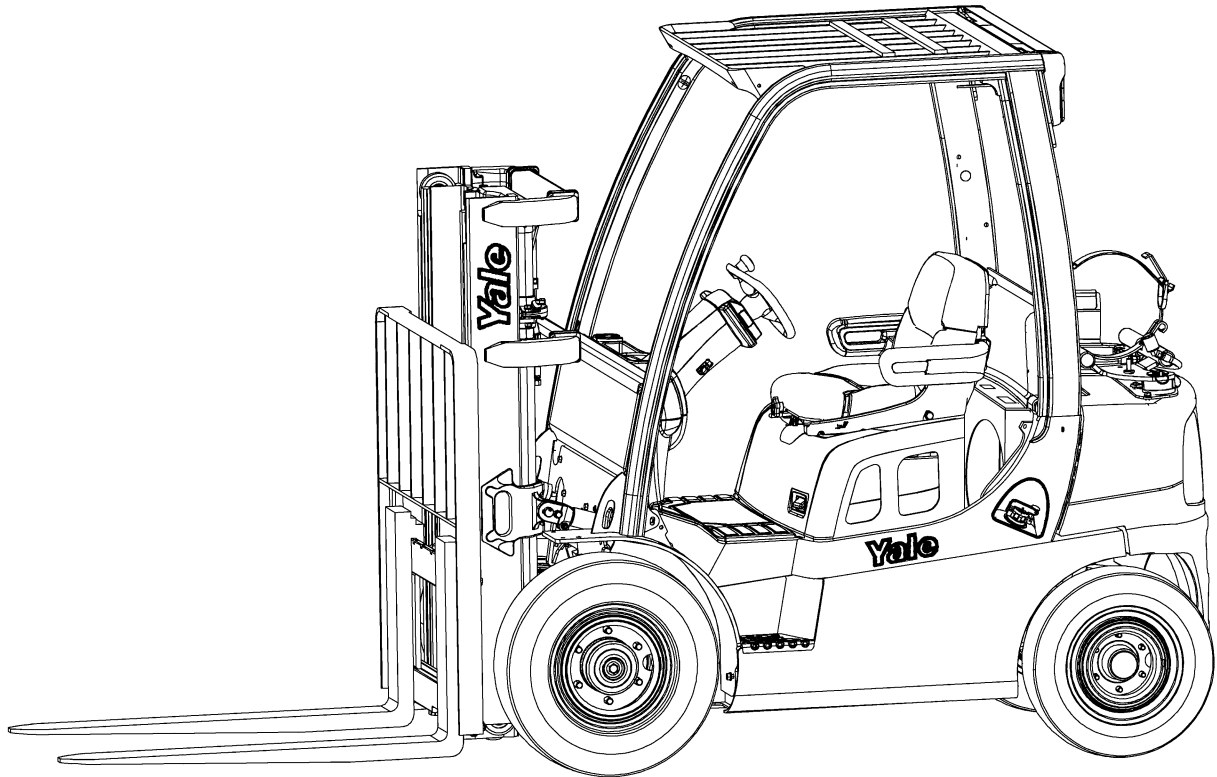




PARTS MANUAL

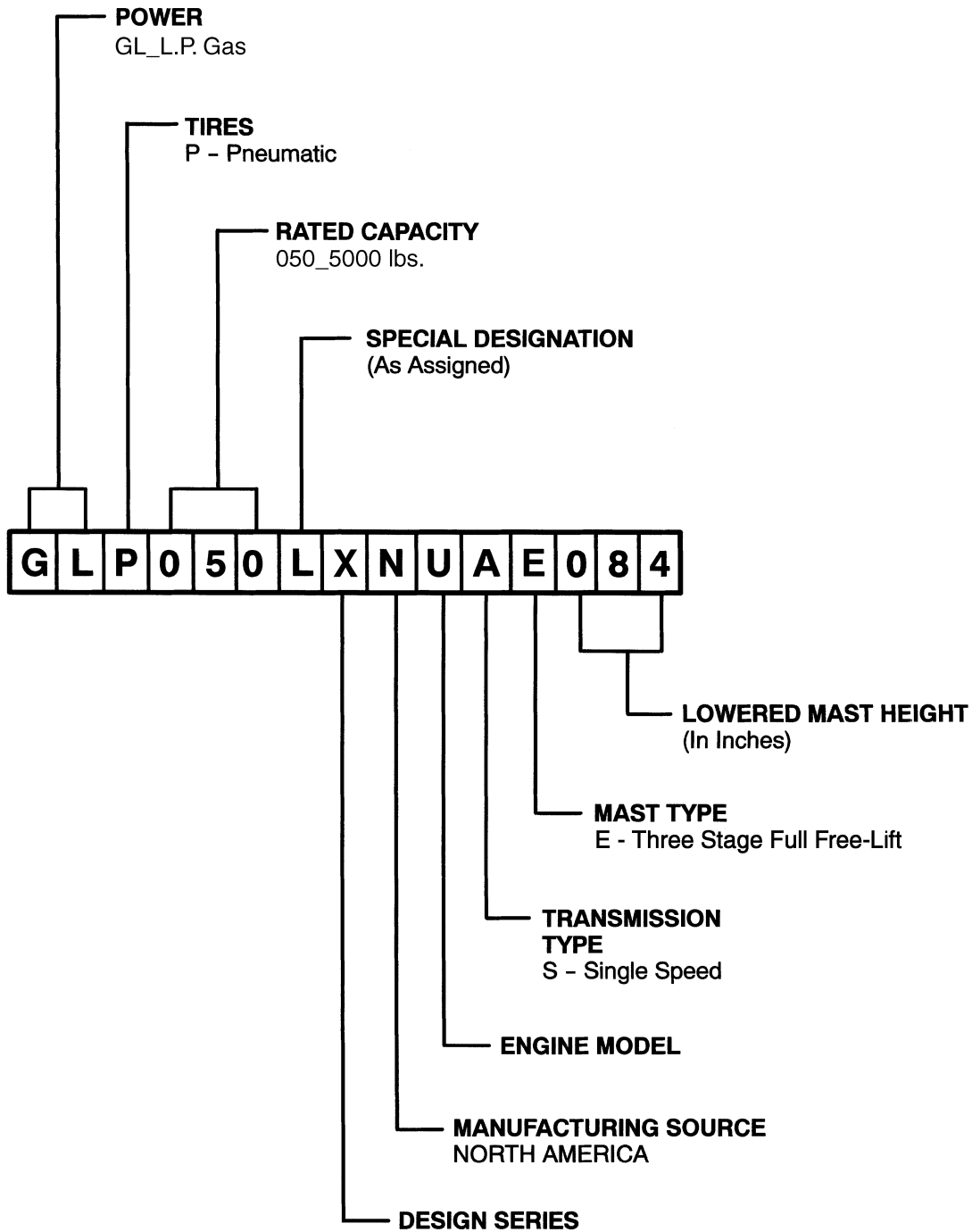
GLP050LX, GDP50LX (A974)



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Caller No. 12011
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MODEL NOMENCLATURE



YP990187

NOTE: This parts manual contains alternate pages for certain assemblies. The truck model code can be used to determine many of the assemblies on your lift truck (power, tire type, mast type). The complete truck model and serial number are stamped into the nameplate. See for further information.



SECTIONS

1	GENERAL TRUCK
2	ENGINE ASSEMBLY
3	EXHAUST SYSTEM
4	COOLING SYSTEM
5	FUEL SYSTEM
6	ELECTRICAL SYSTEM
7	TRANSMISSION
8	DRIVE AXLE
9	STEERING SYSTEM
10	BRAKE SYSTEM
11	HYDRAULIC SYSTEM
12	MAST-THREE STAGE FULL FREE-LIFT
13	OPTIONS
14	NUMERICAL INDEX
15	USER SUPPORT INFORMATION

This Parts Manual is divided into 15 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.



TABLE OF CONTENTS

DESCRIPTION	PAGE
A	
AIR FILTER ASSEMBLY	5-4
AIR INTAKE SYSTEM	
MAZDA 2.0L	5-2
YANMAR 2.6L DIESEL	5-22
ALTERNATOR AND MOUNTING	
YANMAR 2.6L DIESEL	6-31
ASSEMBLED ENGINE	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-6
AUDIBLE BACKUP ALARM	13-3
B	
BATTERY AND CABLES	6-8
BRAKE ASSEMBLY	10-2
BRAKE PEDAL LINKAGE	10-4
C	
CAMSHAFT AND DRIVE GEAR	
YANMAR 2.6L DIESEL	2-40
CAMSHAFT AND VALVES	
MAZDA 2.0L, GASOLINE AND LPG - 2010 EMISSION COMPLIANT ENGINES	2-26
CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-18
CENTER SECTION	8-6
CHARGE PUMP	7-18
COOLING SYSTEM	
MAZDA 2.0L	4-2
YANMAR 2.6L - DIESEL	4-4
COUNTER/REVERSE CLUTCH	
SINGLE SPEED TRANSMISSION	7-24
COUNTERWEIGHT	1-6
COWL MOUNT	1-10
CRANKSHAFT AND PISTONS	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-14
YANMAR 2.6L DIESEL	2-42
CYLINDER BLOCK	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	2-10
YANMAR 2.6L DIESEL	2-44
CYLINDER HEAD	
YANMAR 2.6L DIESEL	2-36
CYLINDER HEAD AND COVER	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	2-8
D	
DISPLAY CLUSTER	6-12
DRIVE AXLE ASSEMBLY	8-2
DRIVE TIRE AND WHEEL	8-8

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
E	
ELECTRICAL ARRANGEMENT	
MAZDA	6-2
ELECTRONIC PRESSURE REGULATOR ASSEMBLY	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-14
ELECTRONIC PRESSURE REGULATOR KIT	
(MAZDA 2.0L LPG)	5-16
EMISSION CONTROL SYSTEM	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-22
ENGINE CONTROL MODULE	
MAZDA 2.0L LPG	6-6
ENGINE COOLING SYSTEM	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-20
ENGINE ELECTRICAL COMPONENTS	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	6-4
ENGINE ELECTRICAL SYSTEM	
YANMAR 2.6L DIESEL	6-28
ENGINE MOUNTING	2-4
EXHAUST MANIFOLD	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-18
EXHAUST SYSTEM	
YANMAR 2.6L DIESEL	3-6
EXHAUST SYSTEM WITH CATALYTIC CONVERTER	
MAZDA 2.0L, LPG	3-2
MAZDA 2.0L, LPG - LATIN AMERICAN SERIES	3-4
F	
FIRE EXTINGUISHER	13-4
FLOORPLATES AND COVERS	1-12
FLYWHEEL AND HOUSING	
YANMAR 2.6L DIESEL	2-30
FLYWHEEL AND HOUSING ASSEMBLY	
MAZDA 2.0L	2-2
FORKS	1-2
OPTIONAL	1-3
FREE LIFT CYLINDER ASSEMBLY	
THREE STAGE FULL FREE LIFT	12-16
FUEL FILTER	
YANMAR 2.6L DIESEL	5-24
FUEL INJECTION	
YANMAR 2.6L DIESEL	5-26
FUEL SYSTEM	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-8
YANMAR 2.6L DIESEL	5-20
FUEL SYSTEM HOSES AND ATTACHING PARTS	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-10
FUEL SYSTEM SENSORS	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	6-7

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
FUEL TANK COVERS	
LATIN AMERICAN SERIES	5-5
FULL SUSPENSION SEAT	
MANUAL HYDRAULIC - NON-SWIVEL	1-20
SHEET 2 OF 2	1-24
G	
GEAR HOUSING	
YANMAR 2.6L DIESEL	2-32
GEAR PUMP ASSEMBLY	11-4
H	
HAND LEVERS	
2 AND 3 FUNCTION	11-14
HEADER HOSE AND ATTACHING PARTS	
3 FUNCTION	12-20
HOOD	1-16
HYDRAULIC CONTROL VALVE	
MANUAL - 3 FUNCTION	11-16
HYDRAULIC FILTER HOUSING	11-10
HYDRAULIC HOSES	
STEERING	11-6
HYDRAULIC SUPPLY AND RETURN	11-2
I	
INPUT/FORWARD CLUTCH	
SINGLE SPEED TRANSMISSION	7-22
INTAKE AND EXHAUST MANIFOLD	
YANMAR 2.6L DIESEL	2-28
INTAKE MANIFOLD	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-16
INTEGRAL SIDE-SHIFT CARRIAGE	
THREE STAGE FULL FREE-LIFT	13-6
INTEGRAL SIDE-SHIFT CYLINDER	13-10
INTEGRAL SIDE-SHIFT HYDRAULIC HOSES	
THREE STAGE FULL FREE-LIFT	13-8
L	
LABELS	
SHEET 1 OF 2	1-26
SHEET 2 OF 2	1-28
LIGHTS	
STOP, TAIL, TURN, BACKUP, AND STROBE - WITH OVERHEAD GUARD	6-10
LOAD BACKREST EXTENSION	1-4
LPG FUEL TANK AND MOUNTING	5-6
LUBRICATION SYSTEM	
YANMAR 2.6L DIESEL	2-48

TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
M	
MAIN LIFT CYLINDER ASSEMBLY	
THREE STAGE FULL FREE LIFT	12-12
MAST ASSEMBLY	
INNER MAST AND FREE-LIFT	12-8
INTERMEDIATE MAST AND MAIN LIFT	12-4
OUTER MAST	12-2
MIRRORS	13-2
MIXER AND THROTTLE BODY ASSEMBLY	
MAZDA 2.0L - 2010 EMISSION COMPLIANT ENGINES	5-12
N	
NON SUSPENSION SEAT	
WITHOUT ELECTRONIC CONTROLS	1-18
O	
OIL PAN	
YANMAR 2.6L DIESEL	2-34
OIL PUMP AND FILTER	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-24
OVERHEAD GUARD	1-8
P	
PARK BRAKE	10-6
S	
STATOR SUPPORT HOUSING	7-20
STEER TIRE AND WHEEL	9-12
STEERING AXLE AND ATTACHING PARTS	9-8
STEERING COLUMN ASSEMBLY	9-4
ISOLATED, DIESEL	9-6
STEERING CYLINDER	9-10
STEERING WHEEL AND COLUMN	9-2
T	
THROTTLE CABLE LINKAGE	
YANMAR 2.6L DIESEL	5-28
THROTTLE PEDAL AND ATTACHING PARTS	5-18
TILT AND AUXILIARY HOSES	11-8
TILT CYLINDER AND MAST INSTALLATION	11-11
TILT CYLINDER ASSEMBLY	11-12
TIMING GEAR COVER AND OIL PAN	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-12
TORQUE CONVERTER	7-8
TORQUE CONVERTER HOUSING AND ATTACHING PARTS	
SINGLE SPEED (→ 2/2011)	7-10
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)	7-14
TRANSMISSION COOLING	
MAZDA 2.0L LPG	7-2
YANMAR DIESEL	7-4


TABLE OF CONTENTS (continued)

DESCRIPTION	PAGE
TRANSMISSION HOUSING AND ASSEMBLY	
SINGLE SPEED (→ 2/2011)	7-12
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)	7-16
TRANSMISSION MOUNT	
SINGLE SPEED	7-6
V	
VALVE ASSEMBLY, AUXILIARY	
MANUAL CONTROL VALVE - THREE FUNCTION	11-20
VALVE ASSEMBLY, LIFT AND TILT	
MANUAL CONTROL VALVE - THREE FUNCTION	11-18
VALVE ASSEMBLY, OUTLET SECTION	
MANUAL CONTROL VALVE - THREE FUNCTION	11-22
W	
WATER PUMP	
YANMAR 2.6L DIESEL	2-46
WIRE HARNESS	
MAZDA 2.0L LPG - POWERTRAIN	6-14
RH CHASSIS - SHEET 1 OF 2 (→ S/N A974V01949J)	6-18
RH CHASSIS - SHEET 2 OF 2 (→ S/N A974V01949J)	6-20
RH CHASSIS - SHEET 1 OF 2 (S/N A974V01950J →)	6-22
RH CHASSIS - SHEET 2 OF 2 (S/N A974V01950J →)	6-24
YANMAR 2.6L DIESEL - POWERTRAIN	6-32
YANMAR 2.6L DIESEL - FUSED ALTERNATOR	6-36
WIRE HARNESS ADAPTER	
LOW FUEL PRESSURE	6-26

GENERAL INFORMATION

ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION	TERM	DEFINITION
Amp	Amperes	FRE	Freezer Environment
AR	As Required	in.	inches
BDI	Battery Discharge Indicators	LPG	Liquefied Petroleum Gas
BWI	Brush Wear Indicator	MAP	Manifold Absolute Pressure
CE	Communicator End	mm	millimeters
CRE	Corrosive Environment	MSTS	Microprocessor Spark Timing System
D/B	Date Break	NPT	National Pipe Threads
dbA	Decibel "A" Scale	O/S	Oversize
DE	Drive End	PTO	Power Take Off
ECH	Empty Container Handler	RPM	Revolutions per Minute
ECH-3	Empty Container Handler - 3 High Stacking	S/N	Serial Number
ECH-4	Empty Container Handler - 4 High Stacking	TMM	Truck Management Module
ECH-5	Empty Container Handler - 5 High Stacking	UL Type D	Diesel-Powered Safety Rating
ECH-6	Empty Container Handler - 6 High Stacking	UL Type DS	Diesel-Powered Safety Rating
ECH-7	Empty Container Handler - 7 High Stacking	UL Type E	Battery-Powered Safety Rating
ECM	Electronic Control Module	UL Type EE	Battery-Powered Safety Rating
ECN	Engineering Change Notice	UL Type ES	Battery-Powered Safety Rating
EEPROM	Electrically Erasable Programmable Read Only Memory	UL Type G	Gasoline-Powered Safety Rating
EPA	US Environmental Protection Agency	UL Type GS	Gasoline-Powered Safety Rating
EPROM	Electrically Programmable Read Only Memory	UL Type LP	Gas-Powered Safety Rating
		UL Type LPS	LP Gas-Powered Safety Rating
		U/S	Undersize
		UL	Underwriters Laboratory
		V	Volts

HOW TO USE THE ILLUSTRATED PARTS MANUAL

This parts manual describes and illustrates assemblies, subassemblies, and detail parts needed for service replacement.

The different constructions are indicated by keys and footnotes. The callouts correspond to descriptions found on the next page.

Yale Industrial Trucks

GENERAL INFORMATION

ALPHABETICAL INDEX

DESCRIPTION

ABBREVIATIONS QUICK REFERENCE SHEET

BACK-UP ALARM

BATTERY COMPARTMENT AND COVER

BATTERY CONNECTOR

BATTERY ROLLER AND RETAINER

CALIPER ASSEMBLY

FOOT-OPERATED PARKING BRAKE

CARRIAGE

SIX ROLLER

Yale Industrial Trucks

NUMERICAL INDEX

SECTIONS

1

2

3

4

5

6

7

8

9

10

11

12

13

Yale Industrial Trucks

KEY:

A: Diesel

B: Gasoline and LPG

TRANSMISSION HOUSING
(= S/N D807-2639)

ITEM	PART NO.	DESCRIPTION	QTY
1	920767004	Transmission	1
2	924784300	Case Assembly	1
3	910228400	Bearing Cap	4
4	502565902	Capscrew	2
5	502565903	Washer	2
6	912679300	Cover	4
7	912452100	Cotter Pin	1
8	922904903	O-Ring	4
9	906427700	Plug	22
10	908524100	Housing	39
11	931005906	Pin	1
12	449022013	Bolt	1
13	911264400	Lockwasher	8
14	449001052	Hydraulic Pump (see Page 6.28)	8
15	502565901	Gasket	1
16	911358400	Capscrew	1
17	904330100	Washer	1
18	913840401	Temperature Switch	9
19	930808907	Breather	9
20	449015044	Dipstick	2
21	449001003	Screw	3
22	449001048	Nut	3
23	449022017	Capscrew	4
24	931014913	Lockwasher	4
25	922904901	Capscrew	1
26	901888650	Plug	1
	902050871	Repair Kit (Include Item 7)	1
		Repair Kit (Include Item 14)	1

This Parts Manual is divided into 13 major sections which be made by placing the right thumb on the tab of the des pages to the corresponding tab.

3.21

YP990006

GENERAL INFORMATION

HOW TO FIND THE DESIRED PART NUMBER

WHEN THE PART NUMBER AND THE NEXT HIGHER ASSEMBLY IS NOT KNOWN:

1. Determine the function and application of the part required. Turn to the Sections Page. Choose the general area of reference most likely to include the part.
2. Turn to the section you chose. Use the Section Table of Contents to determine the assembly which would normally contain the part required. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS NOT KNOWN AND THE NEXT HIGHER ASSEMBLY IS KNOWN:

3. Determine the assembly the required part is used on. Turn to the Table of Contents (Page i).
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 14-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting correct parts.

6. Parts Supersession Information. Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

Five periods in the PART NO. column (.) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a parts page number in the DESCRIPTION column (☞ 7A56)

7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and

subparts of assemblies. In the example on the previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.

9. Quantities shown are for one assembly. The quantities of the subpart *BEARING CAP* are indicated as two and two. This means two per *CASE* assembly.
10. Serial number breaks identify the most current parts information and are shown as follows:
 - **S/N A810N2639**
Indicates last serial number affected.
 - S/N A810N2640** →
Indicates the first serial number affected.
 - S/N A810N1553 ↔ S/N A810N3291**
Indicates a range of serial numbers affected.

ECN numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information and are identified as follows:

- **S/N Pending Per ECN 63243**
Indicates a pending serial number for last unit affected.
- S/N Pending Per ECN 63243** →
Indicates a pending serial number for first unit affected.

Date breaks are used to indicate when a change occurred but a subsequent serial number break was not recorded. This is an arbitrary date usually based on the ECN release and are identified as follows:

- **D/B 3/00**
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00** →
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00 ↔ D/B 4/00**
Indicates a range of production dates of the item affected.

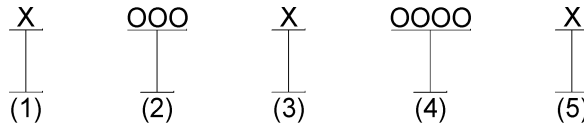
Contact your local dealer for Yale lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

For any further information on parts, service, or ordering, consult your local dealer for Yale lift trucks.

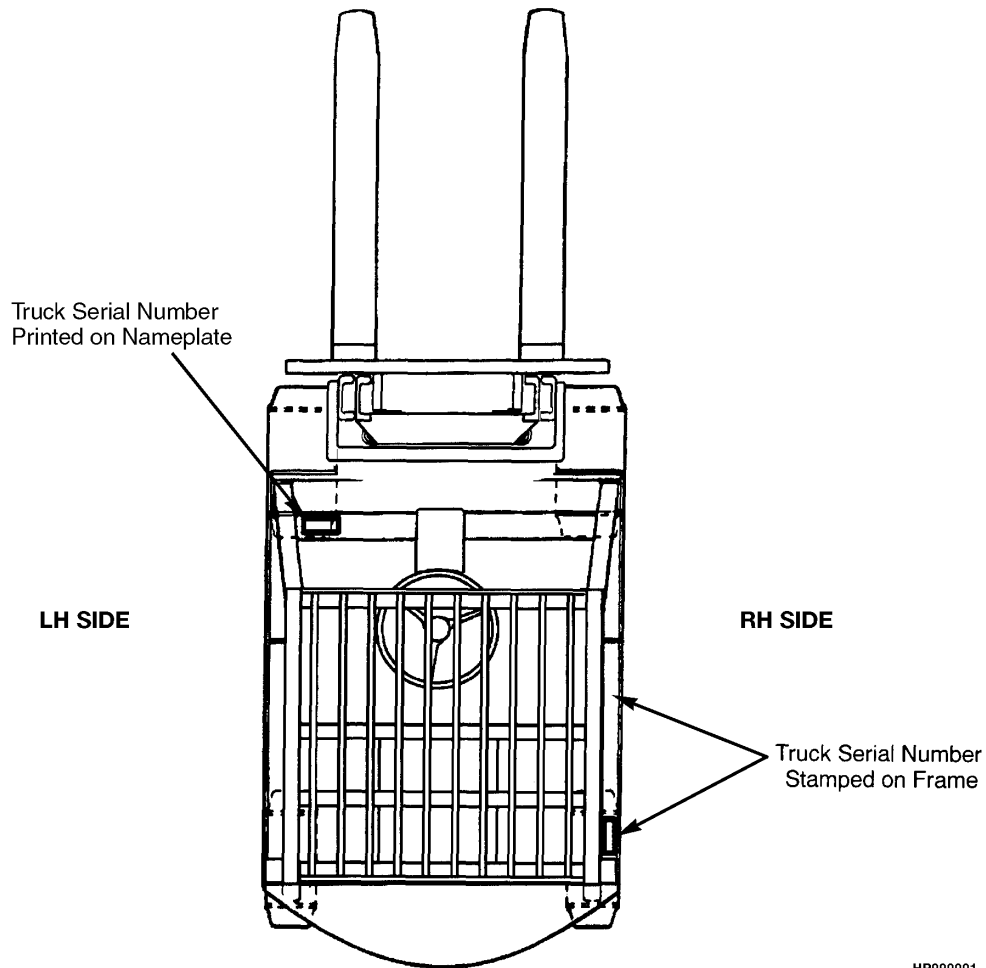
IDENTIFICATION OF TRUCK SERIAL NUMBERS



NOTE: Serial Number breakdown is only for trucks built after 1994.

- (1) and (2) The first letter and three numbers indicate the truck unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the truck.
- (5) The final letter indicates the year of manufacture starting with "A" in 1957, 1980, and 2003.
The letters "I", "O", and "Q" will not be used.

For pending serial numbers contact your local dealer for Yale lift trucks.

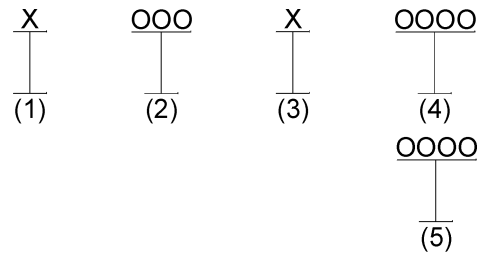


HP990001

Parts referred to in this book as right or left hand parts are in accordance with the illustration above.

GENERAL INFORMATION

IDENTIFICATION OF MAST SERIAL NUMBERS



- (1) and (2) The first letter and number indicates the mast unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the mast.
- (5) Carriage travel in millimeters stamped just below the serial number.

Mast Group identification consists of mast unit code (1) and (2) plus carriage travel (5).

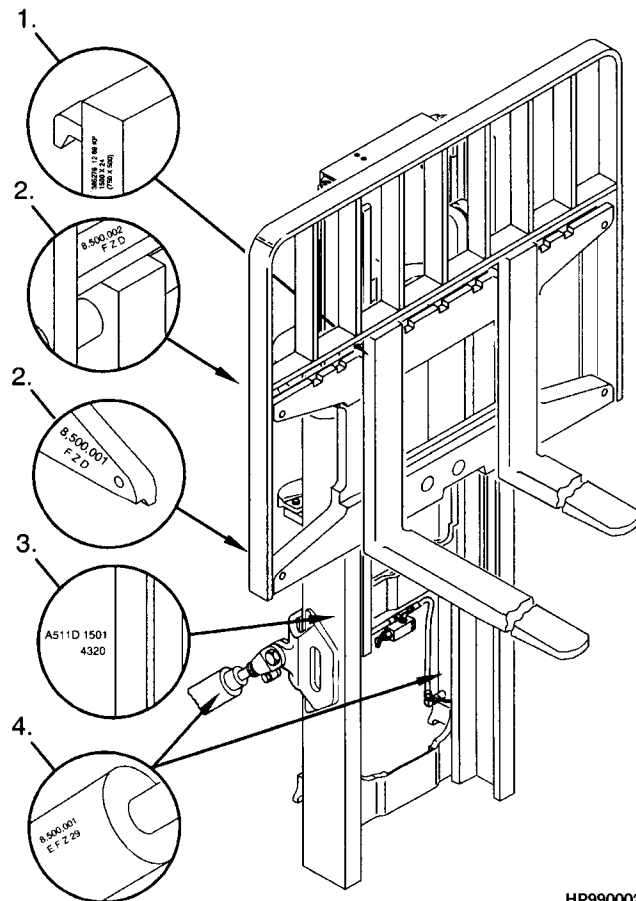
For pending production sequence numbers contact your local dealer for Yale lift trucks.

LIFT EQUIPMENT IDENTIFICATION

1. Fork part number, capacity rating, plant code letter, and date of manufacture are stamped approximately six inches below the top of most forks.
2. The carriage group number is stamped on the right hand side of the top crossmember (pin type) or on the back of the right hand end of the bottom crossmember (hook type). A date code has two letters in line with or below the carriage group number.
3. The mast identification number has a unit code, a letter indicating the plant of manufacture, and a serial number. Underneath the production sequence number is a four digit number that indicates the carriage travel in millimeters.
4. Tilt and lift cylinder group numbers are stamped on the cylinder shell.

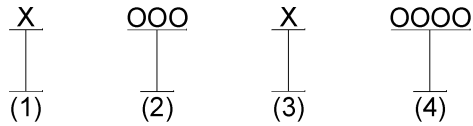
Always refer to the group, serial, or part number when ordering service parts.

Modification of masts and carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". contact your dealer for Yale lift trucks for information on these assemblies.

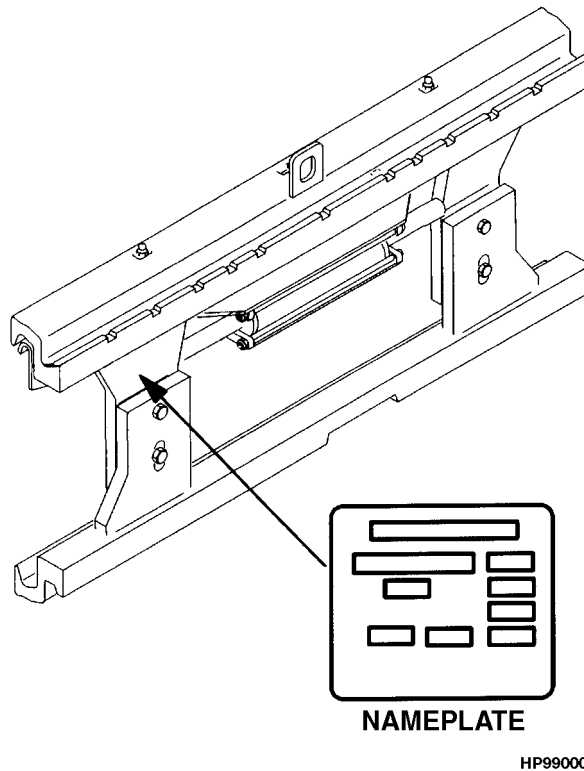


HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS



- (1) and (2) The first letter and three numbers indicate the attachment unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number.
- For pending production sequence numbers contact your local dealer for Yale lift trucks.



Side-shift carriages and attachments have nameplates. Use the serial number found on the nameplate to identify the attachment.

Always refer to the group, serial, or part number when ordering service parts.

Modifications of attachments and side-shift carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". Contact your dealer for Yale lift trucks for information on these assemblies.



GENERAL INFORMATION

PUBLICATIONS

Every new lift truck is provided with an OPERATING MANUAL. This manual has information that the operator must know for inspection and operation of the lift truck.

SERVICE MAINTENANCE MANUALS, which provide service and overhaul procedures, and PARTS

MANUALS with complete replacement part identification, are available at a nominal fee from your Yale dealer to assist users in effectively maintaining Yale lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

PUBLICATION	YALE PART NUMBER
Operating Manual.....	550013965
Service Manual (Complete).....	550013971
Parts Manual.....	550013968



MASTER PART SHEET CROSS-REFERENCE

NOTE: Throughout this manual are references to Part Sheet Numbers. These references are usually found after the description of a part or assembly. The Part Sheet Number is found on the upper left- or righthand corner of the parts pages.

EXAMPLE:

ITEM	PART NO.	DESCRIPTION	QTY
31	505965530	Steering Cylinder (6E67 [Figure 4-3])	1
32	504224261	Pin.....	4

Below is a numerical listing of Part Sheet Numbers found in this parts book and what page number they are on.

PART SHEET	PAGE	PART SHEET	PAGE	PART SHEET	PAGE
P21394.....	2-40	P21960.....	7-22	P22041.....	5-18
P21596.....	1-18	P21961.....	7-24	P22042.....	6-2
P21895.....	1-10	P21962.....	7-6	P22043.....	6-8
P21896.....	1-6	P21963.....	7-2	P22046.....	7-10
P21897.....	1-12	P21976.....	11-2	P22050.....	12-18
P21898.....	1-8	P21977.....	11-6	P22051.....	13-6
P21899.....	1-16	P21978.....	11-8	P22052.....	13-8
P21900.....	1-26	P21979.....	11-10	P22053.....	13-10
P21901.....	1-28	P21980.....	11-11	P22054.....	10-2
P21902.....	1-4	P21981.....	11-12	P22055.....	10-4
P21903.....	2-4	P21982.....	11-14	P22056.....	10-6
P21904.....	3-2	P21983.....	11-16	P22060.....	9-12
P21905.....	3-4	P21984.....	11-18	P22063.....	5-4
P21906.....	2-2	P21985.....	11-20	P22063.....	1-2
P21907.....	2-8	P21986.....	11-22	P22064.....	1-3
P21908.....	2-10	P22004.....	12-2	P22064.....	9-10
P21909.....	2-12	P22005.....	12-4	P22068.....	1-20
P21910.....	2-14	P22006.....	12-8	P22075.....	6-26
P21911.....	2-16	P22007.....	12-12	P22082.....	1-24
P21912.....	2-18	P22008.....	12-16	P22083.....	11-4
P21913.....	2-20	P22009.....	12-20	P22407.....	7-12
P21914.....	2-22	P22010.....	6-10	P22408.....	7-18
P21916.....	2-24	P22011.....	6-12	P22409.....	7-20
P21917.....	2-6	P22012.....	6-6	P22411.....	6-4
P21918.....	4-2	P22013.....	6-18	P22412.....	6-7
P21949.....	5-5	P22014.....	6-20	P22717.....	2-26
P21950.....	5-6	P22015.....	6-14	P23073.....	5-20
P21951.....	5-2	P22028.....	8-2	P23189.....	2-28
P21952.....	5-8	P22029.....	8-6	P23190.....	2-30
P21953.....	5-10	P22030.....	8-8	P23191.....	2-32
P21954.....	5-12	P22031.....	9-8	P23192.....	2-34
P21955.....	5-14	P22032.....	9-2	P23193.....	2-36
P21956.....	5-16	P22033.....	9-4	P23195.....	2-42
P21957.....	7-8	P22034.....	13-2	P23196.....	2-44
P21958.....	7-16	P22035.....	13-3	P23197.....	2-46
P21959.....	7-14	P22036.....	13-4	P23198.....	2-48



GENERAL INFORMATION

PART SHEET	PAGE
------------	------

P23199.....	3-6
P23200.....	4-4
P23201.....	5-22
P23202.....	5-24
P23203.....	5-26

PART SHEET	PAGE
------------	------

P23204.....	5-28
P23205.....	6-28
P23206.....	6-31
P23207.....	6-32
P23208.....	6-36

PART SHEET	PAGE
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P23209.....	7-4
P23335.....	6-22
P23336.....	6-24
P23485.....	9-6



1

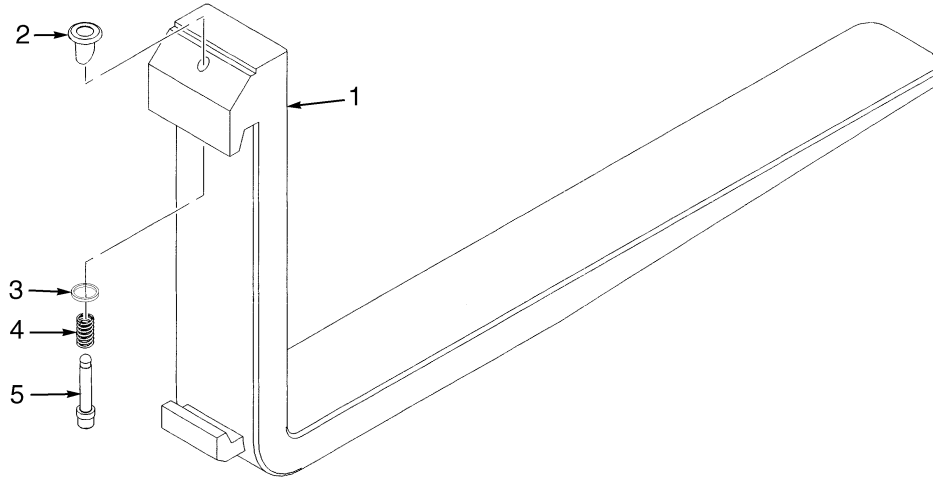
GENERAL TRUCK



SECTION 1 GENERAL TRUCK

DESCRIPTION	PAGE
COUNTERWEIGHT	1-6
COWL MOUNT	1-10
FLOORPLATES AND COVERS	1-12
FORKS	1-2
OPTIONAL	1-3
FULL SUSPENSION SEAT	
MANUAL HYDRAULIC - NON-SWIVEL	1-20
SHEET 2 OF 2	1-24
HOOD	1-16
LABELS	
SHEET 1 OF 2	1-26
SHEET 2 OF 2	1-28
LOAD BACKREST EXTENSION	1-4
NON SUSPENSION SEAT	
WITHOUT ELECTRONIC CONTROLS	1-18
OVERHEAD GUARD	1-8

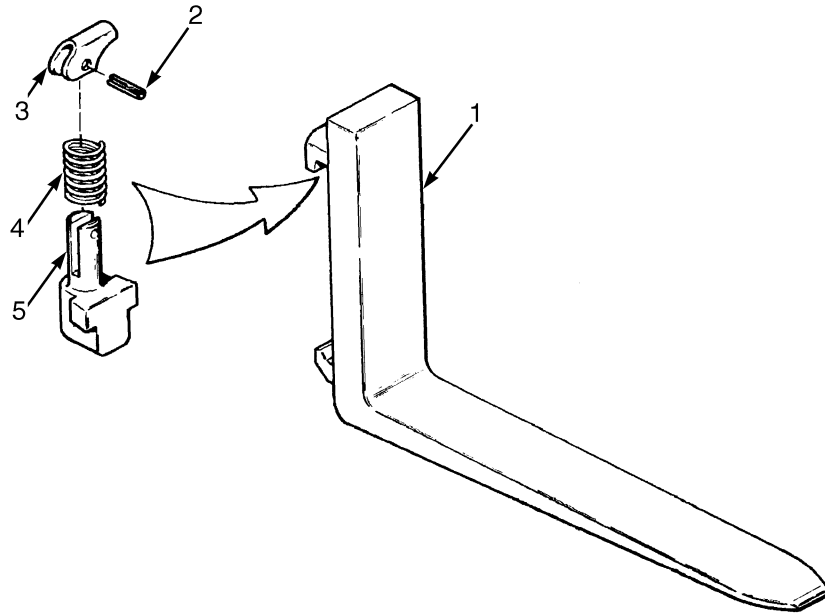
FORKS (FIGURE 1-1)



BP000177

ITEM	PART NO.	DESCRIPTION	QTY
1	504111202	Fork (42 in.)	2
1	504111203	Fork (48 in.)	2
2	580034999	Knob	2
3	580035001	Pin	2
4	580026749	Spring	2
5	580035000	Pin	2
	580035002	Kit-Latch	2

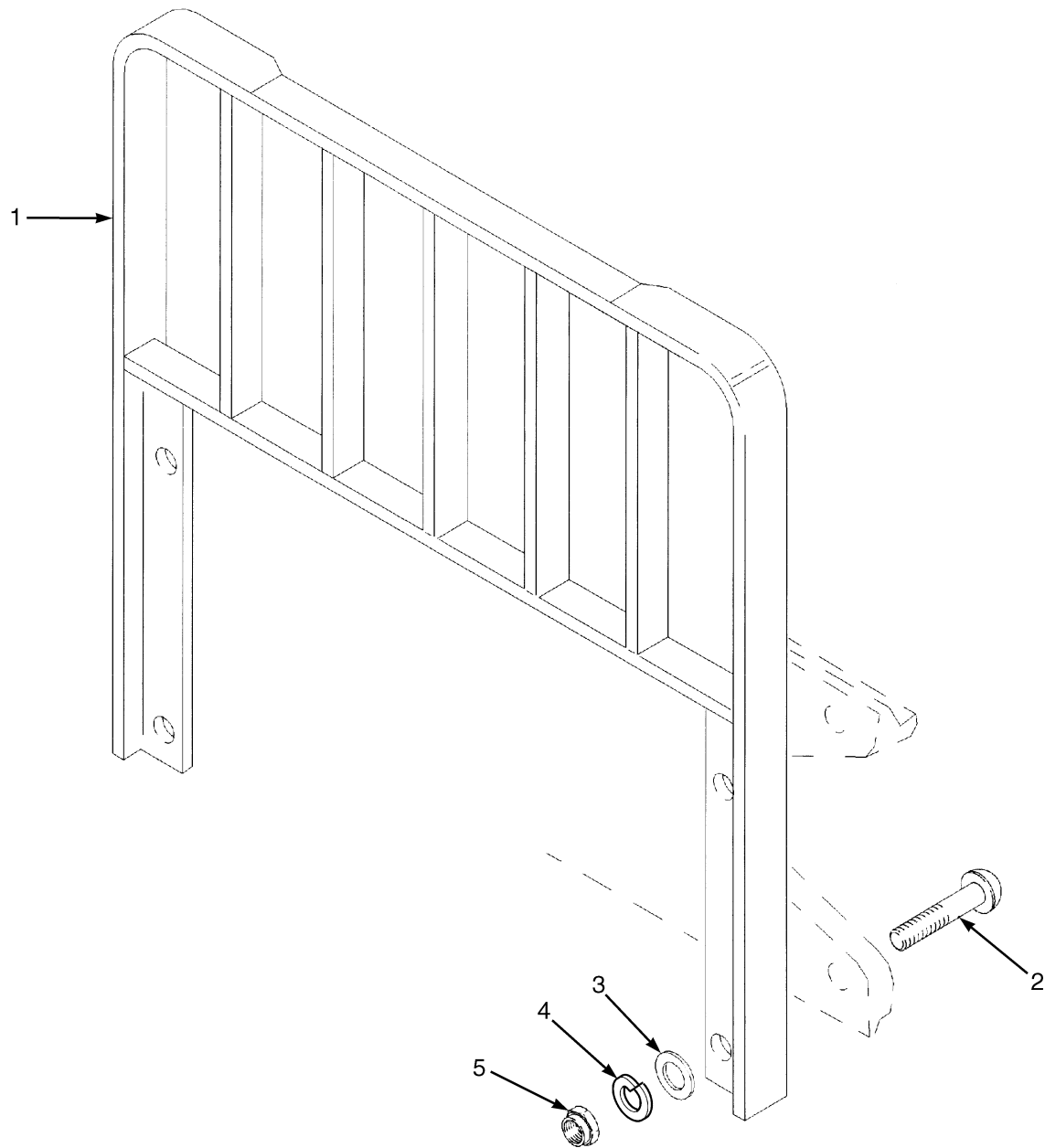
FORKS (FIGURE 1-2) **OPTIONAL**



HP120793

ITEM	PART NO.	DESCRIPTION	QTY
1	524199303	Fork (42 in.)	2
2	580006844	Roll Pin	2
3	580006843	Latch	2
4	580006842	Spring	2
5	580049861	Pin	2
	580049860	Kit-Latch (Class II)	1

LOAD BACKREST EXTENSION (FIGURE 1-3)



HP120836



LOAD BACKREST EXTENSION

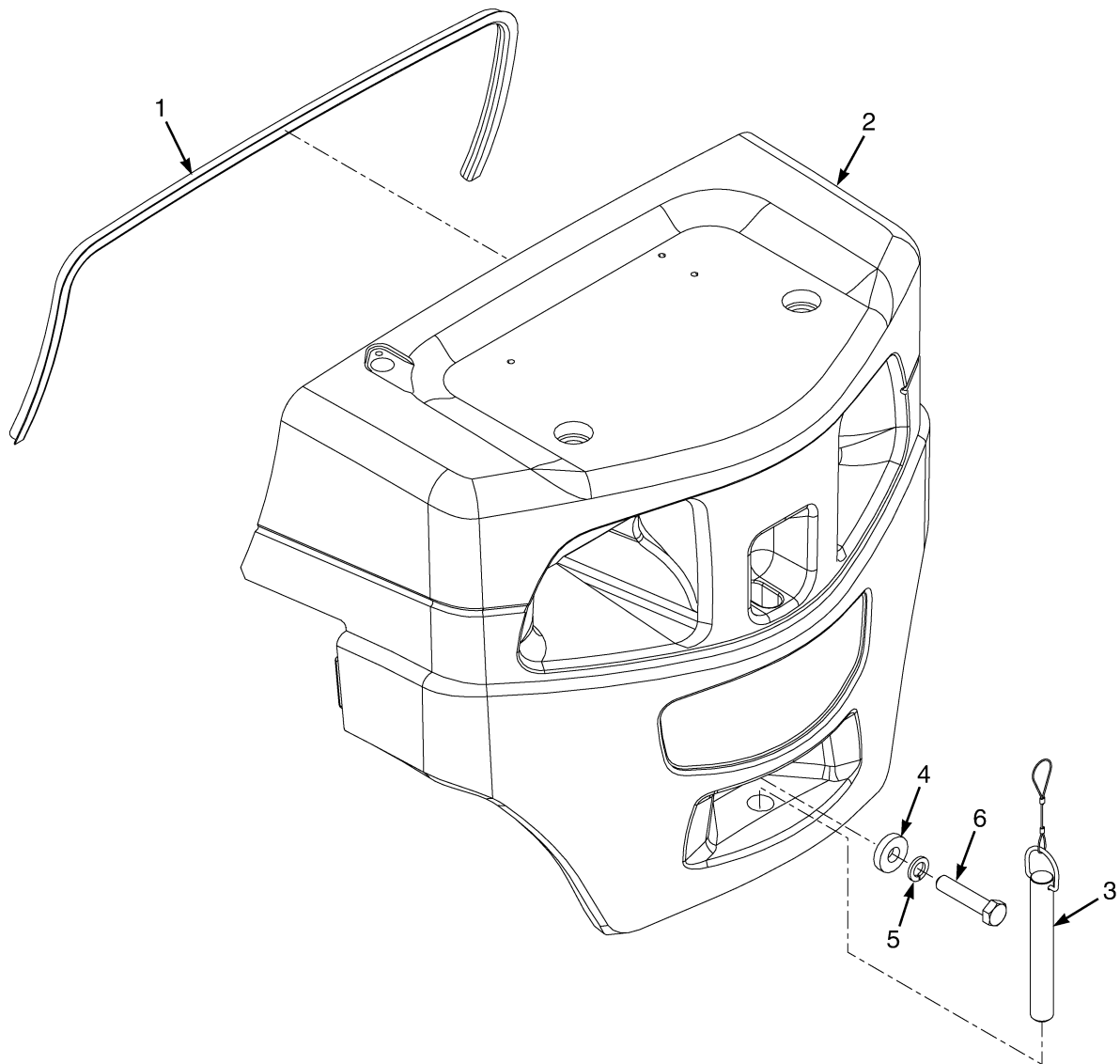
KEY:

A: For Use With Standard Carriage Only

B: For Use With Integral Side-Shift Carriage Only

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	524310196	Load Backrest (38.5 in.)	1	..
1	524310197	Load Backrest (42 in.)	..	1
2	501749901	Capscrew	..	4
2	505960578	Capscrew	4	..
3	504233271	Washer	4	4
4	061278200	Washer	4	4
5	909882405	Nut	4	4

