



Replacement Parts for Detroit Diesel® Engines

- Engine Index
- Engine Parts Listing

This is a list of our most popular models.

We have parts for other applications not listed in catalog.

Call for availability and pricing.

Arranged by Engine Series					
PAGE	LITER	CID	ENGINE MODEL	CYL	NOTES
DET53-1	1.7	106	2-53 Inline	2	3.875 bore x 4.500 stroke
DET53-2	2.6	159	3-53 Inline	3	3.875 bore x 4.500 stroke
DET53-3	3.5	212	4-53 Inline	4	3.875 bore x 4.500 stroke
DET53-4	5.2	318	6V53	5	3.875 bore x 4.500 stroke
DET53-5	7.0	424	8V53	8	3.875 bore x 4.500 stroke
DET71-1	2.3	142	2-71 Inline	2	4.250 bore x 5.000 stroke
DET71-2	3.5	213	3-71 Inline	3	4.250 bore x 5.000 stroke
DET71-3	4.7	284	4-71 Inline	4	4.250 bore x 5.000 stroke
DET71-4	7.0	426	6-71 Inline	6	4.250 bore x 5.000 stroke
DET71-5	7.0	426	6V71	6	4.250 bore x 5.000 stroke
DET71-6	9.3	568	8V71	8	4.250 bore x 5.000 stroke
DET71-7	14.0	852	12V71	12	4.250 bore x 5.000 stroke
DET71-8	18.6	1136	16V71	16	4.250 bore
DET82-1	8.2	500	8.2L, V8 Fuel Pincher	8	4.252 bore x 4.409 stroke
DET92-1	9.0	552	6V92	6	4.840 bore x 5.000 stroke
DET92-2	12.1	736	8V92	8	4.840 bore x 5.000 stroke
DET92-3	18.0	1104	12V92	12	4.840 bore
DET92-4	24.1	1472	16V92	16	4.840 bore
DET149-1	19.6	1195	8V149	8	5.75 bore x 5.75 stroke
DET149-2	29.4	1792	12V149	12	5.75 bore x 5.75 stroke
DET149-3	39.2	2389	16V149	16	5.75 bore x 5.75 stroke
DET400-1	6.7	408	40 Series	6	4.3005 bore x 4.68 stroke
DET400-2	7.6	466	40 Series	6	4.3005 bore x 5.35 stroke
DET400-3	8.7	530	40 Series	6	4.5866 bore x 5.35 stroke
DET500-1	8.5	519	50 Series	4	130mm bore x 160mm stroke
DET600-1	11.1	677	60 Series	6	130mm bore x 139mm stroke
DET600-2	12.7	774	60 Series	6	130mm bore x 160mm stroke
DET600-3	14.0	855	60 Series	6	133mm bore x 168mm stroke

53 SERIES In-Line Engines

Option Plate Example: 5045 - 5200

5	04	5	5	2	00
53 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	2	2 - Marine	1 - LA	0 - "N" engine	(see below)
	3	3 - Industrial	2 - LB	1 - 2 valve engine	
	4	4 - Power base	3 - LC	2 - 4 valve engine	
		5 - Generator	4 - LD	3 - Turbocharged	
		7 - Automotive	5 - RA		
			6 - RB		
			7 - RC		
			8 - RD		

R (1st letter) Right hand rotation (viewed from front)

L (1st letter) Left hand rotations (viewed from front)

A (2nd letter) Blower on left, exhaust manifold on right (viewed from rear)

B (2nd letter) Blower on left, exhaust manifold on left (viewed from rear)

C (2nd letter) Blower on right, exhaust manifold on left (viewed from rear)

D (2nd letter) Blower on right, exhaust manifold on right (viewed from rear)

Model Number: Last digit odd - Starter is located opposite of blower

Model Number: Last digit odd - Starter is located on same side as blower

53 SERIES Vee Engines

Option Plate Example: 5062 - 7200

5	06	2	7	2	00
53 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	6	2 - Marine	1 - LA	0 - "N" engine	(see below)
	8	3 - Industrial	3 - LC	1 - 2 valve engine	
		4 - Power base	5 - RA	2 - 4 valve engine	
		5 - Generator	7 - RC	3 - Turbocharged	
		7 - Automotive	5 - RA		
		9 - Special	6 - RB		
			7 - RC		
			8 - RD		

R (1st letter) Right hand rotation (viewed from front)

L (1st letter) Left hand rotations (viewed from front)

A (2nd letter) Blower on left, exhaust manifold on right (viewed from rear)

C (2nd letter) Blower on right, exhaust manifold on left (viewed from rear)

Model Number: Last digit odd - Starter is located opposite of blower

Model Number: Last digit odd - Starter is located on same side as blower

<https://truckmanualshub.com/>
71 SERIES ENGINE IDENTIFICATION

71 SERIES In-Line Engines

Option Plate Example: 1063 - 7001

1	06	3	7	0	01
71 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	2	2 - Marine	1 - LA	0 - 4 valve "N" engine	
	3	3 - Industrial	2 - LB	1 - 2 valve engine	
	4	4 - Power base	3 - LC	2 - 4 valve "E" engine	
	6	5 - Generator	4 - LD	3 - Turbocharged	
		7 - Vehicle	5 - RA	5 - Special	
		8 - Special	6 - RB	6 - Turbo Aftercooled	
			7 - RC		
			8 - RD		

- R (1st letter) Right hand rotation (viewed from front)
- L (1st letter) Left hand rotations (viewed from front)
- A (2nd letter) Starter and oil cooler on right (viewed from rear)
- B (2nd letter) Starter and oil cooler on left (viewed from rear)
- C (2nd letter) Starter and oil cooler on left (viewed from rear)
- D (2nd letter) Starter and oil cooler on right (viewed from rear)

71 SERIES Vee Engines

Option Plate Example: 7083 - 7000

7	08	3	7	0	00
71 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	6	2 - Marine	1 - LA	0 - "N" engine	
	8	3 - Industrial	2 - LB	1 - 2 valve engine	
	12	4 - Power base	3 - LC	2 - 4 valve engine	
	16	5 - Generator	4 - LD	3 - Turbocharged	
		7 - Vehicle	5 - RA	4 - Turbo Aftercooled	
		9 - Special	6 - RB	5 - Special	
			7 - RC	7 - Turbo Torque	
			8 - RD	9 - Aftercooled Turbo Torque	

- R (1st letter) Right hand rotation (viewed from front)
- L (1st letter) Left hand rotations (viewed from front)
- A (2nd letter) Starter and oil cooler on right (viewed from rear)
- B (2nd letter) Starter and oil cooler on left (viewed from rear)
- C (2nd letter) Starter and oil cooler on left (viewed from rear)
- D (2nd letter) Starter and oil cooler on right (viewed from rear)

<https://truckmanualshub.com/>
92 SERIES ENGINE IDENTIFICATION

Option Plate Example: 8067 - 8300

8	06	7	8	3	00
92 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	6	2 - Marine	3 - LC	0 - 4 valve	
	8	3 - Industrial	4 - LD	3 - Turbocharged	
	12	4 - Power base	7 - RC	4 - Aftercooled	
	16	5 - Generator	8 - RD	5 - Special	
		7 - Vehicle		7 - Turbo Torque	
		8 - Special		8 - Aftercooled Turbo torque	
				T - Turbo Electronic controls	

- R (1st letter) Right hand rotation (viewed from front)
- L (1st letter) Left hand rotations (viewed from front)
- C (2nd letter) Oil cooler on right, starter on left (viewed from rear)
- D (2nd letter) Oil cooler on right, starter on right (viewed from rear)

<https://truckmanualshub.com/>
149 SERIES ENGINE IDENTIFICATION

Option Plate Example: 9122-7000

9	12	2	7	0	00
149 Series	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
	8	2 - Marine	3 - LC	0 - Non Turbocharged	
	12	3 - Industrial	7 - RC	3 - Turbocharged	
	16				

- R (1st letter) Right hand rotation (viewed from front)
- L (1st letter) Left hand rotations (viewed from front)
- C (2nd letter) Oil cooler on right, starter on left and right (viewed from rear)

<https://truckmanualshub.com/>
8.2L ENGINE IDENTIFICATION

Option Plate Example: RC4087-7300

RC	4	08	7	7	3	00
Rot/Starter	8.2L	# of Cyl	Application	Basic Arrangement	Design Variation	Specific Model #
R - RH		8	2 - Marine	3 - LC	1 - Non Turbocharged	00 - Truck, Industrial
L - LH			3 - Industrial	7 - RC	3 - Turbocharged	00 - Marine starboard
			7 - Vehicle			01 - Marine port
Starter						12 - Fire pump
C - LH						30 - Truck 130HP
D - RH						36 - Truck turbocharged
						40 - Transit Coach
						45 - Truck 130HP
						55 - Truck 2600rpm turbo

R (1st letter) Right hand rotation (viewed from front)

L (1st letter) Left hand rotations (viewed from front)

C (2nd letter) Starter and oil cooler on left (viewed from rear/flywheel end)

D (2nd letter) Starter and oil cooler on right (viewed from rear/flywheel end)

Engines prior to sn 8G27987: Built with standard equipment only, no option label

Engines after sn 8G27987: Option label located behind the water pump

<https://truckmanualshub.com/>
50 SERIES ENGINE IDENTIFICATION

Option Plate Example: 6043GK32

6	04	3	G	K	32
50 Series	# of Cyl	Application	Displacement	Engine Control	Customer Designation
	4	3 - Industrial	G - 8.5L	U - DDEC II	G5 - Gen Set Natural Gas - DDEC IV
		7 - Vehicle	T - 8.5L	K - DDEC III or IV	G8 - Spark ignited Natural Gas S50G
					05 - Gen Set - DDEC III
					26 - "V" Coach
					28 - "T" Coach and Buses
					32 - Underground Mining
					33 - Industrial off-highway
					35 - Gen Set: Non-road certified
					45 - Fire Truck
					50 - Motor Coach
					57 - Crane
					59 - Euro Bus
					60 - On-Highway

<https://truckmanualshub.com/>
60 SERIES ENGINE IDENTIFICATION

Option Plate Example: 6067WT40

6	06	7	W	T	32
50/60 Series	#Cyl	Application	Displacement	Engine Control	Customer Designation
	6	2 - Marine	B - 12.7L Premium	T - DDEC I	9x Military
		3 - Industrial	E - 11.1L	U - DDEC II	28 - Coach/Bus 1991 & up
		5 - Generator	F - 14.0L	K - DDEC III or IV	32 - Underground Mining
		7 - Vehicle	G - 12.7L std	V - DDEC V	33 - Nonroad Certified
			H - 14.0L	G - DDEC VI	35 - Nonroad Certified Genset
			L - 11.1L		40 - 1991 and Earlier
			M - 12.7L std		60 - 1991 and Later On-Highway
			P - 12.7L premium		73 - Watercooled Exhaust C&I
			S - 11.1L super		74 - Watercooled & Offshore
			T - 12.7L std		
			W - 11.1L		2E - EGR Motor Coach
					4E - EGR Fire Truck
					5E - EGR On-Highway Crane
					6E - EGR On-Highway Truck

Detroit Diesel 503x-xxxx		3-53 Inline	https://truckmanualshub.com/ 3-Cylinder Bore 3.875 Stroke 4.500
ENGINE KITS			
1	353IF8899	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1, N injector engines
1	353OF8899	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1, N injector engines
1	353IF8903	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1, S injector engines
1	353OF8903	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1, S injector engines
1	353IF9734	InFrame kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
1	353OF9734	Overhaul kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
CYLINDER KIT			
3	5198899-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5132803 liner] [LCK-8899]
Option: 61, 62, 64, 68, 96, 97, 98, 118, 238, 241			
3	519889910-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5101016 liner] [LCK-8899]
3	519889920-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5149944 liner] [LCK-8899]
3	5198903-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5132803 liner] [LCK-8903]
Option: 25, 26, 27, 29, 35, 60, 83			
3	519890310-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5101016 liner] [LCK-8903]
3	519890320-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5149944 liner] [LCK-8903]
3	5149734-F	Cylinder kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5132803 liner] [LCK-9734]
Option: 204, 206, 207			
3	514973410-F	Cylinder kit	.010 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5101016 liner] [LCK-9734]
3	514973420-F	Cylinder kit	.020 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5149944 liner] [LCK-9734]
3	5149315-F	Cylinder kit	Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5132803 liner] [LCK-9315]
Option: 110, 181, 205			
3	5149315 10-F	Cylinder kit	.010 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5101016 liner] [LCK-9315]
3	5149315 20-F	Cylinder kit	.020 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5149944 liner] [LCK-9315]
3	5198904-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5132803 liner] [LCK-8904]
Option: 53, 56, 65, 66, 77, 236, 249			
3	519890410-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5101016 liner] [LCK-8904]
3	519890420-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5149944 liner] [LCK-8904]
3	5199116-F	Cylinder kit	Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5132803 liner] [LCK-9116]
Option: 63, 67			
3	519911610-F	Cylinder kit	.010 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5101016 liner] [LCK-9116]
3	519911620-F	Cylinder kit	.020 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5149944 liner] [LCK-9116]

Detroit Diesel 503x-xxxx		3-53 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 3.875 Stroke 4.500
3	23503810-F	Cylinder kit	Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926088 liner]
Option: 268			
3	23503810 20-F	Cylinder kit	.020 OS, Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926090 liner]
3	23503778-F	Cylinder kit	Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5132803 liner]
Option: 269, 270			
3	23503778 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5101016 liner]
3	23503778 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5149944 liner]
3	23503811-F	Cylinder kit	Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5132803 liner]
3	23503811 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5101016 liner]
3	23503811 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5149944 liner]
3	LCK-8899-F	Linerless cylinder kit	Cylinder kit 5188899 less liner
3	LCK-8903-F	Linerless cylinder kit	Cylinder kit 5198903 less liner
3	LCK-9734-F	Linerless cylinder kit	Cylinder kit 5149734 less liner
3	LCK-9315-F	Linerless cylinder kit	Cylinder kit 5149315 less liner
3	LCK-8904-F	Linerless cylinder kit	Cylinder kit 5198904 less liner
3	LCK-9116-F	Linerless cylinder kit	Cylinder kit 5199116 less liner
3	5198877-F	Piston kit	Non turbo; 1.38 pin, trunk, 21:1, 4 valve head [513800 piston, 5116181 bushings, 5108131 retainers]
3	5195931-F	Piston	Non turbo; 1.38 pin, trunk, 17:1
3	5198572-F	Piston	Turbo; 1.38 pin, trunk, 17.5:1; drilled pin
3	8920717-F	Piston	Turbo; 1.50 pin, trunk, 18.7:1
3	23503779-F	Piston dome kit	Kit, 18:1 turbo, xhead [23503948 crown, 8924735 pin, 8924736 slipper bearing, 8924731 retainer, 8924733 piston seal]
3	23503948-F	Piston crown	for xhead pistons
3	8924002-F	Piston skirt	for xhead pistons
3	8924736-F	Slipper bearing	for xhead pistons
3	8924733-F	Piston seal	for xhead pistons
3	5116189-F	Piston pin	1.38 diameter, trunk
3	5104651-F	Piston pin	1.38 diameter, drilled, trunk
3	5106902-F	Piston pin	1.50 diameter, drilled, trunk
3	8924735-F	Piston pin	Xhead
6	5108131-F	Retainer piston pin	1.38 diameter, trunk
6	5108175-F	Retainer piston pin	1.50 diameter, trunk
6	8924731-F	Retainer piston pin	Xhead
3	5149942-F	Ring set	Natural, trunk, "N" engines; (1) 8923328, (3) 5116184, (1) 5195933; non-chrome fire, chrome comp
3	5198822-F	Ring set	Natural, trunk, "S" engines; (1) 5103382, (3) 5116184, (1) 5195933; chrome fire, chrome comp
3	5198902-F	Ring set	Natural, trunk, oliver piston; (1) 5103382, (1) 5116184, (2) 5127147, (1) 5195933; chrome fire and top comp; cast comp 3 and 4
3	5149314-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149313; chrome fire and compression
3	5149359-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149378; chrome fire and compression

Detroit Diesel 503x-xxxx		3-53 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 3.875 Stroke 4.500
3	5198901-F	Ring set	Natural, trunk, military; (1) 5103382, (3) 5116184, (1) 5198092; chrome fire and compression
3	8927223-F	Ring set	Turbo, xhead; (1) 8925780, (2) 8925779, (1) 8927224
3	23503780-F	Ring set	Turbo, xhead, military; (1) 23503718, (2) 8925779, (1) 8927224; Fire ring wide gap 0.105 wide, 0.28 min gap
3	23501520-F	Ring set	Natural, trunk, high sulfur; (1) 8923328, (3) 8925779, (2) 5116188, (2) 8925781
3	23501521-F	Ring set	Na/Turbo, trunk high sulfur (1) 5103382, (3) 8925779, (2) 5103765, (2) 5116188, (2) 8925781
3	5132803-F	Cylinder liner	Std, 0.84 port height
3	5101016-F	Cylinder liner	.010 OS, 0.84 port height
3	5149944-F	Cylinder liner	.020 OS, 0.84 port height
3	8926088-F	Cylinder liner	Std, 0.74 port height
3	8926089	Cylinder liner	[Discontinued] .010 OS, 0.74 port height
3	8926090-F	Cylinder liner	.020 OS, 0.74 port height
6	5121256-F	Cylinder liner oring	For Standard and 0.010 OS
6	5149945-F	Cylinder liner oring	For 0.020 OS
3	29610-F	Shim cylinder liner	0.001
3	29611-F	Shim cylinder liner	0.002
BEARINGS			
3	5149452-F	Bearing rod pair	Std
3	5149454-F	Bearing rod pair	0.010
3	5149455-F	Bearing rod pair	0.020
3	5149456-F	Bearing rod pair	0.030
4	8924357-F	Bearing main pair	Std, Non-turbo, non-slotted
4	8924359-F	Bearing main pair	0.010, non-turbo, non-slotted
4	8924360-F	Bearing main pair	0.020, non-turbo, non-slotted
4	8924361-F	Bearing main pair	0.030, non-turbo, non-slotted
4	5149447-F	Bearing main pair	Std, Turbo, slotted
4	5149449-F	Bearing main pair	0.010, turbo, slotted
4	5149450-F	Bearing main pair	0.020, turbo, slotted
4	5149451-F	Bearing main pair	0.030, turbo, slotted
4	5116197-F	Thrust washer	
4	141346-F	Thrust dowel pin	3/16 x 1/2
1	5198209-F	Bearing cam set	
1	5196793-F	Bushing idler gear	
2	5132504-F	Thrust washer idler	
6	5116181-F	Bushing con rod	For non-turbo trunk piston engines
6	2233634-CL	Bushing con rod	For 1.500 pin diameter
GASKET & SEALS			
1	23517623-F	Set overhaul	Does not include: crankshaft seals or silicone valve cover gasket for cast aluminum (8925273)
1	5199811-F	Set cylinder head	Does not include rocker cover gaskets
	G1	UPPER GASKETS	
1	5147994-F	Gasket valve cover	Cork, stamped steel cover
1	8925273-F	Gasket valve cover	Silicone, cast aluminum cover
2	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	23506158-F	Gasket flywheel hsg	Housing to end plate
1	5116354-F	Gasket flywheel hsg	End plate to block

Detroit Diesel 503x-xxxx		3-53 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 3.875 Stroke 4.500
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
1	5121082-F	Gasket front cover	Upper
1	5116386-F	Gasket front cover	Lower
1	5116380-F	Gasket hand hole cvr	
1	5106629-F	Gasket hand hole cover	Turbo engines
	G5	PAN GASKETS	
1	5116256-F	Gasket oil pan	Stamped pan
1	5196059-F	Gasket oil pan	Cast pan
1	5127175-F	Seal oil pickup tube	White stripe
	G3	CRANK SEALS	
1	5116224-F	Seal crankshaft front	Lip type, standard
	5198503-F	Seal crankshaft front	Lip type, oversize
1	5198502-F	Sleeve crankshaft	Front, use with oversize seal
1	5116229-F	Seal crankshaft rear	Single lip, standard
	5196852-F	Seal crankshaft rear	Single lip, oversize
1	5128917-F	Seal crankshaft rear	Double lip, standard, wet flywheel housing
	5199477	Seal crankshaft rear	[Discontinued] Double lip, oversize, wet flywheel housing
1	8926902-F	Seal crankshaft rear	Directional, RH engine rotation
	8924374-F	Seal crankshaft rear	Directional, RH engine rotaion, oversize
1	23516636-F	Sleeve crankshaft seal	Rear, use with oversize seal
CAMSHAFT			
	DETCAM	NOTE	Low lift cams must use low lift valve springs 5147424, High lift cams must use high lift springs 5144019
Cams listed as reference only, refer to specific model and s/n for correct application			
1	5126929-F	Camshaft	High lift (5126745): LA-LD-RB-RC
1	5149091	Camshaft	[Discontinued, check for reman] Low lift (5101271): LA-LD-RB-RC
1	5126930-B	Camshaft	High lift: LB-LC-RA-RD
1	5149093-F	Camshaft	Low lift: LB-LC-RA-RD (5101272)
2	5116198-F	Thrust washer cam	
2	5121071-F	Spacer cam	Thru s/n: 3D44069, 4D48900, 6D41029
Thru s/n: 3D44069			
2	5106360-F	Spacer cam	Above s/n: 3D44070, 4D48901, 6D41030
	DETHD3	NOTE	Following parts and quantities are for four valve head
9	5128640-F	Push rod	
9	5151601-F	Push rod nut	5/16 - 24, lock
9	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
s/n 3D6128 & up			
9	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
9	8923814-F	Follower roller set	Includes: roller, bushing, pin
3	5135267-F	Rocker arm	Valve, left
3	5135268-F	Rocker arm	Valve, right
3	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
3	5116072-F	Rocker shaft	
VALVE TRAIN			
1	5197947	Cylinder head	Remanufactured, 2 valve head
1	5198203B	Cylinder head	Remanufactured, 4 valve head, bare
1	5109803C	Cylinder head	Remanufactured, 4 valve head, complete
1	5149425C	Cylinder head	Remanufactured, 4 valve turbo, complete
	DETHD1	NOTE	Following parts and quantities are for four valve head
12	5199323-F	Valve exhaust	Non-turbo; kit with locks
12	5197176-F	Valve exhaust	Turbo; kit with locks
24	5116341-F	Valve lock	
12	5144019-F	Valve spring	High-lift, .135 wire diameter

Detroit Diesel 503x-xxxx		3-53 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 3.875 Stroke 4.500
12	5147424-F	Valve spring	Low-lift, .148 wire diameter
12	5123330-F	Valve spring cap	
12	5111467-F	Valve spring seat	
12	5131961-F	Valve guide	
12	5198529-F	Valve guide	Kit: contains guide and seal
12	8921741-F	Valve stem seal	Metal with teflon lip
12	8921501-F	Valve insert	Non turbo
12	8921502-F	Valve insert	Turbo
CRANKSHAFT			
1	8926897	Crankshaft	[Discontinued, check for reground]
CONNECTING ROD			
6	5197852-F	Bolt connecting rod	3/8 - 24 x 2.76
6	839103-F	Nut connecting rod	3/8 - 24
3	5150140-F	Nozzle connecting rod	Spray
6	8924734	Bolt connecting rod	[Discontinued] For xhead connecting rod to piston pin, 3/8-14 x 1.88
6	8924732-F	Spacer pin bolt	For xhead connecting rod to piston pin bolt
OIL / LUBE SYSTEM			
	8547548-F	Oil cooler core	6 plate
	8547563-F	Oil cooler core	8 plate
	8547581-F	Oil cooler core	13 plate, single stack
FUEL / INJECTOR			
3	5228950R-P	Injector	S40, remanufactured
3	5228580R-P	Injector reman	S45 INJ
3	5229595R-P	Injector reman	
3	5228763R-P	Injector reman	
3	5228773R-P	Injector reman	
3	5228783R-P	Injector reman	
3	5229340R-P	Injector	C40, remanufactured
3	5229345R-P	Injector reman	
3	5229350R-P	Injector reman	
3	5229920R-P	Injector reman	
3	5229676R-P	Injector reman	
3	5229666R-P	Injector reman	
3	8925981-F	Injector tube kit	Copper, pre-reamed with seal
6	8926992-F	Fuel connector	Flared type
6	8925644-F	Fuel connector washer	
6	23511852-F	Fuel jumper line	Flared type
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5154216-F	Fuel pump drive	Coupling
	5110760-B	Primer hand pump	
	5129705-F	Hose fuel linkage	7/8 ID x .75 Length
	5129706-F	Hose fuel linkage	7/8 ID x 1.62 Length
1	5122742-F	Gasket governor ctrl	mechanical governor
COOLING SYSTEM			
1	WP1388-PR	Water pump	Remanufactured; Left hand outlet, 2 threaded ports, cast 5144688 [5144685, 23506003]
1	WP1388A-PR	Water pump	Remanufactured; Left hand outlet, 1 threaded port, cast 5119280 [5109551]
1	WP1387-PR	Water pump	Remanufactured; Right hand outlet, 2 threaded ports, cast 5144889 [5144686, 23506007]
1	WP1387A-PR	Water pump	Remanufactured; Right hand outlet, 1 threaded port, cast 5119281 [5109046]
1	5133107-F	Water pump mtg gsk	

Detroit Diesel 503x-xxxx		3-53 Inline (Continued)	https://trackmanualshub.com/ 3 rd Cylinder Bore 3.875 Stroke 4.500
1	23506248-F	Water pump seal	Unitized
1	904827-F	Water pump shaft	Shaft and bearing
1	23506863-F	Water pump kit	LH pump, old style
1	23506864-F	Water pump kit	RH pump, old style
1	23506869-F	Water pump kit	LH pump, current style - unitized seal
1	23506865-F	Water pump kit	RH pump, current style - unitized seal
1	8927465-F	Thermostat	170F, with vent hole
1	8927466-F	Thermostat	180F, no vent hole
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	5116205-F	Gasket manifold exhaust	
1	5103394	Gasket turbo mtg	[Discontinued] T04 turbo
1	5138977	Gasket turbo drain	[Discontinued] T04 turbo
	5170468-F	Gasket turbo drain	TV turbo
BLOCK			
3	5135547-F	Sleeve cylinder block	0.434 dia
3	5135548-F	Insert cylinder block	0.800 dia
3	5135662-F	Sleeve cylinder block	0.299 dia
3	5135663-F	Insert cylinder block	0.455 dia
MISC			
1	5198041-F	Blower installation kit	
1	5196053-F	Gasket blower inlet	With screen
1	5198683-F	Blower repair kit	
4	5199366-F	Blower seal	Oversize
4	5199368-F	Blower sleeve	Use with O/S seal

Detroit Diesel 504x-xxxx		4-53 Inline	https://trackmanualshub.com/ 4 Cylinder Bore 3.875 Stroke 4.500
ENGINE KITS			
1	453IF8899	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1
1	453OF8899	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1
1	453IF8903	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1
1	453OF8903	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1
1	453IF9734	InFrame kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
1	453OF9734	Overhaul kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
CYLINDER KIT			
4	5198899-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5132803 liner] [LCK-8899]
Option: 61, 62, 64, 68, 96, 97, 98, 118, 238, 241			
4	519889910-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5101016 liner] [LCK-8899]
4	519889920-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5149944 liner] [LCK-8899]
4	5198903-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5132803 liner] [LCK-8903]
Option: 25, 26, 27, 29, 35, 60, 83			
4	519890310-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5101016 liner] [LCK-8903]
4	519890320-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5149944 liner] [LCK-8903]
4	5149734-F	Cylinder kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5132803 liner] [LCK-9734]
Option: 204, 206, 207			
4	514973410-F	Cylinder kit	.010 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5101016 liner] [LCK-9734]
4	514973420-F	Cylinder kit	.020 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5149944 liner] [LCK-9734]
4	5149315-F	Cylinder kit	Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5132803 liner] [LCK-9315]
Option: 110, 181, 205			
4	5149315 10-F	Cylinder kit	.010 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5101016 liner] [LCK-9315]
4	5149315 20-F	Cylinder kit	.020 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5149944 liner] [LCK-9315]
4	5198904-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5132803 liner] [LCK-8904]
Option: 53, 56, 65, 66, 77, 236, 249			
4	519890410-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5101016 liner] [LCK-8904]
4	519890420-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5149944 liner] [LCK-8904]
4	5199116-F	Cylinder kit	Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5132803 liner] [LCK-9116]
Option: 63, 67			
4	519911610-F	Cylinder kit	.010 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5101016 liner] [LCK-9116]
4	519911620-F	Cylinder kit	.020 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5149944 liner] [LCK-9116]

Detroit Diesel 504x-xxxx		4-53 Inline (Continued)	https://trackmanualshub.com/ 4 Cylinder Bore 3.875 Stroke 4.500
4	23503810-F	Cylinder kit	Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926088 liner]
Option: 268			
4	23503810 20-F	Cylinder kit	.020 OS, Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926090 liner]
4	23503778-F	Cylinder kit	Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5132803 liner]
Option: 269, 270			
4	23503778 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5101016 liner]
4	23503778 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5149944 liner]
4	23503811-F	Cylinder kit	Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5132803 liner]
4	23503811 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5101016 liner]
4	23503811 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5149944 liner]
4	LCK-8899-F	Linerless cylinder kit	Cylinder kit 5188899 less liner
4	LCK-8903-F	Linerless cylinder kit	Cylinder kit 5198903 less liner
4	LCK-9734-F	Linerless cylinder kit	Cylinder kit 5149734 less liner
4	LCK-9315-F	Linerless cylinder kit	Cylinder kit 5149315 less liner
4	LCK-8904-F	Linerless cylinder kit	Cylinder kit 5198904 less liner
4	LCK-9116-F	Linerless cylinder kit	Cylinder kit 5199116 less liner
4	5198877-F	Piston kit	Non turbo; 1.38 pin, trunk, 21:1, 4 valve head [513800 piston, 5116181 bushings, 5108131 retainers]
4	5195931-F	Piston	Non turbo; 1.38 pin, trunk, 17:1
4	5198572-F	Piston	Turbo; 1.38 pin, trunk, 17.5:1; drilled pin
4	8920717-F	Piston	Turbo; 1.50 pin, trunk, 18.7:1
4	23503779-F	Piston dome kit	Kit, 18:1 turbo, xhead [23503948 crown, 8924735 pin, 8924736 slipper bearing, 8924731 retainer, 8924733 piston seal]
4	23503948-F	Piston crown	for xhead pistons
4	8924002-F	Piston skirt	for xhead pistons
4	8924736-F	Slipper bearing	for xhead pistons
4	8924733-F	Piston seal	for xhead pistons
4	5116189-F	Piston pin	1.38 diameter, trunk
4	5104651-F	Piston pin	1.38 diameter, drilled, trunk
4	5106902-F	Piston pin	1.50 diameter, drilled, trunk
4	8924735-F	Piston pin	Xhead
8	5108131-F	Retainer piston pin	1.38 diameter, trunk
8	5108175-F	Retainer piston pin	1.50 diameter, trunk
8	8924731-F	Retainer piston pin	Xhead
4	5149942-F	Ring set	Natural, trunk, "N" engines; (1) 8923328, (3) 5116184, (1) 5195933; non-chrome fire, chrome comp
4	5198822-F	Ring set	Natural, trunk, "S" engines; (1) 5103382, (3) 5116184, (1) 5195933; chrome fire, chrome comp
4	5198902-F	Ring set	Natural, trunk, oliver piston; (1) 5103382, (1) 5116184, (2) 5127147, (1) 5195933; chrome fire and top comp; cast comp 3 and 4
4	5149314-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149313; chrome fire and compression
4	5149359-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149378; chrome fire and compression

Detroit Diesel 504x-xxxx		4-53 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 3.875 Stroke 4.500
4	5198901-F	Ring set	Natural, trunk, military; (1) 5103382, (3) 5116184, (1) 5198092; chrome fire and compression
4	8927223-F	Ring set	Turbo, xhead; (1) 8925780, (2) 8925779, (1) 8927224
4	23503780-F	Ring set	Turbo, xhead, military; (1) 23503718, (2) 8925779, (1) 8927224; Fire ring wide gap 0.105 wide, 0.28 min gap
4	23501520-F	Ring set	Natural, trunk, high sulfur; (1) 8923328, (3) 8925779, (2) 5116188, (2) 8925781
4	23501521-F	Ring set	Na/Turbo, trunk high sulfur (1) 5103382, (3) 8925779, (2) 5103765, (2) 5116188, (2) 8925781
4	5132803-F	Cylinder liner	Std, 0.84 port height
4	5101016-F	Cylinder liner	.010 OS, 0.84 port height
4	5149944-F	Cylinder liner	.020 OS, 0.84 port height
4	8926088-F	Cylinder liner	Std, 0.74 port height
4	8926089	Cylinder liner	[Discontinued] .010 OS, 0.74 port height
4	8926090-F	Cylinder liner	.020 OS, 0.74 port height
8	5121256-F	Cylinder liner oring	For Standard and 0.010 OS
8	5149945-F	Cylinder liner oring	For 0.020 OS
4	29610-F	Shim cylinder liner	0.001
4	29611-F	Shim cylinder liner	0.002
BEARINGS			
4	5149452-F	Bearing rod pair	Std
4	5149454-F	Bearing rod pair	0.010
4	5149455-F	Bearing rod pair	0.020
4	5149456-F	Bearing rod pair	0.030
5	8924357-F	Bearing main pair	Std, Non-turbo, non-slotted
5	8924359-F	Bearing main pair	0.010, non-turbo, non-slotted
5	8924360-F	Bearing main pair	0.020, non-turbo, non-slotted
5	8924361-F	Bearing main pair	0.030, non-turbo, non-slotted
5	5149447-F	Bearing main pair	Std, Turbo, slotted
5	5149449-F	Bearing main pair	0.010, turbo, slotted
5	5149450-F	Bearing main pair	0.020, turbo, slotted
5	5149451-F	Bearing main pair	0.030, turbo, slotted
4	5116197-F	Thrust washer	
4	141346-F	Thrust dowel pin	3/16 x 1/2
1	5198984-F	Bearing cam set	
1	5196793-F	Bushing idler gear	
2	5132504-F	Thrust washer idler	
8	5116181-F	Bushing con rod	For non-turbo trunk piston engines
8	2233634-CL	Bushing con rod	For 1.500 pin diameter
GASKET & SEALS			
1	23517624-F	Set overhaul	Does not include: crankshaft seals or silicone valve cover gasket for cast aluminum (8925274)
1	5199812-F	Set cylinder head	Does not include silicone valve cover gasket for cast aluminum (8925274)
G1 UPPER GASKETS			
1	5147506-F	Gasket valve cover	Cork, stamped steel cover
1	8925274-F	Gasket valve cover	Silicone, cast aluminum cover
2	5104515-F	Isolator valve cover	For cast aluminum cover
G4 LOWER GASKETS			
1	23506158-F	Gasket flywheel hsg	Housing to end plate
1	5116354-F	Gasket flywheel hsg	End plate to block

Detroit Diesel 504x-xxxx		4-53 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 3.875 Stroke 4.500
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
1	5121082-F	Gasket front cover	Upper
1	5116386-F	Gasket front cover	Lower
1	5116381-F	Gasket hand hole cvr	
	G5	PAN GASKETS	
1	5116257-F	Gasket oil pan	Stamped pan
1	5196060-F	Gasket oil pan	Cast pan
1	5127175-F	Seal oil pickup tube	White stripe
	G3	CRANK SEALS	
1	5116224-F	Seal crankshaft front	Lip type, standard
	5198503-F	Seal crankshaft front	Lip type, oversize
	5138796-F	Seal crankshaft front	Lip type, standard, military 2.87" OD
1	5198502-F	Sleeve crankshaft	Front, use with oversize seal
1	5116229-F	Seal crankshaft rear	Single lip, standard
	5196852-F	Seal crankshaft rear	Single lip, oversize
1	5128917-F	Seal crankshaft rear	Double lip, standard, wet flywheel housing
	5199477	Seal crankshaft rear	[Discontinued] Double lip, oversize, wet flywheel housing
1	8926902-F	Seal crankshaft rear	Directional, RH engine rotation
	8924374-F	Seal crankshaft rear	Directional, RH engine rotaion, oversize
1	23516636-F	Sleeve crankshaft seal	Rear, use with oversize seal
CAMSHAFT			
	DETCAM	NOTE	Low lift cams must use low lift valve springs 5147424, High lift cams must use high lift springs 5144019
Cams listed as reference only, refer to specific model and s/n for correct application			
1	5126932-F	Camshaft	High lift (5126748): RA-RB-RC-RD
1	5149095-F	Camshaft	Low lift (5101273): RA-RB-RC-RD
1	5126931-B	Camshaft	High lift: LA-LB-LC-LD
1	5149097	Camshaft	[Discontinued, check for reman] Low lift: LA-LB-LC-LD (5102724)
2	5116198-F	Thrust washer cam	
2	5121071-F	Spacer cam	Thru s/n: 3D44069, 4D48900, 6D41029
Thru s/n: 4D48900			
2	5106360-F	Spacer cam	Above s/n: 3D44070, 4D48901, 6D41030
	DETHD3	NOTE	Following parts and quantities are for four valve head
12	5128640-F	Push rod	
12	5151601-F	Push rod nut	5/16 - 24, lock
12	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
s/n 4D8549 & up			
12	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
12	8923814-F	Follower roller set	Includes: roller, bushing, pin
4	5135267-F	Rocker arm	Valve, left
4	5135268-F	Rocker arm	Valve, right
4	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
4	5116072-F	Rocker shaft	
VALVE TRAIN			
1	5198204B	Cylinder head	Remanufactured, 2 valve head, bare
1	5198204C	Cylinder head	Remanufactured, 2 valve head, complete
1	5198202B	Cylinder head	Remanufactured, 4 valve head, bare (also 8V53)
1	22-4-53-4V	Cylinder head	Remanufactured complete, 4-valve [Assy: 5198202; Cast: 5134294]
	DETHD1	NOTE	Following parts and quantities are for four valve head
16	5199323-F	Valve exhaust	Non-turbo; kit with locks
16	5197176-F	Valve exhaust	Turbo; kit with locks
32	5116341-F	Valve lock	
16	5144019-F	Valve spring	High-lift, .135 wire diameter

Detroit Diesel 504x-xxxx		4-53 Inline (Continued)	https://trackmanualshub.com/ 4 Cylinder Bore 3.875 Stroke 4.500
16	5147424-F	Valve spring	Low-lift, .148 wire diameter
16	5123330-F	Valve spring cap	
16	5111467-F	Valve spring seat	
16	5131961-F	Valve guide	
16	5198529-F	Valve guide	Kit: contains guide and seal
16	8921741-F	Valve stem seal	Metal with teflon lip
16	8921501-F	Valve insert	Non turbo
16	8921502-F	Valve insert	Turbo
CRANKSHAFT			
1	8926898	Crankshaft	[Discontinued, check for reground]
CONNECTING ROD			
8	5197852-F	Bolt connecting rod	3/8 - 24 x 2.76
8	839103-F	Nut connecting rod	3/8 - 24
4	5150140-F	Nozzle connecting rod	Spray
8	8924734	Bolt connecting rod	[Discontinued] For xhead connecting rod to piston pin, 3/8-14 x 1.88
8	8924732-F	Spacer pin bolt	For xhead connecting rod to piston pin bolt
OIL / LUBE SYSTEM			
	8547563-F	Oil cooler core	8 plate
	8547581-F	Oil cooler core	13 plate, single stack
FUEL / INJECTOR			
4	5228950R-P	Injector	S40, remanufactured
4	5228580R-P	Injector reman	S45 INJ
4	5229595R-P	Injector reman	
4	5228763R-P	Injector reman	
4	5228773R-P	Injector reman	
4	5228783R-P	Injector reman	
4	5229340R-P	Injector	C40, remanufactured
4	5229345R-P	Injector reman	
4	5229350R-P	Injector reman	
4	5229920R-P	Injector reman	
4	5229676R-P	Injector reman	
4	5229666R-P	Injector reman	
4	8925981-F	Injector tube kit	Copper, pre-reamed with seal
8	8926992-F	Fuel connector	Flared type
8	8925644-F	Fuel connector washer	
8	23511852-F	Fuel jumper line	Flared type
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5154216-F	Fuel pump drive	Coupling
	5110760-B	Primer hand pump	
	5129705-F	Hose fuel linkage	7/8 ID x .75 Length
	5129706-F	Hose fuel linkage	7/8 ID x 1.62 Length
1	5122742-F	Gasket governor ctrl	mechanical governor
COOLING SYSTEM			
1	WP1388-PR	Water pump	Remanufactured; Left hand outlet, 2 threaded ports, cast 5144688 [5144685, 23506003]
1	WP1388A-PR	Water pump	Remanufactured; Left hand outlet, 1 threaded port, cast 5119280 [5109551]
1	WP1387-PR	Water pump	Remanufactured; Right hand outlet, 2 threaded ports, cast 5144889 [5144686, 23506007]
1	WP1387A-PR	Water pump	Remanufactured; Right hand outlet, 1 threaded port, cast 5119281 [5109046]
1	5133107-F	Water pump mtg gsk	
1	23506248-F	Water pump seal	Unitized

Detroit Diesel 504x-xxxx		4-53 Inline (Continued)	https://trackmanualshub.com/ 4 Cylinder Bore 3.875 Stroke 4.500
1	904827-F	Water pump shaft	Shaft and bearing
1	23506863-F	Water pump kit	LH pump, old style
1	23506864-F	Water pump kit	RH pump, old style
1	23506869-F	Water pump kit	LH pump, current style - unitized seal
1	23506865-F	Water pump kit	RH pump, current style - unitized seal
1	8927465-F	Thermostat	170F, with vent hole
1	8927466-F	Thermostat	180F, no vent hole
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	5119006-F	Gasket manifold exhaust	
1	5103394	Gasket turbo mtg	[Discontinued] T04 turbo
1	5138977	Gasket turbo drain	[Discontinued] T04 turbo
	5170468-F	Gasket turbo drain	TV turbo
BLOCK			
4	5135547-F	Sleeve cylinder block	0.434 dia
4	5135548-F	Insert cylinder block	0.800 dia
4	5135662-F	Sleeve cylinder block	0.299 dia
4	5135663-F	Insert cylinder block	0.455 dia
MISC			
1	5196054-F	Gasket blower inlet	With screen
1	5198683-F	Blower repair kit	
4	5199366-F	Blower seal	Oversize
4	5199368-F	Blower sleeve	Use with O/S seal
1	8922969-F	Drive coupling assy	
1	8922967-F	Blower drive shaft	6.43 length
1	5198042-F	Blower installation kit	

Detroit 6V53		https://truckmanualshub.com/	
Diesel		5-Cylinder	
506x-xxxx		Bore 3.875	
		Stroke 4.500	
ENGINE KITS			
1	6V53IF8899	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1
1	6V53OF8899	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1
1	6V53IF8903	InFrame kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1
1	6V53OF8903	Overhaul kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1
1	6V53IF9734	InFrame kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
1	6V53OF9734	Overhaul kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1
CYLINDER KIT			
6	5198899-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5132803 liner] [LCK-8899]
Option: 61, 62, 64, 68, 96, 97, 98, 118, 238, 241			
6	519889910-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5101016 liner] [LCK-8899]
6	519889920-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1, "N" injector engines [5198877 piston, 5149942 rings, 5116189 pin, 5149944 liner] [LCK-8899]
6	5198903-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5132803 liner] [LCK-8903]
Option: 25, 26, 27, 29, 35, 60, 83			
6	519890310-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5101016 liner] [LCK-8903]
6	519890320-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 17:1, "S" injector engines [5195931 piston, 5198822 rings, 5116189 pin, 5149944 liner] [LCK-8903]
6	5149734-F	Cylinder kit	Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5132803 liner] [LCK-9734]
Option: 204, 206, 207			
6	514973410-F	Cylinder kit	.010 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5101016 liner] [LCK-9734]
6	514973420-F	Cylinder kit	.020 OS, Turbo; 1.50 pin, .84 port, trunk, 18.7:1 [8920717 piston, 5149359 rings, 5106902 pin, 5149944 liner] [LCK-9734]
6	5149315-F	Cylinder kit	Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5132803 liner] [LCK-9315]
Option: 110, 181, 205			
6	5149315 10-F	Cylinder kit	.010 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5101016 liner] [LCK-9315]
6	5149315 20-F	Cylinder kit	.020 OS, Turbo; 1.38 pin drilled, .84 port, trunk, 17.5:1 [5198572 piston, 5149314 rings, 5104651 pin, 5149944 liner] [LCK-9315]
6	5198904-F	Cylinder kit	Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5132803 liner] [LCK-8904]
Option: 53, 56, 65, 66, 77, 236, 249			
6	519890410-F	Cylinder kit	.010 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5101016 liner] [LCK-8904]
6	519890420-F	Cylinder kit	.020 OS, Non turbo; 1.38 pin, .84 port, trunk, 21:1 [5198877 piston, 5198902 rings, 5116189 pin, 5149944 liner] [LCK-8904]
6	5199116-F	Cylinder kit	Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5132803 liner] [LCK-9116]
Option: 63, 67			
6	519911610-F	Cylinder kit	.010 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5101016 liner] [LCK-9116]
6	519911620-F	Cylinder kit	.020 OS, Non turbo, 1.38 pin, .84 port, trunk, 21:1; military [5198877 piston, 5198901 rings, 5116189 pin, 5149944 liner] [LCK-9116]

Detroit Diesel 506x-xxxx		6V53 (Continued)	https://trackmanualshub.com/ 5" Cylinder Bore 3.875 Stroke 4.500
6	23503810-F	Cylinder kit	Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926088 liner]
Option: 268			
6	23503810 20-F	Cylinder kit	.020 OS, Turbo; .74 port, xhead, 18:1; industrial [23503779 dome kit, 8924002 skirt, 8927233 rings, 8926090 liner]
6	23503778-F	Cylinder kit	Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5132803 liner]
Option: 269, 270			
6	23503778 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5101016 liner]
6	23503778 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1; military [23503779 dome kit, 8924002 skirt, 23503780 rings, 5149944 liner]
6	23503811-F	Cylinder kit	Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5132803 liner]
6	23503811 10-F	Cylinder kit	.010 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5101016 liner]
6	23503811 20-F	Cylinder kit	.020 OS, Turbo, .84 port, xhead, 18:1 [23503779 dome kit, 8924002 skirt, 8927233 rings, 5149944 liner]
6	LCK-8899-F	Linerless cylinder kit	Cylinder kit 5188899 less liner
6	LCK-8903-F	Linerless cylinder kit	Cylinder kit 5198903 less liner
6	LCK-9734-F	Linerless cylinder kit	Cylinder kit 5149734 less liner
6	LCK-9315-F	Linerless cylinder kit	Cylinder kit 5149315 less liner
6	LCK-8904-F	Linerless cylinder kit	Cylinder kit 5198904 less liner
6	LCK-9116-F	Linerless cylinder kit	Cylinder kit 5199116 less liner
6	5198877-F	Piston kit	Non turbo; 1.38 pin, trunk, 21:1, 4 valve head [513800 piston, 5116181 bushings, 5108131 retainers]
6	5195931-F	Piston	Non turbo; 1.38 pin, trunk, 17:1
6	5198572-F	Piston	Turbo; 1.38 pin, trunk, 17.5:1; drilled pin
6	8920717-F	Piston	Turbo; 1.50 pin, trunk, 18.7:1
6	23503779-F	Piston dome kit	Kit, 18:1 turbo, xhead [23503948 crown, 8924735 pin, 8924736 slipper bearing, 8924731 retainer, 8924733 piston seal]
6	23503948-F	Piston crown	for xhead pistons
6	8924002-F	Piston skirt	for xhead pistons
6	8924736-F	Slipper bearing	for xhead pistons
6	8924733-F	Piston seal	for xhead pistons
6	5116189-F	Piston pin	1.38 diameter, trunk
6	5104651-F	Piston pin	1.38 diameter, drilled, trunk
6	5106902-F	Piston pin	1.50 diameter, drilled, trunk
6	8924735-F	Piston pin	Xhead
12	5108131-F	Retainer piston pin	1.38 diameter, trunk
12	5108175-F	Retainer piston pin	1.50 diameter, trunk
12	8924731-F	Retainer piston pin	Xhead
6	5149942-F	Ring set	Natural, trunk, "N" engines; (1) 8923328, (3) 5116184, (1) 5195933; non-chrome fire, chrome comp
6	5198822-F	Ring set	Natural, trunk, "S" engines; (1) 5103382, (3) 5116184, (1) 5195933; chrome fire, chrome comp
6	5198902-F	Ring set	Natural, trunk, oliver piston; (1) 5103382, (1) 5116184, (2) 5127147, (1) 5195933; chrome fire and top comp; cast comp 3 and 4
6	5149314-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149313; chrome fire and compression
6	5149359-F	Ring set	Turbo, trunk; (1) 5103382, (3) 5116184, (1) 5149378; chrome fire and compression

Detroit Diesel 506x-xxxx		6V53 (Continued)	https://truckmanualshub.com/ 5-Cylinder Bore 3.875 Stroke 4.500
6	5198901-F	Ring set	Natural, trunk, military; (1) 5103382, (3) 5116184, (1) 5198092; chrome fire and compression
6	8927223-F	Ring set	Turbo, xhead; (1) 8925780, (2) 8925779, (1) 8927224
6	23503780-F	Ring set	Turbo, xhead, military; (1) 23503718, (2) 8925779, (1) 8927224; Fire ring wide gap 0.105 wide, 0.28 min gap
6	23501520-F	Ring set	Natural, trunk, high sulfur; (1) 8923328, (3) 8925779, (2) 5116188, (2) 8925781
6	23501521-F	Ring set	Na/Turbo, trunk high sulfur (1) 5103382, (3) 8925779, (2) 5103765, (2) 5116188, (2) 8925781
6	5132803-F	Cylinder liner	Std, 0.84 port height
6	5101016-F	Cylinder liner	.010 OS, 0.84 port height
6	5149944-F	Cylinder liner	.020 OS, 0.84 port height
6	8926088-F	Cylinder liner	Std, 0.74 port height
6	8926089	Cylinder liner	[Discontinued] .010 OS, 0.74 port height
6	8926090-F	Cylinder liner	.020 OS, 0.74 port height
12	5121256-F	Cylinder liner oring	For Standard and 0.010 OS
12	5149945-F	Cylinder liner oring	For 0.020 OS
6	29610-F	Shim cylinder liner	0.001
6	29611-F	Shim cylinder liner	0.002
BEARINGS			
6	5197975-F	Bearing rod pair	Std
6	5197977-F	Bearing rod pair	0.010
6	5197978-F	Bearing rod pair	0.020
6	5197979-F	Bearing rod pair	0.030
4	5195927-F	Bearing main pair	Std; sn up to 6D17959
4	5196685-F	Bearing main pair	0.010; sn up to 6D17959
4	5196686-F	Bearing main pair	0.020; sn up to 6D17959
4	5196687-F	Bearing main pair	0.030; sn up to 6D17959
4	5198410-F	Bearing main pair	Std, 7 hole; sn 6D17960 and up
4	5198412-F	Bearing main pair	0.010, 7 hole; sn 6D17960 and up
4	5198413-F	Bearing main pair	0.020, 7 hole; sn 6D17960 and up
4	5198414-F	Bearing main pair	0.030, 7 hole; sn 6D17960 and up
4	5159353-F	Thrust washer	Std
4	141346-F	Thrust dowel pin	3/16 x 1/2
1	5197944-F	Bearing cam set	
1	5196793-F	Bushing idler gear	
2	5132504-F	Thrust washer idler	
12	5116181-F	Bushing con rod	For non-turbo trunk piston engines
12	2233634-CL	Bushing con rod	For 1.500 pin diameter
GASKET & SEALS			
1	23512690-F	Set overhaul	Does not include: crankshaft seals or silicone valve cover gasket for cast aluminum (8925274)
2	5199811-F	Set cylinder head	Does not include rocker cover gaskets
G1 UPPER GASKETS			
2	5147994-F	Gasket valve cover	Cork, stamped steel cover
2	8925273-F	Gasket valve cover	Silicone, cast aluminum cover
2	5104515-F	Isolator valve cover	For cast aluminum cover
G4 LOWER GASKETS			
1	5137470-F	Gasket flywheel hsg	Housing to end plate
1	5133397-F	Gasket flywheel hsg	End plate to block

Detroit Diesel 506x-xxxx		6V53 (Continued)	https://trackmanualshub.com/ 5-Cylinder Bore 3.875 Stroke 4.500
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
1	5124055-F	Gasket front cover	Upper
1	5119368-F	Gasket front cover	Lower
4	5132117-F	Gasket hand hole cvr	
4	23505525-F	Gasket hand hole cvr	Hand hole cover bolt, 3/8 copper
	G5	PAN GASKETS	
1	5119266-F	Gasket oil pan	Stamped pan
1	5196061-F	Gasket oil pan	Cast pan
1	5126473-F	Gasket oil pickup	
	G3	CRANK SEALS	
1	5116224-F	Seal crankshaft front	Lip type, standard
	5198503-F	Seal crankshaft front	Lip type, oversize
1	5138796-F	Seal crankshaft front	Lip type, standard, military 2.87" OD
1	5198502-F	Sleeve crankshaft	Front, use with oversize seal
1	5116229-F	Seal crankshaft rear	Single lip, standard
	5196852-F	Seal crankshaft rear	Single lip, oversize
1	5128917-F	Seal crankshaft rear	Double lip, standard, wet flywheel housing
	5199477	Seal crankshaft rear	[Discontinued] Double lip, oversize, wet flywheel housing
1	8926902-F	Seal crankshaft rear	Directional, RH engine rotation
	8924374-F	Seal crankshaft rear	Directional, RH engine rotaion, oversize
1	23516636-F	Sleeve crankshaft seal	Rear, use with oversize seal
CAMSHAFT			
	DETCAM	NOTE	Low lift cams must use low lift valve springs 5147424, High lift cams must use high lift springs 5144019
Cams listed as reference only, refer to specific model and s/n for correct application			
1	5126933-B	Camshaft	High lift (5126833): LB/RH, RB/LH
1	5199396	Camshaft	[Discontinued, check for reman] Low lift (5145175): LB/RH, RB/LH
1	5126934-F	Camshaft	High lift (5126834): RB/RH, LB/LH
1	5199397	Camshaft	[Discontinued, check for reman] Low lift (5199397): RB/RH, LB/LH
2	5116198-F	Thrust washer cam	
2	5121071-F	Spacer cam	Thru s/n: 3D44069, 4D48900, 6D41029
Thru s/n: 6D41029			
2	5106360-F	Spacer cam	Above s/n: 3D44070, 4D48901, 6D41030
	DETHD3	NOTE	Following parts and quantities are for four valve head
18	5128640-F	Push rod	
18	5151601-F	Push rod nut	5/16 - 24, lock
18	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
s/n 6D2709 & up			
18	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
18	8923814-F	Follower roller set	Includes: roller, bushing, pin
6	5135267-F	Rocker arm	Valve, left
6	5135268-F	Rocker arm	Valve, right
6	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
6	5116072-F	Rocker shaft	
VALVE TRAIN			
2	5198203B	Cylinder head	Remanufactured, 4 valve head, bare
2	5109803C	Cylinder head	Remanufactured, 4 valve head, complete
2	5149425C	Cylinder head	Remanufactured, 4 valve turbo, complete
	DETHD1	NOTE	Following parts and quantities are for four valve head
24	5199323-F	Valve exhaust	Non-turbo; kit with locks
24	5197176-F	Valve exhaust	Turbo; kit with locks
48	5116341-F	Valve lock	
24	5144019-F	Valve spring	High-lift, .135 wire diameter

Detroit Diesel 506x-xxxx		6V53 (Continued)	https://trackmanualshub.com/ 5-Cylinder Bore 3.875 Stroke 4.500
24	5147424-F	Valve spring	Low-lift, .148 wire diameter
24	5123330-F	Valve spring cap	
24	5111467-F	Valve spring seat	
24	5131961-F	Valve guide	
24	5198529-F	Valve guide	Kit: contains guide and seal
24	8921741-F	Valve stem seal	Metal with teflon lip
24	8921501-F	Valve insert	Non turbo
24	8921502-F	Valve insert	Turbo
CRANKSHAFT			
1	5144616-Q	Crankshaft	
CONNECTING ROD			
12	5197852-F	Bolt connecting rod	3/8 - 24 x 2.76
12	839103-F	Nut connecting rod	3/8 - 24
6	5150140-F	Nozzle connecting rod	Spray
12	8924734	Bolt connecting rod	[Discontinued] For xhead connecting rod to piston pin, 3/8-14 x 1.88
12	8924732-F	Spacer pin bolt	For xhead connecting rod to piston pin bolt
OIL / LUBE SYSTEM			
	8547581-F	Oil cooler core	13 plate, single stack
	8547547-F	Oil cooler core	16 plate, single stack
	8547195-F	Oil cooler core	18 plate, single stack
FUEL / INJECTOR			
6	5228950R-P	Injector	S40, remanufactured
6	5228580R-P	Injector reman	S45 INJ
6	5229595R-P	Injector reman	
6	5228763R-P	Injector reman	
6	5228773R-P	Injector reman	
6	5228783R-P	Injector reman	
6	5229340R-P	Injector	C40, remanufactured
6	5229345R-P	Injector reman	
6	5229350R-P	Injector reman	
6	5229920R-P	Injector reman	
6	5229676R-P	Injector reman	
6	5229666R-P	Injector reman	
6	8925981-F	Injector tube kit	Copper, pre-reamed with seal
12	8926992-F	Fuel connector	Flared type
12	8925644-F	Fuel connector washer	
12	23511852-F	Fuel jumper line	Flared type
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
	5110760-B	Primer hand pump	
	5129705-F	Hose fuel linkage	7/8 ID x .75 Length
	5129706-F	Hose fuel linkage	7/8 ID x 1.62 Length
1	5121342-F	Gasket governor ctrl	mechanical governor
COOLING SYSTEM			
1	WP1388-PR	Water pump	Remanufactured; Left hand outlet, 2 threaded ports, cast 5144688 [5144685, 23506003]
1	WP1388A-PR	Water pump	Remanufactured; Left hand outlet, 1 threaded port, cast 5119280 [5109551]
1	WP1387-PR	Water pump	Remanufactured; Right hand outlet, 2 threaded ports, cast 5144889 [5144686, 23506007]

Detroit Diesel 506x-xxxx		6V53 (Continued)	https://trackmanualshub.com/ 5" Cylinder Bore 3.875 Stroke 4.500
1	WP1387-PR	Water pump	Remanufactured; Right hand outlet, 2 threaded ports, cast 5144889 [5144686, 23506007]
1	5133107-F	Water pump mtg gsk	
1	23506248-F	Water pump seal	Unitized
1	904827-F	Water pump shaft	Shaft and bearing
1	23506863-F	Water pump kit	LH pump, old style
1	23506864-F	Water pump kit	RH pump, old style
1	23506869-F	Water pump kit	LH pump, current style - unitized seal
1	23506865-F	Water pump kit	RH pump, current style - unitized seal
2	5124872-F	Thermostat	170F, vented, use with seal
2	5143210-F	Thermostat	170F, use with seal
2	5102978	Thermostat	[Discontinued, use 5104462] 180F, vented, use with seal
2	5104462-F	Thermostat	180F, use with seal
2	5134269-F	Thermostat seal	
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	5116205-F	Gasket manifold exhaust	
2	5103394	Gasket turbo mtg	[Discontinued] T04 turbo
1	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
	5170468-F	Gasket turbo drain	TV turbo
BLOCK			
6	5135547-F	Sleeve cylinder block	0.434 dia
6	5135548-F	Insert cylinder block	0.800 dia
6	5135662-F	Sleeve cylinder block	0.299 dia
6	5135663-F	Insert cylinder block	0.455 dia
MISC			
4	8923792-F	Gasket air box	Small cover WBP block
1	5122610-F	Gasket blower inlet	With screen
1	5198683-F	Blower repair kit	
4	5199366-F	Blower seal	Oversize
4	5199368-F	Blower sleeve	Use with O/S seal
1	8922969-F	Drive coupling assy	
1	8922967-F	Blower drive shaft	6.43 length
1	5198043-F	Blower installation kit	

Detroit		8V53	https://trackmanualshub.com/
Diesel		8 Cylinder	Bore 3.875
508x-xxxx			Stroke 4.500
VALVE TRAIN			
2	22-4-53-4V	Cylinder head	Remanufactured complete, 4-valve [Assy: 5198202; Cast: 5134294]
TURBO / AIR			
TURBO	TURBOCHARGER	New or remanufactured available, call for pricing	

Detroit Diesel 102x-xxxx		2-71 Inline	https://trackmanualshub.com/ 2-Cylinder Bore 4.250 Stroke 5.000
CYLINDER KIT			
2	20014-F	Cylinder kit	Std #1, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504931 liner] [LCK-5309]
Opiton: 1, 2, 3, 4, 14, 15, 135			
2	23505308-F	Cylinder kit	Std #2, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504932 liner] [LCK-5309]
2	23505309-F	Cylinder kit	Std #3, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504933 liner] [LCK-5309]
2	235053091-F	Cylinder kit	.001 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504934 liner] [LCK-5309]
2	235053095-F	Cylinder kit	.005 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102316 liner] [LCK-5309]
2	2350530910-F	Cylinder kit	.010 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102317 liner] [LCK-5309]
2	2350530920-F	Cylinder kit	.020 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102318 liner] [LCK-5309]
2	2350530930-F	Cylinder kit	.030 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102319 liner] [LCK-5309]
2	LCK-5309-F	Linerless cylinder kit	Cylinder kit 23505308 less liner [5189054 piston, 5188406 pin, 5188405 retainers, 5193477 rings]
2	5189054-F	Piston kit	Non turbo; 1.50 pin, trunk, 17.5:1; 2 valve head [5188867 piston, 5155839 bushings, 5188405 ret]
2	5188406-F	Piston pin	1.50 diameter, trunk
4	5188405-F	Retainer piston pin	For trunk pistons
2	5193477-F	Ring set	Trunk, 2 valve head; (4) 5185325, (4) 5179824, (1) 5130780
2	23504931-F	Cylinder liner	.081 port, Std #1, 2 valve
2	23504932-F	Cylinder liner	.081 port, Std #2, 2 valve
2	23504933-F	Cylinder liner	.081 port, Std #3, 2 valve
2	23504934-F	Cylinder liner	.081 port, #4, .001 OS, 2 valve
2	5102316-F	Cylinder liner	.081 port, .005 OS, 2 valve
2	5102317-F	Cylinder liner	.081 port, .010 OS, 2 valve
2	5102318-F	Cylinder liner	.081 port, .020 OS, 2 valve
2	5102319-F	Cylinder liner	.081 port, .030 OS, 2 valve
2	2190595-F	Shim cylinder liner	.0015 thick, Low block
2	5192226-F	Shim cylinder liner	.0030 thick, Low block
BEARINGS			
2	23511129-F	Bearing rod pair	Std
2	23511131-F	Bearing rod pair	0.002
2	23511133-F	Bearing rod pair	0.010
2	23511135-F	Bearing rod pair	0.020
2	23511137-F	Bearing rod pair	0.030
2	5193741-F	Bearing rod pair	0.040
3	5192874-F	Bearing main pair	Std
3	5192875-F	Bearing main pair	0.002
3	5192876-F	Bearing main pair	0.010
3	5192877-F	Bearing main pair	0.020
3	5192878-F	Bearing main pair	0.030
3	5193738-F	Bearing main pair	0.040
3	5193739-F	Bearing main pair	0.050
4	5159353-F	Thrust washer	Std

Detroit Diesel 102x-xxxx		2-71 Inline (Continued)	https://trackmanualshub.com/ 2-Cylinder Bore 4.250 Stroke 5.000
4	5160542-F	Thrust washer	.005 OS
4	5192111-F	Thrust washer	.010 OS
4	141346-F	Thrust dowel pin	3/16 x 1/2
4	5157274-F	Bushing con rod	Non-turbo, trunk
GASKET & SEALS			
1	5192434-F	Set overhaul	Low block
1	5192433-F	Set cylinder head	
	G1	UPPER GASKETS	
1	5174900-B	Gasket cylinder head	Compression
1	5144484-F	Gasket valve cover	Stamped steel cover, neoprene
	G4	LOWER GASKETS	
1	5152525-F	Gasket fywheel hsg	Housing to end plate
1	5156192-F	Gasket front cover	Crankshaft
2	5152288-F	Gasket hand hole cvr	
4	23505525-F	Gasket hand hole cvr	Hand hole cover bolt, 3/8 copper
	G5	PAN GASKETS	
1	5154198-F	Gasket oil pan	Stamped pan
	G3	CRANK SEALS	
1	5154314-F	Seal crankshaft front	Single lip, std (2.375 shaft, 3.505 OD, .375 width)
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5197159-F	Sleeve crankshaft seal	
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
6	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
6	8923814-F	Follower roller set	Includes: roller, bushing, pin
4	103320-F	Lockwasher	5/16
6	5128640-F	Push rod	
6	5151601-F	Push rod nut	5/16 - 24, lock
6	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
6	5123250-F	Seat push rod spring	Lower
2	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
2	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
2	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
4	5122445-F	Bushing rocker arm	Valve, large
6	8924354-F	Bushing rocker arm	Valve and injector, small
2	8924355-F	Bushing rocker arm	Injector, large
6	5150312-F	Clevis rocker arm	Valve and injector
6	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
6	5150314-F	Pin clevis	Valve and injector
2	23500714-F	Rocker shaft	
2	5140456	Rocker shaft	With nozzle, horizontal engines
VALVE TRAIN			
1	5189858	Cylinder head	2 valve; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
4	5193197-F	Valve exhaust	With locks, Std, "N" 30 degree (5185327 valve, 23507238 locks)
4	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
8	23507238-F	Valve lock	
4	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
4	5150291-F	Valve spring cap	

Detroit Diesel 102x-xxxx		2-71 Inline (Continued)	https://trackmanualshub.com/ 2-Cylinder Bore 4.250 Stroke 5.000
4	5150292-F	Valve spring seat	
4	5120930-F	Valve guide	
4	23500480-F	Valve guide seal	Metal case, teflon lip
4	8927920-F	Valve insert	Standard, 30 degree
4	5198230-F	Valve insert	.010 oversize, 30 degree
CRANKSHAFT			
1	5154316-F	Spacer crank seal	Front, 1-11/32 length
1	5192496-F	Spacer crank seal	Rear, not for double lip seal
CONNECTING ROD			
4	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
4	5117629-F	Nut connecting rod	7/16 - 20
2	5150140-F	Nozzle connecting rod	Spray
2	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	5154214-F	Gasket oil cooler	Inner, H E cooling
1	5165803-F	Gasket oil cooler	Inner, Radiator cooling
1	5165801-F	Gasket oil cooler	Outer, Diameter cooling
1	5154208-F	Gasket oil cooler	Outer, H E cooling
1	5154213-F	Gasket oil cooler	Cooler housing to block
FUEL / INJECTOR			
2	5228310R-P	Injector reman HV60	
2	5228305R-P	Injector reman HV70	
2	5227015R-P	Injector reman	
2	5228380R-P	Injector reman HV90	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5154216-F	Fuel pump drive	Coupling
1	5150193-F	Gasket fuel pump mtg	
4	8926992-F	Fuel connector	Flared type
4	5152148-F	Fuel connector washer	25/64ID x 9/16 OD x 1/16 thick, copper
4	5154013	Fuel jumper line	[Discontinued] For straight body injectors
COOLING SYSTEM			
1	3041379-F	Thermostat	170F, vent hole, reverse poppet
1	8927465-F	Thermostat	170F, with vent hole
1	5132155-F	Thermostat seal	
1	5154271-F	Gasket thermostat	Housing
1	5196935-F	Water pump kit	Repair kit
TURBO / AIR			
1	5154210-F	Gasket manifold	
3	3291894	Gasket exhaust outlet	[Discontinued] 4.125 bolt hole center
1	5157374	Gasket exhaust outlet	[Discontinued]
MISC			
1	5192320-F	Set blower installation	
1	5154133-F	Gasket blower mtg	Blower to block
1	5103557-F	Gasket blower inlet	With screen
1	5192324-F	Blower repair kit	

Detroit Diesel 103x-xxxx		3-71 Inline 3-Cylinder	https://truckmanualshub.com/ Bore 4.250 Stroke 5.000
ENGINE KITS			
1	371IF5309	InFrame kit	Non turbo, trunk, 0.81 port, 2 valve
1	371OF5309	Overhual kit	Non turbo, trunk, 0.81 port, 2 valve
1	371IF5307	InFrame kit	Turbo, trunk, 1.05 port, 2 valve
1	371OF5307	Overhual kit	Turbo, trunk, 1.05 port, 2 valve
1	371IF5306	InFrame kit	Non turbo, trunk, 1.05 port, 4 valve
1	371OF5306	Overhual kit	Non turbo, trunk, 1.05 port, 4 valve
1	371IF22473	InFrame kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	371OF22473	Overhual kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	371IF22949	InFrame kit	Non turbo, xhead, 1.05 or 0.95 port
1	371OF22949	Overhual kit	Non turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK1		Trunk, non-turbo,.81 port, 17.5:1, 2 valve head	
Opiton: 1, 2, 3, 4, 14, 15, 135			
3	20014-F	Cylinder kit	Std #1, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504931 liner] [LCK-5309]
3	23505308-F	Cylinder kit	Std #2, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504932 liner] [LCK-5309]
3	23505309-F	Cylinder kit	Std #3, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504933 liner] [LCK-5309]
3	235053091-F	Cylinder kit	.001 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504934 liner] [LCK-5309]
3	235053095-F	Cylinder kit	.005 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102316 liner] [LCK-5309]
3	2350530910-F	Cylinder kit	.010 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102317 liner] [LCK-5309]
3	2350530920-F	Cylinder kit	.020 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102318 liner] [LCK-5309]
3	2350530930-F	Cylinder kit	.030 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102319 liner] [LCK-5309]
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 20, 43, 46, 47, 48, 69, 72, 74, 85, 87, 89, 90, 101, 103			
3	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
3	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
3	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
3	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
3	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
3	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
3	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
3	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 18, 19, 37, 71, 75, 92			
3	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
3	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
3	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://truckmanualshub.com/3-Cylinder	Bore 4.250 Stroke 5.000
3	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]	
3	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]	
3	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]	
3	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]	
3	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]	
CK4		Xhead, non-turbo, 1.05 port, 18.7:1		
Option: 139, 141, 234, 235, 360				
3	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]	
3	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]	
3	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]	
3	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]	
3	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]	
3	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]	
3	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]	
3	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]	
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach		
Option: 256, 290, 327				
3	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]	
3	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]	
3	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]	
3	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]	
3	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]	
3	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]	
3	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]	
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below		
Option: 28, 124, 140, 175, 289, 292, 294, 301, 305, 326, 359				
3	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]	
3	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]	
3	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]	
3	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]	
3	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]	
3	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]	

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
3	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
3	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7			Xhead, TA, 0.95 port, 17:1, N75 & above, High output marine
Option: 191, 282			
3	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
3	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
3	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
3	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
3	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
3	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
3	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]
CK9			Xhead, Turbo, 1.05 port, 18.7:1
3	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
3	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
3	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
CK10			Xhead, Turbo, 1.05 port, 17:1
3	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]
N80 injector and above			
3	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
3	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
3	LCK-5309-F	Linerless cylinder kit	Cylinder kit 23505308 less liner [5189054 piston, 5188406 pin, 5188405 retainers, 5193477 rings]
3	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]
3	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
3	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
3	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
3	5189054-F	Piston kit	Non turbo; 1.50 pin, trunk, 17.5:1; 2 valve head [5188867 piston, 5155839 bushings, 5188405 ret]
3	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
3	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
3	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
3	23522026-F	Piston crown	Xhead, 18.7:1
3	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
3	23521992-F	Piston crown	Xhead, 17.0:1
3	23522070-F	Piston skirt	for xhead pistons
3	23501687-F	Slipper bearing	for xhead pistons
3	8922221-F	Piston seal	for xhead pistons
6	5144846-F	Spacer piston bolt	for xhead pistons
6	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
3	5188406-F	Piston pin	1.50 diameter, trunk
3	5144495-F	Piston pin	1.50 diameter, drilled, trunk
3	5130881-F	Piston pin	Trunk, turbo non-drilled, military
3	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
3	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
6	5188405-F	Retainer piston pin	For trunk pistons
6	5180250-F	Retainer piston pin	for xhead pistons
3	5193477-F	Ring set	Trunk, 2 valve head; (4) 5185325, (4) 5179824, (1) 5130780
3	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
3	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
3	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
3	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
3	23504931-F	Cylinder liner	.081 port, Std #1, 2 valve
3	23504932-F	Cylinder liner	.081 port, Std #2, 2 valve
3	23504933-F	Cylinder liner	.081 port, Std #3, 2 valve
3	23504934-F	Cylinder liner	.081 port, #4, .001 OS, 2 valve
3	5102316-F	Cylinder liner	.081 port, .005 OS, 2 valve
3	5102317-F	Cylinder liner	.081 port, .010 OS, 2 valve
3	5102318-F	Cylinder liner	.081 port, .020 OS, 2 valve
3	5102319-F	Cylinder liner	.081 port, .030 OS, 2 valve
3	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
3	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
3	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
3	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
3	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
3	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
3	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)
3	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
3	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
3	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
3	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
3	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
3	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
3	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA
3	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
3	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
3	5199569-F	Shim cylinder liner	.0020 thick, High block
3	2190595-F	Shim cylinder liner	.0015 thick, Low block
3	5192226-F	Shim cylinder liner	.0030 thick, Low block
3	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
3	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
3	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
3	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; 1715 - .1720, Std thru .005 OS liner
3	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
3	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner
3	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
3	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
3	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
3	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
3	23511129-F	Bearing rod pair	Std
3	23511131-F	Bearing rod pair	0.002
3	23511133-F	Bearing rod pair	0.010
3	23511135-F	Bearing rod pair	0.020
3	23511137-F	Bearing rod pair	0.030
3	5193741-F	Bearing rod pair	0.040
4	5192874-F	Bearing main pair	Std
4	5192875-F	Bearing main pair	0.002
4	5192876-F	Bearing main pair	0.010
4	5192877-F	Bearing main pair	0.020
4	5192878-F	Bearing main pair	0.030
4	5193738-F	Bearing main pair	0.040
4	5193739-F	Bearing main pair	0.050
4	5159353-F	Thrust washer	Std
4	5160542-F	Thrust washer	.005 OS
4	5192111-F	Thrust washer	.010 OS
4	141346-F	Thrust dowel pin	3/16 x 1/2
2	5196022-F	Bearing cam	Intermediate; Std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
4	5111424-F	Thrust washer cam	
6	5157274-F	Bushing con rod	Non-turbo, trunk
6	5155839-F	Bushing piston pin	Trunk, pressed into piston
GASKET & SEALS			
1	23512674-F	Set overhaul	High block, sn 3A08330 & up
1	5192921-F	Set overhaul	Low block
1	5193116-F	Set cylinder head	High block, sn 3A08330 & up
1	5192924-F	Set cylinder head	Low block
G1		UPPER GASKETS	
3	5103659-F	Gasket cylinder head	Compression; High block
1	5150043-F	Gasket cylinder head	Compression; Low block
1	5143405-F	Gasket valve cover	Stamped steel cover, neoprene, flat
1	5104018-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
2	5104515-F	Isolator valve cover	For cast aluminum cover
G4		LOWER GASKETS	
2	23505518-F	Gasket end plate	End plate to block, front and rear
1	8928967-F	Gasket flywheel hsg	Housing to end plate
2	5150055-F	Gasket flywheel hsg	
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	5150181-F	Gasket front cover	Crankshaft

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
4	5132117-F	Gasket hand hole cvr	
4	23505525-F	Gasket hand hole cvr	Hand hole cover bolt, 3/8 copper
1	5116357-F	Gasket water hole cvr	
1	5121753-F	Gasket balance wgt cvr	
2	5135935-F	Gasket balance wgt cvr	Cover hole
	G5	PAN GASKETS	
1	5150115-F	Gasket oil pan	Stamped and cast 371; Lower front pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
1	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	5197159-F	Sleeve crankshaft seal	
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
9	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
9	8923814-F	Follower roller set	Includes: roller, bushing, pin
3	5106413-B	Guide cam follower	
6	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
6	103319-F	Lockwasher	1/4
9	5128640-F	Push rod	
9	5151601-F	Push rod nut	5/16 - 24, lock
9	5150303-F	Retainer push rod	Snap ring
9	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
9	5150302-F	Seat push rod spring	Upper
9	5123250-F	Seat push rod spring	Lower
3	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
3	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
3	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
3	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
3	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
6	5122445-F	Bushing rocker arm	Valve, large
9	8924354-F	Bushing rocker arm	Valve and injector, small
3	8924355-F	Bushing rocker arm	Injector, large
9	5150312-F	Clevis rocker arm	Valve and injector
9	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
9	5150314-F	Pin clevis	Valve and injector
3	23500714-F	Rocker shaft	

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
3	5140456	Rocker shaft	With nozzle, horizontal engines
6	5117565-F	Valve bridge	
6	5151601-F	Push rod nut	5/16 - 24, lock
6	5117564-F	Valve bridge guide	Press fit
from 4A85187, 6A94751			
VALVE TRAIN			
1	5198218C	Cylinder head	2 valve, complete; remanufactured
1	5102769B	Cylinder head	4 valve, bare; remanufactured
1	5102769C	Cylinder head	4 valve, complete; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
6	5193197-F	Valve exhaust	With locks, Std, "N" 30 degree (5185327 valve, 23507238 locks)
6	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
12	23507238-F	Valve lock	
6	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
6	5150291-F	Valve spring cap	
6	5150292-F	Valve spring seat	
6	5120930-F	Valve guide	
6	23500480-F	Valve guide seal	Metal case, teflon lip
6	8927920-F	Valve insert	Standard, 30 degree
6	5198230-F	Valve insert	.010 oversize, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
12	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
12	5149386-F	Valve exhaust	High HP marine & industrial, "T1" 30 degree; hi-output
24	5111337-F	Valve lock	
12	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
12	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
thru 4A85186, 6A94750			
12	5117563-F	Valve spring cap	
12	5117562-F	Valve spring seat	
12	5111467-F	Valve spring seat	
12	5129919-F	Valve guide	
12	8921209-F	Valve guide seal	Metal with teflon lip
12	5101101-F	Valve insert	Standard, 30 degree
12	5197167-F	Valve insert	.010 oversize, 30 degree
6	5129101-F	Screw	Adjusting, 5/16 - 24 x1
6	5196843-F	Guide valve bridge	Threaded type
thru 4A85186, 6A94750			
CRANKSHAFT			
1	5184215-F	Crankshaft	
1	5192496-F	Spacer crank seal	Rear, not for double lip seal
CONNECTING ROD			
6	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
6	5117629-F	Nut connecting rod	7/16 - 20
3	5150140-F	Nozzle connecting rod	Spray
3	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	8547548-F	Oil cooler core	6 plate
1	8547563-F	Oil cooler core	8 plate
1	8547581-F	Oil cooler core	13 plate, single stack
1	5177777-F	Bypass valve	Oil cooler bypass
1	5133431-F	Bypass valve	Oil cooler by-pass, oil filter relief
1	5177778-F	Bypass spring	

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	5153902-F	Gasket oil cooler	Oil cooler housing pad cover
1	5112401-F	Gasket oil cooler	Oil cooler adaptor to block and housing pad cover
1	5151190-F	Gasket oil cooler	Oil cooler housing pad cover
2	5150154-F	Gasket oil cooler	Oil cooler adaptor to block
1	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
2	5112401-F	Gasket oil cooler	Oil cooler adaptor to block and housing pad cover
1	5159430-F	Gasket oil cooler	Oil cooler adaptor to block
1	5159447-F	Gasket oil cooler	Oil cooler inlet and outlet tube
1	5104381-F	Gasket oil regulator	Oil pressure regulator body, Type 23
1	5154199-F	Gasket oil regulator	Oil pressure regulator body, Type 1, 2, 21
1	5156831-F	Gasket oil regulator	Oil pressure regulator body, Type 3
1	5151370-F	Gasket oil pump pad	1-7/8 bolt center
1	5153313-F	Gasket oil pump pad	2-1/8 bolt center
FUEL / INJECTOR			
3	5228310R-P	Injector reman HV60	
3	5228305R-P	Injector reman HV70	
3	5228110R-P	Injector reman HV80	
3	5228380R-P	Injector reman HV90	
3	5229355R-P	Injector reman	
3	5229360R-P	Injector reman	
3	5229365R-P	Injector reman	
3	5229370R-P	Injector reman	
3	5227015R-P	Injector reman	
3	5228785R-P	Injector reman	
3	5228760R-P	Injector reman N60	
3	5228765R-B	Injector	N65 (White tag)
3	5228900R-P	Injector reman	
3	5228770R-P	Injector reman	
3	5228777R-P	Injector reman	
3	5228780R-P	Injector reman	
3	5228790R-P	Injector reman	
3	5229352R-P	Injector reman	
3	5229790R-P	Injector reman	
3	5229795R-P	Injector reman	
3	5229800R-P	Injector reman	
3	5229820R-P	Injector reman	7E75, remanufactured
3	5229895R-P	Injector reman	
3	5229900R-P	Injector reman	
3	5229905R-P	Injector reman	
3	5229700R-P	Injector reman	
3	5229695R-P	Injector reman	
3	5226440R-P	Injector reman	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
	5199734-F	Fuel pump	RH, high capacity

Detroit Diesel 103x-xxxx		3-71 Inline (Continued)	https://trackmanualshub.com/ 3-Cylinder Bore 4.250 Stroke 5.000
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5150193-F	Gasket fuel pump mtg	
6	5117369-F	Fuel connector	Flared style
6	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
6	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
3	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
3	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	WP1257-PR	Water pump	Remanufactured; Right hand outlet, standard capacity, cast 5186574, 5178318, 5135602 [23506735, 5149707, 5135596, 5159060, 5186576]
1	WP1257A-PR	Water pump	Remanufactured; Left hand outlet, standard capacity, cast 5178317, 5186573, 5135601 [23506723, 5135601, 5149706, 5159059]
1	3041379-F	Thermostat	170F, vent hole, reverse poppet
1	5172141-F	Thermostat	173F [type 1] [marked 4A357-010]
1	23503827-F	Thermostat	160F
1	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
1	5132155-F	Thermostat seal	
2	5169478-F	Gasket thermostat	Housing
1	5167761-F	Gasket thermostat	Housing at expansion tank
1	5153560-F	Seal water pump	Inlet, 2-3/16 OD
1	5159457-F	Seal water pump	Inlet 2-1/2 OD
1	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
2	5139809	Clamp water pump seal	[Discontinued] Inlet for 2-1/2 diameter hose
1	5198307-F	Water pump kit	Repair kit, for damper assy 23503043 only
1	5149985-F	Water pump kit	Repair kit, standard capacity
1	23506851-F	Water pump kit	Repair kit, standard capacity, ceramic seal seat
1	5198308-F	Water pump kit	Repair kit, high capacity, carbon seal
1	5149917-B	Water pump kit	Repair kit, high capacity
1	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
1	5149918-F	Water pump kit	Repair kit, standard and high capacity: less impeller and shaft & bearing assy
1	23506858-F	Water pump kit	Repair kit, stD and high capacity: less impeller and shaft & bearing assy; contains ceramic seal seat
TURBO / AIR			
1	5150194-F	Gasket manifold	
3	3221863-F	Gasket exhaust outlet	3.50 bolt hole center, 3.25 hole dia
1	5108377-F	Gasket exhaust outlet	use 23513711
1	23513711	Gasket exhaust outlet	3.25 bolt hole center, 3.50 hole dia
1	5100147-F	Gasket exhaust outlet	3.58 bolt hole center, 3.50 hole dia, 1/2 bolt dia
1	5163811-F	Gasket exhaust outlet	5.375 bolt hole center (use 23504701)
1	23504701-F	Gasket exhaust outlet	5.375 bolt hole center, 4.38 hole dia
1	5166486-F	Gasket exhaust outlet	4.375 bolt hole center
MISC			
1	5192752-F	Set blower installation	
1	5150235-F	Gasket blower mtg	Blower to block
1	5103558-F	Gasket blower inlet	With screen
1	5108120-F	Blower repair kit	Natural
1	23514204-F	Blower repair kit	Turbo, small bearing
1	5154638-F	Blower drive shaft	6-3/16 length, short
1	5168129-F	Blower drive shaft	7-1/6 length, long
1	5154637-F	Retainer blower drive	

Detroit Diesel 104x-xxxx		4-71 Inline	https://truckmanualshub.com/ 4 Cylinder Bore 4.250 Stroke 5.000
ENGINE KITS			
1	471IF5309	InFrame kit	Non turbo, trunk, 0.81 port, 2 valve
1	471OF5309	Overhual kit	Non turbo, trunk, 0.81 port, 2 valve
1	471IF5307	InFrame kit	Turbo, trunk, 1.05 port, 2 valve
1	471OF5307	Overhual kit	Turbo, trunk, 1.05 port, 2 valve
1	471IF5306	InFrame kit	Non turbo, trunk, 1.05 port, 4 valve
1	471OF5306	Overhual kit	Non turbo, trunk, 1.05 port, 4 valve
1	471IF22473	InFrame kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	471OF22473	Overhual kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	471IF22949	InFrame kit	Non turbo, xhead, 1.05 or 0.95 port
1	471OF22949	Overhual kit	Non turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK1		Trunk, non-turbo,.81 port, 17.5:1, 2 valve head	
Opiton: 1, 2, 3, 4, 14, 15, 135			
4	20014-F	Cylinder kit	Std #1, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504931 liner] [LCK-5309]
4	23505308-F	Cylinder kit	Std #2, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504932 liner] [LCK-5309]
4	23505309-F	Cylinder kit	Std #3, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504933 liner] [LCK-5309]
4	235053091-F	Cylinder kit	.001 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504934 liner] [LCK-5309]
4	235053095-F	Cylinder kit	.005 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102316 liner] [LCK-5309]
4	2350530910-F	Cylinder kit	.010 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102317 liner] [LCK-5309]
4	2350530920-F	Cylinder kit	.020 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102318 liner] [LCK-5309]
4	2350530930-F	Cylinder kit	.030 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102319 liner] [LCK-5309]
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 20, 43, 46, 47, 48, 69, 72, 74, 85, 87, 89, 90, 101, 103			
4	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
4	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
4	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
4	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
4	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
4	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
4	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
4	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 18, 19, 37, 71, 75, 92			
4	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
4	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
4	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
4	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
4	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
4	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
4	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 139, 141, 234, 235, 360			
4	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
4	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
4	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
4	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]
4	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
4	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
4	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
4	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 256, 290, 327			
4	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
4	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
4	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
4	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
4	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
4	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
4	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 28, 124, 140, 175, 289, 292, 294, 301, 305, 326, 359			
4	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
4	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
4	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
4	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
4	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
4	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1; N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
4	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1; N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7			Xhead, TA, 0.95 port, 17:1; N75 & above, High output marine
Option: 191, 282			
4	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
4	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
4	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
4	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
4	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
4	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
4	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]
CK9			Xhead, Turbo, 1.05 port, 18.7:1
4	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
4	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
4	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
CK10			Xhead, Turbo, 1.05 port, 17:1
4	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]
4	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
4	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
4	LCK-5309-F	Linerless cylinder kit	Cylinder kit 23505308 less liner [5189054 piston, 5188406 pin, 5188405 retainers, 5193477 rings]
4	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]
4	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
4	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
4	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
4	5189054-F	Piston kit	Non turbo; 1.50 pin, trunk, 17.5:1; 2 valve head [5188867 piston, 5155839 bushings, 5188405 ret]
4	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
4	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
4	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
4	23522026-F	Piston crown	Xhead, 18.7:1
4	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
4	23521992-F	Piston crown	Xhead, 17.0:1
4	23522070-F	Piston skirt	for xhead pistons
4	23501687-F	Slipper bearing	for xhead pistons
4	8922221-F	Piston seal	for xhead pistons
8	5144846-F	Spacer piston bolt	for xhead pistons
8	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
4	5188406-F	Piston pin	1.50 diameter, trunk

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	5144495-F	Piston pin	1.50 diameter, drilled, trunk
4	5130881-F	Piston pin	Trunk, turbo non-drilled, military
4	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
4	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
8	5188405-F	Retainer piston pin	For trunk pistons
8	5180250-F	Retainer piston pin	for xhead pistons
4	5193477-F	Ring set	Trunk, 2 valve head; (4) 5185325, (4) 5179824, (1) 5130780
4	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
4	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
4	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
4	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
4	23504931-F	Cylinder liner	.081 port, Std #1, 2 valve
4	23504932-F	Cylinder liner	.081 port, Std #2, 2 valve
4	23504933-F	Cylinder liner	.081 port, Std #3, 2 valve
4	23504934-F	Cylinder liner	.081 port, #4, .001 OS, 2 valve
4	5102316-F	Cylinder liner	.081 port, .005 OS, 2 valve
4	5102317-F	Cylinder liner	.081 port, .010 OS, 2 valve
4	5102318-F	Cylinder liner	.081 port, .020 OS, 2 valve
4	5102319-F	Cylinder liner	.081 port, .030 OS, 2 valve
4	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
4	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
4	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
4	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
4	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
4	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
4	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)
4	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
4	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
4	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
4	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
4	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
4	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
4	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA
4	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
4	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
4	5199569-F	Shim cylinder liner	.0020 thick, High block
4	2190595-F	Shim cylinder liner	.0015 thick, Low block
4	5192226-F	Shim cylinder liner	.0030 thick, Low block
4	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
4	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
4	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
4	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; 1715 - .1720, Std thru .005 OS liner
4	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
4	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
4	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
4	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
4	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
4	23511129-F	Bearing rod pair	Std
4	23511131-F	Bearing rod pair	0.002
4	23511133-F	Bearing rod pair	0.010
4	23511135-F	Bearing rod pair	0.020
4	23511137-F	Bearing rod pair	0.030
4	5193741-F	Bearing rod pair	0.040
5	5192874-F	Bearing main pair	Std
5	5192875-F	Bearing main pair	0.002
5	5192876-F	Bearing main pair	0.010
5	5192877-F	Bearing main pair	0.020
5	5192878-F	Bearing main pair	0.030
5	5193738-F	Bearing main pair	0.040
5	5193739-F	Bearing main pair	0.050
4	5159353-F	Thrust washer	Std
4	5160542-F	Thrust washer	.005 OS
4	5192111-F	Thrust washer	.010 OS
4	141346-F	Thrust dowel pin	3/16 x 1/2
3	5196022-F	Bearing cam	Intermediate; Std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
4	5111424-F	Thrust washer cam	
8	5157274-F	Bushing con rod	Non-turbo, trunk
8	5155839-F	Bushing piston pin	Trunk, pressed into piston
GASKET & SEALS			
1	23512675-F	Set overhaul	High block, sn 4A19529 & up
1	5192922-F	Set overhaul	Low block
1	5198676-F	Set cylinder head	High block, sn 4A19529 & up
1	5192925-F	Set cylinder head	Low block
G1 UPPER GASKETS			
4	5103659-F	Gasket cylinder head	Compression; High block
1	5150044-F	Gasket cylinder head	Compression; Low block
1	5143406-F	Gasket valve cover	Stamped steel cover, neoprene, flat
1	5104081-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
2	5104515-F	Isolator valve cover	For cast aluminum cover
G4 LOWER GASKETS			
2	23505518-F	Gasket end plate	End plate to block, front and rear
1	8928967-F	Gasket flywheel hsg	Housing to end plate
2	5150055-F	Gasket flywheel hsg	
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	5150181-F	Gasket front cover	Crankshaft
1	5112641-F	Gasket front cover	Crankshaft

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	5132117-F	Gasket hand hole cvr	
4	23505525-F	Gasket hand hole cvr	Hand hole cover bolt, 3/8 copper
1	5116357-F	Gasket water hole cvr	
1	5121753-F	Gasket balance wgt cvr	
2	5135935-F	Gasket balance wgt cvr	Cover hole
	G5	PAN GASKETS	
1	5150116-F	Gasket oil pan	Stamped and cast 471; Lower rear pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5153986-F	Gasket sump	
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	5143108-F	Seal crankshaft front	Submersible
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
1	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	5197159-F	Sleeve crankshaft seal	
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
	DETCAM2	NOTE	Cams listed are advanced timed, correct gear train position and key must be matched for correct timing
1	5149391-F	Camshaft	RH engines (A7, 5102663)
1	5149392	Camshaft	[Discontinued, check for reman] LH engines (A7, 5102666)
1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
12	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
12	8923814-F	Follower roller set	Includes: roller, bushing, pin
4	5106413-B	Guide cam follower	
8	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
8	103319-F	Lockwasher	1/4
12	5128640-F	Push rod	
12	5151601-F	Push rod nut	5/16 - 24, lock
12	5150303-F	Retainer push rod	Snap ring
12	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
12	5150302-F	Seat push rod spring	Upper
12	5123250-F	Seat push rod spring	Lower
4	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
4	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
4	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
4	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
4	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
8	5122445-F	Bushing rocker arm	Valve, large
12	8924354-F	Bushing rocker arm	Valve and injector, small

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	8924355-F	Bushing rocker arm	Injector, large
12	5150312-F	Clevis rocker arm	Valve and injector
12	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
12	5150314-F	Pin clevis	Valve and injector
4	23500714-F	Rocker shaft	
4	5140456	Rocker shaft	With nozzle, horizontal engines
8	5117565-F	Valve bridge	
8	5151601-F	Push rod nut	5/16 - 24, lock
8	5117564-F	Valve bridge guide	Press fit
from 4A85187, 6A94751			
VALVE TRAIN			
1	5198216B	Cylinder head	2 valve, bare; remanufactured
1	5198216C	Cylinder head	2 valve, complete; remanufactured
1	5102771B	Cylinder head	4 valve, bare; remanufactured
1	5102771C	Cylinder head	4 valve, complete; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
8	5193197-F	Valve exhaust	With locks, Std, "N" 30 degree (5185327 valve, 23507238 locks)
8	5193666-F	Valve exhaust	With locks, Iconel X, 30 degree high HP (5186381 valve, 23507238 locks)
16	23507238-F	Valve lock	
8	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
8	5150291-F	Valve spring cap	
8	5150292-F	Valve spring seat	
8	5120930-F	Valve guide	
8	23500480-F	Valve guide seal	Metal case, teflon lip
8	8927920-F	Valve insert	Standard, 30 degree
8	5198230-F	Valve insert	.010 oversize, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
16	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
16	5149386-F	Valve exhaust	High HP marine & industrial, "TI" 30 degree; hi-output
32	5111337-F	Valve lock	
16	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
16	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
thru 4A85186, 6A94750			
16	5117563-F	Valve spring cap	
16	5117562-F	Valve spring seat	
16	5111467-F	Valve spring seat	
16	5129919-F	Valve guide	
16	8921209-F	Valve guide seal	Metal with teflon lip
16	5101101-F	Valve insert	Standard, 30 degree
16	5197167-F	Valve insert	.010 oversize, 30 degree
8	5129101-F	Screw	Adjusting, 5/16 - 24 x1
8	5196843-F	Guide valve bridge	Threaded type
thru 4A85186, 6A94750			
CRANKSHAFT			
1	5182941	Crankshaft	[Discontinued, check for reground]
1	23507306-F	Spacer crank seal	Front, 2-13/16 length
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
1	5192496-F	Spacer crank seal	Rear, not for double lip seal
1	5100553-F	Damper vibration	Light rubber
1	5177763-F	Damper vibration	Light viscous, 10.8 OD
1	8922491-F	Damper vibration	Viscous heavy, 12.3 OD
1	8925437-F	Damper vibration	Heavy viscous

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4 Cylinder Bore 4.250 Stroke 5.000
1	5134917-F	Cone damper	0.531 length, front
1	5151344-F	Cone damper	0.687 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	23502705-F	Cone damper	2.12 length, rear
CONNECTING ROD			
8	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
8	5117629-F	Nut connecting rod	7/16 - 20
4	5150140-F	Nozzle connecting rod	Spray
4	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	8547548-F	Oil cooler core	6 plate
1	8547551-F	Oil cooler core	8 plate, single stack
1	8547563-F	Oil cooler core	8 plate
1	8547581-F	Oil cooler core	13 plate, single stack
1	8547236-F	Oil cooler core	13 plate, single stack
1	5177777-F	Bypass valve	Oil cooler bypass
1	5133431-F	Bypass valve	Oil cooler by-pass, oil filter relief
1	5177778-F	Bypass spring	
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	5153902-F	Gasket oil cooler	Oil cooler housing pad cover
1	5112401-F	Gasket oil cooler	Oil cooler adaptor to block and housing pad cover
2	5150154-F	Gasket oil cooler	Oil cooler adaptor to block
1	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
2	5112401-F	Gasket oil cooler	Oil cooler adaptor to block and housing pad cover
1	5159430-F	Gasket oil cooler	Oil cooler adaptor to block
1	5159447-F	Gasket oil cooler	Oil cooler inlet and outlet tube
1	5104381-F	Gasket oil regulator	Oil pressure regulator body, Type 23
1	5154199-F	Gasket oil regulator	Oil pressure regulator body, Type 1, 2, 21
1	5156831-F	Gasket oil regulator	Oil pressure regulator body, Type 3
1	5151370-F	Gasket oil pump pad	1-7/8 bolt center
1	5153313-F	Gasket oil pump pad	2-1/8 bolt center
FUEL / INJECTOR			
4	5228310R-P	Injector reman HV60	
4	5228305R-P	Injector reman HV70	
4	5228110R-P	Injector reman HV80	
4	5228380R-P	Injector reman HV90	
4	5229355R-P	Injector reman	
4	5229360R-P	Injector reman	
4	5229365R-P	Injector reman	
4	5229370R-P	Injector reman	
4	5227015R-P	Injector reman	
4	5228785R-P	Injector reman	
4	5228760R-P	Injector reman N60	
4	5228765R-B	Injector	N65 (White tag)
4	5228900R-P	Injector reman	
4	5228770R-P	Injector reman	

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4-Cylinder Bore 4.250 Stroke 5.000
4	5228777R-P	Injector reman	
4	5228780R-P	Injector reman	
4	5228790R-P	Injector reman	
4	5229352R-P	Injector reman	
4	5229790R-P	Injector reman	
4	5229795R-P	Injector reman	
4	5229800R-P	Injector reman	
4	5229820R-P	Injector reman	7E75, remanufactured
4	5229895R-P	Injector reman	
4	5229900R-P	Injector reman	
4	5229905R-P	Injector reman	
4	5229700R-P	Injector reman	
4	5229695R-P	Injector reman	
4	5226440R-P	Injector reman	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5150193-F	Gasket fuel pump mtg	
8	5117369-F	Fuel connector	Flared style
8	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
8	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
4	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
4	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	WP1257-PR	Water pump	Remanufactured; Right hand outlet, standard capacity, cast 5186574, 5178318, 5135602 [23506735, 5149707, 5135596, 5159060, 5186576]
1	WP1257A-PR	Water pump	Remanufactured; Left hand outlet, standard capacity, cast 5178317, 5186573, 5135601 [23506723, 5135601, 5149706, 5159059]
1	WP601-PR	Water pump	Remanufactured; Right hand outlet, high capacity, cast 8920918, 5182070, 5135611 [23506711, 5149708, 8920916]
1	WP601A-PR	Water pump	Remanufactured; Left hand outlet, high capacity, cast 5182069, 8920917 [5149710, 23506704]
1	8927465-F	Thermostat	170F, with vent hole
1	5172141-F	Thermostat	173F [type 1] [marked 4A357-010]
1	5184475-F	Thermostat	173F [type 1]
1	5186383-F	Thermostat	173F, vented, 1/16 bleed hole
1	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
1	23503827-F	Thermostat	160F
1	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
1	5132155-F	Thermostat seal	
2	5169478-F	Gasket thermostat	Housing
1	5167761-F	Gasket thermostat	Housing at expansion tank
1	5153560-F	Seal water pump	Inlet, 2-3/16 OD
1	5159457-F	Seal water pump	Inlet 2-1/2 OD
1	5156770-F	Seal water pump	Inlet 2-3/4 OD
1	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
2	5139809	Clamp water pump seal	[Discontinued] Inlet for 2-1/2 diameter hose
1	5188036-F	Clamp water pump seal	Inlet for 2-3/4 diameter hose
1	5198307-F	Water pump kit	Repair kit, for damper assy 23503043 only
1	5149985-F	Water pump kit	Repair kit, standard capacity

Detroit Diesel 104x-xxxx		4-71 Inline (Continued)	https://trackmanualshub.com/ 4 Cylinders Bore 4.250 Stroke 5.000
1	23506851-F	Water pump kit	Repair kit, standard capacity, ceramic seal seat
1	5198308-F	Water pump kit	Repair kit, high capacity, carbon seal
1	5149917-B	Water pump kit	Repair kit, high capacity
1	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
1	5149918-F	Water pump kit	Repair kit, standard and high capacity: less impeller and shaft & bearing assy
1	23506858-F	Water pump kit	Repair kit, stD and high capacity: less impeller and shaft & bearing assy; contains ceramic seal seat
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	5120224-F	Gasket manifold exhaust ends, metal clad	
1	5120223-F	Gasket manifold exhaust diameter, metal clad	
2	5150195-F	Gasket manifold exhaust ends, center holes offset	
1	5113954-F	Gasket manifold	
3	3221863-F	Gasket exhaust outlet	3.50 bolt hole center, 3.25 hole dia
1	5108377-F	Gasket exhaust outlet	use 23513711
1	23513711	Gasket exhaust outlet	3.25 bolt hole center, 3.50 hole dia
1	5145238-F	Gasket exhaust outlet	3.58 bolt hole center, 3.68 hole dia, 3/8 bolt dia
1	5100147-F	Gasket exhaust outlet	3.58 bolt hole center, 3.50 hole dia, 1/2 bolt dia
1	5163811-F	Gasket exhaust outlet	5.375 bolt hole center (use 23504701)
1	23504701-F	Gasket exhaust outlet	5.375 bolt hole center, 4.38 hole dia
1	5166486-F	Gasket exhaust outlet	4.375 bolt hole center
MISC			
1	5192753-F	Set blower installation	
1	5115657-F	Gasket blower mtg	Blower to block
1	5103559-F	Gasket blower inlet	With screen
1	5108120-F	Blower repair kit	Natural
1	23514204-F	Blower repair kit	Turbo, small bearing
1	5154639-F	Blower drive shaft	7-13/16 length, short
1	5168129-F	Blower drive shaft	7-1/6 length, long
1	5168130-F	Blower drive shaft	8-11/16 length, long
1	5154637-F	Retainer blower drive	

Detroit Diesel 106x-xxxx		6-71 Inline	https://truckmanualshub.com/	6-Cylinder Bore 4.250 Stroke 5.000
ENGINE KITS				
1	671IF5309	InFrame kit	Non turbo, trunk, 0.81 port, 2 valve	
1	671OF5309	Overhual kit	Non turbo, trunk, 0.81 port, 2 valve	
1	671IF5307	InFrame kit	Turbo, trunk, 1.05 port, 2 valve	
1	671OF5307	Overhual kit	Turbo, trunk, 1.05 port, 2 valve	
1	671IF5306	InFrame kit	Non turbo, trunk, 1.05 port, 4 valve	
1	671OF5306	Overhual kit	Non turbo, trunk, 1.05 port, 4 valve	
1	671IF22473	InFrame kit	Turbo or TA, xhead, 1.05 or 0.95 port	
1	671OF22473	Overhual kit	Turbo or TA, xhead, 1.05 or 0.95 port	
1	671IF22949	InFrame kit	Non turbo, xhead, 1.05 or 0.95 port	
1	671OF22949	Overhual kit	Non turbo, xhead, 1.05 or 0.95 port	
CYLINDER KIT				
CK1		Trunk, non-turbo,.81 port, 17.5:1, 2 valve head		
Opiton: 1, 2, 3, 4, 14, 15, 135				
6	20014-F	Cylinder kit	Std #1, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504931 liner] [LCK-5309]	
6	23505308-F	Cylinder kit	Std #2, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504932 liner] [LCK-5309]	
6	23505309-F	Cylinder kit	Std #3, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504933 liner] [LCK-5309]	
6	235053091-F	Cylinder kit	.001 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 23504934 liner] [LCK-5309]	
6	235053095-F	Cylinder kit	.005 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102316 liner] [LCK-5309]	
6	2350530910-F	Cylinder kit	.010 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102317 liner] [LCK-5309]	
6	2350530920-F	Cylinder kit	.020 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102318 liner] [LCK-5309]	
6	2350530930-F	Cylinder kit	.030 OS, Non-turbo; 1.50 pin, .81 port, trunk, 17.5:1, 2 valve head [5189054 piston, 5193477 rings, 5188406 pin, 5102319 liner] [LCK-5309]	
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head		
Option: 20, 43, 46, 47, 48, 69, 72, 74, 85, 87, 89, 90, 101, 103				
6	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]	
6	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]	
6	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]	
6	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]	
6	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]	
6	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]	
6	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]	
6	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]	
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head		
Option: 18, 19, 37, 71, 75, 92				
6	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]	
6	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]	
6	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]	

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://truckmanualshub.com/6-Cylinder Bore 4.250 Stroke 5.000
6	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
6	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
6	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
6	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
6	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 139, 141, 234, 235, 360			
6	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
6	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
6	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
6	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]
6	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
6	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
6	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
6	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 256, 290, 327			
6	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
6	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
6	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
6	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
6	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
6	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
6	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 28, 124, 140, 175, 289, 292, 294, 301, 305, 326, 359			
6	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
6	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
6	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
6	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
6	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
6	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1; N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
6	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1; N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7			Xhead, TA, 0.95 port, 17:1; N75 & above, High output marine
Option: 191, 282			
6	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
6	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
6	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
6	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
6	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
6	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
6	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]
CK9			Xhead, Turbo, 1.05 port, 18.7:1
6	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
6	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
6	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
CK10			Xhead, Turbo, 1.05 port, 17:1
6	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]
6	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
6	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
6	LCK-5309-F	Linerless cylinder kit	Cylinder kit 23505308 less liner [5189054 piston, 5188406 pin, 5188405 retainers, 5193477 rings]
6	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]
6	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
6	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
6	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
6	5189054-F	Piston kit	Non turbo; 1.50 pin, trunk, 17.5:1; 2 valve head [5188867 piston, 5155839 bushings, 5188405 ret]
6	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
6	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
6	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522026-F	Piston crown	Xhead, 18.7:1
6	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23521992-F	Piston crown	Xhead, 17.0:1
6	23522070-F	Piston skirt	for xhead pistons
6	23501687-F	Slipper bearing	for xhead pistons
6	8922221-F	Piston seal	for xhead pistons
12	5144846-F	Spacer piston bolt	for xhead pistons
12	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
6	5188406-F	Piston pin	1.50 diameter, trunk

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	5144495-F	Piston pin	1.50 diameter, drilled, trunk
6	5130881-F	Piston pin	Trunk, turbo non-drilled, military
6	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
6	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
12	5188405-F	Retainer piston pin	For trunk pistons
12	5180250-F	Retainer piston pin	for xhead pistons
6	5193477-F	Ring set	Trunk, 2 valve head; (4) 5185325, (4) 5179824, (1) 5130780
6	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
6	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
6	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
6	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
6	23504931-F	Cylinder liner	.081 port, Std #1, 2 valve
6	23504932-F	Cylinder liner	.081 port, Std #2, 2 valve
6	23504933-F	Cylinder liner	.081 port, Std #3, 2 valve
6	23504934-F	Cylinder liner	.081 port, #4, .001 OS, 2 valve
6	5102316-F	Cylinder liner	.081 port, .005 OS, 2 valve
6	5102317-F	Cylinder liner	.081 port, .010 OS, 2 valve
6	5102318-F	Cylinder liner	.081 port, .020 OS, 2 valve
6	5102319-F	Cylinder liner	.081 port, .030 OS, 2 valve
5	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
5	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
5	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
5	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
5	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
5	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
5	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)
5	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
5	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
5	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
5	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
5	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
5	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
5	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA
5	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
5	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
6	5199569-F	Shim cylinder liner	.0020 thick, High block
6	2190595-F	Shim cylinder liner	.0015 thick, Low block
6	5192226-F	Shim cylinder liner	.0030 thick, Low block
6	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
6	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
6	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
6	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; 1715 - .1720, Std thru .005 OS liner
6	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
6	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
6	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
6	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
6	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
6	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
6	23511129-F	Bearing rod pair	Std
6	23511131-F	Bearing rod pair	0.002
6	23511133-F	Bearing rod pair	0.010
6	23511135-F	Bearing rod pair	0.020
6	23511137-F	Bearing rod pair	0.030
6	5193741-F	Bearing rod pair	0.040
7	5192874-F	Bearing main pair	Std
7	5192875-F	Bearing main pair	0.002
7	5192876-F	Bearing main pair	0.010
7	5192877-F	Bearing main pair	0.020
7	5192878-F	Bearing main pair	0.030
7	5193738-F	Bearing main pair	0.040
7	5193739-F	Bearing main pair	0.050
4	5159353-F	Thrust washer	Std
4	5160542-F	Thrust washer	.005 OS
4	5192111-F	Thrust washer	.010 OS
4	141346-F	Thrust dowel pin	3/16 x 1/2
5	5196022-F	Bearing cam	Intermediate; Std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
4	5111424-F	Thrust washer cam	
12	5157274-F	Bushing con rod	Non-turbo, trunk
12	5155839-F	Bushing piston pin	Trunk, pressed into piston
GASKET & SEALS			
1	23512676-F	Set overhaul	High block, sn 6A16283 & up
1	5192923-F	Set overhaul	Low block
1	5194807-F	Set supplemental	Use with overaul set for Marine only (64HN9) use with 5192923 or 23512676
1	5195742-F	Set cylinder head	High block, sn 6A16283 & up
1	5192926-F	Set cylinder head	Low block
G1 UPPER GASKETS			
6	5103659-F	Gasket cylinder head	Compression; High block
6	5150045-F	Gasket cylinder head	Compression; Low block
1	5143407-F	Gasket valve cover	Stamped steel cover, neoprene, flat
1	5104019-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
4	5104515-F	Isolator valve cover	For cast aluminum cover
G4 LOWER GASKETS			
2	23505518-F	Gasket end plate	End plate to block, front and rear
1	8928967-F	Gasket fywheel hsg	Housing to end plate
2	5150055-F	Gasket fywheel hsg	
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
1	5150181-F	Gasket front cover	Crankshaft

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
1	5112641-F	Gasket front cover	Crankshaft
8	5132117-F	Gasket hand hole cvr	
8	23505525-F	Gasket hand hole cvr	Hand hole cover bolt, 3/8 copper
1	5116357-F	Gasket water hole cvr	
1	5121753-F	Gasket balance wgt cvr	
2	5135935-F	Gasket balance wgt cvr	Cover hole
	G5	PAN GASKETS	
1	5150117-F	Gasket oil pan	Stamped pan to block; Cast upper pan to block
1	5153256-F	Gasket oil pan	Lower oil pan
1	5153788-F	Gasket oil pan cover	Round cover
1	5153986-F	Gasket sump	
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	5143108-F	Seal crankshaft front	Submersible
1	5103071-F	Seal crankshaft front	Gray marine
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rear	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
1	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rear	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rear	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rear	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rear	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	5197159-F	Sleeve crankshaft seal	
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
	DETCAM2	NOTE	Cams listed are advanced timed, correct gear train position and key must be matched for correct timing
1	5149393-F	Camshaft	RH engines (A7, 5102665)
1	5149394	Camshaft	[Discontinued, check for reman] LH engines (A7, 5149394)
1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
18	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
18	8923814-F	Follower roller set	Includes: roller, bushing, pin
6	5106413-B	Guide cam follower	
12	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
12	103319-F	Lockwasher	1/4
18	5128640-F	Push rod	
18	5151601-F	Push rod nut	5/16 - 24, lock
18	5150303-F	Retainer push rod	Snap ring
18	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
18	5150302-F	Seat push rod spring	Upper
18	5123250-F	Seat push rod spring	Lower
6	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
6	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
6	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
6	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
6	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
12	5122445-F	Bushing rocker arm	Valve, large
18	8924354-F	Bushing rocker arm	Valve and injector, small
6	8924355-F	Bushing rocker arm	Injector, large
18	5150312-F	Clevis rocker arm	Valve and injector
18	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
18	5150314-F	Pin clevis	Valve and injector
6	23500714-F	Rocker shaft	
6	5140456	Rocker shaft	With nozzle, horizontal engines
12	5117565-F	Valve bridge	
12	5151601-F	Push rod nut	5/16 - 24, lock
12	5117564-F	Valve bridge guide	Press fit
from 4A85187, 6A94751			
VALVE TRAIN			
1	5198219C	Cylinder head	2 valve, complete; remanufactured
1	5102770B	Cylinder head	4 valve, bare; remanufactured
1	22-6-71-4V	Cylinder head	Remanufactured complete, 4-valve [Assy: 5102770; Cast: 5117435, 5144161]
	DETHD2	NOTE	Following parts and quantities are for two valve head
12	5193197-F	Valve exhaust	With locks, Std, "N" 30 degree (5185327 valve, 23507238 locks)
12	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
24	23507238-F	Valve lock	
12	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
12	5150291-F	Valve spring cap	
12	5150292-F	Valve spring seat	
12	5120930-F	Valve guide	
12	23500480-F	Valve guide seal	Metal case, teflon lip
12	8927920-F	Valve insert	Standard, 30 degree
12	5198230-F	Valve insert	.010 oversize, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
24	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
24	5149386-F	Valve exhaust	High HP marine & industrial, "TI" 30 degree; hi-output
48	5111337-F	Valve lock	
24	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
24	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
thru 4A85186, 6A94750			
24	5117563-F	Valve spring cap	
24	5117562-F	Valve spring seat	
24	5111467-F	Valve spring seat	
24	5129919-F	Valve guide	
24	8921209-F	Valve guide seal	Metal with teflon lip
24	5101101-F	Valve insert	Standard, 30 degree
24	5197167-F	Valve insert	.010 oversize, 30 degree
12	5129101-F	Screw	Adjusting, 5/16 - 24 x1
12	5196843-F	Guide valve bridge	Threaded type
thru 4A85186, 6A94750			
CRANKSHAFT			
1	5107033-B	Crankshaft	
1	23507306-F	Spacer crank seal	Front, 2-13/16 length
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
1	5192496-F	Spacer crank seal	Rear, not for double lip seal
1	5100421-F	Damper vibration	Heavy rubber

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
1	5177763-F	Damper vibration	Light viscous, 10.8 OD
1	8922491-F	Damper vibration	Viscous heavy, 12.3 OD
1	8925437-F	Damper vibration	Heavy viscous
1	8928951-F	Damper vibration	Viscous heavy, 12.3 OD
1	5120287	Hub assembly	[Discontinued] Damper
1	5179011	Hub assembly	[Discontinued] Damper
1	5134917-F	Cone damper	0.531 length, front
1	5151344-F	Cone damper	0.687 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	23502705-F	Cone damper	2.12 length, rear
1	8928674-F	Cone damper	2.43 length, rear
1	23507296-F	Cone damper	3.09 length, rear, with front PTO only
CONNECTING ROD			
12	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
12	5117629-F	Nut connecting rod	7/16 - 20
6	5150140-F	Nozzle connecting rod	Spray
6	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	8547563-F	Oil cooler core	8 plate
1	8547581-F	Oil cooler core	13 plate, single stack
1	8547236-F	Oil cooler core	13 plate, single stack
1	5177777-F	Bypass valve	Oil cooler bypass
1	5133431-F	Bypass valve	Oil cooler by-pass, oil filter relief
1	5177778-F	Bypass spring	
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	5153902-F	Gasket oil cooler	Oil cooler housing pad cover
2	5150154-F	Gasket oil cooler	Oil cooler adaptor to block
1	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
2	5112401-F	Gasket oil cooler	Oil cooler adaptor to block and housing pad cover
1	5159430-F	Gasket oil cooler	Oil cooler adaptor to block
1	5159447-F	Gasket oil cooler	Oil cooler inlet and outlet tube
1	5104381-F	Gasket oil regulator	Oil pressure regulator body, Type 23
1	5154199-F	Gasket oil regulator	Oil pressure regulator body, Type 1, 2, 21
1	5156831-F	Gasket oil regulator	Oil pressure regulator body, Type 3
1	5151370-F	Gasket oil pump pad	1-7/8 bolt center
1	5153313-F	Gasket oil pump pad	2-1/8 bolt center
FUEL / INJECTOR			
6	5228310R-P	Injector reman HV60	
6	5228305R-P	Injector reman HV70	
6	5228110R-P	Injector reman HV80	
6	5228380R-P	Injector reman HV90	
6	5229355R-P	Injector reman	
6	5229360R-P	Injector reman	
6	5229365R-P	Injector reman	
6	5229370R-P	Injector reman	
6	5227015R-P	Injector reman	

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
6	5228785R-P	Injector reman	
6	5228760R-P	Injector reman N60	
6	5228765R-B	Injector	N65 (White tag)
6	5228900R-P	Injector reman	
6	5228770R-P	Injector reman	
6	5228777R-P	Injector reman	
6	5228780R-P	Injector reman	
6	5228790R-P	Injector reman	
6	5229352R-P	Injector reman	
6	5229790R-P	Injector reman	
6	5229795R-P	Injector reman	
6	5229800R-P	Injector reman	
6	5229820R-P	Injector reman	7E75, remanufactured
6	5229895R-P	Injector reman	
6	5229900R-P	Injector reman	
6	5229905R-P	Injector reman	
6	5229700R-P	Injector reman	
6	5229695R-P	Injector reman	
6	5226440R-P	Injector reman	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5150193-F	Gasket fuel pump mtg	
12	5117369-F	Fuel connector	Flared style
12	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
12	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
6	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
6	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	WP1257-PR	Water pump	Remanufactured; Right hand outlet, standard capacity, cast 5186574, 5178318, 5135602 [23506735, 5149707, 5135596, 5159060, 5186576]
1	WP1257A-PR	Water pump	Remanufactured; Left hand outlet, standard capacity, cast 5178317, 5186573, 5135601 [23506723, 5135601, 5149706, 5159059]
1	WP601-PR	Water pump	Remanufactured; Right hand outlet, high capacity, cast 8920918, 5182070, 5135611 [23506711, 5149708, 8920916]
1	WP601A-PR	Water pump	Remanufactured; Left hand outlet, high capacity, cast 5182069, 8920917 [5149710, 23506704]
2	5172141-F	Thermostat	173F [type 1] [marked 4A357-010]
1	5104238-F	Thermostat	173F, partial blocking choke and shield [type 3]
1	5184475-F	Thermostat	173F [type 1]
1	5133357-F	Thermostat	180F [type 1]
1	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
2	23503827-F	Thermostat	160F
2	23503828-F	Thermostat	165F, use with seal, Weir type [type 2]
2	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	5132155-F	Thermostat seal	
2	5169478-F	Gasket thermostat	Housing
1	5167761-F	Gasket thermostat	Housing at expansion tank
1	5153560-F	Seal water pump	Inlet, 2-3/16 OD
1	5156770-F	Seal water pump	Inlet 2-3/4 OD