COUNTERWEIGHT (FIGURE 1-4)



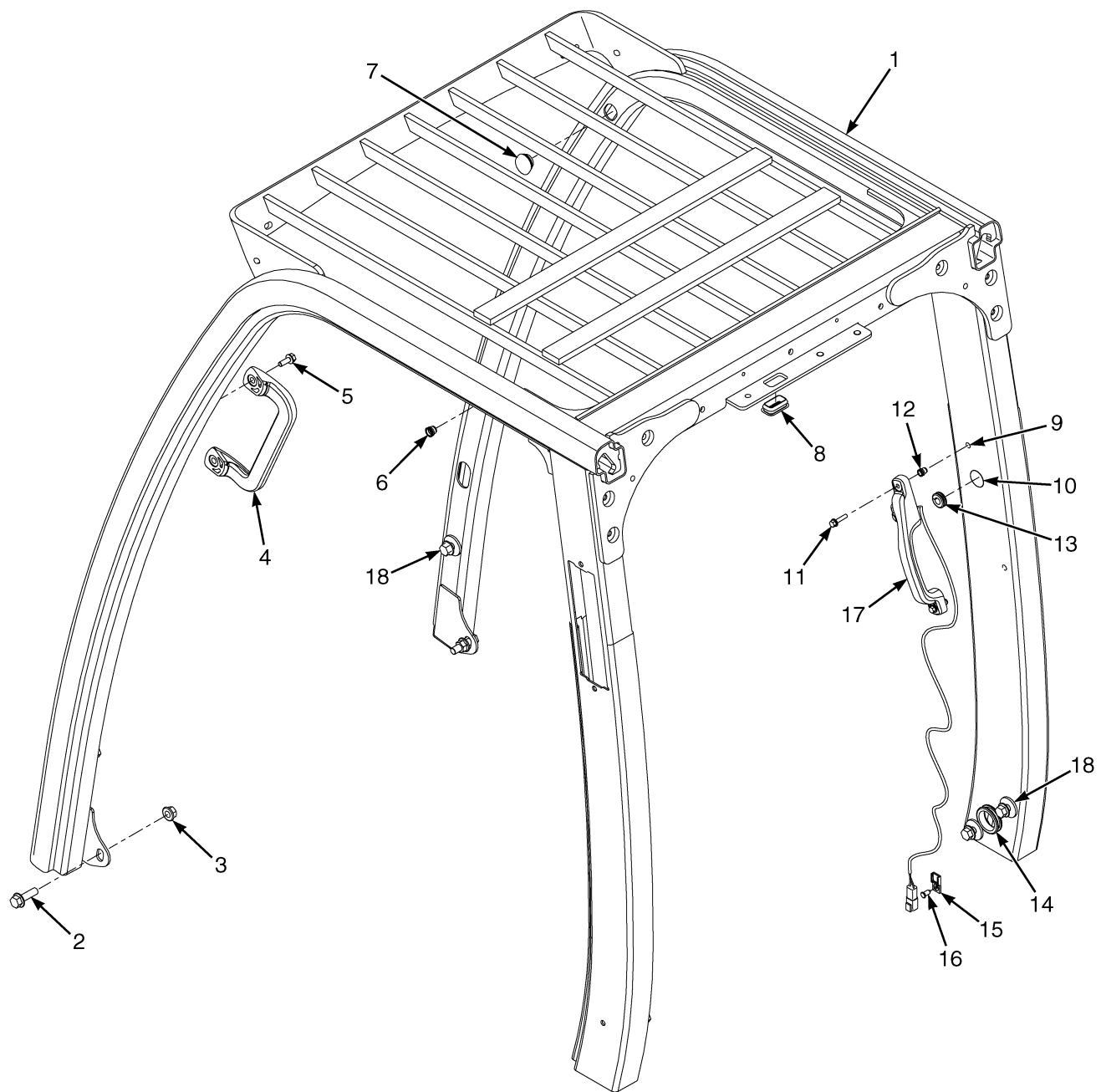
BP120686



COUNTERWEIGHT

ITEM	PART NO.	DESCRIPTION	QTY
1	580051185	Seal	1
2	550005006	Counterweight	1
3	580080171	Tow Pin	1
4	580002019	Washer	1
5	955400911	Washer	1
6	449001406	Capscrew	1

OVERHEAD GUARD (FIGURE 1-5)



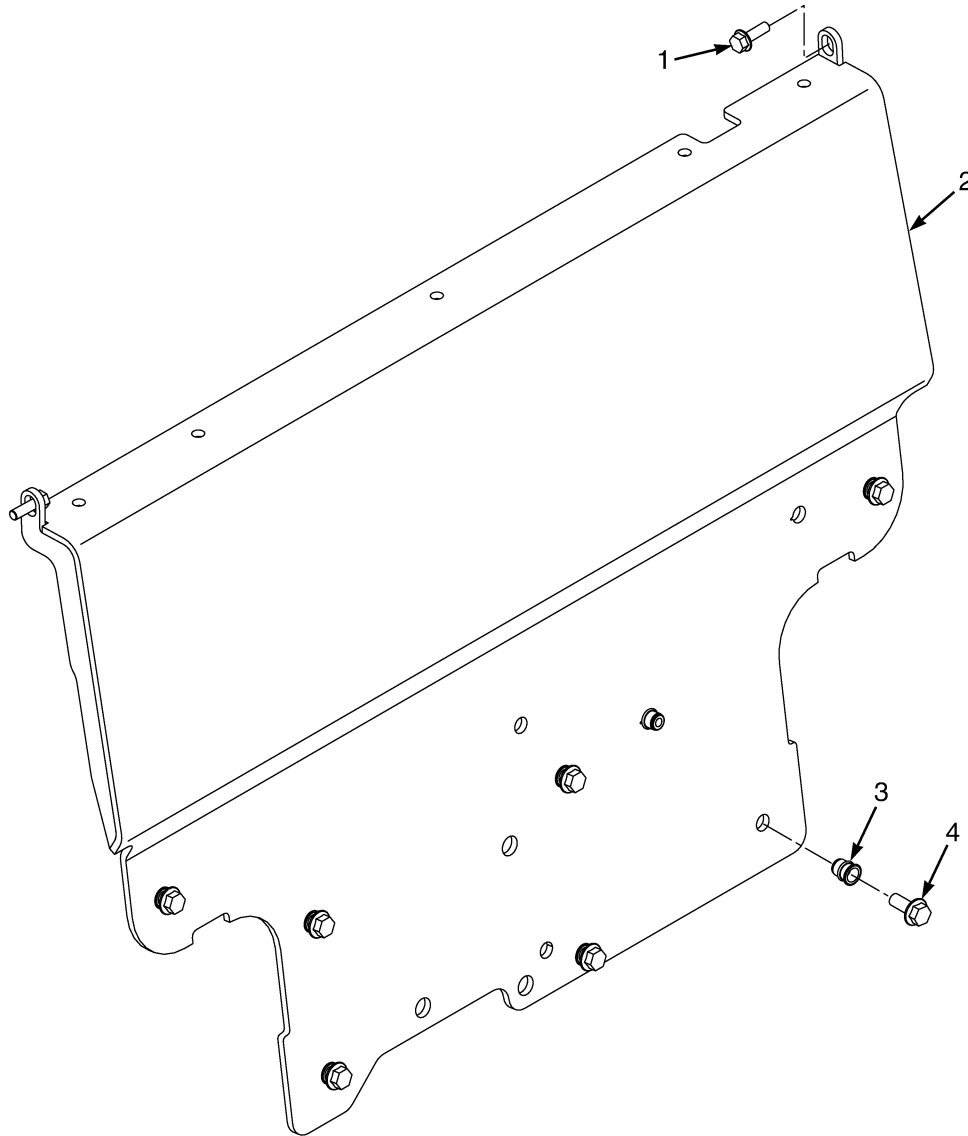
BP120689



OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	524240422	Overhead Guard	1
2	582015340	Capscrew	2
3	580004218		
	580056528	Nut (Shoulder)	2
4	580056526	Handle (Grab)	1
5	580056815	Capscrew	2
6	580044861	Insert	4
7	580090887	Grommet	2
8	524208883	Grommet	1
9	258979300	Plug	4
10	524240692	Plug	1
11	580058212	Capscrew	2
12	580041704	Insert	2
13	580063390	Grommet	1
14	500136904	Grommet	1
15	580026812	Clip	1
16	580056613	Fastener	1
17	580051747	Handle Assembly	1
17	580050959	Handle	1
17	580058447	Push Button Switch	1
17	580022893	Connector	1
17	505968540	Connector (Secondary Lock)	1
17	505968514	Terminal (Pin)	1
18	580056667	Capscrew	6
18	580051941	Capscrew (Optional)	6

COWL MOUNT (FIGURE 1-6)

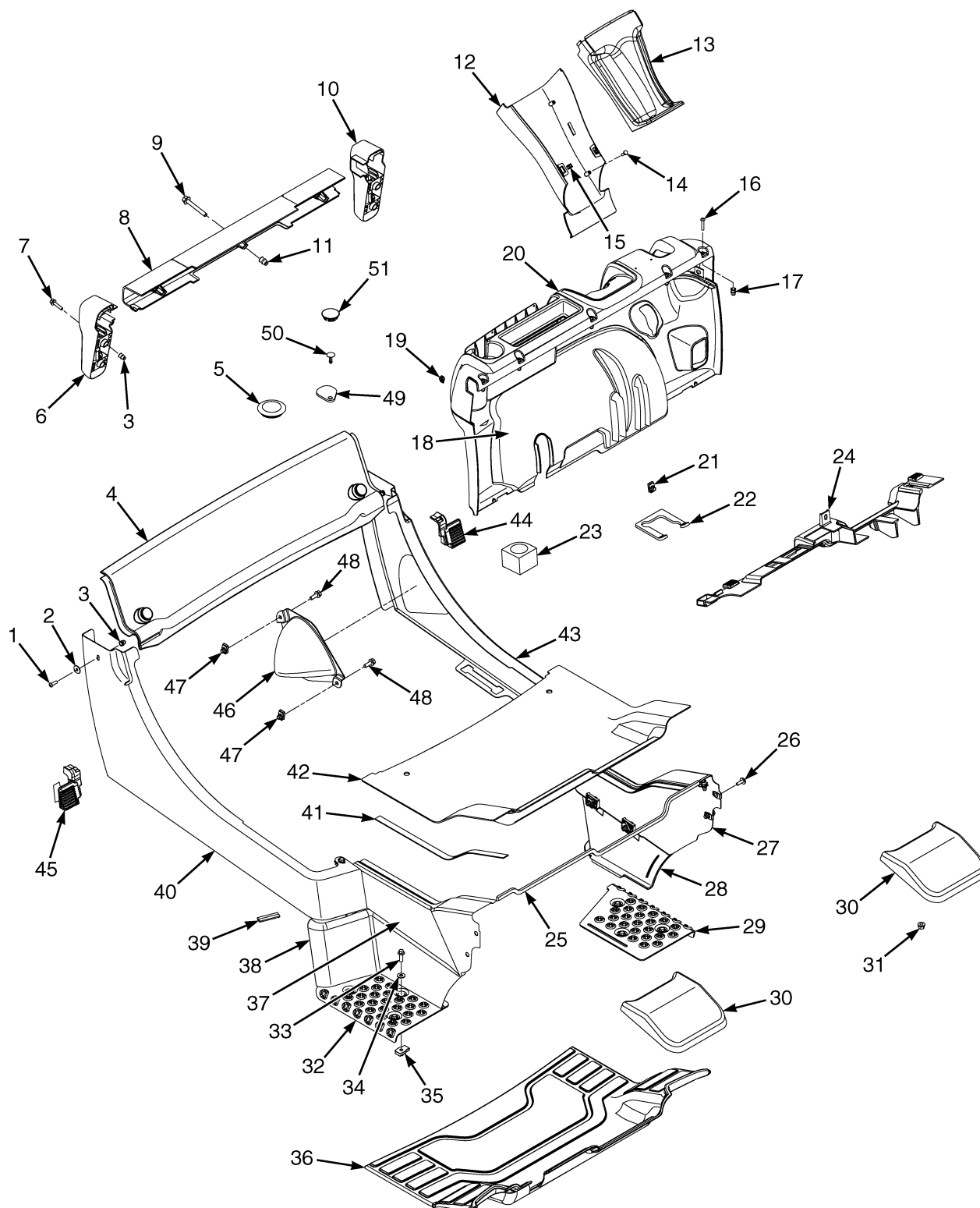


BP120684

ITEM	PART NO.	DESCRIPTION	QTY
1	580056815	Capscrew	2
1	580030966	Capscrew (Optional)	2
2	550007449	Cowl	1
3	580074879	Insert	7
3	580055652	Nut (Optional)	7
3	504071785	Washer (Optional)	7
4	580064483	Capscrew	7

[illegible]

FLOORPLATES AND COVERS (FIGURE 1-7)



BP120813



FLOORPLATES AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	582001890	Capscrew	2
2	582001885	Washer	2
3	580041704	Insert	6
4	580061815	Seal (LH)	1
4	580061814	Seal (RH)	1
4	580058734	Screw	2
4	449021001	Washer	2
4	507353800	Retaining Ring	2
4	524195752	Cover (Radiator)	1
5	922365300	Cap	4
6	580092936	Tail Light Base (RH)	1
7	580058212	Capscrew	4
8	580048561	Cover (Rear) (Crossmember)	1
9	580041711	Capscrew	3
10	580092937	Tail Light Base (LH)	1
11	580044859	Insert	3
12	580046138	Cover (Steering Column Lower)	1
13	580083020	Cover (Steering Column Upper)	1
14	909904403	Screw	2
15	580046139	Clip	6
16	582001891	Capscrew	5
17	580044859	Insert	5
18	580053146	Panel (Kick)	1
19	580046139	Clip	6
20	580052910	Dash Panel	1
20	580052409	Cup Holder	1
21	580026621	Nut	17
22	580055698	Seal	1
23	580038033	Grommet	1
24	580056531	Cover Plate Assembly	1
24	580052974	Cover	1
25	580045192	Seal	1
26	580056815	Capscrew	17
27	524188740	Panel (Front)	1
28	580087185	Step Panel (LH)	1
29	582010050	Plate (LH Tread)	1
30	580050478	Mud Flap	2
31	580042963	Locknut	4
32	580096406	Plate (RH Tread)	1
33	582004500	Capscrew	6
34	580056003	Washer	6
35	580012987	Nut (Clip)	6
36	580054070	Floormat	1
37	524188745	Panel (Front)	1
38	580087184	Step Panel (RH)	1
39	580056224	Trim Seal	2
40	550028659	Panel (Rear)	1
41	580050773	Seal	2
42	582015453	Floorplate	1
43	b 550028661	Panel (Rear) (LH)	1
43	a 550028660	Panel (Rear) (LH)	1

FLOORPLATES AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
44	580054710	Seal (LH)	1
45	580052993	Seal (RH)	1
46	a 524149438	Shield (Splash)	1
47	a 580026621	Nut	2
48	a 580056815	Capscrew	2
50	a 580049758	Fastener	4
51	b 580070654	Plug (Yellow)	1

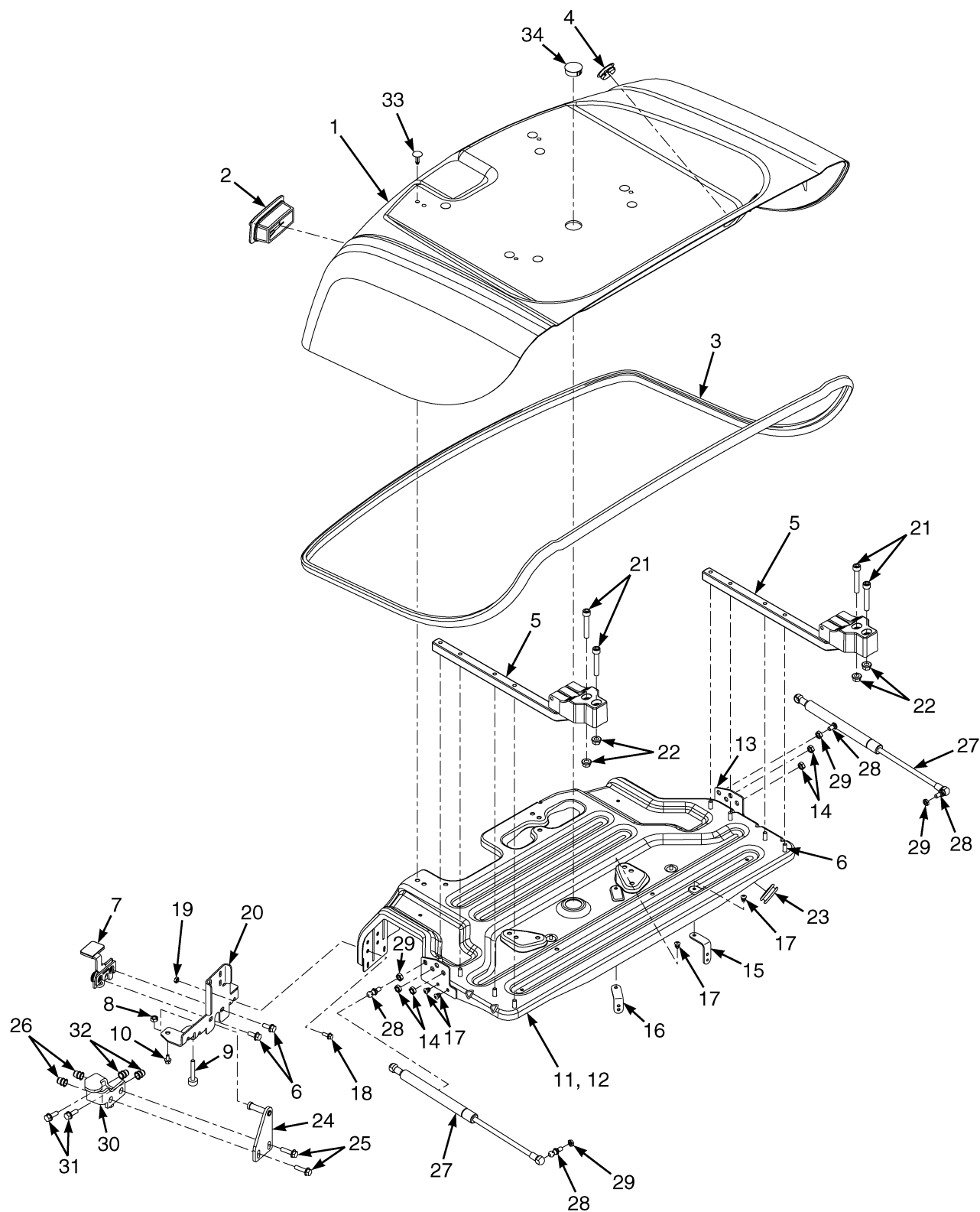
FOOTNOTES:

a Diesel Engine

b LPG Engine

[illegible]

HOOD (FIGURE 1-8)



BP120677



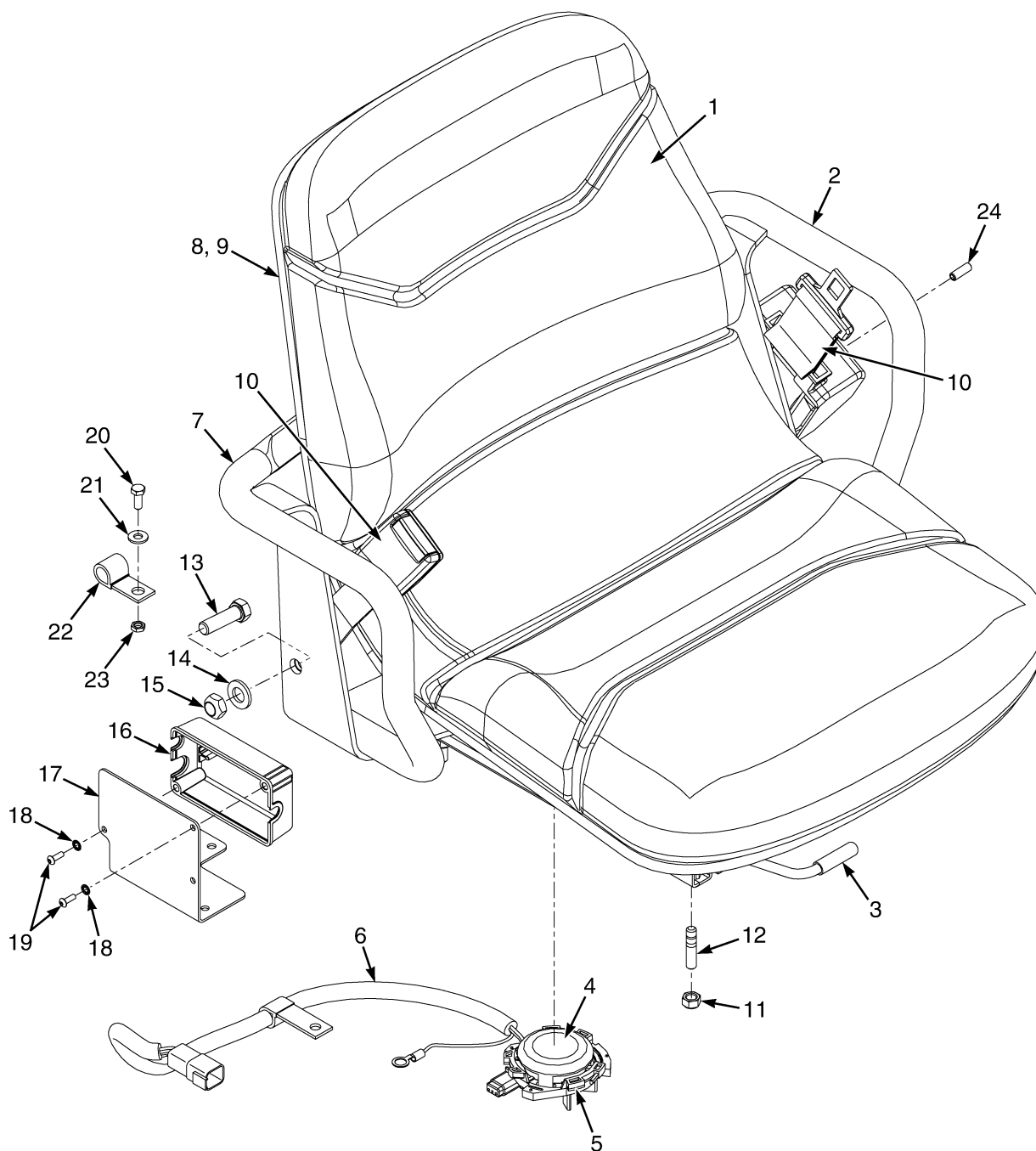
HOOD

ITEM	PART NO.	DESCRIPTION	QTY
	550015595	Hood	1
1	550015378	Hood	1
2	580084480	Boot	1
3	580054201	Seal	1
4	524255979	Plug (Gold)	2
5	580054196	Hinge	2
6	580049231	Capscrew	10
7	580084478	Latch	1
8	580004592	Nut	2
9	580058383	Bumper (Hood)	2
10	580039900	Capscrew	6
11	580087164	Seat Pan	1
12	580065405	Hood Reinforcement	1
13	580065388	Bracket	2
14	518805632	Nut	10
15	580058135	Bracket	1
16	580064907	Bracket	1
17	580065386	Capscrew	6
18	580049011	Capscrew	4
19	580091885	Nut	4
20	580085970	Plate	1
21	580023008	Capscrew	4
22	580027572	Nut	4
23	580051832	Grommet	1
23	582014835	Grommet (Alternate Part)	1
24	580084483	Striker Bolt	1
25	580049229	Capscrew	2
26	580044860	Insert	2
27	580056664	Gas Spring (RH)	1
27	580056664	Gas Spring (LH)	1
27	a 582004571	Gas Spring (LH)	1
28	580049915	Ball Stud (RH)	2
28	580049915	Ball Stud (LH)	2
28	a 582004516	Ball Stud (LH)	2
29	580004592	Nut	2
30	580086342	Hood Support	1
31	580056815	Capscrew	2
32	580044860	Insert	2
33	580049758	Fastener	8
34	580058137	Plug	1

FOOTNOTES:

a With lift and latch option

**NON SUSPENSION SEAT (FIGURE 1-9)
WITHOUT ELECTRONIC CONTROLS**



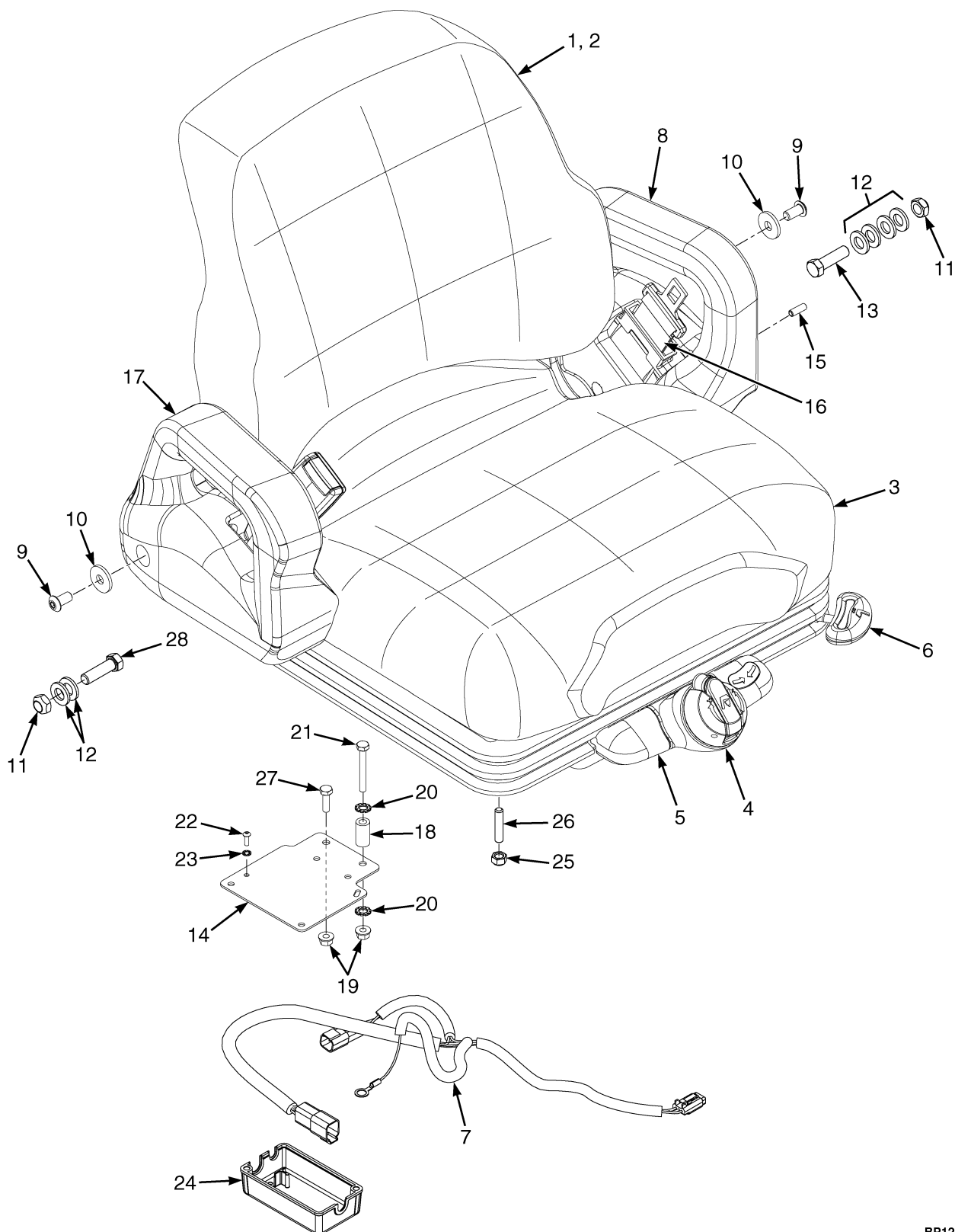
BP120693



**NON SUSPENSION SEAT
WITHOUT ELECTRONIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
	582003574	Seat-Non Suspension (Vinyl)	1
1	580049906	Kit-Seat Cushion (Vinyl)	1
2	580049892	Hip Restraint (LH)	1
3	580090679	Kit-Seat Rail	1
4	580097531	Sensor (Operator Presence)	1
5	582000813	Bracket (Operator Presence Sensor)	1
6	582005028	Wire Harness	1
7	580049893	Hip Restraint (RH)	1
8	580056926	Storage Box	1
9	580018614	Cover	1
10	580062078	Kit-Seat Belt (Black)	1
10	524281279	Kit-Seat Belt (Red)	1
11	449015098	Nut	4
12	580087659	Stud	4
13	520082877	Capscrew	2
14	580056005	Washer	6
15	502097909	Locknut	2
16	580092987	Cover (Seat Side Electrical)	1
17	582002621	Cover Plate	1
18	940400905	Washer	2
19	580092732	Capscrew	2
20	449001412	Capscrew	2
21	016103500	Washer	1
22	580046396	Clamp	1
23	580060018	Nut	2
24	023021000	Roll Pin	1

FULL SUSPENSION SEAT (FIGURE 1-10)
MANUAL HYDRAULIC — NON-SWIVEL



BP120827



FULL SUSPENSION SEAT MANUAL HYDRAULIC – NON-SWIVEL

ITEM	PART NO.	DESCRIPTION	QTY
	582003582	Seat-Full Suspension (Vinyl) (Non-Swivel)	1
1	b 580095476	Kit-Cushion (Seat and Back, Vinyl)	1
2	b 580095474	Kit-Cushion (Back Cushion, Vinyl)	1
2	.....	Back Cushion	1
2	.....	Screw	2
3	b 580095475	Kit-Seat Cushion (Vinyl)	1
3	.....	Seat Cushion	1
3	.....	Spring	2
3	.....	Cotter Pin	2
4	b 580095462	Kit-Weight Adjuster	1
4	.....	Knob	1
4	.....	Bushing	1
4	.....	Washer	1
4	.....	Pin	1
5	b 580095463	Kit-Service (Front Panel) (Non Swivel)	1
5	.....	Front Panel	1
5	.....	Socket Head Capscrew	2
5	.....	Roll Pin	1
6	b 582018841	Kit-Seat Rail	1
6	.....	Locking Rail	1
6	.....	Slave Rail	1
6	.....	Bolt	4
6	.....	Nut	4
7	b 582005028	Wire Harness	1
8	582004126	Armrest (Left-Hand Side)	1
8	582013862	Armrest (Left-Hand Side) (Alternate Part)	1
9	311207098	Screw	2
10	580057451	Washer	2
11	502097909	Locknut	2
12	580056005	Washer	6
13	520082877	Capscrew	2
14	582002534	Cover Plate	1
15	023021000	Roll Pin	1
16	524281279	Kit-Seat Belt (Red)	1
16	580062078	Kit-Seat Belt (Black)	1
17	580084956	Armrest (Right-Hand Side)	1
18	582002535	Spacer	2
19	518803677	Nut	4
20	940600907	Washer	2
21	062151600	Capscrew	2
22	580092732	Capscrew	2
23	940400905	Washer	2
24	580092987	Cover (Seat Side Electrical)	1
25	504230271	Nut	4
26	580087659	Stud	4
27	203142800	Capscrew	2
28	582014024	Capscrew	1
	c 312850042	Strap Clamp	1
	bc 580014465	Information Case (Kit)	1
	b 582012046	Bracket (Angle Controller)	1



P22068 05-10

**FULL SUSPENSION SEAT
MANUAL HYDRAULIC – NON-SWIVEL**

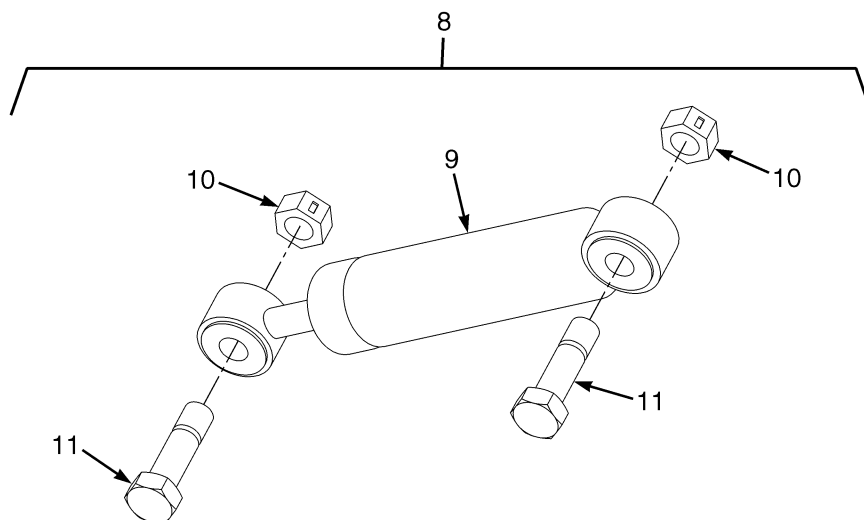
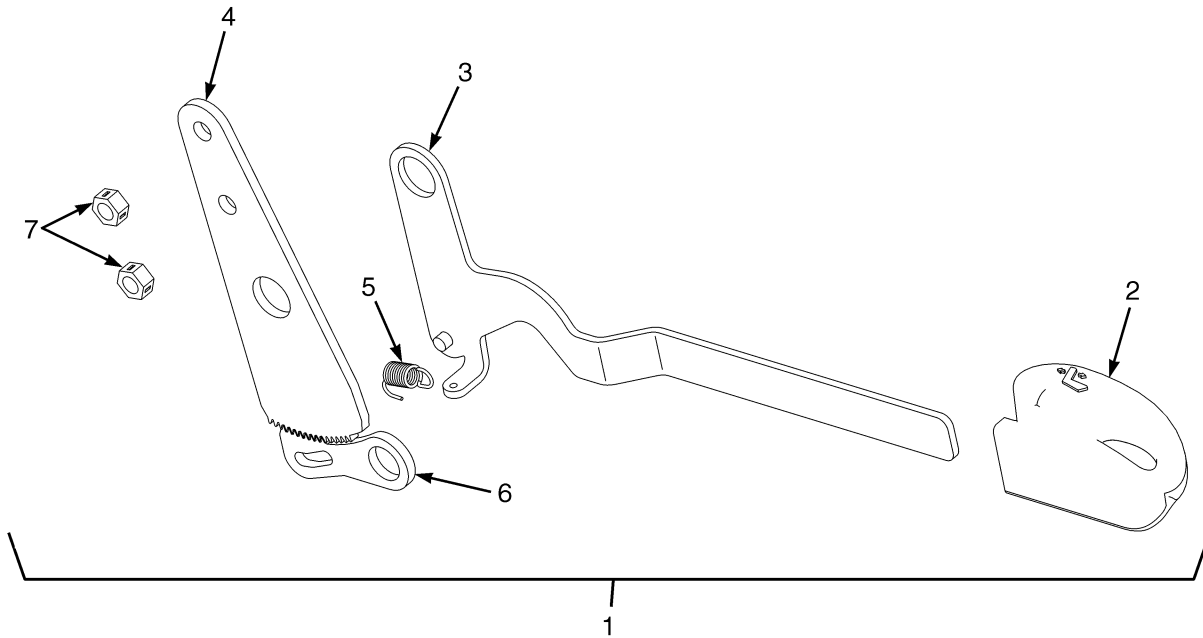
ITEM	PART NO.	DESCRIPTION	QTY
	b 580049884	Sensor (Operator Presence)	1
	580095465	Kit-Service Internal Tether-80 MM Travel	1
	a 582015786	Kit Non Swivel Set	1

FOOTNOTES:

- a** Also includes Tether and 580095461 Kit-Recliner on Sheet 2 **c** Not Illustrated
- b** Included with Seat

[illegible]

FULL SUSPENSION SEAT (FIGURE 1-11)
SHEET 2 OF 2



BP120646



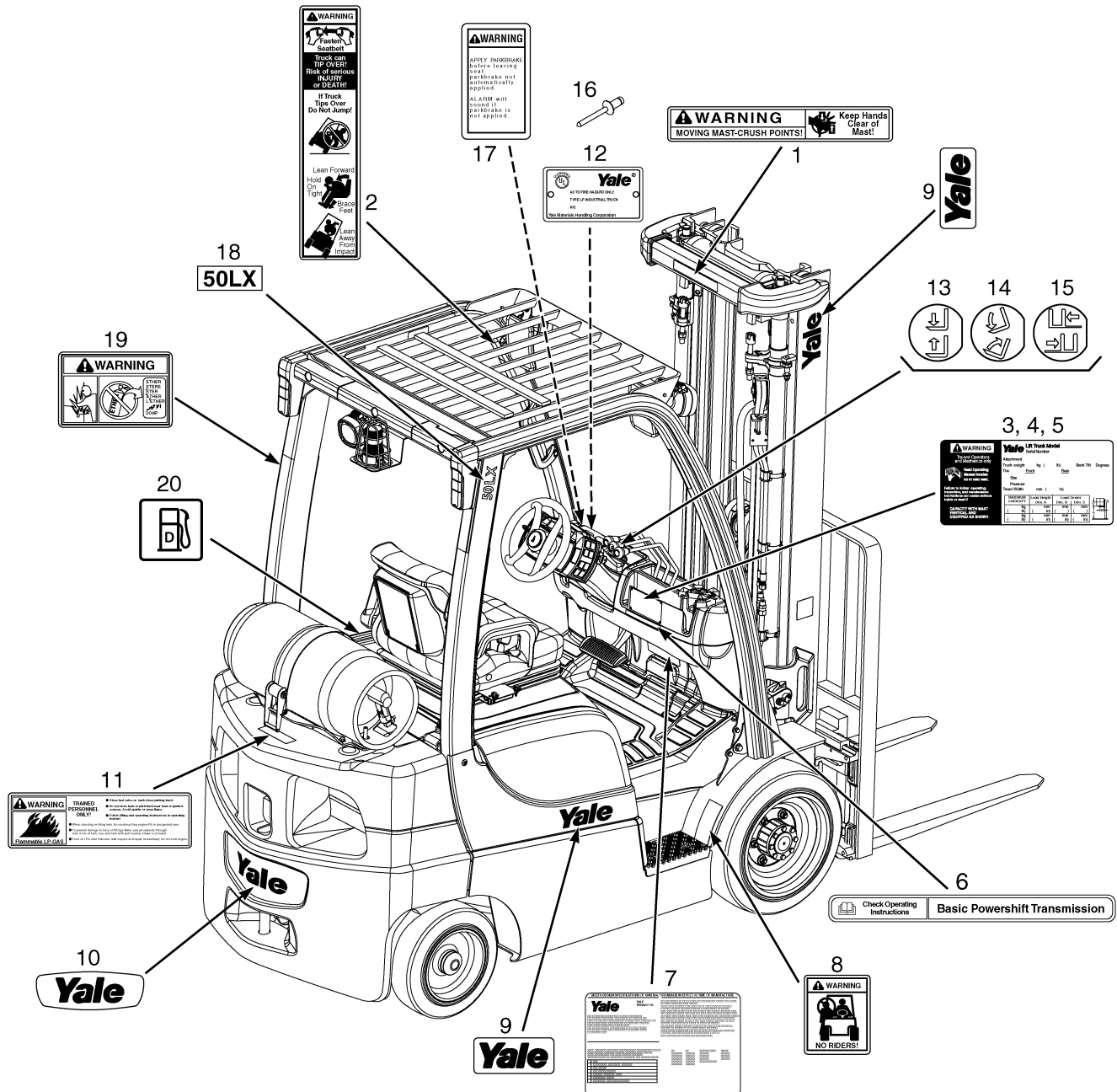
FULL SUSPENSION SEAT
SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	b 580095461	Kit-Recliner (Back Seat Adjustment)	1
2	.....	Knob	1
3	.....	Lever	1
4	580018642	Plate	1
5	.....	Spring	1
6	580018643	Latch	1
7	580057307	Nut	2
8	a 580095460	Kit-Damper Service	1
9	580057260	Damper	1
10	580057307	Nut	2
11	580057266	Bolt	2

FOOTNOTES:**a** Included with Seat**b** Included with Seat and Non Swivel/Swivel Sets

LABELS (FIGURE 1-12)

SHEET 1 OF 2



YP120262



LABELS

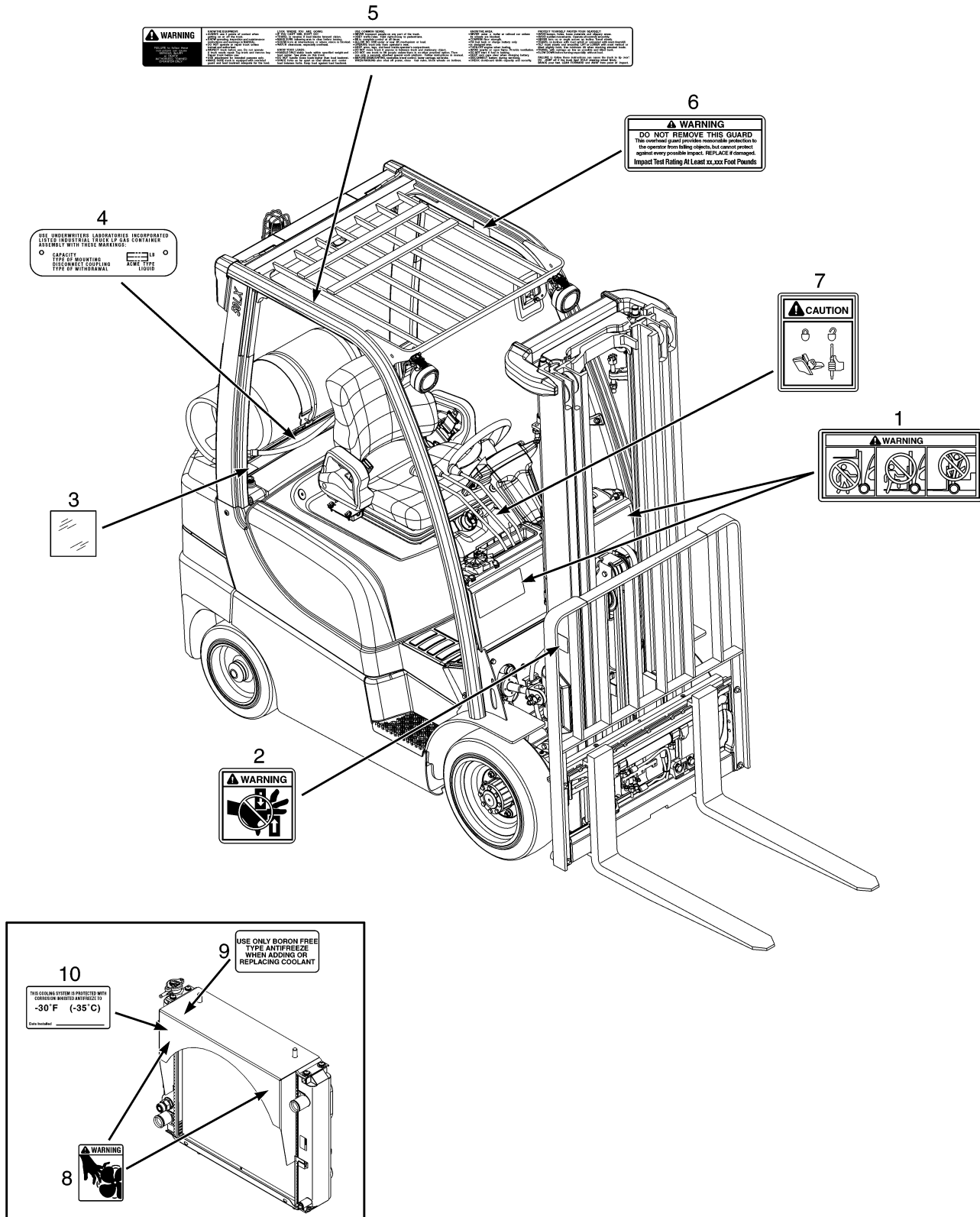
SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	504231215	Label (Mast Warning)	1
2	504231296	Label (Operator Restraint)	1
3	a	Nameplate Tag	1
4	580008064	Nameplate Cover	1
5	505976530	Rivet	4
5	501904907	Rivet (Optional)	4
6	524232141	Label (Standard Transmission)	1
7	524162256	Label (Patents and Trademarks)	1
8	504231248	Label (No Riders)	2
9	524208880	Label (Yale)	1
10	524310789	Label (Yale Logo)	1
11	505977565	Label (Flammable LP-Gas)	1
12	a	U.L. Plate	1
13	580051779	Lens (Lift)	1
14	580051780	Lens (Tilt)	1
15	580051790	Lens (Side-Shift)	1
15	580052203	Lens (Blank)	1
16	505976530	Rivet	4
16	640032905	Rivet (Optional)	1
16	505977584	Gripnail (Optional)	4
17	580056430	Label (Parking Brake Warning)	1
18	550016119	Label (Capacity)	2

FOOTNOTES:

a Contact your local Yale dealer

LABELS (FIGURE 1-13) SHEET 2 OF 2



YP120249



LABELS
SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	580058821	Label (Mast Warning)	2
2	504231252	Label (Pinch Point)	2
3	582006614	Label	1
4	580026933	Nameplate (LP Tank)	1
5	580055312	Label (Operator Warning)	1
6	a	Overhead Guard	1
7	580058357	Label (Locking Gas Spring)	1
7	580058356	Label (Locking Gas Spring)	1
8	505976556	Label (Fan Warning)	1
9	505976545	Label (Antifreeze)	1
10	518806645	Label (Boron-Free Antifreeze)	1