Detroit Diesel 106x-xxxx		6-71 Inline (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
1	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
2	5188036-F	Clamp water pump seal	Inlet for 2-3/4 diameter hose
1	5198307-F	Water pump kit	Repair kit, for damper assy 23503043 only
1	5149985-F	Water pump kit	Repair kit, standard capacity
1	23506851-F	Water pump kit	Repair kit, standard capacity, ceramic seal seat
1	5198308-F	Water pump kit	Repair kit, high capacity, carbon seal
1	5149917-B	Water pump kit	Repair kit, high capacity
1	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
1	5149918-F	Water pump kit	Repair kit, standard and high capacity: less impeller and shaft & bearing assy
1	23506858-F	Water pump kit	Repair kit, stD and high capacity: less impeller and shaft & bearing assy; contains ceramic seal seat
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	5120224-F	Gasket manifold exhaust ends, metal clad	
1	5120223-F	Gasket manifold exhaust diameter, metal clad	
2	5150195-F	Gasket manifold exhaust ends, center holes offset	
1	5150196-F	Gasket manifold exhaust diameter, use with 5150195	
1	5108377-F	Gasket exhaust outlet	use 23513711
1	23513711	Gasket exhaust outlet	3.25 bolt hole center, 3.50 hole dia
3	5108989-F	Gasket exhaust outlet	4.25 bolt hole center, 4.50 hole dia
1	5100147-F	Gasket exhaust outlet	3.58 bolt hole center, 3.50 hole dia, 1/2 bolt dia
1	5163811-F	Gasket exhaust outlet	5.375 bolt hole center (use 23504701)
1	23504701-F	Gasket exhaust outlet	5.375 bolt hole center, 4.38 hole dia
4	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
1	5192754-F	Set blower installation	
1	23514286-F	Set blower installation	For TA / TTA engines
1	5115656-F	Gasket blower mtg	Blower to block
1	5103601-F	Gasket blower inlet	With screen
1	5108120-F	Blower repair kit	Natural
1	23514204-F	Blower repair kit	Turbo, small bearing
1	5154640-F	Blower drive shaft	11-1/16 length, short
1	5168129-F	Blower drive shaft	7-1/6 length, long
1	5110799-F	Blower drive shaft	10-13/16 length, long
1	5193476-F	Blower drive shaft	11-15/16 length, long
1	5154637-F	Retainer blower drive	

Detroit Diesel		https://truckmanualshub.com/	
6V71		6 Cylinder	
706x-xxxx		Bore 4.250	
		Stroke 5.000	
ENGINE KITS			
1	6V71IF5307	InFrame kit	Turbo, trunk, 1.05 port, 2 valve
1	6V71OF5307	Overhual kit	Turbo, trunk, 1.05 port, 2 valve
1	6V71IF5306	InFrame kit	Non turbo, trunk, 1.05 port, 4 valve
1	6V71OF5306	Overhual kit	Non turbo, trunk, 1.05 port, 4 valve
1	6V71IF22473	InFrame kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	6V71OF22473	Overhual kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	6V71IF22949	InFrame kit	Non turbo, xhead, 1.05 or 0.95 port
1	6V71OF22949	Overhual kit	Non turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 30, 31, 32, 36, 40, 42, 45, 50, 52, 78, 81, 88, 92, 112, 164, 171			
6	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
6	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
6	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
6	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
6	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
6	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
6	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
6	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 38, 51, 111			
6	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
6	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
6	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]
6	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
6	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
6	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
6	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
6	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 129, 137, 167, 169, 170, 173, 219, 353			
6	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
6	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
6	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
6	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://truckmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
6	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
6	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
6	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 285			
6	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
6	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
6	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
6	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
6	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
6	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
6	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 138, 143, 174, 186, 201, 210, 211, 212, 213, 214, 286			
6	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
6	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
6	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
6	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
6	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
6	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]
6	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
6	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7		Xhead, TA, 0.95 port, 17:1, N75 & above, High output marine	
Option: 177, 287, 297, 307, 308			
6	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
6	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
6	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
6	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
6	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
6	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
6	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
	CK9		Xhead, Turbo, 1.05 port, 18.7:1
6	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
6	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
6	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
	CK10		Xhead, Turbo, 1.05 port, 17:1
6	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]
	CK8		TBC (Thermal Barrier Coating) Xhead; 60 HBP and above per cylinder engines
6	23522508-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
6	23522510-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
6	23522512-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
6	23522514-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
6	23522516-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
6	23522518-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
6	23522520-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
6	23522522-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
6	23522524-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
6	23522526-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
6	23522474-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
6	23522478-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
6	23522480-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
6	23522482-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
6	23522484-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
6	23522486-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
6	23522488-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
6	23522490-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
6	23522492-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
6	23522494-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
6	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
6	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
6	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
6	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
6	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
6	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
6	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
6	23522497-F	Piston kit	Kit, 18.7:1, xhead [23522026 crown, 23522070 skirt, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522945	Piston kit	Kit, 17.0:1, xhead [23521992 crown, 23522070 skirt, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522498-F	Piston kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522496-F	Piston kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522026-F	Piston crown	Xhead, 18.7:1
6	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23521992-F	Piston crown	Xhead, 17.0:1
6	23522536-F	Piston dome kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522175-F	Piston crown	Xhead, TBC, 18.7:1
6	23522476-F	Piston dome kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
6	23522160-F	Piston crown	Xhead, TBC, 17.0:1
6	23522070-F	Piston skirt	for xhead pistons
6	23501687-F	Slipper bearing	for xhead pistons
6	8922221-F	Piston seal	for xhead pistons
12	5144846-F	Spacer piston bolt	for xhead pistons
12	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
6	5188406-F	Piston pin	1.50 diameter, trunk
6	5144495-F	Piston pin	1.50 diameter, drilled, trunk
6	5130881-F	Piston pin	Trunk, turbo non-drilled, military
6	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
6	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
12	5188405-F	Retainer piston pin	For trunk pistons
12	5180250-F	Retainer piston pin	for xhead pistons
6	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
6	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
6	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
6	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
6	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
6	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
6	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
6	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
6	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
6	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
6	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
6	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
6	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
6	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
6	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
6	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
6	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA
6	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
6	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
6	5199569-F	Shim cylinder liner	.0020 thick, High block
6	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
6	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
6	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
6	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; .1715 - .1720, Std thru .005 OS liner
6	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
6	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner
6	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
6	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
6	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
6	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
6	5149572-F	Bearing rod pair	Std
	5149573-F	Bearing rod pair	.002
	5149575-F	Bearing rod pair	.010
	5149577-F	Bearing rod pair	.020
	5149579-F	Bearing rod pair	.030
6	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
4	5149556-F	Bearing main pair	Std; Non-turbo, non-slotted
	5149557-F	Bearing main pair	.002; Non-turbo, non-slotted
	5149559-F	Bearing main pair	.010; Non-turbo, non-slotted
	5149561-F	Bearing main pair	.020; Non-turbo, non-slotted
	5149563-F	Bearing main pair	.030; Non-turbo, non-slotted
4	5149565-F	Bearing main pair	Std; Turbo, slotted
	5149566-F	Bearing main pair	.002; Turbo, slotted
	5149567-F	Bearing main pair	.010; Turbo, slotted
	5149568-F	Bearing main pair	.020; Turbo, slotted
	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
	5196753-F	Thrust washer	.005 oversize
	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
4	5196026-F	Bearing cam	Intermediate, std
2	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
2	5117984-F	Bearing cam	Front
4	5111424-F	Thrust washer cam	
12	5157274-F	Bushing con rod	Non-turbo, trunk
12	5155839-F	Bushing piston pin	Trunk, pressed into piston
GASKET & SEALS			
1	23512678-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
1	23512677-F	Set overhaul	Coach engines; Does not include crankshaft seals or rocker cover gaskets
2	5196380-F	Set cylinder head	Does not include rocker cover gaskets
1	5196376-F	Set supplemental	Marine engines
	G1	UPPER GASKETS	
6	5103659-F	Gasket cylinder head	Compression; High block
2	5143405-F	Gasket valve cover	Stamped steel cover, neoprene, flat
2	5104018-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
4	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	5144875-F	Gasket flywheel hsg	Housing to end plate
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
4	5104507-F	Gasket flywheel cvr	Small hole, star shaped
1	5123638-F	Gasket front cover	Upper
1	5121714-F	Gasket front cover	Lower
	G5	PAN GASKETS	
1	23503588-F	Gasket oil pan	Oil pan to block, stamped pan
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft front/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
1	5117858	Camshaft	[Discontinued, check for reman] Left bank, RH engine (5117869)
1	5117857	Camshaft	[Discontinued, check for reman] Right bank, RH engine (5117870)
1	5117860	Camshaft	[Discontinued, check for reman] Left bank, LH engine (5117875)
1	5146163-B	Camshaft	Right bank, LH engine (5145919)
1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
18	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
18	8923814-F	Follower roller set	Includes: roller, bushing, pin
6	5106413-B	Guide cam follower	
12	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
12	103319-F	Lockwasher	1/4
18	5128640-F	Push rod	
18	5151601-F	Push rod nut	5/16 - 24, lock
18	5150303-F	Retainer push rod	Snap ring
18	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
18	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
18	5150302-F	Seat push rod spring	Upper
18	5123250-F	Seat push rod spring	Lower
6	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
6	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
6	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
6	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
6	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
6	5122445-F	Bushing rocker arm	Valve, large
12	8924354-F	Bushing rocker arm	Valve and injector, small
6	8924355-F	Bushing rocker arm	Injector, large
18	5150312-F	Clevis rocker arm	Valve and injector
18	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
18	5150314-F	Pin clevis	Valve and injector
6	23500714-F	Rocker shaft	
12	5117565-F	Valve bridge	
VALVE TRAIN			
2	5102769B	Cylinder head	4 valve, bare; remanufactured
2	5102769C	Cylinder head	4 valve, complete; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
12	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
24	23507238-F	Valve lock	
12	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
12	5150291-F	Valve spring cap	
12	5150292-F	Valve spring seat	
12	5120930-F	Valve guide	
12	23500480-F	Valve guide seal	Metal case, teflon lip
12	8927920-F	Valve insert	Standard, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
24	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
24	5149386-F	Valve exhaust	High HP marine & industrial, "TI" 30 degree; hi-output
48	5111337-F	Valve lock	
24	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
24	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
24	5117563-F	Valve spring cap	
24	5117562-F	Valve spring seat	
24	5129919-F	Valve guide	
24	8921209-F	Valve guide seal	Metal with teflon lip
24	5101101-F	Valve insert	Standard, 30 degree
	5197167-F	Valve insert	.010 oversize, 30 degree
CRANKSHAFT			
1	5146733-F	Crankshaft	
CONNECTING ROD			
6	5109903	Connecting rod	Trunk, cast# 5117002

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.250 Stroke 5.000
6	5135756	Connecting rod	Trunk, cast# 5135051
6	5135760	Connecting rod	Trunk turbo, cast# 5125239
6	5144848	Connecting rod	Crosshead, cast# 5144348
6	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
12	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
12	5117629-F	Nut connecting rod	7/16 - 20
6	5150140-F	Nozzle connecting rod	Spray
6	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	5117242-F	Gasket oil sump	Inlet pipe at pump; 3.00 bolt center
1	5163780	Gasket oil sump	[Discontinued] Inlet pipe; 2-21/32 bolt center
1	5126160-F	Gasket oil sump	Inlet pipe; 1.80 bolt center
2	5126161	Gasket oil sump	[Discontinued] Inlet pipe; 2.50 bolt center
1	8547236-F	Oil cooler core	13 plate, single stack
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547547-F	Oil cooler core	16 plate, single stack
1	8547551-F	Oil cooler core	8 plate, single stack
1	8547553-F	Oil cooler core	16 plate, double stack
1	8547555-B	Oil cooler core	12 plate, single stack, double base
1	8547581-F	Oil cooler core	13 plate, single stack
1	5149052	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149053	Oil cooler core	[Discontinued, check for reman] Tube bundle
2	5108071	Oil cooler seal	[Discontinued] For tube type cores, 2 per core required
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	8923222-F	Gasket oil cooler	Plate to adaptor; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	23501587-F	Gasket oil cooler	Element to block; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	23501584-F	Gasket oil cooler	Core outer; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
2	5117535-F	Gasket oil cooler	Adaptor to block
3	8920763-F	Gasket oil cooler	Adaptor to block, .385 ID x 1 OD x .013 thick
1	8923512-F	Gasket oil cooler	Adaptor cover
1	23501594-F	Gasket oil cooler	Adaptor cover
1	23501596-F	Gasket oil cooler	Adaptor cover
2	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
1	5149946-F	Set oil cooler adaptor	
FUEL / INJECTOR			
6	5229350R-P	Injector reman	
6	5229355R-P	Injector reman	
6	5229360R-P	Injector reman	
6	5229365R-P	Injector reman	
6	5229370R-P	Injector reman	
6	5227015R-P	Injector reman	
6	5228785R-P	Injector reman	
6	5228760R-P	Injector reman N60	
6	5228765R-B	Injector	N65 (White tag)
6	5228900R-P	Injector reman	
6	5228770R-P	Injector reman	
6	5228777R-P	Injector reman	

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
6	5228780R-P	Injector reman	
6	5228790R-P	Injector reman	
6	5229352R-P	Injector reman	
6	5229785R-B	Injector	7E50, remanufactured
6	5229790R-P	Injector reman	
6	5229795R-P	Injector reman	
6	5229800R-P	Injector reman	
6	5229820R-P	Injector reman	7E75, remanufactured
6	5229690R-B	Injector	7A50, remanufactured
6	5229685R-P	Injector reman	
6	5229680R-B	Injector	7A60, remanufactured
6	5229665R-P	Injector reman	
6	5229670R-B	Injector	7A70, remanufactured
6	5229675R-P	Injector reman	
6	5229895R-P	Injector reman	
6	5229900R-P	Injector reman	
6	5229905R-P	Injector reman	
6	5229700R-P	Injector reman	
6	5229695R-P	Injector reman	
6	5226440R-P	Injector reman	
6	8925981-F	Injector tube kit	Copper, pre-reamed with seal
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	23512243-F	Fuel pump kit	Fuel pump seals
1	5154216-F	Fuel pump drive	Coupling
1	5150193-F	Gasket fuel pump mtg	
4	8926992-F	Fuel connector	Flared type
4	5152148-F	Fuel connector washer	25/64ID x 9/16 OD x 1/16 thick, copper
6	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
6	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
6	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
1	5110760-B	Primer hand pump	
1	8924869-F	Governor cover gsk	Mechanical governor
COOLING SYSTEM			
1	7105X-BP	Water pump	Remanufactured; Standing, standard capacity, with heater bypass; cast 5106160, 5117921, 5135455 [23501938, 5149328]
1	WP1395-PR	Water pump	Remanufactured; Standing, high capacity, with heater bypass; cast 5117921, 5135455 [23506790, 5149326]
1	7118X-BP	Water pump	Remanufactured, Standing, high capacity, reverse gear, cast 5117921, 5135455 [23506670, 5149382]
1	7106X-BP	Water pump	Remanufactured; Running, standard capacity, with heater bypass; cast 5142273, 5134621 [23501939, 5149329]
1	WP1396A-PR	Water pump	Remanufactured; Running, high capacity, with heater bypass; cast 5142273 [23506791, 5149327]
1	WP1396R-PR	Water pump	Remanufactured; Running, high capacity, reverse gear, with heater bypass, cast 5142273 [23506698, 5149381]
1	7111X-BP	Water pump	Remanufactured; Walking, bolt on cover plate on back, cast 5101802 [5149320]
Coach			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
2	5102112-F	Thermostat	160F, full blocking, use seal
2	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]

Detroit Diesel 706x-xxxx		6V71 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.250 Stroke 5.000
2	681830	Thermostat	180F non-vented [23503825]
2	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
2	5132155-F	Thermostat seal	
2	5117993-F	Gasket thermostat	LB and RB housing to head
1	5123570-F	Gasket thermostat	RB housing to head
2	5117786-F	Gasket thermostat	Cover to housing
2	5133450-F	Gasket thermostat	Cover to housing - rapid warm up
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
1	5170466-F	Gasket turbo	
2	5122866-F	Gasket manifold exhaust	metal clad
4	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
1	5108120-F	Blower repair kit	Natural
1	23514203-F	Blower repair kit	Turbo, smal bearing 2.047 OD
1	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149646-F	Set blower installation	Non turbo
1	5149641-F	Set blower installation	Turbo
1	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
1	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
1	8923959-F	Seal bypass valve	
1	5117724-F	Blower drive shaft	48 teeth, .625 dia x 5.22 lng (Marine appl eff w/ 6VA-50622, 8VA-81197)
1	8922666-F	Blower drive shaft	29 spline, 0.790 diameter x 4.89 length
2	8923792-F	Gasket air box	Small cover WBP block
2	8923791-F	Gasket air box	Large cover WBP block
1	5103515-F	Gasket blower inlet	With screen
2	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
1	5104978-F	Seal blower inlet	Square cross section

Detroit Diesel		https://truckmanualshub.com/	
8V71		8-Cylinder	
708x-xxxx		Bore 4.250	
		Stroke 5.000	
ENGINE KITS			
1	8V71IF5307	InFrame kit	Turbo, trunk, 1.05 port, 2 valve
1	8V71OF5307	Overhual kit	Turbo, trunk, 1.05 port, 2 valve
1	8V71IF5306	InFrame kit	Non turbo, trunk, 1.05 port, 4 valve
1	8V71OF5306	Overhual kit	Non turbo, trunk, 1.05 port, 4 valve
1	8V71IF22473	InFrame kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	8V71OF22473	Overhual kit	Turbo or TA, xhead, 1.05 or 0.95 port
1	8V71IF22949	InFrame kit	Non turbo, xhead, 1.05 or 0.95 port
1	8V71OF22949	Overhual kit	Non turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 30, 31, 32, 36, 40, 42, 45, 50, 52, 78, 81, 88, 92, 112, 164, 171			
8	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
8	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
8	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
8	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
8	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
8	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
8	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
8	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 38, 51, 111			
8	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
8	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
8	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]
8	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
8	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
8	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
8	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
8	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 129, 137, 167, 169, 170, 173, 219, 353			
8	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
8	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
8	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
8	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://truckmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
8	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
8	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
8	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
8	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 285			
8	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
8	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
8	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
8	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
8	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
8	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
8	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 138, 143, 174, 186, 201, 210, 211, 212, 213, 214, 286			
8	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
8	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
8	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
8	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
8	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
8	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]
8	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
8	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7		Xhead, TA, 0.95 port, 17:1, N75 & above, High output marine	
Option: 177, 287, 297, 307, 308			
8	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
8	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
8	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
8	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
8	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
8	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
8	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
	CK9		Xhead, Turbo, 1.05 port, 18.7:1
8	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
8	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
8	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
	CK10		Xhead, Turbo, 1.05 port, 17:1
8	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]
	CK8		TBC (Thermal Barrier Coating) Xhead; 60 HBP and above per cylinder engines
8	23522508-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
8	23522510-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
8	23522512-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
8	23522514-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
8	23522516-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
8	23522518-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
8	23522520-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
8	23522522-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
8	23522524-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
8	23522526-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
8	23522474-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
8	23522478-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
8	23522480-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
8	23522482-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
8	23522484-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
8	23522486-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
8	23522488-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
8	23522490-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
8	23522492-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
8	23522494-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
8	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
8	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
8	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
8	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
8	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
8	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
8	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
8	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
8	23522497-F	Piston kit	Kit, 18.7:1, xhead [23522026 crown, 23522070 skirt, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522945	Piston kit	Kit, 17.0:1, xhead [23521992 crown, 23522070 skirt, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522498-F	Piston kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522496-F	Piston kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522026-F	Piston crown	Xhead, 18.7:1
8	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23521992-F	Piston crown	Xhead, 17.0:1
8	23522536-F	Piston dome kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522175-F	Piston crown	Xhead, TBC, 18.7:1
8	23522476-F	Piston dome kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
8	23522160-F	Piston crown	Xhead, TBC, 17.0:1
8	23522070-F	Piston skirt	for xhead pistons
8	23501687-F	Slipper bearing	for xhead pistons
8	8922221-F	Piston seal	for xhead pistons
16	5144846-F	Spacer piston bolt	for xhead pistons
16	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
8	5188406-F	Piston pin	1.50 diameter, trunk
8	5144495-F	Piston pin	1.50 diameter, drilled, trunk
8	5130881-F	Piston pin	Trunk, turbo non-drilled, military
8	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
8	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
16	5188405-F	Retainer piston pin	For trunk pistons
16	5180250-F	Retainer piston pin	for xhead pistons
8	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
8	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
8	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
8	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
8	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
8	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
8	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
8	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
8	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
8	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
8	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
8	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
8	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
8	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
8	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
8	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
8	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
8	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA
8	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
8	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
8	5199569-F	Shim cylinder liner	.0020 thick, High block
8	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
8	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
8	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
8	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; .1715 - .1720, Std thru .005 OS liner
8	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
8	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner
8	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
8	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
8	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
8	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
8	5149572-F	Bearing rod pair	Std
	5149573-F	Bearing rod pair	.002
	5149575-F	Bearing rod pair	.010
	5149577-F	Bearing rod pair	.020
	5149579-F	Bearing rod pair	.030
8	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
5	5149556-F	Bearing main pair	Std; Non-turbo, non-slotted
	5149557-F	Bearing main pair	.002; Non-turbo, non-slotted
	5149559-F	Bearing main pair	.010; Non-turbo, non-slotted
	5149561-F	Bearing main pair	.020; Non-turbo, non-slotted
	5149563-F	Bearing main pair	.030; Non-turbo, non-slotted
5	5149565-F	Bearing main pair	Std; Turbo, slotted
	5149566-F	Bearing main pair	.002; Turbo, slotted
	5149567-F	Bearing main pair	.010; Turbo, slotted
	5149568-F	Bearing main pair	.020; Turbo, slotted
	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
	5196753-F	Thrust washer	.005 oversize
	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
6	5196026-F	Bearing cam	Intermediate, std
2	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
2	5117984-F	Bearing cam	Front
4	5111424-F	Thrust washer cam	
16	5157274-F	Bushing con rod	Non-turbo, trunk
16	5155839-F	Bushing piston pin	Trunk, pressed into piston
GASKET & SEALS			
1	23512680-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
1	23512679-F	Set overhaul	Coach engines; Does not include crankshaft seals or rocker cover gaskets
2	5196381-F	Set cylinder head	Does not include rocker cover gaskets
1	5196376-F	Set supplemental	Marine engines
G1		UPPER GASKETS	
8	5103659-F	Gasket cylinder head	Compression; High block
2	5143406-F	Gasket valve cover	Stamped steel cover, neoprene, flat
2	5104081-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
4	5104515-F	Isolator valve cover	For cast aluminum cover
G4		LOWER GASKETS	
1	5144875-F	Gasket flywheel hsg	Housing to end plate
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
4	5104507-F	Gasket flywheel cvr	Small hole, star shaped
1	5123638-F	Gasket front cover	Upper
1	5121714-F	Gasket front cover	Lower
G5		PAN GASKETS	
1	5117231-F	Gasket oil pan	Oil pan to block, stamped pan
G3		CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	5143108-F	Seal crankshaft front	Submersible
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft front/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Front on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
	5197860-F	Seal crankshaft front/rear	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rear	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rear	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rear	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rear	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
CAMSHAFT			
1	5117854	Camshaft	[Discontinued, check for reman] Left bank, RH engine (5117871)
1	5117853-F	Camshaft	Right bank, RH engine (5117872)
1	5117856	Camshaft	[Discontinued, check for reman] Left bank, LH engine (5117877)
1	5146074	Camshaft	[Discontinued, check for reman] Right bank, LH engine (5139796)
1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8 Cylinder Bore 4.250 Stroke 5.000
24	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
24	8923814-F	Follower roller set	Includes: roller, bushing, pin
8	5106413-B	Guide cam follower	
16	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
16	103319-F	Lockwasher	1/4
24	5128640-F	Push rod	
24	5151601-F	Push rod nut	5/16 - 24, lock
24	5150303-F	Retainer push rod	Snap ring
24	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
24	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
24	5150302-F	Seat push rod spring	Upper
24	5123250-F	Seat push rod spring	Lower
8	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
8	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
8	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
8	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
8	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
8	5122445-F	Bushing rocker arm	Valve, large
16	8924354-F	Bushing rocker arm	Valve and injector, small
8	8924355-F	Bushing rocker arm	Injector, large
24	5150312-F	Clevis rocker arm	Valve and injector
24	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
24	5150314-F	Pin clevis	Valve and injector
8	23500714-F	Rocker shaft	
16	5117565-F	Valve bridge	
VALVE TRAIN			
2	5102771B	Cylinder head	4 valve, bare; remanufactured
2	5102771C	Cylinder head	4 valve, complete; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
16	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
32	23507238-F	Valve lock	
16	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
16	5150291-F	Valve spring cap	
16	5150292-F	Valve spring seat	
16	5120930-F	Valve guide	
16	23500480-F	Valve guide seal	Metal case, teflon lip
16	8927920-F	Valve insert	Standard, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
32	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
32	5149386-F	Valve exhaust	High HP marine & industrial, "TI" 30 degree; hi-output
64	5111337-F	Valve lock	
32	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
32	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
32	5117563-F	Valve spring cap	
32	5117562-F	Valve spring seat	
32	5129919-F	Valve guide	
32	8921209-F	Valve guide seal	Metal with teflon lip
32	5101101-F	Valve insert	Standard, 30 degree
	5197167-F	Valve insert	.010 oversize, 30 degree
CRANKSHAFT			
1	5103264-F	Crankshaft	

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD
1	8928951-F	Damper vibration	Viscous heavy, 12.3 OD
1	8922491-F	Damper vibration	Viscous heavy, 12.3 OD
1	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	5134917-F	Cone damper	0.531 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
CONNECTING ROD			
8	5109903	Connecting rod	Trunk, cast# 5117002
8	5135756	Connecting rod	Trunk, cast# 5135051
8	5135760	Connecting rod	Trunk turbo, cast# 5125239
8	5144848	Connecting rod	Crosshead, cast# 5144348
8	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
16	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
16	5117629-F	Nut connecting rod	7/16 - 20
8	5150140-F	Nozzle connecting rod	Spray
8	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	5117242-F	Gasket oil sump	Inlet pipe at pump; 3.00 bolt center
3	5163780	Gasket oil sump	[Discontinued] Inlet pipe; 2-21/32 bolt center
1	5126160-F	Gasket oil sump	Inlet pipe; 1.80 bolt center
2	5126161	Gasket oil sump	[Discontinued] Inlet pipe; 2.50 bolt center
1	8547195-F	Oil cooler core	18 plate, single stack
1	8547236-F	Oil cooler core	13 plate, single stack
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547547-F	Oil cooler core	16 plate, single stack
1	8547551-F	Oil cooler core	8 plate, single stack
1	8547553-F	Oil cooler core	16 plate, double stack
1	8547561	Oil cooler core	[Discontinued, check for reman] 24 plate, 12-engine / 12-marine gear
1	5149052	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149053	Oil cooler core	[Discontinued, check for reman] Tube bundle
2	5108071	Oil cooler seal	[Discontinued] For tube type cores, 2 per core required
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	8923222-F	Gasket oil cooler	Plate to adaptor; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	23501587-F	Gasket oil cooler	Element to block; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	23501584-F	Gasket oil cooler	Core outer; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
2	5117535-F	Gasket oil cooler	Adaptor to block
3	8920763-F	Gasket oil cooler	Adaptor to block, .385 ID x 1 OD x .013 thick
1	8923512-F	Gasket oil cooler	Adaptor cover
1	23501594-F	Gasket oil cooler	Adaptor cover
1	23501596-F	Gasket oil cooler	Adaptor cover
2	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
1	5149946-F	Set oil cooler adaptor	
FUEL / INJECTOR			
8	5229350R-P	Injector reman	

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
8	5229355R-P	Injector reman	
8	5229360R-P	Injector reman	
8	5229365R-P	Injector reman	
8	5229370R-P	Injector reman	
8	5227015R-P	Injector reman	
8	5228785R-P	Injector reman	
8	5228760R-P	Injector reman N60	
8	5228765R-B	Injector	N65 (White tag)
8	5228900R-P	Injector reman	
8	5228770R-P	Injector reman	
8	5228777R-P	Injector reman	
8	5228780R-P	Injector reman	
8	5228790R-P	Injector reman	
8	5229352R-P	Injector reman	
8	5229785R-B	Injector	7E50, remanufactured
8	5229790R-P	Injector reman	
8	5229795R-P	Injector reman	
8	5229800R-P	Injector reman	
8	5229820R-P	Injector reman	7E75, remanufactured
8	5229690R-B	Injector	7A50, remanufactured
8	5229685R-P	Injector reman	
8	5229680R-B	Injector	7A60, remanufactured
8	5229665R-P	Injector reman	
8	5229670R-B	Injector	7A70, remanufactured
8	5229675R-P	Injector reman	
8	5229895R-P	Injector reman	
8	5229900R-P	Injector reman	
8	5229905R-P	Injector reman	
8	5229700R-P	Injector reman	
8	5229695R-P	Injector reman	
8	5226440R-P	Injector reman	
8	8925981-F	Injector tube kit	Copper, pre-reamed with seal
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	23512243-F	Fuel pump kit	Fuel pump seals
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
1	5150193-F	Gasket fuel pump mtg	
6	5117369-F	Fuel connector	Flared style
6	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
8	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
8	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
8	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
1	5110760-B	Primer hand pump	
1	8924869-F	Governor cover gsk	Mechanical governor
COOLING SYSTEM			
1	7105X-BP	Water pump	Remanufactured; Standing, standard capacity, with heater bypass; cast 5106160, 5117921, 5135455 [23501938, 5149328]

Detroit Diesel 708x-xxxx		8V71 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.250 Stroke 5.000
1	WP1395R-PR	Water pump	Remanufactured; Standing, reverse gear, with heater bypass; cast 5117921, 5135455 [23506670, 5149382]
1	7118X-BP	Water pump	Remanufactured, Standing, high capacity, reverse gear, cast 5117921, 5135455 [23506670, 5149382]
1	7106X-BP	Water pump	Remanufactured; Running, standard capacity, with heater bypass; cast 5142273, 5134621 [23501939, 5149329]
1	WP1396A-PR	Water pump	Remanufactured; Running, high capacity, with heater bypass; cast 5142273 [23506791, 5149327]
1	WP1396R-PR	Water pump	Remanufactured; Running, high capacity, reverse gear, with heater bypass, cast 5142273 [23506698, 5149381]
1	7111X-BP	Water pump	Remanufactured; Walking, bolt on cover plate on back, cast 5101802 [5149320]
Coach			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
2	5102112-F	Thermostat	160F, full blocking, use seal
2	23503828-F	Thermostat	165F, use with seal, Weir type [type 2]
2	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
2	5104238-F	Thermostat	173F, partial blocking choke and shield [type 3]
2	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
2	5132155-F	Thermostat seal	
2	5117993-F	Gasket thermostat	LB and RB housing to head
1	5123570-F	Gasket thermostat	RB housing to head
2	5117786-F	Gasket thermostat	Cover to housing
2	5133450-F	Gasket thermostat	Cover to housing - rapid warm up
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
1	5170466-F	Gasket turbo	
4	5120224-F	Gasket manifold exhaust ends, metal clad	
4	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
1	5108120-F	Blower repair kit	Natural
1	23514203-F	Blower repair kit	Turbo, smal bearing 2.047 OD
1	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149644-F	Set blower installation	Non turbo
1	5149643-F	Set blower installation	Turbo
1	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
1	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
1	8923959-F	Seal bypass valve	
1	5117724-F	Blower drive shaft	48 teeth, .625 dia x 5.22 lng (Marine appl eff w/ 6VA-50622, 8VA-81197)
1	5130295-F	Blower drive shaft	48 teeth, .625 diameter x 7.00 length
1	5117725-F	Blower drive shaft	48 teeth, .625 dia x 7.00 lng (Marine appl eff w/ 6VA-50622, 8VA-81197)
1	5124095-F	Blower drive shaft	48 teeth, .625 dia x 7.86 lng (Marine eff thru 6VA-50621, 8VA-81196)
1	8922634-F	Blower drive shaft	29 spline, 0.790 diameter x 6.67 length
4	8923792-F	Gasket air box	Small cover WBP block
2	8923791-F	Gasket air box	Large cover WBP block
1	5103602-F	Gasket blower inlet	With screen
1	5102062-F	Gasket blower inlet	Without screen
2	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
1	5104978-F	Seal blower inlet	Square cross section

Detroit 12V71		https://truckmanualshub.com/	
Diesel		12 Cylinder	
712x-xxxx		Bore 4.250 Stroke 5.000	
CYLINDER KIT			
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 30, 31, 32, 36, 40, 42, 45, 50, 52, 78, 81, 88, 92, 112, 164, 171			
12	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
12	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
12	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
12	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
12	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
12	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
12	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
12	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 38, 51, 111			
12	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
12	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
12	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]
12	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
12	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
12	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
12	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
12	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 129, 137, 167, 169, 170, 173, 219, 353			
12	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
12	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
12	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
12	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]
12	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
12	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
12	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
12	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 285			

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
12	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
12	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
12	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
12	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
12	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
12	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
12	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 138, 143, 174, 186, 201, 210, 211, 212, 213, 214, 286			
12	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
12	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
12	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
12	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
12	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
12	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]
12	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
12	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7		Xhead, TA, 0.95 port, 17:1, N75 & above, High output marine	
Option: 177, 287, 297, 307, 308			
12	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
12	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
12	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
12	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
12	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
12	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
12	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]
CK9		Xhead, Turbo, 1.05 port, 18.7:1	
12	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
12	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
12	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
CK10		Xhead, Turbo, 1.05 port, 17:1	
12	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
CK8		TBC (Thermal Barrier Coating) Xhead; 60 HBP and above per cylinder engines	
12	23522508-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
12	23522510-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
12	23522512-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
12	23522514-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
12	23522516-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
12	23522518-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
12	23522520-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
12	23522522-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
12	23522524-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
12	23522526-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
12	23522474-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
12	23522478-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
12	23522480-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
12	23522482-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
12	23522484-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
12	23522486-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
12	23522488-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
12	23522490-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
12	23522492-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
12	23522494-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
12	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
12	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
12	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]
12	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
12	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
12	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
12	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
12	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
12	23522497-F	Piston kit	Kit, 18.7:1, xhead [23522026 crown, 23522070 skirt, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
12	23522945	Piston kit	Kit, 17.0:1, xhead [23521992 crown, 23522070 skirt, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522498-F	Piston kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522496-F	Piston kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522026-F	Piston crown	Xhead, 18.7:1
12	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23521992-F	Piston crown	Xhead, 17.0:1
12	23522536-F	Piston dome kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522175-F	Piston crown	Xhead, TBC, 18.7:1
12	23522476-F	Piston dome kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
12	23522160-F	Piston crown	Xhead, TBC, 17.0:1
12	23522070-F	Piston skirt	for xhead pistons
12	23501687-F	Slipper bearing	for xhead pistons
12	8922221-F	Piston seal	for xhead pistons
24	5144846-F	Spacer piston bolt	for xhead pistons
24	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
12	5188406-F	Piston pin	1.50 diameter, trunk
12	5144495-F	Piston pin	1.50 diameter, drilled, trunk
12	5130881-F	Piston pin	Trunk, turbo non-drilled, military
12	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
12	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
24	5188405-F	Retainer piston pin	For trunk pistons
24	5180250-F	Retainer piston pin	for xhead pistons
12	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
12	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
12	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
12	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
12	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
12	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
12	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
12	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
12	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
12	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
12	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)
12	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
12	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
12	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
12	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
12	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
12	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
12	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
12	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
12	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
12	5199569-F	Shim cylinder liner	.0020 thick, High block
12	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
12	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
12	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
12	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; .1715 - .1720, Std thru .005 OS liner
12	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
12	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner
12	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
12	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
12	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
12	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
12	5149572-F	Bearing rod pair	Std
	5149573-F	Bearing rod pair	.002
	5149575-F	Bearing rod pair	.010
	5149577-F	Bearing rod pair	.020
	5149579-F	Bearing rod pair	.030
12	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
7	5149556-F	Bearing main pair	Std; Non-turbo, non-slotted
	5149557-F	Bearing main pair	.002; Non-turbo, non-slotted
	5149559-F	Bearing main pair	.010; Non-turbo, non-slotted
	5149561-F	Bearing main pair	.020; Non-turbo, non-slotted
	5149563-F	Bearing main pair	.030; Non-turbo, non-slotted
7	5149565-F	Bearing main pair	Std; Turbo, slotted
	5149566-F	Bearing main pair	.002; Turbo, slotted
	5149567-F	Bearing main pair	.010; Turbo, slotted
	5149568-F	Bearing main pair	.020; Turbo, slotted
	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
	5196753-F	Thrust washer	.005 oversize
	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
10	5196026-F	Bearing cam	Intermediate, std
2	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
2	5117984-F	Bearing cam	Front
4	5111424-F	Thrust washer cam	
24	5157274-F	Bushing con rod	Non-turbo, trunk
24	5155839-F	Bushing piston pin	Trunk, pressed into piston

Detroit Diesel 712x-xxxx	12V71 (Continued)	https://truckmanualshub.com/	12 Cylinder Bore 4.250 Stroke 5.000
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GASKET & SEALS

1	23512681-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
2	5196382-F	Set cylinder head	Does not include rocker cover gaskets
1	5196378-F	Set supplemental	Marine engines
1	5196379-F	Set supplemental	Industrial engines
	G1	UPPER GASKETS	
12	5103659-F	Gasket cylinder head	Compression; High block
2	5143407-F	Gasket valve cover	Stamped steel cover, neoprene, flat
2	5104019-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
8	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	5144875-F	Gasket flywheel hsg	Housing to end plate
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
4	5104507-F	Gasket flywheel cvr	Small hole, star shaped
1	5123638-F	Gasket front cover	Upper
1	5121714-F	Gasket front cover	Lower
	G5	PAN GASKETS	
1	5109915-F	Gasket oil pan	Oil pan to block, cast pan
1	5125635-F	Gasket oil pan	Sump to sub pan
1	5124796-F	Gasket oil pan	Cover to sub-pan
1	29503153-F	Gasket oil regulator	
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	23514608-F	Seal crankshaft front	Single lip, RH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, red)
1	23514609-F	Seal crankshaft front	Single lip, LH rotation (2.875 shaft, 3.756 OD, .500 width, teflon, blue)
1	5114335-F	Seal crankshaft front/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	5127821-F	Seal crankshaft rear	Double lip, Std, non directional (4.687 shaft, 5.756 OD, .750 width)
	5196927-F	Seal crankshaft rear	Double lip, O/S, non directional (4.812 shaft, 5.756 OD)
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23504821-F	Seal crankshaft rear	Teflon, O/S, double lip, RH rotation (4.812 shaft, 5.756 OD)
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
	23507411-F	Seal crankshaft rear	Teflon, O/S, double lip, LH rotation (4.812 shaft, 5.756 OD)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)

CAMSHAFT

1	7451948-F	Bearing idler	Assembly
6	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
36	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
36	8923814-F	Follower roller set	Includes: roller, bushing, pin
12	5106413-B	Guide cam follower	
24	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
24	103319-F	Lockwasher	1/4
36	5128640-F	Push rod	
36	5151601-F	Push rod nut	5/16 - 24, lock
36	5150303-F	Retainer push rod	Snap ring
36	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
36	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix

Detroit Diesel		12V71	https://truckmanualshub.com/	
712x-xxxx		(Continued)	12 Cylinder	Bore 4.250 Stroke 5.000
36	5150302-F	Seat push rod spring	Upper	
36	5123250-F	Seat push rod spring	Lower	
12	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head	
12	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head	
12	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head	
12	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head	
12	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint	
12	5122445-F	Bushing rocker arm	Valve, large	
24	8924354-F	Bushing rocker arm	Valve and injector, small	
12	8924355-F	Bushing rocker arm	Injector, large	
36	5150312-F	Clevis rocker arm	Valve and injector	
36	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD	
36	5150314-F	Pin clevis	Valve and injector	
12	23500714-F	Rocker shaft		
24	5117565-F	Valve bridge		
VALVE TRAIN				
2	5198219B	Cylinder head	2 valve, bare, remanufactured	
2	5198219C	Cylinder head	2 valve, complete; remanufactured	
2	5102770B	Cylinder head	4 valve, bare; remanufactured	
2	22-6-71-4V	Cylinder head	Remanufactured complete, 4-valve [Assy: 5102770; Cast: 5117435, 5144161]	
	DETHD2	NOTE	Following parts and quantities are for two valve head	
24	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)	
48	23507238-F	Valve lock		
24	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix	
24	5150291-F	Valve spring cap		
24	5150292-F	Valve spring seat		
24	5120930-F	Valve guide		
24	23500480-F	Valve guide seal	Metal case, teflon lip	
24	8927920-F	Valve insert	Standard, 30 degree	
	DETHD1	NOTE	Following parts and quantities are for four valve head	
48	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)	
48	5149386-F	Valve exhaust	High HP marine & industrial, "T1" 30 degree; hi-output	
96	5111337-F	Valve lock		
48	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)	
48	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix	
48	5117563-F	Valve spring cap		
48	5117562-F	Valve spring seat		
48	5129919-F	Valve guide		
48	8921209-F	Valve guide seal	Metal with teflon lip	
48	5101101-F	Valve insert	Standard, 30 degree	
	5197167-F	Valve insert	.010 oversize, 30 degree	
CRANKSHAFT				
1	23502165-M	Crankshaft		
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD	
1	8928951-F	Damper vibration	Viscous heavy, 12.3 OD	
1	8922491-F	Damper vibration	Viscous heavy, 12.3 OD	
1	8922492-F	Damper vibration	Viscous heavy, 12.3 OD	
1	8928951-F	Damper vibration	Viscous heavy, 12.3 OD	
1	5147600-F	Damper vibration	13.5 OD	
1	5134917-F	Cone damper	0.531 length, front	
1	5102957-F	Cone damper	0.937 length, front	

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://trackmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23502705-F	Cone damper	2.12 length, rear
1	23507299-F	Cone damper	0.531 length, rear
1	23507296-F	Cone damper	3.09 length, rear, with front PTO only
1	23507297-F	Cone damper	2.22 length, rear
1	8928674-F	Cone damper	2.43 length, rear
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
CONNECTING ROD			
12	5109903	Connecting rod	Trunk, cast# 5117002
12	5135756	Connecting rod	Trunk, cast# 5135051
12	5135760	Connecting rod	Trunk turbo, cast# 5125239
12	5144848	Connecting rod	Crosshead, cast# 5144348
12	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
24	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
24	5117629-F	Nut connecting rod	7/16 - 20
12	5150140-F	Nozzle connecting rod	Spray
12	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
1	5128875-F	Gasket oil sump	Inlet pipe, scavenging pump, 3.00 bolt center
1	5123241-F	Gasket oil sump	Inlet pipe at pump
2	5167380-F	Gasket oil sump	Inlet pipe at screen cover
1	8547236-F	Oil cooler core	13 plate, single stack
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547551-F	Oil cooler core	8 plate, single stack
1	8547552-F	Oil cooler core	32 plate, double stack
1	8547554-B	Oil cooler core	12 plate, single stack, double base
1	8547555-B	Oil cooler core	12 plate, single stack, double base
1	8547561	Oil cooler core	[Discontinued, check for reman] 24 plate, 12-engine / 12-marine gear
1	8547581-F	Oil cooler core	13 plate, single stack
1	5149052	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149053	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149057	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149058	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149059	Oil cooler core	[Discontinued, check for reman] Tube bundle
2	5108071	Oil cooler seal	[Discontinued] For tube type cores, 2 per core required
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	23501587-F	Gasket oil cooler	Element to block; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
1	23501584-F	Gasket oil cooler	Core outer; double stack
1	8923512-F	Gasket oil cooler	Adaptor cover
1	23501596-F	Gasket oil cooler	Adaptor cover
2	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
1	5149946-F	Set oil cooler adaptor	
FUEL / INJECTOR			
12	5229350R-P	Injector reman	
12	5229355R-P	Injector reman	
12	5229360R-P	Injector reman	
12	5229365R-P	Injector reman	
12	5229370R-P	Injector reman	
12	5227015R-P	Injector reman	

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
12	5228785R-P	Injector reman	
12	5228760R-P	Injector reman N60	
12	5228765R-B	Injector	N65 (White tag)
12	5228900R-P	Injector reman	
12	5228770R-P	Injector reman	
12	5228777R-P	Injector reman	
12	5228780R-P	Injector reman	
12	5228790R-P	Injector reman	
12	5229352R-P	Injector reman	
12	5229785R-B	Injector	7E50, remanufactured
12	5229790R-P	Injector reman	
12	5229795R-P	Injector reman	
12	5229800R-P	Injector reman	
12	5229820R-P	Injector reman	7E75, remanufactured
12	5229690R-B	Injector	7A50, remanufactured
12	5229685R-P	Injector reman	
12	5229680R-B	Injector	7A60, remanufactured
12	5229665R-P	Injector reman	
12	5229670R-B	Injector	7A70, remanufactured
12	5229675R-P	Injector reman	
12	5229895R-P	Injector reman	
12	5229900R-P	Injector reman	
12	5229905R-P	Injector reman	
12	5229700R-P	Injector reman	
12	5229695R-P	Injector reman	
12	5226440R-P	Injector reman	
12	8925981-F	Injector tube kit	Copper, pre-reamed with seal
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	23512243-F	Fuel pump kit	Fuel pump seals
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
1	5150193-F	Gasket fuel pump mtg	
8	5117369-F	Fuel connector	Flared style
8	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
12	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
12	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
12	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
1	5110760-B	Primer hand pump	
1	8924869-F	Governor cover gsk	Mechanical governor
COOLING SYSTEM			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
4	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
4	5132155-F	Thermostat seal	
1	5123716-F	Gasket thermostat	LB housing to head
1	5123715-F	Gasket thermostat	RB housing to head
2	5175989-F	Gasket thermostat	Cover to housing

Detroit Diesel 712x-xxxx		12V71 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.250 Stroke 5.000
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
2	5170466-F	Gasket turbo	
2	5170468-F	Gasket turbo drain	TV turbo
4	5120224-F	Gasket manifold exhaust ends, metal clad	
2	5120223-F	Gasket manifold exhaust diameter, metal clad	
8	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
2	5108120-F	Blower repair kit	Natural
2	23514203-F	Blower repair kit	Turbo, smal bearing 2.047 OD
2	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149642-F	Set blower installation	Turbo and Non turbo
2	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
2	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
1	5117091-F	Chain coupling	
2	8923959-F	Seal bypass valve	
1	5148253-F	Blower drive shaft	48 teeth, .790 diameter x 5.00 length
8	8923792-F	Gasket air box	Small cover WBP block
2	8923791-F	Gasket air box	Large cover WBP block
2	5103515-F	Gasket blower inlet	With screen

Detroit 16V71		https://truckmanualshub.com/	
Diesel		16 Cylinder	
716x-xxxx		Bore 4.250 Stroke 5.000	
CYLINDER KIT			
CK2		Trunk, non-turbo, 1.05 port, 18.7:1, 4 valve head	
Option: 30, 31, 32, 36, 40, 42, 45, 50, 52, 78, 81, 88, 92, 112, 164, 171			
16	20011-F	Cylinder kit	Std #1, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502020 liner] [LCK-5306]
16	23505305-F	Cylinder kit	Std #2, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502021 liner] [LCK-5306]
16	23505306-F	Cylinder kit	Std #3, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23502022 liner] [LCK-5306]
16	5149261-F	Cylinder kit	.001 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 23504936 liner] [LCK-5306]
16	235053065-F	Cylinder kit	.005 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193732 liner] [LCK-5306]
16	5149263-F	Cylinder kit	.010 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193733 liner] [LCK-5306]
16	5149264-F	Cylinder kit	.020 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193734 liner] [LCK-5306]
16	2350530630-F	Cylinder kit	.030 OS, Non turbo; 1.50 pin, 1.05 port, trunk, 18.7:1, 4 valve head [5149234 piston, 23514970 rings, 5188406 pin, 5193735 liner] [LCK-5306]
CK3		Trunk, turbo, 1.05 port, 17:1, 4 valve head	
Option: 38, 51, 111			
16	20012-F	Cylinder kit	Std #1, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502020 liner] [LCK-5307]
16	20013-F	Cylinder kit	Std #2, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502021 liner] [LCK-5307]
16	23505307-F	Cylinder kit	Std #3, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23502022 liner] [LCK-5307]
16	235053071-F	Cylinder kit	.001 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 23504936 liner] [LCK-5307]
16	235053075-F	Cylinder kit	.005 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193732 liner] [LCK-5307]
16	2350530710-F	Cylinder kit	.010 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193733 liner] [LCK-5307]
16	2350530720-F	Cylinder kit	.020 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193734 liner] [LCK-5307]
16	2350530730-F	Cylinder kit	.030 OS, Turbo; 1.50 pin drilled, 1.05 port, trunk, 17:1 [5149236 piston, 23514971 rings, 5144495 pin, 5193735 liner] [LCK-5307]
CK4		Xhead, non-turbo, 1.05 port, 18.7:1	
Option: 129, 137, 167, 169, 170, 173, 219, 353			
16	20022-F	Cylinder kit	Std #1, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22949]
16	23522949-F	Cylinder kit	Std #2, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22949]
16	23522947-F	Cylinder kit	Std #3, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22949]
16	23522521-F	Cylinder kit	.001 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22949]
16	235229495-F	Cylinder kit	.005 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22949]
16	23522951-F	Cylinder kit	.010 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22949]
16	23522525-F	Cylinder kit	.020 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22949]
16	2352294930-F	Cylinder kit	.030 OS, NA, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22949]
CK5		Xhead, TA, .95 port, 18.7:1, Auto & City Coach	
Option: 285			

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://truckmanualshub.com/ 18 Cylinder Bore 4.250 Stroke 5.000
16	20021-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22507]
16	23522507-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22507]
16	23522509-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22507]
16	23522511-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22507]
16	235225075-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22507]
16	23522513-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22507]
16	23522515-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 18.7:1; Auto & City coach [23522535 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22507]
CK6		Xhead, TA, 1.05 port, 17:1, N75 & below	
Option: 138, 143, 174, 186, 201, 210, 211, 212, 213, 214, 286			
16	20020-F	Cylinder kit	Std #1, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502020 liner] [LCK-22485]
16	23522485-F	Cylinder kit	Std #2, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502021 liner] [LCK-22485]
16	23522953-F	Cylinder kit	Std #3, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23502022 liner] [LCK-22485]
16	23522489-F	Cylinder kit	.001 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 23504936 liner] [LCK-22485]
16	235224855-F	Cylinder kit	.005 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193732 liner] [LCK-22485]
16	23522491-F	Cylinder kit	.010 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193733 liner] [LCK-22485]
16	23522493-F	Cylinder kit	.020 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193734 liner] [LCK-22485]
16	2352248530-F	Cylinder kit	.030 OS, TA; 1.50 pin, 1.05 port, xhead, 17:1, N75 & below [23522475 dome kit, 23522070 skirt, 23522955 rings, 5193735 liner] [LCK-22485]
CK7		Xhead, TA, 0.95 port, 17:1, N75 & above, High output marine	
Option: 177, 287, 297, 307, 308			
16	20019-F	Cylinder kit	Std #1, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502023 liner] [LCK-22473]
16	23522473-F	Cylinder kit	Std #2, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502024 liner] [LCK-22473]
16	23522477-F	Cylinder kit	Std #3, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502025 liner] [LCK-22473]
16	23522479-F	Cylinder kit	.001 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23504935 liner] [LCK-22473]
16	235224735-F	Cylinder kit	.005 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107448 liner] [LCK-22473]
16	23522481-F	Cylinder kit	.010 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107449 liner] [LCK-22473]
16	23522483-F	Cylinder kit	.020 OS, TA, 1.50 pin, 0.95 port, xhead, 17:1; N75 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 5107450 liner] [LCK-22473]
CK9		Xhead, Turbo, 1.05 port, 18.7:1	
16	23522946-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22507]
16	23522948-F	Cylinder kit	Std #2, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 23502021 liner] [LCK-22507]
16	23522950-F	Cylinder kit	.010 OS, Turbo, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522535 dome kit, 23522070 skirt, 23522954 rings, 5193733 liner] [LCK-22507]
CK10		Xhead, Turbo, 1.05 port, 17:1	
16	23522952-F	Cylinder kit	Std #3, Turbo, 1.50 pin, 1.05 port, xhead, 17:1; N80 & above [23522475 dome kit, 23522070 skirt, 23522954 rings, 23502022 liner] [LCK-22473]

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://truckmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
CK8		TBC (Thermal Barrier Coating) Xhead; 60 HBP and above per cylinder engines	
16	23522508-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
16	23522510-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
16	23522512-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
16	23522514-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
16	23522516-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 0.95 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
16	23522518-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
16	23522520-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
16	23522522-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
16	23522524-F	Cylinder kit	TBC, 0.010 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
16	23522526-F	Cylinder kit	TBC, 0.020 OS, 1.50 pin, 1.05 port, xhead, 18.7:1 [23522536 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
16	23522474-F	Cylinder kit	TBC, Std #2, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502024 liner]
16	23522478-F	Cylinder kit	TBC, Std #3, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23502025 liner]
16	23522480-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 23504935 liner]
16	23522482-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107449 liner]
16	23522484-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 0.95 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522954 rings, 5107450 liner]
16	23522486-F	Cylinder kit	TBC, Std #2, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502021 liner]
16	23522488-F	Cylinder kit	TBC, Std #3, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23502022 liner]
16	23522490-F	Cylinder kit	TBC, #4, .001 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 23504936 liner]
16	23522492-F	Cylinder kit	TBC, .010 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193733 liner]
16	23522494-F	Cylinder kit	TBC, .020 OS, 1.50 pin, 1.05 port, xhead, 17:1 [23522476 dome kit, 2322070 skirt, 23522955 rings, 5193734 liner]
16	LCK-5306-F	Linerless cylinder kit	Cylinder kit 23505305 less liner [5149234 piston, 5188406 pin, 5188405 retainers, 23514970 rings]
16	LCK-5307-F	Linerless cylinder kit	Cylinder kit 23505307 less liner [5149236 piston, 5188406 pin, 5188405 retainers, 23514971 rings]
16	LCK-22473-F	Linerless cylinder kit	Cylinder kit 23522473 less liner [23522475 dome kit, 23522070 skirt, 23522954 rings]
16	LCK-22485-F	Linerless cylinder kit	Cylinder kit 23522485 less liner [23522475 dome kit, 23522070 skirt, 23522955 rings]
16	LCK-22507-F	Linerless cylinder kit	Cylinder kit 23522507 less liner [23522535 dome kit, 23522070 skirt, 23522954 rings]
16	LCK-22949-F	Linerless cylinder kit	Cylinder kit 23522949 less liner [23522535 dome kit, 23522070 skirt, 23522955 rings]
16	5149236-F	Piston kit	Turbo; 1.50 pin, trunk, 17:1 [5102778 piston, 5155839 bushings, 5188405 retainers]
16	5149234-F	Piston kit	Non turbo, 1.50 pin, trunk, 18.7:1; 4 valve head [5102780 piston, 5155839 bushings, 5188405 retainers]
16	23522497-F	Piston kit	Kit, 18.7:1, xhead [23522026 crown, 23522070 skirt, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://trucksmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
16	23522945	Piston kit	Kit, 17.0:1, xhead [23521992 crown, 23522070 skirt, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522498-F	Piston kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522496-F	Piston kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 23522070 skirt, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522535-F	Piston dome kit	Kit, 18.7:1, xhead [23522026 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522026-F	Piston crown	Xhead, 18.7:1
16	23522475-F	Piston dome kit	Kit, 17.0:1, xhead [23521992 crown, 5101120 pin, 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23521992-F	Piston crown	Xhead, 17.0:1
16	23522536-F	Piston dome kit	Kit, TBC, 18.7:1, xhead [23522175 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522175-F	Piston crown	Xhead, TBC, 18.7:1
16	23522476-F	Piston dome kit	Kit, TBC, 17.0:1, xhead [23522160 crown, 5101120 pin 23501687 slipper bearing, 5180250 retainer, 8922221 piston seal]
16	23522160-F	Piston crown	Xhead, TBC, 17.0:1
16	23522070-F	Piston skirt	for xhead pistons
16	23501687-F	Slipper bearing	for xhead pistons
16	8922221-F	Piston seal	for xhead pistons
32	5144846-F	Spacer piston bolt	for xhead pistons
32	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
16	5188406-F	Piston pin	1.50 diameter, trunk
16	5144495-F	Piston pin	1.50 diameter, drilled, trunk
16	5130881-F	Piston pin	Trunk, turbo non-drilled, military
16	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
16	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
32	5188405-F	Retainer piston pin	For trunk pistons
32	5180250-F	Retainer piston pin	for xhead pistons
16	23514970-F	Ring set	Trunk, 4 valve head, non turbo; (3) 5102648, (1) 23514965
16	23514971-F	Ring set	Trunk, turbo; (1) 5102648, (3) 5185325, (2) 23514968
16	23522955-F	Ring set	Xhead, std gap fire ring; (1) 8924084, (2) 8926351, (2) 23522534
16	23522954-F	Ring set	Xhead, wide gap fire ring; (1) 8924083, (2) 8926351, (2) 23522534
16	23502020-F	Cylinder liner	1.05 port, Std #1, 4 valve (OD: 4.6250 - 4.6255)
16	23502021-F	Cylinder liner	1.05 port, Std #2, 4 valve (OD: 4.6255 - 4.6260)
16	23502022-F	Cylinder liner	1.05 port, Std #3, 4 valve (OD: 4.6260 - 4.6270)
16	23504936-F	Cylinder liner	1.05 port, #4; .001 OS, 4 valve (OD: 4.6270 - 4.6280)
16	5193732-F	Cylinder liner	1.05 port, .005 OS, 4 valve (OD: 4.6300 - 4.6315)
16	5193733-F	Cylinder liner	1.05 port, .010 OS, 4 valve (OD: 4.6350 - 4.6365)
16	5193734-F	Cylinder liner	1.05 port, .020 OS, 4 valve (OD: 4.6450 - 4.6465)
16	5193735-F	Cylinder liner	1.05 port, .030 OS, 4 valve (OD: 4.6550 - 4.6565)
16	23502023-F	Cylinder liner	0.95 port, Std #1, TA and TTA
16	23502024-F	Cylinder liner	0.95 port, Std #2, TA and TTA
16	23502025-F	Cylinder liner	0.95 port, Std #3, TA and TTA
16	23504935-F	Cylinder liner	0.95 port, #4; .001 OS, TA and TTA
16	5107448-F	Cylinder liner	0.95 port, .005 OS, TA and TTA
16	5107449-F	Cylinder liner	0.95 port, .010 OS, TA and TTA