FOOTNOTES:

a Contact your local Yale dealer

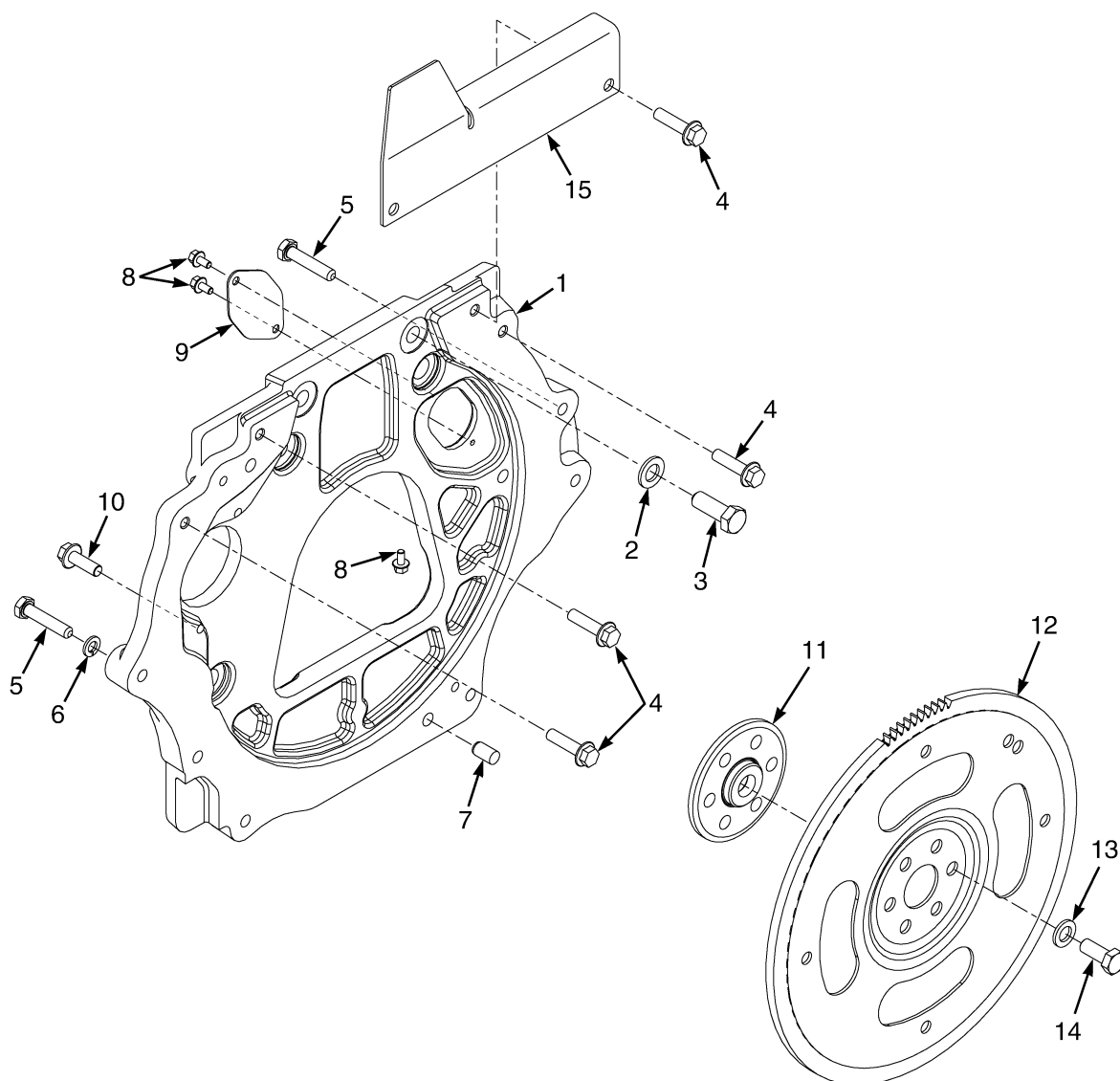
NOTES

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SECTION 2 ENGINE ASSEMBLY

DESCRIPTION	PAGE
ASSEMBLED ENGINE	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-6
CAMSHAFT AND DRIVE GEAR	
YANMAR 2.6L DIESEL	2-40
CAMSHAFT AND VALVES	
MAZDA 2.0L, GASOLINE AND LPG - 2010 EMISSION COMPLIANT ENGINES	2-26
CRANKSHAFT AND PISTONS	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-14
YANMAR 2.6L DIESEL	2-42
CYLINDER BLOCK	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	2-10
YANMAR 2.6L DIESEL	2-44
CYLINDER HEAD	
YANMAR 2.6L DIESEL	2-36
CYLINDER HEAD AND COVER	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	2-8
EMISSION CONTROL SYSTEM	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-22
ENGINE COOLING SYSTEM	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-20
ENGINE MOUNTING	2-4
EXHAUST MANIFOLD	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-18
FLYWHEEL AND HOUSING	
YANMAR 2.6L DIESEL	2-30
FLYWHEEL AND HOUSING ASSEMBLY	
MAZDA 2.0L	2-2
GEAR HOUSING	
YANMAR 2.6L DIESEL	2-32
INTAKE AND EXHAUST MANIFOLD	
YANMAR 2.6L DIESEL	2-28
INTAKE MANIFOLD	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-16
LUBRICATION SYSTEM	
YANMAR 2.6L DIESEL	2-48
OIL PAN	
YANMAR 2.6L DIESEL	2-34
OIL PUMP AND FILTER	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-24
TIMING GEAR COVER AND OIL PAN	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-12
WATER PUMP	
YANMAR 2.6L DIESEL	2-46

FLYWHEEL AND HOUSING ASSEMBLY (FIGURE 2-1)
MAZDA 2.0L



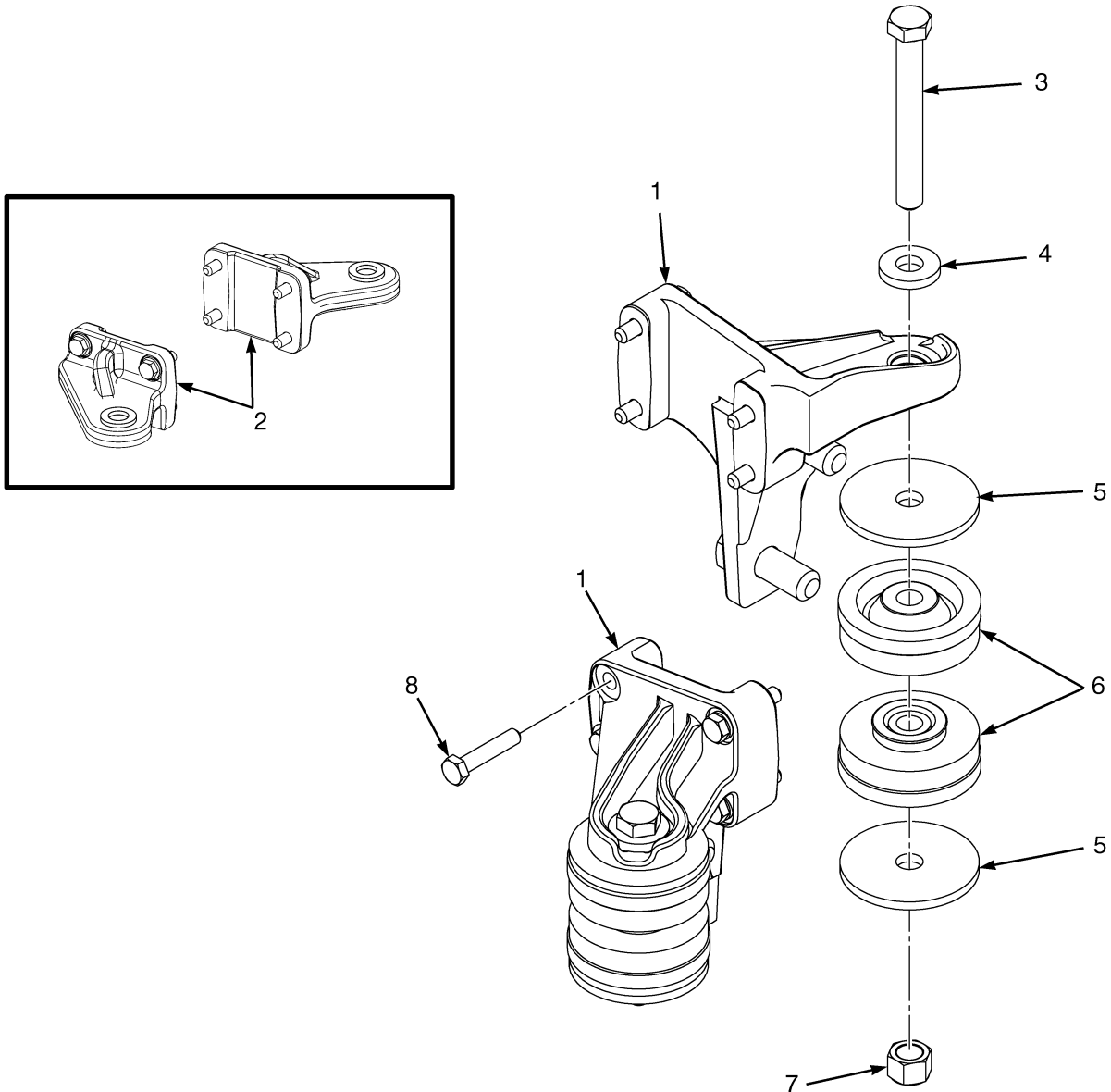
BP090423



**FLYWHEEL AND HOUSING ASSEMBLY
MAZDA 2.0L**

ITEM	PART NO.	DESCRIPTION	QTY
1	580048123	Flywheel Housing	1
2	940102909	Washer	6
3	930903905	Capscrew	6
4	580032011	Capscrew	4
5	449001138	Capscrew	6
6	504057795		
	449022013	Lockwasher	6
7	580050042	Dowel	2
8	580039900	Capscrew	5
9	580070914	Dust Cover	1
10	580046451	Capscrew	2
11	580056439	Hub Adapter	1
12	580064311	Flywheel (With Ring Gear)	1
12	580056441	Flywheel (With Ring Gear)	1
13	502566902	Washer	6
14	580056440	Capscrew	6
15	582005953	Bracket	1
	501702901	Loctite	AR

ENGINE MOUNTING (FIGURE 2-2)



BP090194

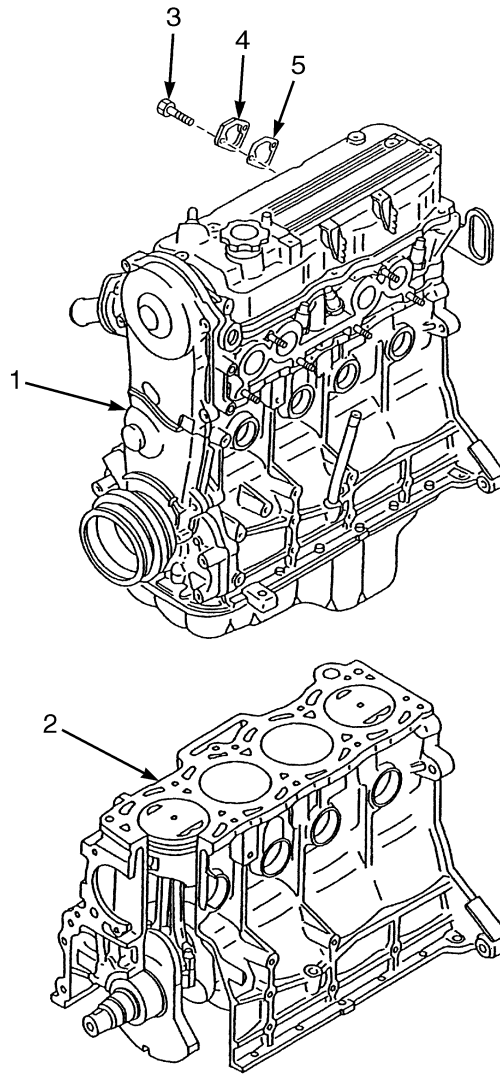


ENGINE MOUNTING

KEY:
A: Mazda Engine
B: Yanmar Diesel Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	580060600	Mount (RH)	1	..
1	580060601	Mount (LH)	1	..
2	580048472	Mount	..	2
3	931017918	Capscrew	2	2
4	580027945	Washer	2	2
5	580048458	Washer	4	4
6	580051383	Isolator	4	4
7	580051384	Nut (Flange)	2	2
8	580056444	Bolt (Flange)	8	8

ASSEMBLED ENGINE (FIGURE 2-3)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



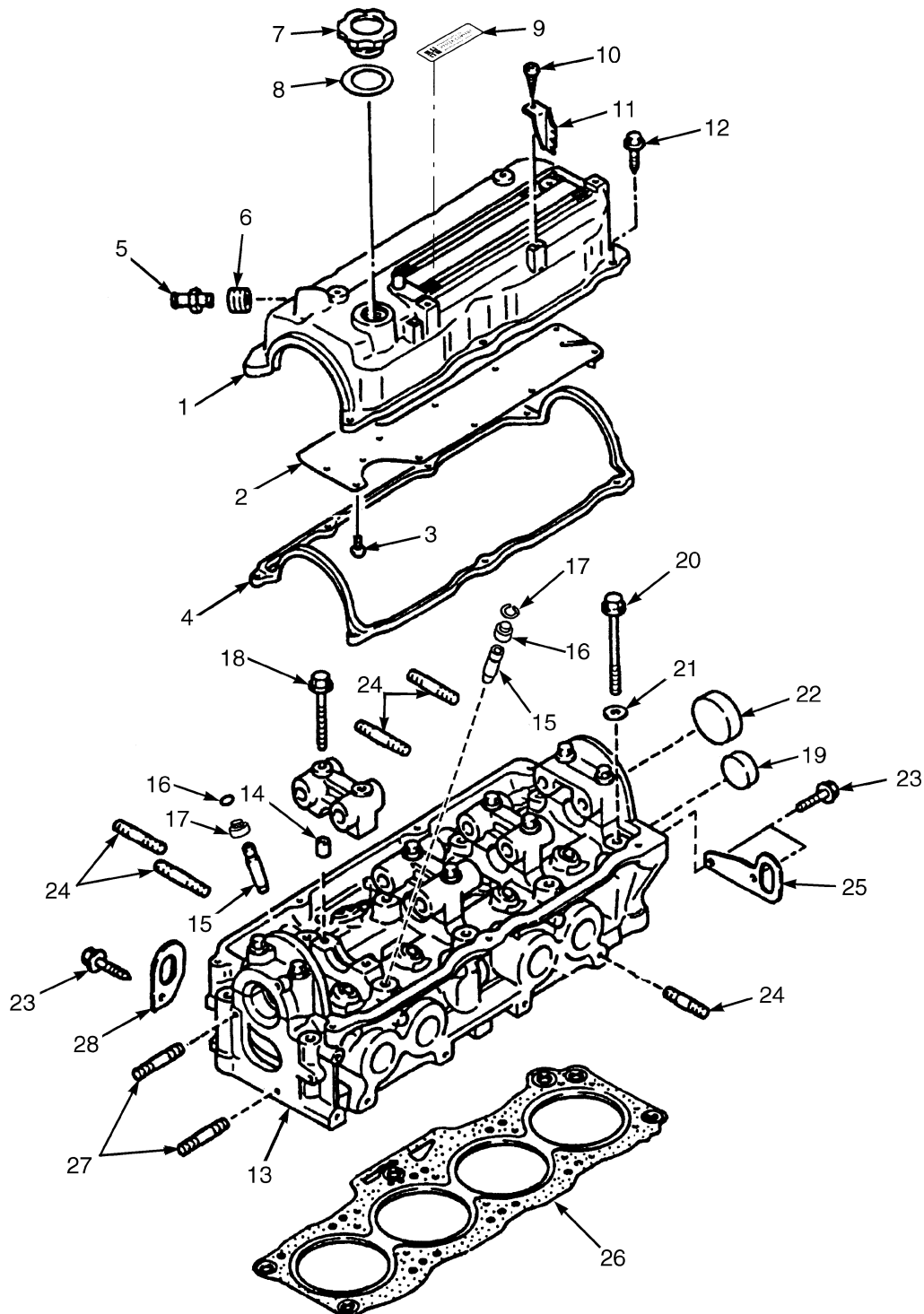
BP090371



ASSEMBLED ENGINE
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	580078922	Long Block	1
2	580053154	Short Block	1
3	901290828	Bolt	2
4	910983100	Cover	1
5	901300827	Gasket	1

CYLINDER HEAD AND COVER (FIGURE 2-4)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



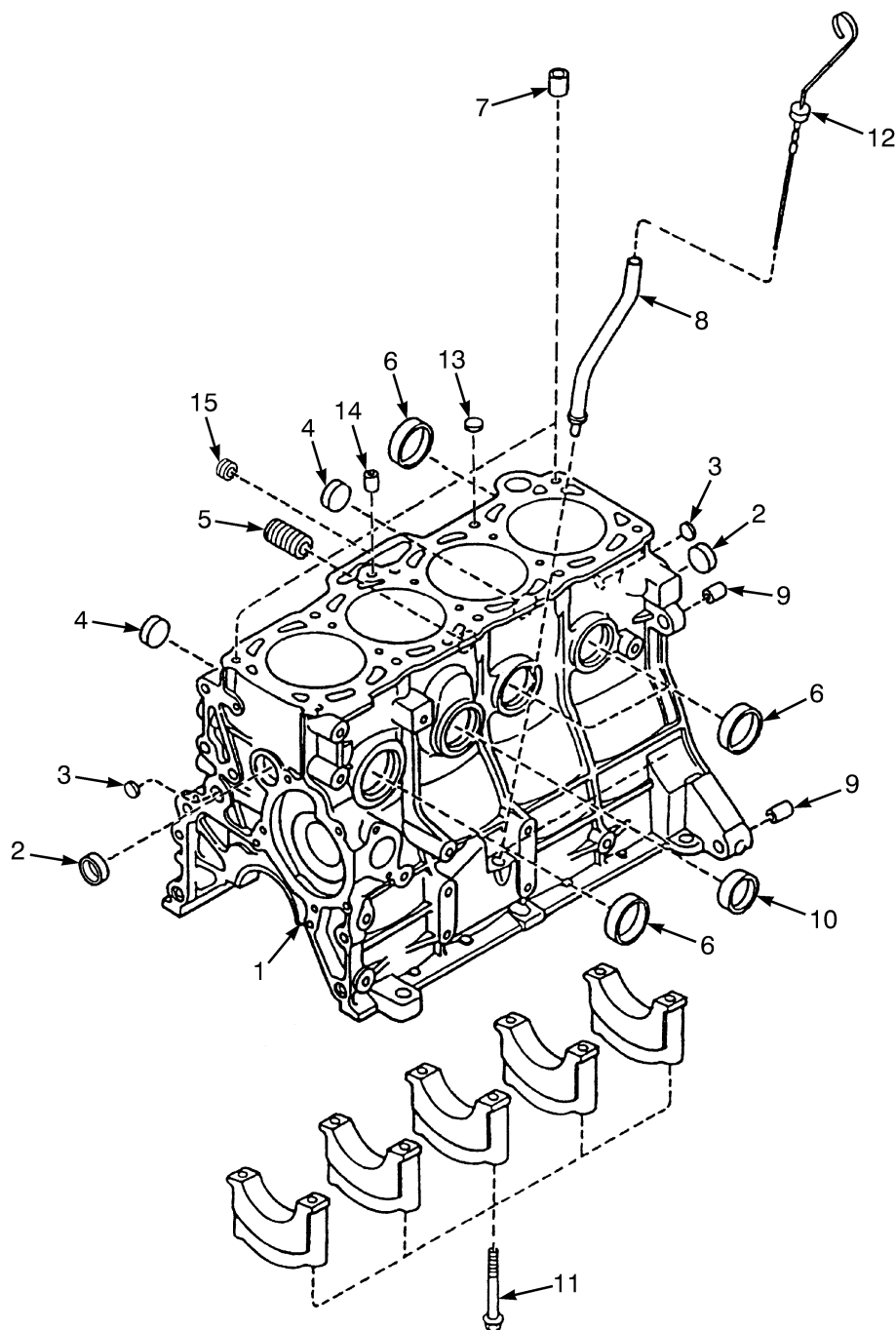


CYLINDER HEAD AND COVER
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block	1
1	901290834	Engine Cover	1
2	901290808	Plate	1
3	901848826	Screw	10
4	901290811	Gasket	1
5	580046873	PCV Valve	1
6	901290818	Seal	1
7	901270814	Cap	1
8	901270815	Gasket	1
9	.....	Label	1
10	901290843	Screw	2
11	505960516	Bracket	2
12	901290825	Bolt	7
13	901290836	Cylinder Head	1
14	901290832	Pin	10
15	901290838	Guide	8
16	901270802	Clip	1
17	b 901274801	Seal (Inlet)	4
17	a 901290837	Seal (Exhaust)	4
18	901290831	Bolt	10
19	901271817	Plug	1
20	901290803	Bolt	10
21	901290804	Washer	10
22	901290806	Cap	8
23	580033512	Bolt	3
24	901085837	Stud	20
25	901290842	Hanger	1
26	504259764	Gasket (Cylinder Head)	1
27	901290829	Stud	2
28	901290816	Bracket	1

FOOTNOTES:**a** Black**b** Red/Brown

CYLINDER BLOCK (FIGURE 2-5)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



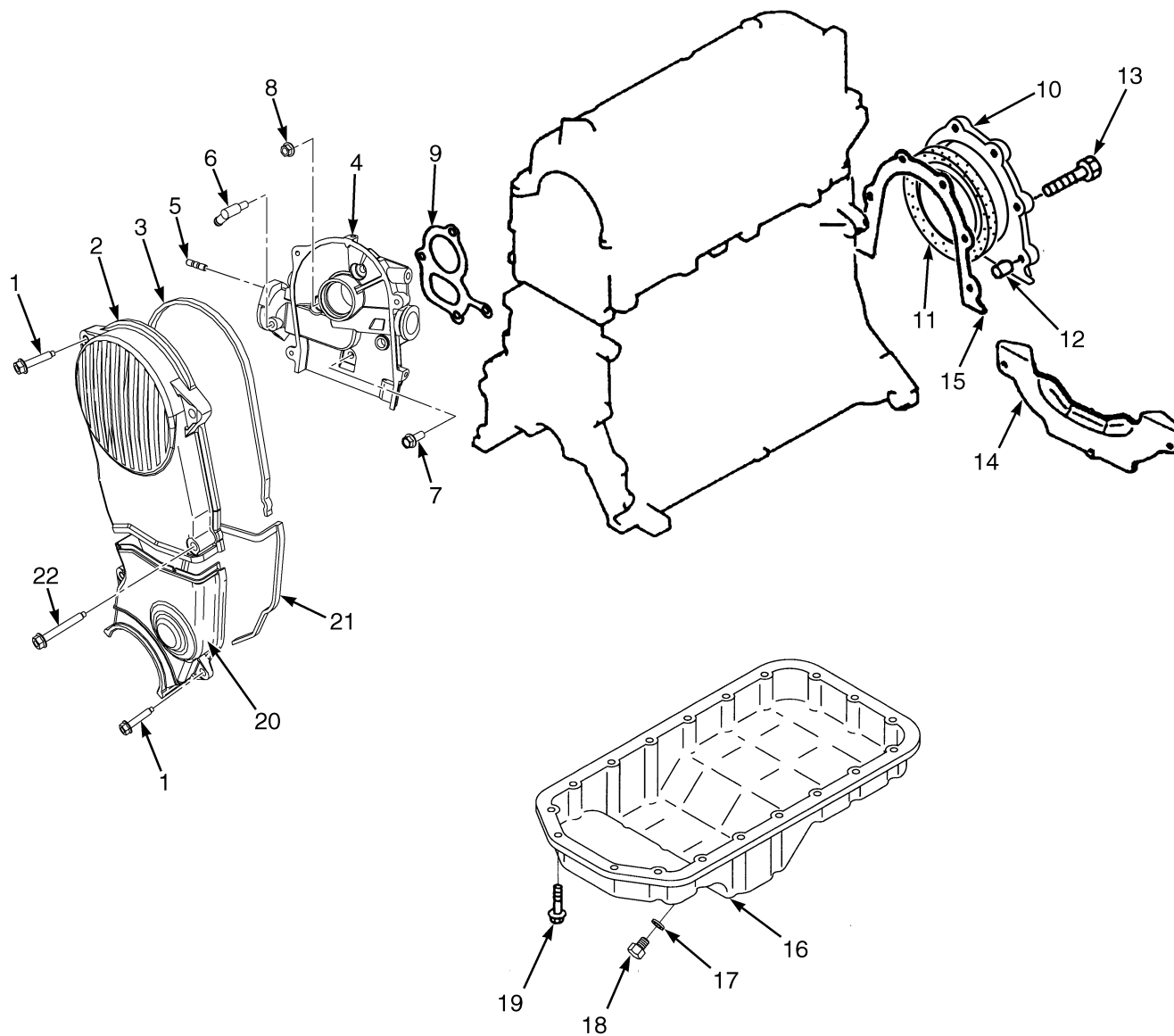
BP090328



CYLINDER BLOCK
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block	1
	580053154	Short Block	1
1	580046879	Cylinder Block	1
2	900542813	Plug	2
3	900281820	Plug	2
4	901015826	Plug	2
5	901291803	Joint Fitting	1
6	901271817	Plug	4
7	901291801	Pin	2
8	901291804	Tube Assy	1
9	901291813	Pin	2
10	901271816	Plug	2
11	901291814	Bolt	10
12	901291807	Dipstick	1
13	900281819	Plug	1
14	901574814	Plug	2
15	580046878	Plug	2

TIMING GEAR COVER AND OIL PAN (FIGURE 2-6)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



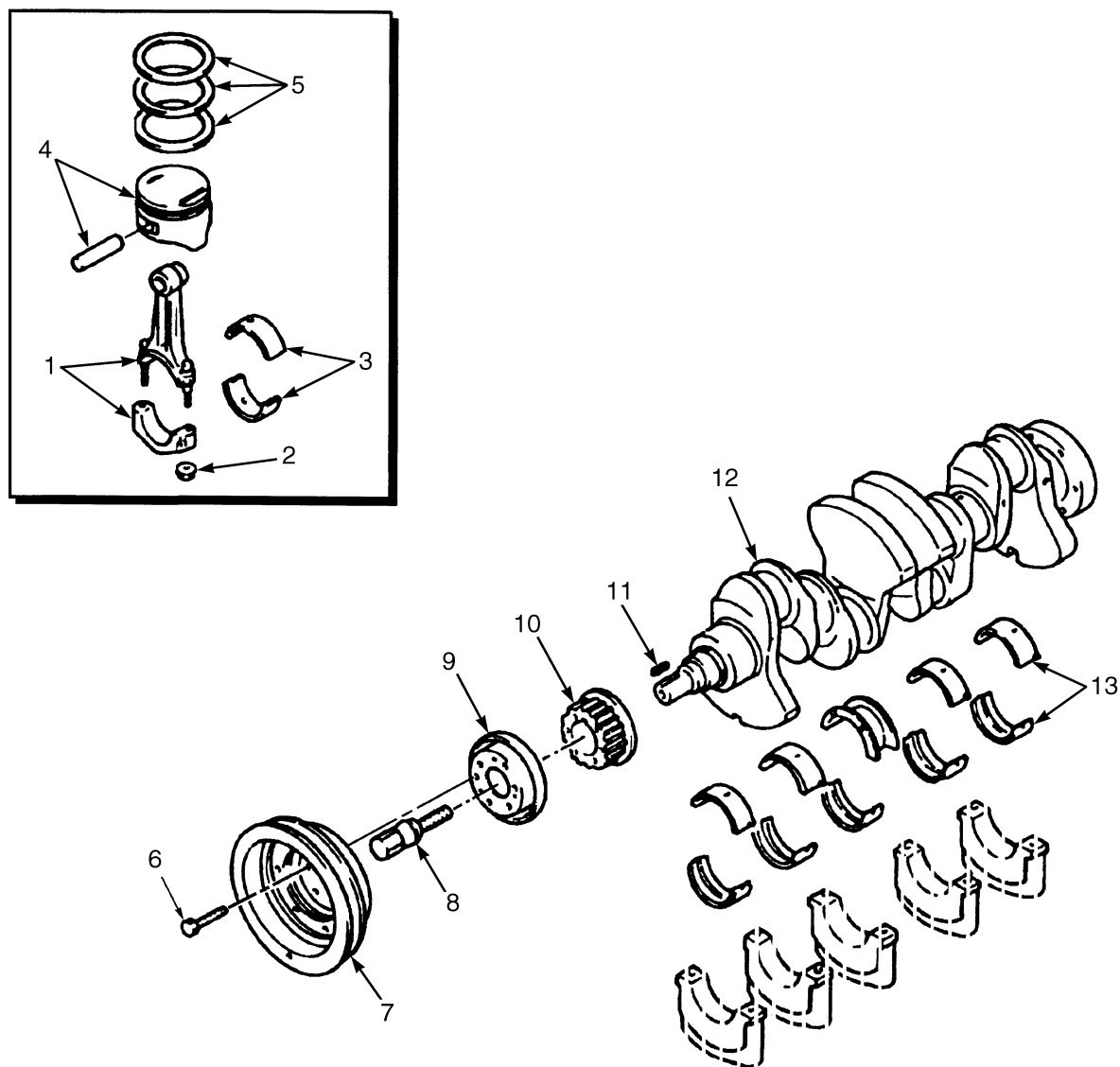
BP090438



TIMING GEAR COVER AND OIL PAN
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block (2.0L LPG)	1
1	901290825	Bolt	5
2	580046886	Cover (Upper Timing Belt) (2.0L)	1
3	580046887	Gasket (2.0L)	1
4	580046885	Housing (2.0L)	1
4	901292811	Oil Seal	1
5	901292816	Stud	2
6	505960594	Connector	1
7	901292819	Screw	2
8	900559852	Nut	2
9	901292831	Gasket	1
10	901292812	Cover	1
11	901292814	Oil Seal (Rear)	1
12	505960538	Pin	2
13	901575820	Bolt	6
14	911378400	Cover (Lower)	1
15	901292832	Gasket	1
16	901292803	Oil Pan (2.0L)	1
17	900543845	Gasket	1
18	901272802	Drain Plug	1
19	901272820	Capscrew	19
20	901575826	Cover	1
21	901575808	Gasket	1
22	901575824	Bolt	1
	504259763	Kit-Gasket	1

CRANKSHAFT AND PISTONS (FIGURE 2-7)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



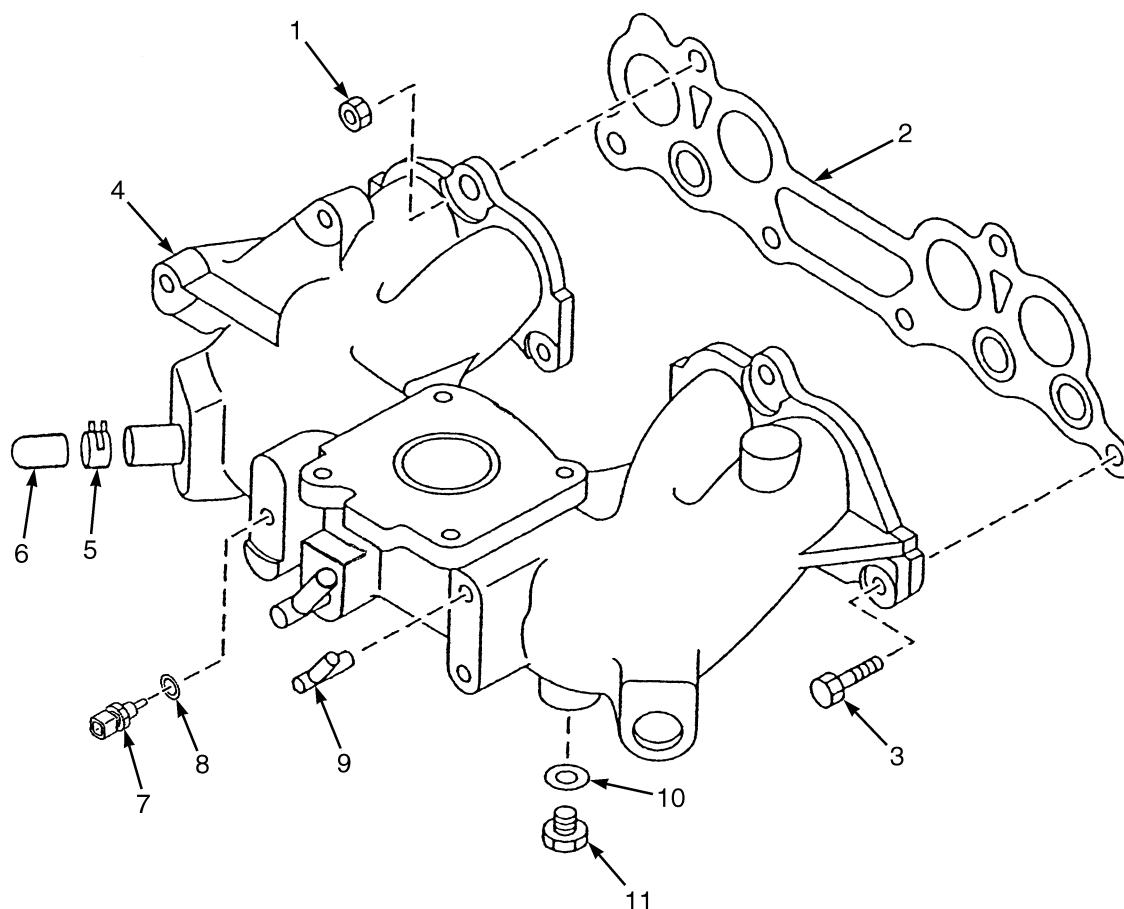
BP090439



CRANKSHAFT AND PISTONS
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block (2.0L, LPG)	1
1	524319552	Piston Rod	4
2	901293825	Nut	2
3	901293811	Piston Rod Bearing (Standard)	1
3	901293812	Piston Rod Bearing (0.25 mm)	1
3	901293813	Piston Rod Bearing (0.50 mm)	1
3	901293814	Piston Rod Bearing (0.75 mm)	1
4	580053173	Piston and Pin (Standard)	4
4	580053177	Piston and Pin (0.25 mm)	4
4	580053175	Piston and Pin (0.50 mm)	4
5	580024213	Kit-Piston Ring (Standard)	1
5	580024215	Kit-Piston Ring (0.25 mm)	1
5	580024214	Kit-Piston Ring (0.50 mm)	1
6	505960536	Bolt	6
7	580046889	Crankshaft Pulley	1
8	504259749	Bolt	1
9	504259748	Plate	1
10	504259745	Pulley	1
11	505960548	Key	1
12	505960503	Crankshaft (2.0L)	1
13	901293861	Kit-Crankshaft Bearing (Standard)	1
13	901293862	Crankshaft Bearing (0.25 mm)	1
13	901293863	Crankshaft Bearing (0.50 mm)	1
13	901293864	Crankshaft Bearing (0.75 mm)	1

INTAKE MANIFOLD (FIGURE 2-8)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



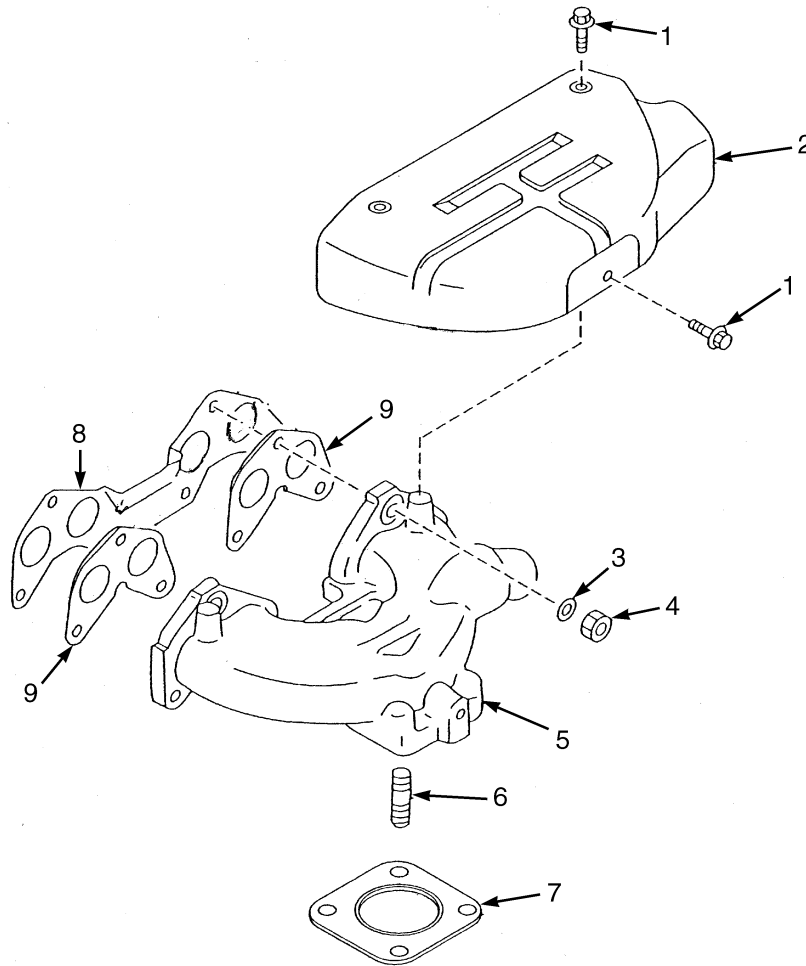
BP090332



INTAKE MANIFOLD
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	900559852	Nut	4
2	580046909	Gasket	1
3	901295811	Bolt	2
4	580089541	Intake Manifold	1
5	580053508	Clamp	1
6	580053803	Cap	1
7	580041817	Sensor (Air Temperature)	1
7	901084817	Plug	1
8	900542824	Washer	1
9	580078951	Connector	1
10	900529808	Seal	1
11	901085825	Bolt	1

EXHAUST MANIFOLD (FIGURE 2-9)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

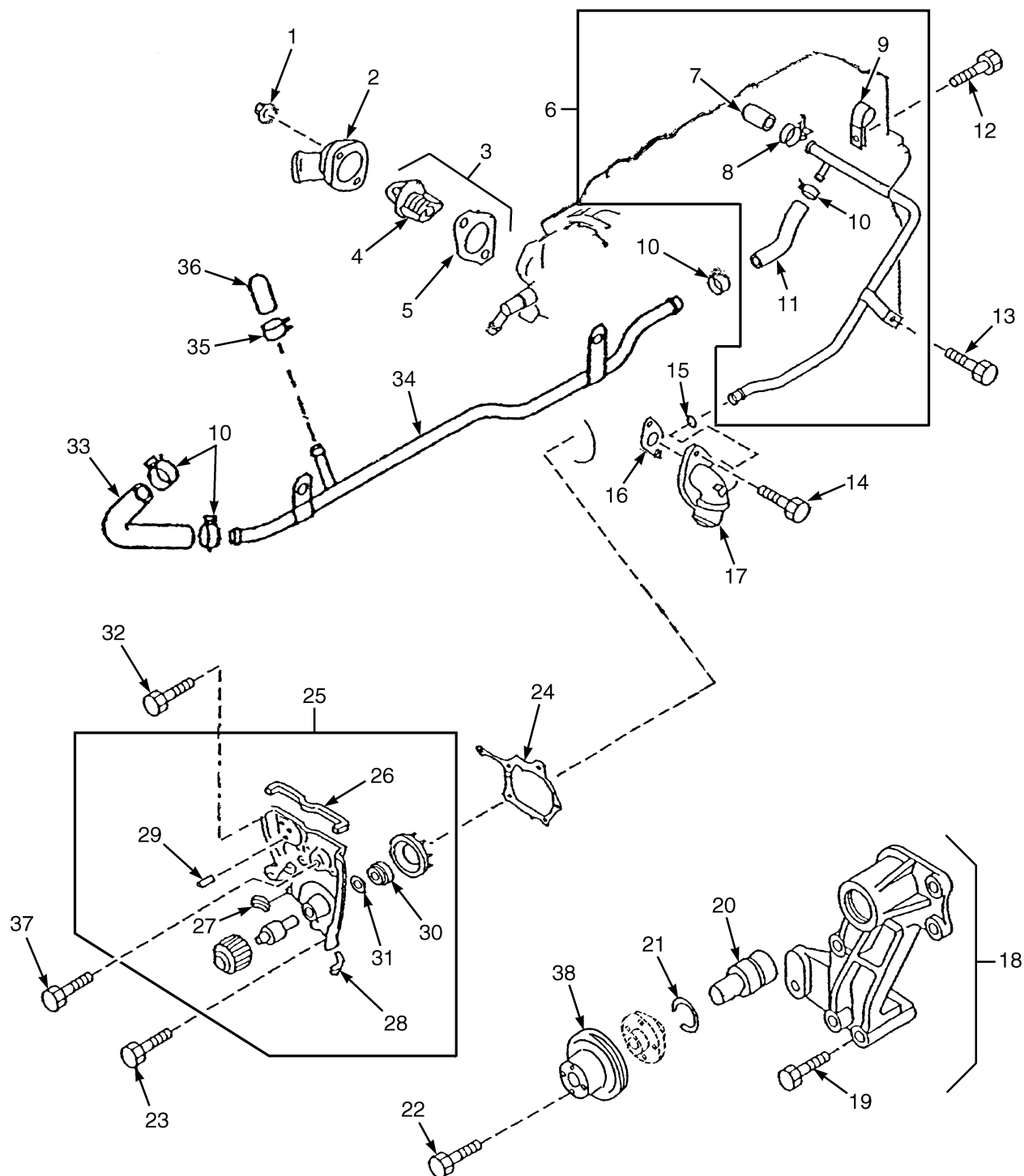


BP090330

ITEM	PART NO.	DESCRIPTION	QTY
1	901290828	Bolt	3
2	901296807	Cover	1
3	901296805	Washer	6
4	901276803	Nut	6
5	901296806	Exhaust Manifold	1
6	901276809	Stud	4
7	912189300	Gasket	2
8	901296804	Gasket	1
9	504256775	Gasket	2

[illegible]

ENGINE COOLING SYSTEM (FIGURE 2-10)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



BP090337



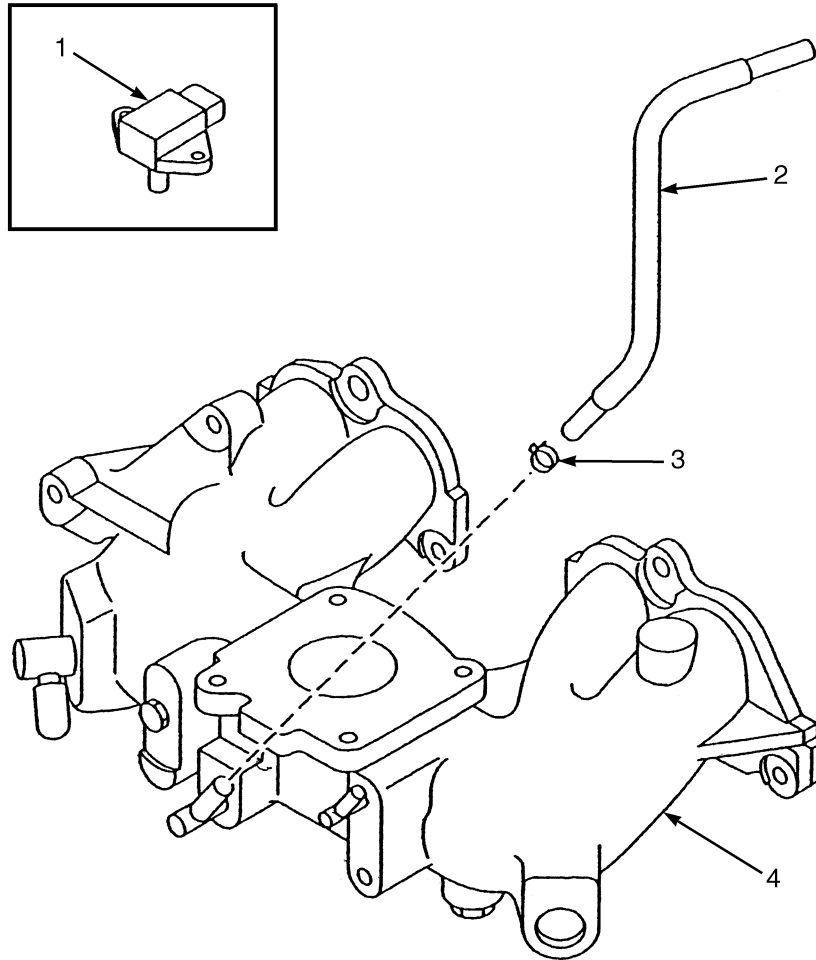
ENGINE COOLING SYSTEM
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block	1
1	900559852	Nut	2
2	901302814	Cover	1
3	580024168	Thermostat	1
4	524253576	Thermostat	1
5	901282846	Gasket	1
6	580046981	Pipe (Water)	1
7	505960545	Cap	1
8	580053508	Clamp	1
9	901579818	Clip	1
10	505959558	Clamp	4
11	901579806	Radiator Hose (Water)	1
12	901290828	Bolt	1
13	901302834	Bolt	1
14	901292819	Screw	2
15	901302821	O-Ring	1
16	901579833	Gasket (Inlet)	1
17	901579811	Adapter (Inlet)	1
18	580053400	Bracket (Fan)	1
19	504258737	Screw	3
20	901579827	Shaft Bearing (Fan)	1
21	504258725	Clip	1
22	900526819	Bolt	4
23	524264688	Bolt	5
24	901579805	Gasket	1
25	524242078	Water Pump	1
26	901579804	Seal	1
27	901579802	Seal	1
28	901579803	Seal	1
29	901302840	Stud	1
30	901096876	Seal	1
31	504258732	Baffle	1
32	524264690	Bolt	1
33	505960550	Radiator Hose	1
34	505960521	Pipe (Water Bypass)	1
35	580024169	Hose Clamp	1
36	505960531	Cap	1
37	901302839	Bolt	1
38	582005785	Fan Pulley	1
	a 580000727	Fan	1

FOOTNOTES:

a Not Illustrated

EMISSION CONTROL SYSTEM (FIGURE 2-11)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

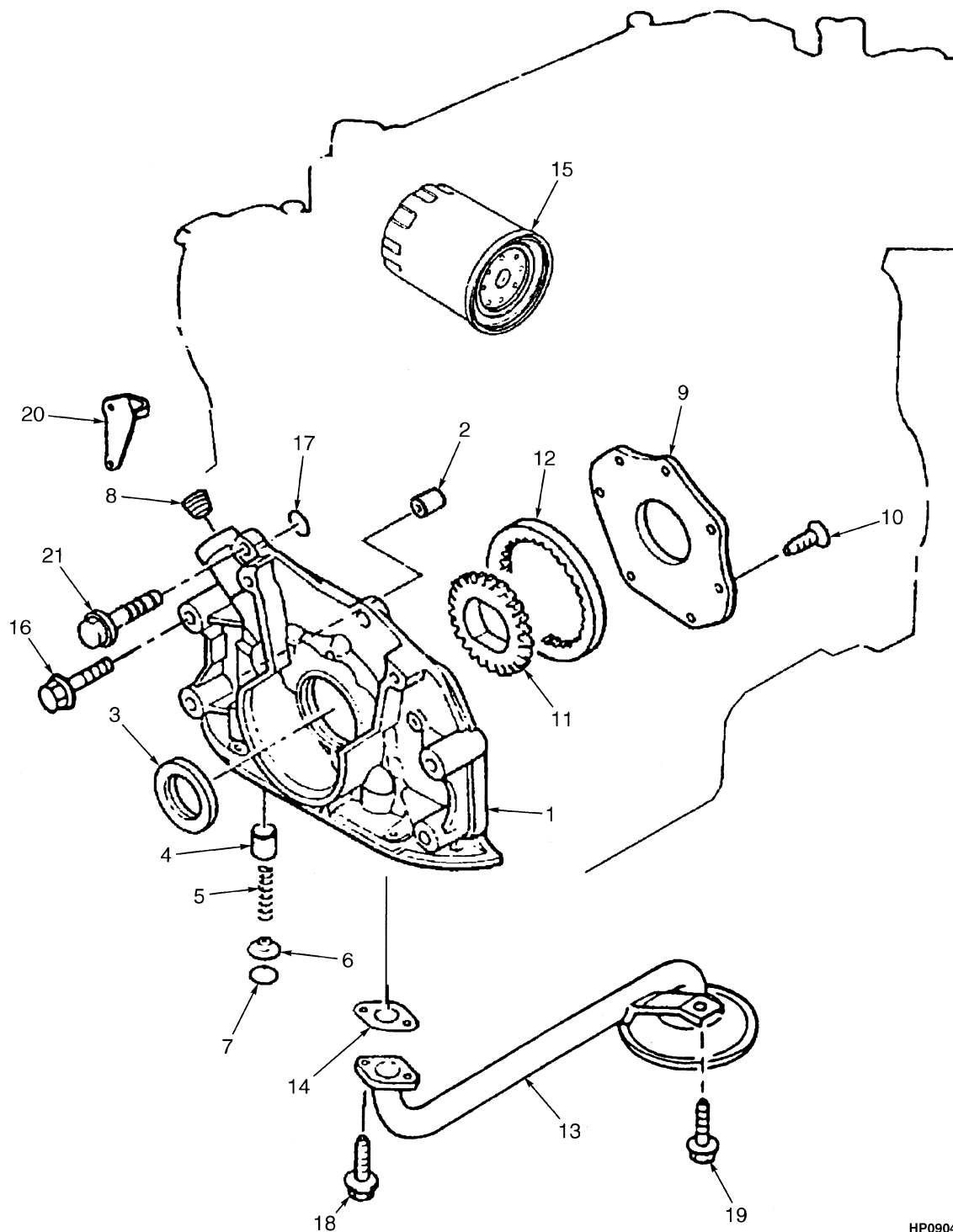


BP090334

ITEM	PART NO.	DESCRIPTION	QTY
1	580045523	Sensor (Boost, M.A.P.) (Boost)	1
2	580078965	Hose (PCV)	1
3	505960520	Clamp	1
4	580078950	Intake Manifold	1
4	580089541	Intake Manifold	1