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://truckmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
16	5107450-F	Cylinder liner	0.95 port, .020 OS, TA and TTA
16	5107455-B	Cylinder liner	0.95 port, .030 OS, TA and TTA
16	5199569-F	Shim cylinder liner	.0020 thick, High block
16	5184484-F	Insert cylinder liner	Standard; .1795 - .1800, Std thru .005 OS liner
16	5148440-F	Insert cylinder liner	.0015 u/s; .1780 - .1785, Std thru .005 OS liner
16	5194073-F	Insert cylinder liner	.0040 u/s; .1760 - .1765, Std thru .005 OS liner
16	5194074	Insert cylinder liner	[Discontinued] .0080 u/s; .1715 - .1720, Std thru .005 OS liner
16	5148399-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, Std thru .005 OS liner
16	5193316-F	Insert cylinder liner	Standard; .1795 - .1800, .010 thru .030 OS liner
16	5199872	Insert cylinder liner	[Discontinued] .0015 u/s; .1780 - .1785, .010 thru .030 OS liner
16	5194163-F	Insert cylinder liner	.004 u/s; .1760 - .1765, .010 thru .030 OS liner
16	5194164-F	Insert cylinder liner	.008 u/s; .1715 - .1720, .010 thru .030 OS liner
16	5199871-F	Insert cylinder liner	.0015 thicker; .1810 - .1815, .010 thru .030 OS liner
BEARINGS			
16	5149572-F	Bearing rod pair	Std
	5149573-F	Bearing rod pair	.002
	5149575-F	Bearing rod pair	.010
	5149577-F	Bearing rod pair	.020
	5149579-F	Bearing rod pair	.030
16	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
10	5149556-F	Bearing main pair	Std; Non-turbo, non-slotted
	5149557-F	Bearing main pair	.002; Non-turbo, non-slotted
	5149559-F	Bearing main pair	.010; Non-turbo, non-slotted
	5149561-F	Bearing main pair	.020; Non-turbo, non-slotted
	5149563-F	Bearing main pair	.030; Non-turbo, non-slotted
10	5149565-F	Bearing main pair	Std; Turbo, slotted
	5149566-F	Bearing main pair	.002; Turbo, slotted
	5149567-F	Bearing main pair	.010; Turbo, slotted
	5149568-F	Bearing main pair	.020; Turbo, slotted
	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
	5196753-F	Thrust washer	.005 oversize
	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
12	5196026-F	Bearing cam	Intermediate, std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
8	5111424-F	Thrust washer cam	
32	5157274-F	Bushing con rod	Non-turbo, trunk
32	5155839-F	Bushing piston pin	Trunk, pressed into piston

Detroit Diesel 716x-xxxx	16V71 (Continued)	https://trackmanualshub.com/	16 Cylinder Bore 4.250 Stroke 5.000
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GASKET & SEALS

1	23512682-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
4	5196381-F	Set cylinder head	Does not include rocker cover gaskets
1	5196132	Set supplemental	[Discontinued] Marine engines
	G1	UPPER GASKETS	
16	5103659-F	Gasket cylinder head	Compression; High block
4	5143406-F	Gasket valve cover	Stamped steel cover, neoprene, flat
4	5104081-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
8	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	5144875-F	Gasket flywheel hsg	Housing to end plate
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
5	5104507-F	Gasket flywheel cvr	Small hole, star shaped
	G5	PAN GASKETS	
1	5126562-F	Gasket oil pan	Oil pan to block
2	5150115-F	Gasket oil pan	Stamped and cast 371; Lower front pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
2	23507204	Gasket oil pan	[Discontinued] Rear sump
	G3	CRANK SEALS	
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
s/n 16VA1 - 16VA2452			
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
s/n 16VA2453 -> [Can use as o/s seal with sleeve]			
1	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
1	5114802-F	Seal crankshaft rear	Single lip, Std, non directional (5.187 shaft, 6.507 OD)
	5194462-F	Seal crankshaft rear	Single lip, O/S, non directional (5.312 shaft, 6.507 OD, .625 width)
1	5106329-F	Seal crankshaft rear	Double lip, Std, non directional (5.187 shaft, 0.812 width, 6.507 OD)
	5198159-F	Seal crankshaft rear	Double lip, O/S, non directional (5.312 shaft, 6.513 OD, 1.033 width)
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23501610-F	Seal crankshaft rear	Teflon, std, LH rotation (5.187 shaft, 6.507 OD)
	23501545-F	Seal crankshaft rear	Teflon, O/S, LH rotation (5.312 shaft, 6.513 OD, single lip)
1	5198908-F	Sleeve crankshaft	Front, use with oversize seals, (4.683 shaft, 4.812 OD)
1	23507226-F	Sleeve crankshaft	Rear, use with oversize seals (5.187 shaft, 5.312 OD, 1.380 width)

CAMSHAFT

2	7451948-F	Bearing idler	Assembly
12	5103534-F	Lock bolt	Idler gear; one time use, do not reuse
48	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
48	8923814-F	Follower roller set	Includes: roller, bushing, pin
16	5106413-B	Guide cam follower	
32	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
32	103319-F	Lockwasher	1/4
48	5128640-F	Push rod	
48	5151601-F	Push rod nut	5/16 - 24, lock
48	5150303-F	Retainer push rod	Snap ring
48	5186858-F	Push rod spring	0.177 wire diameter, 2.625 free length, 11 coils, RH helix
48	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
48	5150302-F	Seat push rod spring	Upper
48	5123250-F	Seat push rod spring	Lower

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://truckmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
16	5150304	Rocker arm	[Discontinued] Valve, left; with clevis; 2 valve head
16	5150305	Rocker arm	[Discontinued] Valve, right; with clevis; 2 valve head
16	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
16	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
16	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
16	5122445-F	Bushing rocker arm	Valve, large
32	8924354-F	Bushing rocker arm	Valve and injector, small
16	8924355-F	Bushing rocker arm	Injector, large
48	5150312-F	Clevis rocker arm	Valve and injector
48	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
48	5150314-F	Pin clevis	Valve and injector
16	23500714-F	Rocker shaft	
32	5117565-F	Valve bridge	
VALVE TRAIN			
4	5102771B	Cylinder head	4 valve, bare; remanufactured
4	5102771C	Cylinder head	4 valve, complete; remanufactured
	DETHD2	NOTE	Following parts and quantities are for two valve head
32	5193666-F	Valve exhaust	With locks, Iconnel X, 30 degree high HP (5186381 valve, 23507238 locks)
64	23507238-F	Valve lock	
32	5150289-F	Valve spring	0.177 wire diameter, 2.40 free length, 8.75 coils RH helix
32	5150291-F	Valve spring cap	
32	5150292-F	Valve spring seat	
32	5120930-F	Valve guide	
32	23500480-F	Valve guide seal	Metal case, teflon lip
32	8927920-F	Valve insert	Standard, 30 degree
	DETHD1	NOTE	Following parts and quantities are for four valve head
64	23500501-F	Valve exhaust	Code U, "T" 30 degree; natural and turbo (8922516 valve, 5111337 locks)
64	5149386-F	Valve exhaust	High HP marine & industrial, "T1" 30 degree; hi-output
128	5111337-F	Valve lock	
64	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
64	5111339-F	Valve spring	0.135 wire diameter, 1.95 free length, 9.75 coils RH helix
64	5117563-F	Valve spring cap	
64	5117562-F	Valve spring seat	
64	5129919-F	Valve guide	
64	8921209-F	Valve guide seal	Metal with teflon lip
64	5101101-F	Valve insert	Standard, 30 degree
	5197167-F	Valve insert	.010 oversize, 30 degree
CRANKSHAFT			
1	8926929	Crankshaft	[Discontinued, check for reground] RH engine rotation, front
1	8926931	Crankshaft	[Discontinued, check for reground] LH engine rotation, front
1	8926932	Crankshaft	[Discontinued, check for reground] LH engine rotation, rear
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD
1	8928951-F	Damper vibration	Viscous heavy, 12.3 OD
1	8924435-F	Damper vibration	18.0 OD
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD
1	5134917-F	Cone damper	0.531 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
CONNECTING ROD			
16	5109903	Connecting rod	Trunk, cast# 5117002

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://www.trackmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
16	5135756	Connecting rod	Trunk, cast# 5135051
16	5135760	Connecting rod	Trunk turbo, cast# 5125239
16	5144848	Connecting rod	Crosshead, cast# 5144348
16	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
32	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
32	5117629-F	Nut connecting rod	7/16 - 20
16	5150140-F	Nozzle connecting rod	Spray
16	5154360	Orifice connecting rod	[Discontinued] Late
OIL / LUBE SYSTEM			
3	5128891-F	Gasket oil sump	Inlet pipe, pump to screen; 2.88 bolt center
1	5128875-F	Gasket oil sump	Intlet pipe, scavenging pump, 3.00 bolt center
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547552-F	Oil cooler core	32 plate, double stack
1	5149052	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149053	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149057	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149058	Oil cooler core	[Discontinued, check for reman] Tube bundle
1	5149059	Oil cooler core	[Discontinued, check for reman] Tube bundle
2	5108071	Oil cooler seal	[Discontinued] For tube type cores, 2 per core required
2	8923512-F	Gasket oil cooler	Adaptor cover
1	23501596-F	Gasket oil cooler	Adaptor cover
2	5175882-F	Gasket oil cooler	Oil cooler adaptor to block
2	5149946-F	Set oil cooler adaptor	
FUEL / INJECTOR			
16	5229350R-P	Injector reman	
16	5229355R-P	Injector reman	
16	5229360R-P	Injector reman	
16	5229365R-P	Injector reman	
16	5229370R-P	Injector reman	
16	5227015R-P	Injector reman	
16	5228785R-P	Injector reman	
16	5228760R-P	Injector reman N60	
16	5228765R-B	Injector	N65 (White tag)
16	5228900R-P	Injector reman	
16	5228770R-P	Injector reman	
16	5228777R-P	Injector reman	
16	5228780R-P	Injector reman	
16	5228790R-P	Injector reman	
16	5229352R-P	Injector reman	
16	5229785R-B	Injector	7E50, remanufactured
16	5229790R-P	Injector reman	
16	5229795R-P	Injector reman	
16	5229800R-P	Injector reman	
16	5229820R-P	Injector reman	7E75, remanufactured
16	5229690R-B	Injector	7A50, remanufactured
16	5229685R-P	Injector reman	
16	5229680R-B	Injector	7A60, remanufactured
16	5229665R-P	Injector reman	
16	5229670R-B	Injector	7A70, remanufactured
16	5229675R-P	Injector reman	
16	5229895R-P	Injector reman	
16	5229900R-P	Injector reman	

Detroit Diesel 716x-xxxx		16V71 (Continued)	https://truckmanualshub.com/ 16 Cylinder Bore 4.250 Stroke 5.000
16	5229905R-P	Injector reman	
16	5229700R-P	Injector reman	
16	5229695R-P	Injector reman	
16	5226440R-P	Injector reman	
16	8925981-F	Injector tube kit	Copper, pre-reamed with seal
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	23512243-F	Fuel pump kit	Fuel pump seals
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
1	5150193-F	Gasket fuel pump mtg	
12	5117369-F	Fuel connector	Flared style
12	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
16	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
16	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
16	23511856-F	Fuel jumper line	Injector to stand pipe, for standard straight body injectors 2 valve
1	5110760-B	Primer hand pump	
1	8924869-F	Governor cover gsk	Mechanical governor
COOLING SYSTEM			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
4	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
4	5132155-F	Thermostat seal	
2	5175989-F	Gasket thermostat	Cover to housing
TURBO / AIR			
2	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
2	5170466-F	Gasket turbo	
2	5170468-F	Gasket turbo drain	TV turbo
8	5120224-F	Gasket manifold exhaust	ends, metal clad
8	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
2	5108120-F	Blower repair kit	Natural
2	23514203-F	Blower repair kit	Turbo, smal bearing 2.047 OD
2	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149645-F	Set blower installation	Turbo and Non turbo
2	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
2	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
2	8923959-F	Seal bypass valve	
2	5117725-F	Blower drive shaft	48 teeth, .625 dia x 7.00 lng (Marine appl eff w/ 6VA-50622, 8VA-81197)
2	5124095-F	Blower drive shaft	48 teeth, .625 dia x 7.86 lng (Marine eff thru 6VA-50621, 8VA-81196)
2	8922634-F	Blower drive shaft	29 spline, 0.790 diameter x 6.67 length
8	8923792-F	Gasket air box	Small cover WBP block
4	8923791-F	Gasket air box	Large cover WBP block
2	5103602-F	Gasket blower inlet	With screen
2	5102062-F	Gasket blower inlet	Without screen

Detroit Diesel 408x-xxxx; 500 CID, OHV V8	8.2L, V8 Fuel Pincher	https://trackmanualshub.com/	8-Cylinder Bore 4.252 Stroke 4.409
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ENGINE KITS

82-NA-F	Inframe kit	
82-NA-OH-F	Overhaul kit	Naturally aspirated engine
82-T-F	Inframe kit	
82-T-OH-F	Overhaul kit	Turbocharged engine

CYLINDER KIT

8.2L Piston Note	Natural:	Following are for Naturally aspirated engines:
8 PK8921605-F	Piston kit	Std, 18.8:1 CR, with pin & retainers; Grade A
8 PK8922452-F	Piston kit	.010, 18.8:1 CR, with pin & retainers
8 PK8922453-F	Piston kit	.020, 18.8:1 CR, with pin & retainers
8 PK8921605 30-F	Piston kit	.030, 18.8:1 CR, with pin & retainers
8 8921605-F	Piston body	Std, 18.8:1 CR; Grade A; White dot OE identification
8 8922234-F	Piston body	Std, 18.8:1 CR; Grade B; Black dot OE identification
8 8922236-F	Piston body	Std, 18.8:1 CR; Grade C; Yellow dot OE identification
8 8928520-F	Piston body	Std, 18.8:1 CR; Grade D; No dot OE identification
8 8922451-F	Piston body	.005, 18.8:1 CR
8 8922452-F	Piston body	.010, 18.8:1 CR
8 8922453-F	Piston body	.020, 18.8:1 CR
8 8921605 30-F	Piston body	.030, 18.8:1 CR
8 8921721-F	Ring set	Std, 1-cyl set
1 8921721S-F	Ring set	Std, 8-cyl set
8 8923779-F	Ring set	.005, 1-cyl set
8 8923917-F	Ring set	.010, 1-cyl set
8 8923919-F	Ring set	.020, 1-cyl set
8 8921721 30-F	Ring set	.030, 1-cyl set
1 8921721S 30-F	Ring set	.030, 8-cyl set
8.2L Piston Note	Turbo:	Following are for Turbocharged engines:
8 PK8925818-F	Piston kit	Std, 17.4:1 CR, with pin & retainers, Grade A
8 PK8925816-F	Piston kit	.010, 17.4:1 CR, with pin & retainers
8 PK8925817-F	Piston kit	.020, 17.4:1 CR, with pin & retainers
8 PK8925818 30-F	Piston kit	.030, 17.4:1 CR, with pin & retainers
8 8925818-F	Piston body	Std, 17.4:1 CR; Grade A; White dot OE identification
8 8925819-F	Piston body	Std, 17.4:1 CR; Grade B; Black dot OE identification
8 8925820-F	Piston body	Std, 17.4:1 CR; Grade B; Yellow dot OE identification
8 8928521-F	Piston body	Std, 17.4:1 CR; Grade D; No dot OE identification
8 8925815-F	Piston body	.005, 17.4:1 CR; Grade E
8 8925816-F	Piston body	.010, 17.4:1 CR
8 8925817-F	Piston body	.020, 17.4:1 CR
8 892581830-F	Piston body	.030, 17.4:1 CR
8 8921722-F	Ring set	Std, 1-cyl set
1 8921722S-F	Ring set	Std, 8-cyl set
8 8923780-F	Ring set	.005, 1-cyl set
8 8923918-F	Ring set	.010, 1-cyl set
8 8923920-F	Ring set	.020, 1-cyl set
8 892172230-F	Ring set	.030, 1-cyl set
1 8921722S 30-F	Ring set	.030, 8-cyl set

Detroit 8.2L, V8 Fuel Pincher		https://truckmanualshub.com/	
Diesel (Continued)		8 Cylinder	
408x-xxxx; 500 CID, OHV V8		Bore 4.252 Stroke 4.409	
8.2L Piston Note	Both engines	Following are for Natural and Turbocharged engines:	
8 8925717-F	Piston pin		
16 8922977-F	Retainer piston pin		
8 8924716-F	Cylinder liner	Repair sleeve	
BEARINGS			
1 5099M-F	Bearing main set	Std	
1 5099M .25MM-F	Bearing main set	0.25mm	
1 5099M .50MM-F	Bearing main set	0.50mm	
4 8921712-F	Bearing main pair	Std	
4 8924704-F	Bearing main pair	0.25mm	
1 8922948-F	Bearing main thrust	Std, flanged	
1 8924705-F	Bearing main thrust	0.25mm, flanged	
8 8921714-F	Bearing rod pair	Std	
8 8924703-F	Bearing rod pair	0.25mm	
8 8921714 20-F	Bearing rod pair	0.50mm	
8 8921714 30-F	Bearing rod pair	0.75mm	
8 8920078-F	Bushing conn rod		
1 8922110-F	Bearing cam set		
GASKET & SEALS			
1 8924126-F	Set overhaul	No valve cover gaskets, Standard head gaskets, No crankshaft seals	
1 8924126-WS-F	Set overhaul	With Bi-directional crankshaft seals	
1 8924126C-F	Set overhaul	With 11 hole valve cover gaskets (without breather); With front seal	
1 8924126CB-F	Set overhaul	With 9 hole valve cover gaskets (with breather); With front seal	
1 PGE4126-F	Set overhaul	Without head gaskets	
1 8924126 10-F	Set overhaul	With .010" oversize head gaskets; No valve cover gaskets, No crankshaft seals	
1 8924126-C 10-F	Set overhaul	With .010" oversize head gaskets; 11 hole valve cover gaskets (without breather); With front seal	
1 PGE4126C 10-F	Set overhaul	With .010" oversize head gaskets; 11 hole valve cover gaskets (without breather); With crank seals	
1 PGE4127-IF-F	Set inframe	Head gaskets will accomodate 15mm head bolts; Includes four-piece oil pan gasket, premium valve stem seals	
1 PGE4127-IF 10-F	Set inframe	With .010" oversize head gaskets, Head gaskets will accomodate 15mm head bolts; Includes four-piece oil pan gasket, premium vss	
2 8924127-F	Set cylinder head	With std head gasket, No valve cover gasket, for single head	
1 8924127MV-F	Set cylinder head	With 11 hole valve cover gaskets (without breather), for both heads	
2 8924127V-F	Set cylinder head	With 11 hole valve cover gasket (without breather), for single head	
1 8924127MVB-F	Set cylinder head	With 9 hole valve cover gaskets (with breather), for both heads	
2 8924127VB-F	Set cylinder head	With 9 hole valve cover gasket (with breather), for single head	
2 8924127 10-F	Set cylinder head	With .010" oversize head gasket; No valve cover gasket, for single head	
1 CS8708-FEL	Set conversion	Block and pan gaskets, crankshaft seals	
2 8923848-F	Gasket cylinder head		
2 8920271-F	Gasket valve cover	11 mounting holes, early style	
2 8926675-F	Gasket valve cover	9 mounting holes, late style	

Detroit Diesel		8.2L, V8 Fuel Pincher	https://truckmanualshub.com/
408x-xxxx; 500 CID, OHV V8		(Continued)	8 Cylinder Bore 4.252 Stroke 4.409
1	TCS45576-FEL	Set front cover	Includes upper and lower gaskets, front oil pan to block, front seal
1	8920273-F	Gasket front cover	Crankshaft front cover
1	8923090-F	Gasket front cover	Crankshaft front cover, Cover to oil pan
1	8920091-F	Gasket flywheel hsg	
1	5149728-F	Gasket oil pan	Set
1	OS32035-CL	Gasket oil pan	One piece, silicone gasket, 13 bolt [8922786]
1	8922349-F	Washer	Oil drain plug
1	5126473-F	Gasket oil pickup	
1	8920200-F	Seal crankshaft front	Single lip
1	99250-FM	Sleeve crankshaft	Front; Redi-sleeve
1	8926761-F	Seal crankshaft rear	Single lip,Std
1	8923654-F	Seal crankshaft rear	Oversize, Single lip, right-hand; Use with 8923655 sleeve
	8923655-F	Sleeve crankshaft front	
CAMSHAFT			
1	8923733	Camshaft	Natural
1	8923734-F	Camshaft	Turbo
8	8920478-F	Rocker shaft	Includes plug
8	5151272-F	Expansion plug	Rocker shaft
8	8923814-F	Follower roller set	Includes: roller, bushing, pin
8	8923813-F	Roller cam follower	Valve; includes pin and roller
24	8921259-F	Screw rocker arm	
8	8921253-F	Spring push rod	
VALVE TRAIN			
8	23502068-F	Valve intake kit	8920119 valve with keepers
8	8920119-F	Valve intake	
8	23502067-F	Valve exhaust kit	8921347 valve with keepers
8	8921347-F	Valve exhaust	
16	8927857-F	Valve spring	
16	8922369-F	Rotator	
16	23500480-F	Valve guide seal	Metal case, teflon lip
16	5199914-F	Valve guide cap	Seal installer
16	VG-5079T-FM	Valve guide	.3440" ID, 2.875" OAL
32	23507238-F	Valve lock	
8	SB1937-12	Valve insert	Intake; 1-15/16 OD, 1.578T ID, 1.720 ID top taper, 0.2030 depth, 30 degree
8	SB1750-12	Valve insert	Exhaust; 1-3/4 OD, 1.438T ID, 1.610 ID top taper, 0.2030 depth, 45 degree
10	23500463-F	Head Bolt	M15 x 2.0 x 128mm; 12 point head
10	23500462-F	Head Bolt	M15 x 2.0 x 158mm; 12 point head
20	8921876-F	Washer	
To sn 8G138422; except marine applications			
8	5149724-F	Injector tube kit	with 8920390 seal
8	8925981A-F	Injector tube kit	with seal, thick nose
8	8920390-F	Seal injector tube	
CRANKSHAFT			
10	8922200-F	Bolt main cap	Main bearing cap; M12 x 1.75 x 70mm
CONNECTING ROD			
16	8920087-F	Bolt conn rod	7/16 -20 x 2.58"

Detroit Diesel 408x-xxxx; 500 CID, OHV V8	8.2L, V8 Fuel Pincher (Continued)	https://trackmanualshub.com/	8" Cylinder Bore 4.252 Stroke 4.409
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OIL / LUBE SYSTEM

1	8547194-F	Oil Cooler	4 plate
1	8547577-F	Oil Cooler	6 plate
1	8920849-F	Oring oil cooler	Adapter to block; .487" ID x .6875" OD
1	8920180-F	Seal ring oil cooler	Adapter to block; 18.82mm ID x 3.175mm thick, square seal
1	8927784-F	Bushing oil pump	Finished
1	8922093-F	Bushing oil pump	Unfinished
3	11504822-F	Bolt filter adapter	Oil filter adapter; M8 x 1.25 x 30mm
1	5575086-F	Gasket regulator	Oil pressure regulator plug
1	8926365-F	Oil pressure regulator	Oil pressure regulator valve
To sn 8G138422; Except Marine applications			
1	5177773-F	Washer	Oil filter bypass plug
1	8920462-F	Dipstick	478.0MM to top of cap
2	5108474-F	Oil Filler Cap	
1	8921294-F	Breather seal ring	

FUEL / INJECTOR

8	5229850R-P	Injector reman	Remanufactured, 4A53
8	5229915R-P	Injector reman	Remanufactured, 4C65
8	5229930-F	Injector repair kit	
8	5229727-F	Injector tip kit	4A53
8	5229846-F	Injector tip kit	4C65
8	5229840-F	Injector plunger and bus	4A53 & 4B55; Assembly
4	8920350-F	Bracket	Control tube
8	5229726-F	Injector valve cage	Spring cage
8	5228766-F	Injector spring seat	Valve spring seat
8	5228596-F	Injector valve spring	
8	5228694-F	Injector check valve	
8	5229720-F	Nut	Fuel injector valve
8	5228769-F	Inector valve kit	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5199561-F	Fuel pump	RH standard capacity
1	5199734-F	Fuel pump	RH, high capacity
1	5150193-F	Gasket fuel pump mtg	
1	5154216-F	Fuel pump drive	Coupling
1	5178700-F	Fuel pump shaft	Drive
1	5181747-F	Fuel pump shaft	Driven, shaft and gear
1	5174975-F	Gear fuel pump	
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5146337-F	Body fuel pump	With 3 drains
1	5174973-F	Valve fuel pump	
1	5161003-F	Gasket fuel pump	Fuel pump valve plug
1	5184530-F	Spring relief valve	
1	5174971-F	Valve fuel pump	Fuel pump valve
1	23512243-F	Fuel pump kit	Fuel pump seals
1	103709-F	Dowel pin	Fuel pump valve spring

Detroit Diesel		8.2L, V8 Fuel Pincher	https://trackmanualshub.com/
408x-xxxx; 500 CID, OHV V8		(Continued)	8" Cylinder Bore 4.252 Stroke 4.409
2	141195-F	Dowel pin	Fuel pump body
1	5136240-F	Plastic cap	Fuel pump drain; .42"
2	5136241-F	Plastic cap	Fuel pump drain; .58"
2	5121182-F	Pipe plug	Fuel filter cover; 1/4"; Hex head
2	8924380-F	Pipe plug	Fuel pump drain; 1/8"
1	5134560-F	Cover fuel pump	
1	147481-F	Ball bearing	Drive Gear
1	5198558-F	Bushing	Fuel pump cover; 3/8" x 1/4"
1	9411502-F	Retaining ring	Mechanical governor weight {2.7470}
1	5152148-F	Fuel connector washer	25/64ID x 9/16 OD x 1/16 thick, copper
COOLING SYSTEM			
1	7120X-BP	Water pump	Reman, Late style, with heater bypass [8928672; Cast: 8926904]
1	WP1399-PR	Water pump	Early style, without heater bypass [8922302, Cast 8920383]
1	8922132-F	Gasket water pump	Pump to front cover
2	3046745-F	Thermostat	
1	8924813-F	Gasket thermostat	For dual thermostat applications
2	8920161-F	Gasket water outlet	Outlet elbow gasket, Right and left bank
1	8920083-F	Gasket water outlet	Outlet elbow gasket, Right bank
1	8928670-F	Water pump kit	Fresh water pump; Includes: bearing, seal, impeller and hub
1	8928671-F	Water pump kit	Fresh water pump; Includes: bearing, seal, impeller, cover and seal ring
1	8920144-F	Shaft water pump	Fresh water pump; Shaft and bearing assembly
1	8927408-F	Shaft seal water pump	Fresh water pump
1	8927727-F	Impeller water pump	For: Fresh water pump
1	5193602-F	Impeller water pump	For: Raw water pump
1	8922299-F	Hub water pump	Driven hub
1	8923151-F	Cover water pump	Fresh water pump
1	8923152-F	Cover seal	Fresh water pump cover
1	5115214-F	Pipe plug	Water pump housing; 1/2"-14
2	5142549-F	Pipe plug	Water pump housing; 3/4"-14
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	5162888-F	Hose turbo	Air inlet connection
2	9139809-F	Hose clamp turbo	Air outlet hose
1	5198936-F	Ring turbo	Intermediate housing
2	5149540-F	Bushing turbo	Rotor shaft
1	8920203-F	Oring air inlet	Air inlet elbow
1	8923184-F	Seal mounting	Mounting hole cover
2	8921817-F	Gasket manifold exhaust	
1	8920220-F	Gasket block valley cvr	Front
1	8920246-F	Gasket block valley cvr	Rear
2	8920219-F	Seal valley pan	Extruded seal, Side valley pan
2	8923847-F	Pipe plug	Exhaust outlet adapter; 1/4" x 18 NPTF; Square head
2	8920247-F	Gasket air intake hsg	
1	8920732-F	Screen air cleaner	Mounting adapter
1	8927214-F	Screen air cleaner	Mounting adapter; Closed breather system
Natural			

Detroit Diesel		8.2L, V8 Fuel Pincher	https://trackmanualshub.com/
408x-xxxx; 500 CID, OHV V8		(Continued)	8" Cylinder Bore 4.252 Stroke 4.409
2	8921883-F	Seal and plate assembly	Mounting adapter, gasket assy
Natural			
2	5127247-F	Gasket air cleaner	Air cleaner mounting adapter
Turbo			
BLOCK			
1	5130995-F	Gasket starter	
2	23511574-F	Pipe Plug	1/2 pipe thread with 1 inch square head
MISC			
	DET82GOV	Governor	Governor Parts:
1	8920308-F	Gasket governor	Gover to cylinder block
1	5180539-F	Gasket governor	Variable speed cover; Copper material
1	8920399-F	Gasket governor hole	Control tube to cylinder head
1	8920290-F	Gasket governor cover	Limiting speed
1	8921033-F	Gasket solenoid mtg	Air shutoff mounting
1	8927033-F	Gasket solenoid assy	Air shutoff between plunger & solenoid
1	8922593-F	Gasket spring cover	High speed
4	5122786-F	Dowel pin	Governor weight
1	9437108-F	Bearing governor	Governor weight riser thrust, ball bearing; 0.354" width
1	23506244-F	Bearing governor	Governor weight shaft end, ball bearing
1	9431894-F	Bearing governor	Upper operating shaft, ball bearing
1	5117193-F	Riser governor	1.062" length
1	5122165-F	Spring governor	Low speed; With one blue stripe
1	5183704-F	Spring governor	Low speed; With two yellow stripes
1	5103975-F	Cap spring	Low speed spring cap
1	5102270-F	Screw	Low speed spring adjusting; 0.250"-28 x 1.00"
1	5101432-F	Dowel pin	Low speed spring adjusting
1	5176557-F	Oring	Variable speed spring lever shaft packing; 0.500" x 0.500" diameter
2	148402-F	Bearing	Variable speed spring lever shaft
1	5139468-F	Needle Bearing	Variable speed spring lever shaft
4	5136590-F	Valve spring shim	Variable speed; .010"
2	5136591-F	Valve spring shim	Variable speed; .078"
1	457008-F	Pin	Variable speed shaft pin; 3/16" x 1 1/2"
2	5178581-F	Retainer governor	Variable speed throttle shaft; Lower
2	5144178-F	Retainer governor	Variable speed throttle shaft; Upper
2	5151487-F	Washer	Variable speed throttle shaft; 3/8" x 11/16" x 0.33
1	5101691-F	Seal ring	Variable speed throttle shaft; 0.362" x .113"
1	142583-F	Retainer	Operating shaft lever pin
1	5174286-F	Nut	Governor buffer screw; 3/8" - 24

Detroit 6V92		https://truckmanualshub.com/	
Diesel		6 Cylinder	
806x-xxxx		Bore 4.840	
		Stroke 5.000	
ENGINE KITS			
1	6V92IF24346	InFrame kit	Natural, xhead, 1.05 or 0.95 port
1	6V92OF24346	Overhaul kit	Natural, xhead, 1.05 or 0.95 port
1	6V92IF24340	InFrame kit	Turbo, xhead, 1.05 or 0.95 port
1	6V92OF24340	Overhaul kit	Turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK20		Xhead, non-turbo, 1.05 port, 18:1	
Option: 146, 147, 148, 222, 226, 259, 264, 304, 315, 317			
6	23524345-F	Cylinder kit	Std, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24346]
6	23524345 1-F	Cylinder kit	.001, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24346]
6	23524345 10-F	Cylinder kit	.010, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24346]
6	23524345 20-F	Cylinder kit	.020, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24346]
CK21		Xhead, non-turbo, 0.95 port, 18:1; Industrial and Marine	
Option: 215, 224, 227, 316			
6	23524346-F	Cylinder kit	Std, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24346]
6	23524346 1-F	Cylinder kit	.001, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24346]
6	23524346 10-F	Cylinder kit	.010, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24346]
6	23524346 20-F	Cylinder kit	.020, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24346]
CK22		Xhead, Turbo/Aftercooled, 0.85 port, 18:1 (8V92 Cal)	
Option: 310, 324, 375, 419, 420			
6	23524344-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 ring, 5101120 pin, 23508383 liner] [LCK-24346]
CK24		Xhead, Turbo/Aftercooled, 0.75 port, 18:1 (6V92 Fed Coach)	
Option: 295, 378			
6	23523100-F	Cylinder kit	Std, Turbo/Aftercooled, 0.75 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 8927078 liner] [LCK-24346]
CK23		Xhead, Turbo, 1.05 port, 17:1	
Option: 149, 150, 202, 221, 228, 250, 255, 262, 275, 277, 278, 279, 299, 409			
6	23524339-F	Cylinder kit	Std, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24340]
6	23524339 1-F	Cylinder kit	.001, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24340]
6	23524339 10-F	Cylinder kit	.010, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24340]
6	23524339 20-F	Cylinder kit	.020, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24340]
CK31		Xhead, Turbo, 0.95 port, 17:1	
Option: 153, 190, 223, 225, 247, 248, 251, 252, 259, 260, 263, 272, 273, 274, 276, 320, 323, 331, 380			
6	23524341-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24340]
6	23524341 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24340]
6	23524341 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24340]
6	23524341 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24340]
CK25		Xhead, Turbo, 0.95 port, 17:1 (6V92 coach)	
Option: 410			

Detroit Diesel 806x-xxxx		6V92 (Continued)	https://trackmanualshub.com/ 6-Cylinder Bore 4.840 Stroke 5.000
6	23524342-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 liner] [LCK-24342]
6	23524342 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 1 liner] [LCK-24342]
6	23524342 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 10 liner] [LCK-24342]
6	23524342 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 20 liner] [LCK-24342]
CK26		Xhead, Turbo Hi Ouput, 0.95 port, 17:1, brushed	
Option: 395, 396, 407, 458			
6	23524340-F	Cylinder kit	Std, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24340]
6	23524340 1-F	Cylinder kit	.001, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24340]
6	23524340 10-F	Cylinder kit	.010, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24340]
6	23524340 20-F	Cylinder kit	.020, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24340]
CK27		Xhead, Turbo, 0.85 port, 17:1	
6	23523101-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23508383 liner] [LCK-24340]
CK28		Xhead, Turbo, 0.85 port, 17:1	
6	23524494-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
CK29		Xhead, Turbo/Aftercooled, 0.85 port, 17:1, brushed	
Option: 430, 431, 432, 452			
6	23524343-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
CK30		Xhead, Turbo, 0.95 port, 15:1, brushed	
Option: 411			
6	23524337-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24337]
6	23524337 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24337]
6	23524337 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24337]
6	23524337 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24337]
6	LCK-24346-F	Linerless cylinder kit	Cylinder kit less liner [23500883 dome kit, 23524349 rings] Cyl kits: 23524345, 23524346, 23524344, 23523100
6	LCK-24340-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524349 rings] Cyl kits: 23524339, 23524341, 23524340, 23523101
6	LCK-24342-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524542 rings] Cyl kits: 23524342, 23524494, 23524343
6	LCK-24337-F	Linerless cylinder kit	Cylinder kit less liner [23505052 dome kit, 23524349 rings] Cyl kit: 23524337
6	5149963-F	Piston dome kit	Kit, 17:1, xhead [5144872, crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
6	5144872-F	Piston crown	Xhead, 17:1
6	23500883-F	Piston dome kit	Kit, 18:1, xhead [8926480 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
6	8926480-F	Piston crown	Xhead 18:1
6	23505052-F	Piston dome kit	Kit, 15:1, xhead [23504353 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
6	23504353-F	Piston crown	Xhead, 15:1
6	23508986-F	Piston skirt	
6	23501687-F	Slipper bearing	for xhead pistons
6	8923729-F	Piston seal	
12	5144846-F	Spacer piston bolt	for xhead pistons

Detroit Diesel 806x-xxxx		6V92 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.840 Stroke 5.000
12	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
6	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
6	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
12	5180250-F	Retainer piston pin	for xhead pistons
6	23524349-F	Ring set	Xhead, wide gap fire ring; (1) 23524192, (2) 8923113, (1) 23524350
6	23524542-F	Ring set	Xhead, std gap fire ring; (1) 23524191, (2) 8923113, (1) 2354350
6	23523102	Ring set	[Discontinued] Xhead, std gap fire ring; (1) 23524191, (2) 8924806, (1) 23524350
6	8927078-F	Cylinder liner	0.75 port, Std, 20 degree port
6	23508383-F	Cylinder liner	0.85 port, Std, 20 degree port
6	5107176-F	Cylinder liner	0.95 port, Std
6	5107176 1-F	Cylinder liner	0.95 port, .001
6	5107176 10-F	Cylinder liner	0.95 port, .010
6	5107176 20-F	Cylinder liner	0.95 port, .020
6	23507231-F	Cylinder liner	0.95 port, Std, brushed
6	23507231 1-F	Cylinder liner	0.95 port, .001, brushed
6	23507231 10-F	Cylinder liner	0.95 port, .010, brushed
6	23507231 20-F	Cylinder liner	0.95 port, .020, brushed
6	5148505-F	Cylinder liner	1.05 port, Std, 30 degree port
6	5148505 1-F	Cylinder liner	1.05 port, .001, 30 degree port
6	5148505 10-F	Cylinder liner	1.05 port, .010, 30 degree port
6	5148505 20-F	Cylinder liner	1.05 port, .020, 30 degree port
12	8927189-F	Cylinder liner oring	
6	5148612-F	Cylinder liner insert	Std; .1188 - .1193 thick
6	5148501-F	Cylinder liner insert	Std; .1200 - .1205 thick
6	5148611-F	Cylinder liner insert	Std; .1212 - .1217 thick
6	5101723-F	Cylinder liner insert	.015 ID; .1338 - .1343 thick
6	5101533-F	Cylinder liner insert	.015 ID; .1350 - .1355 thick
6	5101727-F	Cylinder liner insert	.015 ID; .1362 - .1367 thick
BEARINGS			
6	5149572-F	Bearing rod pair	Std
6	5149573-F	Bearing rod pair	.002
6	5149575-F	Bearing rod pair	.010
6	5149577-F	Bearing rod pair	.020
6	5149579-F	Bearing rod pair	.030
6	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
6	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
6	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
6	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
6	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
4	5149565-F	Bearing main pair	Std; Turbo, slotted
4	5149566-F	Bearing main pair	.002; Turbo, slotted

Detroit Diesel 806x-xxxx		6V92 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.840 Stroke 5.000
4	5149567-F	Bearing main pair	.010; Turbo, slotted
4	5149568-F	Bearing main pair	.020; Turbo, slotted
4	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
4	5196753-F	Thrust washer	.005 oversize
4	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
4	5196026-F	Bearing cam	Intermediate, std
2	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
2	5117984-F	Bearing cam	Front
4	5111424-F	Thrust washer cam	
GASKET & SEALS			
1	23512684-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
1	23512683-F	Set overhaul	Tilt coach engines; Does not include crankshaft seals or rocker cover gaskets
2	5199673-F	Set cylinder head	Does not include rocker cover gaskets
G1	UPPER GASKETS		
6	5100404-F	Gasket cylinder head	Compression
2	5104018-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
4	5104515-F	Isolator valve cover	For cast aluminum cover
G4	LOWER GASKETS		
1	23506157-F	Gasket block endplate	Block rear to plate
1	5144875-F	Gasket flywheel hsg	Housing to end plate
1	5147246-F	Gasket flywheel hsg	Housing to end plate
Type: 504, 506, 528, 533, 540, 546, 581, 582, 594, 602, 646, 657, 658, 659, 660, 661, 662, 663, 670, 674, 686, 687, 727			
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inpection cover
3	5104507-F	Gasket flywheel cvr	Small hole, star shaped
1	5123638-F	Gasket front cover	Upper
1	5121714-F	Gasket front cover	Lower
G5	PAN GASKETS		
1	23503588-F	Gasket oil pan	Oil pan to block, stamped pan
1	8920557-F	Gasket oil pan	Lower oil pan
1	5150115-F	Gasket oil pan	Stamped and cast 371; Lower front pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5150116-F	Gasket oil pan	Stamped and cast 471; Lower rear pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
G3	CRANK SEALS		
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	5143108-F	Seal crankshaft front	Submersible
1	8922045-F	Seal crankshaft front	Single lip, RH rotation
1	8922046-F	Seal crankshaft front	Single lip, LH rotation
1	5114802-F	Seal crankshaft rear	Single lip, Std, non directional (5.187 shaft, 6.507 OD)
1	8926761-F	Seal crankshaft rear	Single lip, Std
1	5194462-F	Seal crankshaft rear	Single lip, O/S, non directional (5.312 shaft, 6.507 OD, .625 width)
1	5106329-F	Seal crankshaft rear	Double lip, Std, non directional (5.187 shaft, 0.812 width, 6.507 OD)
1	5198159-F	Seal crankshaft rear	Double lip, O/S, non directional (5.312 shaft, 6.513 OD, 1.033 width)
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23501610-F	Seal crankshaft rear	Teflon, std, LH rotation (5.187 shaft, 6.507 OD)
1	23501545-F	Seal crankshaft rear	Teflon, O/S, LH rotation (5.312 shaft, 6.513 OD, single lip)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
1	23507226-F	Sleeve crankshaft	Rear, use with oversize seals (5.187 shaft, 5.312 OD, 1.380 width)

Detroit Diesel 806x-xxxx		6V92 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.840 Stroke 5.000
CAMSHAFT			
1	5107321-B	Camshaft	Right bank, RH rotation, stamped 5107245
1	5107322-B	Camshaft	Left bank, RH rotation, stamped 5107248
1	5108111-F	Camshaft	Left bank, RH rotation, stamped 5108113
1	5108112	Camshaft	[Discontinued, check for reman] Right bank, RH rotation, stamped 5108114
1	23503666	Camshaft	[Discontinued] Right bank, RH rotation, stamped 23503552
1	23502845	Camshaft	[Discontinued] Right bank, RH rotation, stamped 23502782
1	5199383	Gear idler	[Discontinued] Assembly, LH helix
1	5199326-B	Gear idler	Assembly, RH helix
1	7451948-F	Bearing idler	Assembly
18	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
18	8923814-F	Follower roller set	Includes: roller, bushing, pin
6	5106413-B	Guide cam follower	
12	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
12	103319-F	Lockwasher	1/4
18	5128640-F	Push rod	
18	5151601-F	Push rod nut	5/16 - 24, lock
18	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
18	5150303-F	Retainer push rod	Snap ring
18	5108919-F	Seat push rod spring	Upper
18	5123250-F	Seat push rod spring	Lower
6	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
6	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
6	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
6	23502616-F	Rocker arm	Injector, city coach applications; blue paint
12	5122445-F	Bushing rocker arm	Valve, large
12	8924354-F	Bushing rocker arm	Valve and injector, small
6	8924355-F	Bushing rocker arm	Injector, large
18	5150312-F	Clevis rocker arm	Valve and injector
18	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
6	23502615-F	Bushing clevis	Injector, coach, .6295 OD
18	5150314-F	Pin clevis	Valve and injector
6	23500714-F	Rocker shaft	
6	23500671	Rocker shaft	[Discontinued] 6V and 8V DDEC engines
12	5148491-F	Valve bridge	
12	5117564-F	Valve bridge guide	Press fit
VALVE TRAIN			
2	5149877C	Cylinder head	Assembly, 4 valve, complete remanufactured
24	5149771-F	Valve exhaust	With locks
48	5111337-F	Valve lock	
24	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
24	8927794-F	Valve spring	.240 length, purple stripe; DDEC Coach
24	5117563-F	Valve spring cap	
24	5117562-F	Valve spring seat	
24	5129919-F	Valve guide	
24	8921209-F	Valve guide seal	Metal with teflon lip
24	5148490-F	Valve seat	Standard
24	5101315-F	Valve seat	.010 oversize
CRANKSHAFT			
1	8926921-F	Crankshaft	RH engine rotation
1	8926922-F	Crankshaft	LH engine rotation

Detroit Diesel 806x-xxxx	6V92 (Continued)	https://trackmanualshub.com/	6-Cylinder Bore 4.840 Stroke 5.000
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CONNECTING ROD

6	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
6	5104501	Connecting rod	Crosshead style, cast# 5104502
12	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
12	5117629-F	Nut connecting rod	7/16 - 20

OIL / LUBE SYSTEM

1	5117242-F	Gasket oil sump	Inlet pipe at pump; 3.00 bolt center
1	5163780	Gasket oil sump	[Discontinued] Inlet pipe; 2-21/32 bolt center
1	5126160-F	Gasket oil sump	Inlet pipe; 1.80 bolt center
1	5126161	Gasket oil sump	[Discontinued] Inlet pipe; 2.50 bolt center
1	8547195-F	Oil cooler core	18 plate, single stack
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547547-F	Oil cooler core	16 plate, single stack
1	8547551-F	Oil cooler core	8 plate, single stack
1	8547552-F	Oil cooler core	32 plate, double stack
1	8547553-F	Oil cooler core	16 plate, double stack
1	8547555-B	Oil cooler core	12 plate, single stack, double base
1	8547581-F	Oil cooler core	13 plate, single stack
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	8923222-F	Gasket oil cooler	Plate to adaptor; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
1	23501587-F	Gasket oil cooler	Element to block; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
2	5117535-F	Gasket oil cooler	Adaptor to block
1	8923512-F	Gasket oil cooler	Adaptor cover
1	23501594-F	Gasket oil cooler	Adaptor cover
1	5149946-F	Set oil cooler adaptor	

FUEL / INJECTOR

6	5229410R-P	Injector reman	
6	5229170R-P	Injector reman	
6	5229380R-P	Injector reman	
6	5229180R-P	Injector reman	
6	5229400R-P	Injector reman	
6	5229405R-P	Injector reman	
6	5229395R-P	Injector reman	
6	5229855R-B	Injector	7E70, remanufactured
6	5229820R-P	Injector reman	7E75, remanufactured
6	5229805R-P	Injector reman	
6	5229815R-P	Injector reman	
6	5229810R-P	Injector reman	
6	5229895R-P	Injector reman	
6	5229900R-P	Injector reman	
6	5229905R-P	Injector reman	
6	5229620R-P	Injector reman	
6	5229625R-P	Injector reman	
6	5229630R-P	Injector reman	
6	5229870R-B	Injector	9C70, remanufactured
6	5229875R-B	Injector	9C75, remanufactured
6	5229880R-P	Injector reman	
6	5229885R-B	Injector	9C85, remanufactured

Detroit Diesel 806x-xxxx		6V92 (Continued)	https://trackmanualshub.com/ 6 Cylinder Bore 4.840 Stroke 5.000
6	5229890R-P	Injector reman	
6	5229970R-P	Injector reman	
6	5229975R-P	Injector reman	
6	5226635R-P	Injector reman	
6	8925981-F	Injector tube kit	Copper, pre-reamed with seal
6	5104701-F	Oring injector tube	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
2	23512243-F	Fuel pump kit	Fuel pump seals
4	8926992-F	Fuel connector	Flared type
4	5152148-F	Fuel connector washer	25/64ID x 9/16 OD x 1/16 thick, copper
6	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
6	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	WP1395A-PR	Water pump	Remanufactured; Walking, 3 weep hole style, cast 5101261, 8921100, 8922325 [23506602, 8922336, 8921105]
1	WP1395AR-PR	Water pump	Remanufactured; Walking, reverse gear
1	WP1397-PR	Water pump	Remanufactured; Running, 3 weep hole style, cast 5101162, 8921099, 8922326 [23506623, 8922335, 8921104]
1	7111X-BP	Water pump	Remanufactured; Walking, bolt on cover plate on back, cast 5101802 [5149320]
Coach			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
1	23506852-F	Water pump kit	
1	23506854-F	Water pump kit	Seal kit, snap ring cover pump
1	23506859-F	Water pump kit	Seal kit, bolt on cover pump
2	5102112-F	Thermostat	160F, full blocking, use seal
2	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
2	5106232-F	Thermostat	180F
2	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
2	5132155-F	Thermostat seal	
2	5117993-F	Gasket thermostat	LB and RB housing to head
1	5123570-F	Gasket thermostat	RB housing to head
1	5133254-F	Gasket thermostat	LB housing to head
2	5117786-F	Gasket thermostat	Cover to housing
2	5144277-F	Gasket thermostat	Cover to housing
1	5123716-F	Gasket thermostat	LB housing to head
1	5123715-F	Gasket thermostat	RB housing to head
1	5175989-F	Gasket thermostat	Cover to housing
2	5117786-F	Gasket thermostat	Cover to housing
2	5117993-F	Gasket thermostat	LB and RB housing to head
2	5100860-F	Gasket thermostat cvr	Cover to housing
1	5123575-F	Gasket thermostat cvr	Cover to housing
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
1	5170466-F	Gasket turbo	
1	5170468-F	Gasket turbo drain	TV turbo
2	5122866-F	Gasket manifold exhaust	metal clad
4	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139

Detroit	6V92	https://trackmanualshub.com/
Diesel	(Continued)	6 th Cylinder
806x-xxxx		Bore 4.840 Stroke 5.000

MISC

1	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149646-F	Set blower installation	Non turbo
1	5149641-F	Set blower installation	Turbo
1	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
1	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
1	23503682-F	Blower drive coupling	Assembly, cam 29T & spring pack style
1	8923052-F	Blower drive shaft	48 spline, 0.790 diameter x 4.89 length
1	8922666-F	Blower drive shaft	29 spline, 0.790 diameter x 4.89 length
1	5154637-F	Retainer blower drive	
1	5103515-F	Gasket blower inlet	With screen
2	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
1	5104978-F	Seal blower inlet	Square cross section
1	23513179-F	Gasket blower mtg	Blower to block
1	5145235-F	Gasket blower mtg	Blower to block, less screen
1	8924266-F	Gasket blower endplate	

Detroit 8V92		https://truckmanualshub.com/	
Diesel		8-Cylinder	
808x-xxxx		Bore 4.840	
		Stroke 5.000	
ENGINE KITS			
1	8V92IF24346	InFrame kit	Natural, xhead, 1.05 or 0.95 port
1	8V92OF24346	Overhaul kit	Natural, xhead, 1.05 or 0.95 port
1	8V92IF24340	InFrame kit	Turbo, xhead, 1.05 or 0.95 port
1	8V92OF24340	Overhaul kit	Turbo, xhead, 1.05 or 0.95 port
CYLINDER KIT			
CK20		Xhead, non-turbo, 1.05 port, 18:1	
Option: 146, 147, 148, 222, 226, 259, 264, 304, 315, 317			
8	23524345-F	Cylinder kit	Std, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24346]
8	23524345 1-F	Cylinder kit	.001, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24346]
8	23524345 10-F	Cylinder kit	.010, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24346]
8	23524345 20-F	Cylinder kit	.020, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24346]
CK21		Xhead, non-turbo, 0.95 port, 18:1; Industrial and Marine	
Option: 215, 224, 227, 316			
8	23524346-F	Cylinder kit	Std, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24346]
8	23524346 1-F	Cylinder kit	.001, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24346]
8	23524346 10-F	Cylinder kit	.010, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24346]
8	23524346 20-F	Cylinder kit	.020, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24346]
CK22		Xhead, Turbo/Aftercooled, 0.85 port, 18:1 (8V92 Cal)	
Option: 310, 324, 375, 419, 420			
8	23524344-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 ring, 5101120 pin, 23508383 liner] [LCK-24346]
CK24		Xhead, Turbo/Aftercooled, 0.75 port, 18:1 (6V92 Fed Coach)	
Option: 295, 378			
8	23523100-F	Cylinder kit	Std, Turbo/Aftercooled, 0.75 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 8927078 liner] [LCK-24346]
CK23		Xhead, Turbo, 1.05 port, 17:1	
Option: 149, 150, 202, 221, 228, 250, 255, 262, 275, 277, 278, 279, 299, 409			
8	23524339-F	Cylinder kit	Std, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24340]
8	23524339 1-F	Cylinder kit	.001, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24340]
8	23524339 10-F	Cylinder kit	.010, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24340]
8	23524339 20-F	Cylinder kit	.020, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24340]
CK31		Xhead, Turbo, 0.95 port, 17:1	
Option: 153, 190, 223, 225, 247, 248, 251, 252, 259, 260, 263, 272, 273, 274, 276, 320, 323, 331, 380			
8	23524341-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24340]
8	23524341 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24340]
8	23524341 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24340]
8	23524341 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24340]
CK25		Xhead, Turbo, 0.95 port, 17:1 (6V92 coach)	
Option: 410			

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.840 Stroke 5.000
8	23524342-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 liner] [LCK-24342]
8	23524342 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 1 liner] [LCK-24342]
8	23524342 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 10 liner] [LCK-24342]
8	23524342 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 20 liner] [LCK-24342]
CK26		Xhead, Turbo Hi Ouput, 0.95 port, 17:1, brushed	
Option: 395, 396, 407, 458			
8	23524340-F	Cylinder kit	Std, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24340]
8	23524340 1-F	Cylinder kit	.001, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24340]
8	23524340 10-F	Cylinder kit	.010, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24340]
8	23524340 20-F	Cylinder kit	.020, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24340]
CK27		Xhead, Turbo, 0.85 port, 17:1	
8	23523101-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23508383 liner] [LCK-24340]
CK28		Xhead, Turbo, 0.85 port, 17:1	
8	23524494-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
CK29		Xhead, Turbo/Aftercooled, 0.85 port, 17:1, brushed	
Option: 430, 431, 432, 452			
8	23524343-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
CK30		Xhead, Turbo, 0.95 port, 15:1, brushed	
Option: 411			
8	23524337-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24337]
8	23524337 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24337]
8	23524337 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24337]
8	23524337 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24337]
8	LCK-24346-F	Linerless cylinder kit	Cylinder kit less liner [23500883 dome kit, 23524349 rings] Cyl kits: 23524345, 23524346, 23524344, 23523100
8	LCK-24340-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524349 rings] Cyl kits: 23524339, 23524341, 23524340, 23523101
8	LCK-24342-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524542 rings] Cyl kits: 23524342, 23524494, 23524343
8	LCK-24337-F	Linerless cylinder kit	Cylinder kit less liner [23505052 dome kit, 23524349 rings] Cyl kit: 23524337
8	5149963-F	Piston dome kit	Kit, 17:1, xhead [5144872, crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
8	5144872-F	Piston crown	Xhead, 17:1
8	23500883-F	Piston dome kit	Kit, 18:1, xhead [8926480 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
8	8926480-F	Piston crown	Xhead 18:1
8	23505052-F	Piston dome kit	Kit, 15:1, xhead [23504353 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
8	23504353-F	Piston crown	Xhead, 15:1
8	23508986-F	Piston skirt	
8	23501687-F	Slipper bearing	for xhead pistons
8	8923729-F	Piston seal	
16	5144846-F	Spacer piston bolt	for xhead pistons

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.840 Stroke 5.000
16	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
8	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
8	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type
16	5180250-F	Retainer piston pin	for xhead pistons
8	23524349-F	Ring set	Xhead, wide gap fire ring; (1) 23524192, (2) 8923113, (1) 23524350
8	23524542-F	Ring set	Xhead, std gap fire ring; (1) 23524191, (2) 8923113, (1) 2354350
8	23523102	Ring set	[Discontinued] Xhead, std gap fire ring; (1) 23524191, (2) 8924806, (1) 23524350
8	8927078-F	Cylinder liner	0.75 port, Std, 20 degree port
8	23508383-F	Cylinder liner	0.85 port, Std, 20 degree port
8	5107176-F	Cylinder liner	0.95 port, Std
8	5107176 1-F	Cylinder liner	0.95 port, .001
8	5107176 10-F	Cylinder liner	0.95 port, .010
8	5107176 20-F	Cylinder liner	0.95 port, .020
8	23507231-F	Cylinder liner	0.95 port, Std, brushed
8	23507231 1-F	Cylinder liner	0.95 port, .001, brushed
8	23507231 10-F	Cylinder liner	0.95 port, .010, brushed
8	23507231 20-F	Cylinder liner	0.95 port, .020, brushed
8	5148505-F	Cylinder liner	1.05 port, Std, 30 degree port
8	5148505 1-F	Cylinder liner	1.05 port, .001, 30 degree port
8	5148505 10-F	Cylinder liner	1.05 port, .010, 30 degree port
8	5148505 20-F	Cylinder liner	1.05 port, .020, 30 degree port
16	8927189-F	Cylinder liner oring	
8	5148612-F	Cylinder liner insert	Std; .1188 - .1193 thick
8	5148501-F	Cylinder liner insert	Std; .1200 - .1205 thick
8	5148611-F	Cylinder liner insert	Std; .1212 - .1217 thick
8	5101723-F	Cylinder liner insert	.015 ID; .1338 - .1343 thick
8	5101533-F	Cylinder liner insert	.015 ID; .1350 - .1355 thick
8	5101727-F	Cylinder liner insert	.015 ID; .1362 - .1367 thick
BEARINGS			
8	5149572-F	Bearing rod pair	Std
8	5149573-F	Bearing rod pair	.002
8	5149575-F	Bearing rod pair	.010
8	5149577-F	Bearing rod pair	.020
8	5149579-F	Bearing rod pair	.030
8	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
8	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
8	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
8	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
8	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
5	5149565-F	Bearing main pair	Std; Turbo, slotted
5	5149566-F	Bearing main pair	.002; Turbo, slotted

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8 Cylinder Bore 4.840 Stroke 5.000
5	5149567-F	Bearing main pair	.010; Turbo, slotted
5	5149568-F	Bearing main pair	.020; Turbo, slotted
5	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std
4	5196753-F	Thrust washer	.005 oversize
4	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
6	5196026-F	Bearing cam	Intermediate, std
2	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
2	5117984-F	Bearing cam	Front
4	5111424-F	Thrust washer cam	
GASKET & SEALS			
1	23512685-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
2	5199674-F	Set cylinder head	Does not include rocker cover gaskets
	G1	UPPER GASKETS	
8	5100404-F	Gasket cylinder head	Compression
2	5104081-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
4	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	23506157-F	Gasket block endplate	Block rear to plate
1	5144875-F	Gasket flywheel hsg	Housing to end plate
1	5147246-F	Gasket flywheel hsg	Housing to end plate
Type: 504, 506, 528, 533, 540, 546, 581, 582, 594, 602, 646, 657, 658, 659, 660, 661, 662, 663, 670, 674, 686, 687, 727			
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
3	5104507-F	Gasket flywheel cvr	Small hole, star shaped
1	5123638-F	Gasket front cover	Upper
1	5121714-F	Gasket front cover	Lower
	G5	PAN GASKETS	
1	5117231-F	Gasket oil pan	Oil pan to block, stamped pan
1	5150115-F	Gasket oil pan	Stamped and cast 371; Lower front pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5150116-F	Gasket oil pan	Stamped and cast 471; Lower rear pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5153256-F	Gasket oil pan	Lower oil pan
	G3	CRANK SEALS	
1	5115454-F	Seal crankshaft front	Single lip, std, non directional (2.875 shaft, 3.756 OD, .500 width)
1	5143108-F	Seal crankshaft front	Submersible
1	8922045-F	Seal crankshaft front	Single lip, RH rotation
1	8922046-F	Seal crankshaft front	Single lip, LH rotation
1	5114802-F	Seal crankshaft rear	Single lip, Std, non directional (5.187 shaft, 6.507 OD)
1	8926761-F	Seal crankshaft rear	Single lip, Std
1	5194462-F	Seal crankshaft rear	Single lip, O/S, non directional (5.312 shaft, 6.507 OD, .625 width)
1	5106329-F	Seal crankshaft rear	Double lip, Std, non directional (5.187 shaft, 0.812 width, 6.507 OD)
1	5198159-F	Seal crankshaft rear	Double lip, O/S, non directional (5.312 shaft, 6.513 OD, 1.033 width)
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23501610-F	Seal crankshaft rear	Teflon, std, LH rotation (5.187 shaft, 6.507 OD)
1	23501545-F	Seal crankshaft rear	Teflon, O/S, LH rotation (5.312 shaft, 6.513 OD, single lip)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
1	23507226-F	Sleeve crankshaft	Rear, use with oversize seals (5.187 shaft, 5.312 OD, 1.380 width)
CAMSHAFT			
1	5108117	Camshaft	[Discontinued, check for reman] Left bank, RH rotation, stamped 5108115

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.840 Stroke 5.000
1	5108118	Camshaft	[Discontinued, check for reman] Right bank, RH rotation, stamped 5108116
1	8921402	Camshaft	[Being discontinued, check availability] Left bank, RH rotation, stamped 8921371
1	8921403	Camshaft	[Being discontinued, check availability] Right bank, RH rotation, stamped 8921372
1	5199383	Gear idler	[Discontinued] Assembly, LH helix
1	5199326-B	Gear idler	Assembly, RH helix
1	7451948-F	Bearing idler	Assembly
24	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
24	8923814-F	Follower roller set	Includes: roller, bushing, pin
8	5106413-B	Guide cam follower	
16	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
16	103319-F	Lockwasher	1/4
24	5128640-F	Push rod	
24	5151601-F	Push rod nut	5/16 - 24, lock
24	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
24	5150303-F	Retainer push rod	Snap ring
24	5108919-F	Seat push rod spring	Upper
24	5123250-F	Seat push rod spring	Lower
8	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
8	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
8	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
8	23502616-F	Rocker arm	Injector, city coach applications; blue paint
16	5122445-F	Bushing rocker arm	Valve, large
16	8924354-F	Bushing rocker arm	Valve and injector, small
8	8924355-F	Bushing rocker arm	Injector, large
24	5150312-F	Clevis rocker arm	Valve and injector
24	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
8	23502615-F	Bushing clevis	Injector, coach, .6295 OD
24	5150314-F	Pin clevis	Valve and injector
8	23500714-F	Rocker shaft	
8	23500671	Rocker shaft	[Discontinued] 6V and 8V DDEC engines
16	5148491-F	Valve bridge	
16	5117564-F	Valve bridge guide	Press fit
VALVE TRAIN			
2	5149878C	Cylinder head	Assembly, 4 valve, complete remanufactured
32	5149771-F	Valve exhaust	With locks
64	5111337-F	Valve lock	
32	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
32	8927794-F	Valve spring	.240 length, purple stripe; DDEC Coach
32	5117563-F	Valve spring cap	
32	5117562-F	Valve spring seat	
32	5129919-F	Valve guide	
32	8921209-F	Valve guide seal	Metal with teflon lip
32	5148490-F	Valve seat	Standard
32	5101315-F	Valve seat	.010 oversize
CRANKSHAFT			
1	8926923-F	Crankshaft	RH engine rotation
1	8926924-B	Crankshaft	LH engine rotation
1	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	8924435-F	Damper vibration	18.0 OD
1	8920653-F	Damper vibration	13.5 OD
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8" Cylinder Bore 4.840 Stroke 5.000
1	8924435-F	Damper vibration	18.0 OD
1	5134917-F	Cone damper	0.531 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23507297-F	Cone damper	2.22 length, rear
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
CONNECTING ROD			
8	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
8	5104501	Connecting rod	Crosshead style, cast# 5104502
16	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
16	5117629-F	Nut connecting rod	7/16 - 20
OIL / LUBE SYSTEM			
1	5117242-F	Gasket oil sump	Inlet pipe at pump; 3.00 bolt center
1	5163780	Gasket oil sump	[Discontinued] Inlet pipe; 2-21/32 bolt center
1	5126160-F	Gasket oil sump	Inlet pipe; 1.80 bolt center
1	5126161	Gasket oil sump	[Discontinued] Inlet pipe; 2.50 bolt center
1	8547195-F	Oil cooler core	18 plate, single stack
1	8547237-F	Oil cooler core	24 plate, double stack
1	8547552-F	Oil cooler core	32 plate, double stack
1	8547553-F	Oil cooler core	16 plate, double stack
1	8547555-B	Oil cooler core	12 plate, single stack, double base
1	8547581-F	Oil cooler core	13 plate, single stack
1	5150155-F	Gasket oil cooler	Core inner; single stack
1	5102506-F	Gasket oil cooler	Core outer; single stack
1	8923223-F	Gasket oil cooler	Core outer; single stack
1	8923222-F	Gasket oil cooler	Plate to adaptor; single stack
1	8926782-F	Gasket oil cooler	Core inner; double stack
4	23501595-F	Gasket oil cooler	Core inner; double stack
1	23501587-F	Gasket oil cooler	Element to block; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
2	23501584-F	Gasket oil cooler	Core outer; double stack
2	5117535-F	Gasket oil cooler	Adaptor to block
1	8923512-F	Gasket oil cooler	Adaptor cover
1	23501594-F	Gasket oil cooler	Adaptor cover
1	5149946-F	Set oil cooler adaptor	
FUEL / INJECTOR			
8	5229410R-P	Injector reman	
8	5229170R-P	Injector reman	
8	5229380R-P	Injector reman	
8	5229180R-P	Injector reman	
8	5229400R-P	Injector reman	
8	5229405R-P	Injector reman	
8	5229395R-P	Injector reman	
8	5229855R-B	Injector	7E70, remanufactured
8	5229820R-P	Injector reman	7E75, remanufactured
8	5229805R-P	Injector reman	
8	5229815R-P	Injector reman	
8	5229810R-P	Injector reman	
8	5229895R-P	Injector reman	
8	5229900R-P	Injector reman	
8	5229905R-P	Injector reman	

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8-Cylinder Bore 4.840 Stroke 5.000
8	5229620R-P	Injector reman	
8	5229625R-P	Injector reman	
8	5229630R-P	Injector reman	
8	5229870R-B	Injector	9C70, remanufactured
8	5229875R-B	Injector	9C75, remanufactured
8	5229880R-P	Injector reman	
8	5229885R-B	Injector	9C85, remanufactured
8	5229890R-P	Injector reman	
8	5229970R-P	Injector reman	
8	5229975R-P	Injector reman	
8	5226635R-P	Injector reman	
8	8925981-F	Injector tube kit	Copper, pre-reamed with seal
8	5104701-F	Oring injector tube	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
2	23512243-F	Fuel pump kit	Fuel pump seals
6	5117369-F	Fuel connector	Flared style
6	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
8	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
8	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	WP1395A-PR	Water pump	Remanufactured; Walking, 3 weep hole style, cast 5101261, 8921100, 8922325 [23506602, 8922336, 8921105]
1	WP1395AR-PR	Water pump	Remanufactured; Walking, reverse gear
1	WP1397-PR	Water pump	Remanufactured; Running, 3 weep hole style, cast 5101162, 8921099, 8922326 [23506623, 8922335, 8921104]
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
1	23506852-F	Water pump kit	
1	23506854-F	Water pump kit	Seal kit, snap ring cover pump
1	23506859-F	Water pump kit	Seal kit, bolt on cover pump
2	5102112-F	Thermostat	160F, full blocking, use seal
2	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
2	5106232-F	Thermostat	180F
2	5104096-F	Thermostat	180F, partial blocking choke and shield [type 3]
2	5132155-F	Thermostat seal	
2	5117993-F	Gasket thermostat	LB and RB housing to head
1	5123570-F	Gasket thermostat	RB housing to head
1	5133254-F	Gasket thermostat	LB housing to head
2	5117786-F	Gasket thermostat	Cover to housing
2	5144277-F	Gasket thermostat	Cover to housing
1	5123716-F	Gasket thermostat	LB housing to head
1	5123715-F	Gasket thermostat	RB housing to head
1	5175989-F	Gasket thermostat	Cover to housing
2	5117786-F	Gasket thermostat	Cover to housing
2	5117993-F	Gasket thermostat	LB and RB housing to head
2	5100860-F	Gasket thermostat cvr	Cover to housing
1	5123575-F	Gasket thermostat cvr	Cover to housing

Detroit Diesel 808x-xxxx		8V92 (Continued)	https://trackmanualshub.com/ 8 th Cylinder Bore 4.840 Stroke 5.000
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
1	5170466-F	Gasket turbo	
1	5170468-F	Gasket turbo drain	TV turbo
4	5120224-F	Gasket manifold exhaust	ends, metal clad
4	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
1	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
1	5149644-F	Set blower installation	Non turbo
1	5149643-F	Set blower installation	Turbo
1	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
1	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
1	23503682-F	Blower drive coupling	Assembly, cam 29T & spring pack style
1	8923053-F	Blower drive shaft	48 spline, 0.790 diameter x 6.67 length, carbonitride
1	8922634-F	Blower drive shaft	29 spline, 0.790 diameter x 6.67 length
1	5154637-F	Retainer blower drive	
1	5103602-F	Gasket blower inlet	With screen
2	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
1	5104978-F	Seal blower inlet	Square cross section
1	23520012-F	Gasket blower mtg	Blower to block
1	5145086-F	Gasket blower mtg	Blower to block, less screen
1	8924266-F	Gasket blower endplate	

Detroit 12V92		https://truckmanualshub.com/	
Diesel		12 Cylinder	
812x-xxxx		Bore 4.840	
		Stroke 5.000	
CYLINDER KIT			
CK20		Xhead, non-turbo, 1.05 port, 18:1	
Option: 146, 147, 148, 222, 226, 259, 264, 304, 315, 317			
12	23524345-F	Cylinder kit	Std, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24346]
12	23524345 1-F	Cylinder kit	.001, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24346]
12	23524345 10-F	Cylinder kit	.010, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24346]
12	23524345 20-F	Cylinder kit	.020, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24346]
CK21		Xhead, non-turbo, 0.95 port, 18:1; Industrial and Marine	
Option: 215, 224, 227, 316			
12	23524346-F	Cylinder kit	Std, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24346]
12	23524346 1-F	Cylinder kit	.001, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24346]
12	23524346 10-F	Cylinder kit	.010, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24346]
12	23524346 20-F	Cylinder kit	.020, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24346]
CK22		Xhead, Turbo/Aftercooled, 0.85 port, 18:1 (8V92 Cal)	
Option: 310, 324, 375,419, 420			
12	23524344-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 ring, 5101120 pin, 23508383 liner] [LCK-24346]
CK24		Xhead, Turbo/Aftercooled, 0.75 port, 18:1 (6V92 Fed Coach)	
Option: 295, 378			
12	23523100-F	Cylinder kit	Std, Turbo/Aftercooled, 0.75 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 8927078 liner] [LCK-24346]
CK23		Xhead, Turbo, 1.05 port, 17:1	
Option: 149, 150, 202, 221, 228, 250, 255, 262, 275, 277, 278, 279, 299, 409			
12	23524339-F	Cylinder kit	Std, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24340]
12	23524339 1-F	Cylinder kit	.001, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24340]
12	23524339 10-F	Cylinder kit	.010, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24340]
12	23524339 20-F	Cylinder kit	.020, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24340]
CK31		Xhead, Turbo, 0.95 port, 17:1	
Option: 153, 190, 223, 225, 247, 248, 251, 252, 259, 260, 263, 272, 273, 274, 276, 320, 323, 331, 380			
12	23524341-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24340]
12	23524341 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24340]
12	23524341 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24340]
12	23524341 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24340]
CK25		Xhead, Turbo, 0.95 port, 17:1 (6V92 coach)	
Option: 410			
12	23524342-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 liner] [LCK-24342]
12	23524342 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 1 liner] [LCK-24342]
12	23524342 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 10 liner] [LCK-24342]

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://trackmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
12	23524342 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 20 liner] [LCK-24342]
	CK26		Xhead, Turbo Hi Ouput, 0.95 port, 17:1, brushed
Option: 395, 396, 407, 458			
12	23524340-F	Cylinder kit	Std, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24340]
12	23524340 1-F	Cylinder kit	.001, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24340]
12	23524340 10-F	Cylinder kit	.010, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24340]
12	23524340 20-F	Cylinder kit	.020, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24340]
	CK27		Xhead, Turbo, 0.85 port, 17:1
12	23523101-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23508383 liner] [LCK-24340]
	CK28		Xhead, Turbo, 0.85 port, 17:1
12	23524494-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
	CK29		Xhead, Turbo/Aftercooled, 0.85 port, 17:1, brushed
Option: 430, 431, 432, 452			
12	23524343-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
	CK30		Xhead, Turbo, 0.95 port, 15:1, brushed
Option: 411			
12	23524337-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24337]
12	23524337 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24337]
12	23524337 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24337]
12	23524337 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24337]
12	LCK-24346-F	Linerless cylinder kit	Cylinder kit less liner [23500883 dome kit, 23524349 rings] Cyl kits: 23524345, 23524346, 23524344, 23523100
12	LCK-24340-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524349 rings] Cyl kits: 23524339, 23524341, 23524340, 23523101
12	LCK-24342-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524542 rings] Cyl kits: 23524342, 23524494, 23524343
12	LCK-24337-F	Linerless cylinder kit	Cylinder kit less liner [23505052 dome kit, 23524349 rings] Cyl kit: 23524337
12	5149963-F	Piston dome kit	Kit, 17:1, xhead [5144872, crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
12	5144872-F	Piston crown	Xhead, 17:1
12	23500883-F	Piston dome kit	Kit, 18:1, xhead [8926480 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
12	8926480-F	Piston crown	Xhead 18:1
12	23505052-F	Piston dome kit	Kit, 15:1, xhead [23504353 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
12	23504353-F	Piston crown	Xhead, 15:1
12	23508986-F	Piston skirt	
12	23501687-F	Slipper bearing	for xhead pistons
12	8923729-F	Piston seal	
24	5144846-F	Spacer piston bolt	for xhead pistons
24	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
12	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
12	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://trackmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
24	5180250-F	Retainer piston pin	for xhead pistons
12	23524349-F	Ring set	Xhead, wide gap fire ring; (1) 23524192, (2) 8923113, (1) 23524350
12	23524542-F	Ring set	Xhead, std gap fire ring; (1) 23524191, (2) 8923113, (1) 2354350
12	23523102	Ring set	[Discontinued] Xhead, std gap fire ring; (1) 23524191, (2) 8924806, (1) 23524350
12	8927078-F	Cylinder liner	0.75 port, Std, 20 degree port
12	23508383-F	Cylinder liner	0.85 port, Std, 20 degree port
12	5107176-F	Cylinder liner	0.95 port, Std
12	5107176 1-F	Cylinder liner	0.95 port, .001
12	5107176 10-F	Cylinder liner	0.95 port, .010
12	5107176 20-F	Cylinder liner	0.95 port, .020
12	23507231-F	Cylinder liner	0.95 port, Std, brushed
12	23507231 1-F	Cylinder liner	0.95 port, .001, brushed
12	23507231 10-F	Cylinder liner	0.95 port, .010, brushed
12	23507231 20-F	Cylinder liner	0.95 port, .020, brushed
12	5148505-F	Cylinder liner	1.05 port, Std, 30 degree port
12	5148505 1-F	Cylinder liner	1.05 port, .001, 30 degree port
12	5148505 10-F	Cylinder liner	1.05 port, .010, 30 degree port
12	5148505 20-F	Cylinder liner	1.05 port, .020, 30 degree port
24	8927189-F	Cylinder liner oring	
12	5148612-F	Cylinder liner insert	Std; .1188 - .1193 thick
12	5148501-F	Cylinder liner insert	Std; .1200 - .1205 thick
12	5148611-F	Cylinder liner insert	Std; .1212 - .1217 thick
12	5101723-F	Cylinder liner insert	.015 ID; .1338 - .1343 thick
12	5101533-F	Cylinder liner insert	.015 ID; .1350 - .1355 thick
12	5101727-F	Cylinder liner insert	.015 ID; .1362 - .1367 thick
BEARINGS			
12	5149572-F	Bearing rod pair	Std
12	5149573-F	Bearing rod pair	.002
12	5149575-F	Bearing rod pair	.010
12	5149577-F	Bearing rod pair	.020
12	5149579-F	Bearing rod pair	.030
12	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
12	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
12	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
12	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
12	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
8	5149565-F	Bearing main pair	Std; Turbo, slotted
8	5149566-F	Bearing main pair	.002; Turbo, slotted
8	5149567-F	Bearing main pair	.010; Turbo, slotted
8	5149568-F	Bearing main pair	.020; Turbo, slotted
8	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
4	5196753-F	Thrust washer	.005 oversize
4	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
10	5196026-F	Bearing cam	Intermediate, std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
	5117984-F	Bearing cam	Front
8	5111424-F	Thrust washer cam	
GASKET & SEALS			
1	23512686-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
4	5199673-F	Set cylinder head	Does not include rocker cover gaskets
	G1	UPPER GASKETS	
12	5100404-F	Gasket cylinder head	Compression
4	5104018-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
8	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
1	23506157-F	Gasket block endplate	Block rear to plate
1	5144875-F	Gasket flywheel hsg	Housing to end plate
1	5147246-F	Gasket flywheel hsg	Housing to end plate
Type: 504, 506, 528, 533, 540, 546, 581, 582, 594, 602, 646, 657, 658, 659, 660, 661, 662, 663, 670, 674, 686, 687, 727			
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing injection cover
3	5104507-F	Gasket flywheel cvr	Small hole, star shaped
	G5	PAN GASKETS	
1	8920557-F	Gasket oil pan	Lower oil pan
1	5109915-F	Gasket oil pan	Oil pan to block, cast pan
2	5125635-F	Gasket oil pan	Sump to sub pan
1	5124796-F	Gasket oil pan	Cover to sub-pan
	G3	CRANK SEALS	
1	5114335-F	Seal crankshaft font/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
1	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
1	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
1	5114802-F	Seal crankshaft rear	Single lip, Std, non directional (5.187 shaft, 6.507 OD)
1	8926761-F	Seal crankshaft rear	Single lip, Std
1	5194462-F	Seal crankshaft rear	Single lip, O/S, non directional (5.312 shaft, 6.507 OD, .625 width)
1	5106329-F	Seal crankshaft rear	Double lip, Std, non directional (5.187 shaft, 0.812 width, 6.507 OD)
1	5198159-F	Seal crankshaft rear	Double lip, O/S, non directional (5.312 shaft, 6.513 OD, 1.033 width)
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23501610-F	Seal crankshaft rear	Teflon, std, LH rotation (5.187 shaft, 6.507 OD)
1	23501545-F	Seal crankshaft rear	Teflon, O/S, LH rotation (5.312 shaft, 6.513 OD, single lip)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
1	23507226-F	Sleeve crankshaft	Rear, use with oversize seals (5.187 shaft, 5.312 OD, 1.380 width)
CAMSHAFT			
1	5199383	Gear idler	[Discontinued] Assembly, LH helix
1	5199326-B	Gear idler	Assembly, RH helix
1	7451948-F	Bearing idler	Assembly

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
36	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
36	8923814-F	Follower roller set	Includes: roller, bushing, pin
12	5106413-B	Guide cam follower	
24	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
24	103319-F	Lockwasher	1/4
36	5128640-F	Push rod	
36	5151601-F	Push rod nut	5/16 - 24, lock
36	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
36	5150303-F	Retainer push rod	Snap ring
36	5108919-F	Seat push rod spring	Upper
36	5123250-F	Seat push rod spring	Lower
12	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
12	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
12	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
24	5122445-F	Bushing rocker arm	Valve, large
24	8924354-F	Bushing rocker arm	Valve and injector, small
12	8924355-F	Bushing rocker arm	Injector, large
36	5150312-F	Clevis rocker arm	Valve and injector
36	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
36	5150314-F	Pin clevis	Valve and injector
12	23500714-F	Rocker shaft	
24	5148491-F	Valve bridge	
24	5117564-F	Valve bridge guide	Press fit
VALVE TRAIN			
4	5149877C	Cylinder head	Assembly, 4 valve, complete remanufactured
48	5149771-F	Valve exhaust	With locks
96	5111337-F	Valve lock	
48	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
48	5117563-F	Valve spring cap	
48	5117562-F	Valve spring seat	
48	5129919-F	Valve guide	
48	8921209-F	Valve guide seal	Metal with teflon lip
48	5148490-F	Valve seat	Standard
48	5101315-F	Valve seat	.010 oversize
CRANKSHAFT			
1	8926925-F	Crankshaft	RH engine rotation, front
1	8926926-F	Crankshaft	RH engine rotation, rear
1	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	8924435-F	Damper vibration	18.0 OD
1	8920653-F	Damper vibration	13.5 OD
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD
1	8924435-F	Damper vibration	18.0 OD
1	5134917-F	Cone damper	0.531 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23507297-F	Cone damper	2.22 length, rear
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone
CONNECTING ROD			
12	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
12	5104501	Connecting rod	Crosshead style, cast# 5104502
24	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
24	5117629-F	Nut connecting rod	7/16 - 20
OIL / LUBE SYSTEM			
1	5128875-F	Gasket oil sump	Intlet pipe, scavenging pump, 3.00 bolt center
1	5128869	Gasket oil sump	[Discontinued] Inlet pipe; pump and screen; 2.88 bolt center
2	5117269-F	Gasket oil regulator	Outlet pipe, junction block
1	2206783-F	Gasket oil sump	Outlet pipe, junction outlet
1	5123660-F	Gasket oil sump	Outlet
1	8547236-F	Oil cooler core	13 plate, single stack
2	8547237-F	Oil cooler core	24 plate, double stack
1	8547551-F	Oil cooler core	8 plate, single stack
3	8926782-F	Gasket oil cooler	Core inner; double stack
2	23501584-F	Gasket oil cooler	Core outer; double stack
1	23501589-F	Gasket oil cooler	Core outer; double stack
4	5117535-F	Gasket oil cooler	Adaptor to block
FUEL / INJECTOR			
12	5229410R-P	Injector reman	
12	5229170R-P	Injector reman	
12	5229380R-P	Injector reman	
12	5229180R-P	Injector reman	
12	5229400R-P	Injector reman	
12	5229405R-P	Injector reman	
12	5229395R-P	Injector reman	
12	5229855R-B	Injector	7E70, remanufactured
12	5229820R-P	Injector reman	7E75, remanufactured
12	5229805R-P	Injector reman	
12	5229815R-P	Injector reman	
12	5229810R-P	Injector reman	
12	5229895R-P	Injector reman	
12	5229900R-P	Injector reman	
12	5229905R-P	Injector reman	
12	5229620R-P	Injector reman	
12	5229625R-P	Injector reman	
12	5229630R-P	Injector reman	
12	5229870R-B	Injector	9C70, remanufactured
12	5229875R-B	Injector	9C75, remanufactured
12	5229880R-P	Injector reman	
12	5229885R-B	Injector	9C85, remanufactured
12	5229890R-P	Injector reman	
12	5229970R-P	Injector reman	
12	5229975R-P	Injector reman	
12	5226635R-P	Injector reman	
12	8925981-F	Injector tube kit	Copper, pre-reamed with seal
12	5104701-F	Oring injector tube	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
2	23512243-F	Fuel pump kit	Fuel pump seals
8	5117369-F	Fuel connector	Flared style

Detroit Diesel 812x-xxxx		12V92 (Continued)	https://truckmanualshub.com/ 12 Cylinder Bore 4.840 Stroke 5.000
8	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
12	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)
12	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
1	23506871-F	Water pump kit	
4	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
4	5132155-F	Thermostat seal	
2	5144277-F	Gasket thermostat	Cover to housing
2	5175989-F	Gasket thermostat	Cover to housing
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
2	5170466-F	Gasket turbo	
2	5170468-F	Gasket turbo drain	TV turbo
4	5122866-F	Gasket manifold exhaust	metal clad
8	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
2	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
2	5149642-F	Set blower installation	Turbo and Non turbo
2	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
2	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
2	23503682-F	Blower drive coupling	Assembly, cam 29T & spring pack style
2	8923052-F	Blower drive shaft	48 spline, 0.790 diameter x 4.89 length
2	8922666-F	Blower drive shaft	29 spline, 0.790 diameter x 4.89 length
1	5154637-F	Retainer blower drive	
2	5103515-F	Gasket blower inlet	With screen
2	5104323-F	Gasket blower inlet	Less screen
4	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
2	5104978-F	Seal blower inlet	Square cross section
2	23513179-F	Gasket blower mtg	Blower to block
2	5145235-F	Gasket blower mtg	Blower to block, less screen
2	8924266-F	Gasket blower endplate	

Detroit 16V92		https://truckmanualshub.com/	
Diesel		16 Cylinder	
816x-xxxx		Bore 4.840	
		Stroke 5.000	
CYLINDER KIT			
CK20		Xhead, non-turbo, 1.05 port, 18:1	
Option: 146, 147, 148, 222, 226, 259, 264, 304, 315, 317			
16	23524345-F	Cylinder kit	Std, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24346]
16	23524345 1-F	Cylinder kit	.001, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24346]
16	23524345 10-F	Cylinder kit	.010, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24346]
16	23524345 20-F	Cylinder kit	.020, Non turbo, 1.05 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24346]
CK21		Xhead, non-turbo, 0.95 port, 18:1; Industrial and Marine	
Option: 215, 224, 227, 316			
16	23524346-F	Cylinder kit	Std, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24346]
16	23524346 1-F	Cylinder kit	.001, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24346]
16	23524346 10-F	Cylinder kit	.010, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24346]
16	23524346 20-F	Cylinder kit	.020, Non turbo, 0.95 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24346]
CK22		Xhead, Turbo/Aftercooled, 0.85 port, 18:1 (8V92 Cal)	
Option: 310, 324, 375,419, 420			
16	23524344-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 ring, 5101120 pin, 23508383 liner] [LCK-24346]
CK24		Xhead, Turbo/Aftercooled, 0.75 port, 18:1 (6V92 Fed Coach)	
Option: 295, 378			
16	23523100-F	Cylinder kit	Std, Turbo/Aftercooled, 0.75 port, 1.50 pin, xhead, 18.0:1 [23500883 dome kit, 23524349 rings, 5101120 pin, 8927078 liner] [LCK-24346]
CK23		Xhead, Turbo, 1.05 port, 17:1	
Option: 149, 150, 202, 221, 228, 250, 255, 262, 275, 277, 278, 279, 299, 409			
16	23524339-F	Cylinder kit	Std, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 liner] [LCK-24340]
16	23524339 1-F	Cylinder kit	.001, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 1 liner] [LCK-24340]
16	23524339 10-F	Cylinder kit	.010, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 10 liner] [LCK-24340]
16	23524339 20-F	Cylinder kit	.020, Turbo, 1.05 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5148505 20 liner] [LCK-24340]
CK31		Xhead, Turbo, 0.95 port, 17:1	
Option: 153, 190, 223, 225, 247, 248, 251, 252, 259, 260, 263, 272, 273, 274, 276, 320, 323, 331, 380			
16	23524341-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 liner] [LCK-24340]
16	23524341 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 1 liner] [LCK-24340]
16	23524341 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 10 liner] [LCK-24340]
16	23524341 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 5107176 20 liner] [LCK-24340]
CK25		Xhead, Turbo, 0.95 port, 17:1 (6V92 coach)	
Option: 410			
16	23524342-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 liner] [LCK-24342]
16	23524342 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 1 liner] [LCK-24342]
16	23524342 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 10 liner] [LCK-24342]

Detroit Diesel 816x-xxxx		16V92 (Continued)	https://trackmanualshub.com/ 16 Cylinder Bore 4.840 Stroke 5.000
16	23524342 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23507231 20 liner] [LCK-24342]
	CK26		Xhead, Turbo Hi Ouput, 0.95 port, 17:1, brushed
Option: 395, 396, 407, 458			
16	23524340-F	Cylinder kit	Std, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24340]
16	23524340 1-F	Cylinder kit	.001, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24340]
16	23524340 10-F	Cylinder kit	.010, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24340]
16	23524340 20-F	Cylinder kit	.020, Turbo Hi Ouput, 0.95 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24340]
	CK27		Xhead, Turbo, 0.85 port, 17:1
16	23523101-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524349 rings, 5101120 pin, 23508383 liner] [LCK-24340]
	CK28		Xhead, Turbo, 0.85 port, 17:1
16	23524494-F	Cylinder kit	Std, Turbo, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
	CK29		Xhead, Turbo/Aftercooled, 0.85 port, 17:1, brushed
Option: 430, 431, 432, 452			
16	23524343-F	Cylinder kit	Std, Turbo/Aftercooled, 0.85 port, 1.50 pin, xhead, 17.0:1 [5149963 dome kit, 23524542 rings, 5101120 pin, 23508383 liner] [LCK-24342]
	CK30		Xhead, Turbo, 0.95 port, 15:1, brushed
Option: 411			
16	23524337-F	Cylinder kit	Std, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 liner] [LCK-24337]
16	23524337 1-F	Cylinder kit	.001, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 1 liner] [LCK-24337]
16	23524337 10-F	Cylinder kit	.010, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 10 liner] [LCK-24337]
16	23524337 20-F	Cylinder kit	.020, Turbo, 0.95 port, 1.50 pin, xhead, 15.0:1 [23505052 dome kit, 23524349 rings, 5101120 pin, 23507231 20 liner] [LCK-24337]
16	LCK-24346-F	Linerless cylinder kit	Cylinder kit less liner [23500883 dome kit, 23524349 rings] Cyl kits: 23524345, 23524346, 23524344, 23523100
16	LCK-24340-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524349 rings] Cyl kits: 23524339, 23524341, 23524340, 23523101
16	LCK-24342-F	Linerless cylinder kit	Cylinder kit less liner [5149963 dome kit, 23524542 rings] Cyl kits: 23524342, 23524494, 23524343
16	LCK-24337-F	Linerless cylinder kit	Cylinder kit less liner [23505052 dome kit, 23524349 rings] Cyl kit: 23524337
16	5149963-F	Piston dome kit	Kit, 17:1, xhead [5144872, crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
16	5144872-F	Piston crown	Xhead, 17:1
16	23500883-F	Piston dome kit	Kit, 18:1, xhead [8926480 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
16	8926480-F	Piston crown	Xhead 18:1
16	23505052-F	Piston dome kit	Kit, 15:1, xhead [23504353 crown, 5101120 pin, 23501687 slipper brg, 5180250 ret, 8923729 seal]
16	23504353-F	Piston crown	Xhead, 15:1
16	23508986-F	Piston skirt	
16	23501687-F	Slipper bearing	for xhead pistons
16	8923729-F	Piston seal	
32	5144846-F	Spacer piston bolt	for xhead pistons
32	5148373-F	Bolt piston pin	for xhead pistons, connecting rod to pin, 7/16-20 x 2.00
16	5101120-F	Piston pin	1.50 diameter, xhead, solid; 3.63 OAL
16	5144744-F	Piston pin	1.50 diameter, xhead, nut plate type

Detroit Diesel 816x-xxxx		16V92 (Continued)	https://trackmanualshub.com/ 16 Cylinder Bore 4.840 Stroke 5.000
32	5180250-F	Retainer piston pin	for xhead pistons
16	23524349-F	Ring set	Xhead, wide gap fire ring; (1) 23524192, (2) 8923113, (1) 23524350
16	23524542-F	Ring set	Xhead, std gap fire ring; (1) 23524191, (2) 8923113, (1) 2354350
16	23523102	Ring set	[Discontinued] Xhead, std gap fire ring; (1) 23524191, (2) 8924806, (1) 23524350
16	8927078-F	Cylinder liner	0.75 port, Std, 20 degree port
16	23508383-F	Cylinder liner	0.85 port, Std, 20 degree port
16	5107176-F	Cylinder liner	0.95 port, Std
16	5107176 1-F	Cylinder liner	0.95 port, .001
16	5107176 10-F	Cylinder liner	0.95 port, .010
16	5107176 20-F	Cylinder liner	0.95 port, .020
16	23507231-F	Cylinder liner	0.95 port, Std, brushed
16	23507231 1-F	Cylinder liner	0.95 port, .001, brushed
16	23507231 10-F	Cylinder liner	0.95 port, .010, brushed
16	23507231 20-F	Cylinder liner	0.95 port, .020, brushed
16	5148505-F	Cylinder liner	1.05 port, Std, 30 degree port
16	5148505 1-F	Cylinder liner	1.05 port, .001, 30 degree port
16	5148505 10-F	Cylinder liner	1.05 port, .010, 30 degree port
16	5148505 20-F	Cylinder liner	1.05 port, .020, 30 degree port
32	8927189-F	Cylinder liner oring	
16	5148612-F	Cylinder liner insert	Std; .1188 - .1193 thick
16	5148501-F	Cylinder liner insert	Std; .1200 - .1205 thick
16	5148611-F	Cylinder liner insert	Std; .1212 - .1217 thick
16	5101723-F	Cylinder liner insert	.015 ID; .1338 - .1343 thick
16	5101533-F	Cylinder liner insert	.015 ID; .1350 - .1355 thick
16	5101727-F	Cylinder liner insert	.015 ID; .1362 - .1367 thick
BEARINGS			
16	5149572-F	Bearing rod pair	Std
16	5149573-F	Bearing rod pair	.002
16	5149575-F	Bearing rod pair	.010
16	5149577-F	Bearing rod pair	.020
16	5149579-F	Bearing rod pair	.030
16	23501025	Bearing rod pair	[Discontinued] Std; Air to Air and ALCC
16	23501026-F	Bearing rod pair	.002; Air to Air and ALCC
16	23501027	Bearing rod pair	[Discontinued] .010; Air to Air and ALCC
16	23501028	Bearing rod pair	[Discontinued] .020; Air to Air and ALCC
16	23501029-F	Bearing rod pair	.030; Air to Air and ALCC
10	5149565-F	Bearing main pair	Std; Turbo, slotted
10	5149566-F	Bearing main pair	.002; Turbo, slotted
10	5149567-F	Bearing main pair	.010; Turbo, slotted
10	5149568-F	Bearing main pair	.020; Turbo, slotted
10	8922118-F	Bearing main pair	.030; Turbo, slotted
4	5117005-F	Thrust washer	Std

Detroit Diesel 816x-xxxx		16V92 (Continued)	https://trackmanualshub.com/ 16 Cylinder Bore 4.840 Stroke 5.000
4	5196753-F	Thrust washer	.005 oversize
4	5196754-F	Thrust washer	.010 oversize
4	141346-F	Thrust dowel pin	3/16 x 1/2
12	5196026-F	Bearing cam	Intermediate, std
4	5111422-F	Bearing cam	Front and rear on Inline and 16V; Rear all others
8	5111424-F	Thrust washer cam	
GASKET & SEALS			
1	23512687-F	Set overhaul	Does not include crankshaft seals or rocker cover gaskets
4	5199674-F	Set cylinder head	Does not include rocker cover gaskets
	G1	UPPER GASKETS	
16	5100404-F	Gasket cylinder head	Compression
4	5104081-F	Gasket valve cover	Cast aluminum cover, silicone, grooved
8	5104515-F	Isolator valve cover	For cast aluminum cover
	G4	LOWER GASKETS	
2	23506157-F	Gasket block endplate	Block rear to plate
1	5144875-F	Gasket flywheel hsg	Housing to end plate
1	5147246-F	Gasket flywheel hsg	Housing to end plate
Type: 504, 506, 528, 533, 540, 546, 581, 582, 594, 602, 646, 657, 658, 659, 660, 661, 662, 663, 670, 674, 686, 687, 727			
2	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
3	5104507-F	Gasket flywheel cvr	Small hole, star shaped
	G5	PAN GASKETS	
1	5150115-F	Gasket oil pan	Stamped and cast 371; Lower front pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5150116-F	Gasket oil pan	Stamped and cast 471; Lower rear pan 6V/8V/16V71 and 6V/16V92; 2 used on 16V
1	5126562-F	Gasket oil pan	Oil pan to block
2	23507204	Gasket oil pan	[Discontinued] Rear sump
	G3	CRANK SEALS	
1	5114335-F	Seal crankshaft front/rear	Single lip, std, non directional (4.687 shaft, 5.756 OD, .562 width) Font on 16V71 and 6V/8V 92; Rear on Inline 71 and 6V/8V/12V71
1	5197860-F	Seal crankshaft front/rea	Single lip, O/S, non directional (4.812 shaft, 5.756 OD, .562 width) 71 inline Rear; 6V/8V/12V71 Rear; 16V71 & 12V/16V92 Front
1	8927746-F	Seal crankshaft front/rea	Teflon, Std, LH front/RH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
1	8927747-F	Seal crankshaft front/rea	Teflon, Std, RH front/LH rear (4.687 shaft, 5.756 OD, .750 width) [71 series Rear, 92 series Front]
1	8927749-F	Seal crankshaft front/rea	Teflon, O/S, LH front/RH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
1	8927748-F	Seal crankshaft front/rea	Teflon, O/S, RH front/LH rear (4.812 shaft, 5.756 OD, .750 width) [71 inline Rear, 71V Front and Rear, 92 series Front]
1	5114802-F	Seal crankshaft rear	Single lip, Std, non directional (5.187 shaft, 6.507 OD)
1	8926761-F	Seal crankshaft rear	Single lip, Std
1	5194462-F	Seal crankshaft rear	Single lip, O/S, non directional (5.312 shaft, 6.507 OD, .625 width)
1	5106329-F	Seal crankshaft rear	Double lip, Std, non directional (5.187 shaft, 0.812 width, 6.507 OD)
1	5198159-F	Seal crankshaft rear	Double lip, O/S, non directional (5.312 shaft, 6.513 OD, 1.033 width)
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23501610-F	Seal crankshaft rear	Teflon, std, LH rotation (5.187 shaft, 6.507 OD)
1	23501545-F	Seal crankshaft rear	Teflon, O/S, LH rotation (5.312 shaft, 6.513 OD, single lip)
1	23507225-F	Sleeve crankshaft	Rear, use with oversize seals (4.687 shaft, 4.812 OD, 1.240 width)
1	23507226-F	Sleeve crankshaft	Rear, use with oversize seals (5.187 shaft, 5.312 OD, 1.380 width)
CAMSHAFT			
1	5107307	Camshaft	[Discontinued, check for reman] Right bank rear RH rotation, Left bank front LH rotation, stamped 5107243
1	5107308	Camshaft	[Discontinued, check for reman] Right bank rear LH rotation, Left bank front RH rotation, stamped 5102744
1	5199383	Gear idler	[Discontinued] Assembly, LH helix

Detroit Diesel 816x-xxxx		16V92 (Continued)	https://truckmanualshub.com/ 16 Cylinder Bore 4.840 Stroke 5.000
1	5199326-B	Gear idler	Assembly, RH helix
1	7451948-F	Bearing idler	Assembly
48	8924439-F	Follower assembly	Includes: follower, roller, bushing, pin
48	8923814-F	Follower roller set	Includes: roller, bushing, pin
16	5106413-B	Guide cam follower	
32	443603-F	Bolt cam follower guide	1/4 - 20 x 3/4
32	103319-F	Lockwasher	1/4
48	5128640-F	Push rod	
48	5151601-F	Push rod nut	5/16 - 24, lock
48	5108918-F	Push rod spring	.192 wire diameter, 2.62 free length, 10.5 coils, RH helix
48	5150303-F	Retainer push rod	Snap ring
48	5108919-F	Seat push rod spring	Upper
48	5123250-F	Seat push rod spring	Lower
16	5148472-F	Rocker arm	Valve, left; with clevis; 4 valve head
16	5148475-F	Rocker arm	Valve, right; with clevis; 4 valve head
16	8923554-F	Rocker arm	Injector, unbushed clevis; orange paint
32	5122445-F	Bushing rocker arm	Valve, large
32	8924354-F	Bushing rocker arm	Valve and injector, small
16	8924355-F	Bushing rocker arm	Injector, large
48	5150312-F	Clevis rocker arm	Valve and injector
48	5123700-F	Bushing clevis	Valve and injector, 0.44 ID x 0.5625 OD
48	5150314-F	Pin clevis	Valve and injector
16	23500714-F	Rocker shaft	
32	5148491-F	Valve bridge	
32	5117564-F	Valve bridge guide	Press fit
VALVE TRAIN			
4	5149878C	Cylinder head	Assembly, 4 valve, complete remanufactured
64	5149771-F	Valve exhaust	With locks
128	5111337-F	Valve lock	
64	5147347-F	Valve spring	0.148 wire diameter, 1.97 free length, 8.8 coils RH helix (single or double yellow stripe or single yellow and blue stripe)
64	5117563-F	Valve spring cap	
64	5117562-F	Valve spring seat	
64	5129919-F	Valve guide	
64	8921209-F	Valve guide seal	Metal with teflon lip
64	5148490-F	Valve seat	Standard
64	5101315-F	Valve seat	.010 oversize
CRANKSHAFT			
1	8926929	Crankshaft	[Discontinued, check for reground] RH engine rotation, front
1	8926931	Crankshaft	[Discontinued, check for reground] LH engine rotation, front
1	8926932	Crankshaft	[Discontinued, check for reground] LH engine rotation, rear
1	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	8924435-F	Damper vibration	18.0 OD
1	8920653-F	Damper vibration	13.5 OD
1	5106222-F	Damper vibration	Viscous heavy, 15.0 OD
1	8924435-F	Damper vibration	18.0 OD
1	5134917-F	Cone damper	0.531 length, front
1	5102957-F	Cone damper	0.937 length, front
1	23506876-F	Cone damper	1.40 length, front inline, rear vee
1	5104475-F	Cone damper	1.701 length, rear with seal groove
1	23507297-F	Cone damper	2.22 length, rear
1	23503769-F	Seal crank spacer	Front; 2.50 ID, .70 width, check for seal groove on cone

Detroit Diesel		16V92	https://trackmanualshub.com/
816x-xxxx		(Continued)	16 Cylinder Bore 4.840 Stroke 5.000
CONNECTING ROD			
16	5147798	Connecting rod	Crosshead, y-drilled, cast# 5144348
16	5104501	Connecting rod	Crosshead style, cast# 5104502
32	5132383-F	Bolt connecting rod	7/16 - 20 x 3.52
32	5117629-F	Nut connecting rod	7/16 - 20
OIL / LUBE SYSTEM			
3	5128891-F	Gasket oil sump	Inlet pipe, pump to screen; 2.88 bolt center
1	5128875-F	Gasket oil sump	Intlet pipe, scavenging pump, 3.00 bolt center
1	5128869	Gasket oil sump	[Discontinued] Inlet pipe; pump and screen; 2.88 bolt center
2	5117269-F	Gasket oil regulator	Outlet pipe, junction block
1	2206783-F	Gasket oil sump	Outlet pipe, junction outlet
1	5123660-F	Gasket oil sump	Outlet
FUEL / INJECTOR			
16	5229410R-P	Injector reman	
16	5229170R-P	Injector reman	
16	5229380R-P	Injector reman	
16	5229180R-P	Injector reman	
16	5229400R-P	Injector reman	
16	5229405R-P	Injector reman	
16	5229395R-P	Injector reman	
16	5229855R-B	Injector	7E70, remanufactured
16	5229820R-P	Injector reman	7E75, remanufactured
16	5229805R-P	Injector reman	
16	5229815R-P	Injector reman	
16	5229810R-P	Injector reman	
16	5229895R-P	Injector reman	
16	5229900R-P	Injector reman	
16	5229905R-P	Injector reman	
16	5229620R-P	Injector reman	
16	5229625R-P	Injector reman	
16	5229630R-P	Injector reman	
16	5229870R-B	Injector	9C70, remanufactured
16	5229875R-B	Injector	9C75, remanufactured
16	5229880R-P	Injector reman	
16	5229885R-B	Injector	9C85, remanufactured
16	5229890R-P	Injector reman	
16	5229970R-P	Injector reman	
16	5229975R-P	Injector reman	
16	5226635R-P	Injector reman	
16	8925981-F	Injector tube kit	Copper, pre-reamed with seal
16	5104701-F	Oring injector tube	
1	5199560-F	Fuel pump	LH, standard capacity, 1/4 gear
1	5199735-F	Fuel pump	LH, high capacity, 3/8 gear
1	5150193-F	Gasket fuel pump mtg	
1	5195078-F	Fuel pump kit	Overhaul kit, standard capacity
1	5149599-F	Fuel pump kit	Overhaul kit, high output
1	5102257-F	Fuel pump drive	Drive fork coupling
1	5143616	Coupling fuel pump	[Discontinued] Drive, 21 teeth external
2	23512243-F	Fuel pump kit	Fuel pump seals
12	5117369-F	Fuel connector	Flared style
12	5125108-F	Fuel connector washer	7/16 x 3/4 x 1/16
16	23511850-F	Fuel jumper line	Injector to stand pipe, short, for offset body injectors 2 valve (All 4 valve)

Detroit Diesel 816x-xxxx		16V92 (Continued)	https://www.truckmanualshub.com/ 16 Cylinder Bore 4.840 Stroke 5.000
16	23511851-F	Fuel jumper line	Injector to stand pipe, long, for offset body injectors 2 valve (All 4 valve)
COOLING SYSTEM			
1	5103544-F	Seal ring	Water pump; .139 x 5.109 ID
1	23506871-F	Water pump kit	
4	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
2	681830	Thermostat	180F non-vented [23503825]
4	5132155-F	Thermostat seal	
2	5144277-F	Gasket thermostat	Cover to housing
2	5175989-F	Gasket thermostat	Cover to housing
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
2	8929529-F	Gasket turbo	Mounting gasket, single throat, 4 bolt hole
2	5170466-F	Gasket turbo	
2	5170468-F	Gasket turbo drain	TV turbo
8	5120224-F	Gasket manifold exhaust	ends, metal clad
8	5101138-F	Aftercooler seal	Seal ring, 0.984 x 0.139
MISC			
2	23514202-F	Blower repair kit	Turbo, large bearing 2.441 OD
2	5149645-F	Set blower installation	Turbo and Non turbo
2	23500533-F	Blower seal kit	Blower end plate [(4) 8924453 seal, (4) 5192439 sleeve]
2	5103377-F	Blower drive coupling	Assembly, cam 48T & spring pack style
2	23503682-F	Blower drive coupling	Assembly, cam 29T & spring pack style
2	8923053-F	Blower drive shaft	48 spline, 0.790 diameter x 6.67 length, carbonitride
2	8922634-F	Blower drive shaft	29 spline, 0.790 diameter x 6.67 length
1	5154637-F	Retainer blower drive	
4	5101419-F	Seal blower inlet	Round, 0.139 x 0.734
2	5104978-F	Seal blower inlet	Square cross section
2	23520012-F	Gasket blower mtg	Blower to block
2	5145086-F	Gasket blower mtg	Blower to block, less screen
2	8924266-F	Gasket blower endplate	

Detroit	8V149	https://trackmanualshub.com/
Diesel	8 Cylinder	Bore 5.75
908x-xxxx; 1195 CID, 19.6L		Stroke 5.75

CYLINDER KIT

8	5149527-F	Cylinder kit	16:1, Narrow fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502390 dome, 8928932 ring set) [repl 5149648, 5199885]
8	8924890-F	Cylinder kit	16:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502388 dome, 8926002 ring set) [repl 5149714, 8926907]
8	5149715-F	Cylinder kit	17:1, Narrow fire ring, 1.15 Port ht, Turbo and Natural (23520671 dome, 8928932 ring set) [repl 5149526, 5149647, 5199883, 5199884]
8	5149934-F	Cylinder kit	17:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502672 dome, 8926002 ring set)
	DET149CYL	NOTE Cylinder kit	For any other cylinder kit, order: Piston crown, Cylinder installation kit, Liner, Ring set
8	23502389-F	Piston crown	15:1, Narrow fire ring
8	23502393	Piston crown	15:1, Wide fire ring
8	23502390-F	Piston crown	16:1, Narrow fire ring
8	23502388-F	Piston crown	16:1, Wide fire ring
8	23502671-F	Piston crown	17:1, Narrow fire ring
8	23502672-F	Piston crown	17:1, Wide fire ring
8	23523189-F	Cylinder Installation Kit	DDC 149
Includes the following 8 part numbers			
8	5144912-F	Piston skirt	
8	8924099-F	Seal piston crown	
16	5101198-F	Liner seal ring	
16	23504149-F	Bolt piston pin	
16	5141126-F	Spacer piston pin bolt	
8	8926002-F	Piston pin	
16	5101323-F	Retainer piston pin	
8	8928932-F	Ring set	Narrow fire ring (5148334 top, 5148277 2nd, 5140256 3rd/4th, 8926909 oil) (T & TI: Low sulfur)
8	23501524-F	Ring set	Wide fire ring (8925989 top, 5148277 2nd, 5140256, 3rd/4th, 8926909 oil) (T & TI: High sulfur)
8	23522939-F	Ring set	Natural, Low sulfur
8	23522937-F	Ring set	Natural, High sulfur
8	23502356	Cylinder liner	Standard, 0.85" port height
8	5138135	Cylinder liner	Standard, 1.15" port height
8	5149060	Cylinder liner	0.002 oversize OD, 1.15" port height

BEARINGS

4	5149096-F	Bearing main pair	Std, narrow (1.80") [5101578 upper, 5139910 lower]
	5149109	Bearing main pair	.002, narrow (1.80") [5149098 upper, 5199089 lower]
	5149111-F	Bearing main pair	.010, narrow (1.80") [5149099 upper, 5199091 lower]
	5149113-F	Bearing main pair	.020, narrow (1.80") [5149092 upper, 5199093 lower]
	5149115-F	Bearing main pair	.030, narrow (1.80") [5149094 upper, 5199095 lower]
1	5198615-F	Bearing main thrust pair	Std, wide(2.70") [5139857 upper, 5139858 lower]
	5199108-F	Bearing main thrust pair	.002, wide(2.70") [5199080 upper, 5199081 lower]
	5199110-F	Bearing main thrust pair	.010, wide(2.70") [5199082 upper, 5199083 lower]
	5199112-F	Bearing main thrust pair	.020, wide(2.70") [5199084 upper, 5199085 lower]
	5199114-F	Bearing main thrust pair	.030, wide(2.70") [5199086 upper, 5199087 lower]
4	5138992-F	Thrust washer	Std
	5199248-F	Thrust washer	0.005 oversize
8	5198547-F	Bearing rod pair	Std [5142661 upper, 5142662 lower]
	5199104	Bearing rod pair	.002 [5199096 upper, 5199097 lower]

Detroit Diesel		8V149	https://truckmanualshub.com/
908x-xxxx; 1195 CID, 19.6L		(Continued)	8" Cylinder Bore 5.75 Stroke 5.75
5199105-F	Bearing rod pair	.010 [5199098 upper, 5199099 lower]	
5199106-F	Bearing rod pair	.020 [5199100 upper, 5199101 lower]	
5199107-F	Bearing rod pair	.030 [5199102 upper, 5199103 lower]	
32	5140203-F	Bearing camshaft	
8	23520852-F	Bearing pin slipper	DDC 149
GASKET & SEALS			
1	23516642-F	Set overhaul	With 5149597 head sets,tube and ferrule style; less oil cooler and air inlet blower gaskets
8	5149597-F	Set cylinder head	With 23515231 head gasket, tube and ferrule style
8	23522737-B	Set cylinder head	With 23521814 head gasket, integral seal water and compression std
2	23507345-F	Gasket valve cover	
2	23508779-F	Gasket valve cover	Silicone, grooved
8	8929255-F	Isolator rckr cvr bolt	1.735 OD; One piece rubber
1	23515534-F	Seal crankshaft	Teflon seal with wear sleeve; Front LH / Rear RH rotation
1	23507976-B	Seal crankshaft	Teflon single lip seal; Front LH/ Rear RH rotation
1	23505760-F	Seal crankshaft	Teflon seal with dust lip; Front RH / Rear LH rotation
1	23501875-F	Seal crankshaft rear	Oversize seal for sleeve, RH rotation; use with 5198553 sleeve
For type: 418, 419, 428, 771, 800 Only			
8	5104514-F	Washer rocker cover	
1	5198553-F	Sleeve crankshaft seal	Rear; use with 23501875 seal
1	8925313-F	Gasket oil pan	Upper, Seal ring
1	5117231-F	Gasket oil pan	Oil pan to block, stamped pan
1	5131100-F	Gasket oil pan	Lower pan
1	5125643	Gasket oil pan	Lower pan
	5107453	Gasket oil pan	lower pan
	5125646	Gasket oil pan	
8	8927620-F	Gasket hand hole	Oil pan, single
2	8927619-F	Gasket hand hole	Oil pan, double
CAMSHAFT			
2	9424926-F	Bearing cam gear	{1.7204}
3	9424929-F	Bearing idler gear	{1.7225}
2	5139143-B	Bushing blow er drive	{1.7431}
8	5104015-F	Bolt rocker cover	Rocker cover hold down bolt, 3/8"-16 x 6.57"
8	5139747-F	Shaft rocker arm	With plugs
24	5138643-F	Button rocker arm	Arm adjusting screw {1.8135}
24	8929607-B	Screw rocker arm	Adjusting screw
24	5176830-B	Lock nut rocker arm	Adjusting screw jam nut
8	5138378-F	Roller rocker arm	Injector; roller and 5138376 bushing
8	5138656-F	Pin roller rocker arm	Injector
8	5138644-B	Bushing rocker arm	Injector, large
16	5138651-F	Roller rocker arm	Valve; roller and 5138649 bushing
16	5138513-F	Pin roller rocker arm	Valve Rocker Arm Pin
16	5138370-B	Bushing rocker arm	Valve, large
12	5104243-B	Bridge exhaust valve	

Detroit Diesel		8V149	https://trackmanualshub.com/
908x-xxxx; 1195 CID, 19.6L		(Continued)	8 Cylinder Bore 5.75 Stroke 5.75
12	5151601-F	Push rod nut	5/16 - 24, lock
VALVE TRAIN			
32	8926328-F	Valve exhaust kit	Valve with spring cap and locks; Stellite-faced, head marked 'J6' [8920914 valve, 8925202 cap]
32	8921205-F	Valve exhaust kit	Valve with locks; Stellite-faced, head marked 'J6'
32	8928729-F	Valve exhaust kit	Valve with spring cap and locks; Pyromet 31, head marked 'U' [8926222 valve, 8925202 cap]
32	23505104-F	Valve guide	3.156" OAL
32	23515391-F	Valve guide	2.940" OAL, use with ceramic coated valve
32	5144008-F	Valve stem seal	
32	23523930-F	Valve stem seal	
32	5139982-F	Valve insert	Std
	8924798-B	Valve insert	0.010" oversize
32	23512120-F	Valve spring	[replaces 5144379]
32	8925202-F	Valve spring cap	Yellow dye ID
64	8925203-F	Valve lock	Yellow dye ID
8	5199528-F	Injector tube	Includes 5146359 seal
8	5146539-F	Seal injector tube	1.609 ID, white dot
12	5129101-F	Screw	Adjusting, 5/16 - 24 x1
56	23509593-F	Bolt cylinder head	9/16"-18 x 7.156" [replaces 23509593]
56	5139850-F	Washer cylinder head	
CRANKSHAFT			
2	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	23506511-F	Sleeve damper hub	
CONNECTING ROD			
16	5139552-F	Bolt connecting rod	
16	5139553-F	Nut connecting rod	
COOLING SYSTEM			
	23506704-F	Water pump	LH High capacity
Check type code			
	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
6	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
6	23503827-F	Thermostat	160F
6	5132155-F	Thermostat seal	
2	5141437-F	Gasket thermostat cover	
2	5139501-F	Gasket thermostat housi	
TURBO / AIR			
1	23500485-F	Blower installation kit	
1	23509236-F	Blower repair kit	Rotor bearings, shims, flex drive plate, seals
1	23509313-F	Seal blower end plate	Kit: Contains 4 each: 23506798 seal, 23509000 sleeve
1	5139043-B	Shaft blower drive	Rear, 9.90" length
BLOCK			
8	8927618-F	Gasket block hand hole	Hand hole cover gasket
2	23506132-F	Gasket block water hole	Water hole cover gasket
1	5140157-F	Seal strip	Inter-block
2	5139918-F	Ring seal air box cover	
4	5144035-F	Ring seal air box cover	0.139" x 1.609" ID
2	5139696-F	Ring seal air box cover	
2	5140956	Ring seal air box cover	
1	5143686-F	Gasket inspection hole	Front
1	5145623-F	Gasket governor hole	

Detroit Diesel 912x-xxxx; 1792 CID, 29.4L	12V149 12 Cylinder Bore 5.75 Stroke 5.75	https://truckmanualshub.com/
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CYLINDER KIT

12	5149527-F	Cylinder kit	16:1, Narrow fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502390 dome, 8928932 ring set) [repl 5149648, 5199885]
12	8924890-F	Cylinder kit	16:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502388 dome, 8926002 ring set) [repl 5149714, 8926907]
12	5149715-F	Cylinder kit	17:1, Narrow fire ring, 1.15 Port ht, Turbo and Natural (23520671 dome, 8928932 ring set) [repl 5149526, 5149647, 5199883, 5199884]
12	5149934-F	Cylinder kit	17:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502672 dome, 8926002 ring set)
	DET149CYL	NOTE Cylinder kit	For any other cylinder kit, order: Piston crown, Cylinder installation kit, Liner, Ring set
12	23502389-F	Piston crown	15:1, Narrow fire ring
12	23502393	Piston crown	15:1, Wide fire ring
12	23502390-F	Piston crown	16:1, Narrow fire ring
12	23502388-F	Piston crown	16:1, Wide fire ring
12	23502671-F	Piston crown	17:1, Narrow fire ring
12	23502672-F	Piston crown	17:1, Wide fire ring
12	23523189-F	Cylinder Installation Kit	DDC 149
Includes the following 8 part numbers			
12	5144912-F	Piston skirt	
12	8924099-F	Seal piston crown	
24	5101198-F	Liner seal ring	
24	23504149-F	Bolt piston pin	
24	5141126-F	Spacer piston pin bolt	
12	8926002-F	Piston pin	
24	5101323-F	Retainer piston pin	
12	8928932-F	Ring set	Narrow fire ring (5148334 top, 5148277 2nd, 5140256 3rd/4th, 8926909 oil) (T & TI: Low sulfur)
12	23501524-F	Ring set	Wide fire ring (8925989 top, 5148277 2nd, 5140256, 3rd/4th, 8926909 oil) (T & TI: High sulfur)
12	23522939-F	Ring set	Natural, Low sulfur
12	23522937-F	Ring set	Natural, High sulfur
12	23502356	Cylinder liner	Standard, 0.85" port height
12	5138135	Cylinder liner	Standard, 1.15" port height
12	5149060	Cylinder liner	0.002 oversize OD, 1.15" port height

BEARINGS

6	5149096-F	Bearing main pair	Std, narrow (1.80") [5101578 upper, 5139910 lower]
	5149109	Bearing main pair	.002, narrow (1.80") [5149098 upper, 5199089 lower]
	5149111-F	Bearing main pair	.010, narrow (1.80") [5149099 upper, 5199091 lower]
	5149113-F	Bearing main pair	.020, narrow (1.80") [5149092 upper, 5199093 lower]
	5149115-F	Bearing main pair	.030, narrow (1.80") [5149094 upper, 5199095 lower]
2	5198615-F	Bearing main thrust pair	Std, wide(2.70") [5139857 upper, 5139858 lower]
	5199108-F	Bearing main thrust pair	.002, wide(2.70") [5199080 upper, 5199081 lower]
	5199110-F	Bearing main thrust pair	.010, wide(2.70") [5199082 upper, 5199083 lower]
	5199112-F	Bearing main thrust pair	.020, wide(2.70") [5199084 upper, 5199085 lower]
	5199114-F	Bearing main thrust pair	.030, wide(2.70") [5199086 upper, 5199087 lower]
4	5138992-F	Thrust washer	Std
	5199248-F	Thrust washer	0.005 oversize
12	5198547-F	Bearing rod pair	Std [5142661 upper, 5142662 lower]
	5199104	Bearing rod pair	.002 [5199096 upper, 5199097 lower]