[illegible]

OIL PUMP AND FILTER (FIGURE 2-12)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



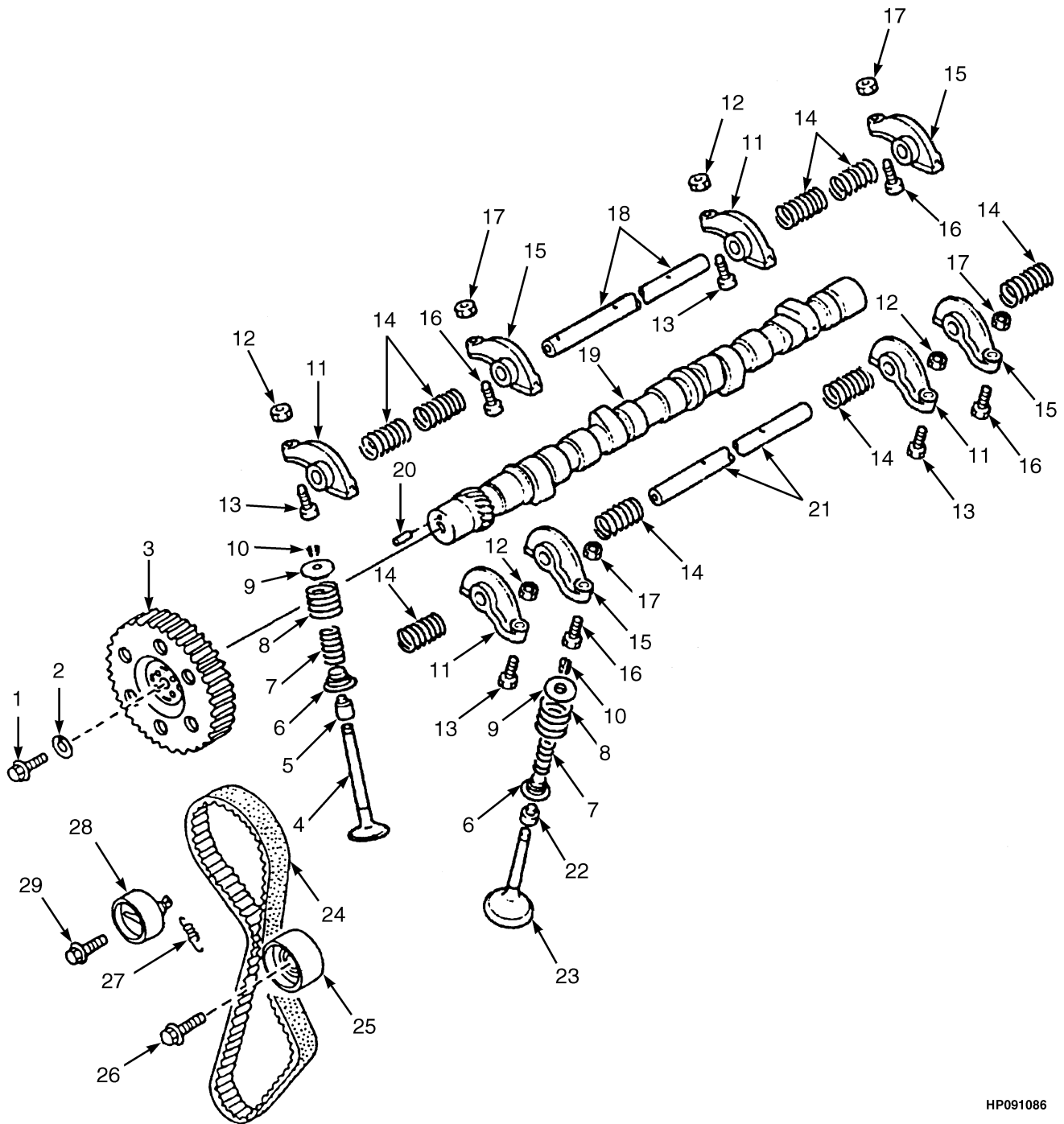
HP090491



OIL PUMP AND FILTER
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078922	Long Block	1
1	580001828	Engine Oil Pump	1
2	901271803	Pin (Timing Indicator)	2
3	901292811	Oil Seal	1
4	580001826	Plunger	1
5	900291803	Spring	1
6	900291804	Spring Seat	1
7	901301821	Snap Ring	1
8	580024166	Plug	1
9	901578809	Cover	1
10	580001829	Screw	7
11	901578811	Gear (Inner)	1
12	901578812	Gear (Outer)	1
13	901301823	Strainer	1
14	901301822	Gasket	1
15	901301815	Oil Filter	1
16	901578816	Bolt	2
17	901301802	O-Ring	1
18	901301818	Screw	2
19	901282833	Screw	1
20	580024167	Pin (Top Indicator)	1
21	901292819	Screw	4
	524264678	Gasket (Liquid)	AR

CAMSHAFT AND VALVES (FIGURE 2-13)
MAZDA 2.0L, GASOLINE AND LPG — 2010 EMISSION COMPLIANT ENGINES



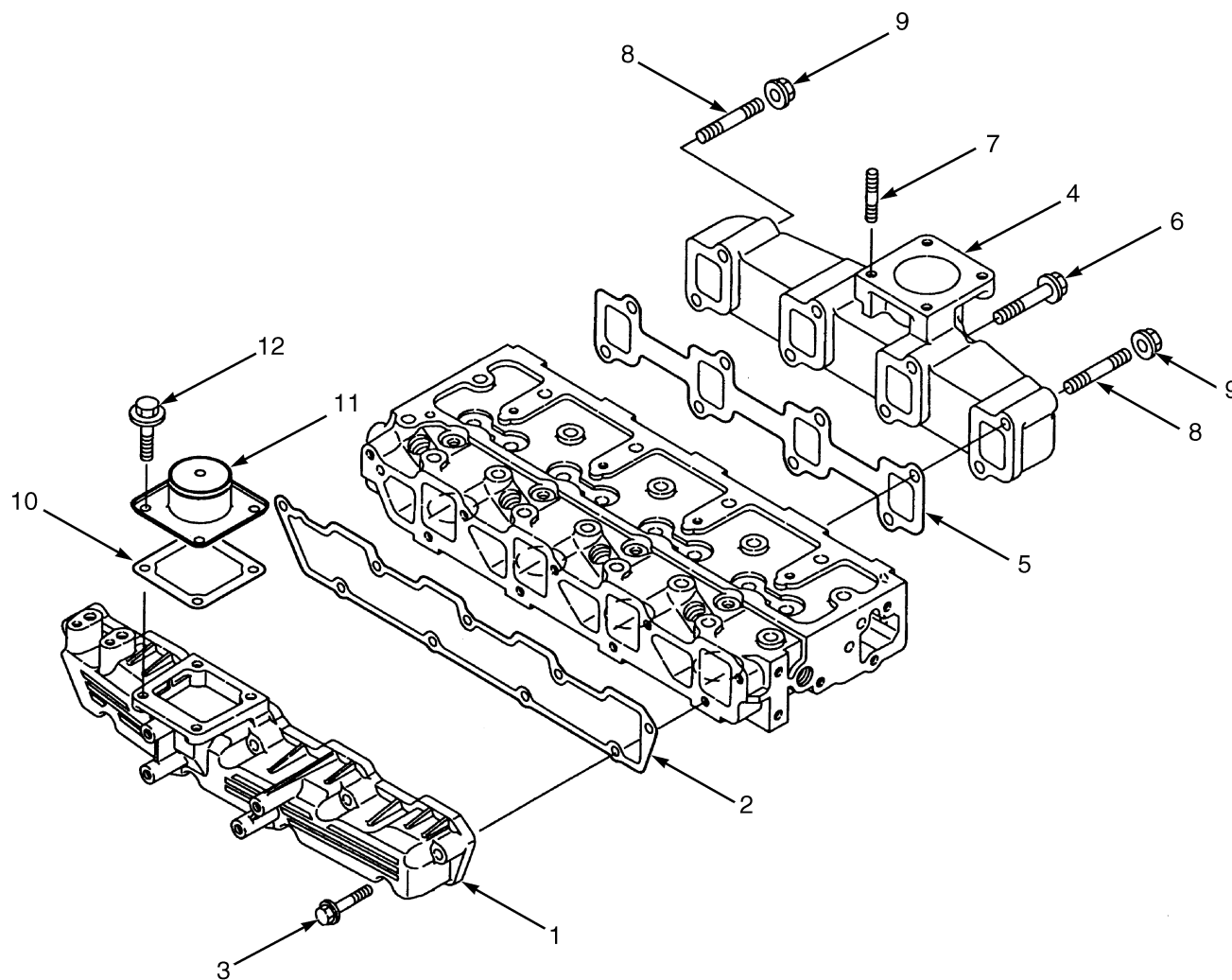
HP091086



CAMSHAFT AND VALVES
MAZDA 2.0L, GASOLINE AND LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	580078924	Long Block (2.0L, Gasoline)	1
	580078922	Long Block (2.0L, LPG)	1
1	901294827	Bolt	1
2	901294828	Washer	1
3	901577818	Pulley (Camshaft)	1
4	901294838	Inlet Valve (Intake)	4
5	901274801	Seal	4
6	901294806	Valve Seat	8
7	901294832	Spring (Intake Valve)	8
8	901294833	Spring (Exhaust Valve)	8
9	901294802	Valve Seat	8
10	900284852	Keeper	16
11	901294834	Rocker Arm	4
12	901294837	Nut	1
13	901294836	Screw	1
14	901294814	Spring	8
15	901294835	Rocker Arm	4
16	901294836	Screw	1
17	901294837	Nut	1
18	901294813	Shaft	1
19	505959568	Camshaft	1
20	901294824	Pin	1
21	901294815	Shaft	1
22	901290837	Seal	4
23	901294839	Exhaust Valve	4
24	580046902	Timing Belt (2.0L)	1
25	901577823	Idler Pulley	1
26	901302839	Bolt	1
27	580046903	Spring (2.0L)	1
28	901577822	Belt Tensioner	1
29	901294825	Bolt	1

INTAKE AND EXHAUST MANIFOLD (FIGURE 2-14)
YANMAR 2.6L DIESEL

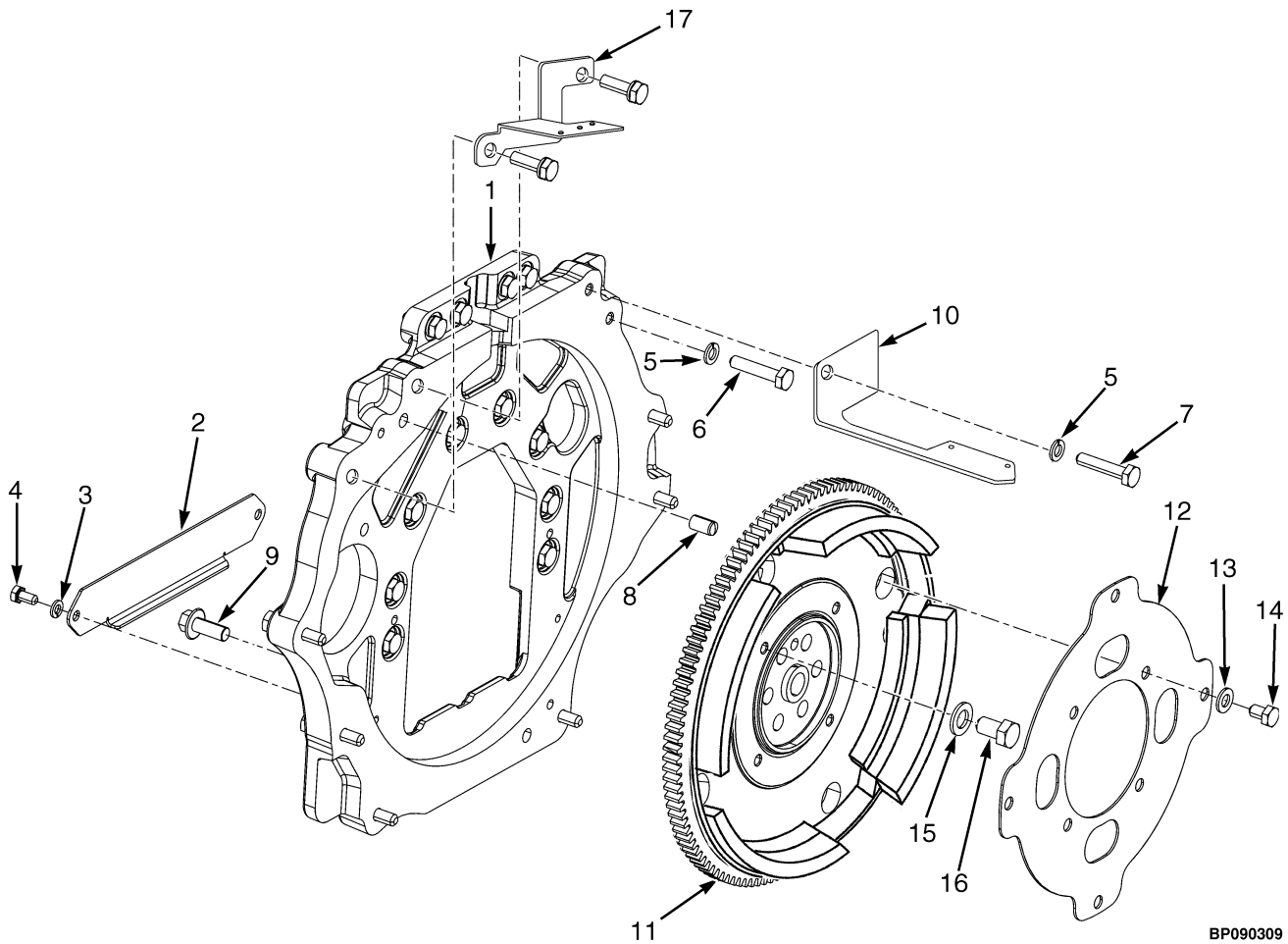


BP090185

**INTAKE AND EXHAUST MANIFOLD
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062649	Intake Manifold	1
2	580062648	Gasket	1
3	580062476	Bolt	9
4	580062650	Exhaust Manifold	1
5	580062651	Gasket	1
6	580062652	Bolt	9
7	580062653	Stud	4
8	580062654	Stud	2
9	524209959	Nut	2
10	580062655	Gasket	1
11	580062656	Adapter	1
12	580062657	Bolt	4
	580062799	Kit-Gasket (2.6L Engine Complete)	1

FLYWHEEL AND HOUSING (FIGURE 2-15)
YANMAR 2.6L DIESEL

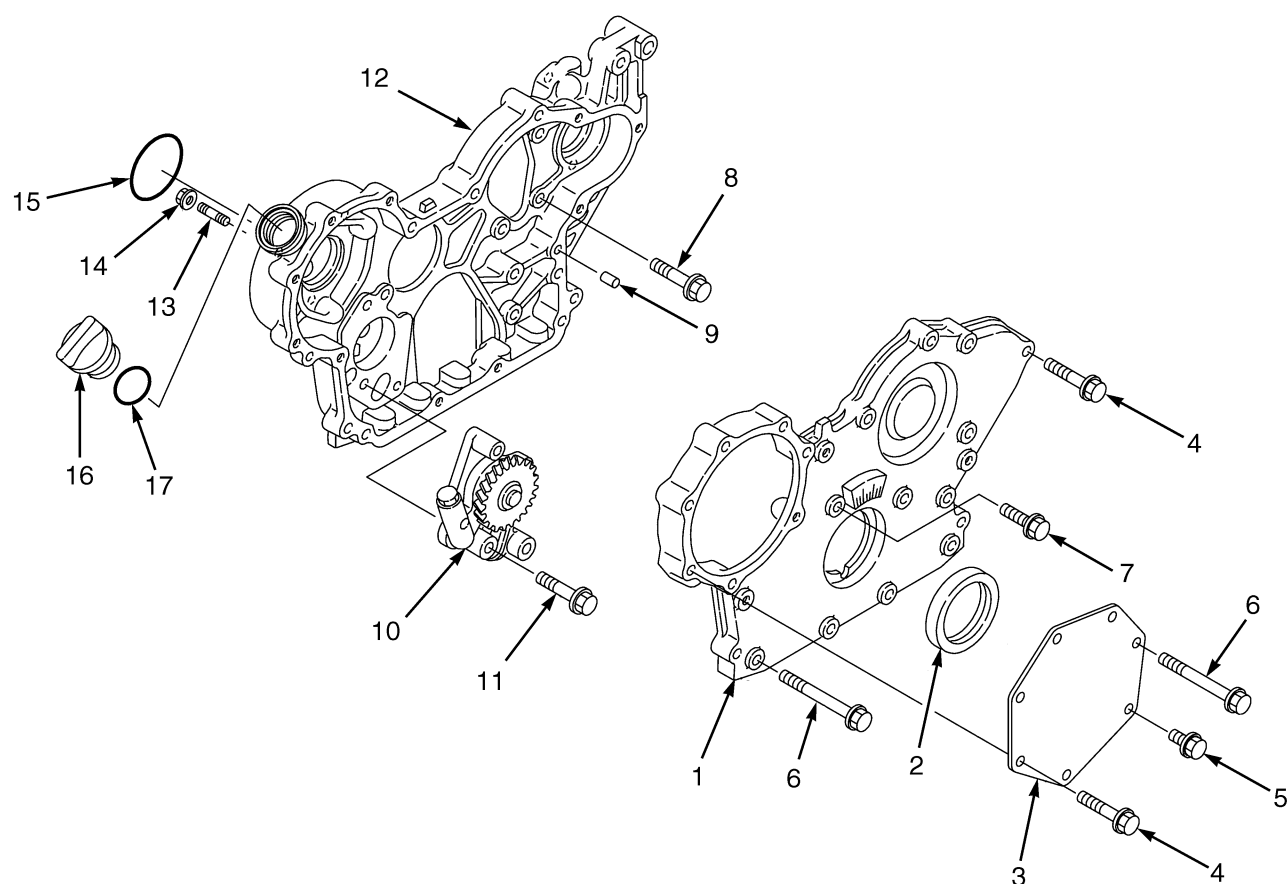


BP090309

**FLYWHEEL AND HOUSING
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	580048125	Housing	1
2	580063935	Cover	1
3	449022016	Lockwasher	2
4	449001415	Capscrew	2
5	504057795		
	449022013	Lockwasher	22
6	449001302	Capscrew	12
7	449001138	Capscrew	10
8	580050042	Dowel	2
9	580056527	Capscrew	2
10	580079397	Bracket	1
11	580096755	Flywheel	1
12	580049662	Flex Plate	1
13	502566904	Washer	4
14	931014902	Capscrew	4
15	940102909	Washer	6
16	580063936	Capscrew	6
17	580069775	Bracket	1
	580070914	Dust Cover (Not Illustrated)	1

GEAR HOUSING (FIGURE 2-16)
YANMAR 2.6L DIESEL



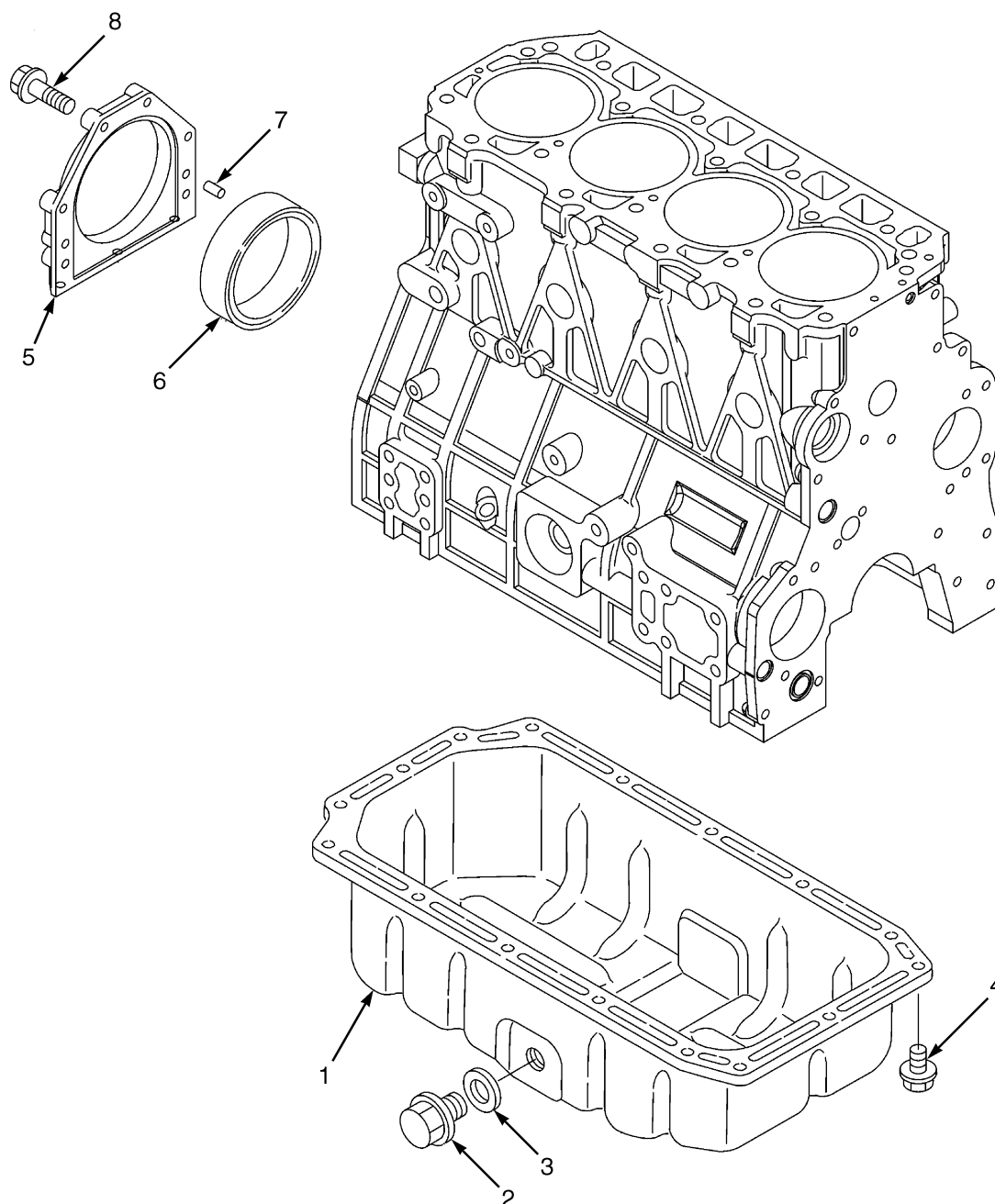
BP090182



GEAR HOUSING **YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	524305985	Gear Cover Assembly	1
2	524303459	Oil Seal	1
3	580062463	Cover	1
4	580062475	Bolt	10
5	580062472	Bolt	1
6	580062477	Bolt	7
7	580062474	Bolt	1
8	580062473	Bolt	3
9	580062460	Pin	4
10	580062468	Engine Oil Pump	1
11	580062476	Bolt	1
12	580062467	Cover	1
13	580062469	Stud	3
14	524209959	Nut	3
15	580062464	O-Ring	1
16	580062465	Cap (Oil Fill)	1
17	580062466	O-Ring	1
	580062478	Gasket (Liquid)	AR
	524255824	Gasket (Liquid)	1
	580062799	Kit-Gasket (2.6L Engine Complete)	1

OIL PAN (FIGURE 2-17)
YANMAR 2.6L DIESEL



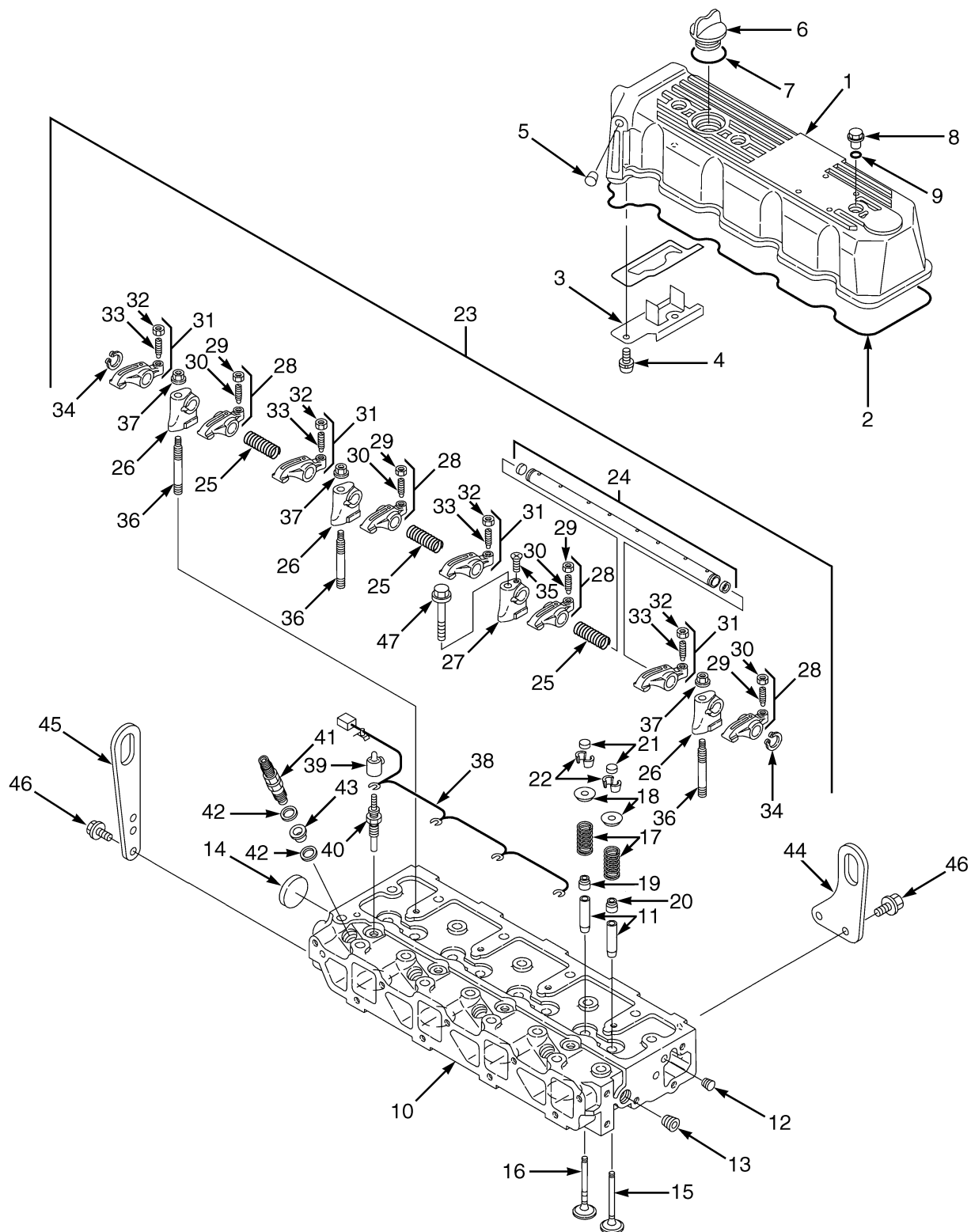
BP090183



OIL PAN **YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062479	Oil Pan	1
2	580062480	Drain Plug	1
3	580062481	Oil Seal	1
4	580062450	Bolt	16
5	580062483	Case	1
6	580062484		
	580096895	Seal	1
7	580062460	Pin	2
8	580062485	Bolt	6
	580062478	Gasket (Liquid) (Not Illustrated)	AR
	580062799	Kit-Gasket (2.6L Engine Complete)	1

CYLINDER HEAD (FIGURE 2-18)
YANMAR 2.6L DIESEL



BP090184

CYLINDER HEAD **YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062638	Engine Cover	1
2	580062639	Gasket	1
3	580062640	Plate	1
4	580062641	Screw	2
5	580062642	Plug	1
6	580062465	Cap (Oil Fill)	1
7	580062466	O-Ring	1
8	580062637	Plug	3
9	580062643	O-Ring	3
10	580062488	Cylinder Head Assembly	1
10	580062498	Cylinder Head	1
11	580062499	Guide	8
12	580062500	Plug	1
13	580062443	Plug	1
14	580062501	Plug	1
15	580062489	Inlet Valve (Intake)	4
16	580062490	Exhaust Valve	4
17	580062491	Spring	8
18	580062492	Retainer	8
19	580062493	Seal (Exhaust Valve)	4
20	580062494	Seal (Intake Valve)	4
21	580062495	Cap	8
22	580062502	Retainer	8
23	580062503	Support Assembly (Rocker Arm)	1
24	580062504	Shaft	1
25	580062505	Spring	3
26	580062506	Support	3
27	580062507	Support	1
28	580062508	Kit-Rocker Arm	4
29	580062509	Screw	1
30	580062510	Nut	1
31	580062511	Kit-Rocker Arm	4
32	580062509	Screw	1
33	580062510	Nut	1
34	580062512	Retaining Ring	2
35	580062513	Screw	1
36	580062514	Stud	3
37	580062515	Nut	3
38	580062644	Connector (Glow Plug)	1
39	580062647	Cover	4
40	580062645	Glow Plug	4
41	580062496	Protector	4
42	580062497	Gasket	8
43	580062723	Injector (☞P23203 [Page 5-26]).....	4
44	580062487	Lifting Eye (Rear)	1
45	580062486	Lifting Eye (Front)	1
46	580062472	Bolt	4
47	580062646	Bolt	1



P23193 05-11

**CYLINDER HEAD
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580062799	Kit-Gasket (2.6L Engine Complete)	1

[illegible]

CAMSHAFT AND DRIVE GEAR (FIGURE 2-19)

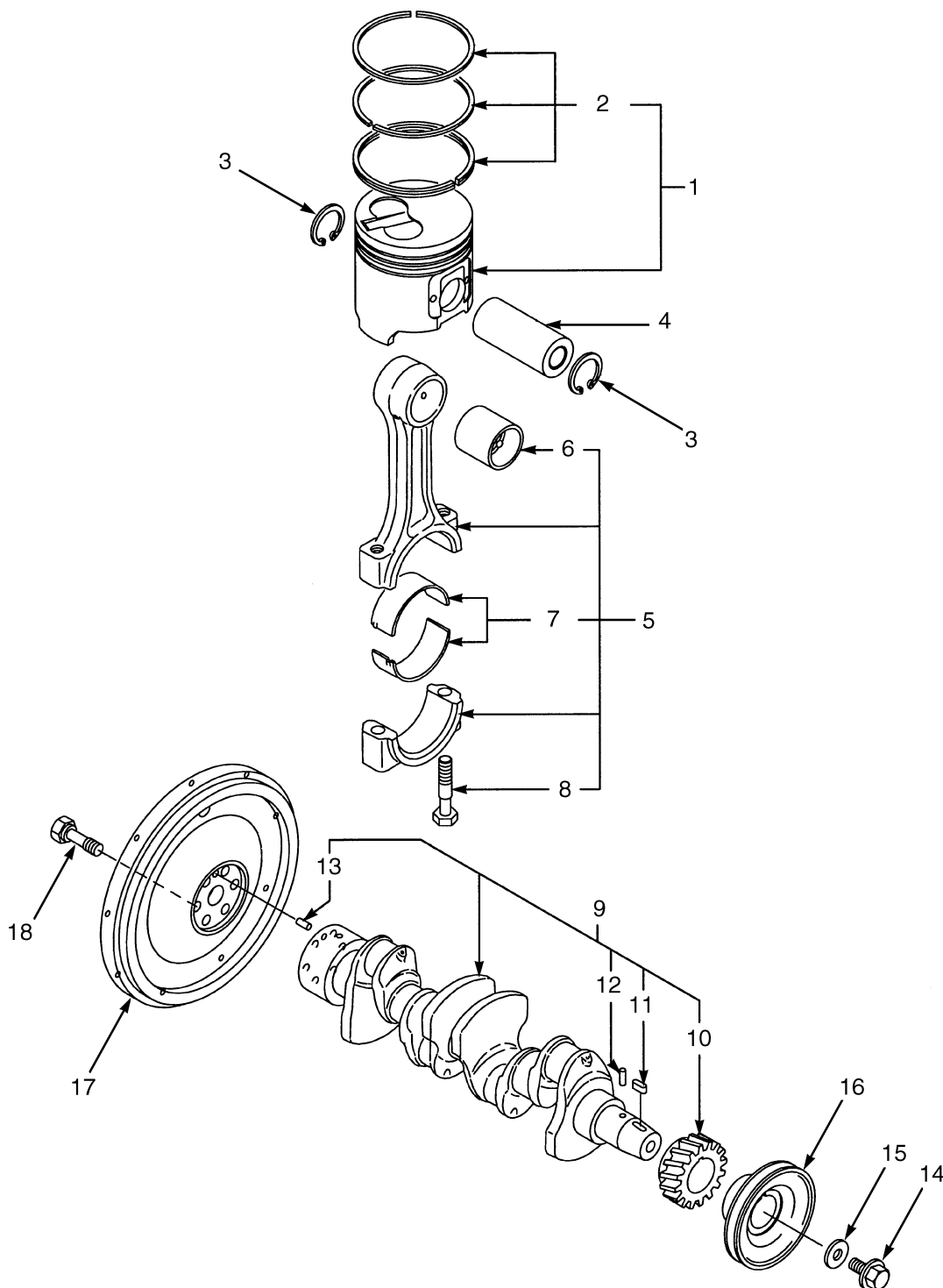




CAMSHAFT AND DRIVE GEAR **YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062658	Tappet	8
2	580062659	Push Rod	8
3	580062660	Camshaft	1
4	580062661	Retainer	1
5	580062662	Gear	1
6	580062663	Key	1
7	580062472	Bolt	2
8	580062668	Bolt	2
9	580062665	Shaft (Idler)	1
10	580062666		
	582008706	Idler Gear	1
11	580062667	Bushing	1
12	580062671	Locknut	1
13	580062670	Spring Washer	1
14	580062669	Gear	1
15	580062808	Injection Pump (☞ P23203 [Page 5-26]).....	1

CRANKSHAFT AND PISTONS (FIGURE 2-20) **YANMAR 2.6L DIESEL**



BP090187

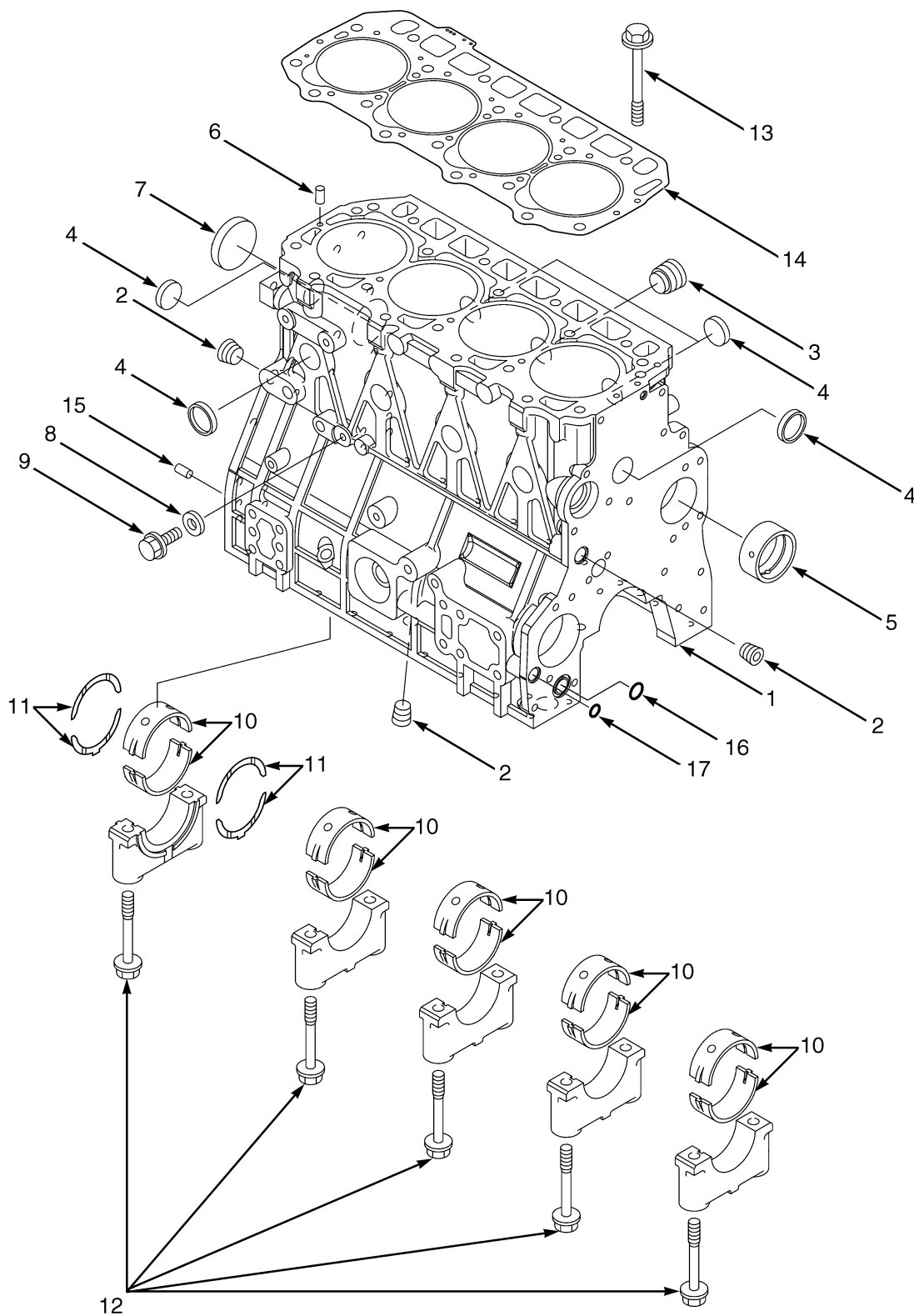


CRANKSHAFT AND PISTONS

YANMAR 2.6L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062680	Piston (With Standard Rings)	4
1	580062688	Kit-Piston (O/S 0.25 with Rings)	4
2	580062681	Kit-Piston Ring (Standard)	1
2	580062689	Kit-Piston Ring (O/S 0.25)	1
3	580062683	Snap Ring	8
4	580062682	Pin	4
5	580062684	Piston Rod	4
6	580062685	Bushing	1
7	524279523	Piston Rod Bearing (Standard)	1
7	524279524	Bearing (U/S 0.25)	4
8	580062686	Bolt	2
9	580062672	Crankshaft	1
10	580062673	Gear	1
11	580062663	Key	1
12	580062674	Pin	1
13	580062675	Pin	1
14	580062678	Bolt	1
15	580062677	Washer	1
16	580062676	Pulley	1
17	580067608	Flywheel	1
17	580096755	Flywheel	1
18	580062679	Bolt	6

CYLINDER BLOCK (FIGURE 2-21) **YANMAR 2.6L DIESEL**



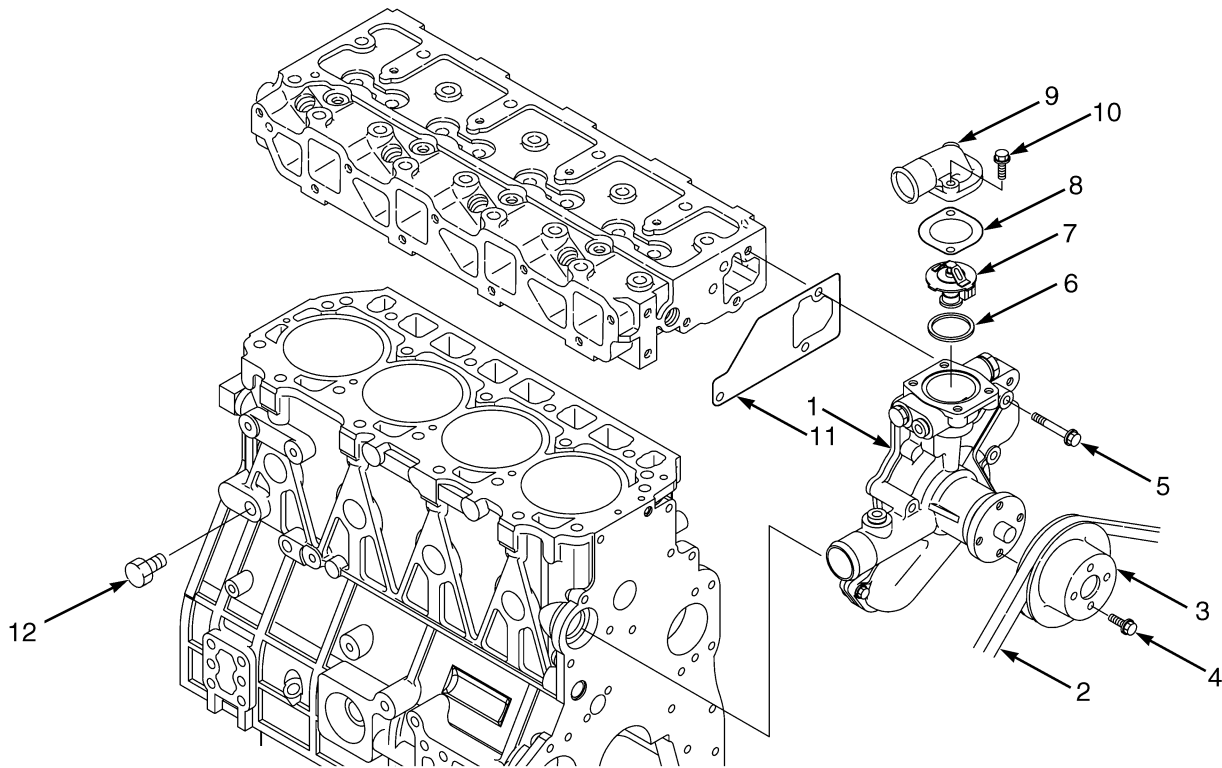
BP090181



CYLINDER BLOCK YANMAR 2.6L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062442	Cylinder Block	1
2	580062443	Plug	3
3	580062444	Plug	1
4	580062453	Plug	8
5	580062446	Bushing	1
6	580062448	Cotter Pin	2
7	580062451	Plug	1
8	580062447	Washer	1
9	580062450	Bolt	1
10	524279521	Kit-Crankshaft Bearing (Standard)	5
10	524279522	Kit-Bearing (U/S 0.25)	5
11	524279525	Kit-Thrust Bearing (Standard)	2
11	524279526	Kit-Thrust Bearing (U/S 0.25)	2
12	580062445	Bolt	10
13	580062456	Bolt	18
14	580062457	Cylinder Head Gasket	1
14	582000135	Cylinder Head Gasket (1.0MM Over Size) (2.6L)	1
14	582000136	Cylinder Head Gasket (0.8MM Option) (2.6L)	1
15	580062460	Pin	2
16	580062470	O-Ring	1
17	580062471	O-Ring	1
	580062799	Kit-Gasket (2.6L Engine Complete)	1

WATER PUMP (FIGURE 2-22) **YANMAR 2.6L DIESEL**

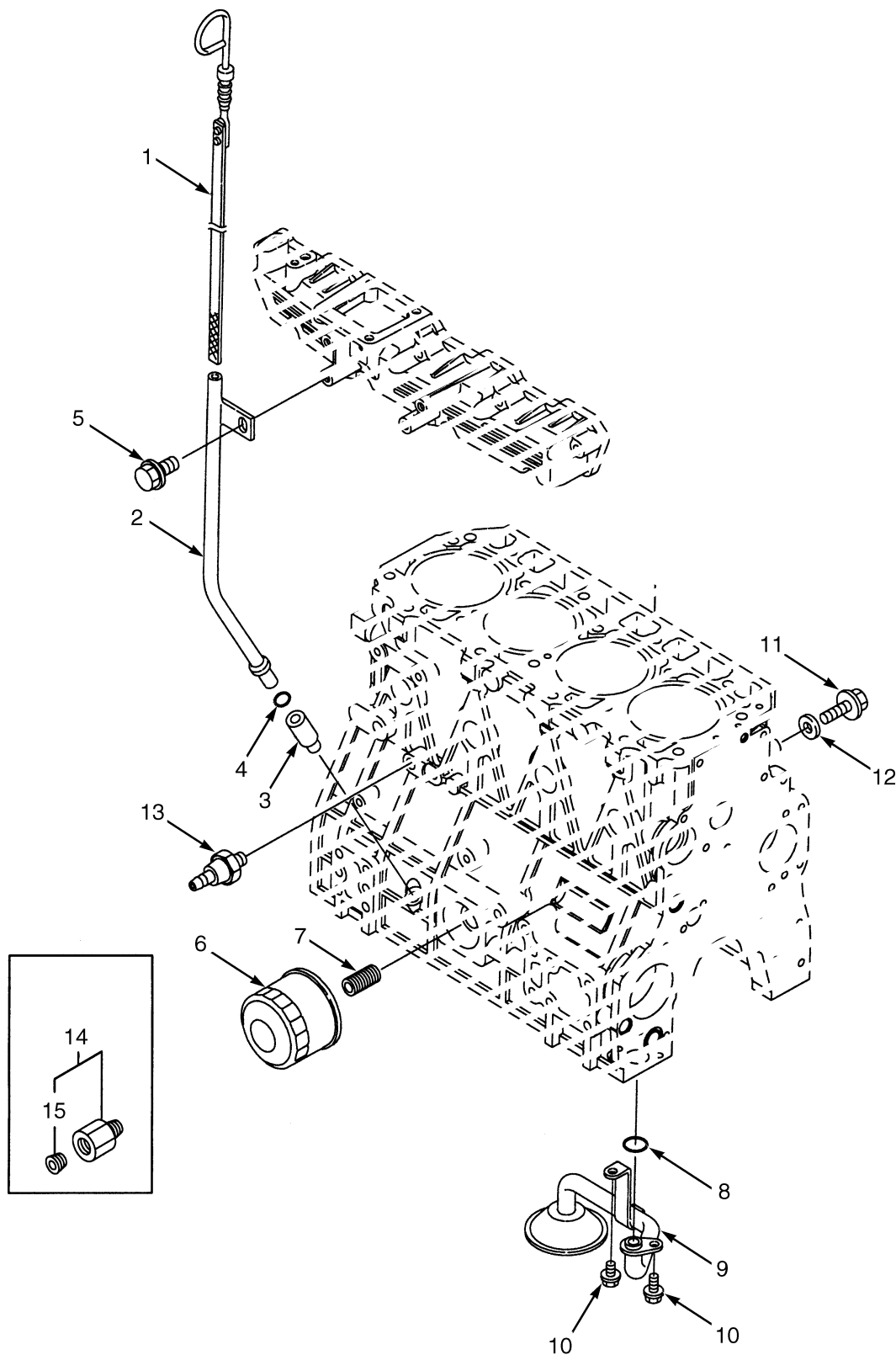


BP090189

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062709	Water Pump	1
2	580062703	V-Belt	1
3	580062702	Water Pump Pulley	1
4	580062450	Bolt	4
5	580062668	Bolt	3
6	524228291	Gasket	1
7	580062705	Thermostat	1
8	524228290	Gasket	1
9	580062704	Cover	1
10	580062706	Bolt	1
11	580062708	Gasket	1
12	580062707	Drain Plug	2
	580062799	Kit-Gasket (2.6L Engine Complete)	1