Detroit Diesel		12V149	https://truckmanualshub.com/	
912x-xxxx; 1792 CID, 29.4L		(Continued)	12 Cylinder	Bore 5.75 Stroke 5.75
5199105-F	Bearing rod pair	.010 [5199098 upper, 5199099 lower]		
5199106-F	Bearing rod pair	.020 [5199100 upper, 5199101 lower]		
5199107-F	Bearing rod pair	.030 [5199102 upper, 5199103 lower]		
48	5140203-F	Bearing camshaft		
12	23520852-F	Bearing pin slipper	DDC 149	
GASKET & SEALS				
1	23516494-F	Set overhaul	Less head sets, oil cooler gaskets and air inlet blower gaskets	
1	23516494CO-F	Set overhaul	With 5149597 head sets,tube and ferrule style, with crank seals; less oil cooler and air inlet blower gaskets	
12	5149597-F	Set cylinder head	With 23515231 head gasket, tube and ferrule style	
12	23522737-B	Set cylinder head	With 23521814 head gasket, integral seal water and compression std	
4	23507344-F	Gasket valve cover		
4	23508780-B	Gasket valve cover	Silicone, grooved	
16	8929255-F	Isolator rckr cvr bolt	1.735 OD; One piece rubber	
1	23515534-F	Seal crankshaft	Teflon seal with wear sleeve; Front LH / Rear RH rotation	
1	23507976-B	Seal crankshaft	Teflon single lip seal; Front LH/ Rear RH rotation	
1	23505760-F	Seal crankshaft	Teflon seal with dust lip; Front RH / Rear LH rotation	
1	23501875-F	Seal crankshaft rear	Oversize seal for sleeve, RH rotation; use with 5198553 sleeve	
For type: 418, 419, 428, 771, 800 Only				
16	5104514-F	Washer rocker cover		
1	5198553-F	Sleeve crankshaft seal	Rear; use with 23501875 seal	
1	5141594-F	Gasket oil pan	Upper, Seal ring, 83.60" ID	
4	5117231-F	Gasket oil pan	Oil pan to block, stamped pan	
2	5131100-F	Gasket oil pan	Lower pan	
1	23503588-F	Gasket oil pan	Oil pan to block, stamped pan	
1	5125635-F	Gasket oil pan	Sump to sub pan	
2	5125643	Gasket oil pan	Lower pan	
	5107453	Gasket oil pan	lower pan	
	5125646	Gasket oil pan		
11	8927620-F	Gasket hand hole	Oil pan, single	
3	8927619-F	Gasket hand hole	Oil pan, double	
CAMSHAFT				
2	9424926-F	Bearing cam gear	{1.7204}	
3	9424929-F	Bearing idler gear	{1.7225}	
2	5139143-B	Bushing blow er drive	{1.7431}	
16	5104015-F	Bolt rocker cover	Rocker cover hold down bolt, 3/8"-16 x 6.57"	
12	5139747-F	Shaft rocker arm	With plugs	
36	5138643-F	Button rocker arm	Arm adjusting screw (1.8135}	
36	8929607-B	Screw rocker arm	Adjusting screw	
36	5176830-B	Lock nut rocker arm	Adjusting screw jam nut	
12	5138378-F	Roller rocker arm	Injector; roller and 5138376 bushing	
12	5138656-F	Pin roller rocker arm	Injector	
12	5138644-B	Bushing rocker arm	Injector, large	
24	5138651-F	Roller rocker arm	Valve; roller and 5138649 bushing	

Detroit 12V149		https://truckmanualshub.com/	
Diesel (Continued)		12 Cylinder	
912x-xxxx; 1792 CID, 29.4L		Bore 5.75	Stroke 5.75
24	5138513-F	Pin roller rocker arm	Valve Rocker Arm Pin
24	5138370-B	Bushing rocker arm	Valve, large
24	5104243-B	Bridge exhaust valve	
24	5151601-F	Push rod nut	5/16 - 24, lock
VALVE TRAIN			
48	8926328-F	Valve exhaust kit	Valve with spring cap and locks; Stellite-faced, head marked 'J6' [8920914 valve, 8925202 cap]
48	8921205-F	Valve exhaust kit	Valve with locks; Stellite-faced, head marked 'J6'
48	8928729-F	Valve exhaust kit	Valve with spring cap and locks; Pyromet 31, head marked 'U' [8926222 valve, 8925202 cap]
48	23505104-F	Valve guide	3.156" OAL
48	23515391-F	Valve guide	2.940" OAL, use with ceramic coated valve
48	5144008-F	Valve stem seal	
48	23523930-F	Valve stem seal	
48	5139982-F	Valve insert	Std
	8924798-B	Valve insert	0.010" oversize
48	23512120-F	Valve spring	[replaces 5144379]
48	8925202-F	Valve spring cap	Yellow dye ID
96	8925203-F	Valve lock	Yellow dye ID
12	5199528-F	Injector tube	Includes 5146359 seal
12	5146539-F	Seal injector tube	1.609 ID, white dot
24	5129101-F	Screw	Adjusting, 5/16 - 24 x1
84	23509593-F	Bolt cylinder head	9/16"-18 x 7.156" [replaces 23509593]
84	5139850-F	Washer cylinder head	
CRANKSHAFT			
2	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
1	23506511-F	Sleeve damper hub	
CONNECTING ROD			
24	5139552-F	Bolt connecting rod	
24	5139553-F	Nut connecting rod	
COOLING SYSTEM			
	23506704-F	Water pump	LH High capacity
Check type code			
	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
6	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
6	23503827-F	Thermostat	160F
6	5132155-F	Thermostat seal	
2	5141437-F	Gasket thermostat cover	
2	5139501-F	Gasket thermostat housi	
TURBO / AIR			
2	5199524-F	Blower installation kit	
2	23509236-F	Blower repair kit	Rotor bearings, shims, flex drive plate, seals
2	23509313-F	Seal blower end plate	Kit: Contains 4 each: 23506798 seal, 23509000 sleeve
1	5139233-F	Shaft blower drive	Center, 7.10" length
2	5139232-F	Shaft blower drive	Rear, 8.10" length
BLOCK			
12	8927618-F	Gasket block hand hole	Hand hole cover gasket
6	23506132-F	Gasket block water hole	Water hole cover gasket
1	5140157-F	Seal strip	Inter-block
2	5139918-F	Ring seal air box cover	
4	5144035-F	Ring seal air box cover	0.139" x 1.609" ID

Detroit Diesel		12V149	https://truckmanualshub.com/	
912x-xxxx; 1792 CID, 29.4L		(Continued)	12 Cylinder	
			Bore 5.75	
			Stroke 5.75	
2	5139696-F	Ring seal air box cover		
2	5140956	Ring seal air box cover		
2	5143686-F	Gasket inspection hole	Front	
1	5145623-F	Gasket governor hole		

Detroit	16V149	https://trackmanualshub.com/
Diesel	16 Cylinder	Bore 5.75
916x-xxxx; 2389 CID, 39.2L		Stroke 5.75

CYLINDER KIT

16	5149527-F	Cylinder kit	16:1, Narrow fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502390 dome, 8928932 ring set) [repl 5149648, 5199885]
16	8924890-F	Cylinder kit	16:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502388 dome, 8926002 ring set) [repl 5149714, 8926907]
16	5149715-F	Cylinder kit	17:1, Narrow fire ring, 1.15 Port ht, Turbo and Natural (23520671 dome, 8928932 ring set) [repl 5149526, 5149647, 5199883, 5199884]
16	5149934-F	Cylinder kit	17:1, Wide fire ring, 1.15 Port ht, Turbo and Turbo-Intercooled (23502672 dome, 8926002 ring set)
	DET149CYL	NOTE Cylinder kit	For any other cylinder kit, order: Piston crown, Cylinder installation kit, Liner, Ring set
16	23502389-F	Piston crown	15:1, Narrow fire ring
16	23502393	Piston crown	15:1, Wide fire ring
16	23502390-F	Piston crown	16:1, Narrow fire ring
16	23502388-F	Piston crown	16:1, Wide fire ring
16	23502671-F	Piston crown	17:1, Narrow fire ring
16	23502672-F	Piston crown	17:1, Wide fire ring
16	23523189-F	Cylinder Installation Kit	DDC 149
Includes the following 8 part numbers			
16	5144912-F	Piston skirt	
16	8924099-F	Seal piston crown	
32	5101198-F	Liner seal ring	
32	23504149-F	Bolt piston pin	
32	5141126-F	Spacer piston pin bolt	
16	8926002-F	Piston pin	
32	5101323-F	Retainer piston pin	
16	8928932-F	Ring set	Narrow fire ring (5148334 top, 5148277 2nd, 5140256 3rd/4th, 8926909 oil) (T & TI: Low sulfur)
16	23501524-F	Ring set	Wide fire ring (8925989 top, 5148277 2nd, 5140256, 3rd/4th, 8926909 oil) (T & TI: High sulfur)
16	23522939-F	Ring set	Natural, Low sulfur
16	23522937-F	Ring set	Natural, High sulfur
16	23502356	Cylinder liner	Standard, 0.85" port height
16	5138135	Cylinder liner	Standard, 1.15" port height
16	5149060	Cylinder liner	0.002 oversize OD, 1.15" port height

BEARINGS

8	5149096-F	Bearing main pair	Std, narrow (1.80") [5101578 upper, 5139910 lower]
	5149109	Bearing main pair	.002, narrow (1.80") [5149098 upper, 5199089 lower]
	5149111-F	Bearing main pair	.010, narrow (1.80") [5149099 upper, 5199091 lower]
	5149113-F	Bearing main pair	.020, narrow (1.80") [5149092 upper, 5199093 lower]
	5149115-F	Bearing main pair	.030, narrow (1.80") [5149094 upper, 5199095 lower]
2	5198615-F	Bearing main thrust pair	Std, wide(2.70") [5139857 upper, 5139858 lower]
	5199108-F	Bearing main thrust pair	.002, wide(2.70") [5199080 upper, 5199081 lower]
	5199110-F	Bearing main thrust pair	.010, wide(2.70") [5199082 upper, 5199083 lower]
	5199112-F	Bearing main thrust pair	.020, wide(2.70") [5199084 upper, 5199085 lower]
	5199114-F	Bearing main thrust pair	.030, wide(2.70") [5199086 upper, 5199087 lower]
4	5138992-F	Thrust washer	Std
	5199248-F	Thrust washer	0.005 oversize
16	5198547-F	Bearing rod pair	Std [5142661 upper, 5142662 lower]
	5199104	Bearing rod pair	.002 [5199096 upper, 5199097 lower]

Detroit Diesel		16V149	https://truckmanualshub.com/	
916x-xxxx; 2389 CID, 39.2L		(Continued)	16 Cylinder	Bore 5.75 Stroke 5.75
5199105-F	Bearing rod pair	.010 [5199098 upper, 5199099 lower]		
5199106-F	Bearing rod pair	.020 [5199100 upper, 5199101 lower]		
5199107-F	Bearing rod pair	.030 [5199102 upper, 5199103 lower]		
64	5140203-F	Bearing camshaft		
16	23520852-F	Bearing pin slipper	DDC 149	
GASKET & SEALS				
1	23516493-F	Set overhaul	Less head sets, oil cooler gaskets and air inlet blower gaskets	
1	23516493CO-F	Set overhaul	With 5149597 head sets,tube and ferrule style, with crank seals; less oil cooler and air inlet blower gaskets	
16	5149597-F	Set cylinder head	With 23515231 head gasket, tube and ferrule style	
16	23522737-B	Set cylinder head	With 23521814 head gasket, integral seal water and compression std	
4	23507345-F	Gasket valve cover		
4	23508779-F	Gasket valve cover	Silicone, grooved	
16	8929255-F	Isolator rckr cvr bolt	1.735 OD; One piece rubber	
1	23515534-F	Seal crankshaft	Teflon seal with wear sleeve; Front LH / Rear RH rotation	
1	23507976-B	Seal crankshaft	Teflon single lip seal; Front LH/ Rear RH rotation	
1	23505760-F	Seal crankshaft	Teflon seal with dust lip; Front RH / Rear LH rotation	
1	23501875-F	Seal crankshaft rear	Oversize seal for sleeve, RH rotation; use with 5198553 sleeve	
For type: 418, 419, 428, 771, 800 Only				
16	5104514-F	Washer rocker cover		
1	5198553-F	Sleeve crankshaft seal	Rear; use with 23501875 seal	
1	23515447-F	Gasket oil pan	Upper, between pans [replaces 5140853]	
1	5141595-F	Gasket oil pan	Upper, Seal ring, 100.60" ID	
4	5117231-F	Gasket oil pan	Oil pan to block, stamped pan	
4	5125643	Gasket oil pan	Lower pan	
	5107453	Gasket oil pan	lower pan	
	5125646	Gasket oil pan		
12	8927620-F	Gasket hand hole	Oil pan, single	
4	8927619-F	Gasket hand hole	Oil pan, double	
CAMSHAFT				
2	9424926-F	Bearing cam gear	{1.7204}	
3	9424929-F	Bearing idler gear	{1.7225}	
2	5139143-B	Bushing blow er drive	{1.7431}	
16	5104015-F	Bolt rocker cover	Rocker cover hold down bolt, 3/8"-16 x 6.57"	
16	5139747-F	Shaft rocker arm	With plugs	
48	5138643-F	Button rocker arm	Arm adjusting screw (1.8135}	
48	8929607-B	Screw rocker arm	Adjusting screw	
48	5176830-B	Lock nut rocker arm	Adjusting screw jam nut	
16	5138378-F	Roller rocker arm	Injector; roller and 5138376 bushing	
16	5138656-F	Pin roller rocker arm	Injector	
16	5138644-B	Bushing rocker arm	Injector, large	
32	5138651-F	Roller rocker arm	Valve; roller and 5138649 bushing	
32	5138513-F	Pin roller rocker arm	Valve Rocker Arm Pin	
32	5138370-B	Bushing rocker arm	Valve, large	

Detroit 16V149		https://truckmanualshub.com/	
Diesel (Continued)		16 Cylinder	
916x-xxxx; 2389 CID, 39.2L		Bore 5.75 Stroke 5.75	
32	5104243-B	Bridge exhaust valve	
32	5151601-F	Push rod nut	5/16 - 24, lock
VALVE TRAIN			
96	8926328-F	Valve exhaust kit	Valve with spring cap and locks; Stellite-faced, head marked 'J6' [8920914 valve, 8925202 cap]
96	8921205-F	Valve exhaust kit	Valve with locks; Stellite-faced, head marked 'J6'
96	8928729-F	Valve exhaust kit	Valve with spring cap and locks; Pyromet 31, head marked 'U' [8926222 valve, 8925202 cap]
96	23505104-F	Valve guide	3.156" OAL
96	23515391-F	Valve guide	2.940" OAL, use with ceramic coated valve
96	5144008-F	Valve stem seal	
96	23523930-F	Valve stem seal	
96	5139982-F	Valve insert	Std
	8924798-B	Valve insert	0.010" oversize
96	23512120-F	Valve spring	[replaces 5144379]
96	8925202-F	Valve spring cap	Yellow dye ID
192	8925203-F	Valve lock	Yellow dye ID
16	5199528-F	Injector tube	Includes 5146359 seal
16	5146539-F	Seal injector tube	1.609 ID, white dot
32	5129101-F	Screw	Adjusting, 5/16 - 24 x1
112	23509593-F	Bolt cylinder head	9/16"-18 x 7.156" [replaces 23509593]
112	5139850-F	Washer cylinder head	
CRANKSHAFT			
2	8922492-F	Damper vibration	Viscous heavy, 12.3 OD
2	5107312-F	Damper crankshaft	18-inch diameter
1	23506511-F	Sleeve damper hub	
CONNECTING ROD			
32	5139552-F	Bolt connecting rod	
32	5139553-F	Nut connecting rod	
COOLING SYSTEM			
	23506704-F	Water pump	LH High capacity
Check type code			
	23506870-F	Water pump kit	Repair kit, high capacity, ceramic seal seat
6	23503826-F	Thermostat	170F, use with seal, Weir type [type 2] [marked 613070]
6	23503827-F	Thermostat	160F
6	5132155-F	Thermostat seal	
2	5141437-F	Gasket thermostat cover	
2	5139501-F	Gasket thermostat housi	
TURBO / AIR			
2	23500485-F	Blower installation kit	
2	5199526-F	Blower installation kit	
2	23509236-F	Blower repair kit	Rotor bearings, shims, flex drive plate, seals
2	23509313-F	Seal blower end plate	Kit: Contains 4 each: 23506798 seal, 23509000 sleeve
2	5139043-B	Shaft blower drive	Rear, 9.90" length
BLOCK			
	5107182-F	Counterbore seal	Seal ring cylinder head, counterbored block repair
16	8927618-F	Gasket block hand hole	Hand hole cover gasket
6	23506132-F	Gasket block water hole	Water hole cover gasket
1	5140157-F	Seal strip	Inter-block
2	5139918-F	Ring seal air box cover	
4	5144035-F	Ring seal air box cover	0.139" x 1.609" ID

Detroit Diesel		16V149	https://truckmanualshub.com/	
916x-xxxx; 2389 CID, 39.2L		(Continued)	16 Cylinder	
			Bore 5.75	
			Stroke 5.75	
2	5139696-F	Ring seal air box cover		
2	5140956	Ring seal air box cover		
2	5143686-F	Gasket inspection hole	Front	
1	5145623-F	Gasket governor hole		

Detroit 6.7L - 40 Series		https://trackmanualshub.com/	
Diesel		6 Cylinder	
Codes: 12NEA, 12NEB, 12NEC, 12NED		Bore 4.301	
		Stroke 4.68	
CYLINDER KIT			
6	1817247-F	Ring set	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone
6	1818552-F	Piston pin	1.8250 diameter
12	1818702-F	Retainer piston pin	[1818702C1]
6	1815674-F	Cylinder liner	without seal rings
6	1822322-F	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000-F	Cylinder liner oring	Crevice seal [1817000C2]
6	1817633-F	Cylinder liner oring	Oring [1817633C2]
BEARINGS			
6	1822321-F	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490-F	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491-F	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492-F	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379-F	Bearing thrust pair	Std, position 7; RH tang location [Some ReNEWed engines use MY2000 blocks, requiring MY2000 and Up thrust bearing]
	1822494-F	Bearing thrust pair	.010, position 7
	1822495-F	Bearing thrust pair	.020, position 7
	1822496-F	Bearing thrust pair	.030, position 7
6	1822389-F	Bearing rod pair	Std
6	1822486-F	Bearing rod pair	.010 u/s
6	1822487-F	Bearing rod pair	.020 u/s
6	1822488-B	Bearing rod pair	.030 u/s
6	1818598-F	Bushing con rod	
1	7680117	Bearing cam set	[680117C1]
GASKET & SEALS			
1	431251	Set upper	[1822328C94]
1	431275	Set lower	Does not include crankshaft seals or pan gasket [1830374C93]
1	1817562-F	Gasket cylinder head	
1	1817510-B	Gasket valve cover	
1	431252	Gasket oil pan	[1826587C1]
1	1816722-F	Gasket oil sump	
1	7690437	Seal crankshaft front	[690437C94]
1	1817867-F	Seal crankshaft rear	
1	1816569-F	Sleeve crank seal	Rear: Use with 1819733 teflon seal
CAMSHAFT			
1	1820850C93	Camshaft	with gear; Call for price and availability for remanufactured
12	1809570	Lifter	[Discontinued] Roller type
VALVE TRAIN			
	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
1	HKNAV466PE	Cylinder head kit	engine sn to 956463; 5/16 valve stem diameter
6	01899	Valve intake	1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove [1818580C1]
6	01900S	Valve exhaust	1.600 head dia, 5.790 length, 0.3112 stem dia, 45 degree, 1 groove [1824838C1, 1818579C1]
12	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944-F	Valve lock	for .3125 (5/16) valve stem diameter
12	1820826C91	Rotocap	
12	1819380C1-B	Seal rotator	
12	122-1300	Valve stem seal	use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]
1	HKNAV466PL	Cylinder head kit	engine sn from 956464; 3/8 valve stem diameter
6	01943	Valve intake	1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide	0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]
24	121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]

Detroit Diesel		6.7L - 40 Series	https://trackmanualshub.com/
Codes: 12NEA, 12NEB, 12NEC, 12NED		(Continued)	6 Cylinders
			Bore 4.301
			Stroke 4.68
12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683-F	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height [677349C1]
Intake			
6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height [1825540C1]
Exhaust			
6	675043-F	Valve insert	Intake
6	675450-F	Valve insert	Exhaust
6	675442-F	Injector sleeve	Copper [675442C1]
OIL / LUBE SYSTEM			
1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler, 0.21 thick; adapter oring [1807563C1]
2	421227	Oring	Oil cooler, 0.31 thick [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]
FUEL / INJECTOR			
	INJECTOR	Injector	New or remanufactured available, call for pricing
6	675477-F	Injector washer	Copper sealing washer [675477C1]
6	682810-F	Injector sleeve seal	Seal [682810C1]
COOLING SYSTEM			
1	1817687C92-G	Water pump	7-bolt, new, stamped steel impeller, cast 1821935C1 or 1821935C3 [1817687C92, 1820300C1; 1830606C94 pump and seal]
1	421205	Oring water pump	[1819099C1]
1	481832	Thermostat	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
1	421215	Oring thermostat	[1820951C1]
1	480890	Tensioner belt	[1830033C1] [repl 1814719C1]
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	1822120-F	Gasket turbo mtg	[1822120C1]
1	253660-F	Gasket turbo oil	Oil inlet
BLOCK			
1	431267	Set front cover	Includes: 431260, 431259, 431262, 431253, 431258, 131294, 421221, 421224, 421225, 421205, 421273 [1822365C98]

Detroit 7.6L - 40 Series		https://trackmanualshub.com/	
Diesel		6" Cylinder	
Codes: 12NEE, 12NEG, 12NEH, 12NEJ, 12NEK		Bore 4.3005	
		Stroke 5.35	
ENGINE KITS			
1	IH-DT466P-E-IF	Inframe kit	PLN [1822340 cylinder kit, 1822097 piston] [OE# 1830063C94]
esn 850654 to 888340: ALL torque and ALL horsepower engines			
1	IH-DT466P-L-IF	Inframe kit	PLN, 16.7:1 CR [1824823 cylinder kit, 1824810 piston] [OE# 1824824C99]
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
1	466104-001	InFrame kit	PLN; [1824820C92 cylinder kit (401014), 1823930C1 Piston (410022)] [OE# 1824821C98]
esn 888341 and above: 230 HT and all 250HP			
CYLINDER KIT			
6	1822340-F	Cylinder kit	[1822097 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit] (repl 1822329C94 in sets)
esn 850654 to 888340; contains piston for all HP; can replace 1822329 cylinder kit			
6	1822097-F	Piston body	2 keystone rings, tapered skirt, 2.519" bowl diameter [1822097C2, 1822097C1]
esn 850654 to 888340			
6	1817247-F	Ring set	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone
esn 850654 to 888340			
6	1824823-F	Cylinder kit	[1824810 piston, 1825461 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
6	1824810-F	Piston body	1 keystone ring, barrel skirt, 2.580" bowl diameter [1824810C1]
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
6	1825461-F	Ring set	Top compression ring keystone
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
6	1824820-F	Cylinder kit	[1823930 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit] [1824820C92]
esn 888341 and above: 230 HT and all 250HP			
6	1823930-F	Piston	2 keystone rings, barrel skirt, 2.580" bowl diameter [1820930C1]
esn 888341 and above: 230 HT and all 250HP			
6	1818552-F	Piston pin	1.8250 diameter
12	1818702-F	Retainer piston pin	[1818702C1]
6	1815674-F	Cylinder liner	without seal rings
6	1822322-F	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000-F	Cylinder liner oring	Crevice seal [1817000C2]
6	1817633-F	Cylinder liner oring	Oring [1817633C2]
BEARINGS			
6	1822321-F	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490-F	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491-F	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492-F	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379-F	Bearing thrust pair	Std, position 7; RH tang location [Some ReNEWed engines use MY2000 blocks, requiring MY2000 and Up thrust bearing]
	1822494-F	Bearing thrust pair	.010, position 7
	1822495-F	Bearing thrust pair	.020, position 7
	1822496-F	Bearing thrust pair	.030, position 7
6	1822389-F	Bearing rod pair	Std
6	1822486-F	Bearing rod pair	.010 u/s
6	1822487-F	Bearing rod pair	.020 u/s
6	1822488-B	Bearing rod pair	.030 u/s
6	1818598-F	Bushing con rod	
1	7680117	Bearing cam set	[680117C1]
GASKET & SEALS			
1	PGN466NGDIF-F	Set inframe	Also order: 1816722 pickup tube gasket; Does not include valve stem seals

Detroit Diesel		7.6L - 40 Series	https://trackmanualshub.com/
Codes: 12NEE, 12NEG, 12NEH, 12NEJ, 12NEK		(Continued)	6" Cylinder Bore 4.3005 Stroke 5.35
1	431251	Set upper	[1822328C94]
1	431275	Set lower	Does not include crankshaft seals or pan gasket [1830374C93]
1	1817562-F	Gasket cylinder head	
1	1817510-B	Gasket valve cover	
1	431252	Gasket oil pan	[1826587C1]
1	1816722-F	Gasket oil sump	
1	7690437	Seal crankshaft front	[690437C94]
1	1817867-F	Seal crankshaft rear	
CAMSHAFT			
1	1820850C93	Camshaft	with gear; Call for price and availability for remanufactured
12	1809570	Lifter	[Discontinued] Roller type
VALVE TRAIN			
1	22-DT466C	Cylinder head	Remanufactured complete; specify 5/16 or 3/8 valve stem [5/16: assy 1822368C91, cast 1818504C1; 3/8: assy 1824639C92, cast 1822363C1, 1824641]
1	HKNAV466PE	Cylinder head kit	engine sn to 956463; 5/16 valve stem diameter
Following parts for esn to 956463			
6	01899	Valve intake	1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove [1818580C1]
6	01900S	Valve exhaust	1.600 head dia, 5.790 length, 0.3112 stem dia, 45 degree, 1 groove [1824838C1, 1818579C1]
12	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944-F	Valve lock	for .3125 (5/16) valve stem diameter
12	1820826C91	Rotocap	
12	1819380C1-B	Seal rotator	
12	122-1300	Valve stem seal	use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]
1	HKNAV466PL	Cylinder head kit	engine sn from 956464; 3/8 valve stem diameter
Following parts for esn 956464 & up			
6	01943	Valve intake	1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide	0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]
24	121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683-F	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height [677349C1]
Intake			
6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height [1825540C1]
Exhaust			
6	675043-F	Valve insert	Intake
6	675450-F	Valve insert	Exhaust
6	675442-F	Injector sleeve	Copper [675442C1]
CONNECTING ROD			
12	71840363	Bolt conn rod	OD .465", use with rod cast 1841615C91, 1830153C92, 1841634C91
OIL / LUBE SYSTEM			
1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler, 0.21 thick; adapter oring [1807563C1]
2	421227	Oring	Oil cooler, 0.31 thick [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]

Detroit Diesel		7.6L - 40 Series (Continued)	https://trackmanualshub.com/
Codes: 12NEE, 12NEG, 12NEH, 12NEJ, 12NEK		6 Cylinders	Bore 4.3005 Stroke 5.35
FUEL / INJECTOR			
INJECTOR		Injector	New or remanufactured available, call for pricing
6	1820834C91R-P	Injector reman	Code B
esn to 874582: 195HP, 210HP			
6	1820838C91R-P	Injector reman	Code D, F
esn to 888340: 230HP, 250HP			
6	1820844C91R-P	Injector reman	Code G
esn to 888340: 275HP			
6	1823757C91R-P	Injector reman	Code AB
esn 888341 & up: 175HP, 190HP			
6	1823761C91R-P	Injector reman	Code AD
esn 888341 & up: 195HP, 210HP			
6	1823763C91R-P	Injector reman	Code AE
esn 888341 & up: 230HP, 250HP			
6	1823765C91	Injector reman	Code AF
esn 88341 & up: 275HP			
6	1823759C91R-P	Injector reman	Code AC
Engine Code 12NGC: 210HP; Engine Code 12NGD: 230HP			
6	675477-F	Injector washer	Copper sealing washer [675477C1]
6	682810-F	Injector sleeve seal	Seal [682810C1]
COOLING SYSTEM			
1	1817687C92-G	Water pump	7-bolt, new, stamped steel impeller, cast 1821935C1 or 1821935C3 [1817687C92, 1820300C1; 1830606C94 pump and seal]
1	421205	Oring water pump	[1819099C1]
1	481832	Thermostat	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
1	421215	Oring thermostat	[1820951C1]
1	480890	Tensioner belt	[1830033C1] [repl 1814719C1]
TURBO / AIR			
TURBO		TURBOCHARGER	New or remanufactured available, call for pricing
BLOCK			
1	431267	Set front cover	Includes: 431260, 431259, 431262, 431253, 431258, 131294, 421221, 421224, 421225, 421205, 421273 [1822365C98]

Detroit 8.7L - 40 Series		https://trackmanualshub.com/	
Diesel		6 Cylinder	
Codes: 12NEL, 12NEM, 12NEN, 12NEP, 12NER		Bore 4.5866	
		Stroke 5.350	
CYLINDER KIT			
6	1818552-F	Piston pin	1.8250 diameter
12	1818702-F	Retainer piston pin	[1818702C1]
6	400025	Cylinder liner	Includes: 400003 liner, 421213 seal [1842553C91]
6	400003	Cylinder liner	4.587 bore, single oring [1841326C1, repl 1830706C1 and 1815648C1]
6	1822322-F	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000-F	Cylinder liner oring	Crevice seal [1817000C2]
6	1817633-F	Cylinder liner oring	Oring [1817633C2]
BEARINGS			
6	1822321-F	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490-F	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491-F	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492-F	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379-F	Bearing thrust pair	Std, position 7; RH tang location [Some ReNEWed engines use MY2000 blocks, requiring MY2000 and Up thrust bearing]
	1822494-F	Bearing thrust pair	.010, position 7
	1822495-F	Bearing thrust pair	.020, position 7
	1822496-F	Bearing thrust pair	.030, position 7
6	1822389-F	Bearing rod pair	Std
6	1822486-F	Bearing rod pair	.010 u/s
6	1822487-F	Bearing rod pair	.020 u/s
6	1822488-B	Bearing rod pair	.030 u/s
6	1818598-F	Bushing con rod	
1	7680117	Bearing cam set	[680117C1]
GASKET & SEALS			
1	431251	Set upper	[1822328C94]
1	431275	Set lower	Does not include crankshaft seals or pan gasket [1830374C93]
1	1817510-B	Gasket valve cover	
1	1822577-F	Gasket fuel manifold	
1	431252	Gasket oil pan	[1826587C1]
1	1816722-F	Gasket oil sump	
1	7690437	Seal crankshaft front	[690437C94]
1	1817867-F	Seal crankshaft rear	
CAMSHAFT			
12	1809570	Lifter	[Discontinued] Roller type
VALVE TRAIN			
	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
1	HKNAV466PE	Cylinder head kit	engine sn to 956463; 5/16 valve stem diameter
Following parts for esn to 956463			
6	01899	Valve intake	1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove [1818580C1]
6	01900S	Valve exhaust	1.600 head dia, 5.790 length, 0.3112 stem dia, 45 degree, 1 groove [1824838C1, 1818579C1]
12	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944-F	Valve lock	for .3125 (5/16) valve stem diameter
12	1820826C91	Rotocap	
12	1819380C1-B	Seal rotator	
12	122-1300	Valve stem seal	use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]
1	HKNAV466PL	Cylinder head kit	engine sn from 956464; 3/8 valve stem diameter
Following parts for esn 956464 & up			
6	01943	Valve intake	1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide	0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]
24	121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]

Detroit Diesel		8.7L - 40 Series	https://trackmanualshub.com/
Codes: 12NEL, 12NEM, 12NEN, 12NEP, 12NER		(Continued)	6 Cylinders
			Bore 4.5866
			Stroke 5.350
12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683-F	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height [677349C1]
Intake			
6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height [1825540C1]
Exhaust			
6	675043-F	Valve insert	Intake
6	675450-F	Valve insert	Exhaust
6	675442-F	Injector sleeve	Copper [675442C1]
OIL / LUBE SYSTEM			
1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler, 0.21 thick; adapter oring [1807563C1]
2	421227	Oring	Oil cooler, 0.31 thick [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]
FUEL / INJECTOR			
	INJECTOR	Injector	New or remanufactured available, call for pricing
6	675477-F	Injector washer	Copper sealing washer [675477C1]
6	682810-F	Injector sleeve seal	Seal [682810C1]
COOLING SYSTEM			
1	1817687C92-G	Water pump	7-bolt, new, stamped steel impeller, cast 1821935C1 or 1821935C3 [1817687C92, 1820300C1; 1830606C94 pump and seal]
1	421205	Oring water pump	[1819099C1]
1	481832	Thermostat	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
1	421215	Oring thermostat	[1820951C1]
1	480890	Tensioner belt	[1830033C1] [repl 1814719C1]
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing

Detroit 8.5L - 50 Series		4 Cylinder	
Diesel		Bore 130mm	
6043/6047: 518 CID		Stroke 160mm	
ENGINE KITS			
1	IFKS50TLC-F	Inframe kit	TLC liner, crosshead pistons ; select cylinder kit: 23532555, 23532556, 23532557, 23532558; LESS valve cover gasket, valve stem seals
1	IFK-S50SPREM-F	Inframe kit	Articulated pistons; select cylinder kit: 23532554, 23532561; LESS valve cover gasket, valve stem seals
CYLINDER KIT			
4	23532590-F	Cylinder kit	STD liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23519625) [23519624 piston kit, 23532468 liner kit, 23503747 rings]
Pre 1991			
4	23532591-F	Cylinder kit	STD liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23519637) [23519635 piston kit, 23532468 liner kit, 23505729 rings]
Pre 1991			
4	23532555-F	Cylinder kit	TLC liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23523951) [23519624 piston kit, 23531249 liner kit, 23503747 rings]
GK, GT, GU, TK: Under 470HP; Do not use in engines above sn 6R0408505			
4	23532556-F	Cylinder kit	TLC liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23532952) [23519635 piston kit, 23531249 liner kit, 23505729 rings]
Do not use in engines above sn 6R0408505			
4	23532557-F	Cylinder kit	TLC liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23523954) [23519646 piston kit, 23531249 liner kit, 23503747 rings]
GK: 470 to 500 HP; Do not use in engines above sn 6R0408505			
4	23532558-F	Cylinder kit	TLC liner, 2.50mm top ring, 16.5:1 CR, large OD dome (repl 23524602) [23524601 piston kit, 23531249 liner kit, 23503747 rings]
Do not use in engines above sn 6R0408505			
4	123532562	Cylinder kit	Steel crown articulated 16.5:1, 2.5mm top ring, heavy pin 22mm (0.866") ID (125622885 crown and skirt, 123503747 rings [23532562; 23530602 piston assy, 23530668 piston kit])
OE# uses 3.0mm top ring			
4	123532561	Cylinder kit	Steel crown articulated 15.0:1, 2.5mm top ring, heavy pin 22mm (0.866") ID (125612883 crown and skirt, 123503747 rings [23532561; 23530600 piston assy, 23530666 piston kit])
4	23519624-F	Piston kit	5.118 bore, 2.50mm top ring, 15:1 CR, large OD dome [23529667 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]
4	23519635-F	Piston kit	5.118 bore, 3.50mm top ring, 15:1 CR, large OD dome [23519734 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]
4	23519646-F	Piston kit	5.118 bore, 2.50mm top ring, 15:1 CR, large OD dome [23518681 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]
4	23524601-F	Piston kit	5.118 bore, 2.50mm top ring, 16.5:1 CR, large OD dome
4	23530668-F	Piston kit	Steel crown, 16.5:1 CR, heavy pin, 2.5mm top ring (23530602 piston assy, 23530727 crown, 23521802 skirt, 23525168 pin, 23521781 retainers [repl 23529167, 23524597])
4	23530666-F	Piston kit	Steel crown, 15:1 CR, heavy pin, 2.5mm top ring (23530600 piston assy, 23530599 crown, 23521802 skirt, 23525168 pin, 23521781 retainers)
4	23516681-F	Piston skirt	Ductile iron for standard cross head piston
4	23521802-F	Piston skirt	Aluminum skirt for forged steel crown articulated piston
4	23519723H-F	Bearing piston pin	Use with OEM and FPD style pistons; Set[(1) 23504942H top bushing, (2) 23519558 ear bushings] Has a hole drilled to fit the retaining pin on FPD pistons

Detroit Diesel 6043/6047: 518 CID		8.5L - 50 Series (Continued)	4 Cylinder Bore 130mm Stroke 160mm
4	23519723-F	Bearing piston pin	Use only with OEM style pistons; Set [(1) 23504942 top bushing, (2) 23519558 ear bushings]
4	8929087-F	Piston pin	For cross-head style piston, bolted to connecting rod [8929087]
4	23525168-F	Piston pin	For articulated steel piston, 22mm ID, heavy pin
8	23521781-F	Retainer piston pin	For articulated steel piston
8	8929337-F	Piston pin bolt	
8	8929504-F	Piston pin bolt spacer	
4	123528493	Piston cooling nozzle	[23528493]
4	123506222	Bolt cooling nozzle	For 23528493 nozzle or plate [23506222]
4	23503747-F	Ring set	130mm (5.118") bore, 2.50mm top ring, keystone compression rings, 1 cyl set [23503747; 8929844 top, 8929845 2nd, 23515500 oil; replaces 23525553, 23501575]
4	23505729-F	Ring set	130mm (5.118") bore, 3.50mm top ring, keystone compression rings, 1 cyl set [23504941 top, 8929845 2nd, 2351500 oil]
4	8929844-F	Ring single	5.118 bore, compression, top 2.50mm
4	23504941-F	Ring single	5.118 bore, compression, top 3.50mm
4	8929845-F	Ring single	5.118 bore, compression, 2nd groove
4	23515500-F	Ring single	5.118 bore, oil control with expander
4	23529379-F	Ring single	5.118 bore, oil ring expander
4	23532468-F	Cylinder liner	130mm (5.118") bore, Liner and seals, Std non TLC (23532361 liner, 892903 crevice seal, 8929176 D ring seal) [repl 23505278]
4	23532361-F	Cylinder liner	130mm (5.118") bore, Liner only, Std non TLC, liner only [repl 8929442]
4	123531249	Cylinder liner kit	130mm (5.118") bore, Liner and seals, TLC (123530226 liner, 18929013 crevice seal, (2) 18929176 D ring seal) [23531249; replaces 23523948, 23514285]
4	23530226-F	Cylinder liner	[Not available seperatly, order 23531249] 130mm (5.118") bore, Liner only, TLC [replaces 23523392]
4	18929013	Cylinder liner oring	Crevice seal, black [8929013]
8	18929176	Cylinder liner seal	D-ring, blue [8929176]
4	23525500-F	Insert counterbore	Upper counterbore repair
	20044-F	Shim counterbore	Flange shim, block counterbore 0.031"
	20045-F	Shim counterbore	Flange shim, block counterbore 0.062"
	S60.030 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060" stainless steel
	S60.060 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060" stainless steel
4	20042-F	Lower Block Bore Sleev	
BEARINGS			
4	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
	18929673	Bearing main pair	0.762mm (0.030") [8929673 pair; (1) 23533249 lower, (1) 23533256 upper]
1	18929680	Bearing thrust pair	Std, flanged [8929680 pair; (1) 23533252 / 8929082 lower, (1) 23533263 / 8929083 upper]
	18929681	Bearing thrust pair	0.254mm (0.010"), flanged [8929681 pair; (1) 23533251 lower, (1) 23533262 upper]
	18929682	Bearing thrust pair	0.508mm (0.020"), flanged [8929682 pair; (1) 23533250 lower, (1) 23533261 upper]

Detroit Diesel 6043/6047: 518 CID		8.5L - 50 Series (Continued)	4 Cylinder Bore 130mm Stroke 160mm
18929683	Bearing thrust pair	0.762mm (0.030"), flanged [8929683 pair; (1) 23533249 lower, (1) 8929688 upper]	
1	8929085S-F	Thrust washer set	Position upper; contains (2) 8929085
2	18929085	Thrust washer	Std, single
2	18929697	Thrust washer	0.127mm (0.005"), single
2	18929698	Thrust washer	0.254mm (0.010"), single
4	18929710	Bearing rod pair	Std, 43.43mm (1.7100") OAL (former style) [8929553 upper, 8929554 lower]
	8929711-F	Bearing rod pair	0.254mm (0.010"), 1.7100 or 43.43mm OAL (former style) [8929714 upper, 8929715 lower]
	8929712-F	Bearing rod pair	0.508mm (0.020"), 1.7100 or 43.43mm OAL (former style) [8929716 upper, 8929717 lower]
	8929713-F	Bearing rod pair	0.762mm, (0.030") 1.7100 or 43.43mm OAL (former style) [8929718 upper, 8929719 lower]
4	123515581	Bearing rod pair	Std, Used with cross-head piston, bolt on conn rods, 47.43mm (1.8670") OAL, grooved upper half [23515581 pair; 23515586 upper, 23515585 lower]
	123515582	Bearing rod pair	0.254mm (0.010"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515582 pair; 23515588 upper, 23515587 lower]
	123515583	Bearing rod pair	0.508mm (0.020"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515583 pair; 23515590 upper, 23515589 lower]
	123515584	Bearing rod pair	0.762mm (0.030"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515584 pair; 23515592 upper, 23515591 lower]
4	123526142	Bearing rod pair	Std, Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no grv [23526142 pair, 23535745 / 23526079 half]
Use with closed end connecting rods			
	123527065	Bearing rod pair	0.254mm (.010") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove [23527065 pair, 23527062 half]
	123527066	Bearing rod pair	0.508mm (.020") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove [23527066 pair, 23527063 half]
	123527067	Bearing rod pair	0.762mm (.030") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove [23527067 pair, 23527064 half]
5	18929690	Bearing cam	Std, pair [8929690]
	8929691-F	Bearing cam	0.254mm (0.010"), pair
	8929692-F	Bearing cam	0.508mm (0.020"), pair
	8929693-F	Bearing cam	0.762mm (0.030"), pair
4	MCB7133-B	Bushing con rod	For closed end drilled rod only
Model year 1998 and newer			
GASKET & SEALS			
1	123532329	Set overhaul	Does not include: Valve cover gasket, pan gasket, crankshaft seals [23532329; replaces 23512691]
1	123532330	Set cylinder head	must use with new style bolts (LESS valve stem seals) [23532330]

Detroit Diesel		8.5L - 50 Series	4 Cylinder
		(Continued)	Bore 130mm
6043/6047: 518 CID			Stroke 160mm
1	23526853	Set cylinder head	PDM: repl 23526275
	G1	UPPER GASKETS	
1	23531306-F	Gasket cylinder head	
1	23511772-F	Gasket valve cover	
Built prior to May 28, 1999			
1	23516531-F	Gasket valve cover	Lower; rocker housing to head
Built after May 28, 1999			
8	23517911-F	Isolator rckr cvr bolt	One piece rubber with metal washer [replaces 8929559 isolator and 8929560 washer]
For 2-pc cover only; 1996 - May 28, 1999			
	G5	PAN GASKETS	
1	123511580	Gasket oil pan	[23511580]
	G3	CRANK SEALS	
1	123518355	Seal crankshaft front	Seal and sleeve [23518355, replaces 23513485]
1	8923655-F	Sleeve crankshaft front	Used with early seal: 23509591, 23501545
1	123516969	Seal crankshaft rear	Seal and sleeve, dry housing, single lip, teflon [23516969, contains 23501544 seal; replaces 23513577]
1	23513578-F	Seal crankshaft rear	Seal and sleeve, wet housing, double lip wrap around
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
	23501544-F	Seal crankshaft rear	Teflon, O/S, RH rotation (5.312 shaft, 6.513 OD, .500 width)
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
CAMSHAFT			
5	8929129-B	Bolt cam journal cap	M12 x 1.75 x 65
4	8929587-B	Bolt cam journal cap	M12 x 1.75 x 110.0
2	23500708-B	Nut cam journal cap	M12 x 1.75
1	123521935	Seal ring	Cam thrust plate to cylinder head, 2 bolt [23521935; replaces 23517334]
1	23521894-F	Seal ring	Cam thrust plate to cylinder head, 3 bolt {1.7075}
1	23528491-F	Seal ring	Cam thrust plate to gear housing, perimeter seal (repl 8929318) {1.7075}
2	8929740-F	Seal ring	Cam bearing cap to cylinder head; .134 x .074 x .480 {1.3156, 1.7042, 1.8160}
2	23522975-F	Seal ring	Cam bearing cap to cylinder head, racetrack {1.7042, 1.8160}
8	23520819-F	Adjusting screw	Exhaust valve adjusting {1.8135}
8	23520818-F	Adjusting screw	Intake valve adjusting {1.8135}
4	23520820-F	Adjusting screw	Injector adjusting {1.8135}
20	23514371-F	Nut rocker arm	Arm adjusting screw; 3/8 - 24 {1.8135}
20	5138643-F	Button rocker arm	Arm adjusting screw (1.8135)
1	5103646-F	Breather Seal Ring	Seal DC rocker cover breather {1.8450, 4.8057}
VALVE TRAIN			
8	23501576-B	Valve intake kit	Includes 23529629 valve, valve seal, keeper, rotocap
8	123529629	Valve intake	1.7320 head dia, 0.3421" stem dia, 8.4980 length, 30 degree [23529629, 8929589]
8	23529004-F	Valve intake	(repl 23525180)
8	123507504	Valve exhaust kit	Identification H; MY 1991-2001 (Pre EGR) Includes 123524521 valve, valve seal, keeper, rotocap [NOTE: do not mix former and current exhaust valves] [23507504]
8	123524521	Valve exhaust	Identification H; MY 1991-2001 (Pre EGR) [NOTE: do not mix former and current exhaust valves] [23524521, 23506350]
8	13001	Valve exhaust	1.556 head dia, 8.497 OAL, 0.3429 stem dia, 30 deg, 1G, Iconel [23529596]
With EGR, from 2003			
32	18929573	Valve lock	[8929573]

Detroit Diesel		8.5L - 50 Series	4 Cylinder
		(Continued)	Bore 130mm
6043/6047: 518 CID			Stroke 160mm
16	140-8591	Valve guide	Std, 14.30mm to 14.32mm OD; 0.3453 ID, 0.5635 OD, 4.000 length; Guide bore reaming is recommended prior to installation [23518571]
to esn 04R37493			
16	23518572-F	Valve guide	.005" o/s, 14.43mm to 14.45mm OD [supercedes to 23538401]
to esn 04R37493			
16	123533552	Valve guide	Powdered metal replacement [23533552]
esn from 04R37493			
16	123523930	Valve stem seal	(not included in gasket sets) [23523930; replaces 8929072]
16	18929415	Valve spring	2.91" free length [8929415; replaced by 23535296]
Intake and Exhaust Non-EGR, Intake EGR			
8	23530359-F	Valve spring	3.25" free length, Yellow stripe [replaced by 23535122]
Exhaust EGR			
16	18929105	Rotocap	[8929105]
16	8929076-F	Valve spring seat	0.087" - 0.094" thick (2.20mm - 2.40mm)
	8929634-F	Valve spring seat	0.010 thicker (2.45mm - 2.65mm thick) [8929634]
	8929635-F	Valve spring seat	0.020 thicker (2.70mm - 2.90mm thick) [8929635]
	8929636-F	Valve spring seat	0.030 thicker (2.95mm - 3.15mm thick) [8929636]
8	8929127-F	Valve insert	Intake, Std (7.155mm-7.257mm thick) 1.8195 OD, 1.5710 ID, .2830 depth
	8929625-F	Valve insert	Intake, 0.010 (0.254mm) reduced thickness (6.901mm-7.003mm thick)
	8929626-F	Valve insert	Intake, 0.020 (0.508mm) reduced thickness (6.647mm-6.749mm thick)
	8929627-F	Valve insert	Intake, 0.030 (0.762mm) reduced thickness (6.393mm-6.495mm thick)
8	18929126	Valve insert	Exhaust; Std (6.261mm-6.363mm thick) 1.6285 OD, 1.3570 ID, .2490 depth [8929126]
	8929628-F	Valve insert	Exhaust, 0.010 (0.254mm) reduced thickness (6.007mm-6.109mm thick)
	8929629-F	Valve insert	Exhaust, 0.020 (0.508mm) reduced thickness (5.753mm-5.855mm thick)
	8929630-F	Valve insert	Exhaust, 0.030 (0.762mm) reduced thickness (5.499mm-5.601mm thick)
4	123501580	Injector tube	Used with N2 injector; DDEC-II through IV; Tube with seal ring 23515470 [23501580]
4	23533148-B	Injector tube	Used with N3 injector, DDEC-V, MY 2004; Threaded, stainless steel (requires 23533147 seal ring) [23533148]
4	23515470-F	Seal ring injector tube	Used with N2 injector; For 23501580 tube [23515470]
4	5104701-F	Seal injector tube	Injector tube auxillary ring, Large upper oring [5104701]
Use with N2 injector tube			
4	23511870-B	Seal injector tube	Injector tube auxillary ring, Lower graphite tip ring for injector [23511870]
Use with N2 injector tube			
4	23533147-B	Seal ring injector tube	Used with N3 injector; For 23533148 tube [23533147]
26	123530768	Bolt cylinder head	[23530768]
26	8929328-F	Washer head bolt	
1	8926993-F	Freeze plug	1/4 X 18; Recessed socket head
CRANKSHAFT			
1	23503707-F	Ball bearing	Position Clutch pilot
1	23525990-F	Damper vibration	Vibration, 13.5" diameter, one-piece [repl 8929502]
6	5133981-F	Washer	Vibration damper
CONNECTING ROD			
12	8929355-F	Bolt connecting rod	M14 x 1.5 x 108
12	8929019-F	Nut connecting rod	M14 x 1.5
OIL / LUBE SYSTEM			
1	5126327-F	Spring oil pump	Outlet bypass valve and oil pressure regulator, 2.96 free length {4.1620, 4.1690}
1	8922740-F	Valve oil pressure regul	Low pressure {4.1700}

Detroit Diesel		8.5L - 50 Series	4 Cylinder
		(Continued)	Bore 130mm
6043/6047: 518 CID			Stroke 160mm
1	8929302-F	Gasket oil filler	Fill tube adapter, 4 hole {4.5007, 4.5080}
1	123522415	Oil cooler	11-plate core [23522415; replaces 52474367]
model year 1991 and Up			
1	123522416	Oil cooler	9-plate [23522416]
model year 1991 and Up			
1	NLS0060	Set oil cooler	Oil cooler installation; for cooler with filter base [Contains: 23506247 gsk, 23505902 seal, 8929289 seal, (3) 23508392 seal]
1	23506247-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to oil filter adaptor) {4.4030}
2	8929289-F	Seal ring	Oil cooler housing outlet neck to block; Oring 2.734" ID x 0.139" thick {4.4055} [8929289]
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5113825-F	Chain oil filler cap	20 length {4.5030}
1	5121989-F	Chain oil filler cap	6.5 length {4.5030}
1	23513842-F	Washer copper	Oil gauge adapter {4.6020}
8	23517242-F	Isolator bushing	Oil pan {4.7001}
8	11504571-F	Bolt	Oil pan {4.7001}
FUEL / INJECTOR			
4	5234940R-P	Injector reman	Electronic; DDEC II
4	5235550R-P	Injector reman	Electronic; DDEC III
4	5235575R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5235600R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5235915R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5236347R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5236977R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5236978R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5236980R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5236981R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5237042R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5237466R-P	Injector reman	Electronic; DDEC III, DDEC IV
4	5237787R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5234699K-B	Injector oring kit	Internal and external, Includes MCBS60INJ, (2) 5234224 solenoid spacer seal, 4991539 solenoid valve stop oring, 5234701 internal oring
6	S60INJKIT	Injector oring kit	External, for 1 injector, Contains: 5234702 upper, (2) 5234699 lower, 5104701 tube auxiliary large, 23511870 tube auxiliary small graphite tip ring
1	11000	Injector oring kit	External, for 6 injectors, Contains: 5234702 upper, (2) 5234699 lower
1	5234702-F	Injector oring	Upper; Former style used 2 upper, Current style uses 1 upper {2.1040}
2	5234699-F	Injector oring	Lower
4	18929393	Bolt	For Injector clamp hold-down crab, M10 x 1.5 x 70.0 [8929393]
1	23505249-F	Fuel pump coupling	For high capacity fuel pump {2.2230}
1	8929479-F	Fuel pump coupling	For std capacity fuel pump {2.2230}
1	23506558-F	Fuel pump drive	For high capacity fuel pump {2.2292}
1	23511964-F	Fuel pump drive	For std. capacity fuel pump {2.2292}
1	8929787-F	Fuel pump hub	15.875mm ID {2.2292}
1	23506546-F	Fuel pump gear	Drive gear; .375 {2.2087, 2.2088}
1	23511959-F	Fuel pump gear	Driven gear; .275 {2.2087, 2.2088}

Detroit Diesel		8.5L - 50 Series		4 Cylinder
		(Continued)		Bore 130mm
6043/6047: 518 CID				Stroke 160mm
1	23506545-F	Fuel pump drive shaft	Drive shaft {2.2087, 2.2088}	
1	23506549-F	Fuel pump drive shaft	Driven shaft {2.2087, 2.2088}	
4	8923526-F	Bearing fuel pump	Fuel pump shaft {2.2060}	
1	5150193-F	Gasket fuel pump mtg		
1	23505248-F	Gasket fuel pump	Fuel pump mounting {2.2007}	
1	23506553-F	Plug fuel pump body	1/8-27 {2.2010}	
1	23506563-F	Fuel pump check valve	Kit, relief valve fuel pump; contains: valve (8923528), spacer (23506560), pin (23506564), cap (23506555), seal (23506556), spring (23506557) [23506563]	
1	8923528-F	Fuel pump check valve	Injector check valve {2.2130}	
1	23506560-F	Spacer fuel pump valve	{2.2130}	
1	23506564-F	Pin fuel pump valve	Relief valve shear pin {2.2130}	
1	23506557-F	Spring fuel pump valve	{2.2160}	
1	23506555-F	Plug fuel relief	Pump relief valve {2.2170}	
1	23506556-F	Seal fuel pump valve	Relief valve seal ring {2.2180}	
1	23524657-F	Oring	Fuel water separator {2.3390}	
1	9411502-F	Retaining ring	Mechanical governor weight {2.7470}	

COOLING SYSTEM

1	7122X-BP	Water pump	Remanufactured, rear mount, Standard flow; 1/4" pipe ports, 7 vane; cast 23516417, 23505894 [23517028, 23516524, 23516417, 23509068, 23505895]
1	123522707	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, square-cut seal groove (green), 6 vane high capacity impeller, 3/8 pipe ports; cast 23517027 [23522707, 23518215, 23522436]
to 06R0579833			
1	23526039-G	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, round o-ring seal groove (blue), 6 vane high capacity impeller, 3/8 pipe ports; cast 23522721 [23526039, 23524729]
effective 06R0579834			
1	23520377-F	Seal ring water pump	Water pump to gear case; front or rear mounted with square cut seal ring, viton, color coded green {5.1001}
1	23526038	Seal ring water pump	Water pump to gear case; rear mounted with round seal oring, color coded blue, 0.139" x 5.234" ID {5.1001}
1	23529962-F	Water pump kit	Repair, bearing, seals, seal rings, bearing retainer {5.1002} [replaces 23509105, 23505484, 23501579]
1	8922383-F	Water pump cover	Non metallic {5.1031, 5.1235}
1	23512048-F	Oring	Water pump cover; Gear case mounted pumps {5.1032}
1	8922407-F	Retaining ring	Fresh water pump cover {5.1032, 5.1236}
1	23505896-F	Water pump shaft	Gear case mounted pumps, drilled and tapped end {5.1050}
1	8929422-F	Bearing water pump	Water pump shaft {5.1070}
1	8929427-F	Retaining ring	Water pump bearing and seal {5.1071}
1	23517973-F	Impeller	Use with rear mount, high flow 6-vane, cast iron {5.1110}
1	23507913-B	Impeller	Use with rear mount, standard flow, 7-vane, cast iron {5.1110}
1	23522433-F	Seal	Water pump shaft, unitized seal [23528191, 23519204, 23519204, 23518316, 23508802, 8929148] {5.1130}
1	23505910-B	Gear water pump	RH, 61 teeth; use with rear mount pump (shaft drilled for bolt) {5.1190}
1	11509584-F	Lock nut	Water pump gear, Front mounted pumps, shaft with threaded end {5.1190}
1	23532436-EP	Thermostat	Kit 190 degree, 8929878 thermostat and 5132155 seal [23532436 kit]
1	8929878-F	Thermostat	190 degree {5.2050}
Type: 358, 439, 448, 488, 507, 511, 518, 520			

Detroit Diesel		8.5L - 50 Series	4 Cylinder
		(Continued)	Bore 130mm
6043/6047: 518 CID			Stroke 160mm
1	23503827-F	Thermostat	160F
Type: 481			
1	23503825-F	Thermostat	180F, full blocking, use seal
Type: 497, 516			
2	15132155	Thermostat seal	[5132155]
2	8929875-F	Hose	Water bypass tube 1-3/4 x 3.25 {5.2165}
4	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
1	8929216-F	Retaining Ring	Fan spindle; 1.618 OD {5.4111}
1	8929063-F	Retaining Ring	Fan spindle; 3.734 OD {5.4111}
1	8929213-F	Oil Seal	Fan spindle {5.4160}
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	18929529	Gasket turbo mounting	Single throat, 4-bolt holes [8929529]
1	18929285	Gasket turbo drain	[8929285]
3	123517875	Gasket manifold intake	2 port, non-EGR engines [23517875]
3	123511666	Gasket manifold exhaust	2-port; stainless steel [23511666; superseded by 23533983, 23539193]
2	8929765	Gasket manifold exhaust	3 port [not serviced, use 3 of 23511666] {6.010}
4	23507438-F	Exhaust manifold stud	Manifold to turbo; M10 x 1.5 x 44.0 {6.1022}
4	8929425-F	Stud turbo mounting	Turbo to manifold; M10 x 1.5 x 50.0 {6.1022}
12	8929357-F	Bolt	Manifold to head; M10 x 1.5 x 120 {6.1025}
BLOCK			
1	8924517-F	Pipe Plug	Gear case cover; 3/8 x 18 square head {1.1001}
1	8923313-F	Pipe Plug	Block, 3/4
1	23511574-F	Pipe Plug	1/2 pipe thread with 1 inch square head
1	8929015-F	Dowel Pin	16mm; Circular shape
2	8929022-F	Dowel Pin	16mm; Diamond shape
1	8929152-F	Dowel Pin	20mm; Circular shape
1	8929153-B	Dowel Pin	20mm; Diamond shape
MISC			
	MISC1	ACCESSORY DRIVE	
1	18929130	Gasket	Upper right rear & cam access cover; Tach drive cover [8929130]
1	8929253-F	O-ring	Accessory drive cover; .139 x 4.609 ID {1.7600}
1	23509204-F	Lock ring	Accessory drive {1.7650}
1	23511746-F	Lock ring	Accessory gear {1.7650}
2	8929064-F	Snap Ring	Accessory drive; 3.121 OD {1.7650}
1	23505643-F	Lock ring	Power steering pump adaption {1.7650}
1	8929062-F	Lock ring	Air compressor {1.7650}
1	23518178-F	Ball bearing	Accessory drive {1.7655}
1	23509203-F	Ball bearing	Accessory gear shaft {1.7655}
1	8929024-F	Ball bearing	Bearing assembly {1.7655}
1	23511745-F	Bearing accy drive	Accessory drive {1.7655} Cylindrical
1	23511747-F	Oil Seal	Oil accessory drive {1.7660}
1	8929154-F	Oil Seal	Oil accessory drive {1.7660}
1	99133-FM	Sleeve	Redi, Use with 8929154 seal
	MISC2	AIR COMPRESSOR	
1	8929299-F	Gasket air compressor	Air compressor drive housing {12.4039}
1	8929820-F	Bearing roller	Air compressor {12.4048}