[illegible]

LUBRICATION SYSTEM (FIGURE 2-23)
YANMAR 2.6L DIESEL



BP090188



LUBRICATION SYSTEM

YANMAR 2.6L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062692	Dipstick	1
2	580062694	Dipstick Tube	1
3	580062693	Guide	1
4	580062695	O-Ring	1
5	580062472	Bolt	1
6	524228505	Oil Filter	1
7	580062696	Stud	1
8	580062470	O-Ring	1
9	580062697	Pipe	1
10	580062698	Bolt	2
11	580062450	Bolt	1
12	580062447	Washer	1
13	580062699	Pressure Switch (Oil Pressure)	1
14	580062700	Plug (Oil Pressure Sensor)	1
15	580062701	Plug	1
	580062799	Kit-Gasket (2.6L Engine Complete)	1

NOTES

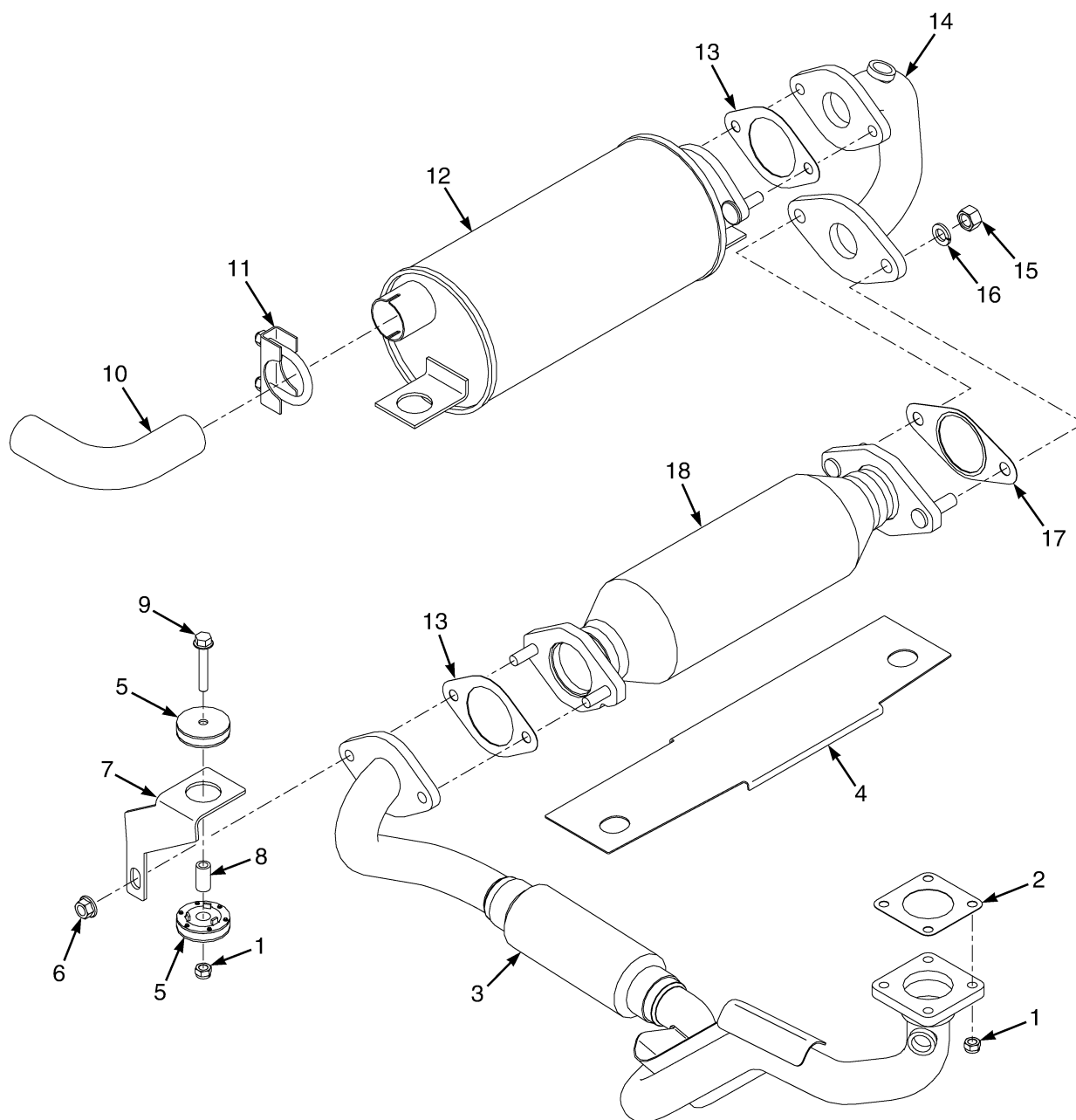
[illegible]



SECTION 3 EXHAUST SYSTEM

DESCRIPTION	PAGE
EXHAUST SYSTEM	
YANMAR 2.6L DIESEL	3-6
EXHAUST SYSTEM WITH CATALYTIC CONVERTER	
MAZDA 2.0L, LPG	3-2
MAZDA 2.0L, LPG - LATIN AMERICAN SERIES	3-4

EXHAUST SYSTEM WITH CATALYTIC CONVERTER (FIGURE 3-1)
MAZDA 2.0L, LPG



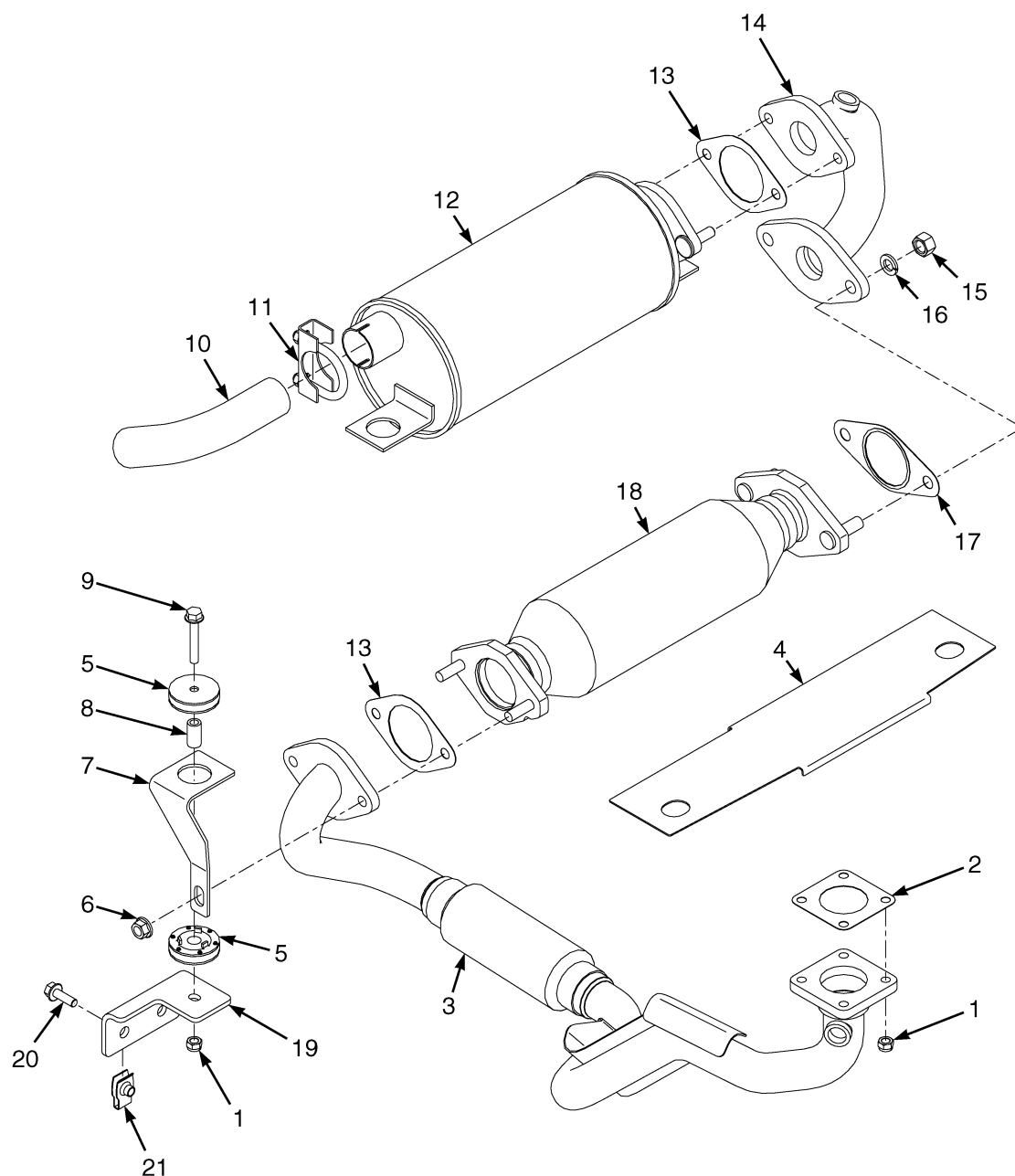
BP110059



EXHAUST SYSTEM WITH CATALYTIC CONVERTER
MAZDA 2.0L, LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	580056381	Locknut	6
2	912189300	Gasket	1
3	580093953	Exhaust Pipe	1
4	580057842	Exhaust Shield	1
5	580097537	Isolator	4
6	580027572	Nut	4
7	580039142	Bracket	1
8	582000157	Spacer	2
9	580030968	Capscrew	2
10	580058890	Exhaust Pipe	1
11	057047400	Clamp	1
12	580073415	Muffler (Welded) (Optional)	1
12	580073416	Muffler (Crimped)	1
13	580087650	Gasket	2
14	580073413	Exhaust Pipe	1
15	580020060	Nut	2
16	449022017	Lockwasher	2
17	580087651	Gasket	1
18	582001684	Catalytic Converter	1

EXHAUST SYSTEM WITH CATALYTIC CONVERTER (FIGURE 3-2)
MAZDA 2.0L, LPG — LATIN AMERICAN SERIES



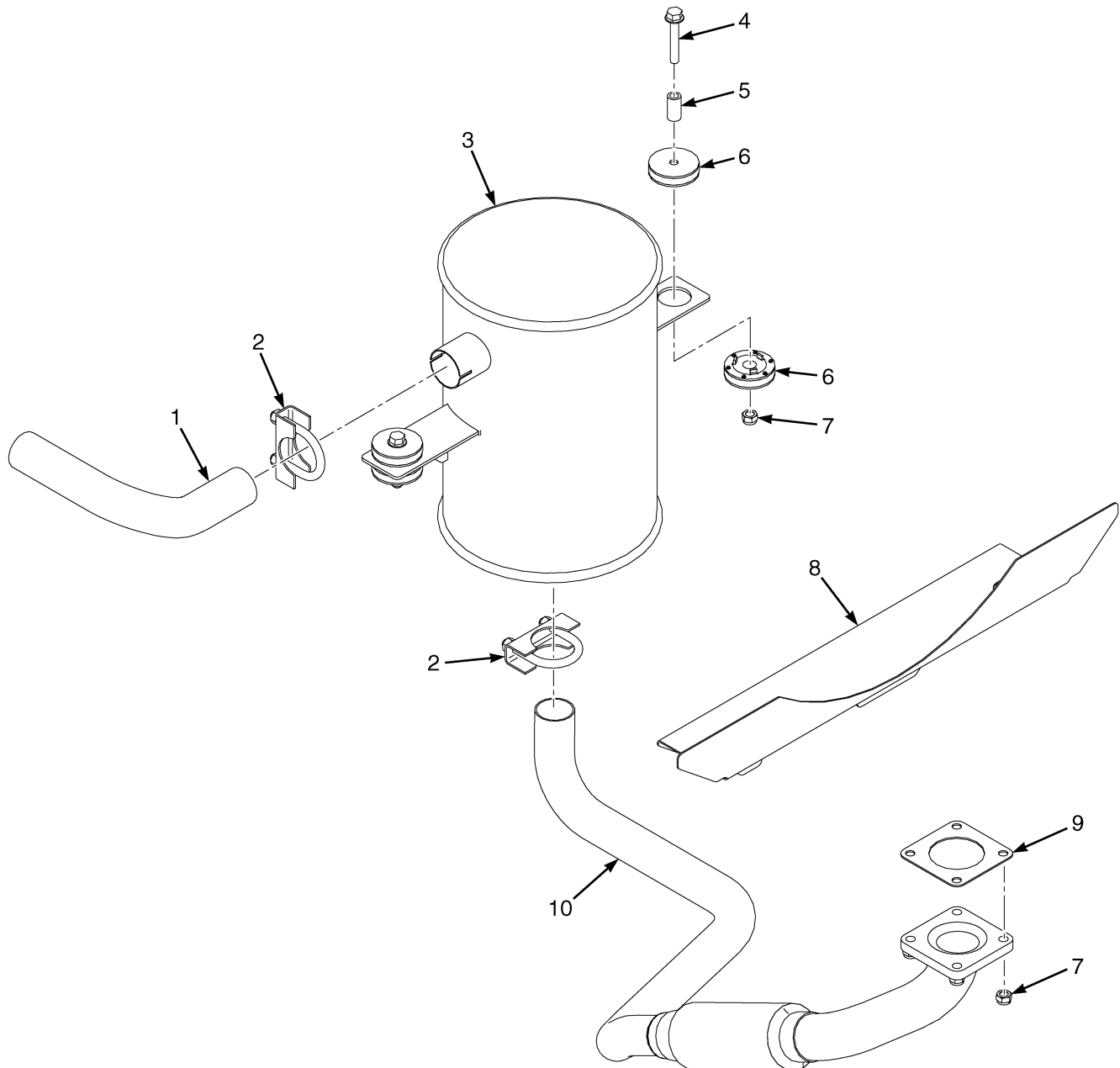
BP110065



EXHAUST SYSTEM WITH CATALYTIC CONVERTER
MAZDA 2.0L, LPG – LATIN AMERICAN SERIES

ITEM	PART NO.	DESCRIPTION	QTY
1	580056381	Locknut	6
2	912189300	Gasket	1
3	580093953	Exhaust Pipe	1
4	580057842	Exhaust Shield	1
5	580097537	Isolator	4
6	580027572	Nut	4
7	582006504	Bracket	1
8	582000157	Spacer	2
9	580030968	Capscrew	2
10	580058890	Exhaust Pipe	1
11	057047400	Clamp	1
12	580073415	Muffler (Welded) (Optional)	1
12	580073416	Muffler (Crimped)	1
13	580087650	Gasket	2
14	580073413	Exhaust Pipe	1
15	580020060	Nut	2
16	449022017	Lockwasher	2
17	580087651	Gasket	1
18	582001684	Catalytic Converter	1
19	582006503	Bracket (LH)	1
19	582006502	Bracket (RH)	1
20	580030966	Capscrew	4
21	580012987	Nut	4

EXHAUST SYSTEM (FIGURE 3-3)
YANMAR 2.6L DIESEL



BP110071

**EXHAUST SYSTEM
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	582015796	Exhaust Pipe	1
2	057047400	Clamp	2
3	582013998	Muffler	1
4	580030968	Capscrew	2
5	582000157	Spacer	2
6	580097537	Isolator	4
7	580056381	Locknut	6
8	580051807	Exhaust Shield	1
9	580039568	Gasket	1
10	582010309	Exhaust Pipe	1

NOTES

[illegible]

4

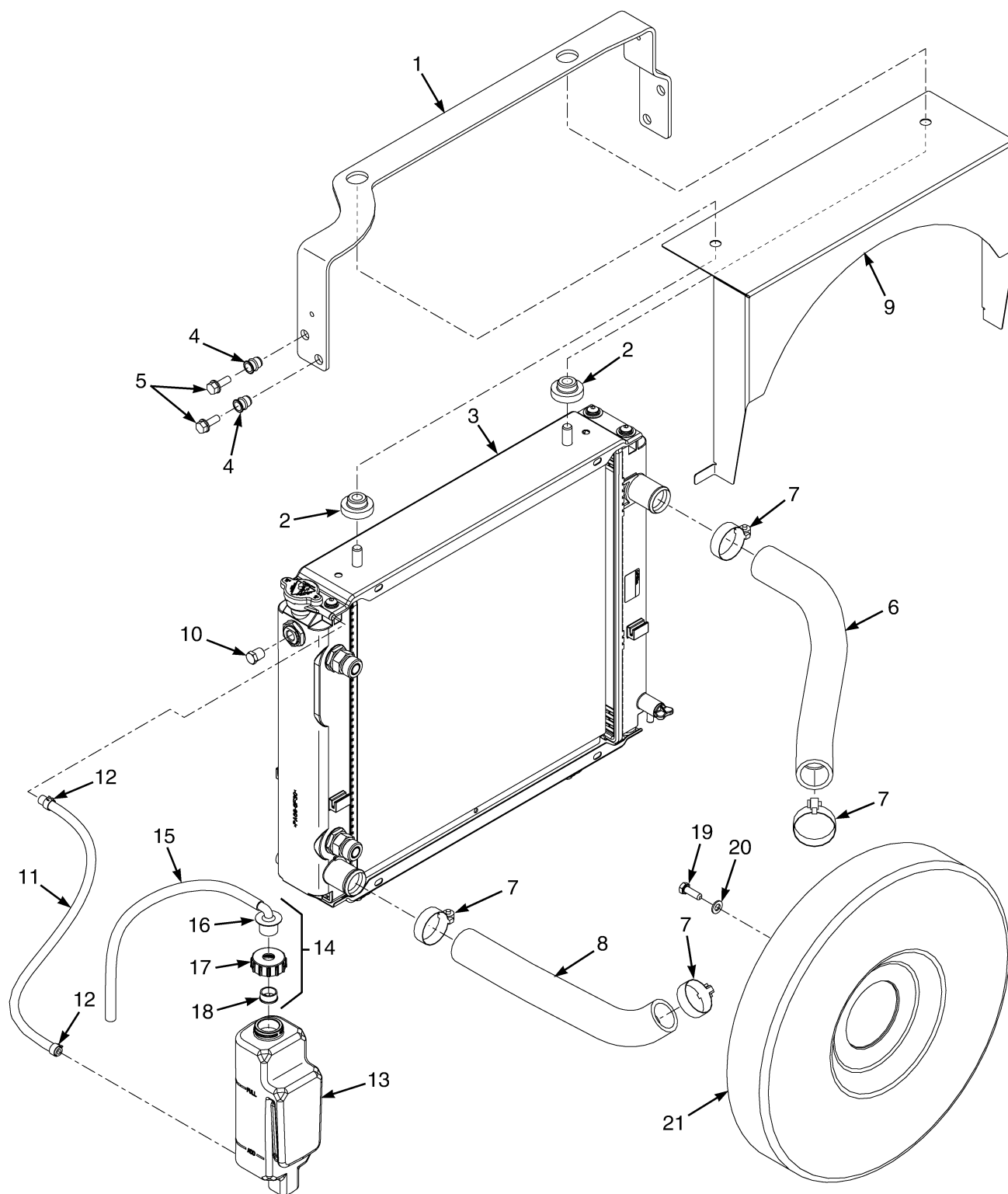
COOLING SYSTEM



SECTION 4 COOLING SYSTEM

DESCRIPTION	PAGE
COOLING SYSTEM	
MAZDA 2.0L	4-2
YANMAR 2.6L - DIESEL	4-4

COOLING SYSTEM (FIGURE 4-1)
MAZDA 2.0L



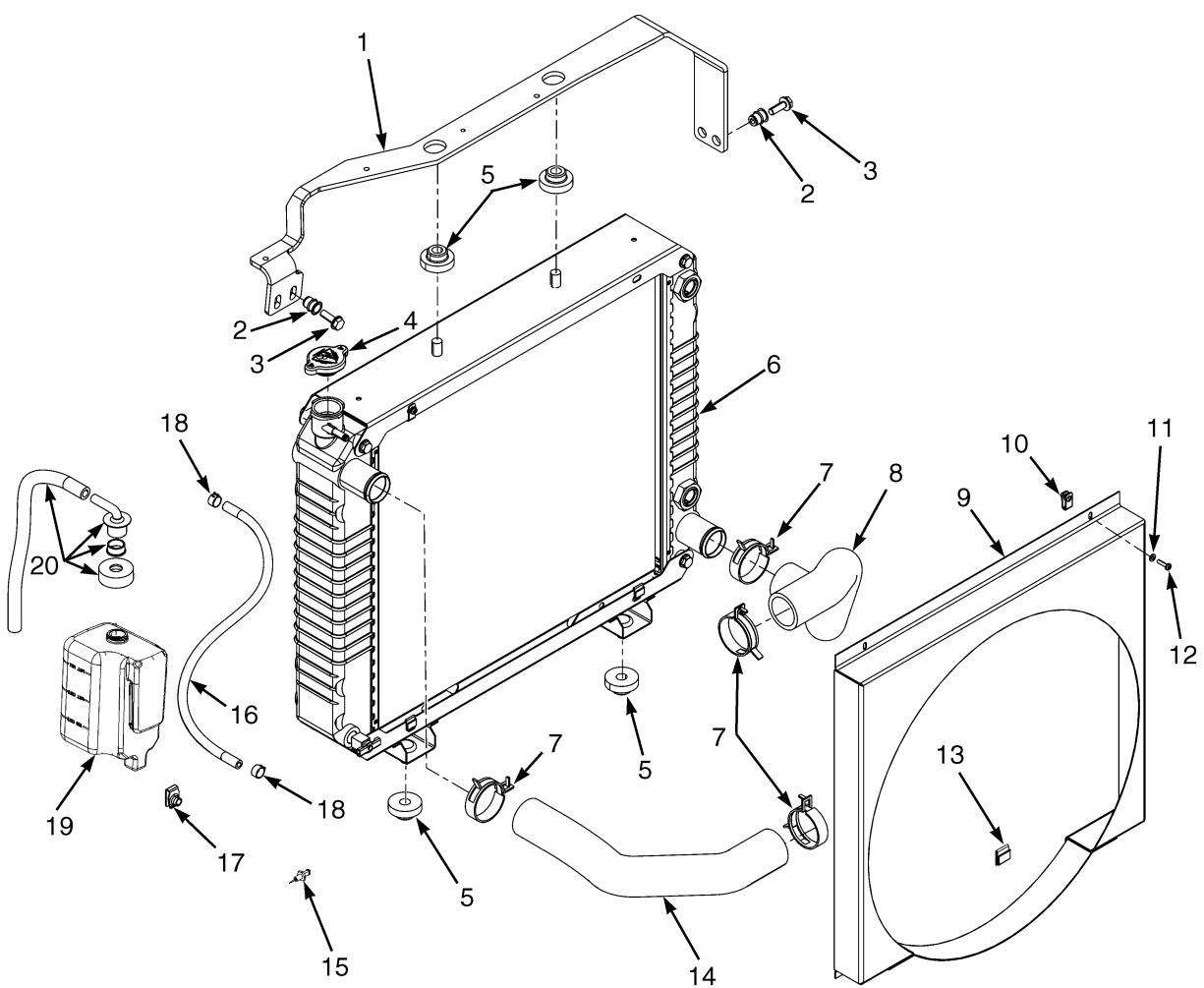
BP060073



COOLING SYSTEM MAZDA 2.0L

ITEM	PART NO.	DESCRIPTION	QTY
1	582010093	Bracket	1
2	580037325	Isolator	4
3	580039800	Radiator	1
3	505972563	Radiator Cap	1
3	580036680	Drain Plug	1
4	580044860	Insert	4
5	580056815	Capscrew	4
6	582005862	Hose	1
7	502056903	Clamp	4
8	580038861	Radiator Hose	1
9	582003495	Shroud	1
10	501884906	Fitting	1
10	505970592	Sealant	1
11	580041132	Hose	1
12	505966595	Clamp	2
13	580072689	Reservoir	1
14	580002885	Outlet Assembly	1
15	580083733	Hose	1
16	900001230	Outlet (Reservoir)	1
17	900001231	Cap	1
18	900003260	Bushing	1
19	449001241	Capscrew	4
20	502566901	Washer	4
21	580086666	Fan	1

COOLING SYSTEM (FIGURE 4-2)
YANMAR 2.6L — DIESEL



BP090357



COOLING SYSTEM YANMAR 2.6L – DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	582006917	Bracket (Top)	1
2	580044860	Insert	4
3	580030966	Capscrew	4
4	505972563	Radiator Cap	1
5	580037325	Isolator	4
6	580049832	Radiator (Square Wave)	1
6	580052550	Drain Valve (w/Thread Wrap) (Not Illustrated)	1
7	502056903	Clamp	4
8	580049401	Radiator Hose (Lower)	1
9	582015425	Shroud Assembly	1
10	580040177	Nut	2
11	940004903	Washer	2
12	449007005	Screw	2
13	505972572	Clip	2
14	580049400	Radiator Hose (Upper)	1
15	580038312	Sensor (Low Coolant Level) (Optional)	1
15	501884906	Fitting (Optional)	1
15	505970592	Sealant	AR
16	580052278	Hose	1
17	580026621	Nut	1
18	505966595	Clamp	2
19	580072689	Reservoir	1
20	580002885	Outlet Assembly	1
20	900001230	Outlet (Reservoir)	1
20	900001231	Cap	1
20	900003260	Bushing	1
20	580083733	Hose	1

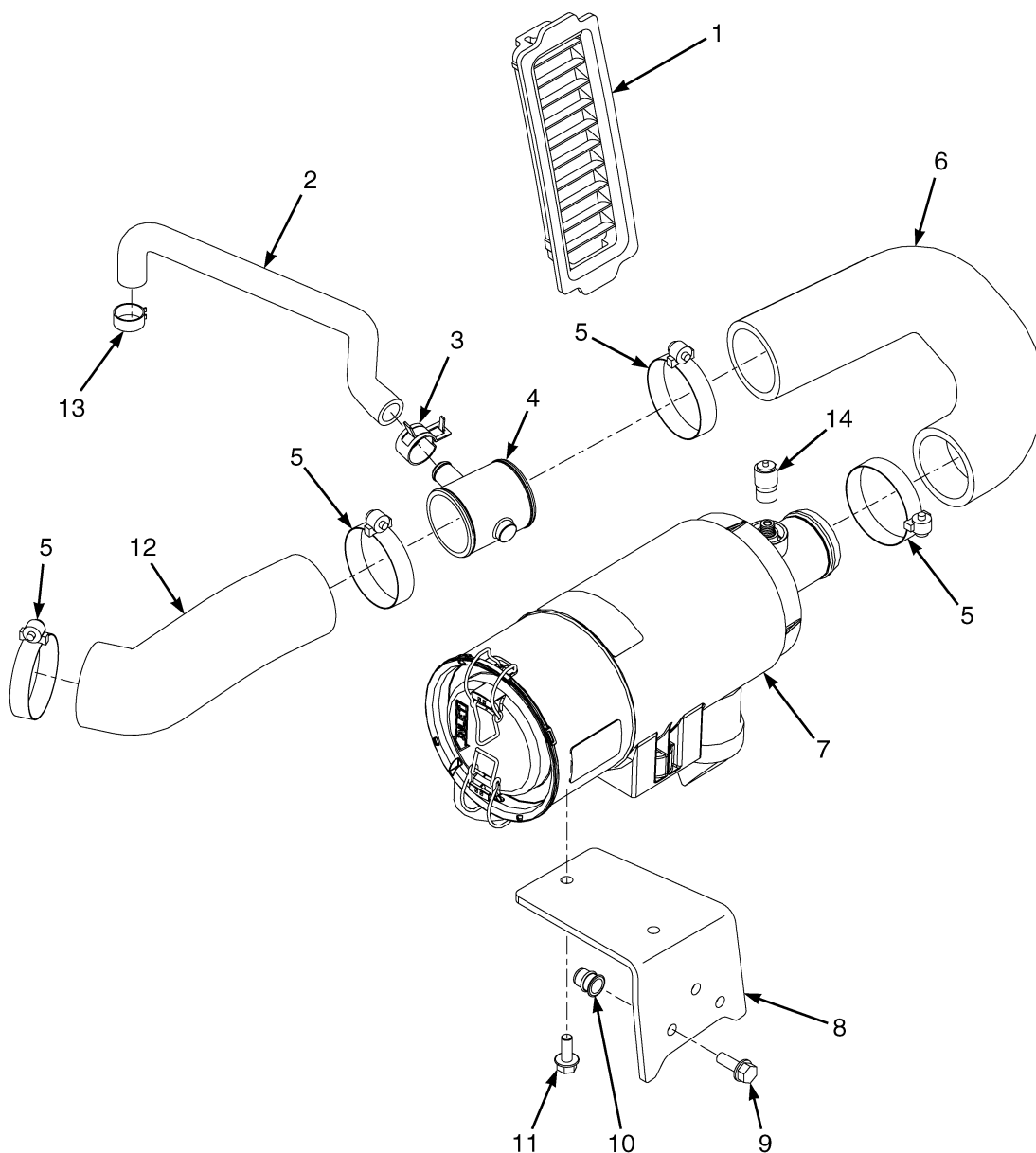
NOTES

[illegible]

**SECTION 5
FUEL SYSTEM**

DESCRIPTION	PAGE
AIR FILTER ASSEMBLY	5-4
AIR INTAKE SYSTEM	
MAZDA 2.0L	5-2
YANMAR 2.6L DIESEL	5-22
ELECTRONIC PRESSURE REGULATOR ASSEMBLY	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-14
ELECTRONIC PRESSURE REGULATOR KIT	
(MAZDA 2.0L LPG)	5-16
FUEL FILTER	
YANMAR 2.6L DIESEL	5-24
FUEL INJECTION	
YANMAR 2.6L DIESEL	5-26
FUEL SYSTEM	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-8
YANMAR 2.6L DIESEL	5-20
FUEL SYSTEM HOSES AND ATTACHING PARTS	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	5-10
FUEL TANK COVERS	
LATIN AMERICAN SERIES	5-5
LPG FUEL TANK AND MOUNTING	5-6
MIXER AND THROTTLE BODY ASSEMBLY	
MAZDA 2.0L - 2010 EMISSION COMPLIANT ENGINES	5-12
THROTTLE CABLE LINKAGE	
YANMAR 2.6L DIESEL	5-28
THROTTLE PEDAL AND ATTACHING PARTS	5-18

AIR INTAKE SYSTEM (FIGURE 5-1)
MAZDA 2.0L



BP130318



AIR INTAKE SYSTEM MAZDA 2.0L

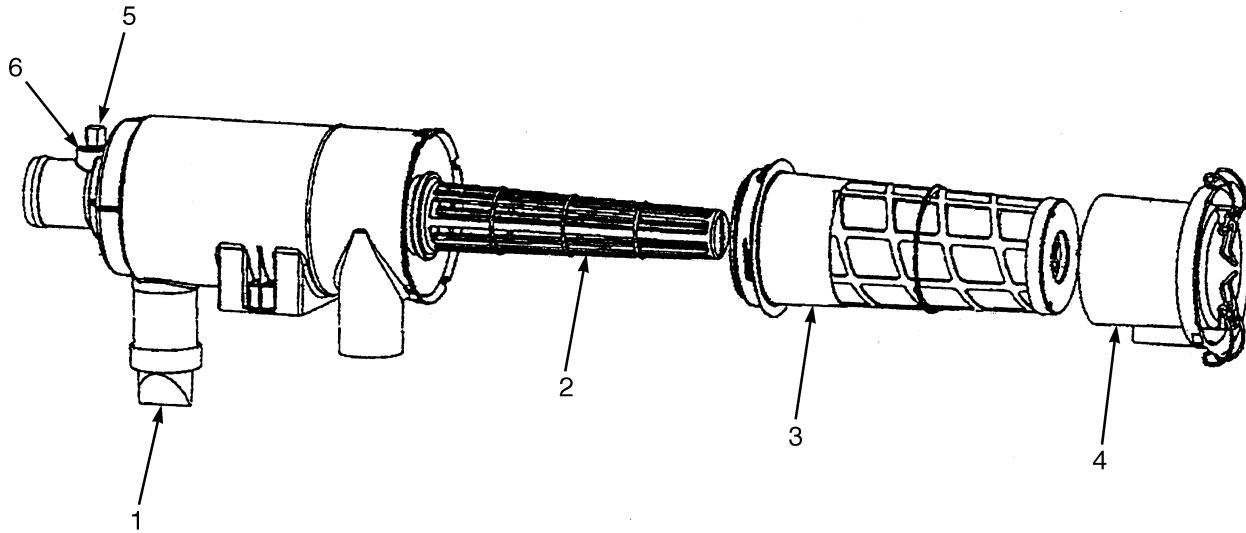
ITEM	PART NO.	DESCRIPTION	QTY
1	580048576	Grill	1
2	580074876	Hose	1
3	580039890	Hose Clamp	1
4	580074778	Coupler	1
5	505970524	Hose Clamp	4
6	580069181	Hose	1
7	a 580041002	Air Filter (☞ P22063 [Page 5-4]).....	1
7	b 582012057	Air Filter (☞ P22063 [Page 5-4]).....	1
8	580046412	Bracket	1
9	580056815	Capscrew	3
10	580044860	Insert	3
11	580047714	Capscrew	2
12	580073429	Hose	1
13	580008524	Hose Clamp	1
14	580046971	Indicator (Restriction)	1

FOOTNOTES:

a → 10/2010

b 10/2010 →

AIR FILTER ASSEMBLY (FIGURE 5-2)



BP130113

KEY:
A: LPG Engine

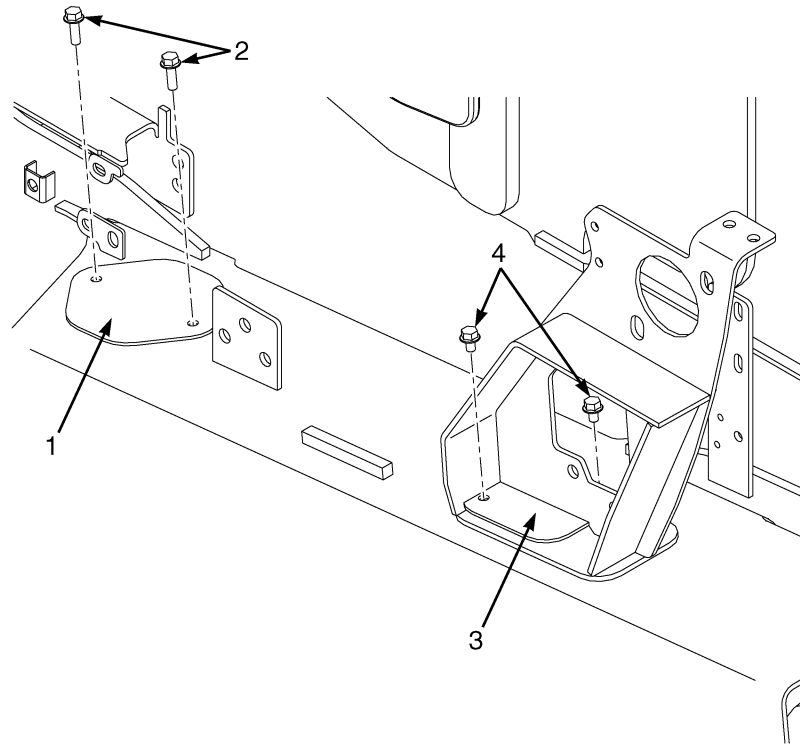
B: Diesel Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 580041002	Air Filter	1	..
	b 582012057	Air Filter	1	..
	582013931	Air Filter	..	1
1	505967516	Valve	1	..
2	580048840	Guide (With O-Ring)	1	..
2	580053911	Liner (With O-Ring)	..	1
3	580048839	Filter Element	1	..
3	580053908	Filter Element	..	1
4	580048841	Cover	1	..
4	580089948	Cover	..	1
5	580003427	Cap	1	1
6	b 582013700	Connector (Pipe Nipple)	1	1

FOOTNOTES:
a → 10/2010

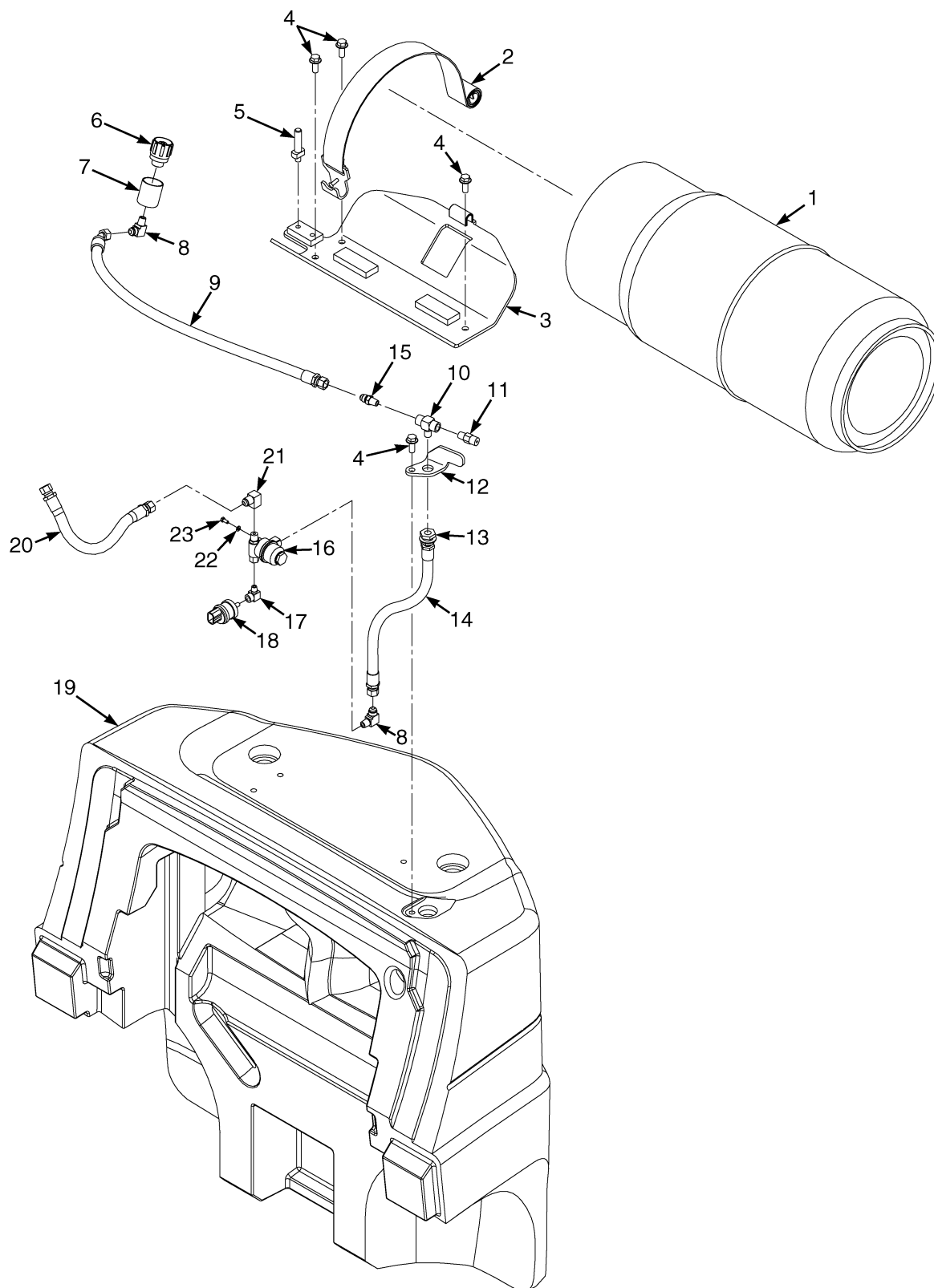
b 10/2010 →

**FUEL TANK COVERS (FIGURE 5-3)
LATIN AMERICAN SERIES**



ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Cover	1
2	580030966	Capscrew	2
3	.....	Cover	1
4	580037180	Capscrew	2
	580057351	Sealant	AR

LPG FUEL TANK AND MOUNTING (FIGURE 5-4)



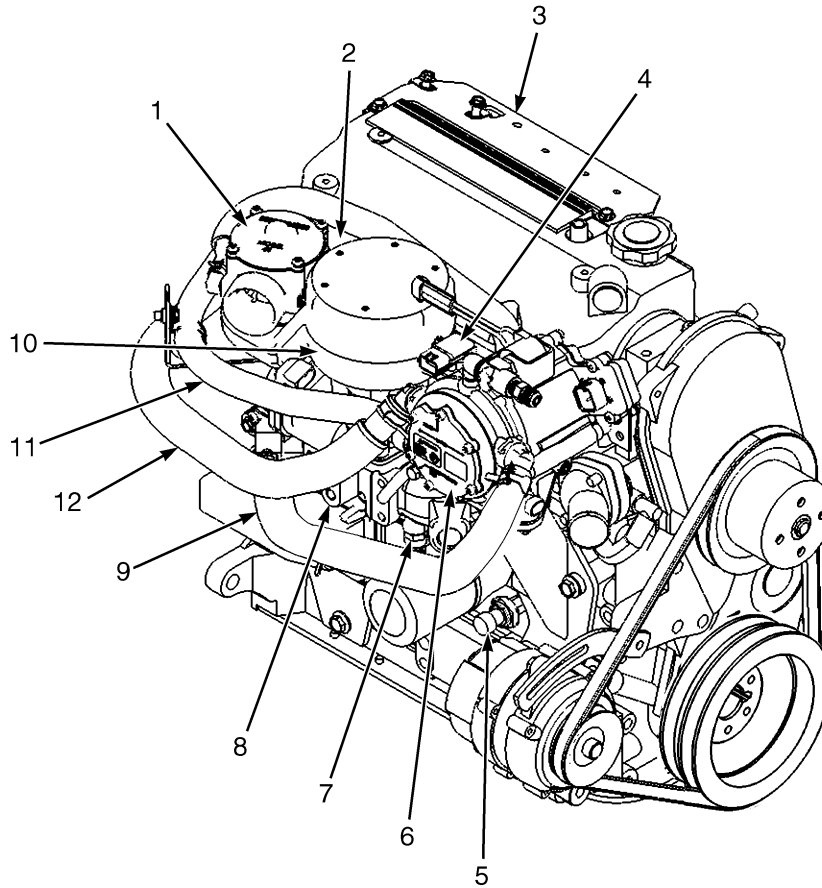
BP130310



LPG FUEL TANK AND MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
1	505967586	Lpg Tank (33.5 LB Steel)	1
1	580037838	LPG Tank (33.5 LB Aluminum)	1
2	582005075	Strap	1
3	582005302	LPG Tank Bracket	1
4	580030970	Capscrew	4
5	582009792	Pin	1
6	912514300	Fitting	1
7	580053000	Sleeve	1
8	056623800	Fitting	1
9	582009793	Hose Assy	1
10	013392600	Fitting	1
11	019299600	Relief Valve	1
12	582009794	Bracket	1
13	580027766	Fitting	1
14	582002292	Hose Assy	1
15	909267300	Fitting	1
16	580090374	Fuel Filter (LPG)	1
16	580090387	Kit-Filter Element	1
17	019930000	Fitting	1
18	580037008	Pressure Switch (Low Fuel)	1
19	312850042	Strap Clamp	1
20	582002989	Wire Harness (Adapter) (☞P22075 [Page 6-26]).....	1
21	580017034	Fitting	1
22	449021002	Washer	2
23	449001268	Capscrew	2
24	582013302	Hose Assy	1
25	.....	Counterweight (☞P21896 [Page 1-6]).....	1

FUEL SYSTEM (FIGURE 5-5)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



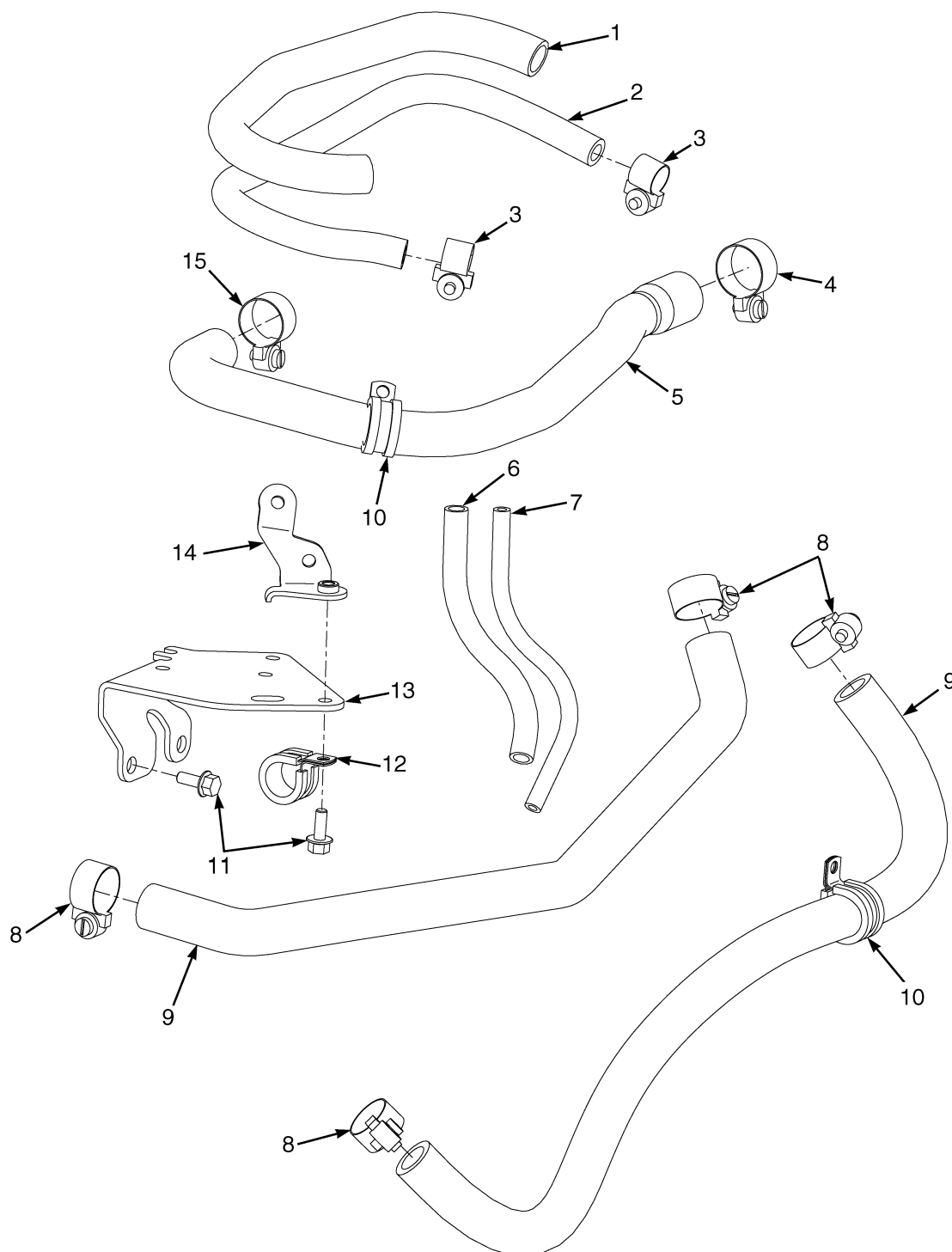
BP130244

ITEM	PART NO.	DESCRIPTION	QTY
1	580078224	Mixer (☞P21954 [Page 5-12]).....	1
2	580041817	Sensor (Air Temperature)	1
3	580078288	Bracket (Relay) (☞P21954 [Page 5-12]).....	1
4	580045523	Sensor (Boost, M.A.P.)	1
5	582006499	Pressure Transducer	1
5	580078287	Adapter	1
6	580094784	Pressure Regulator (EPR) (☞P21955 [Page 5-14]).....	1
7	582001685	Sensor (Temperature)	1
8	a 582002509	Engine Control Module (☞P22012 [Page 6-6]).....	1
8	b 582014546	Engine Control Module (☞P22012 [Page 6-6]).....	1
9	580078250	Hose (RH) (Cooling) (☞P21953 [Page 5-10]).....	2
10	580078220	Throttle Body (☞P21954 [Page 5-12]).....	1
11	580078248	Hose	1
12	580078250	Hose (RH) (Cooling)	1

FOOTNOTES:**a** → S/N A974V01949J**b** S/N A974V01950J →

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FUEL SYSTEM HOSES AND ATTACHING PARTS (FIGURE 5-6)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES

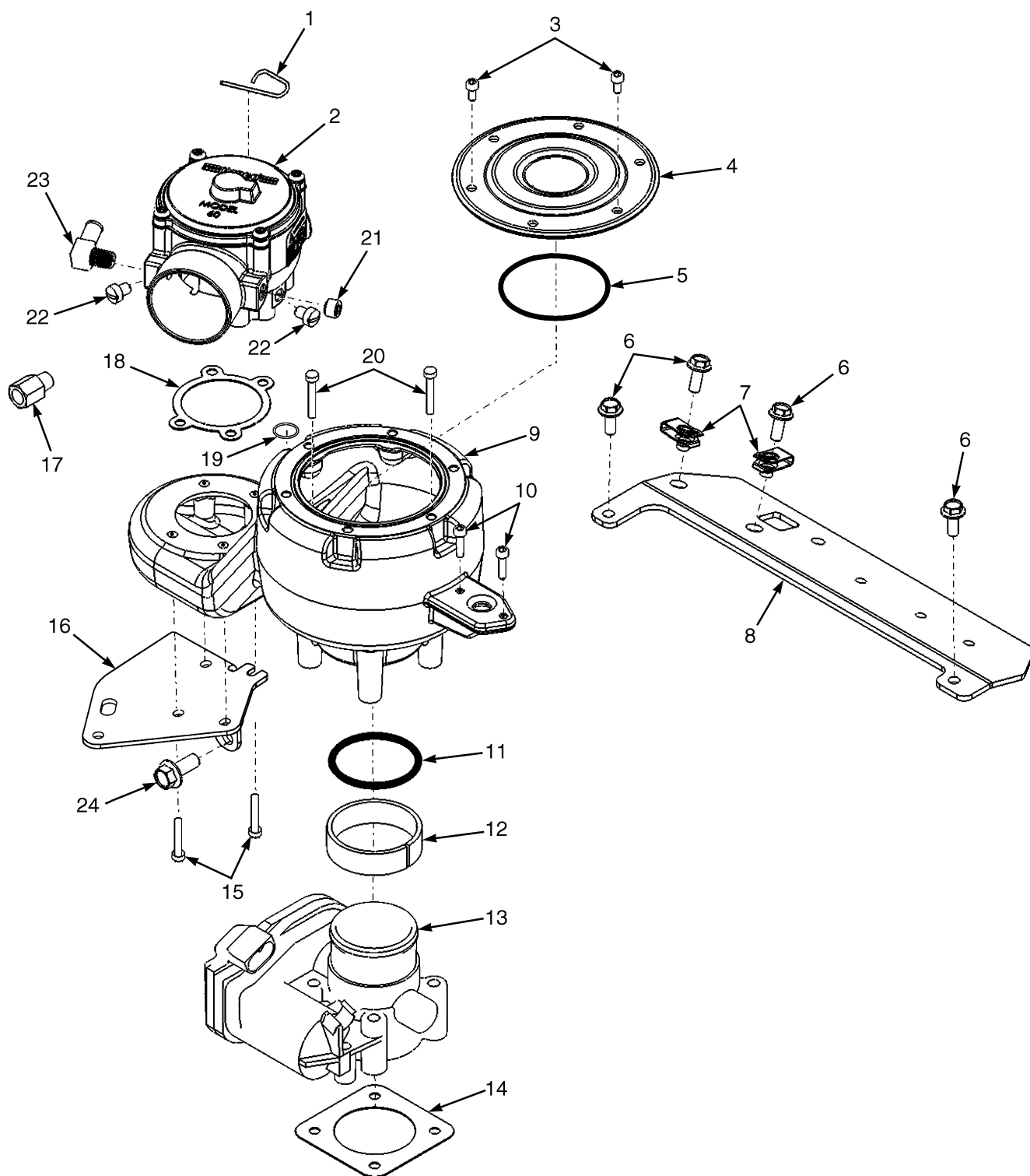


BP130317

**FUEL SYSTEM HOSES AND ATTACHING PARTS**
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	580078246	Hose	1
2	580078245	Hose (Vacuum Balance)	1
3	580067185	Hose Clamp	2
4	582005779	Hose Clamp	1
5	580078248	Hose (Fuel)	1
6	580078257	Hose	1
7	580078251	Hose (Vacuum)	1
8	582005777	Hose Clamp	4
9	580078250	Hose (RH) (Cooling)	2
10	580079546	Clamp	2
11	580049011	Capscrew	3
12	580079545	Clamp	1
13	580078228	Bracket	1
14	580078255	Bracket	1
15	582005778	Hose Clamp	1

MIXER AND THROTTLE BODY ASSEMBLY (FIGURE 5-7)
MAZDA 2.0L — 2010 EMISSION COMPLIANT ENGINES



BP130285



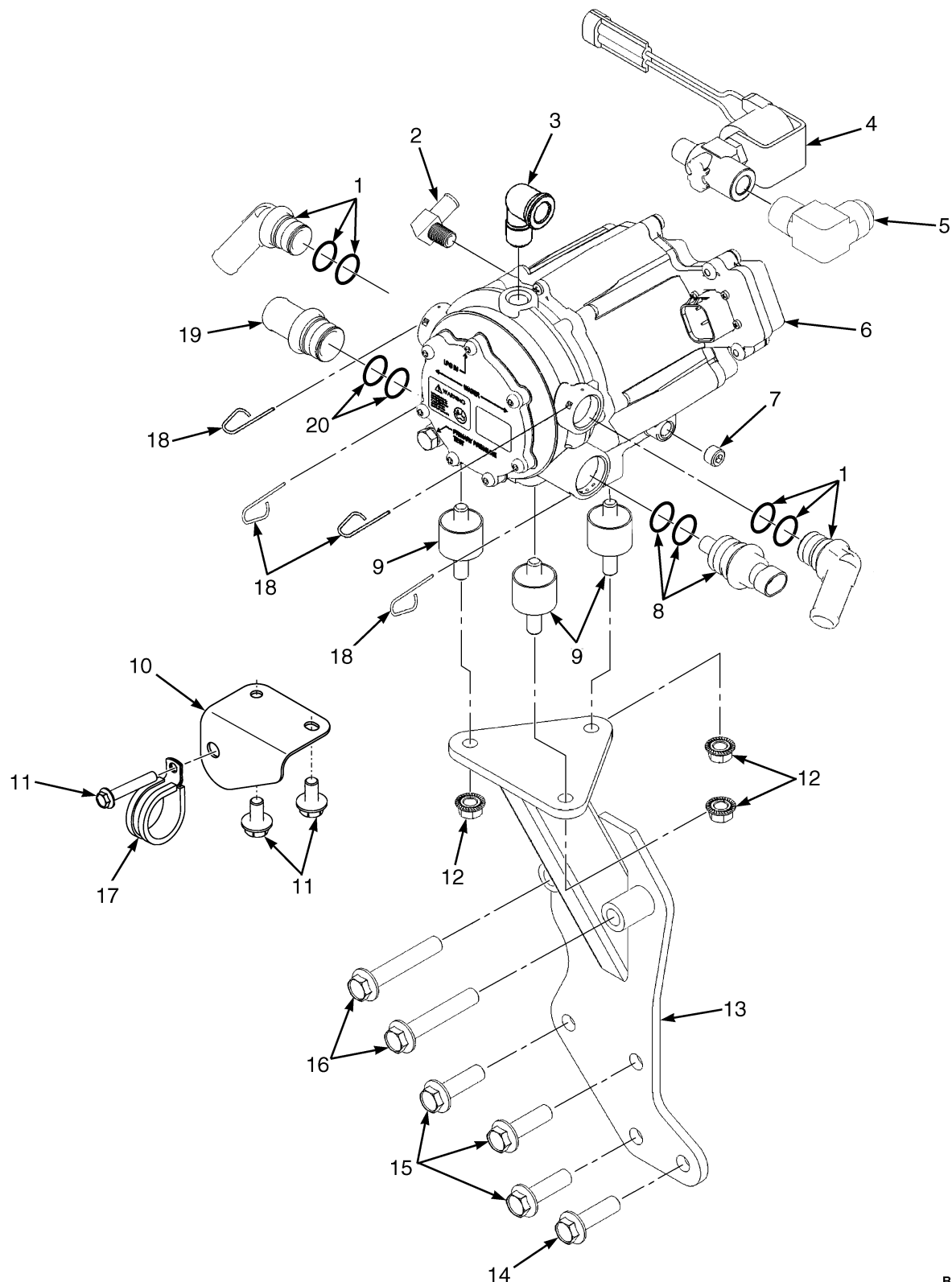
MIXER AND THROTTLE BODY ASSEMBLY
MAZDA 2.0L – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	580048590	Pin	4
2	580078224	Mixer	1
3	518798654	Screw	6
4	580078226	Cover	1
5	580077954	O-Ring	1
6	580048664	Bolt	6
7	580078218	Nut	2
8	580078288	Bracket (Relay)	1
9	580078227	Adapter	1
10	580006764	Capscrew	2
11	580078221	O-Ring	1
12	580078222	Sleeve	1
13	580078220	Throttle Body	1
14	580078285	Gasket (Throttle Body)	1
15	580078223	Screw	4
16	580078228	Bracket	1
17	580078287	Adapter	1
18	516987808	Gasket	1
19	580078219	Seal	1
20	580088461	Screw	4
21	580088462	Plug	1
22	505963547	Screw	2
23	505959522	Fitting	1
24	580049011	Capscrew	2
	a 580048664	Bolt (Throttle Body to Adapter)	4

FOOTNOTES:

a Not Illustrated

ELECTRONIC PRESSURE REGULATOR ASSEMBLY (FIGURE 5-8)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



BP130294

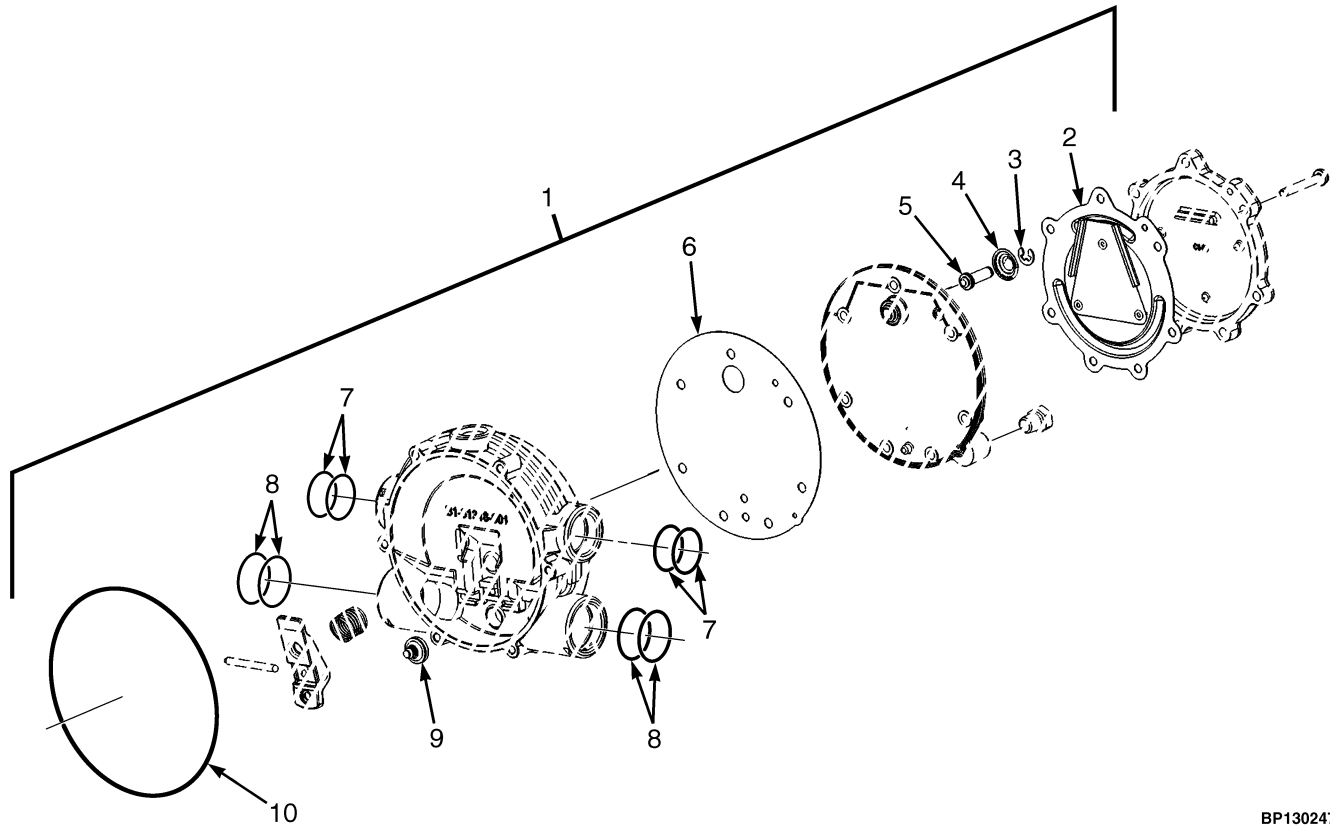


**ELECTRONIC PRESSURE REGULATOR ASSEMBLY
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES**

ITEM	PART NO.	DESCRIPTION	QTY
1	580048610	Fitting	2
2	505959522	Fitting	1
3	580078235	Fitting	1
4	a 580093615	Shutoff Valve	1
4	b 582017918	LPG Lock-Off	1
5	580078236	Fitting	1
6	580094784	Pressure Regulator	1
7	580088462	Plug	1
8	580086071	Sensor	1
8	580064014	O-Ring	2
9	580078232	Mount (Vibration)	3
10	580079547	Bracket	1
11	580049011	Capscrew	3
12	580027573	Nut (Flange)	3
13	580078238	Bracket	1
14	580078233	Screw	1
15	580078329	Screw	3
16	580078239	Screw	2
17	580079546	Clamp	1
18	580048590	Pin	4
19	580078229	Fitting	1
20	580064014	O-Ring	2

FOOTNOTES:**a** → PENDING PER ECN 154265**b** PENDING PER ECN 154265 →

ELECTRONIC PRESSURE REGULATOR KIT (FIGURE 5-9) (MAZDA 2.0L LPG)

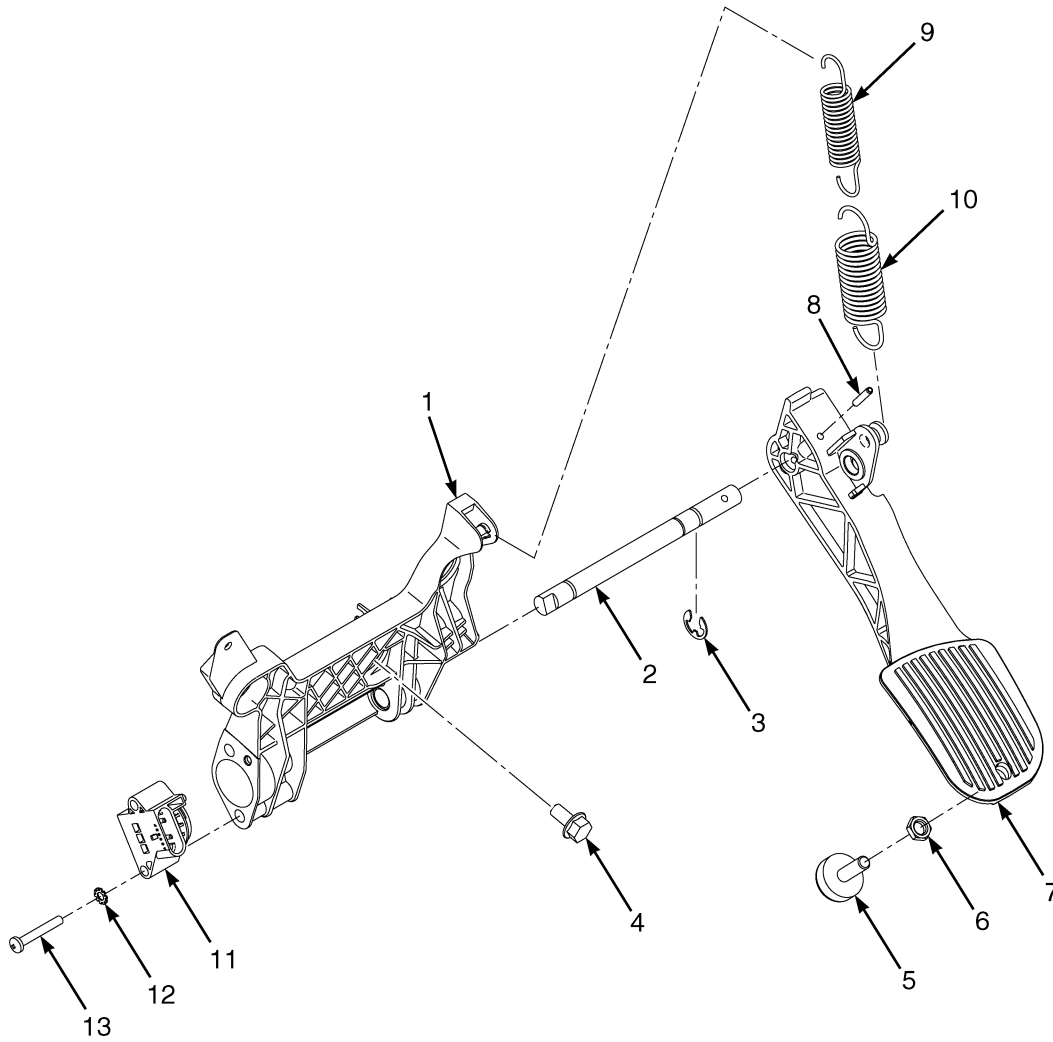


BP130247

ITEM	PART NO.	DESCRIPTION	QTY
	580094784	Pressure Regulator	1
1	582005706	Kit-Repair (Regulator Assembled)	1
2	.....	Diaphragm (Not Serviced Separately)	1
3	580001734	E-Ring (Primary)	1
4	.....	Spring (Not Serviced Separately)	1
5	580004656	Pin (Primary)	1
6	518807683	Gasket (Body Secondary)	1
7	.....	O-Ring (Not Serviced Separately)	4
8	580064014	O-Ring	4
9	.....	Seat (Not Serviced Separately)	1
10		Clamp Plate Seal (Not Serviced Separately)	1
	580078244	Kit-Repair (Electronic Pressure Regulator)	1

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THROTTLE PEDAL AND ATTACHING PARTS (FIGURE 5-10)

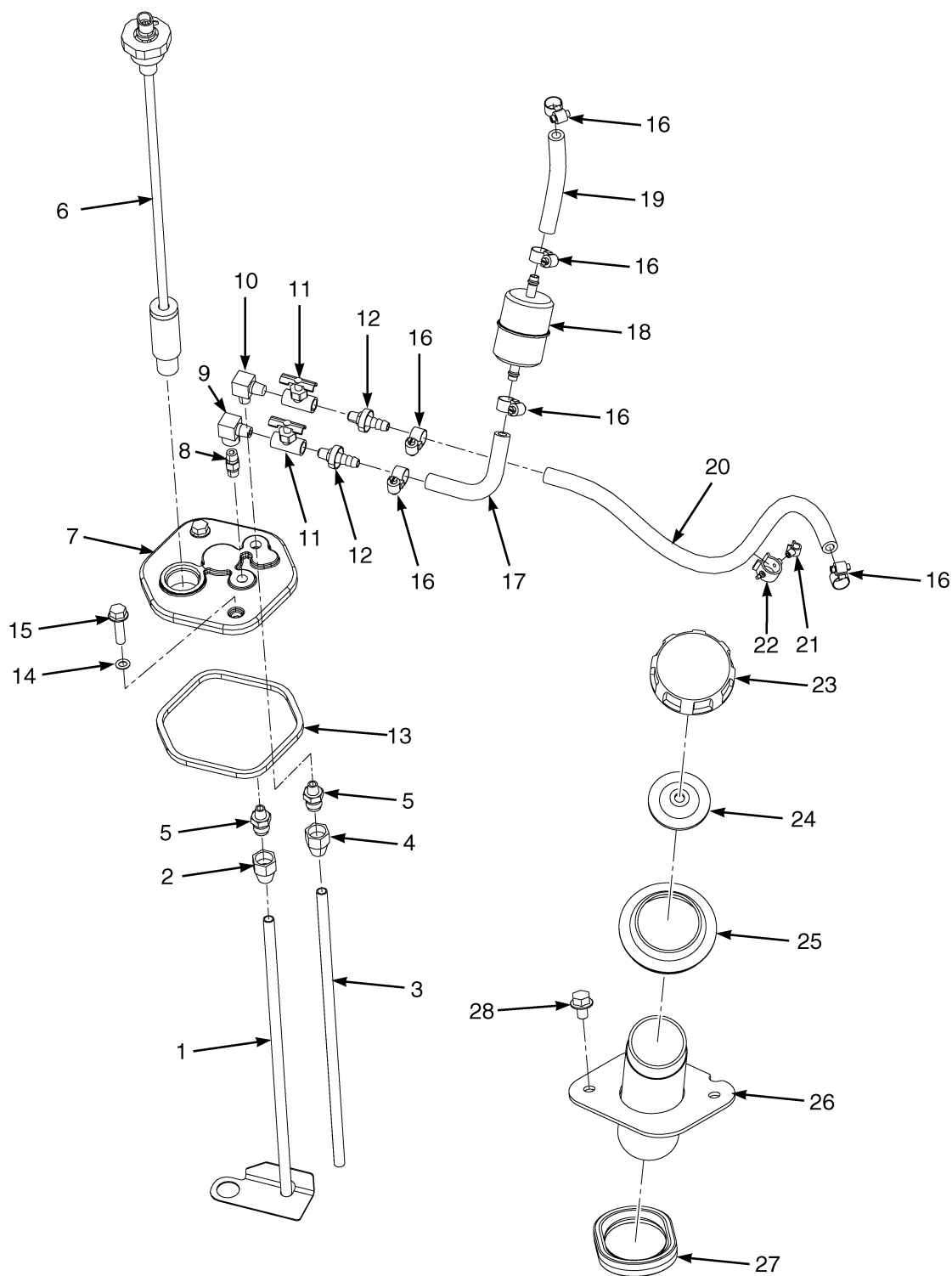


BP130319

**THROTTLE PEDAL AND ATTACHING PARTS**

ITEM	PART NO.	DESCRIPTION	QTY
1	580080022	Throttle Plate	1
2	580080021	Shaft	1
3	580038063	E-Ring	1
4	580047714	Capscrew	3
5	580037700	Screw (Stop)	1
6	580004592	Nut	1
7	580052661	Pedal (Standard)	1
8	449034011	Roll Pin	1
9	580056460	Spring (Inner)	1
10	580056459	Spring (Outer)	1
11	580043866	Sensor (Half Throttle Position)	1
12	940600906	Washer	2
13	580056839	Capscrew	2

FUEL SYSTEM (FIGURE 5-11)
YANMAR 2.6L DIESEL



BP130323



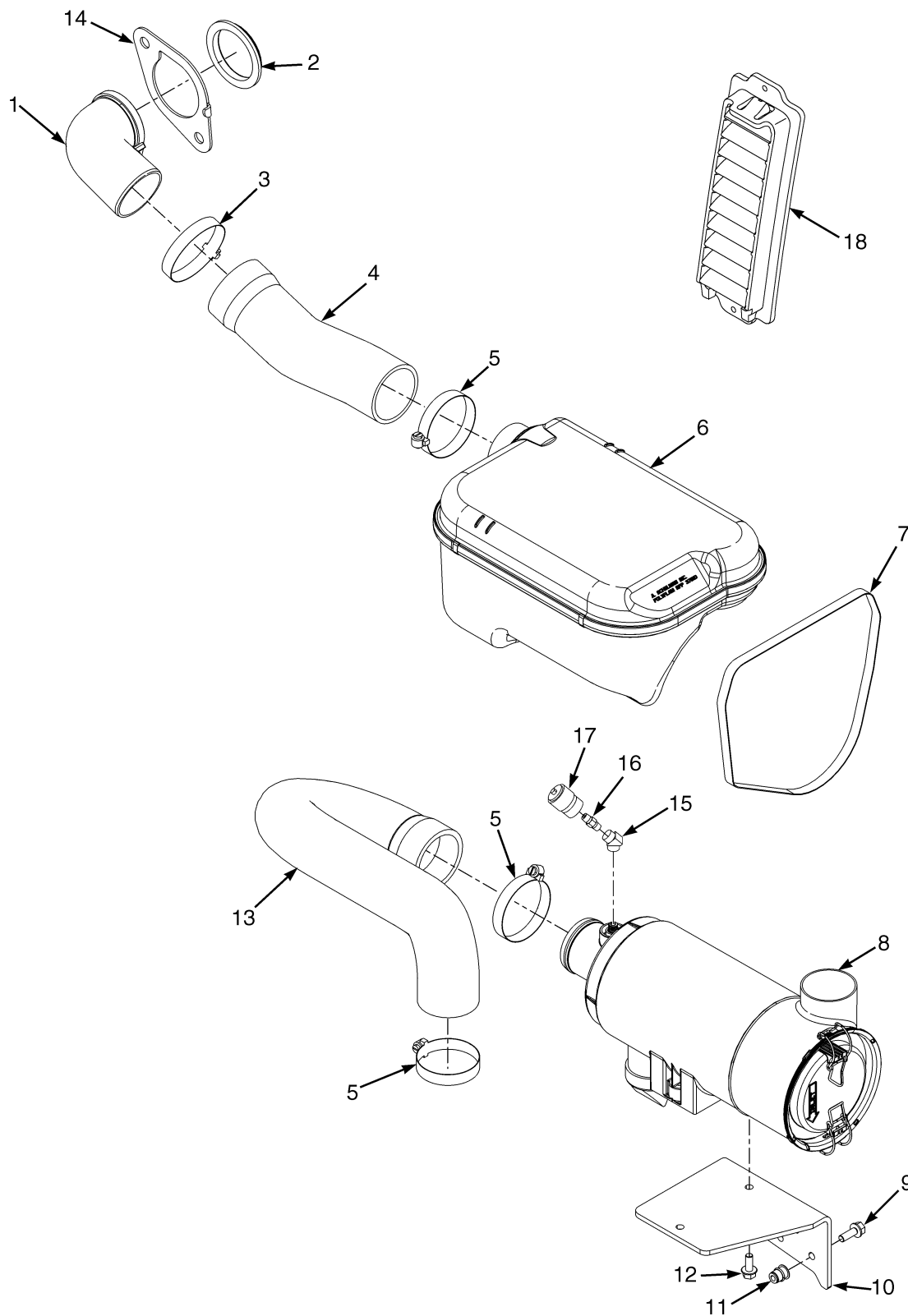
FUEL SYSTEM
YANMAR 2.6L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	580039140	Fuel Sender Assembly	1
1	580039139	Tube Assembly	1
2	505970510	Fitting	1
3	580039139	Tube Assembly	1
4	505970510	Fitting	1
5	505970506	Fitting	2
6	580043375	Fuel Sender	1
7	580039138	Cover	1
8	052337300	Fitting	1
9	019930000	Fitting	1
10	500132901	Fitting	1
11	900007271	Drain Valve (Shut-Off)	2
12	580011154	Fitting	2
13	580036870	Quad Ring	1
14	580049229	Capscrew	2
15	514214804	O-Ring	2
16	511405800	Clamp	6
17	580066305	Hose	1
18	900001224	Fuel Filter	1
19	580049329	Hose	1
20	580042356	Hose	1
21	580042331	Clamp (Swivel)	1
22	580045546	Clamp (Swivel)	1
23	919890404	Fuel Cap	1
24	912207300	Gasket	1
25	580036738	Grommet	1
26	580050475	Pipe (Fill)	1
27	580037249		
	580060203	Seal	1
28	580037180	Capscrew	2
	a 502058911	Adhesive	1

FOOTNOTES:

a Not Illustrated

AIR INTAKE SYSTEM (FIGURE 5-12)
YANMAR 2.6L DIESEL

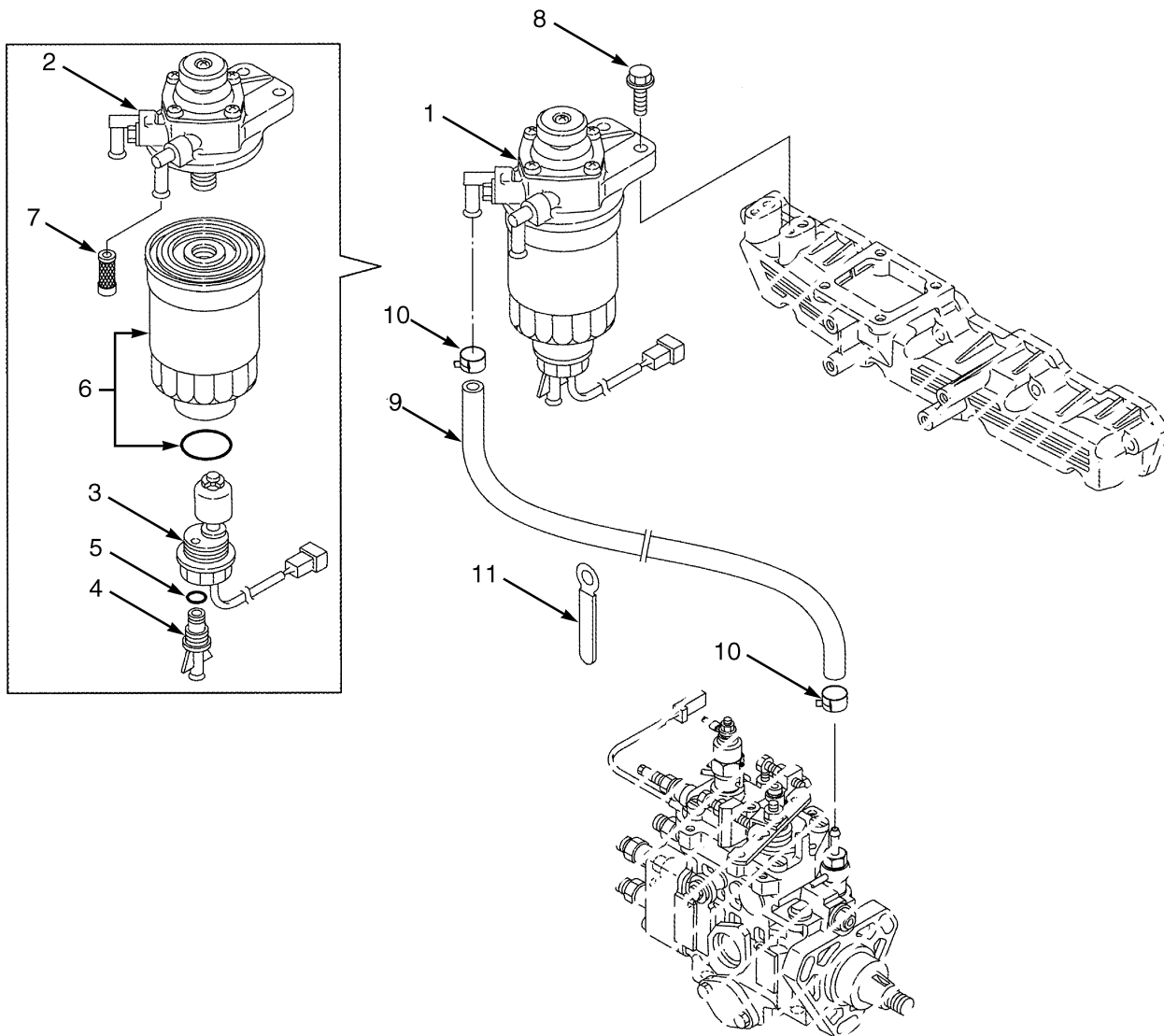


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**AIR INTAKE SYSTEM
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	580055561	Elbow	1
2	580042932	Grommet (Intake)	1
3	580000180	Hose Clamp	1
4	580051782	Hose (Dirty Air)	1
5	505970524	Hose Clamp	3
6	580086972	Silencer	1
6	580076865	Clip	6
6	012829800	O-Ring	1
7	580073620	Strap	1
8	582013931	Air Filter (P22063 [Page 5-4]).....	1
9	580056815	Capscrew	3
10	580046413	Bracket	1
11	580047714	Capscrew	2
12	580044860	Insert	3
13	580052286	Hose (Clean Air)	1
14	580055562	Retainer	1
15	580048954	Fitting	1
16	052337300	Fitting	1
17	580046971	Indicator (Restriction)	1
18	580048576	Grill	1

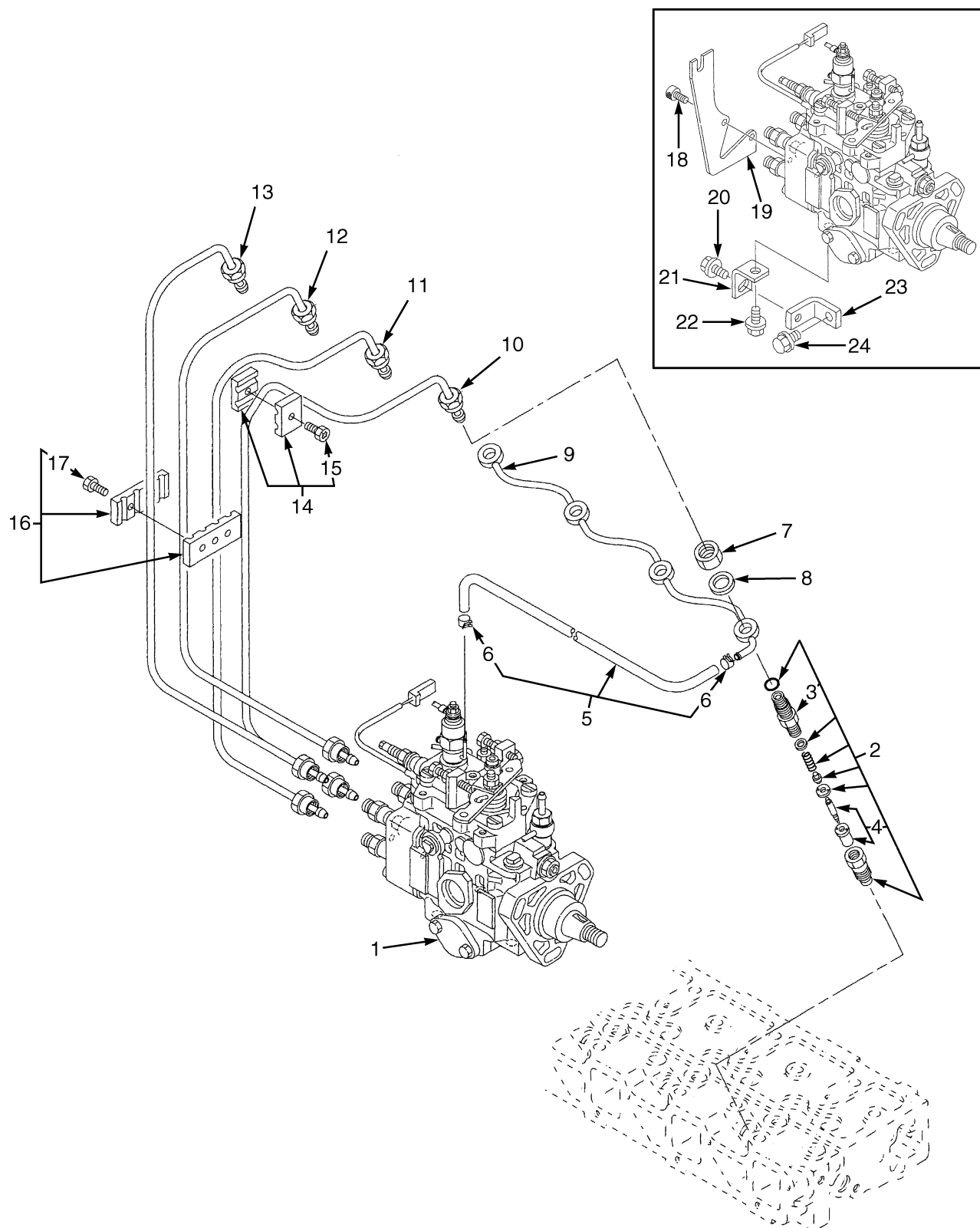




**FUEL FILTER
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062738	Fuel Filter	1
2	580062739	Body (Primer Pump)	1
3	580062740	Sensor	1
4	580062741	Drain Plug	1
5	580062742	O-Ring	1
6	580068075	Fuel Filter (Cartridge 10 micron)	1
7	580062744	Filter	1
8	580062706	Bolt	2
9	580062745	Tube Assy	1
10	580062746	Clamp	2
11	580062747	Clamp	2

FUEL INJECTION (FIGURE 5-14)
YANMAR 2.6L DIESEL



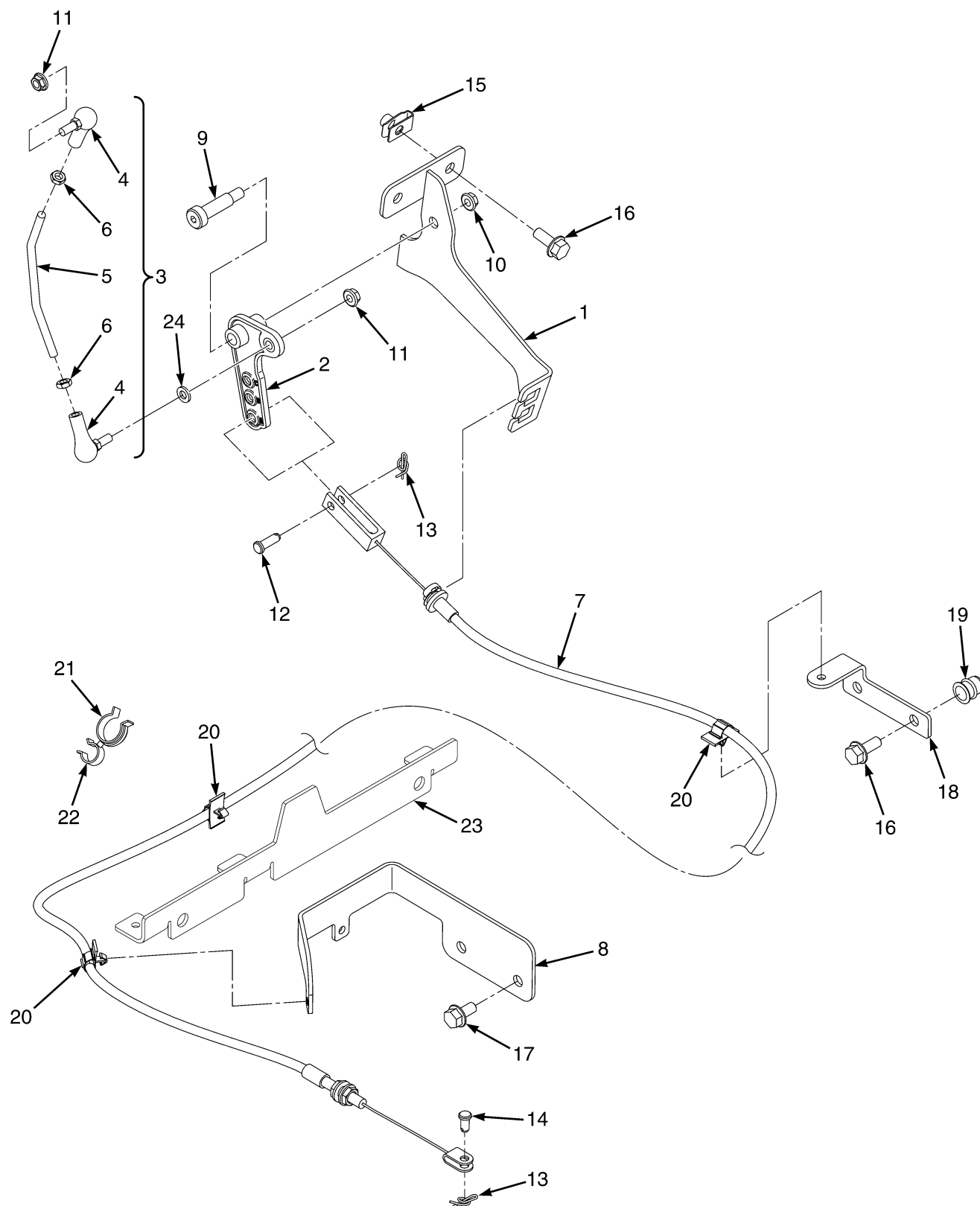
HP091421



**FUEL INJECTION
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	580090035	Engine Assy-Diesel	1
1	580062808	Injection Pump	4
1	580064998	Solenoid (Fuel Shut-Off)	1
1	580065072	Solenoid Valve (Cold Start)	1
1	580065073	O-Ring	1
2	580062723	Injector (Valve Assembly)	1
3	580062725	Retainer	1
4	580062724	Nozzle	1
5	580062733	Tube Assy	1
6	580062734	Clamp	2
7	580062737	Nut	4
8	580062736	Gasket	4
9	580062735	Tube Assy (Fuel Return)	1
10	580062732	Tube Assy (#4) (Fuel Injector)	1
11	580062731	Tube Assy (#3) (Fuel Injector)	1
12	580062730	Tube Assy (#2) (Fuel Injector)	1
13	580062729	Tube Assy (#1) (Fuel Injector)	1
14	580062726	Retainer	2
15	580062727	Bolt	1
16	580062728	Retainer	1
17	580062727	Bolt	2
18	580062802	Bolt	2
19	580062801	Bracket	1
20	580062806	Bolt	1
21	580062803	Retainer	1
22	580062805	Bolt	1
23	580062804	Bracket	1
24	580062807	Bolt	1
	580062799	Kit-Gasket (2.6L Engine Complete)	1

THROTTLE CABLE LINKAGE (FIGURE 5-15)
YANMAR 2.6L DIESEL



BP130324



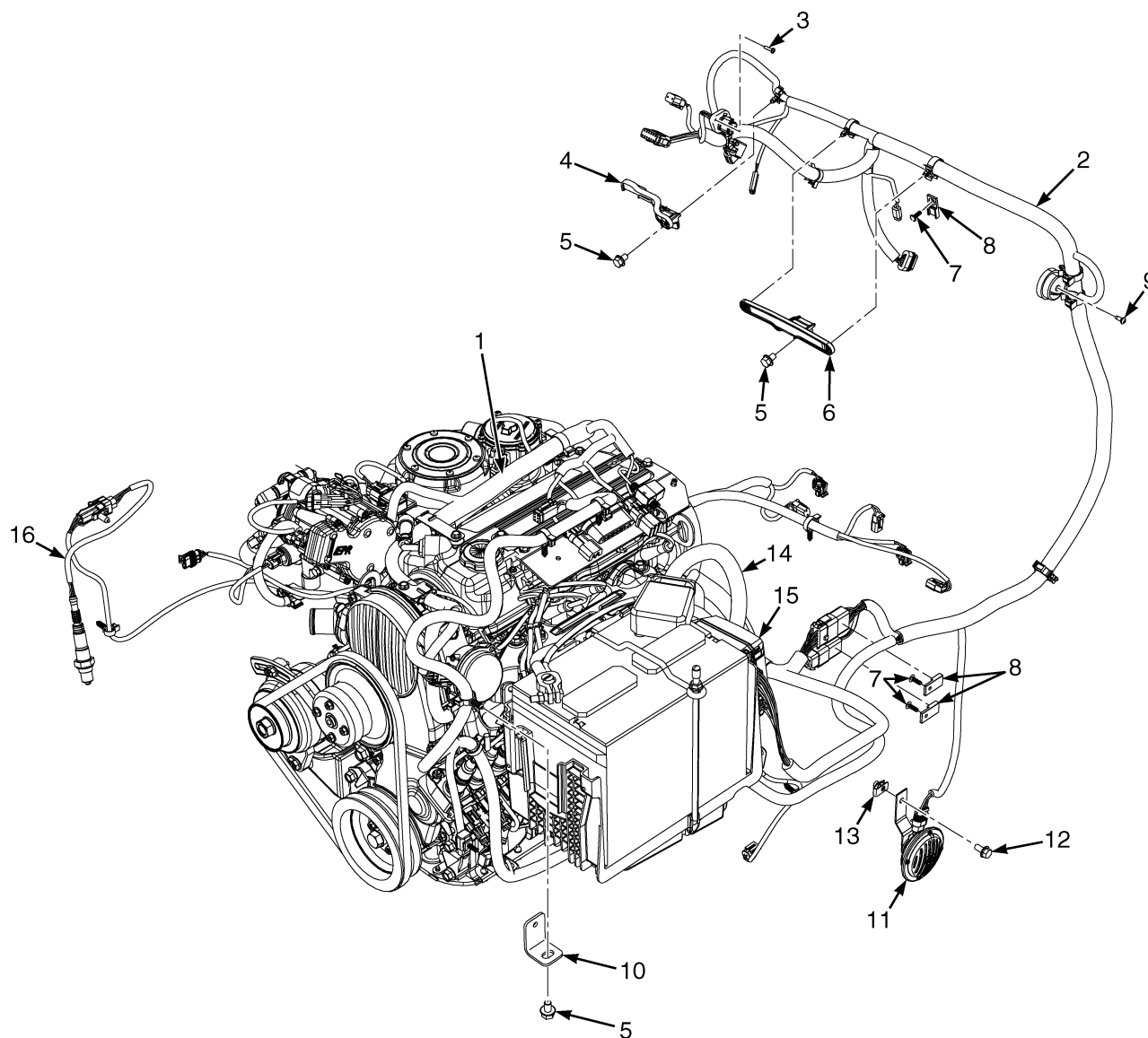
THROTTLE CABLE LINKAGE **YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	582006916	Bracket (Throttle Cable)	1
2	580040992	Bellcrank	1
3	580041096	Push Rod	1
4	927937300	Ball Joint	2
5	580041083	Push Rod	1
6	937701906	Nut	2
7	580048455	Throttle Cable	1
8	580042340	Bracket	1
9	580014315	Bolt	1
10	449015098	Nut	1
11	580004321		
	580047919	Nut	2
12	900011212	Pin	1
13	580056840	Locking Ring Cotter Pin	2
14	580063943	Pin	1
15	580026621	Nut	2
16	580049231	Capscrew	2
17	580047714	Capscrew	4
18	582006915	Bracket (Throttle Cable)	1
19	580044860	Insert	2
20	580052685	Clip	3
21	580042331	Clamp (Swivel)	1
22	580045546	Clamp (Swivel)	1
23	582015061	Bracket (Throttle Cable)	1
24	449021003	Washer	1