Detroit Diesel		8.5L - 50 Series (Continued)	4 Cylinder Bore 130mm Stroke 160mm	
6043/6047: 518 CID				
1	5141773-F	Drive coupling	Air compressor drive {12.4050}	
	MISC3	MISCELLANEOUS		
8	23502879-F	Isolator bushing	ECM mounting; DDEC II {2.1520}	
8	23512307-F	Isolator bushing	ECM mounting, DDEC III, DDEC IV, DDEC V {2.1520}	
1	5101760-F	Crankcase Breather	Element in valve cover, 4 inch round {4.8060}	
6	23515946-F	Spark Plug	[Being discontinued, check for availability] Natural gas Engines {7.8700}	

Detroit 11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
Diesel		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)		Stroke 139mm	
ENGINE KITS			
1	DET60-32590IF-E	InFrame kit	Early rod bearing 1.710 width, 2.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32590IF-L	InFrame kit	Late rod bearing 1.867 width, 2.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32591IF-E	Inframe kit	Early rod bearing 1.710 width, 3.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32591IF-L	Inframe kit	Late rod bearing 1.867 width, 3.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32555IF-E	InFrame kit	Early rod bearing 1.710 width, 2.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32555IF-L	InFrame kit	Late rod bearing 1.867 width, 2.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32556IF-E	InFrame kit	Early rod bearing 1.710 width, 3.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32556IF-L	InFrame kit	Late rod bearing 1.867 width, 3.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	11011	Pistonless rering kit	Pistonless (No crown, skirt, pin, retainers); LESS: pan gkt, valve cvr gsk, valve stem seals
For open end rod, groove upper half wide rod bearing (23515581)			
CYLINDER KIT			
6	23532590-F	Cylinder kit	STD liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23519625) [23519624 piston kit, 23532468 liner kit, 23503747 rings]
Pre 1991			
6	23532591-F	Cylinder kit	STD liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23519637) [23519635 piston kit, 23532468 liner kit, 23505729 rings]
Pre 1991			
6	23532555-F	Cylinder kit	TLC liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23523951) [23519624 piston kit, 23531249 liner kit, 23503747 rings]
EK, SK, WT, WU: Under 470HP; Do not use in engines above sn 6R0408505			
6	23532556-F	Cylinder kit	TLC liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23532952) [23519635 piston kit, 23531249 liner kit, 23505729 rings]
EK, SK, WK; Do not use in engines above sn 6R0408505			
6	23519624-F	Piston kit	5.118 bore, 2.50mm top ring, 15:1 CR, large OD dome [23529667 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]
6	23519635-F	Piston kit	5.118 bore, 3.50mm top ring, 15:1 CR, large OD dome [23519734 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]
6	23516681-F	Piston skirt	Ductile iron for standard cross head piston
6	23519723H-F	Bearing piston pin	Use with OEM and FPD style pistons; Set[(1) 23504942H top bushing, (2) 23519558 ear bushings] Has a hole drilled to fit the retaining pin on FPD pistons
6	23519723-F	Bearing piston pin	Use only with OEM style pistons; Set [(1) 23504942 top bushing, (2) 23519558 ear bushings]
6	8929087-F	Piston pin	For cross-head style piston, bolted to connecting rod [8929087]
12	8929337-F	Piston pin bolt	

Detroit Diesel		11.1L - 60 Series (Continued) 6067: E/L/S/W (5th digit in model number)	6 Cylinder Bore 130mm Stroke 139mm	Block: 8929656, 23505874 Rod: 8929237, 8929484, 8929485
6	23503747-F	Ring set	130mm (5.118") bore, 2.50mm top ring, keystone compression rings, 1 cyl set [23503747; 8929844 top, 8929845 2nd, 23515500 oil; replaces 23525553, 23501575]	
6	23505729-F	Ring set	130mm (5.118") bore, 3.50mm top ring, keystone compression rings, 1 cyl set [23504941 top, 8929845 2nd, 2351500 oil]	
6	8929844-F	Ring single	5.118 bore, compression, top 2.50mm	
6	23504941-F	Ring single	5.118 bore, compression, top 3.50mm	
6	8929845-F	Ring single	5.118 bore, compression, 2nd groove	
6	23515500-F	Ring single	5.118 bore, oil control with expander	
6	23529379-F	Ring single	5.118 bore, oil ring expander	
6	23532468-F	Cylinder liner	130mm (5.118") bore, Liner and seals, Std non TLC (23532361 liner, 892903 crevice seal, 8929176 D ring seal) [repl 23505278]	
6	23532361-F	Cylinder liner	130mm (5.118") bore, Liner only, Std non TLC, liner only [repl 8929442]	
6	123531249	Cylinder liner kit	130mm (5.118") bore, Liner and seals, TLC (123530226 liner, 18929013 crevice seal, (2) 18929176 D ring seal) [23531249; replaces 23523948, 23514285]	
6	23530226-F	Cylinder liner	[Not available seperatly, order 23531249] 130mm (5.118") bore, Liner only, TLC [replaces 23523392]	
6	18929013	Cylinder liner oring	Crevice seal, black [8929013]	
12	18929176	Cylinder liner seal	D-ring, blue [8929176]	
6	23525500-F	Insert counterbore	Upper counterbore repair	
	20044-F	Shim counterbore	Flange shim, block counterbore 0.031 "	
	20045-F	Shim counterbore	Flange shim, block counterbore 0.062 "	
	S60.030 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060 " stainless steel	
	S60.060 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060 " stainless steel	
6	20042-F	Lower Block Bore Sleeve		
BEARINGS				
1	123531604	Bearing kit lower end	Std; Used with cross-head piston, bolt on conn rods AND 43.43mm (1.7100") OAL rod bearings [(6) 8929670, (1) 8929680, (2) 8929085, (6) 8929710]	
WK esn to 184522 (open end rods, July 1994)				
1	123531605	Bearing kit lower end	Std; Used with cross-head piston, bolt on conn rods AND 47.43 mm (1.8670") OAL rod bearings [(6) 18929670, (1) 18929680, (2) 18929085, (6) 123515581] [23531605, 23519904]	
WK esn 184523 and Up (open end rods)				
6	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]	
6	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]	
6	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]	
6	18929673	Bearing main pair	0.762mm (0.030") [8929673 pair; (1) 23533249 lower, (1) 23533256 upper]	
1	18929680	Bearing thrust pair	Std, flanged [8929680 pair; (1) 23533252 / 8929082 lower, (1) 23533263 / 8929083 upper]	
1	18929681	Bearing thrust pair	0.254mm (0.010"), flanged [8929681 pair; (1) 23533251 lower, (1) 23533262 upper]	
1	18929682	Bearing thrust pair	0.508mm (0.020"), flanged [8929682 pair; (1) 23533250 lower, (1) 23533261 upper]	
1	18929683	Bearing thrust pair	0.762mm (0.030"), flanged [8929683 pair; (1) 23533249 lower, (1) 8929688 upper]	

Detroit Diesel		11.1L - 60 Series	6 Cylinder	Block: 8929656, 23505874
(Continued)			Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)			Stroke 139mm	
2	18929085	Thust washer	Std, single	
2	18929697	Thust washer	0.127mm (0.005"), single	
2	18929698	Thust washer	0.254mm (0.010"), single	
6	18929710	Bearing rod pair	Std, 43.43mm (1.7100") OAL (former style) [8929553 upper, 8929554 lower]	
WK esn to 184522 (open end rods, July 1994)				
6	8929711-F	Bearing rod pair	0.254mm (0.010"), 1.7100 or 43.43mm OAL (former style) [8929714 upper, 8929715 lower]	
6	8929712-F	Bearing rod pair	0.508mm (0.020"), 1.7100 or 43.43mm OAL (former style) [8929716 upper, 8929717 lower]	
6	8929713-F	Bearing rod pair	0.762mm, (0.030") 1.7100 or 43.43mm OAL (former style) [8929718 upper, 8929719 lower]	
6	123515581	Bearing rod pair	Std, Used with cross-head piston, bolt on conn rods, 47.43mm (1.8670") OAL, grooved upper half [23515581 pair; 23515586 upper, 23515585 lower]	
WK esn 184523 and Up (open end rods)				
6	123515582	Bearing rod pair	0.254mm (0.010"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515582 pair; 23515588 upper, 23515587 lower]	
6	123515583	Bearing rod pair	0.508mm (0.020"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515583 pair; 23515590 upper, 23515589 lower]	
6	123515584	Bearing rod pair	0.762mm (0.030"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515584 pair; 23515592 upper, 23515591 lower]	
7	18929690	Bearing cam	Std, pair [8929690]	
7	8929691-F	Bearing cam	0.254mm (0.010"), pair	
7	8929692-F	Bearing cam	0.508mm (0.020"), pair	
7	8929693-F	Bearing cam	0.762mm (0.030"), pair	
GASKET & SEALS				
1	123532332	Set overhaul	Pre EGR; Does not include: Valve cover gasket, valve stem seals, pan gasket, crankshaft seals [23532332, replaces 23512691]	
1	123532333	Set cylinder head	Pre EGR; Does not include: Valve cover gasket, valve stem seals [23532333; replaces 23526852, 23501572]	
1	1NU1003	Set conversion	LESS: crankshaft seals, oil pan gasket	
	G1	UPPER GASKETS		
1	23532298-F	Gasket cylinder head	ML7(TM) head gasket design, metal sandwich-type gasket [23538406 gasket, with instruction sheet] [replaces 23532045, 23530421,23522588]	
1	123516322	Gasket valve cover	Gray silicone, old style; For 1-pc cover with 4-bolts (also used: 2-pc and 3-pc: lower to head) [23516322, repl 8929863]	
1-pc cover: approx. esn to 06R0512190; 2-pc cover: approx. esn to 06R0585165				
1	123522269	Gasket valve cover	Black polyacrylate, new style; For 1-pc cover with 10-bolts (also used: 2-pc and 3-pc: lower to head) [23522269]	
1-pc cover: approx. esn 06R0512191 and up; 2-pc cover: approx. esn 06R0585166 and Up				
1	18929803	Gasket valve cover	106.68" circumference; diamond shaped 0.146" thick; 2-pc upper to lower; 3-pc intermediate to lower	
esn to 06R0130014				
1	23511991-F	Gasket valve cover	106.68" circumference; diamond shaped 0.186" thick; 2-pc upper to lower; 3-pc intermediate to lower	
esn 06R0130015 and Up (June 1993)				

Detroit 11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
Diesel (Continued)		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)		Stroke 139mm	
1	23506153-F	Gasket valve cover	98.38" circumference; diamond shaped 0.146" thick; 3-pc upper to intermediate; Use with OE# 23505973 cover
esn to 06R0130014			
1	23511992-F	Gasket valve cover	98.38" circumference; diamond shaped 0.186" thick; 3-pc upper to intermediate; Exc.OE# 23505973
esn 06R0130015 and Up (June 1993)			
4	8929255-F	Isolator rckr cvr bolt	1.735 OD; One piece rubber
1-pc cover only, approx. esn to 06R0281612 (pre 1996) isolator and washer are seperate pieces			
4	5104514-F	Washer rocker cover	
1-pc cover only, approx. esn to 06R0281612 (pre 1996) isolator and washer are seperate pieces			
4	23517912-F	Isolator rckr cvr bolt	1.756 OD; One piece rubber with metal washer
1-pc cover only, approx. esn 06R0281613 to 06R0512190			
10	23517911-F	Isolator rckr cvr bolt	One piece rubber with metal washer [replaces 8929559 isolator and 8929560 washer]
2-pc cover: approx. esn to 06R0585165			
10	123522271	Isolator rckr cvr bolt	Bolt and isolator 1-pc assembly [23522271]
1-pc cover: approx. esn 06R0512191 and Up; 2-pc cover: approx. esn 06R0585166 Up			
G5		PAN GASKETS	
1	18929102	Gasket oil pan	Old style; standard oil pan; gray silicone [8929102]
esn to 06R0502358 (to April 1999)			
1	123522279	Gasket oil pan	New style; black, Use for oil pan without cord modified seal system; effective April 1999 [23522279; New number 23539104]
esn 06R0502359 and Up			
G3		CRANK SEALS	
1	123518355	Seal crankshaft front	Seal and sleeve [23518355, replaces 23513485]
1	8923655-F	Sleeve crankshaft front	Used with early seal: 23509591, 23501545
1	123516969	Seal crankshaft rear	Seal and sleeve, dry housing, single lip, teflon [23516969, contains 23501544 seal; replaces 23513577]
1	123519651	Seal crankshaft rear	Seal and sleeve, dry housing, Unitized assembly [23519651]
esn 06R0491683 and Up			
1	23513578-F	Seal crankshaft rear	Seal and sleeve, wet housing, double lip wrap around
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
CAMSHAFT			
1	671671	Timing bull gear	[8929168]
1	8929108-F	Bushing cam gear	
1	123521935	Seal ring	Cam thrust plate to cylinder head, 2 bolt [23521935; replaces 23517334]
1	23521894-F	Seal ring	Cam thrust plate to cylinder head, 3 bolt {1.7075}
1	23528491-F	Seal ring	Cam thrust plate to gear housing, perimeter seal (repl 8929318) {1.7075}
2	8929740-F	Seal ring	Cam bearing cap to cylinder head; .134 x .074 x .480 {1.3156, 1.7042, 1.8160}
2	23522975-F	Seal ring	Cam bearing cap to cylinder head, racetrack {1.7042, 1.8160}
6	23538247PR-B	Pin and roller kit	Exhaust rocker arm; Ceramic pin and roller
6	23532937PR-B	Pin and roller kit	Intake rocker arm; Ceramic pin and roller
6	23513939PR-B	Pin and roller kit	Injector rocker arm; Ceramic pin and roller
	8929059-F	Bushing rocker arm	Service bushing, Narrow, 15mm wide; must be finished to final size after installation
	8929536-F	Bushing rocker arm	Service bushing, Wide, 20mm wide; must be finished to final size after installation
12	23520819-F	Adjusting screw	Exhaust valve adjusting {1.8135}
12	23520818-F	Adjusting screw	Intake valve adjusting {1.8135}

Detroit Diesel		11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
		(Continued)		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)				Stroke 139mm	
6	23520820-F	Adjusting screw	Injector adjusting {1.8135}		
30	23514371-F	Nut rocker arm	Arm adjusting screw; 3/8 - 24 {1.8135}		
30	5138643-F	Button rocker arm	Arm adjusting screw (1.8135)		
1	5103646-F	Breather Seal Ring	Seal DC rocker cover breather {1.8450, 4.8057}		
VALVE TRAIN					
1	22-60SERIES	Cylinder head	Remanufactured complete, cast# 8929620, 8929872		
12	23501576-B	Valve intake kit	Includes 23529629 valve, valve seal, keeper, rotocap		
12	123529629	Valve intake	1.7320 head dia, 0.3421" stem dia, 8.4980 length, 30 degree [23529629, 8929589]		
12	23501577-F	Valve exhaust kit	Identification U; Pre MY 1991; Includes 8929590 valve, valve seal, keeper & rotocap [NOTE: do not mix former and current exhaust valves]		
12	8929590-F	Valve exhaust	Identification U; Pre MY 1991; 1.5760 head dia., 0.3421 stem dia., 8.4980 length, 30 degree [NOTE: do not mix former and current exhaust valves]		
12	123507504	Valve exhaust kit	Identification H; MY 1991-2001 (Pre EGR) Includes 123524521 valve, valve seal, keeper, rotocap [NOTE: do not mix former and current exhaust valves] [23507504]		
12	123524521	Valve exhaust	Identification H; MY 1991-2001 (Pre EGR) [NOTE: do not mix former and current exhaust valves] [23524521, 23506350]		
48	18929573	Valve lock	[8929573]		
24	123533552	Valve guide	Powdered metal replacement [23533552]		
24	140-8591	Valve guide	Std, 14.30mm to 14.32mm OD; 0.3453 ID, 0.5635 OD, 4.000 length; Guide bore reaming is recommended prior to installation [23518571]		
24	23518572-F	Valve guide	.005" o/s, 14.43mm to 14.45mm OD [supercedes to 23538401]		
24	123523930	Valve stem seal	(not included in gasket sets) [23523930; replaces 8929072]		
24	18929415	Valve spring	2.91" free length [8929415; replaced by 23535296]		
38	123530768	Bolt cylinder head	[23530768]		
24	18929105	Rotocap	[8929105]		
24	8929076-F	Valve spring seat	0.087" - 0.094" thick (2.20mm - 2.40mm)		
	8929634-F	Valve spring seat	0.010 thicker (2.45mm - 2.65mm thick) [8929634]		
	8929635-F	Valve spring seat	0.020 thicker (2.70mm - 2.90mm thick) [8929635]		
	8929636-F	Valve spring seat	0.030 thicker (2.95mm - 3.15mm thick) [8929636]		
12	8929127-F	Valve insert	Intake, Std (7.155mm-7.257mm thick) 1.8195 OD, 1.5710 ID, .2830 depth		
	8929625-F	Valve insert	Intake, 0.010 (0.254mm) reduced thickness (6.901mm-7.003mm thick)		
	8929626-F	Valve insert	Intake, 0.020 (0.508mm) reduced thickness (6.647mm-6.749mm thick)		
	8929627-F	Valve insert	Intake, 0.030 (0.762mm) reduced thickness (6.393mm-6.495mm thick)		
12	18929126	Valve insert	Exhaust; Std (6.261mm-6.363mm thick) 1.6285 OD, 1.3570 ID, .2490 depth [8929126]		
	8929628-F	Valve insert	Exhaust, 0.010 (0.254mm) reduced thickness (6.007mm-6.109mm thick)		
	8929629-F	Valve insert	Exhaust, 0.020 (0.508mm) reduced thickness (5.753mm-5.855mm thick)		
	8929630-F	Valve insert	Exhaust, 0.030 (0.762mm) reduced thickness (5.499mm-5.601mm thick)		
6	123501580	Injector tube	Used with N2 injector; DDEC-II through IV; Tube with seal ring 23515470 [23501580]		
6	23515470-F	Seal ring injector tube	Used with N2 injector; For 23501580 tube [23515470]		
6	5104701-F	Seal injector tube	Injector tube auxillary ring, Large upper oring [5104701]		
Use with N2 injector tube					
6	23511870-B	Seal injector tube	Injector tube auxillary ring, Lower graphite tip ring for injector [23511870]		
Use with N2 injector tube					
38	8929328-F	Washer head bolt			
1	8926993-F	Freeze plug	1/4 X 18; Recessed socket head		

Detroit 11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
Diesel (Continued)		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)		Stroke 139mm	
CRANKSHAFT			
1	8929238-Q	Crankshaft	11.1L, 12 hole; Flange: flat no centering ring, 12 bolt holes; Snout: Straight, 1 large bolt hole, 3 keyways
esn -> 184522			
1	23515597-F	Crankshaft	11.1L, 12 hole (late, wide connecting rod bearings)
esn 184522 -> (engine may have been updated to large journal, must use wide rods also)			
1	23503707-F	Ball bearing	Position Clutch pilot
CONNECTING ROD			
6	R8929237	Connecting rod	Remanufactured, 11.1L narrow bearing (former style crankshaft) [8929237; Cast 8929235]
6	R23515594	Connecting rod	Remanufactured, open-end bolt-on, 11.1L wide bearing (current style crankshaft) [23515594]
12	8929355-F	Bolt connecting rod	M14 x 1.5 x 108
12	8929019-F	Nut connecting rod	M14 x 1.5
OIL / LUBE SYSTEM			
5	5127978-F	Bushing oil pump shaft	Oil pump; 3 used in body, 2 used in cover {4.1050, 4.1220}
1	5126327-F	Spring oil pump	Outlet bypass valve and oil pressure regulator, 2.96 free length {4.1620, 4.1690}
2	18929344	Gasket oil pump tube	Pickup-inlet tube to pump [8929344]
Pre 1991 model year: Pickup-inlet tube to pump, Outlet tube to pump			
1	123505992	Gasket oil pump tube	Pickup-inlet tube to pump [23505992]
model year 1991 and Up			
2	18929347	Gasket oil pump tube	Outlet tube to block [8929347]
1	23505891-B	Oring oil pump tube	Outlet tube to pump, 1.109" ID [23505891]
model year 1991 and Up			
1	23505892-B	Oring oil pump tube	Outlet tube to relief valve, 0.859" ID [23505892]
model year 1991 and Up			
2	15117269	Gasket oil regulator	Outlet pipe, junction block (triangle shape) [5117269]
Oil pressure regulator mounting, Oil pressure relief valve mounting			
1	8922740-F	Valve oil pressure regul	Low pressure {4.1700}
1	8547626-F	Oil Cooler	8 plate {4.4001}
Pre 1991 model year			
1	123522415	Oil cooler	11-plate core [23522415; replaces 52474367]
model year 1991 and Up			
1	123522416	Oil cooler	9-plate [23522416]
model year 1991 and Up			
1	NLS0060	Set oil cooler	Oil cooler installation; for cooler with filter base [Contains: 23506247 gsk, 23505902 seal, 8929289 seal, (3) 23508392 seal]
1	8929348-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to block) {4.4030}
Pre 1991 model year			
1	23506247-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to oil filter adaptor) {4.4030}
model year 1991 and Up			
2	8929280-F	Seal ring	Oil cooler core; sqare cut 1.875" ID x 0.138" x 0.138" {4.4040} [8929280]
Pre 1991 model year			
3	123508392	Seal oil cooler	Oil filter adapter to block; Square cut 1.234" ID x 0.135" x 0.135" [23508392]
model year 1991 and Up: qty 1 also used for Adaptor to block			

Detroit 11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
Diesel (Continued)		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)		Stroke 139mm	
2	8929289-F	Seal ring	Oil cooler housing outlet neck to block; Oring 2.734" ID x 0.139" thick {4.4055} [8929289]
Pre 1991 model year: qty 2 used; model year 1991 and Up: qty 1 used			
1	8929340-F	Seal ring	Oil filter adapter, bypass {4.2291} [8929340]
Pre 1991 model year			
1	8929341-F	Seal ring	Oil filter adapter, square packing {4.2291} [8929341]
Pre 1991 model year			
1	8929342-F	Seal ring	Oil filter adapter, figure 8 shape {4.2291} [8929342]
Pre 1991 model year			
1	23532850-B	Seal oil cooler	Oil filter adapter to block, bypass; Square cut, 2.625" ID [23532850]
model year 1991 and Up			
1	8929302-F	Gasket oil filler	Fill tube adapter, 4 hole {4.5007, 4.5080}
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5113825-F	Chain oil filler cap	20 length {4.5030}
1	5121989-F	Chain oil filler cap	6.5 length {4.5030}
1	23513842-F	Washer copper	Oil gauge adapter {4.6020}
10	23517242-F	Isolator bushing	Oil pan {4.7001}
10	11504571-F	Bolt	Oil pan {4.7001}
FUEL / INJECTOR			
6	5234785R-P	Injector reman	Electronic; DDEC I
6	5234865R-P	Injector reman	Electronic; DDEC II
6	5234870R-P	Injector reman	Electronic; DDEC II
6	5234935R-P	Injector reman	Electronic; DDEC II
6	5234940R-P	Injector reman	Electronic; DDEC II
6	5235550R-P	Injector reman	Electronic; DDEC III
6	5235580R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5235605R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5236978R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5234699K-B	Injector oring kit	Internal and external, Includes MCBS60INJ, (2) 5234224 solenoid spacer seal, 4991539 solenoid valve stop oring, 5234701 internal oring
6	S60INJKIT	Injector oring kit	External, for 1 injector, Contains: 5234702 upper, (2) 5234699 lower, 5104701 tube auxillary large, 23511870 tube auxillary small graphite tip ring
1	11000	Injector oring kit	External, for 6 injectors, Contains: 5234702 upper, (2) 5234699 lower
1	5234702-F	Injector oring	Upper; Former style used 2 upper, Current style uses 1 upper {2.1040}
2	5234699-F	Injector oring	Lower
6	18929393	Bolt	For Injector clamp hold-down crab, M10 x 1.5 x 70.0 [8929393]
1	23505249-F	Fuel pump coupling	For high capacity fuel pump {2.2230}
1	8929479-F	Fuel pump coupling	For std capacity fuel pump {2.2230}
1	23506558-F	Fuel pump drive	For high capacity fuel pump {2.2292}
1	23511964-F	Fuel pump drive	For std. capacity fuel pump {2.2292}
1	8929787-F	Fuel pump hub	15.875mm ID {2.2292}
1	8929480-F	Fuel pump hub	12.70mm ID {2.2292}
1	23506546-F	Fuel pump gear	Drive gear; .375 {2.2087, 2.2088}
1	23511959-F	Fuel pump gear	Driven gear; .275 {2.2087, 2.2088}

Detroit 11.1L - 60 Series		6 Cylinder	Block: 8929656, 23505874
Diesel (Continued)		Bore 130mm	Rod: 8929237, 8929484, 8929485
6067: E/L/S/W (5th digit in model number)		Stroke 139mm	
1	23506545-F	Fuel pump drive shaft	Drive shaft {2.2087, 2.2088}
1	23506549-F	Fuel pump drive shaft	Driven shaft {2.2087, 2.2088}
4	8923526-F	Bearing fuel pump	Fuel pump shaft {2.2060}
1	5150193-F	Gasket fuel pump mtg	
Early: Fuel pump to drive assembly			
1	23505248-F	Gasket fuel pump	Fuel pump mounting {2.2007}
Late: Fuel pump to drive assembly OR mount			
1	23506553-F	Plug fuel pump body	1/8-27 {2.2010}
1	23506563-F	Fuel pump check valve	Kit, relief valve fuel pump; contains: valve (8923528), spacer (23506560), pin (23506564), cap (23506555), seal (23506556), spring (23506557) [23506563]
1	8923528-F	Fuel pump check valve	Injector check valve {2.2130}
1	23506560-F	Spacer fuel pump valve	{2.2130}
1	23506564-F	Pin fuel pump valve	Relief valve shear pin {2.2130}
1	23506557-F	Spring fuel pump valve	{2.2160}
1	23506555-F	Plug fuel relief	Pump relief valve {2.2170}
1	23506556-F	Seal fuel pump valve	Relief valve seal ring {2.2180}
1	23524657-F	Oring	Fuel water separator {2.3390}
1	9411502-F	Retaining ring	Mechanical governor weight {2.7470}
COOLING SYSTEM			
1	23509067RX	Water pump	Remanufactured; Front mount, gear driven, one outlet, cast 23505018, 8929511 [23509067, 23514989, 23505019, 8929509]
prior to esn 06R037024 (12/1990)			
1	7122X-BP	Water pump	Remanufactured, rear mount, Standard flow; 1/4" pipe ports, 7 vane; cast 23516417, 23505894 [23517028, 23516524, 23516417, 23509068, 23505895]
esn 06R037024 to 06R0579833			
1	123522707	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, square-cut seal groove (green), 6 vane high capacity impeller, 3/8 pipe ports; cast 23517027 [23522707, 23518215, 23522436]
esn 06R037024 to 06R0579833			
1	23526039-G	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, round o-ring seal groove (blue), 6 vane high capacity impeller, 3/8 pipe ports; cast 23522721 [23526039, 23524729]
effective 06R0579834: can replace 23522436			
1	8929158-F	Seal ring water pump	Water pump to gear case; front mounted pump with round seal oring, 0.139" x 5.539" ID {5.1001, 5.1032}
1	23520377-F	Seal ring water pump	Water pump to gear case; front or rear mounted with square cut seal ring, viton, color coded green {5.1001}
1	23526038	Seal ring water pump	Water pump to gear case; rear mounted with round seal oring, color coded blue, 0.139" x 5.234" ID {5.1001}
1	23529962-F	Water pump kit	Repair, bearing, seals, seal rings, bearing retainer {5.1002} [replaces 23509105, 23505484, 23501579]
1	23507073-F	Gasket water pump	For front mounted pump {5.1010}
1	8922383-F	Water pump cover	Non metallic {5.1031, 5.1235}
1	23512048-F	Oring	Water pump cover; Gear case mounted pumps {5.1032}
1	8922407-F	Retaining ring	Fresh water pump cover {5.1032, 5.1236}
1	8929157-F	Water pump shaft	Front mounted pumps, threaded end {5.1050}
1	23505896-F	Water pump shaft	Gear case mounted pumps, drilled and tapped end {5.1050}
1	8929334-F	Key woodruff	Fresh water pump shaft, 4 x 5, Front mounted pumps, shaft with threaded end {5.1050}
1	8929422-F	Bearing water pump	Water pump shaft {5.1070}

Detroit Diesel		11.1L - 60 Series (Continued) 6067: E/L/S/W (5th digit in model number)	6 Cylinder Bore 130mm Stroke 139mm	Block: 8929656, 23505874 Rod: 8929237, 8929484, 8929485
1	8929427-F	Retaining ring	Water pump bearing and seal {5.1071}	
1	8929512-F	Impeller	Use with front mounted pumps {5.1110}	
1	23507913-B	Impeller	Use with rear mount, standard flow, 7-vane, cast iron {5.1110}	
1	23517973-F	Impeller	Use with rear mount, high flow 6-vane, cast iron {5.1110}	
1	8929134-F	Seal	Water pump shaft, lip type {5.1130}	
1	23522433-F	Seal	Water pump shaft, unitized seal [23528191, 23519204, 23519204, 23518316, 23508802, 8929148] {5.1130}	
1	8929135-B	Gear water pump	RH, 61 teeth; use with front mount pump (shaft keyed and locknut) {5.1190}	
1	23505910-B	Gear water pump	RH, 61 teeth; use with rear mount pump (shaft drilled for bolt) {5.1190}	
1	11509584-F	Lock nut	Water pump gear, Front mounted pumps, shaft with threaded end {5.1190}	
1	8929510-F	Seal ring water pump	Water pump cover to body, front mounted pumps with round seal oring {5.1236}	
1	23505024-F	Seal ring water pump	Water pump cover to body, front or rear mounted with square cut seal ring {5.1236}	
2	23503827-F	Thermostat	160F	
2	23503825-EP	Thermostat	180F non-vented [23503825]	
2	23532436-EP	Thermostat	Kit 190 degree, 8929878 thermostat and 5132155 seal [23532436 kit]	
Prior to DDEC V				
2	8929878-F	Thermostat	190 degree {5.2050}	
2	15132155	Thermostat seal	[5132155]	
2	8929875-F	Hose	Water bypass tube 1-3/4 x 3.25 {5.2165}	
2	23514665	Hose	Water bypass tube 2.00 x 3.00, silicone blue {5.2165}	
4	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose	
2	23506325-F	Hose	Water pump to cooler, 2.75 x 3.00 {5.3401}	
2	8929724	Hose	Water pump to cooler, 3.00 x 2.50 {5.3401}	
1	23503704-F	Ball bearing	Fan shaft inner {5.4110}	
1	23503535-F	Ball bearing	Fan shaft outer {5.4110}	
1	8929216-F	Retaining Ring	Fan spindle; 1.618 OD {5.4111}	
1	8929063-F	Retaining Ring	Fan spindle; 3.734 OD {5.4111}	
1	5103951-F	Oil Seal	Fan shaft {5.4150}	
1	8929213-F	Oil Seal	Fan spindle {5.4160}	
TURBO / AIR				
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing	
1	650652	Sensor turbo boost	Air turbo boost pressure, DDEC II and III, with seal oring 5182977 [23528418 kit; 12219935 sensor, 5182977 seal]	
1	23522322-B	Sensor turbo boost	Air turbo boost pressure DDEC IV Pre-EGR [23522322]	
1	18929529	Gasket turbo mounting	Single throat, 4-bolt holes [8929529]	
1	18929285	Gasket turbo drain	[8929285]	
1	23512896	Manifold exhaust	High mount [23511978 center, 23511221 front, 23511222 rear]	
3	123517875	Gasket manifold intake	2 port, non-EGR engines [23517875]	
3	123531110	Gasket manifold intake	2 port, EGR engines {3.3803} [23531110]	
3	123511666	Gasket manifold exhaus	2-port; stainless steel [23511666; superceded by 23533983, 23539193]	
2	8929765	Gasket manifold exhaus	3 port [not serviced, use 3 of 23511666] {6.010}	
4	23507438-F	Exhaust manifold stud	Manifold to turbo; M10 x 1.5 x 44.0 {6.1022}	
4	8929425-F	Stud turbo mounting	Turbo to manifold; M10 x 1.5 x 50.0 {6.1022}	
12	8929357-F	Bolt	Manifold to head; M10 x 1.5 x 120 {6.1025}	
BLOCK				
1	8924517-F	Pipe Plug	Gear case cover; 3/8 x 18 square head {1.1001}	

Detroit Diesel		11.1L - 60 Series (Continued) 6067: E/L/S/W (5th digit in model number)	6 Cylinder Bore 130mm Stroke 139mm	Block: 8929656, 23505874 Rod: 8929237, 8929484, 8929485
1	8923313-F	Pipe Plug	Block, 3/4	
1	23511574-F	Pipe Plug	1/2 pipe thread with 1 inch square head	
1	8929015-F	Dowel Pin	16mm; Circular shape	
2	8929022-F	Dowel Pin	16mm; Diamond shape	
1	8929152-F	Dowel Pin	20mm; Circular shape	
1	8929153-B	Dowel Pin	20mm; Diamond shape	
MISC				
	MISC1	ACCESSORY DRIVE		
1	18929130	Gasket	Upper right rear & cam access cover; Tach drive cover [8929130]	
1	8929253-F	Oring	Accessory drive cover; .139 x 4.609 ID {1.7600}	
1	23509204-F	Lock ring	Accessory drive {1.7650}	
1	23511746-F	Lock ring	Accessory gear {1.7650}	
2	8929064-F	Snap Ring	Accessory drive; 3.121 OD {1.7650}	
1	23505643-F	Lock ring	Power steering pump adaption {1.7650}	
1	8929062-F	Lock ring	Air compressor {1.7650}	
1	23518178-F	Ball bearing	Accessory drive {1.7655}	
1	23509203-F	Ball bearing	Accessory gear shaft {1.7655}	
1	8929024-F	Ball bearing	Bearing assembly {1.7655}	
1	23511745-F	Bearing accy drive	Accessory drive {1.7655} Cylindrical	
1	23511747-F	Oil Seal	Oil accessory drive {1.7660}	
1	8929154-F	Oil Seal	Oil accessory drive {1.7660}	
1	99133-FM	Sleeve	Redi, Use with 8929154 seal	
	MISC2	AIR COMPRESSOR		
1	8929299-F	Gasket air compressor	Air compressor drive housing {12.4039}	
1	8929820-F	Bearing roller	Air compressor {12.4048}	
1	5141773-F	Drive coupling	Air compressor drive {12.4050}	
	MISC3	MISCELLANEOUS		
8	23502879-F	Isolator bushing	ECM mounting; DDEC II {2.1520}	
8	23512307-F	Isolator bushing	ECM mounting, DDEC III, DDEC IV, DDEC V {2.1520}	
1	5101760-F	Crankcase Breather	Element in valve cover, 4 inch round {4.8060}	
6	23515946-F	Spark Plug	[Being discontinued, check for availablity] Natural gas Engines {7.8700}	

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
ENGINE KITS			
1	DET60-32590IF-E	InFrame kit	Early rod bearing 1.710 width, 2.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Pre 1991, esn to 6R028698			
1	DET60-32590IF-L	InFrame kit	Late rod bearing 1.867 width, 2.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Pre 1991, esn to 6R028698			
1	DET60-32591IF-E	Inframe kit	Early rod bearing 1.710 width, 3.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Pre 1991, esn to 6R028698			
1	DET60-32591IF-L	Inframe kit	Late rod bearing 1.867 width, 3.5mm top ring, Std liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Pre 1991, esn to 6R028698			
1	DET60-32555IF-E	InFrame kit	Early rod bearing 1.710 width, 2.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32555IF-L	InFrame kit	Late rod bearing 1.867 width, 2.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32556IF-E	InFrame kit	Early rod bearing 1.710 width, 3.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32556IF-L	InFrame kit	Late rod bearing 1.867 width, 3.5mm top ring, TLC liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	DET60-32557IF-E	InFrame kit	Early rod bearing 1.710 width, 2.5mm top ring, TLC Liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32557IF-L	InFrame kit	Late rod bearing 1.867 width, 2.5mm top ring, TLC Liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32558IF-E	Inframe kit	Early rod bearing 1.710 width, 2.5mm top ring, TLC Liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-32558IF-L	Inframe kit	Late rod bearing 1.867 width, 2.5mm top ring, TLC Liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
Do not use in engines above sn 6R0408505			
1	DET60-30612-IF	Inframe kit	Late rod bearing 1.867 width, TLC Liner; choice of pan gaskets; LESS valve cover gasket, valve stem seals
1	11011	Pistonless rering kit	Pistonless (No crown, skirt, pin, retainers); LESS: pan gkt, valve cvr gsk, valve stem seals
For open end rod, groove upper half wide rod bearing (23515581)			
1	11011P	Pistonless rering kit	Pistonless (No crown, skirt, pin, retainers); With head bolts, cam bearings, injector orings, early pan gsk; LESS: valve cvr gsk, valve stem seals
For open end rod, groove upper half wide rod bearing (23515581)			
1	11010	Pistonless rering kit	Pistonless (No crown, skirt, pin, retainers) LESS: pan gsk, valve cvr gsk, valve stem seals
For closed end rod, no groove drilled rod bearings (23526142)			
1	11010-10P	Pistonless rering kit	Pistonless (No crown, skirt, pin, retainers); 0.010" u/s bearings
For closed end rod, no groove drilled rod bearings (23526142)			

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
1	11003	Inframe kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532883 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 15.0:1, Light pin 26mm (1.024") ID; Optional replacement can us heavy pin cyl kit (123532561) in sets			
1	11001	Inframe kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532561 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 15.0:1; Optional replacement for light pin in sets 2352883			
1	11005	Overhaul kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532561 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 15.0:1; Optional replacement for light pin in sets 2352883			
1	11004	Inframe kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532885 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 16.5:1, Light pin 26mm (1.024") ID; Optional replacement can us heavy pin cyl kit (123532562) in sets			
1	11002	Inframe kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532562 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 16.5:1; Optional replacement for light pin in sets 2352885			
1	11006	Overhaul kit	With head bolts, cam bearings, injector orings; LESS: pan gsk, valve cvr gsk, valve stem seals; 123532562 cyl kit, Rod brg 85mm journal, no groove
Steel crown articulated 16.5:1; Optional replacement for light pin in sets 2352885			
1	11012	Inframe kit	EGR Engines; Pistonless (No crown, skirt, pin, retainers); With injector orings, LESS: pan gkt, valve cvr gsk, valve stem seals
Rod bearing for 95mm journal (closed-end connecting rod), Both styles of main bearing thrust washers included			
1	11012P	Inframe kit	EGR Engines; Pistonless (No crown, skirt, pin, retainers); With head bolts, cam bearings, injector orings, late pan gsk; LESS: valve cvr gsk, valve stem seals
Rod bearing for 95mm journal (closed-end connecting rod), Both styles of main bearing thrust washers included			
CYLINDER KIT			
6	23532590-F	Cylinder kit	STD liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23519625) [23519624 piston kit, 23532468 liner kit, 23503747 rings]
Pre 1991, esn to 6R028698			
6	23532591-F	Cylinder kit	STD liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23519637) [23519635 piston kit, 23532468 liner kit, 23505729 rings]
Pre 1991, esn to 6R028698			
6	23532555-F	Cylinder kit	TLC liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23523951) [23519624 piston kit, 23531249 liner kit, 23503747 rings]
GK, GT, GU, TK: Under 470HP; Do not use in engines above sn 6R0408505			
6	23532556-F	Cylinder kit	TLC liner, 3.50mm top ring, 15:1 CR, large OD dome (repl 23532952) [23519635 piston kit, 23531249 liner kit, 23505729 rings]
GK, GU, TK; Do not use in engines above sn 6R0408505			
6	23532557-F	Cylinder kit	TLC liner, 2.50mm top ring, 15:1 CR, large OD dome (repl 23523954) [23519646 piston kit, 23531249 liner kit, 23503747 rings]
GK: 470 to 500 HP; Do not use in engines above sn 6R0408505			
6	23532558-F	Cylinder kit	TLC liner, 2.50mm top ring, 16.5:1 CR, large OD dome (repl 23524602) [23524601 piston kit, 23531249 liner kit, 23503747 rings]
MK; Do not use in engines above sn 6R0408505			
6	23537594-F	Cylinder kit	Steel crown articulated, 16.5:1 CR, light pin, 2.5mm top ring (OE# uses 3.0mm top ring) [repl 23532858]

Detroit Diesel 6067: B/G/M/P/T (5th digit in model number)			12.7L - 60 Series (Continued)	6 Cylinder Bore 130mm Stroke 160mm	Block: 8929656 Rod: 8929234, 8929236
6	123532562	Cylinder kit	Steel crown articulated 16.5:1, 2.5mm top ring, heavy pin 22mm (0.866") ID (125622885 crown and skirt, 123503747 rings [23532562; 23530602 piston assy, 23530668 piston kit]		
OE# uses 3.0mm top ring					
6	123532883	Cylinder kit	Steel crown articulated 15.0:1, 2.5mm top ring, light pin 26mm (1.024") ID (125612883 crown and skirt, 123503747 rings [23532883; 23530600 piston assy, 23532882 piston kit]		
6	123532561	Cylinder kit	Steel crown articulated 15.0:1, 2.5mm top ring, heavy pin 22mm (0.866") ID (125612883 crown and skirt, 123503747 rings [23532561; 23530600 piston assy, 23530666 piston kit]		
6	23530612-F	Cylinder kit	Steel crown articulated, 16.5:1, 2.5mm top ring, heavy pin 22mm (0.866") ID (23527791 crown and skirt, 23531251 rings) [23530612; 23530611 piston kit]		
EGR					
6	23519624-F	Piston kit	5.118 bore, 2.50mm top ring, 15:1 CR, large OD dome [23529667 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]		
6	23519635-F	Piston kit	5.118 bore, 3.50mm top ring, 15:1 CR, large OD dome [23519734 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]		
6	23519646-F	Piston kit	5.118 bore, 2.50mm top ring, 15:1 CR, large OD dome [23518681 dome, 23516681 skirt, 8929087 pin, 23519723H bearing kit]		
6	23524601-F	Piston kit	5.118 bore, 2.50mm top ring, 16.5:1 CR, large OD dome		
6	23532884-F	Piston kit	Steel crown, 16.5:1 CR, light pin, 2.5mm top ring (23530602 piston assy, 23530727 crown, 23521802 skirt, 23521649 pin, 23521781 retainers		
6	23530668-F	Piston kit	Steel crown, 16.5:1 CR, heavy pin, 2.5mm top ring (23530602 piston assy, 23530727 crown, 23521802 skirt, 23525168 pin, 23521781 retainers [repl 23529167, 23524597]		
6	23532882-F	Piston kit	Steel crown, 15:1 CR, light pin, 2.5mm top ring (23530600 piston assy, 23530599 crown, 23521802 skirt, 23521649 pin, 23521781 retainers		
6	23530666-F	Piston kit	Steel crown, 15:1 CR, heavy pin, 2.5mm top ring (23530600 piston assy, 23530599 crown, 23521802 skirt, 23525168 pin, 23521781 retainers		
6	23516681-F	Piston skirt	Ductile iron for standard cross head piston		
6	23521802-F	Piston skirt	Aluminum skirt for forged steel crown articulated piston		
6	23519723H-F	Bearing piston pin	Use with OEM and FPD style pistons; Set[(1) 23504942H top bushing, (2) 23519558 ear bushings] Has a hole drilled to fit the retaining pin on FPD pistons		
6	23519723-F	Bearing piston pin	Use only with OEM style pistons; Set [(1) 23504942 top bushing, (2) 23519558 ear bushings]		
6	8929087-F	Piston pin	For cross-head style piston, bolted to connecting rod [8929087]		
6	23521649-F	Piston pin	For articulated steel piston, 26mm ID, light pin		
6	23525168-F	Piston pin	For articulated steel piston, 22mm ID, heavy pin		
12	23521781-F	Retainer piston pin	For articulated steel piston		
12	8929337-F	Piston pin bolt			
12	8929504-F	Piston pin bolt spacer			
6	123528493	Piston cooling nozzle	[23528493]		
6	123506222	Bolt cooling nozzle	For 23528493 nozzle or plate [23506222]		

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
6	23503747-F	Ring set	130mm (5.118") bore, 2.50mm top ring, keystone compression rings, 1 cyl set [23503747; 8929844 top, 8929845 2nd, 23515500 oil; replaces 23525553, 23501575]
6	23505729-F	Ring set	130mm (5.118") bore, 3.50mm top ring, keystone compression rings, 1 cyl set [23504941 top, 8929845 2nd, 2351500 oil]
6	123531251	Ring set	130mm (5.118") bore, 3.0mm top ring (23530757 top, 8929845 mid keystone, 23515500 oil, 23529379 expander) [23531251]
EGR			
6	8929844-F	Ring single	5.118 bore, compression, top 2.50mm
6	23504941-F	Ring single	5.118 bore, compression, top 3.50mm
6	8929845-F	Ring single	5.118 bore, compression, 2nd groove
6	23515500-F	Ring single	5.118 bore, oil control with expander
6	23529379-F	Ring single	5.118 bore, oil ring expander
6	23532468-F	Cylinder liner	130mm (5.118") bore, Liner and seals, Std non TLC (23532361 liner, 892903 crevice seal, 8929176 D ring seal) [repl 23505278]
6	23532361-F	Cylinder liner	130mm (5.118") bore, Liner only, Std non TLC, liner only [repl 8929442]
6	123531249	Cylinder liner kit	130mm (5.118") bore, Liner and seals, TLC (123530226 liner, 18929013 crevice seal, (2) 18929176 D ring seal) [23531249; replaces 23523948, 23514285]
6	23530226-F	Cylinder liner	[Not available seperatly, order 23531249] 130mm (5.118") bore, Liner only, TLC [replaces 23523392]
6	111003	Cylinder liner oring kit	Contains crevice seal and D-rings [(1) 18929013, (2) 18929176]
6	18929013	Cylinder liner oring	Crevice seal, black [8929013]
12	18929176	Cylinder liner seal	D-ring, blue [8929176]
6	23525500-F	Insert counterbore	Upper counterbore repair
	20044-F	Shim counterbore	Flange shim, block counterbore 0.031 "
	20045-F	Shim counterbore	Flange shim, block counterbore 0.062 "
	S60.030 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060 " stainless steel
	S60.060 SHIM-B	Shim counterbore	Flange shim, block counterbore 0.060 " stainless steel
	20042-F	Lower Block Bore Sleeve	
BEARINGS			
1	123531604	Bearing kit lower end	Std; Used with cross-head piston, bolt on conn rods AND 43.43mm (1.7100") OAL rod bearings [(6) 8929670, (1) 8929680, (2) 8929085, (6) 8929710]
6067GK60: esn to 6R188251 (open end rods, July 1994)			
1	123531605	Bearing kit lower end	Std; Used with cross-head piston, bolt on conn rods AND 47.43 mm (1.8670") OAL rod bearings [(6) 18929670, (1) 18929680, (2) 18929085, (6) 123515581] [23531605, 23519904]
6067GK60: esn 6R188252 and Up (open end rods)			
	123531605-10	Bearing kit lower end	0.010" u/s, Used with cross-head piston, bolt on conn rods AND 47.43 mm (1.8670") OAL rod bearings [(6) 18929671, (1) 18929681, (2) 18929085, (6) 123515582] [23519905 set]
1	123531606	Bearing kit lower end	Std, Used with articulated steel piston, closed end conn rods, 85mm rod journal [(6) 18929670, (1) 18929680, (2) 18929085, (6) 123526142] [23531606, 23524260]
Pre EGR (esn prior to 06R0718942, except 06R0664502 - 06R0664578)			
	123531606-10	Bearing kit lower end	0.010" u/s, Used with articulated steel piston, closed end conn rods, 85mm rod journal [(6) 18929671, (1) 18929681, (2) 18929085, (6) 123527065]

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
1	123535280	Bearing kit lower end	Std, Used with closed end connecting rods, 95mm journal rod journal [(7) 8929670, (1) 23535010, (2) 23530554, (2) 23530555, (6) 23526141]
OE style, can be used on all EGR model engines regardless of thrust bearing design (esn 06R0664502 - 06R0664578; 06R0718942 and Up)			
1	123533692	Bearing kit lower end	Std, Used with closed end connecting rods, 95mm journal rod journal, Late style (4) directional tw design mains [23533691 main set, (6) 23526141 rod pair]
EGR 06R0762048 and up			
DET60MAINS01	Main bearing type 1	Engines with 2-piece thrust washer [OE# 23535013]	
Used with bolt on connecting rods: All; Used with closed end connecting rods: Pre EGR			
1	23535013-F	Bearing main set	Std; Contains: (6) 8929670 main, (1) 23535012 thrust bearing/washer kit
1	23535012-F	Bearing main thrust	Std; Contains: (1) 8929680 thrust pair [23533252 lower / 23533263 upper], (2) 8929085 thrust washer
6	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
6	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
6	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
6	18929673	Bearing main pair	0.762mm (0.030") [8929673 pair; (1) 23533249 lower, (1) 23533256 upper]
1	18929680	Bearing thrust pair	Std, flanged [8929680 pair; (1) 23533252 / 8929082 lower, (1) 23533263 / 8929083 upper]
1	18929681	Bearing thrust pair	0.254mm (0.010"), flanged [8929681 pair; (1) 23533251 lower, (1) 23533262 upper]
1	18929682	Bearing thrust pair	0.508mm (0.020"), flanged [8929682 pair; (1) 23533250 lower, (1) 23533261 upper]
1	18929683	Bearing thrust pair	0.762mm (0.030"), flanged [8929683 pair; (1) 23533249 lower, (1) 8929688 upper]
1	8929085S-F	Thrust washer set	Position upper; contains (2) 8929085
2	18929085	Thust washer	Std, single
2	18929697	Thust washer	0.127mm (0.005"), single
2	18929698	Thust washer	0.254mm (0.010"), single
DET60MAINS02	Main bearing type 2	Engines without machined notches in main bearing caps, 4 thrust washers (early style tw)	
EGR prior to esn 06R0762048			
1	23535011-F	Bearing main set	Std; Contains: (6) 8929670 main, (1) 23535010 thrust bearing/washer kit
1	23535010-F	Bearing main thrust	Std; Contains: (1) 23533263 thrust upper, (1) 23532926 thrust lower, (4) 8929085 thrust washer
6	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
1	23533263-F	Bearing main half	Std, Thrust, Upper position
	23533262-F	Bearing main half	0.254mm (0.010"), Thrust, Upper position
	23533261-F	Bearing main half	0.508mm (0.020"), Thrust, Upper position
1	23532926-F	Bearing main half	Std, Thrust, Lower position
	23533255-F	Bearing main half	0.254mm (0.010"), Thrust, Lower position
	23533254-F	Bearing main half	0.508mm (0.020"), Thrust, Lower position

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
2	8929085S-F	Thrust washer set	Position upper; contains (2) 8929085
4	18929085	Thust washer	Std, single
DET60MAINS03	Main bearing type 3	Engines with machined notches in main bearing caps, 4 thrust washers (directional tw)	
EGR after esn 06R0762048			
1	23533691-F	Bearing main set	Std; Contains: (7) 8929670, (2) 23530554, (2) 23530555
7	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
2	123530554	Thrust washer	Front, used with plain main thrust [23530554]
esn 06R0762048 and up			
2	123530555	Thrust washer	Rear, used with plain main thrust [23530555]
esn 06R0762048 and up			
6	18929710	Bearing rod pair	Std, 43.43mm (1.7100") OAL (former style) [8929553 upper, 8929554 lower]
6067GK60: esn to 6R188251 (open end rods, July 1994)			
6	8929711-F	Bearing rod pair	0.254mm (0.010"), 1.7100 or 43.43mm OAL (former style) [8929714 upper, 8929715 lower]
6	8929712-F	Bearing rod pair	0.508mm (0.020"), 1.7100 or 43.43mm OAL (former style) [8929716 upper, 8929717 lower]
6	8929713-F	Bearing rod pair	0.762mm, (0.030") 1.7100 or 43.43mm OAL (former style) [8929718 upper, 8929719 lower]
6	123515581	Bearing rod pair	Std, Used with cross-head piston, bolt on conn rods, 47.43mm (1.8670") OAL, grooved upper half [23515581 pair; 23515586 upper, 23515585 lower]
6067GK60: esn 6R188252 and Up (open end rods)			
6	123515582	Bearing rod pair	0.254mm (0.010"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515582 pair; 23515588 upper, 23515587 lower]
6	123515583	Bearing rod pair	0.508mm (0.020"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515583 pair; 23515590 upper, 23515589 lower]
6	123515584	Bearing rod pair	0.762mm (0.030"), open end rods, 47.43mm (1.8670") OAL, grooved upper half [23515584 pair; 23515592 upper, 23515591 lower]
6	123526142	Bearing rod pair	Std, Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no grv [23526142 pair, 23535745 / 23526079 half]
Use with closed end connecting rods, small journal; Pre EGR (esn prior to 06R0718942, except 06R0664502 - 06R0664578)			
6	123527065	Bearing rod pair	0.254mm (.010") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove [23527065 pair, 23527062 half]
6	123527066	Bearing rod pair	0.508mm (.020") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove [23527066 pair, 23527063 half]
6	123527067	Bearing rod pair	0.762mm (.030") Used with articulated steel piston, closed end con rods, 85mm rod jnl; 47.43mm (1.867") OAL, oil hole in both halves, no groove[23527067 pair, 23527064 half]

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
6	123526141	Bearing rod pair	Std, closed end rod, 95mm journal, drilled upper and lower [23526141; Contains (2) 23535741; replaces 23524857, marked 23522882]
Use with closed end connecting rods, large journal EGR models (esn 06R0664502 - 06R0664578; 06R0718942 and Up)			
6	23533567-B	Bearing rod pair	0.254mm (0.010"), closed end rod, 95mm journal [Contains (2) 23532253]
6	23533568-B	Bearing rod pair	0.508mm (0.020"), closed end rod, 95mm journal [Contains (2) 23532254]
6	MCB7133-B	Bushing con rod	For closed end drilled rod only
Model year 1998 and newer			
7	18929690	Bearing cam	Std, pair [8929690]
7	8929691-F	Bearing cam	0.254mm (0.010"), pair
7	8929692-F	Bearing cam	0.508mm (0.020"), pair
7	8929693-F	Bearing cam	0.762mm (0.030"), pair
GASKET & SEALS			
1	123532332	Set overhaul	Pre EGR; Does not include: Valve cover gasket, valve stem seals, pan gasket, crankshaft seals [23532332, replaces 23512691]
1	23536443-B	Set overhaul	EGR applications; Does not include: Valve cover gasket, valve stem seals, pan gasket, crankshaft seals [23536443]
1	123532333	Set cylinder head	Pre EGR; Does not include: Valve cover gasket, valve stem seals [23532333; replaces 23526852, 23501572]
1	123536442	Set cylinder head	EGR (EPA 2002) applications; Does not include: Valve cover gasket, valve stem seals [23536442]
1	1NU1003	Set conversion	LESS: crankshaft seals, oil pan gasket
G1		UPPER GASKETS	
1	23532298-F	Gasket cylinder head	ML7(TM) head gasket design, metal sandwich-type gasket [23538406 gasket, with instruction sheet] [replaces 23532045, 23530421, 23522588]
1	123516322	Gasket valve cover	Gray silicone, old style; For 1-pc cover with 4-bolts (also used: 2-pc and 3-pc: lower to head) [23516322, repl 8929863]
1-pc cover: approx. esn to 06R0512190; 2-pc cover: approx. esn to 06R0585165			
1	123522269	Gasket valve cover	Black polyacrylate, new style; For 1-pc cover with 10-bolts (also used: 2-pc and 3-pc: lower to head) [23522269]
1-pc cover: approx. esn 06R0512191 and up; 2-pc cover: approx. esn 06R0585166 and Up			
1	18929803	Gasket valve cover	106.68" circumference; diamond shaped 0.146" thick; 2-pc upper to lower; 3-pc intermediate to lower
esn to 06R0130014			
1	23511991-F	Gasket valve cover	106.68" circumference; diamond shaped 0.186" thick; 2-pc upper to lower; 3-pc intermediate to lower
esn 06R0130015 and Up (June 1993)			
1	23506153-F	Gasket valve cover	98.38" circumference; diamond shaped 0.146" thick; 3-pc upper to intermediate; Use with OE# 23505973 cover
esn to 06R0130014			
1	23511992-F	Gasket valve cover	98.38" circumference; diamond shaped 0.186" thick; 3-pc upper to intermediate; Exc.OE# 23505973
esn 06R0130015 and Up (June 1993)			
4	8929255-F	Isolator rckr cvr bolt	1.735 OD; One piece rubber
1-pc cover only, approx. esn to 06R0281612 (pre 1996) isolator and washer are sepearate pieces			
4	5104514-F	Washer rocker cover	
1-pc cover only, approx. esn to 06R0281612 (pre 1996) isolator and washer are sepearate pieces			

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
4	23517912-F	Isolator rckr cvr bolt	1.756 OD; One piece rubber with metal washer
1-pc cover only, approx. esn 06R0281613 to 06R0512190			
10	23517911-F	Isolator rckr cvr bolt	One piece rubber with metal washer [replaces 8929559 isolator and 8929560 washer]
2-pc cover: approx. esn 06R0585165			
10	123522271	Isolator rckr cvr bolt	Bolt and isolator 1-pc assembly [23522271]
1-pc cover: approx. esn 06R0512191 and Up; 2-pc cover: approx. esn 06R0585166 Up			
G5		PAN GASKETS	
1	18929102	Gasket oil pan	Old style; standard oil pan; gray silicone [8929102]
esn to 06R0502358 (to April 1999)			
1	123522279	Gasket oil pan	New style; black, Use for oil pan without cord modified seal system; effective April 1999 [23522279; New number 23539104]
esn 06R0502359 and Up			
G3		CRANK SEALS	
1	123518355	Seal crankshaft front	Seal and sleeve [23518355, replaces 23513485]
1	8923655-F	Sleeve crankshaft front	Used with early seal: 23509591, 23501545
1	123516969	Seal crankshaft rear	Seal and sleeve, dry housing, single lip, teflon [23516969, contains 23501544 seal; replaces 23513577]
1	123519651	Seal crankshaft rear	Seal and sleeve, dry housing, Unitized assembly [23519651]
esn 06R0491683 and Up			
1	23513578-F	Seal crankshaft rear	Seal and sleeve, wet housing, double lip wrap around
1	8929750-F	Seal crankshaft rear	Teflon, Std, RH rotation (5.187 shaft, 6.507 OD) [marked L327958TA0]
1	23515145-F	Gasket flywheel cover	Large hole, starting motor hole cover, housing inspection cover
CAMSHAFT			
1	671671	Timing bull gear	[8929168]
DDEC II			
1	23513559R	Timing bull gear	Remanufactured, assembly [23513559]
DDEC III, DDEC IV (Pre-EGR)			
1	8929430-B	Bearing bull gear	Bearing assembly
1	8929108-F	Bushing cam gear	
7	8929129-B	Bolt cam journal cap	M12 x 1.75 x 65
6	8929587-B	Bolt cam journal cap	M12 x 1.75 x 110.0
2	8929588-B	Stud cam journal cap	M12 x 1.75 x 123
2	23500708-B	Nut cam journal cap	M12 x 1.75
	8929740-F	Seal ring	Cam bearing cap to cylinder head; .134 x .074 x .480 {1.3156, 1.7042, 1.8160}
Prior to May 1999: Front and Rear cap; May 1999 and up: Rear cap			
1	23522975-F	Seal ring	Cam bearing cap to cylinder head, racetrack {1.7042, 1.8160}
May 1999 and up: Front cap			
1	123521935	Seal ring	Cam thrust plate to cylinder head, 2 bolt [23521935; replaces 23517334]
prior to esn 06R0352129			
1	23521894-F	Seal ring	Cam thrust plate to cylinder head, 3 bolt {1.7075}
esn 06R0352129 and Up			
1	23528491-F	Seal ring	Cam thrust plate to gear housing, perimeter seal (repl 8929318) {1.7075}
1	123527416	Seal ring	Seal cam cover perimeter [23527416]
EGR			
2	123521111	Seal rocker shaft	Rocker shaft stud to head (Stat-o-seal) [23521111]
6	23538247PR-B	Pin and roller kit	Exhaust rocker arm; Ceramic pin and roller
6	23532937PR-B	Pin and roller kit	Intake rocker arm; Ceramic pin and roller