SECTION 6 ELECTRICAL SYSTEM

DESCRIPTION	PAGE
ALTERNATOR AND MOUNTING	
YANMAR 2.6L DIESEL	6-31
BATTERY AND CABLES	6-8
DISPLAY CLUSTER	6-12
ELECTRICAL ARRANGEMENT	
MAZDA	6-2
ENGINE CONTROL MODULE	
MAZDA 2.0L LPG	6-6
ENGINE ELECTRICAL COMPONENTS	
MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	6-4
ENGINE ELECTRICAL SYSTEM	
YANMAR 2.6L DIESEL	6-28
FUEL SYSTEM SENSORS	
MAZDA 2.0L LPG - 2010 EMISSION COMPLIANT ENGINES	6-7
LIGHTS	
STOP, TAIL, TURN, BACKUP, AND STROBE - WITH OVERHEAD GUARD	6-10
WIRE HARNESS	
MAZDA 2.0L LPG - POWERTRAIN	6-14
RH CHASSIS - SHEET 1 OF 2 (→ S/N A974V01949J)	6-18
RH CHASSIS - SHEET 2 OF 2 (→ S/N A974V01949J)	6-20
RH CHASSIS - SHEET 1 OF 2 (S/N A974V01950J →)	6-22
RH CHASSIS - SHEET 2 OF 2 (S/N A974V01950J →)	6-24
YANMAR 2.6L DIESEL - POWERTRAIN	6-32
YANMAR 2.6L DIESEL - FUSED ALTERNATOR	6-36
WIRE HARNESS ADAPTER	
LOW FUEL PRESSURE	6-26

ELECTRICAL ARRANGEMENT (FIGURE 6-1)
MAZDA



BP080998



ELECTRICAL ARRANGEMENT MAZDA

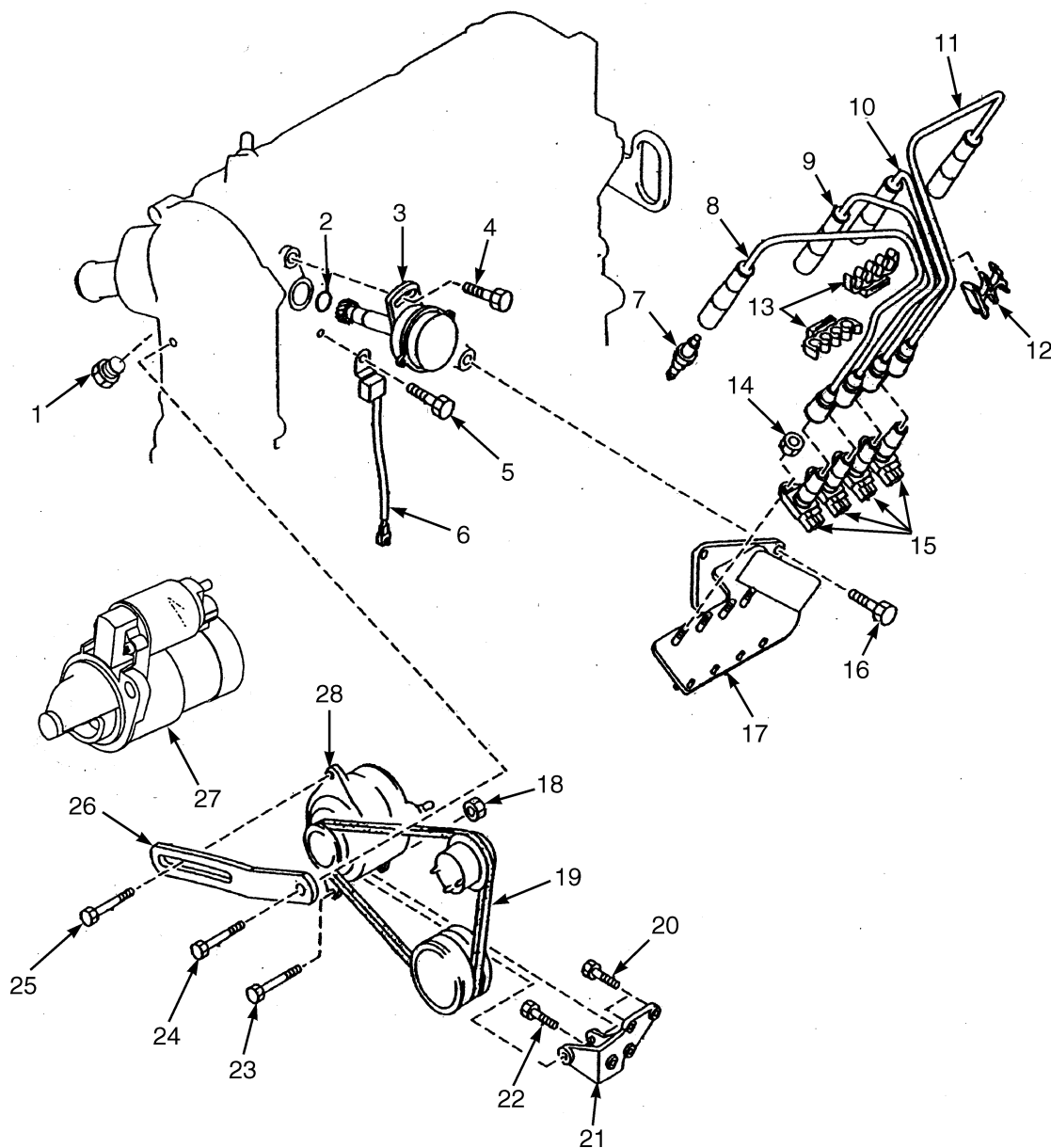
ITEM	PART NO.	DESCRIPTION	QTY
1	582005468		
	582015158	Wire Harness (Powertrain) (☞P22015 [Page 6-14]).....	1
2	a 582003496	Wire Harness (RH Chassis) (☞P22013 [Page 6-18], ☞P22014 [Page 6-20]).....	1
2	b 582014491	Wire Harness (RH Chassis) (☞P23335 [Page 6-22], ☞P23336 [Page 6-24]).....	1
3	580047200	Screw	2
4	580096474	Bracket (Left Hand)	1
5	580037180	Capscrew	3
6	580096475	Bracket (Right Hand)	1
7	580056613	Fastener	5
8	580026812	Clip	3
9	582003822	Screw	1
10	582003214	Bracket	1
11	582006520	Horn	1
12	580047714	Capscrew	1
13	580026621	Nut	1
14	.....	Battery and Cables (☞P22043 [Page 6-8]).....	1
15	.....	Power Distribution Module (☞P22043 [Page 6-8]).....	1
16	580076752	Sensor (Oxygen)	1

FOOTNOTES:

a → S/N A974V01949J

b S/N A974V01950J →

ENGINE ELECTRICAL COMPONENTS (FIGURE 6-2)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



BP080563



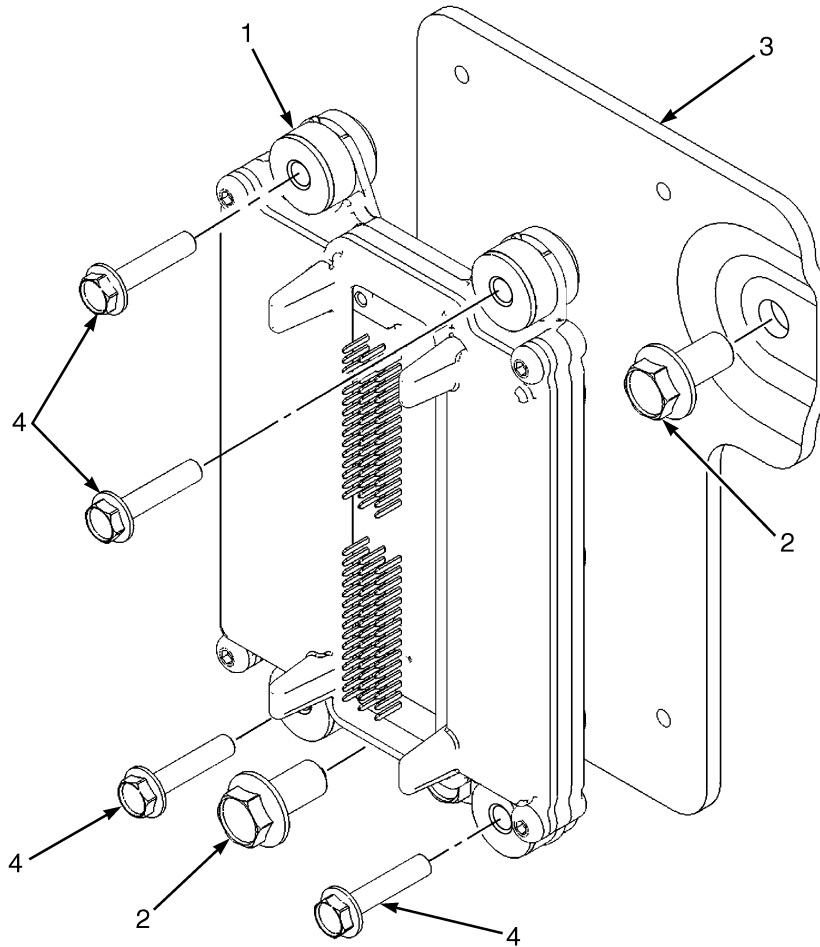
ENGINE ELECTRICAL COMPONENTS
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	580046878	Plug	1
2	900294855	O-Ring	1
3	580078991	Camshaft Position Sensor	1
4	901303832	Bolt	1
5	901290828	Bolt	1
6	580078993	Condenser	1
7	505960535	Spark Plug	4
8	580078987	Ignition Cable	1
9	580078988	Ignition Cable	1
10	580078989	Ignition Cable	1
11	580078990	Ignition Cable	1
12	580078983	Support (Spark Plug Wires)	1
13	580078982	Support (Spark Plug Wires)	2
14	900590834	Nut	1
15	580078979	Ignition Coil	4
16	580078978	Bolt	2
17	580078980	Bracket (Ignition Coil)	1
18	901860805	Nut	1
19	901303836	V-Belt (2.0L 2400 RPM)	1
20	900724803	Bolt	3
21	901950814	Bracket	1
22	901085834	Bolt	1
23	901097863	Bolt	1
24	901292820	Bolt	1
25	580024160	Bolt	1
26	901950812	Strap	1
27	580040914	Starter	1
28	582005178	Alternator	1
	a 580046451	Capscrew (Starter Mounting)	2
	a 901860807	Pressure Switch (Oil)	1
	580078981	Kit-Ignition Cable	1

FOOTNOTES:

a Not Illustrated

ENGINE CONTROL MODULE (FIGURE 6-3)
MAZDA 2.0L LPG

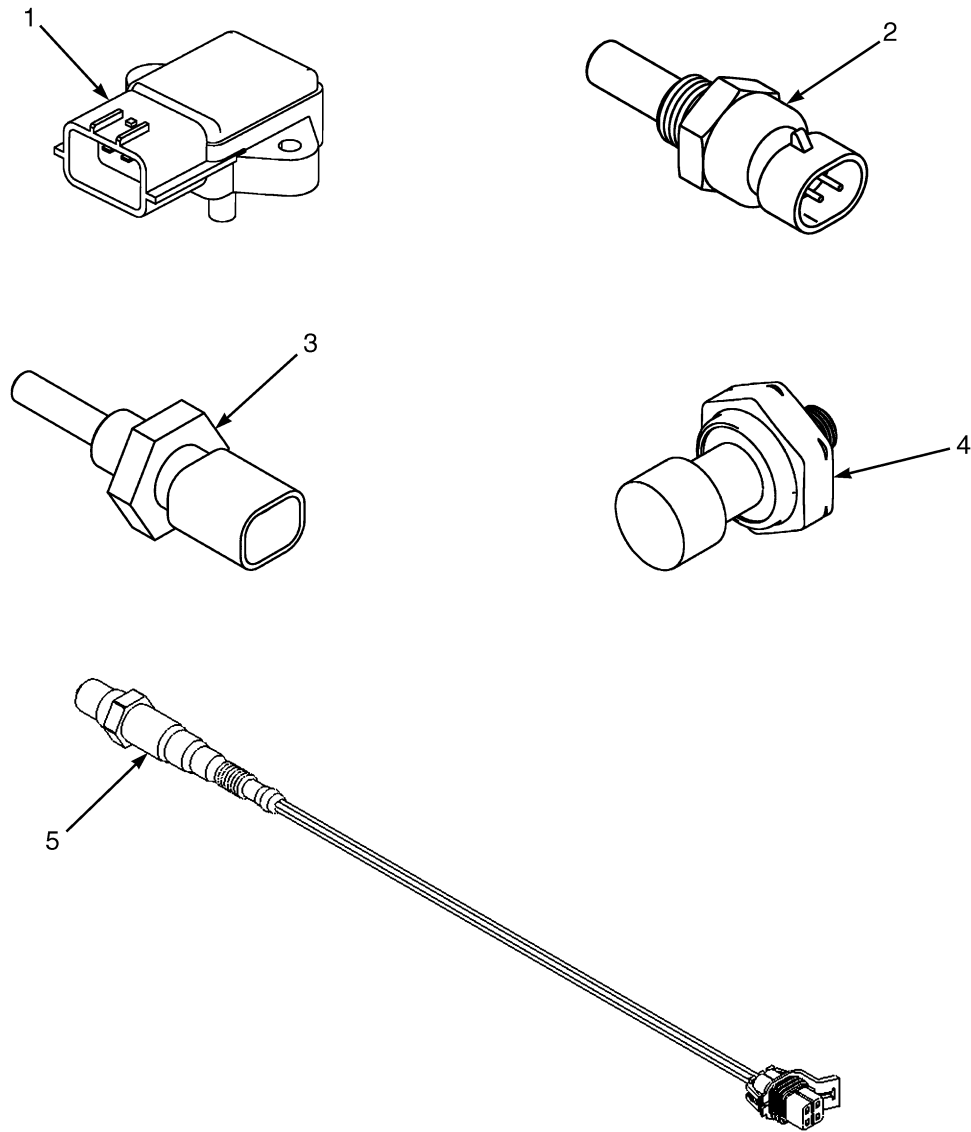


BP080543

ITEM	PART NO.	DESCRIPTION	QTY
1	a 582002509	Engine Control Module (2700 RPM)	1
1	b 582014546	Engine Control Module	1
2	580080338	Screw	2
3	580078294	Bracket	1
4	580038355	Capscrew	4

FOOTNOTES:**a** → S/N A974V01949J**b** S/N A974V01950J →

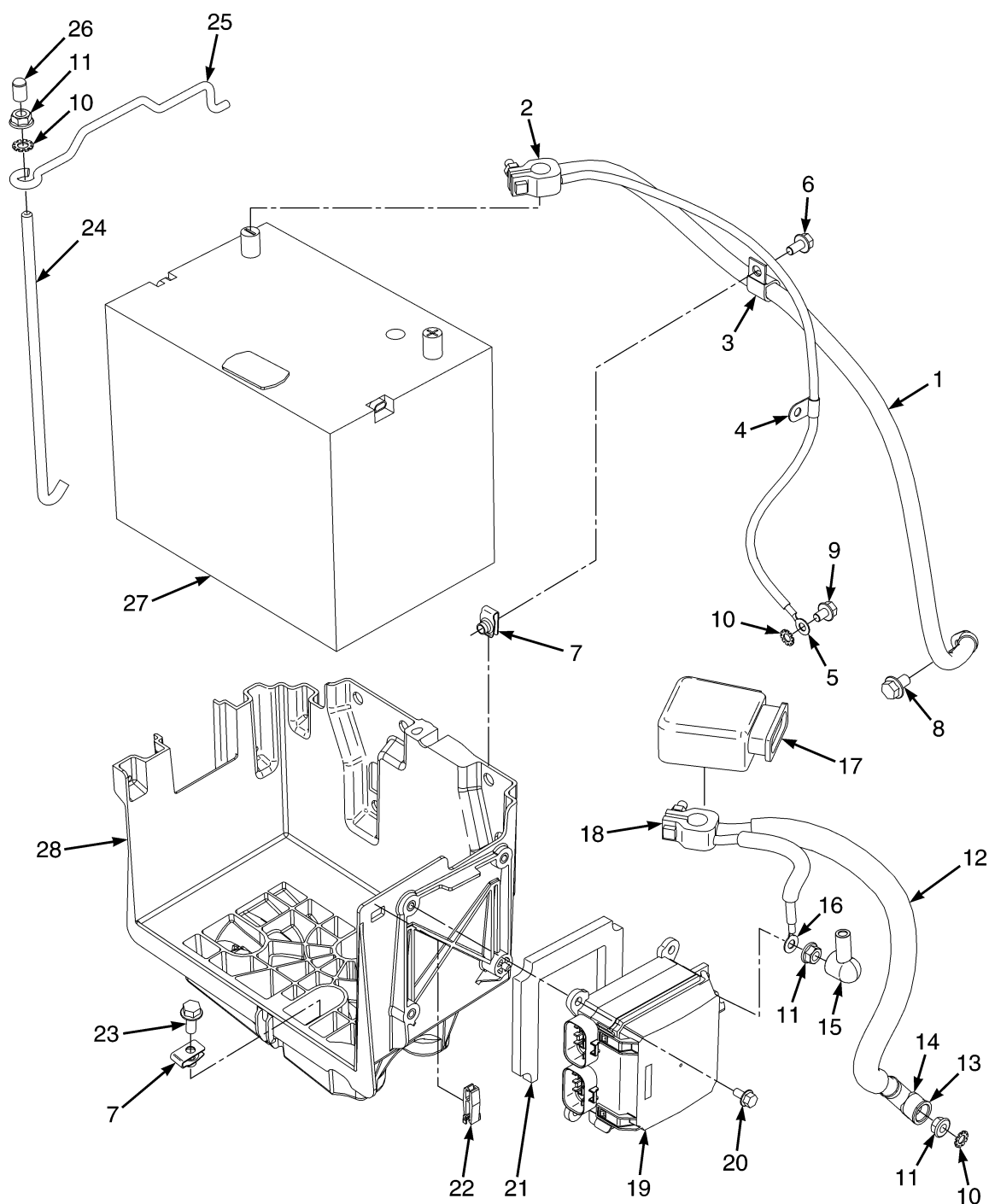
FUEL SYSTEM SENSORS (FIGURE 6-4)
MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



BP080544

ITEM	PART NO.	DESCRIPTION	QTY
1	580045523	Sensor (Boost, M.A.P.) (Boost)	1
2	580041817	Sensor (Air Temperature)	1
3	582001685	Sensor (Temperature)	1
4	582006499	Pressure Transducer	1
5	580076752	Sensor (Oxygen)	2

BATTERY AND CABLES (FIGURE 6-5)



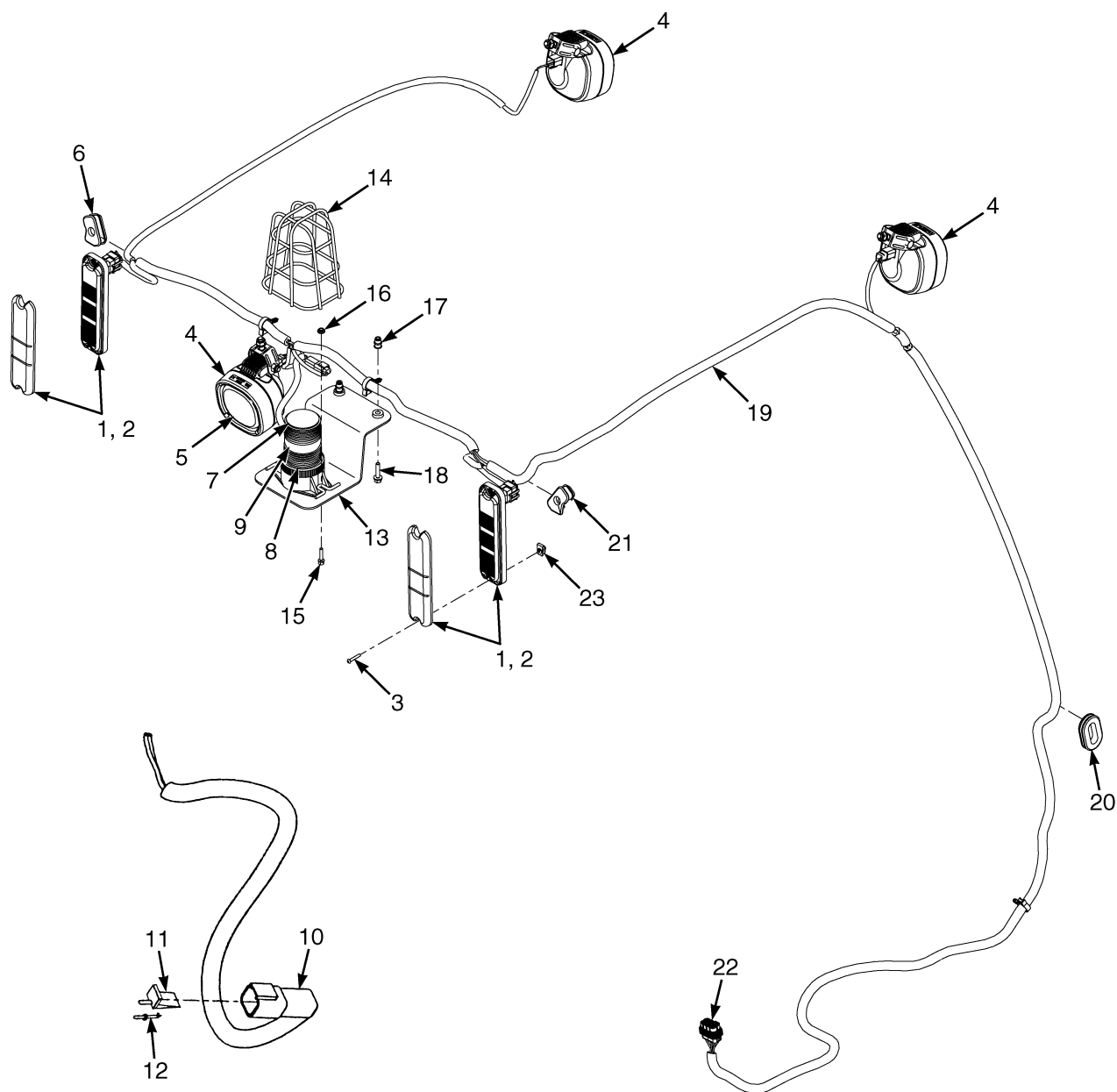
BP080999



BATTERY AND CABLES

ITEM	PART NO.	DESCRIPTION	QTY
1	580050644	Battery Cable	1
1	580073520	Battery Cable	AR
1	580076450	Wire-Bulk	AR
2	580063618	Terminal	1
3	505970529	Clamp	1
4	580050293	E-Ring	1
5	580006553	E-Ring	1
6	580047714	Capscrew	1
7	580026621	Nut	4
8	580047792	Bolt	1
9	580037180	Capscrew	1
10	940600908	Washer	3
11	580027573	Nut (Flange)	4
12	580091916	Battery Cable (Positive)	1
12	580073519	Battery Cable (Red)	AR
12	580074878	Wire (Bulk)	AR
13	580063617	Terminal	1
14	505976537	Boot	1
15	580052019	Boot	1
16	580006553	E-Ring	1
17	580040374	Boot	1
18	580063616	Terminal	1
19	582003951	Fuse Box	1
20	580039900	Capscrew	3
21	580056730	Seal	1
22	580023854	Fuse Puller	1
23	580049231	Capscrew	3
24	580046263	Link (Battery Hold Down)	1
25	580075004	Link (Battery Hold Down)	1
26	580041768	Cap	1
27	520052851	Start Battery Wet	1
27	580076313	Start Battery Wet (Optional)	1
28	580074432	Battery Tray (Plastic)	1

LIGHTS (FIGURE 6-6)
STOP, TAIL, TURN, BACKUP, AND STROBE — WITH OVERHEAD GUARD



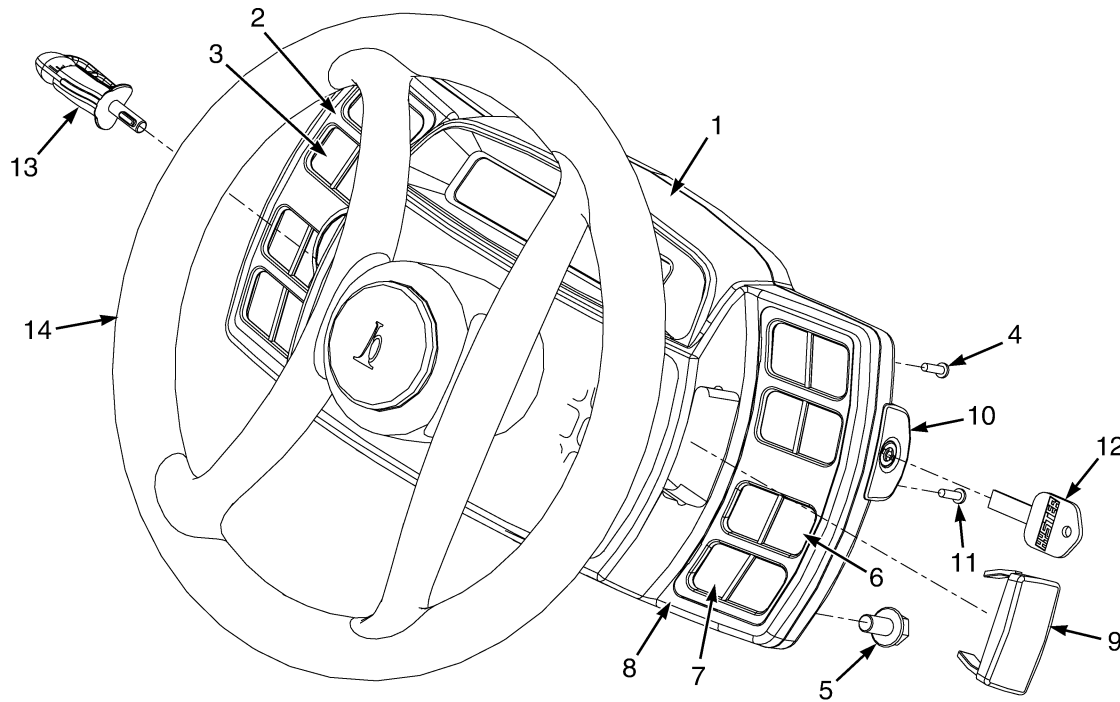
BP080951



LIGHTS

STOP, TAIL, TURN, BACKUP, AND STROBE – WITH OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	580037207	Brake/Backup Light (Stop, Turn, Tail, And Back-Up)	2
1	.....	Tail Light Base	2
2	580037209	Reflector (Tail)	2
3	580051168	Screw	4
4	580082532	Work Light (Rear) (Halogen)	1
4	580082533	Work Light (RH Front) (Halogen)	1
4	580082534	Work Light (LH Front) (Halogen)	1
5	580082531	Bulb (Halogen)	1
6	580049225	Grommet (LH Tail Light)	1
7	580040850	Nut	4
8	580079615	Strobe Light Assembly	1
9	580000037	Strobe Light	1
10	580056006	Connector	1
11	580056004	Connector (Secondary Lock)	1
12	580041195	Terminal Pin	2
13	580051159	Bracket Wldmt	1
14	504232297	Guard	1
15	580058314	Capscrew	2
16	580058188	Nut	2
17	580044859	Insert	2
18	580058212	Capscrew	2
19	582003497	Wire Harness	1
20	580041360	Grommet	1
21	580049224	Grommet (RH Tail Light)	1
22	.....	Connector Assembly (PDM)	1
22	582002866	Connector	1
22	580034509	Lock	1
22	504288730	Seal	7
22	504288733	Terminal	6
22	505968505	Seal	1

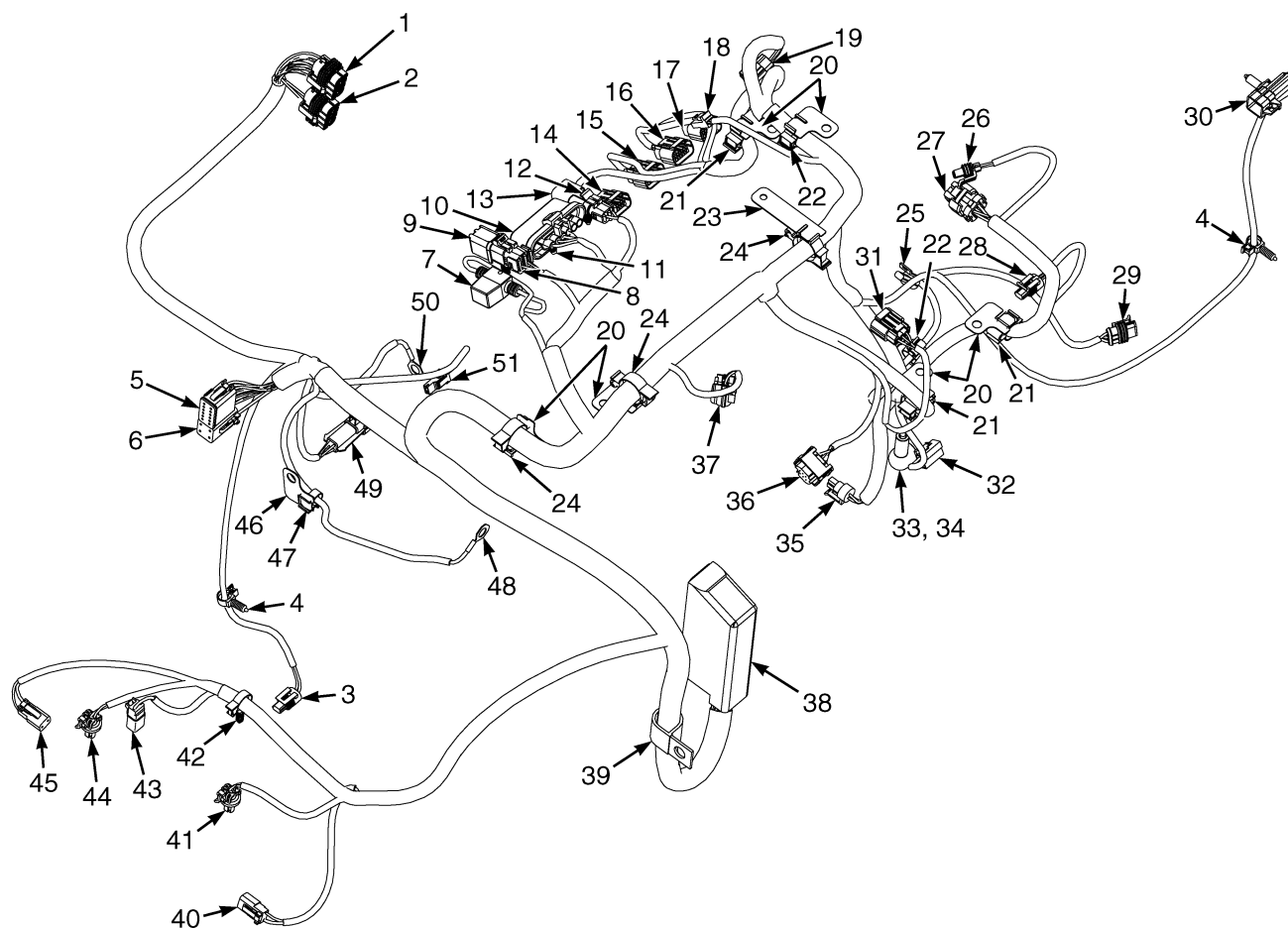
DISPLAY CLUSTER (FIGURE 6-7)

BP080952

ITEM	PART NO.	DESCRIPTION	QTY
1	582004384	Dash Display	1
2	580047049	Bezel	1
3	580050933	Label (Blank)	1
4	580047200	Screw	17
5	580047714	Capscrew	4
6	582004373	Label (Overlay RH Display Cluster)	1
7	582004374	Label (RH Display Cluster)	1
8	580047049	Bezel	1
9	580039846	Cover (Display Lever)	1
10	580037904	Ignition Switch (Without Keys)	1
11	580047200	Screw	3
12	504240712	Key Set	1
13	582005136	Lever (Detent Forward and Reverse)	1
14	.....	Steering Wheel (☞ P22032 [Page 9-2]).....	1

[illegible]

WIRE HARNESS (FIGURE 6-8)
MAZDA 2.0L LPG — POWERTRAIN



BP080950



WIRE HARNESS
MAZDA 2.0L LPG – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
	582005468		
	582015158	Wire Harness	1
1	.....	Connector Assembly (PDM 1)	1
1	582002867	Connector	1
1	504288733	Terminal	5
1	580034658	Terminal	3
1	580023845	Seal	4
1	505968505	Seal	4
1	580034509	Lock (Secondary Lock)	1
2	.....	Connector Assembly (PDM 2)	1
2	582002869	Connector	1
2	504288730	Seal	6
2	504288733	Terminal	2
2	580023845	Seal	2
2	580034509	Lock (Secondary Lock)	1
3	.....	Connector Assembly (Transmission Temperature)	1
3	582003174	Connector	1
3	504288741	Terminal	2
4	580030876	Clip	1
5	.....	Connector Assembly (Chassis Harness 1)	1
5	580022859	Connector (12-Way)	1
5	505968568	Terminal (Socket)	12
5	580026813	Connector (Secondary Lock)	1
6	.....	Connector Assembly (Chassis Harness 2)	1
6	580040820	Connector	1
6	505968566	Plug	2
6	580050627	Terminal	2
6	580040821	Connector (Secondary Lock)	1
7	.....	Connector Assembly (Max Fuse)	1
7	582002667	Connector (Fuse Holder)	1
7	580080025	Terminal	2
7	520044819	Fuse Connector	2
8	.....	Connector Assembly (Diagnostic)	1
8	520037898	Connector	1
8	580080026	Terminal	2
9	580044131	Connector (Cap)	1
10	.....	Cap	1
11	.....	Connector Assembly (Fuse Holder)	1
11	504288731	Connector	1
11	504288733	Terminal	4
11	580022121	Seal	4
11	504288732	Lock (Secondary Lock)	1
12	.....	Connector Assembly (ECU Test Port)	1
12	580012323	Connector	1
12	580028333	Terminal	2
12	580022121	Seal	2
13	580012324	Connector (Cap)	1
14	.....	Connector Assembly (Coil 3)	1
15	.....	Connector Assembly (Coil 1)	1
16	.....	Connector Assembly (Coil 2)	1

WIRE HARNESS
MAZDA 2.0L LPG – POWERTRAIN

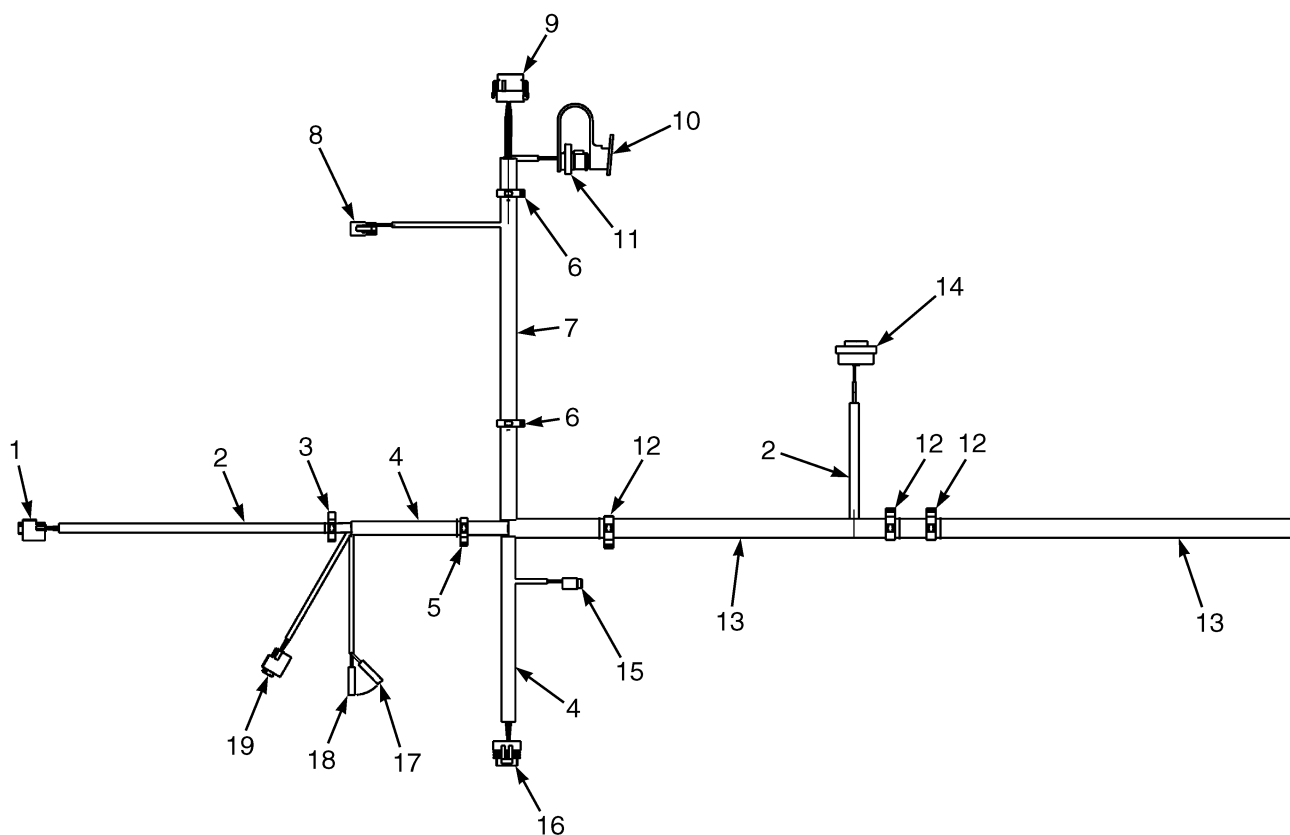
ITEM	PART NO.	DESCRIPTION	QTY
17	.....	Connector Assembly (Coil 4)	1
18	.....	Connector Assembly	1
19	.....	Connector Assembly (Cam Sensor)	1
20	580039282	Clip	7
21	580039252	Clip	3
22	580039251	Clip	2
23	580048719	Clip	1
24	580039254	Clip	3
25	.....	Connector Assembly (Engine Coolant Temperature)	1
25	504288740	Connector	1
25	580039158	Terminal	2
26	.....	Connector Assembly (LP Lockoff)	1
26	580041518	Connector	1
26	520045804	Terminal	2
26	520045805	Seal	2
27	.....	Connector Assembly (ERP Interface)	1
27	580075365	Connector	1
27	520202601	Connector	4
28	.....	Connector Assembly (LP Temperature)	1
28	580096539	Electrical Connector	1
28	504288741	Terminal	2
29	.....	Connector Assembly (LPG Low Pressure)	1
29	520045074	Plug	1
29	520045069	Terminal	1
29	278131700	Pin Terminal	2
29	580040456	Wire Seal	2
30	.....	Connector Assembly	1
30	580025799	Housing	1
30	580080031	Terminal (Gold)	4
30	580026649	Wire Seal	4
31	.....	Connector Assembly (Map Sensor)	1
31	580049522	Connector Body	1
32	.....	Connector Assembly (Alternator)	1
32	505968511	Connector Body	1
32	505966522	Terminal	2
33	580034357	Boot	1
34	520045874	E-Ring	1
35	.....	Connector Assembly (Oil Pressure)	1
35	504288749	Connector	1
35	580039158	Terminal	3
36	.....	Connector Assembly (Bosch Throttle)	1
36	580056679	Connector Body	1
36	580082329	Terminal	6
36	580039602	Seal	6
37	.....	Connector Assembly (Intake Air Temperature)	1
37	580022997	Connector Body	1
37	580038303	Terminal	2
37	580023586	Wire Seal	2
38	.....	Connector Assembly (ECU Connector)	1
38	580080032	Terminal (Gold)	56



WIRE HARNESS
MAZDA 2.0L LPG – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
39	580024321	Clamp	1
40	.....	Connector Assembly (Forward Clutch)	1
40	580021087	Connector (2 Way)	1
40	505968568	Terminal (Socket)	2
40	580021088	Connector (Secondary Lock)	1
41	.....	Connector Assembly (Forward Pressure)	1
41	580063697	Connector	1
41	580044852	Terminal (Socket)	3
41	580044854	Seal	3
41	580063751	Connector (Secondary Lock)	1
42	580030878	Clip	1
43	.....	Connector Assembly (Transmission Enable)	1
43	505968568	Terminal (Socket)	2
43	580021088	Connector (Secondary Lock)	1
43	580021087	Connector (2 Way)	1
44	.....	Connector Assembly (Reverse Pressure)	1
44	580063697	Connector	1
44	580044852	Terminal (Socket)	3
44	580044854	Seal	3
44	580063751	Connector (Secondary Lock)	1
45	.....	Connector Assembly (Reverse Clutch)	1
45	580021087	Connector (2 Way)	1
45	505968568	Terminal (Socket)	2
45	580021088	Connector (Secondary Lock)	1
46	580048721	Clip	1
47	580039250	Clip	1
48	580024032	Ring Terminal	1
49	.....	Connector Assembly	1
49	580025799	Housing	1
49	580080031	Terminal (Gold)	4
49	580026649	Wire Seal	4
50	580024032	Ring Terminal	1
51	.....	Connector Assembly (Starter)	1
51	580055342	Connector	1
51	580055343	Terminal	1

WIRE HARNESS (FIGURE 6-9)
RH CHASSIS — SHEET 1 OF 2 (→ S/N A974V01949J)



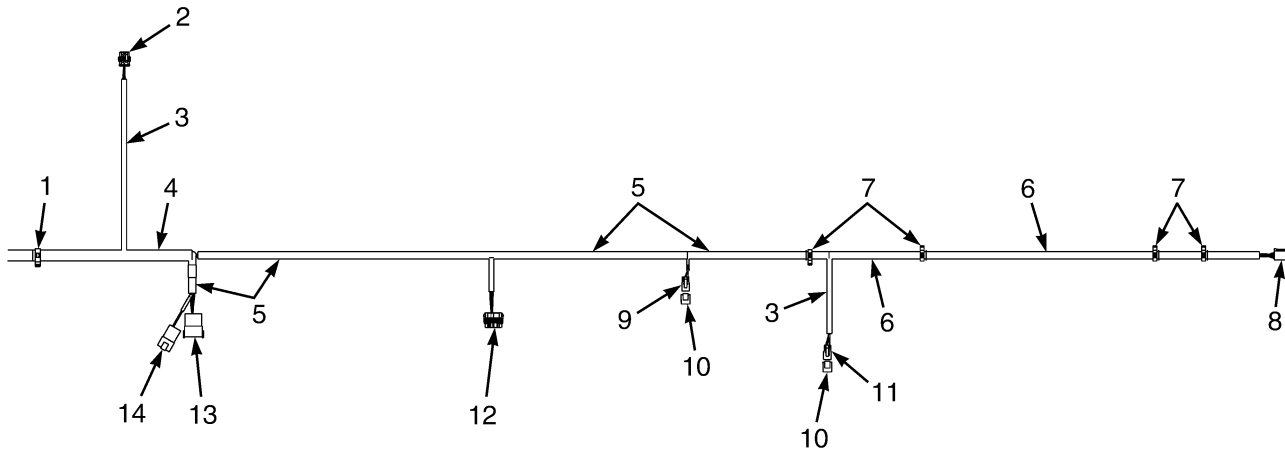
BP080993



WIRE HARNESS
RH CHASSIS – SHEET 1 OF 2 (→ S/N A974V01949J)

ITEM	PART NO.	DESCRIPTION	QTY
	582003496	Wire Harness	1
1	.....	Connector Assembly (Brake Pedal)	1
1	580094544	Connector	1
1	580094546	Terminal	3
2	580044908	Conduit	AR
3	580025560	Clip	1
4	520038855	Conduit	AR
5	580025559	Clip	1
6	580026809	Clip	2
7	910065119	Conduit	AR
8	.....	Connector Assembly (Horn Button)	1
8	580021087	Connector (2 Way)	1
8	505968568	Terminal (Socket)	2
8	580021088	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Display)	1
9	580036981	Connector	1
9	580039513	Terminal	9
9	580019119	Plug	3
9	580036986	Connector (Secondary Lock)	1
10	580051704	Dust Cap	1
10	580011639	Lubricant	AR
11	.....	Connector Assembly (Diagnostic)	1
11	580051703	Connector	1
11	505968568	Terminal (Socket)	3
11	580039194	Connector (Secondary Lock) (Secondary Lock)	1
12	580039799	Clip	3
13	520045672	Conduit	AR
14	.....	Connector Assembly (Buzzer)	1
14	580086232	Buzzer	1
15	.....	Connector Assembly (Hydraulic Lockout Solenoid 1)	1
15	580019245	Connector	1
15	580039513	Terminal	2
15	580019246	Connector (Secondary Lock)	1
16	.....	Connector Assembly (Accelerator Pedal Sensor)	1
16	580038661	Connector	1
16	580039158	Terminal	6
17	.....	Connector Assembly (Brake Fluid)	1
17	952405902	Terminal	1
17	952408901	Sleeve	1
18	.....	Connector Assembly (Brake Fluid)	1
18	952405902	Terminal	1
18	952408901	Sleeve	1
19	.....	Connector Assembly (Park Brake)	1
19	580094544	Connector	1
19	580094546	Terminal	3

WIRE HARNESS (FIGURE 6-10)
RH CHASSIS — SHEET 2 OF 2 (→ S/N A974V01949J)



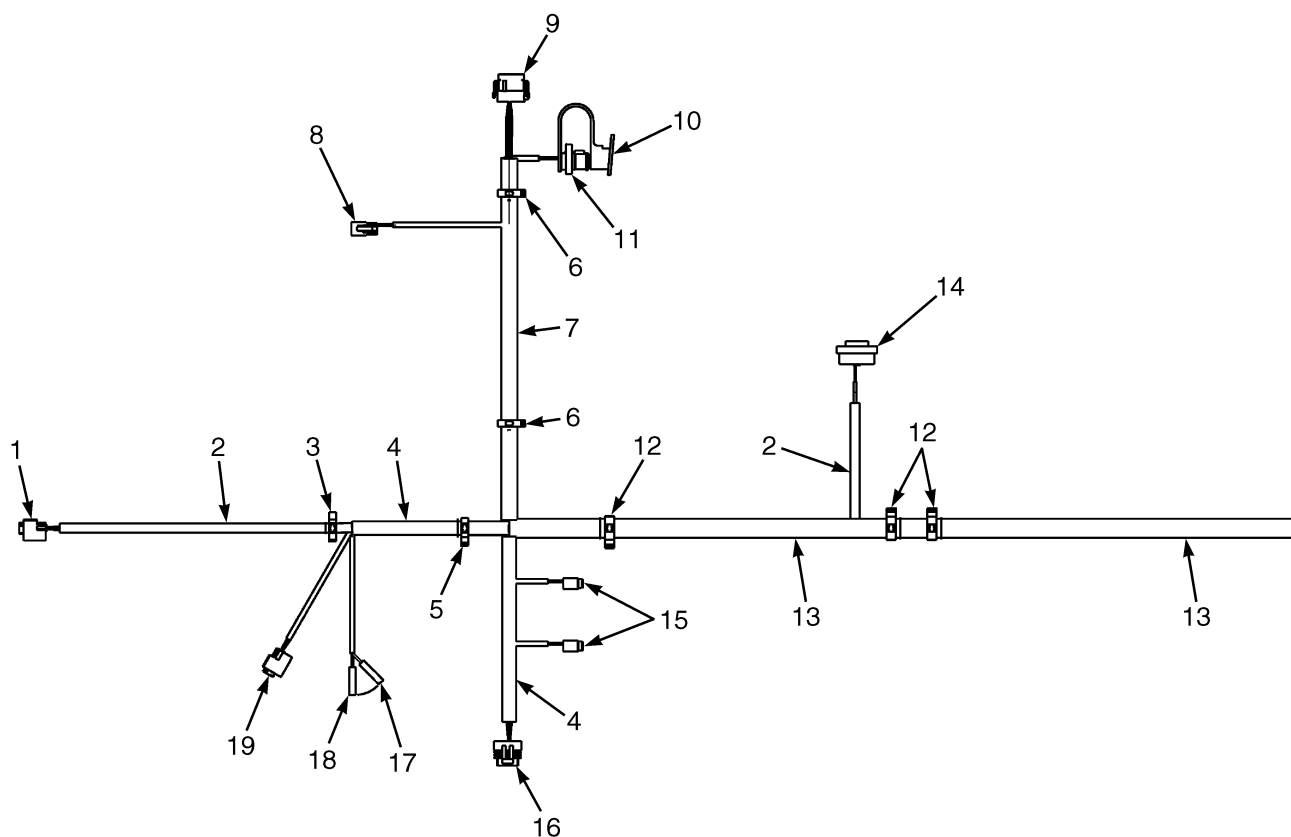
BP080994

ITEM	PART NO.	DESCRIPTION	QTY
	582003496	Wire Harness	1
1	580039799	Clip	1
2	.....	Connector Assembly (Horn)	1
2	580023924	Connector	1
2	520045804	Terminal	3
2	520045805	Seal	3
2	580034658	Terminal	1
2	504288730	Seal	1
3	580044908	Conduit	AR
4	520045672	Conduit	AR
5	520038855	Conduit	AR
6	580094353	Conduit	AR
7	580030878	Clip	4
8	.....	Connector Assembly (To Seat Harness)	1
8	580039499	Connector	1
8	580039513	Terminal	4
8	580019119	Plug	2
8	580039500	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Backup Alarm)	1
9	580021087	Connector (2 Way)	1
9	505968568	Terminal (Socket)	2
9	580021088	Connector (Secondary Lock)	1
10	580071066	Connector (Endcap)	2
11	.....	Connector Assembly (Alternate Horn Button)	1
11	580021087	Connector (2 Way)	1
11	505968568	Terminal (Socket)	2