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
6	23513939PR-B	Pin and roller kit	Injector rocker arm; Ceramic pin and roller
	8929059-F	Bushing rocker arm	Service bushing, Narrow, 15mm wide; must be finished to final size after installation
	8929536-F	Bushing rocker arm	Service bushing, Wide, 20mm wide; must be finished to final size after installation
12	23520819-F	Adjusting screw	Exhaust valve adjusting {1.8135}
12	23520818-F	Adjusting screw	Intake valve adjusting {1.8135}
6	23520820-F	Adjusting screw	Injector adjusting {1.8135}
30	23514371-F	Nut rocker arm	Arm adjusting screw; 3/8 - 24 {1.8135}
30	5138643-F	Button rocker arm	Arm adjusting screw (1.8135)
1	5103646-F	Breather Seal Ring	Seal DC rocker cover breather {1.8450, 4.8057}
VALVE TRAIN			
1	22-60SERIES	Cylinder head	Remanufactured complete, cast# 8929620, 8929872
Pre EGR engine			
1	11090	Valve train kit	MY 1991-2001 (Pre EGR); Exhaust valve Identification H; Includes: Valves, guides, springs, locks, rotators, valve seals
12	23501576-B	Valve intake kit	Includes 23529629 valve, valve seal, keeper, rotocap
12	123529629	Valve intake	1.7320 head dia, 0.3421" stem dia, 8.4980 length, 30 degree [23529629, 8929589]
12	23501577-F	Valve exhaust kit	Identification U; Pre MY 1991; Includes 8929590 valve, valve seal, keeper & rotocap [NOTE: do not mix former and current exhaust valves]
12	8929590-F	Valve exhaust	Identification U; Pre MY 1991; 1.5760 head dia., 0.3421 stem dia., 8.4980 length, 30 degree [NOTE: do not mix former and current exhaust valves]
12	123507504	Valve exhaust kit	Identification H; MY 1991-2001 (Pre EGR) Includes 123524521 valve, valve seal, keeper, rotocap [NOTE: do not mix former and current exhaust valves] [23507504]
12	123524521	Valve exhaust	Identification H; MY 1991-2001 (Pre EGR) [NOTE: do not mix former and current exhaust valves] [23524521, 23506350]
12	13001	Valve exhaust	1.556 head dia, 8.497 OAL, 0.3429 stem dia, 30 deg, 1G, Iconel [23529596]
With EGR, from 2003			
48	18929573	Valve lock	[8929573]
24	123533552	Valve guide	Powdered metal replacement [23533552]
24	140-8591	Valve guide	Std, 14.30mm to 14.32mm OD; 0.3453 ID, 0.5635 OD, 4.000 length; Guide bore reaming is recommended prior to installation [23518571]
24	23518572-F	Valve guide	.005" o/s, 14.43mm to 14.45mm OD [supercedes to 23538401]
24	123523930	Valve stem seal	(not included in gasket sets) [23523930; replaces 8929072]
24	18929415	Valve spring	2.91" free length [8929415; replaced by 23535296]
Intake and Exhaust Non-EGR, Intake EGR			
12	23530359-F	Valve spring	3.25" free length, Yellow stripe [replaced by 23535122]
Exhaust EGR			
24	18929105	Rotocap	[8929105]
24	8929076-F	Valve spring seat	0.087" - 0.094" thick (2.20mm - 2.40mm)
	8929634-F	Valve spring seat	0.010 thicker (2.45mm - 2.65mm thick) [8929634]
	8929635-F	Valve spring seat	0.020 thicker (2.70mm - 2.90mm thick) [8929635]
	8929636-F	Valve spring seat	0.030 thicker (2.95mm - 3.15mm thick) [8929636]
12	8929127-F	Valve insert	Intake, Std (7.155mm-7.257mm thick) 1.8195 OD, 1.5710 ID, .2830 depth
	8929625-F	Valve insert	Intake, 0.010 (0.254mm) reduced thickness (6.901mm-7.003mm thick)
	8929626-F	Valve insert	Intake, 0.020 (0.508mm) reduced thickness (6.647mm-6.749mm thick)
	8929627-F	Valve insert	Intake, 0.030 (0.762mm) reduced thickness (6.393mm-6.495mm thick)
	18929127-005	Valve insert	Intake 0.005-inch Oversize OD
	18929127-010	Valve insert	Intake 0.010-inch Oversize OD

Detroit 12.7L - 60 Series Diesel (Continued) 6067: B/G/M/P/T (5th digit in model number)		6 Cylinder Bore 130mm Stroke 160mm	Block: 8929656 Rod: 8929234, 8929236
	18929127-020	Valve insert	Intake 0.020-inch Oversize OD
12	18929126	Valve insert	Exhaust; Std (6.261mm-6.363mm thick) 1.6285 OD, 1.3570 ID, .2490 depth [8929126]
	8929628-F	Valve insert	Exhaust, 0.010 (0.254mm) reduced thickness (6.007mm-6.109mm thick)
	8929629-F	Valve insert	Exhaust, 0.020 (0.508mm) reduced thickness (5.753mm-5.855mm thick)
	8929630-F	Valve insert	Exhaust, 0.030 (0.762mm) reduced thickness (5.499mm-5.601mm thick)
	18929126-010	Valve insert	Exhaust 0.010-inch Oversize OD
	18929126-020	Valve insert	Exhaust 0.020-inch Oversize OD
	18929126-030	Valve insert	Exhaust 0.030-inch Oversize OD
6	123501580	Injector tube	Used with N2 injector; DDEC-II through IV; Tube with seal ring 23515470 [23501580]
6	23533148-B	Injector tube	Used with N3 injector, DDEC-V, MY 2004; Threaded, stainless steel (requires 23533147 seal ring) [23533148]
6	23534745-B	Injector tube	Used with E3 injector; DDEC-VI, MY 2007; Threaded, stainless steel (requires 23534743 seal ring) [23534745]
6	23515470-F	Seal ring injector tube	Used with N2 injector; For 23501580 tube [23515470]
6	5104701-F	Seal injector tube	Injector tube auxillary ring, Large upper oring [5104701]
Use with N2 injector tube			
6	23511870-B	Seal injector tube	Injector tube auxillary ring, Lower graphite tip ring for injector [23511870]
Use with N2 injector tube			
6	23533147-B	Seal ring injector tube	Used with N3 injector; For 23533148 tube [23533147]
6	23534743-B	Seal ring injector tube	Used with E3 injector; DDEC-VI, MY 2007; For 23534745 tube [23534743]
	23536862-B	Shim injector tube	0.007 thickness, no notch on ID (use with E3 stainless steel tube when head has been resurfaced)
	23536863-B	Shim injector tube	0.012 thickness, 1 notch on ID (use with E3 stainless steel tube when head has been resurfaced)
	23536864-B	Shim injector tube	0.018 thickness, 2 notches on ID (use with E3 stainless steel tube when head has been resurfaced)
1	HBS002-R	Bolt cylinder head set	60 Series; Incl: (38) 23530768 bolts
38	123530768	Bolt cylinder head	[23530768]
38	8929328-F	Washer head bolt	
1	8926993-F	Freeze plug	1/4 X 18; Recessed socket head
CRANKSHAFT			
1	8929239-Q	Crankshaft	12.7L, 12 hole; Flange: Centering ring, 12 bolt holes, 1 keyway; Snout: keyway for gear mounting
esn -> 6R188251 (July 1994)			
1	23515598-B	Crankshaft	12.7L, 6 hole (late, wide connecting rod bearings, 85mm rod journal) [23515598]
esn 6R188252 and Up Pre-EGR (engine may have been updated to large journal, must use wide rods also)			
1	23515599-F	Crankshaft	12.7L, 12 hole (late, wide connecting rod bearings, 85mm rod journal) [23515599]
esn 6R188252 and Up Pre-EGR (engine may have been updated to large journal, must use wide rods also)			
1	23503707-F	Ball bearing	Position Clutch pilot
1	23525990-F	Damper vibration	Vibration, 13.5" diameter, one-piece [repl 8929502]
6	5133981-F	Washer	Vibration damper
CONNECTING ROD			
6	8929236RX	Connecting rod	Remanufactured, open-end bolt-on, 12.7L narrow bearing (former style crankshaft with 0.13 - 0.15 in radial fillets) [8929236; Cast 8929234]
6	R23515593	Connecting rod	Remanufactured, open-end bolt-on, 12.7L wide bearing (current style crankshaft with 0.21 - 0.23 in radial fillets) [23515593; Cast 8929234]
6	R23523195	Connecting rod	Remanufactured, closed-end, 12.7L non-drilled [23523195, Cast 23521386]

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
6	123526078	Connecting rod	New, Non-EGR engines, closed end, with drilled oil passage (rod bearing must have oil hole) [23526078, R23526078]
12	8929355-F	Bolt connecting rod	M14 x 1.5 x 108
12	8929019-F	Nut connecting rod	M14 x 1.5
OIL / LUBE SYSTEM			
1	23505886-G	Oil pump	Gear driven
model year 1991 and Up: Type 198			
1	641212	Oil pump	Gear driven [23527448]
Type: 232			
5	5127978-F	Bushing oil pump shaft	Oil pump; 3 used in body, 2 used in cover {4.1050, 4.1220}
1	5126327-F	Spring oil pump	Outlet bypass valve and oil pressure regulator, 2.96 free length {4.1620, 4.1690}
2	18929344	Gasket oil pump tube	Pickup-inlet tube to pump [8929344]
Pre 1991 model year: Pickup-inlet tube to pump, Outlet tube to pump			
1	123505992	Gasket oil pump tube	Pickup-inlet tube to pump [23505992]
model year 1991 and Up			
2	18929347	Gasket oil pump tube	Outlet tube to block [8929347]
1	23505891-B	Oring oil pump tube	Outlet tube to pump, 1.109" ID [23505891]
model year 1991 and Up			
1	23505892-B	Oring oil pump tube	Outlet tube to relief valve, 0.859" ID [23505892]
model year 1991 and Up			
2	15117269	Gasket oil regulator	Outlet pipe, junction block (triangle shape) [5117269]
Oil pressure regulator mounting, Oil pressure relief valve mounting			
1	8922740-F	Valve oil pressure regul	Low pressure {4.1700}
1	8547626-F	Oil Cooler	8 plate {4.4001}
Pre 1991 model year			
1	123522415	Oil cooler	11-plate core [23522415; replaces 52474367]
model year 1991 and Up			
1	123522416	Oil cooler	9-plate [23522416]
model year 1991 and Up			
1	NLS0060	Set oil cooler	Oil cooler installation; for cooler with filter base [Contains: 23506247 gsk, 23505902 seal, 8929289 seal, (3) 23508392 seal]
1	8929348-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to block) {4.4030}
Pre 1991 model year			
1	23506247-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to oil filter adaptor) {4.4030}
model year 1991 and Up			
2	8929280-F	Seal ring	Oil cooler core; sqare cut 1.875" ID x 0.138" x 0.138" {4.4040} [8929280]
Pre 1991 model year			
3	123508392	Seal oil cooler	Oil filter adapter to block; Square cut 1.234" ID x 0.135" x 0.135" [23508392]
model year 1991 and Up: qty 1 also used for Adaptor to block			
2	8929289-F	Seal ring	Oil cooler housing outlet neck to block; Oring 2.734" ID x 0.139" thick {4.4055} [8929289]
Pre 1991 model year: qty 2 used; model year 1991 and Up: qty 1 used			
1	8929340-F	Seal ring	Oil filter adapter, bypass {4.2291} [8929340]
Pre 1991 model year			
1	8929341-F	Seal ring	Oil filter adapter, square packing {4.2291} [8929341]
Pre 1991 model year			

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
1	8929342-F	Seal ring	Oil filter adapter, figure 8 shape {4.2291} [8929342]
Pre 1991 model year			
1	23532850-B	Seal oil cooler	Oil filter adapter to block, bypass; Square cut, 2.625" ID [23532850]
model year 1991 and Up			
1	8929302-F	Gasket oil filler	Fill tube adapter, 4 hole {4.5007, 4.5080}
1	5117362-F	Oil filler cap	Turn tight, 2 diameter
1	5113825-F	Chain oil filler cap	20 length {4.5030}
1	5121989-F	Chain oil filler cap	6.5 length {4.5030}
1	23513842-F	Washer copper	Oil gauge adapter {4.6020}
10	23517242-F	Isolator bushing	Oil pan {4.7001}
10	11504571-F	Bolt	Oil pan {4.7001}
	123522281	Isolator assembly	Assembly: 1-pc bolt, isolator, spacer [23522281]
10 used Pre-EGR; 5 used EGR			
	123530961	Isolator assembly	Assembly: 1-pc bolt, isolator, spacer [23530961]
5 used EGR			
FUEL / INJECTOR			
6	5234785R-P	Injector reman	Electronic; DDEC I
6	5234795R-P	Injector reman	Electronic; DDEC II
6	5234940R-P	Injector reman	Electronic; DDEC II
6	5234945R-P	Injector reman	Electronic; DDEC II
6	5234970R-P	Injector reman	Electronic; DDEC II
6	5235550R-P	Injector reman	Electronic; DDEC III
6	5235575R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5235600R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5235695R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5235915R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5236952R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5236977R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5236980R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237042R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237045R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237099R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237466R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237650R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237820R-P	Injector reman	Electronic; DDEC III, DDEC IV [replace 5237784R]
6	0414703002R-P	Injector reman	N3, DDEC V; 6 hole, 146 deg, 7.70 flow [R414703002, 0-414-703-002, 414-703-002, 0986-441-028]
6	5234699K-B	Injector oring kit	Internal and external, Includes MCBS60INJ, (2) 5234224 solenoid spacer seal, 4991539 solenoid valve stop oring, 5234701 internal oring
DDEC-II, III, IV			
1	S60INJKIT	Injector oring kit	External, for 1 injector, Contains: 5234702 upper, (2) 5234699 lower, 5104701 tube auxiliary large, 23511870 tube auxiliary small graphite tip ring
DDEC-II, III, IV			
1	11000	Injector oring kit	External, for 6 injectors, Contains: 5234702 upper, (2) 5234699 lower
DDEC-II, III, IV			

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
1	123535700	Injector seal kit	External, for N3 type injector; Includes external orings [23535700]
DDEC-V, N3 injector, MY 2004 (Any time an injector is removed, all three injector orings, injector washers, and hold-down crab bolt must be replaced)			
6	23537111-F	Injector seal kit	External, for N3 type injector; Includes external orings, tip gasket (washer), clamp bolt and washer [23537111]
DDEC-V, N3 injector, MY 2004			
1	5234702-F	Injector oring	Upper; Former style used 2 upper, Current style uses 1 upper {2.1040}
DDEC-II, III, IV, V			
2	5234699-F	Injector oring	Lower
DDEC-II, III, IV			
6	18929393	Bolt	For Injector clamp hold-down crab, M10 x 1.5 x 70.0 [8929393]
6	123535699	Washer	Washer injector hold down clamp [23535699]
1	123532981	Fuel pump	Fuel transfer pump, Late style air compressor driven [23532981]
1	23505249-F	Fuel pump coupling	For high capacity fuel pump {2.2230}
1	8929479-F	Fuel pump coupling	For std capacity fuel pump {2.2230}
1	23506558-F	Fuel pump drive	For high capacity fuel pump {2.2292}
1	23511964-F	Fuel pump drive	For std. capacity fuel pump {2.2292}
1	8929787-F	Fuel pump hub	15.875mm ID {2.2292}
1	8929480-F	Fuel pump hub	12.70mm ID {2.2292}
1	23506546-F	Fuel pump gear	Drive gear; .375 {2.2087, 2.2088}
1	23511959-F	Fuel pump gear	Driven gear; .275 {2.2087, 2.2088}
1	23506545-F	Fuel pump drive shaft	Drive shaft {2.2087, 2.2088}
1	23506549-F	Fuel pump drive shaft	Driven shaft {2.2087, 2.2088}
4	8923526-F	Bearing fuel pump	Fuel pump shaft {2.2060}
1	5150193-F	Gasket fuel pump mtg	
Early: Fuel pump to drive assembly			
1	23505248-F	Gasket fuel pump	Fuel pump mounting {2.2007}
Late: Fuel pump to drive assembly OR mount			
1	123533010	Seal ring	Fuel pump mounting, square cut, 2.70-inch ID [23533010]
EGR			
1	23506553-F	Plug fuel pump body	1/8-27 {2.2010}
1	23506563-F	Fuel pump check valve	Kit, relief valve fuel pump; contains: valve (8923528), spacer (23506560), pin (23506564), cap (23506555), seal (23506556), spring (23506557) [23506563]
1	8923528-F	Fuel pump check valve	Injector check valve {2.2130}
1	23506560-F	Spacer fuel pump valve	{2.2130}
1	23506564-F	Pin fuel pump valve	Relief valve shear pin {2.2130}
1	23506557-F	Spring fuel pump valve	{2.2160}
1	23506555-F	Plug fuel relief	Pump relief valve {2.2170}
1	23506556-F	Seal fuel pump valve	Relief valve seal ring {2.2180}
1	23524657-F	Oring	Fuel water separator {2.3390}
1	9411502-F	Retaining ring	Mechanical governor weight {2.7470}
1	123516993	Check valve fuel	Fuel drain check valve, 3/8 NPTF female #6 SST [23516993]
1	23535129-B	Check valve fuel	Fuel drain check valve, M14 ISO male #6 SST [23535129]
DDEC V			

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
COOLING SYSTEM			
1	23509067RX	Water pump	Remanufactured; Front mount, gear driven, one outlet, cast 23505018, 8929511 [23509067, 23514989, 23505019, 8929509]
prior to esn 06R037024 (12/1990)			
1	7122X-BP	Water pump	Remanufactured, rear mount, Standard flow; 1/4" pipe ports, 7 vane; cast 23516417, 23505894 [23517028, 23516524, 23516417, 23509068, 23505895]
esn 06R037024 to 06R0579833			
1	123522707	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, square-cut seal groove (green), 6 vane high capacity impeller, 3/8 pipe ports; cast 23517027 [23522707, 23518215, 23522436]
esn 06R037024 to 06R0579833			
1	23526039-G	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, round o-ring seal groove (blue), 6 vane high capacity impeller, 3/8 pipe ports; cast 23522721 [23526039, 23524729]
esn effective 06R0579834 to EGR			
1	23532542-G	Water pump	EGR, vertical inlet; cast 23530427 [23535017, 23532542, 23531257, 23531245]
1	23532543-G	Water pump	EGR, horizontal inlet; cast 23530429 [23535018, 23535016, 23532543, 23531305, 23531258, 23531246]
1	8929158-F	Seal ring water pump	Water pump to gear case; front mounted pump with round seal oring, 0.139" x 5.539" ID {5.1001, 5.1032}
to sn 06R016593: pump body 8929511			
1	23520377-F	Seal ring water pump	Water pump to gear case; front or rear mounted with square cut seal ring, viton, color coded green {5.1001
front mounted with pump body 23505018; rear mounted esn before 06R0579834			
1	23526038	Seal ring water pump	Water pump to gear case; rear mounted with round seal oring, color coded blue, 0.139" x 5.234" ID {5.1001}
esn 06R0579834 to EGR			
1	123527272	Seal ring water pump	Water pump mounting, round [23527272]
1	123527385	Seal ring	Water pump elbow, square cut [23527385]
1	23529962-F	Water pump kit	Repair, bearing, seals, seal rings, bearing retainer {5.1002} [replaces 23509105, 23505484, 23501579]
1	23507073-F	Gasket water pump	For front mounted pump {5.1010}
1	8922383-F	Water pump cover	Non metallic {5.1031, 5.1235}
1	23512048-F	Oring	Water pump cover; Gear case mounted pumps {5.1032}
1	8922407-F	Retaining ring	Fresh water pump cover {5.1032, 5.1236}
1	8929157-F	Water pump shaft	Front mounted pumps, threaded end {5.1050}
1	23505896-F	Water pump shaft	Gear case mounted pumps, drilled and tapped end {5.1050}
1	8929334-F	Key woodruff	Fresh water pump shaft, 4 x 5, Front mounted pumps, shaft with threaded end {5.1050}
1	8929422-F	Bearing water pump	Water pump shaft {5.1070}
1	8929427-F	Retaining ring	Water pump bearing and seal {5.1071}
1	8929512-F	Impeller	Use with front mounted pumps {5.1110}
1	23507913-B	Impeller	Use with rear mount, standard flow, 7-vane, cast iron {5.1110}
1	23517973-F	Impeller	Use with rear mount, high flow 6-vane, cast iron {5.1110}
1	8929134-F	Seal	Water pump shaft, lip type {5.1130}
1	23522433-F	Seal	Water pump shaft, unitized seal [23528191, 23519204, 23519204, 23518316, 23508802, 8929148] {5.1130}
1	8929135-B	Gear water pump	RH, 61 teeth; use with front mount pump (shaft keyed and locknut) {5.1190}
1	23505910-B	Gear water pump	RH, 61 teeth; use with rear mount pump (shaft drilled for bolt) {5.1190}
1	11509584-F	Lock nut	Water pump gear, Front mounted pumps, shaft with threaded end {5.1190}

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
1	8929510-F	Seal ring water pump	Water pump cover to body, front mounted pumps with round seal oring {5.1236}
to sn 06R016593: covers 8929513, 8929528, 8929539, 8929651			
1	23505024-F	Seal ring water pump	Water pump cover to body, front or rear mounted with square cut seal ring {5.1236}
used with covers 23505020, 23505021, 23505022, 23505023			
2	23503827-F	Thermostat	160F
2	23503825-EP	Thermostat	180F non-vented [23503825]
2	23532436-EP	Thermostat	Kit 190 degree, 8929878 thermostat and 5132155 seal [23532436 kit]
Prior to DDEC V			
2	8929878-F	Thermostat	190 degree {5.2050}
2	15132155	Thermostat seal	[5132155]
2	8929875-F	Hose	Water bypass tube 1-3/4 x 3.25 {5.2165}
2	23514665	Hose	Water bypass tube 2.00 x 3.00, silicone blue {5.2165}
4	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
2	23506325-F	Hose	Water pump to cooler, 2.75 x 3.00 {5.3401}
2	8929724	Hose	Water pump to cooler, 3.00 x 2.50 {5.3401}
1	23503704-F	Ball bearing	Fan shaft inner {5.4110}
1	23503535-F	Ball bearing	Fan shaft outer {5.4110}
1	8929216-F	Retaining Ring	Fan spindle; 1.618 OD {5.4111}
1	8929063-F	Retaining Ring	Fan spindle; 3.734 OD {5.4111}
1	5103951-F	Oil Seal	Fan shaft {5.4150}
1	8929213-F	Oil Seal	Fan spindle {5.4160}
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	650652	Sensor turbo boost	Air turbo boost pressure, DDEC II and III, with seal oring 5182977 [23528418 kit; 12219935 sensor, 5182977 seal]
1	23522322-B	Sensor turbo boost	Air turbo boost pressure DDEC IV Pre-EGR [23522322]
1	18929529	Gasket turbo mounting	Single throat, 4-bolt holes [8929529]
1	18929285	Gasket turbo drain	[8929285]
1	123530682	Oring turbo	Turbo oil drain adaptor to tube [23530682]
1	23512896	Manifold exhaust	High mount [23511978 center, 23511221 front, 23511222 rear]
3	123517875	Gasket manifold intake	2 port, non-EGR engines [23517875]
3	123531110	Gasket manifold intake	2 port, EGR engines {3.3803} [23531110]
3	123511666	Gasket manifold exhaust	2-port; stainless steel [23511666; superseded by 23533983, 23539193]
2	8929765	Gasket manifold exhaust	3 port [not serviced, use 3 of 23511666] {6.010}
4	23507438-F	Exhaust manifold stud	Manifold to turbo; M10 x 1.5 x 44.0 {6.1022}
Non-EGR			
4	8929425-F	Stud turbo mounting	Turbo to manifold; M10 x 1.5 x 50.0 {6.1022}
4	18929169	Washer	Turbo mounting [8929169]
	111506101	Nut	Turbo mounting, exhaust manifold mounting [11506101]
Turbo mounting: Non-EGR			
12	8929357-F	Bolt	Manifold to head; M10 x 1.5 x 120 {6.1025}
BLOCK			
1	8924517-F	Pipe Plug	Gear case cover; 3/8 x 18 square head {1.1001}
1	8923313-F	Pipe Plug	Block, 3/4
1	23511574-F	Pipe Plug	1/2 pipe thread with 1 inch square head
1	8929015-F	Dowel Pin	16mm; Circular shape

Detroit 12.7L - 60 Series		6 Cylinder	Block: 8929656
Diesel (Continued)		Bore 130mm	Rod: 8929234, 8929236
6067: B/G/M/P/T (5th digit in model number)		Stroke 160mm	
2	8929022-F	Dowel Pin	16mm; Diamond shape
1	8929152-F	Dowel Pin	20mm; Circular shape
1	8929153-B	Dowel Pin	20mm; Diamond shape
MISC			
Sensors			
1	18929387	Sensor	Camshaft SRS (Synchronous Reference Sensor) [8929387]
Pre-EGR			
1	18929388	Sensor	Crankshaft TRS (Timing Reference Sensor) [8929348]
Pre-EGR			
8	23502879-F	Isolator bushing	ECM mounting; DDEC II {2.1520}
8	23512307-F	Isolator bushing	ECM mounting, DDEC III, DDEC IV, DDEC V {2.1520}
Front Cover, Accessory Drive, Air Compressor			
1	18929130	Gasket	Upper right rear & cam access cover; Tach drive cover [8929130]
1	15141452	Seal ring	Seal ring front cover (blower for 2-cycle)
1	8929253-F	Oring	Accessory drive cover; .139 x 4.609 ID {1.7600}
1	8929299-F	Gasket air compressor	Air compressor drive housing {12.4039}
1	123516100	Gasket power steering	Power steering pump, 2-bolt [23516100]
1	123527273	Oring	Air compressor/power steering, 6.234" ID [23527273]
1	123527275	Oring	Air compressor oil supply, 0.421" ID [23527275]
1	23509204-F	Lock ring	Accessory drive {1.7650}
1	23511746-F	Lock ring	Accessory gear {1.7650}
2	8929064-F	Snap Ring	Accessory drive; 3.121 OD {1.7650}
1	23505643-F	Lock ring	Power steering pump adaption {1.7650}
1	8929062-F	Lock ring	Air compressor {1.7650}
1	23518178-F	Ball bearing	Accessory drive {1.7655}
1	23509203-F	Ball bearing	Accessory gear shaft {1.7655}
1	8929024-F	Ball bearing	Bearing assembly {1.7655}
1	23511745-F	Bearing accy drive	Accessory drive {1.7655} Cylindrical
1	23511747-F	Oil Seal	Oil accessory drive {1.7660}
1	8929154-F	Oil Seal	Oil accessory drive {1.7660}
1	99133-FM	Sleeve	Redi, Use with 8929154 seal
1	8929820-F	Bearing roller	Air compressor {12.4048}
1	5141773-F	Drive coupling	Air compressor drive {12.4050}
Miscellaneous			
1	5101760-F	Crankcase Breather	Element in valve cover, 4 inch round {4.8060}
6	23515946-F	Spark Plug	[Being discontinued, check for availability] Natural gas Engines {7.8700}

Detroit 14.0L - 60 Series		6 Cylinder	
Diesel		Bore 133mm	
6067: F/H/ (5th digit in model number)		Stroke 168mm	
ENGINE KITS			
1	DET60-14L-30661IF	Inframe kit	23530661 cylinder kit; rod & main bearings, thrust washers, cam bearings, head set, pan gasket; LESS valve cover gasket, valve stem seals
1	DET60-14L-30663IF	Inframe kit	23530663 cylinder kit; rod & main bearings, thrust washers, cam bearings, head set, pan gasket; LESS valve cover gasket, valve stem seals
1	DET60-14L-30665IF	Inframe kit	23530665 cylinder kit; rod & main bearings, thrust washers, cam bearings, head set, pan gasket; LESS valve cover gasket, valve stem seals
1	DET60-14L-33452IF	Inframe kit	23533452 cylinder kit; rod & main bearings, thrust washers, cam bearings, head set, pan gasket; LESS valve cover gasket, valve stem seals
1	11014	Inframe re-ring kit	EGR Engines; Pistonless (No crown, skirt, pin, retainers); LESS: pan gkt, valve cvr gsk, valve stem seals
CYLINDER KIT			
6	23530661-F	Cylinder kit	15.0:1 CR [23530596 dome and skirt, 23537307 pin, 23521781 retainers, 23531252 / 23525573 rings, 23531250 liner]
6	23530663-F	Cylinder kit	16.0:1 CR, Oval piston design [23530598 dome and skirt, 23537307 pin, 23521781 retainers, 23531252 / 23525573 rings, 23531250 liner]
6	23530665-F	Cylinder kit	16.0:1 CR, Cutback piston design [23527775 dome and skirt, 23537307 pin, 23521781 retainers, 23531252 rings, 23531250 liner]
6	23533452-F	Cylinder kit	15.0:1 CR, 3.0mm Top ring; Marine applications [23530767 dome and skirt, 23537307 pin, 23521781 retainers, 23533510 rings, 23531250 liner]
6	23537307-F	Piston pin	For articulated steel piston [replaces 23522872]
12	23521781-F	Retainer piston pin	For articulated steel piston
6	123528493	Piston cooling nozzle	[23528493]
6	123506222	Bolt cooling nozzle	For 23528493 nozzle or plate [23506222]
6	23531252-F	Ring set	130mm (5.118") bore; 3.0mm top ring [23531252; replaces 23525573]
6	23533510-F	Ring set	130mm (5.118") bore; 23528940 top 3.0mm, 23522879 compression, 23522880 oil, 23522881 expander
Marine			
6	123531250	Cylinder liner	Liner with seals [23531250; 23535511/ 23531504 liner]
6	111003	Cylinder liner oring kit	Contains crevice seal and D-rings [(1) 18929013, (2) 18929176]
6	18929013	Cylinder liner oring	Crevice seal, black [8929013]
12	18929176	Cylinder liner seal	D-ring, blue [8929176]
6	23525500-F	Insert counterbore	Upper counterbore repair
BEARINGS			
1	123527914	Bearing kit lower end	Std; Mains with 95mm journal rod bearings [23527914; (6) 8929670, (1) 8929680, (2) 8929085, (6) 23526141]
Pre EGR (approximately esn prior to 06R0718942)			
1	123535280	Bearing kit lower end	Std, Used with closed end connecting rods, 95mm journal rod journal [(7) 8929670, (1) 23535010, (2) 23530554, (2) 23530555, (6) 23526141]
OE style, can be used on all EGR model engines regardless of thrust bearing design (approximately esn 06R0718942 and Up)			
1	123533692	Bearing kit lower end	Std, Used with closed end connecting rods, 95mm journal rod journal, Late style (4) directional tw design mains [23533691 main set, (6) 23526141 rod pair]
EGR esn 06R0762048 and up			

Detroit 14.0L - 60 Series		6 Cylinder	
Diesel (Continued)		Bore 133mm	
6067: F/H/ (5th digit in model number)		Stroke 168mm	
DET60MAINS01	Main bearing type 1	Engines with 2-piece thrust washer [OE# 23535013]	
Pre EGR			
1	23535013-F	Bearing main set	Std; Contains: (6) 8929670 main, (1) 23535012 thrust bearing/washer kit
1	23535012-F	Bearing main thrust	Std; Contains: (1) 8929680 thrust pair [23533252 lower / 23533263 upper], (2) 8929085 thrust washer
6	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
6	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
6	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
6	18929673	Bearing main pair	0.762mm (0.030") [8929673 pair; (1) 23533249 lower, (1) 23533256 upper]
1	18929680	Bearing thrust pair	Std, flanged [8929680 pair; (1) 23533252 / 8929082 lower, (1) 23533263 / 8929083 upper]
1	18929681	Bearing thrust pair	0.254mm (0.010"), flanged [8929681 pair; (1) 23533251 lower, (1) 23533262 upper]
1	18929682	Bearing thrust pair	0.508mm (0.020"), flanged [8929682 pair; (1) 23533250 lower, (1) 23533261 upper]
1	18929683	Bearing thrust pair	0.762mm (0.030"), flanged [8929683 pair; (1) 23533249 lower, (1) 8929688 upper]
1	8929085S-F	Thrust washer set	Position upper; contains (2) 8929085
2	18929085	Thust washer	Std, single
2	18929697	Thust washer	0.127mm (0.005"), single
2	18929698	Thust washer	0.254mm (0.010"), single
DET60MAINS02	Main bearing type 2	Engines without machined notches in main bearing caps, 4 thrust washers (early style tw)	
EGR prior to esn 06R0762048			
1	23535011-F	Bearing main set	Std; Contains: (6) 8929670 main, (1) 23535010 thrust bearing/washer kit
1	23535010-F	Bearing main thrust	Std; Contains: (1) 23533263 thrust upper, (1) 23532926 thrust lower, (4) 8929085 thrust washer
6	18929670	Bearing main pair	Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]
	18929671	Bearing main pair	0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]
	18929672	Bearing main pair	0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]
1	23533263-F	Bearing main half	Std, Thrust, Upper position
	23533262-F	Bearing main half	0.254mm (0.010"), Thrust, Upper position
	23533261-F	Bearing main half	0.508mm (0.020"), Thrust, Upper position
1	23532926-F	Bearing main half	Std, Thrust, Lower position
	23533255-F	Bearing main half	0.254mm (0.010"), Thrust, Lower position
	23533254-F	Bearing main half	0.508mm (0.020"), Thrust, Lower position
2	8929085S-F	Thrust washer set	Position upper; contains (2) 8929085
4	18929085	Thust washer	Std, single

Detroit 14.0L - 60 Series		6 Cylinder
Diesel (Continued)		Bore 133mm
6067: F/H/ (5th digit in model number)		Stroke 168mm
DET60MAINS03	Main bearing type 3	Engines with machined notches in main bearing caps, 4 thrust washers (directional tw)
EGR after esn 06R0762048		
1	23533691-F	Bearing main set
Std; Contains: (7) 8929670, (2) 23530554, (2) 23530555		
7	18929670	Bearing main pair
Std [8929670 pair; (1) 23533252 / 8929082 lower, (1) 23533259 / 8929081]		
	18929671	Bearing main pair
0.254mm (0.010") [8929671 pair; (1) 23533251 lower, (1) 23533258 upper]		
	18929672	Bearing main pair
0.508mm (0.020") [8929672 pair; (1) 23533250 lower, (1) 23533257 upper]		
2	123530554	Thrust washer
Front, used with plain main thrust [23530554]		
2	123530555	Thrust washer
Rear, used with plain main thrust [23530555]		
6	123526141	Bearing rod pair
Std, closed end rod, 95mm journal, drilled upper and lower [23526141; Contains (2) 23535741; replaces 23524857, marked 23522882]		
6	23533567-B	Bearing rod pair
0.254mm (0.010"), closed end rod, 95mm journal [Contains (2) 23532253]		
6	23533568-B	Bearing rod pair
0.508mm (0.020"), closed end rod, 95mm journal [Contains (2) 23532254]		
6	MCB7133-B	Bushing con rod
For closed end drilled rod only		
7	18929690	Bearing cam
Std, pair [8929690]		
7	8929691-F	Bearing cam
0.254mm (0.010"), pair		
7	8929692-F	Bearing cam
0.508mm (0.020"), pair		
7	8929693-F	Bearing cam
0.762mm (0.030"), pair		
GASKET & SEALS		
1	123532332	Set overhaul
Pre EGR; Does not include: Valve cover gasket, valve stem seals, pan gasket, crankshaft seals [23532332, replaces 23512691]		
1	23536443-B	Set overhaul
EGR applications; Does not include: Valve cover gasket, valve stem seals, pan gasket, crankshaft seals [23536443]		
1	123532333	Set cylinder head
Pre EGR; Does not include: Valve cover gasket, valve stem seals [23532333; replaces 23526852, 23501572]		
1	123536442	Set cylinder head
EGR (EPA 2002) applications; Does not include: Valve cover gasket, valve stem seals [23536442]		
1	1NU1003	Set conversion
LESS: crankshaft seals, oil pan gasket		
G1 UPPER GASKETS		
1	23532298-F	Gasket cylinder head
ML7(TM) head gasket design, metal sandwich-type gasket [23538406 gasket, with instruction sheet] [replaces 23532045, 23530421, 23522588]		
1	123516322	Gasket valve cover
Gray silicone, old style; For 1-pc cover with 4-bolts (also used: 2-pc and 3-pc: lower to head) [23516322, repl 8929863]		
1-pc cover: approx. esn to 06R0512190; 2-pc cover: approx. esn to 06R0585165		
1	123522269	Gasket valve cover
Black polyacrylate, new style; For 1-pc cover with 10-bolts (also used: 2-pc and 3-pc: lower to head) [23522269]		
1-pc cover: approx. esn 06R0512191 and up; 2-pc cover: approx. esn 06R0585166 and Up		
1	23511991-F	Gasket valve cover
106.68" circumference; diamond shaped 0.186" thick; 2-pc upper to lower; 3-pc intermediate to lower		
1	123511992	Gasket valve cover
98.38" circumference; diamond shaped 0.186" thick; 3-pc upper to intermediate; Exc.OE# 23505973		
esn 06R0130015 and Up (June 1993)		
4	23517912-F	Isolator rckr cvr bolt
1.756 OD; One piece rubber with metal washer		
1-pc cover only, approx. esn to 06R0512190		

Detroit 14.0L - 60 Series		6 Cylinder	
Diesel (Continued)		Bore 133mm	
6067: F/H/ (5th digit in model number)		Stroke 168mm	
10	23517911-F	Isolator rckr cvr bolt	One piece rubber with metal washer [replaces 8929559 isolator and 8929560 washer]
2-pc cover: approx. esn to 06R0585165			
10	123522271	Isolator rckr cvr bolt	Bolt and isolator 1-pc assembly [23522271]
1-pc cover: approx. esn 06R0512191 and Up; 2-pc cover: approx. esn 06R0585166 Up			
	G5	PAN GASKETS	
1	18929102	Gasket oil pan	Old style; standard oil pan; gray silicone [8929102]
esn to 06R0502358 (to April 1999)			
1	123522279	Gasket oil pan	New style; black, Use for oil pan without cord modified seal system; effective April 1999 [23522279; New number 23539104]
esn 06R0502359 and Up			
	G3	CRANK SEALS	
1	123518355	Seal crankshaft front	Seal and sleeve [23518355, replaces 23513485]
1	123519651	Seal crankshaft rear	Seal and sleeve, dry housing, Unitized assembly [23519651]
1	23513578-F	Seal crankshaft rear	Seal and sleeve, wet housing, double lip wrap around
CAMSHAFT			
1	23513559R	Timing bull gear	Remanufactured, assembly [23513559]
DDEC III, DDEC IV (Pre-EGR)			
7	8929129-B	Bolt cam journal cap	M12 x 1.75 x 65
6	8929587-B	Bolt cam journal cap	M12 x 1.75 x 110.0
2	8929588-B	Stud cam journal cap	M12 x 1.75 x 123
2	23500708-B	Nut cam journal cap	M12 x 1.75
2	8929740-F	Seal ring	Cam bearing cap to cylinder head; .134 x .074 x .480 {1.3156, 1.7042, 1.8160}
Prior to May 1999: Front and Rear cap; May 1999 and up: Rear cap			
2	23522975-F	Seal ring	Cam bearing cap to cylinder head, racetrack {1.7042, 1.8160}
May 1999 and up: Front cap			
1	23521894-F	Seal ring	Cam thrust plate to cylinder head, 3 bolt {1.7075}
1	23528491-F	Seal ring	Cam thrust plate to gear housing, perimeter seal (repl 8929318) {1.7075}
1	123527416	Seal ring	Seal cam cover perimeter [23527416]
EGR			
2	123521111	Seal rocker shaft	Rocker shaft stud to head (Stat-o-seal) [23521111]
	8929059-F	Bushing rocker arm	Service bushing, Narrow, 15mm wide; must be finished to final size after installation
	8929536-F	Bushing rocker arm	Service bushing, Wide, 20mm wide; must be finished to final size after installation
30	23514371-F	Nut rocker arm	Arm adjusting screw; 3/8 - 24 {1.8135}
VALVE TRAIN			
1	22-60SERIES	Cylinder head	Remanufactured complete, cast# 8929620, 8929872
Pre EGR			
12	23501576-B	Valve intake kit	Includes 23529629 valve, valve seal, keeper, rotocap
12	123529629	Valve intake	1.7320 head dia, 0.3421" stem dia, 8.4980 length, 30 degree [23529629, 8929589]
12	123507504	Valve exhaust kit	Identification H; MY 1991-2001 (Pre EGR) Includes 123524521 valve, valve seal, keeper, rotocap [NOTE: do not mix former and current exhaust valves] [23507504]
12	123524521	Valve exhaust	Identification H; MY 1991-2001 (Pre EGR) [NOTE: do not mix former and current exhaust valves] [23524521, 23506350]
12	13001	Valve exhaust	1.556 head dia, 8.497 OAL, 0.3429 stem dia, 30 deg, 1G, Iconel [23529596]
With EGR, from 2003			
48	18929573	Valve lock	[8929573]

Detroit Diesel 6067: F/H/ (5th digit in model number)		14.0L - 60 Series (Continued)	6 Cylinder Bore 133mm Stroke 168mm
24	123533552	Valve guide	Powdered metal replacement [23533552]
24	140-8591	Valve guide	Std, 14.30mm to 14.32mm OD; 0.3453 ID, 0.5635 OD, 4.000 length; Guide bore reaming is recommended prior to installation [23518571]
24	23518572-F	Valve guide	.005" o/s, 14.43mm to 14.45mm OD [supercedes to 23538401]
24	123523930	Valve stem seal	(not included in gasket sets) [23523930; replaces 8929072]
24	18929415	Valve spring	2.91" free length [8929415; replaced by 23535296]
Intake and Exhaust Non-EGR, Intake EGR			
12	23530359-F	Valve spring	3.25" free length, Yellow stripe [replaced by 23535122]
Exhaust EGR			
24	18929105	Rotacap	[8929105]
24	8929076-F	Valve spring seat	0.087" - 0.094" thick (2.20mm - 2.40mm)
	8929634-F	Valve spring seat	0.010 thicker (2.45mm - 2.65mm thick) [8929634]
	8929635-F	Valve spring seat	0.020 thicker (2.70mm - 2.90mm thick) [8929635]
	8929636-F	Valve spring seat	0.030 thicker (2.95mm - 3.15mm thick) [8929636]
12	8929127-F	Valve insert	Intake, Std (7.155mm-7.257mm thick) 1.8195 OD, 1.5710 ID, .2830 depth
	8929625-F	Valve insert	Intake, 0.010 (0.254mm) reduced thickness (6.901mm-7.003mm thick)
	8929626-F	Valve insert	Intake, 0.020 (0.508mm) reduced thickness (6.647mm-6.749mm thick)
	8929627-F	Valve insert	Intake, 0.030 (0.762mm) reduced thickness (6.393mm-6.495mm thick)
	18929127-005	Valve insert	Intake 0.005-inch Oversize OD
	18929127-010	Valve insert	Intake 0.010-inch Oversize OD
	18929127-020	Valve insert	Intake 0.020-inch Oversize OD
12	18929126	Valve insert	Exhaust; Std (6.261mm-6.363mm thick) 1.6285 OD, 1.3570 ID, .2490 depth [8929126]
	8929628-F	Valve insert	Exhaust, 0.010 (0.254mm) reduced thickness (6.007mm-6.109mm thick)
	8929629-F	Valve insert	Exhaust, 0.020 (0.508mm) reduced thickness (5.753mm-5.855mm thick)
	8929630-F	Valve insert	Exhaust, 0.030 (0.762mm) reduced thickness (5.499mm-5.601mm thick)
	18929126-010	Valve insert	Exhaust 0.010-inch Oversize OD
	18929126-020	Valve insert	Exhaust 0.020-inch Oversize OD
	18929126-030	Valve insert	Exhaust 0.030-inch Oversize OD
6	123501580	Injector tube	Used with N2 injector; DDEC-II through IV; Tube with seal ring 23515470 [23501580]
6	23533148-B	Injector tube	Used with N3 injector, DDEC-V, MY 2004; Threaded, stainless steel (requires 23533147 seal ring) [23533148]
6	23534745-B	Injector tube	Used with E3 injector; DDEC-VI, MY 2007; Threaded, stainless steel (requires 23534743 seal ring) [23534745]
6	23515470-F	Seal ring injector tube	Used with N2 injector; For 23501580 tube [23515470]
6	5104701-F	Seal injector tube	Injector tube auxillary ring, Large upper oring [5104701]
Use with N2 injector tube			
6	23511870-B	Seal injector tube	Injector tube auxillary ring, Lower graphite tip ring for injector [23511870]
Use with N2 injector tube			
6	23533147-B	Seal ring injector tube	Used with N3 injector; For 23533148 tube [23533147]
6	23534743-B	Seal ring injector tube	Used with E3 injector; DDEC-VI, MY 2007; For 23534745 tube [23534743]
	23536862-B	Shim injector tube	0.007 thickness, no notch on ID (use with E3 stainless steel tube when head has been resurfaced)
	23536863-B	Shim injector tube	0.012 thickness, 1 notch on ID (use with E3 stainless steel tube when head has been resurfaced)
	23536864-B	Shim injector tube	0.018 thickness, 2 notches on ID (use with E3 stainless steel tube when head has been resurfaced)

Detroit Diesel		14.0L - 60 Series	6 Cylinder
(Continued)			Bore 133mm
6067: F/H/ (5th digit in model number)			Stroke 168mm
38	123530768	Bolt cylinder head	[23530768]
38	8929328-F	Washer head bolt	
CRANKSHAFT			
1	23527225-F	Crankshaft	12 Hole
1	23525990-F	Damper vibration	Vibration, 13.5" diameter, one-piece [repl 8929502]
CONNECTING ROD			
6	R23526051	Connecting rod	Remanufactured, closed-end, 14.0L [23526051, Cast 23525605]
12	640026	Bolt connecting rod	For 23526051 closed end rod; M14 x 1.5 x 111.5 [23522877]
12	8929019-F	Nut connecting rod	M14 x 1.5
OIL / LUBE SYSTEM			
1	23505886-G	Oil pump	Gear driven
Type 198			
1	641212	Oil pump	Gear driven [23527448]
Type 232			
1	123505992	Gasket oil pump tube	Pickup-inlet tube to pump [23505992]
2	18929347	Gasket oil pump tube	Outlet tube to block [8929347]
1	23505891-B	Oring oil pump tube	Outlet tube to pump, 1.109" ID [23505891]
1	23505892-B	Oring oil pump tube	Outlet tube to relief valve, 0.859" ID [23505892]
2	15117269	Gasket oil regulator	Outlet pipe, junction block (triangle shape) [5117269]
Oil pressure regulator mounting, Oil pressure relief valve mounting			
1	123522415	Oil cooler	11-plate core [23522415; replaces 52474367]
1	NLS0060	Set oil cooler	Oil cooler installation; for cooler with filter base [Contains: 23506247 gsk, 23505902 seal, 8929289 seal, (3) 23508392 seal]
1	23506247-F	Gasket oil cooler	Oil cooler core (used with oil cooler that is mounted to oil filter adaptor) {4.4030}
3	123508392	Seal oil cooler	Oil filter adapter to block; Square cut 1.234" ID x 0.135" x 0.135" [23508392]
Qty 1 also used for Adaptor to block			
1	8929289-F	Seal ring	Oil cooler housing outlet neck to block; Oring 2.734" ID x 0.139" thick {4.4055} [8929289]
1	23532850-B	Seal oil cooler	Oil filter adapter to block, bypass; Square cut, 2.625" ID [23532850]
1	8929302-F	Gasket oil filler	Fill tube adapter, 4 hole {4.5007, 4.5080}
1	23513842-F	Washer copper	Oil gauge adapter {4.6020}
10	23517242-F	Isolator bushing	Oil pan {4.7001}
10	11504571-F	Bolt	Oil pan {4.7001}
	123522281	Isolator assembly	Assembly: 1-pc bolt, isolator, spacer [23522281]
10 used Pre-EGR; 5 used EGR			
	123530961	Isolator assembly	Assembly: 1-pc bolt, isolator, spacer [23530961]
5 used EGR			
FUEL / INJECTOR			
6	5237014R-P	Injector reman	Electronic; DDEC III, DDEC IV
6	5237635R-B	Injector reman	Electronic; DDEC III, DDEC IV
6	5237821R-P	Injector reman	Electronic; DDEC III, DDEC IV [replace 5237785R]
6	0414703003R-P	Injector reman	N3, DDEC V; 6 hole, 146 deg, 8.80 flow [R414703003, 0-414-703-003, 414-703-003, 0986-441-029]
6	5234699K-B	Injector oring kit	Internal and external, Includes MCBS60INJ, (2) 5234224 solenoid spacer seal, 4991539 solenoid valve stop oring, 5234701 internal oring
DDEC-II, III, IV			

Detroit 14.0L - 60 Series		6 Cylinder	
Diesel (Continued)		Bore 133mm	
6067: F/H/ (5th digit in model number)		Stroke 168mm	
6	S60INJKIT	Injector oring kit	External, for 1 injector, Contains: 5234702 upper, (2) 5234699 lower, 5104701 tube auxillary large, 23511870 tube auxillary small graphite tip ring
DDEC-II, III, IV			
1	11000	Injector oring kit	External, for 6 injectors, Contains: 5234702 upper, (2) 5234699 lower
DDEC-II, III, IV			
6	123535700	Injector seal kit	External, for N3 type injector; Includes external orings [23535700]
DDEC-V, N3 injector, MY 2004 (Any time an injector is removed, all three injector orings, injector washers, and hold-down crab bolt must be replaced)			
6	23537111-F	Injector seal kit	External, for N3 type injector; Includes external orings, tip gasket (washer), clamp bolt and washer [23537111]
DDEC-V, N3 injector, MY 2004			
1	5234702-F	Injector oring	Upper; Former style used 2 upper, Current style uses 1 upper {2.1040}
DDEC-IV, V			
2	5234699-F	Injector oring	Lower
DDEC-IV			
6	18929393	Bolt	For Injector clamp hold-down crab, M10 x 1.5 x 70.0 [8929393]
6	123535699	Washer	Washer injector hold down clamp [23535699]
1	123532981	Fuel pump	Fuel transfer pump, Late style air compressor driven [23532981]
1	123505248	Gasket fuel pump	Fuel pump mounting, 3-bolt [23505248]
Fuel pump to drive assembly OR mount			
1	123533010	Seal ring	Fuel pump mounting, square cut, 2.70-inch ID [23533010]
EGR			
1	123506563	Fuel pump check valve	Kit, relief valve; contains: valve, spacer, pin [23506563]
2	123512243	Seal fuel pump	Fuel pump seal, single lip [23512243]
1	123516993	Check valve fuel	Fuel drain check valve, 3/8 NPTF female #6 SST [23516993]
1	23535129-B	Check valve fuel	Fuel drain check valve, M14 ISO male #6 SST [23535129]
DDEC V			
COOLING SYSTEM			
1	123522707	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, square-cut seal groove (green), 6 vane high capacity impeller, 3/8 pipe ports; cast 23517027 [23522707, 23518215, 23522436]
esn to 06R0579833			
1	23526039-G	Water pump	New, rear mount, High flow, 'Kangaroo pouch' style, round o-ring seal groove (blue), 6 vane high capacity impeller, 3/8 pipe ports; cast 23522721 [23526039, 23524729]
esn effective 06R0579834 to EGR			
1	23532542-G	Water pump	EGR, vertical inlet; cast 23530427 [23535017, 23532542, 23531257, 23531245]
1	23532543-G	Water pump	EGR, horizontal inlet; cast 23530429 [23535018, 23535016, 23532543, 23531305, 23531258, 23531246]
1	23520377-F	Seal ring water pump	Water pump to gear case; front or rear mounted with square cut seal ring, viton, color coded green {5.1001}
1	23526038	Seal ring water pump	Water pump to gear case; rear mounted with round seal oring, color coded blue, 0.139" x 5.234" ID {5.1001}
1	123527272	Seal ring water pump	Water pump mounting, round [23527272]
1	123527385	Seal ring	Water pump elbow, square cut [23527385]
1	23529962-F	Water pump kit	Repair, bearing, seals, seal rings, bearing retainer {5.1002} [replaces 23509105, 23505484, 23501579]
1	23507073-F	Gasket water pump	For front mounted pump {5.1010}
1	8922383-F	Water pump cover	Non metallic {5.1031, 5.1235}

Detroit 14.0L - 60 Series Diesel (Continued) 6067: F/H/ (5th digit in model number)			6 Cylinder Bore 133mm Stroke 168mm
1	23512048-F	Oring	Water pump cover; Gear case mounted pumps {5.1032}
1	8922407-F	Retaining ring	Fresh water pump cover {5.1032, 5.1236}
1	23505896-F	Water pump shaft	Gear case mounted pumps, drilled and tapped end {5.1050}
1	8929334-F	Key woodruff	Fresh water pump shaft, 4 x 5, Front mounted pumps, shaft with threaded end {5.1050}
1	8929422-F	Bearing water pump	Water pump shaft {5.1070}
1	8929427-F	Retaining ring	Water pump bearing and seal {5.1071}
1	23517973-F	Impeller	Use with rear mount, high flow 6-vane, cast iron {5.1110}
1	23522433-F	Seal	Water pump shaft, unitized seal [23528191, 23519204, 23519204, 23518316, 23508802, 8929148] {5.1130}
1	23505910-B	Gear water pump	RH, 61 teeth; use with rear mount pump (shaft drilled for bolt) {5.1190}
1	11509584-F	Lock nut	Water pump gear, Front mounted pumps, shaft with threaded end {5.1190}
1	23505024-F	Seal ring water pump	Water pump cover to body, front or rear mounted with square cut seal ring {5.1236}
2	23503827-F	Thermostat	160F
2	23503825-EP	Thermostat	180F non-vented [23503825]
2	23532436-EP	Thermostat	Kit 190 degree, 8929878 thermostat and 5132155 seal [23532436 kit]
Prior to DDEC V			
2	8929878-F	Thermostat	190 degree {5.2050}
2	15132155	Thermostat seal	[5132155]
2	8929875-F	Hose	Water bypass tube 1-3/4 x 3.25 {5.2165}
2	23514665	Hose	Water bypass tube 2.00 x 3.00, silicone blue {5.2165}
4	23505048-F	Clamp water pump seal	Inlet for 2-1/8 diameter hose
2	23506325-F	Hose	Water pump to cooler, 2.75 x 3.00 {5.3401}
2	8929724	Hose	Water pump to cooler, 3.00 x 2.50 {5.3401}
1	23503704-F	Ball bearing	Fan shaft inner {5.4110}
1	23503535-F	Ball bearing	Fan shaft outer {5.4110}
1	8929216-F	Retaining Ring	Fan spindle; 1.618 OD {5.4111}
1	8929063-F	Retaining Ring	Fan spindle; 3.734 OD {5.4111}
1	5103951-F	Oil Seal	Fan shaft {5.4150}
1	8929213-F	Oil Seal	Fan spindle {5.4160}
TURBO / AIR			
	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	18929529	Gasket turbo mounting	Single throat, 4-bolt holes [8929529]
1	18929285	Gasket turbo drain	[8929285]
3	123517875	Gasket manifold intake	2 port, non-EGR engines [23517875]
3	123531110	Gasket manifold intake	2 port, EGR engines [3.3803] [23531110]
3	123511666	Gasket manifold exhaus	2-port; stainless steel [23511666; superceded by 23533983, 23539193]
2	8929765	Gasket manifold exhaus	3 port [not serviced, use 3 of 23511666] {6.010}
4	23507438-F	Exhaust manifold stud	Manifold to turbo; M10 x 1.5 x 44.0 {6.1022}
Non-EGR			
4	8929425-F	Stud turbo mounting	Turbo to manifold; M10 x 1.5 x 50.0 {6.1022}
12	8929357-F	Bolt	Manifold to head; M10 x 1.5 x 120 {6.1025}
BLOCK			
1	8924517-F	Pipe Plug	Gear case cover; 3/8 x 18 square head {1.1001}
1	8923313-F	Pipe Plug	Block, 3/4
1	23511574-F	Pipe Plug	1/2 pipe thread with 1 inch square head

Detroit Diesel		14.0L - 60 Series	6 Cylinder
(Continued)			Bore 133mm
6067: F/H/ (5th digit in model number)			Stroke 168mm
1	8929015-F	Dowel Pin	16mm; Circular shape
2	8929022-F	Dowel Pin	16mm; Diamond shape
1	8929152-F	Dowel Pin	20mm; Circular shape
1	8929153-B	Dowel Pin	20mm; Diamond shape
MISC			
Sensors			
1	18929387	Sensor	Camshaft SRS (Synchronous Reference Sensor) [8929387]
Pre-EGR			
1	18929388	Sensor	Crankshaft TRS (Timing Reference Sensor) [8929348]
Pre-EGR			
8	23512307-F	Isolator bushing	ECM mounting, DDEC III, DDEC IV, DDEC V {2.1520}
Front Cover, Accessory Drive, Air Compressor			
1	18929130	Gasket	Upper right rear & cam access cover; Tach drive cover [8929130]
1	15141452	Seal ring	Seal ring front cover (blower for 2-cycle)
1	8929253-F	Oring	Accessory drive cover; .139 x 4.609 ID {1.7600}
1	8929299-F	Gasket air compressor	Air compressor drive housing {12.4039}
1	123516100	Gasket power steering	Power steering pump, 2-bolt [23516100]
1	123527273	Oring	Air compressor/power steering, 6.234" ID [23527273]
1	123527275	Oring	Air compressor oil supply, 0.421" ID [23527275]
1	23509204-F	Lock ring	Accessory drive {1.7650}
1	23511746-F	Lock ring	Accessory gear {1.7650}
2	8929064-F	Snap Ring	Accessory drive; 3.121 OD {1.7650}
1	23505643-F	Lock ring	Power steering pump adaption {1.7650}
1	8929062-F	Lock ring	Air compressor {1.7650}
1	23518178-F	Ball bearing	Accessory drive {1.7655}
1	23509203-F	Ball bearing	Accessory gear shaft {1.7655}
1	8929024-F	Ball bearing	Bearing assembly {1.7655}
1	23511745-F	Bearing accy drive	Accessory drive {1.7655} Cylindrical
1	23511747-F	Oil Seal	Oil accessory drive {1.7660}
1	8929154-F	Oil Seal	Oil accessory drive {1.7660}
1	99133-FM	Sleeve	Redi, Use with 8929154 seal
1	8929820-F	Bearing roller	Air compressor {12.4048}
1	5141773-F	Drive coupling	Air compressor drive {12.4050}
Miscellaneous			
1	5101760-F	Crankcase Breather	Element in valve cover, 4 inch round {4.8060}