ITEM	PART NO.	DESCRIPTION	QTY
11	580021088	Connector (Secondary Lock)	1
12	.....	Connector Assembly (PDM)	1
12	582002868	Connector	1
12	504288733	Terminal	6
12	505968505	Seal	6
12	580023845	Seal	1
12	580034509	Lock (Secondary Lock)	1
13	.....	Connector Assembly (To Engine Harness)	1
13	580026816	Connector	1
13	505968514	Terminal (Pin)	12
14	.....	Connector Assembly (To Engine Harness)	1
14	580040822	Connector	1
14	505968566	Plug	2
14	150121835	Terminal	2
14	580040823	Connector (Secondary Lock)	1
14	505972589	Connector (Secondary Lock)	1

WIRE HARNESS (FIGURE 6-11)
RH CHASSIS — SHEET 1 OF 2 (S/N A974V01950J →)



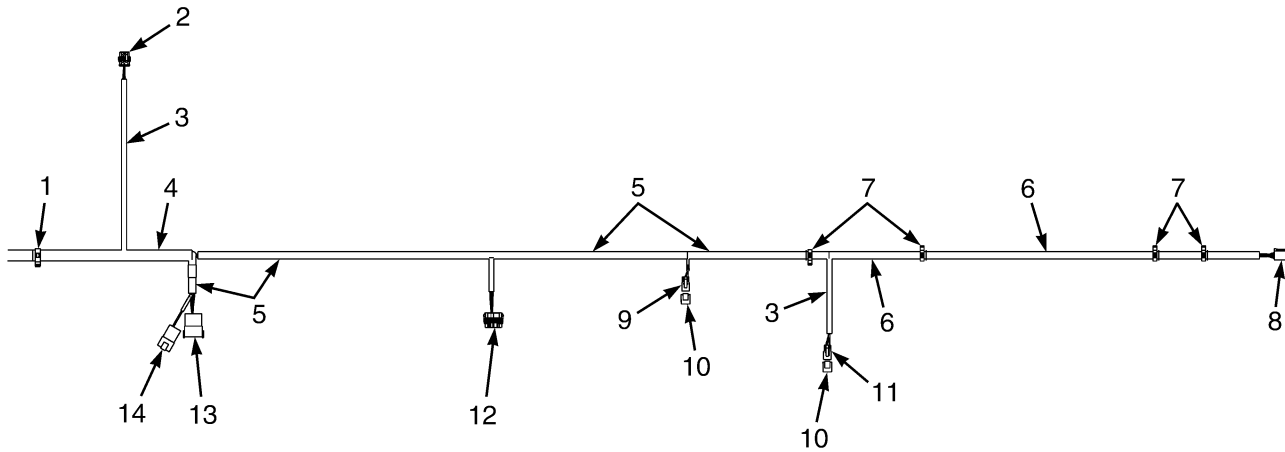
BP081147



WIRE HARNESS
RH CHASSIS – SHEET 1 OF 2 (S/N A974V01950J →)

ITEM	PART NO.	DESCRIPTION	QTY
	582014491	Wire Harness	1
1	.....	Connector Assembly (Brake Pedal)	1
1	580094544	Connector	1
1	580094546	Terminal	3
2	580044908	Conduit	AR
3	580025560	Clip	1
4	520038855	Conduit	AR
5	580025559	Clip	1
6	580026809	Clip	2
7	910065119	Conduit	AR
8	.....	Connector Assembly (Horn Button)	1
8	580021087	Connector (2 Way)	1
8	505968568	Terminal (Socket)	2
8	580021088	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Display)	1
9	580036981	Connector	1
9	580039513	Terminal	9
9	580019119	Plug	3
9	580036986	Connector (Secondary Lock)	1
10	580051704	Dust Cap	1
10	580011639	Lubricant	AR
11	.....	Connector Assembly (Diagnostic)	1
11	580051703	Connector	1
11	505968568	Terminal (Socket)	3
11	580039194	Connector (Secondary Lock)	1
12	580039799	Clip	3
13	520045672	Conduit	AR
14	.....	Connector Assembly (Buzzer)	1
14	580086232	Buzzer	1
15	.....	Connector Assembly (Hydraulic Lockout Solenoid 1 and 2)	2
15	580019245	Connector	2
15	580039513	Terminal	4
15	580019246	Connector (Secondary Lock)	2
16	.....	Connector Assembly (Accelerator Pedal Sensor)	1
16	580038661	Connector	1
16	580039158	Terminal	6
17	.....	Connector Assembly (Brake Fluid)	1
17	952405902	Terminal	1
17	952408901	Sleeve	1
18	.....	Connector Assembly (Brake Fluid)	1
18	952405902	Terminal	1
18	952408901	Sleeve	1
19	.....	Connector Assembly (Park Brake)	1
19	580094544	Connector	1
19	580094546	Terminal	3

WIRE HARNESS (FIGURE 6-12)
RH CHASSIS — SHEET 2 OF 2 (S/N A974V01950J →)



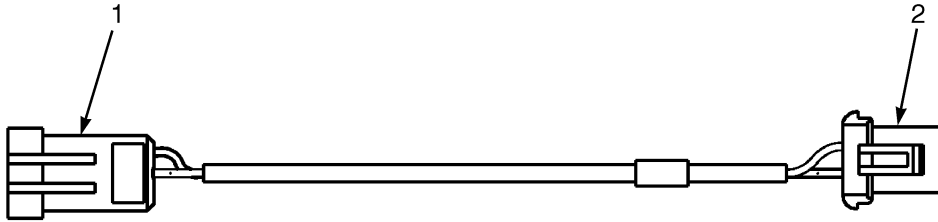
BP080994

ITEM	PART NO.	DESCRIPTION	QTY
	582014491	Wire Harness	1
1	580039799	Clip	1
2	.....	Connector Assembly (Horn)	1
2	580023924	Connector	1
2	520045804	Terminal	3
2	520045805	Seal	3
2	580034658	Terminal	1
2	504288730	Seal	1
3	580044908	Conduit	AR
4	520045672	Conduit	AR
5	520038855	Conduit	AR
6	580094353	Conduit	AR
7	580030878	Clip	4
8	.....	Connector Assembly (To Seat Harness)	1
8	580039499	Connector	1
8	580039513	Terminal	4
8	580019119	Plug	2
8	580039500	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Backup Alarm)	1
9	580021087	Connector (2 Way)	1
9	505968568	Terminal (Socket)	2
9	580021088	Connector (Secondary Lock)	1
10	580071066	Connector (Endcap)	2
11	.....	Connector Assembly (Alternate Horn Button)	1
11	580021087	Connector (2 Way)	1
11	505968568	Terminal (Socket)	2



ITEM	PART NO.	DESCRIPTION	QTY
11	580021088	Connector (Secondary Lock)	1
12	.....	Connector Assembly (PDM)	1
12	582002868	Connector	1
12	504288733	Terminal	6
12	505968505	Seal	6
12	580023845	Seal	1
12	580034509	Lock (Secondary Lock)	1
13	.....	Connector Assembly (To Engine Harness)	1
13	580026816	Connector	1
13	505968514	Terminal (Pin)	12
14	.....	Connector Assembly (To Engine Harness)	1
14	580040822	Connector	1
14	505968566	Plug	2
14	150121835	Terminal	2
14	580040823	Connector (Secondary Lock)	1
14	505972589	Connector (Secondary Lock)	1

WIRE HARNESS ADAPTER (FIGURE 6-13)
LOW FUEL PRESSURE

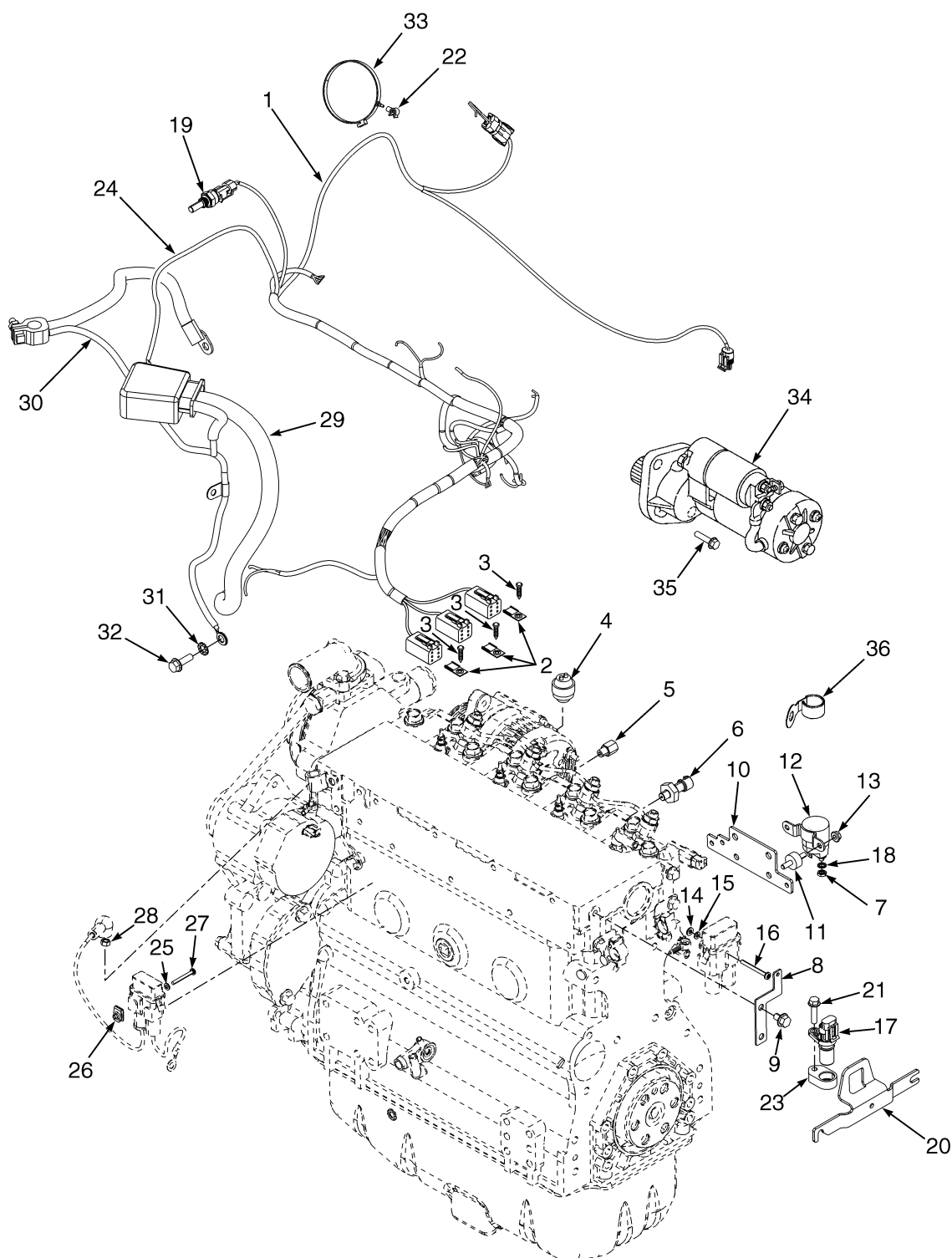


HP082028

ITEM	PART NO.	DESCRIPTION	QTY
	582002989	Wire Harness	1
1	.....	Connector Assembly (To LH Chassis Harness)	1
1	272478100	Connector	1
1	278131700	Pin Terminal	2
1	580050847	Plug	1
1	580040456	Wire Seal	2
2	.....	Connector Assembly (Low LPG Switch)	1
2	520045074	Plug	1
2	520045069	Terminal	1
2	504288733	Terminal	2
2	580023845	Seal	2

[illegible]

ENGINE ELECTRICAL SYSTEM (FIGURE 6-14)
YANMAR 2.6L DIESEL



HP081653



ENGINE ELECTRICAL SYSTEM

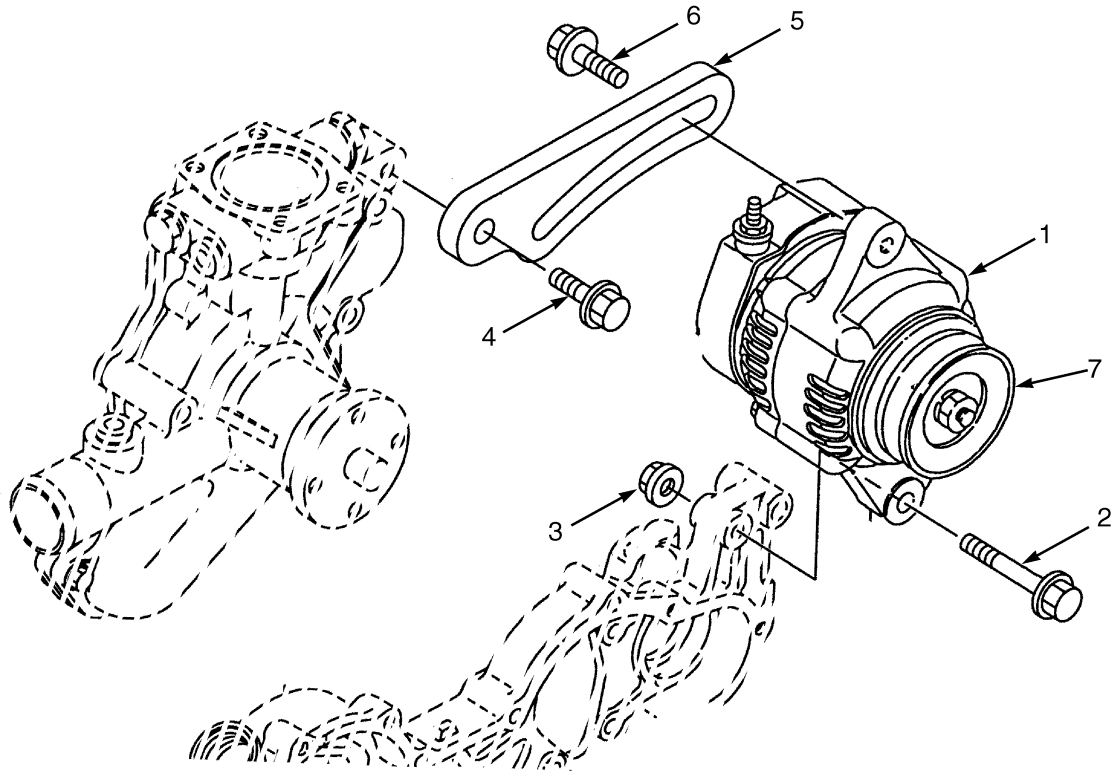
YANMAR 2.6L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	582015034	Wire Harness (Powertrain) (☞P23207 [Page 6-32]).....	1
2	580026812	Clip	3
3	580056613	Fastener	3
4	580037160	Sensor (Air Flow Restriction)	1
5	580056906	Adapter	1
6	580051890	Pressure Transducer Sensor (Oil Pressure)	1
7	580049289	Nut	2
8	580056295	Bracket	1
9	580037180	Capscrew	2
10	580057553	Bracket	1
11	580043584	Rubber Mount	2
12	580001621	Relay	1
13	580004321		
	580047919	Nut	2
14	940004902	Washer	1
15	449022022	Lockwasher	1
16	931108909	Screw	1
17	580045059	Sensor (Input Speed, TISS) (RPM Speed)	1
17	940600907	Washer	2
19	580036023	Temperature Sensor	1
20	580060376	Bracket	1
21	580049840	Capscrew	1
22	580042330	Clamp (Swivel)	1
23	580059714	Bracket	1
24	580045401	Wire Harness (Alternator) (☞P23208 [Page 6-36]).....	1
25	940004903	Washer	1
26	580040850	Nut	1
27	931109909	Screw	1
28	449015002	Nut	1
29	580091916	Battery Cable (Positive)	1
29	580063616	Terminal	1
29	580063617	Terminal	1
29	580006553	E-Ring	1
29	580049075	Boot	1
29	580040374	Boot	1
29	580073519	Battery Cable (Red)	AR
30	580050645	Battery Cable (Negative)	1
30	580063618	Terminal	1
30	580063617	Terminal	1
30	580067708	Terminal	1
30	580050293	E-Ring	1
30	505970529	Clamp	1
30	580006553	E-Ring	1
30	580076450	Wire-Bulk (Black)	AR
31	940600908	Washer	1
32	580037180	Capscrew	2
33	580041557	Clamp	1
34	580062748	Starter Assembly	1
34	580062750	Ball Bearing	1
34	580062751	Ball Bearing	1

**ENGINE ELECTRICAL SYSTEM
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
34	580062753	Screw	4
34	580062754	Brush	2
34	580062756	Brush Spring	4
34	580062763	Pinion	1
34	580062770	Housing	1
35	580056527	Capscrew	2
36	580062747	Clamp	2

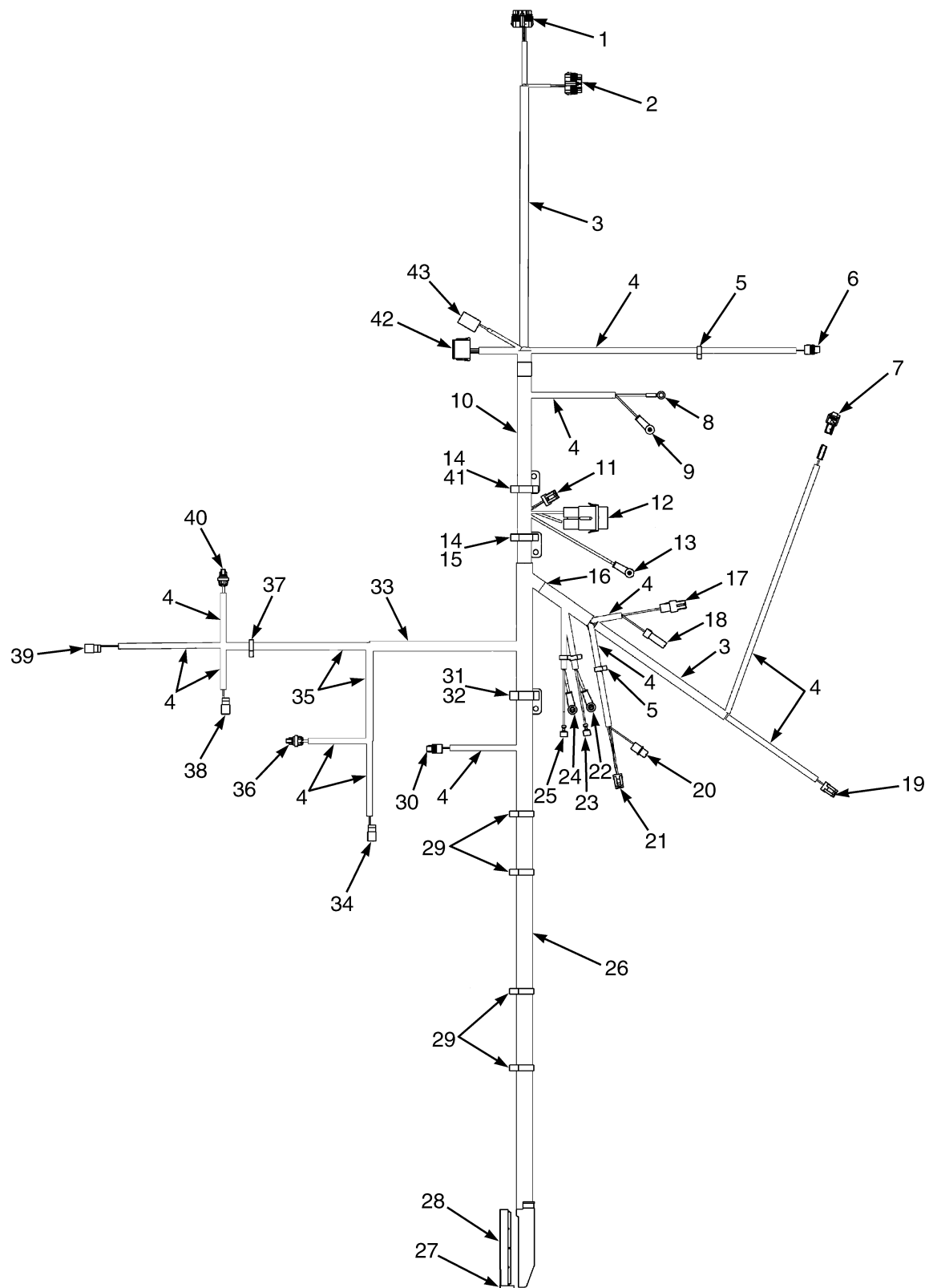
ALTERNATOR AND MOUNTING (FIGURE 6-15)
YANMAR 2.6L DIESEL



BP080337

ITEM	PART NO.	DESCRIPTION	QTY
1	580062772	Alternator	1
1	580062776	Ball Bearing	1
1	580062777	Plate	1
1	580062778	Screw	4
1	580062779	Stud	2
1	580062781	Ball Bearing	1
1	580062782	Cover	1
2	580062795	Bolt	1
3	580063389	Nut	1
4	580062798	Bolt	1
5	580062796	Bracket	1
6	580062797	Bolt	1
7	580062773	Pulley	1

WIRE HARNESS (FIGURE 6-16)
YANMAR 2.6L DIESEL — POWERTRAIN



BP081124



WIRE HARNESS
YANMAR 2.6L DIESEL – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
	582015034	Wire Harness	1
1	.....	Connector Assembly (Power Distribution Module)	1
1	582002867	Connector	1
1	580034509	Lock	1
1	504288733	Terminal	6
1	580034658	Terminal	2
1	580023845	Seal	4
1	505968505	Seal	4
2	.....	Connector Assembly (Power Distribution Module)	1
2	582002869	Connector	1
2	580034509	Lock	1
2	504288733	Terminal	2
2	580034658	Terminal	1
2	504288730	Seal	5
2	580023845	Seal	2
2	505968505	Seal	1
3	520038855	Conduit	AR
4	910065119	Conduit	AR
5	580030876	Clip	4
6	.....	Connector Assembly (Transmission Temperature)	1
6	582003174	Connector	1
6	504288741	Terminal	2
7	.....	Connector Assembly (Alternator)	1
7	580063619	Connector Body	1
7	580051160	Terminal	2
8	.....	Connector Assembly (Starter Stud)	1
8	.....	149611	1
9	.....	Connector Assembly (Starter Solenoid)	1
9	580048818	Ring Terminal	1
9	580006543	Boot	1
10	505970586	Conduit	AR
11	.....	Connector Assembly (Engine RPM)	1
11	580043885	Connector	1
11	504288741	Terminal	3
12	.....	Connector Assembly (60 Amp Fuse)	1
12	580010738	Connector Body	1
12	580014386	Fuse (60 Amp)	1
12	580010739	Cover (With Seal)	1
12	520044820	Fuse Connector	2
12	520044819	Fuse Connector	2
13	.....	Connector Assembly (Glow Plug)	1
13	580054861	E Ftg Ring Term #8	1
13	580006543	Boot	1
14	580039254	Clip	2
15	580039278	Clip	2
16	520045672	Conduit	AR
17	.....	Connector Assembly (Fuel Shut Off)	1
17	580057552	Connector	1
17	913213402	Connector	1
17	580056632	Seal	1

WIRE HARNESS
YANMAR 2.6L DIESEL – POWERTRAIN

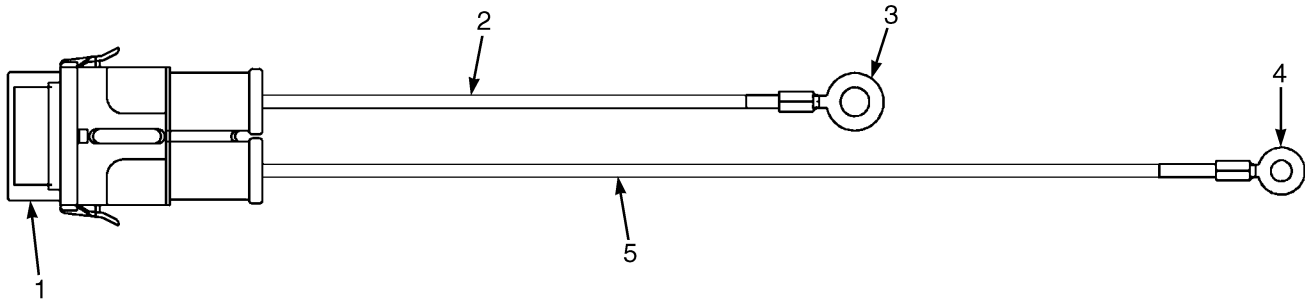
ITEM	PART NO.	DESCRIPTION	QTY
18	.....	Connector Assembly (Cold Start)	1
18	580056633	Connector	1
18	913213401	Connector	1
18	580056632	Seal	1
19	.....	Connector Assembly (Water Temperature)	1
19	504288740	Connector	1
19	504288741	Terminal	2
20	.....	Connector Assembly (Fuel and Water Separator)	1
20	580063620	Connector Body	1
20	580051160	Terminal	2
21	.....	Connector Assembly (Low Engine Oil)	1
21	504288749	Connector	1
21	580039158	Terminal	3
22	.....	Connector Assembly (Glow Plug Relay #30)	1
22	580063615	E-Ring	1
22	580039282	Clip	1
23	.....	Connector Assembly (Glow Plug Relay #86)	1
23	580034540	Connector Body	1
24	.....	Connector Assembly (Glow Plug Relay #87)	1
24	580063615	E-Ring	1
24	580039282	Clip	1
25	.....	Connector Assembly (Glow Plug Relay #85)	1
25	580034540	Connector Body	1
26	580041641	Conduit	AR
27	582011406	Connector Lock	1
28	.....	Connector Assembly (Engine Control Unit)	1
28	580075380	Connector	1
28	582011407	Strain Relief	1
28	580064826	Terminal	30
28	582010203	Terminal	11
28	582011410	Plug	49
29	582015146	Clip	4
30	.....	Connector Assembly (Fuel Level)	1
30	580025779	Connector	1
30	504288741	Terminal	2
31	580039255	Clip	1
32	580039278	Clip	2
33	910065119	Conduit	AR
34	.....	Connector Assembly (Clutch Forward)	1
34	580021087	Connector (2 Way)	1
34	580021088	Connector	1
34	505968568	Terminal (Socket)	1
34	505968593	Terminal (Socket)	1
35	504232281	Conduit	AR
36	.....	Connector Assembly (Forward Pressure)	1
36	580063697	Connector	1
36	580063751	Connector (Secondary Lock)	1
36	580044852	Terminal (Socket)	3
36	580044854	Seal	3
37	580030878	Clip	1



WIRE HARNESS
YANMAR 2.6L DIESEL – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
38	.....	Connector Assembly (Transmission Enable)	1
38	580021087	Connector (2 Way)	1
38	580021088	Connector	1
38	505968568	Terminal (Socket)	1
38	505968593	Terminal (Socket)	1
39	.....	Connector Assembly (Clutch Reverse)	1
39	580021087	Connector (2 Way)	1
39	580021088	Connector	1
39	505968568	Terminal (Socket)	1
39	505968593	Terminal (Socket)	1
40	.....	Connector Assembly (Reverse Pressure)	1
40	580063697	Connector	1
40	580063751	Connector (Secondary Lock)	1
40	580044852	Terminal (Socket)	3
40	580044854	Seal	3
41	580039282	Clip	1
42	.....	Connector Assembly (To Chassis Harness)	1
42	580022859	Connector (12-Way)	1
42	580026813	Connector	1
42	505968568	Terminal (Socket)	12
43	.....	Connector Assembly (To Chassis Harness)	1
43	580040820	Connector	1
43	580040821	Connector	1
43	580050627	Terminal	2
43	505968566	Plug	1

WIRE HARNESS (FIGURE 6-17) **YANMAR 2.6L DIESEL — FUSED ALTERNATOR**



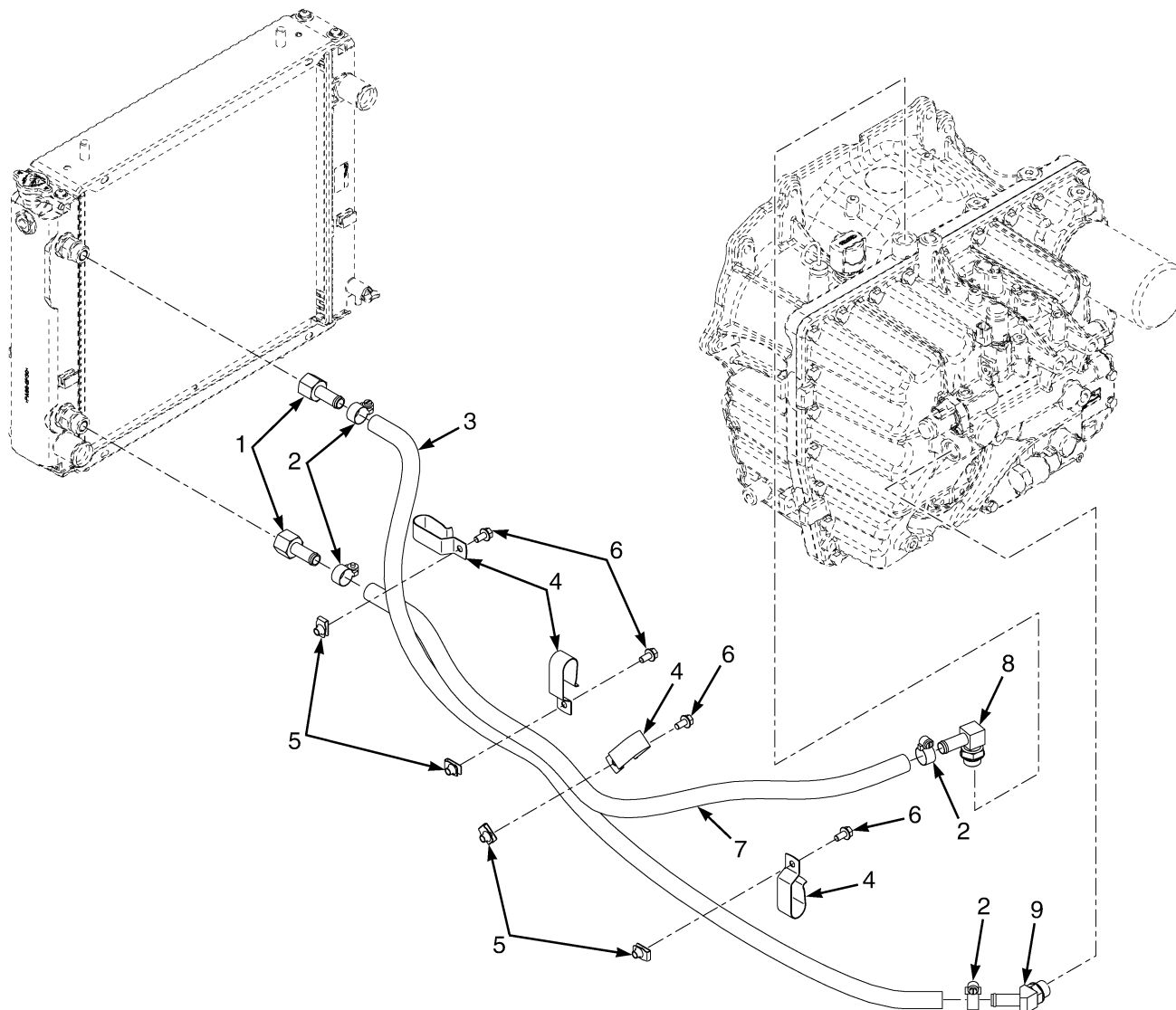
BP081125

ITEM	PART NO.	DESCRIPTION	QTY
	580045401	Wire Harness (Alternator)	1
1	.....	Connector Assembly (60 Amp Fuse)	1
1	580014386	Fuse (60 Amp)	1
1	580010739	Cover (With Seal)	1
1	580034616	Seal	2
1	580043655	Terminal	2
1	580010738	Connector Body	1
2	580069349	Cable-Bulk (FT) (Red)	AR
3	.....	Connector Assembly (Power Distribution Module)	1
3	580063614	E-Ring	1
4	.....	Connector Assembly (Alternator)	1
4	580063615	E-Ring	1
4	580052019	Boot	1
5	504232281	Conduit	AR

SECTION 7 TRANSMISSION

DESCRIPTION	PAGE
CHARGE PUMP	7-18
COUNTER/REVERSE CLUTCH	
SINGLE SPEED TRANSMISSION	7-24
INPUT/FORWARD CLUTCH	
SINGLE SPEED TRANSMISSION	7-22
STATOR SUPPORT HOUSING	7-20
TORQUE CONVERTER	7-8
TORQUE CONVERTER HOUSING AND ATTACHING PARTS	
SINGLE SPEED (→ 2/2011)	7-10
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)	7-14
TRANSMISSION COOLING	
MAZDA 2.0L LPG	7-2
YANMAR DIESEL	7-4
TRANSMISSION HOUSING AND ASSEMBLY	
SINGLE SPEED (→ 2/2011)	7-12
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)	7-16
TRANSMISSION MOUNT	
SINGLE SPEED	7-6

TRANSMISSION COOLING (FIGURE 7-1)
MAZDA 2.0L LPG



BP240177



TRANSMISSION COOLING MAZDA 2.0L LPG

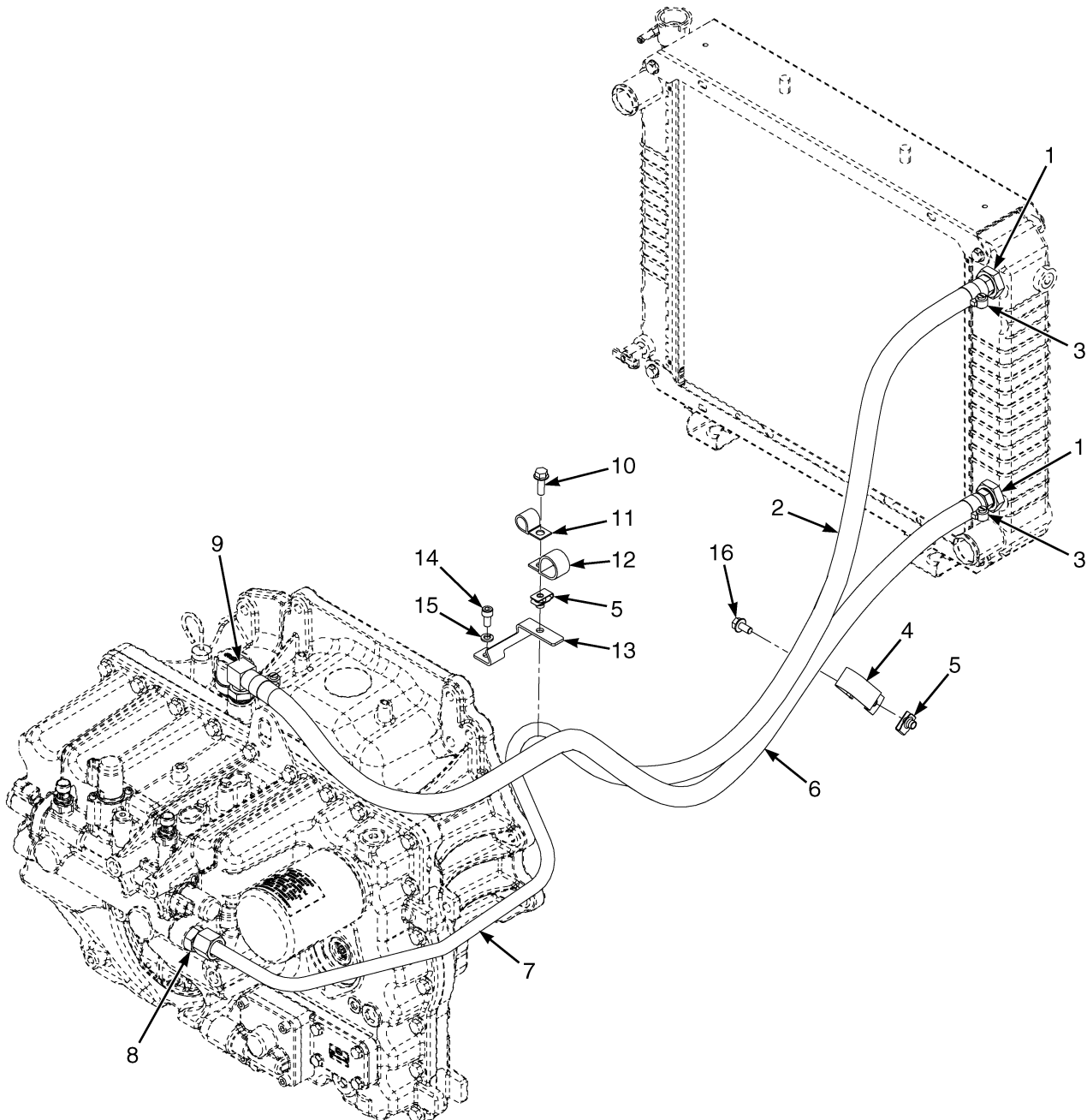
KEY:

A: Without Alternate Hose and Tube Assy

B: With Alternate Hose and Tube Assy

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	580091165	Fitting	2	..
1	580094958	Tube Assy	..	1
2	062159500	Clamp	4	4
3	580094751	Hose	1	..
3	580094952	Hose	..	1
4	580049814	Clip	4	3
5	580026621	Nut	4	3
6	580047714	Capscrew	4	3
7	580094703	Hose	1	1
8	316448036	Fitting	1	1
8	052645400	O-Ring	1	1
9	580011625	Fitting	1	1
9	052645400	O-Ring	1	1

TRANSMISSION COOLING (FIGURE 7-2)
YANMAR DIESEL



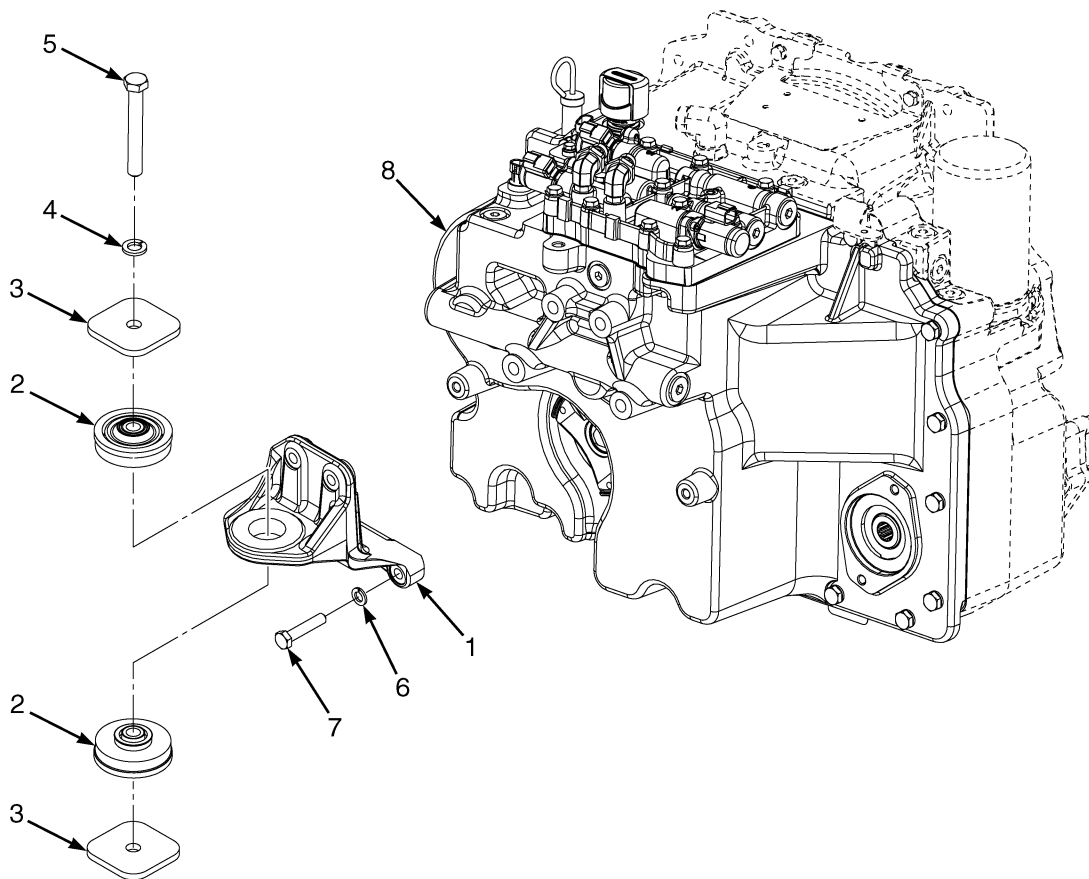
BP240199



TRANSMISSION COOLING YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	580089388	Fitting	2
1	500154908	Fitting	1
1	052645300	O-Ring	1
2	580094958	Tube Assy	1
3	062159500	Clamp	4
4	580049814	Clip	1
5	580026621	Nut	2
6	582015124	Hose	1
7	582015449	Tube Assy	1
8	580019817	Fitting	1
9	316448036	Fitting	1
10	580030966	Capscrew	1
11	505970529	Clamp	1
12	504069724	Clamp	1
13	580092518	Bracket	1
14	580022963	Capscrew	1
15	449022016	Lockwasher	1
16	580047714	Capscrew	1

TRANSMISSION MOUNT (FIGURE 7-3) SINGLE SPEED

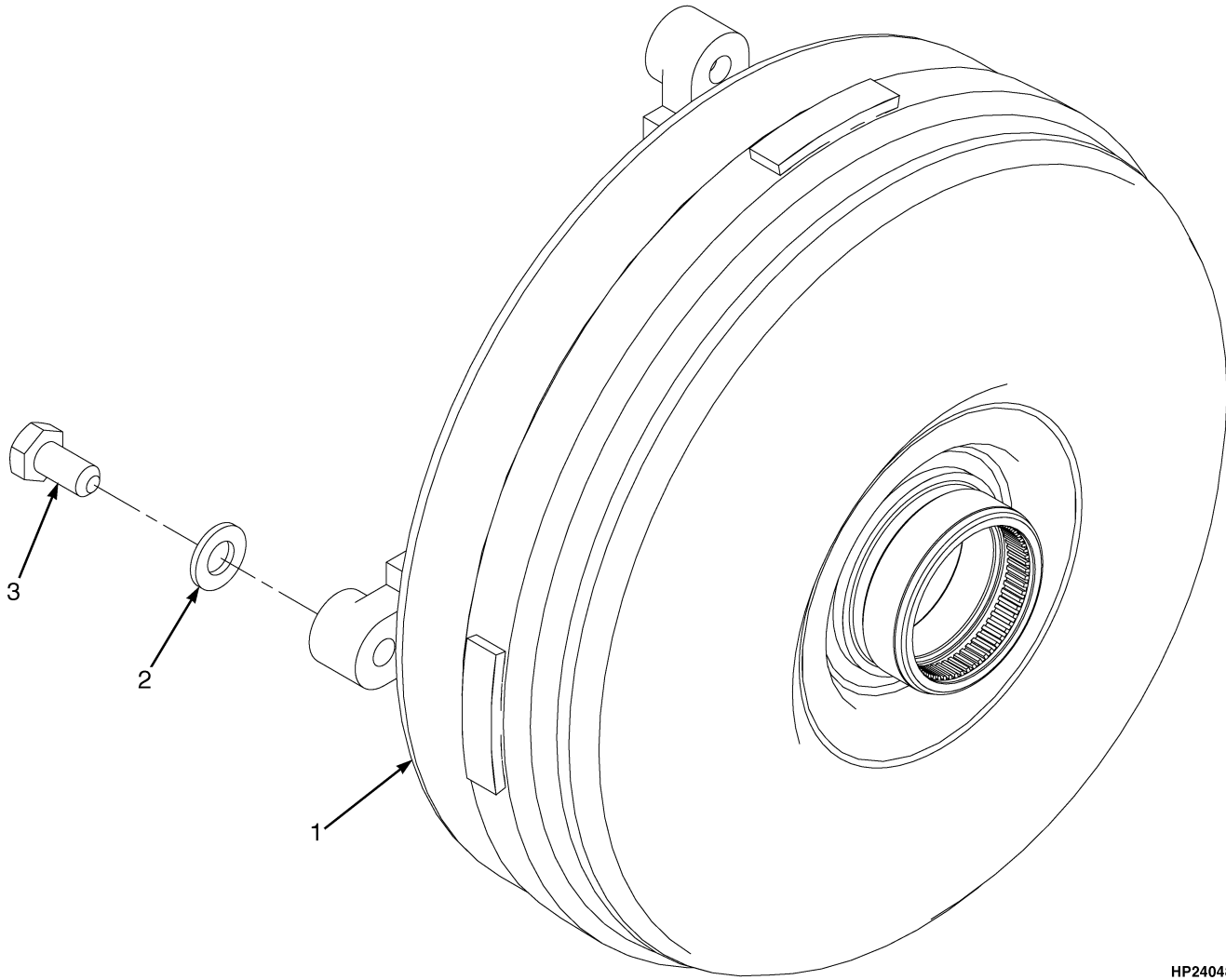


BP240180

**TRANSMISSION MOUNT
SINGLE SPEED**

ITEM	PART NO.	DESCRIPTION	QTY
1	580093693	Bracket	1
2	580051670	Isolator	2
3	449021019	Washer	2
4	449022041	Lockwasher	1
4	449021019	Washer (Alternate Part)	1
5	931017917	Capscrew	1
6	449022017	Lockwasher	4
7	449001048	Capscrew	4
8	582003678	Transmission Assy	1
	501702903	Loctite	AR

TORQUE CONVERTER (FIGURE 7-4)



HP240482

ITEM	PART NO.	DESCRIPTION	QTY
1	a 580047025	Torque Converter	1
1	b 580047026	Torque Converter	1
2	502566904	Washer	4
3	580042194	Capscrew	4
	501702901	Loctite	AR
	504226218	Lubricant	AR

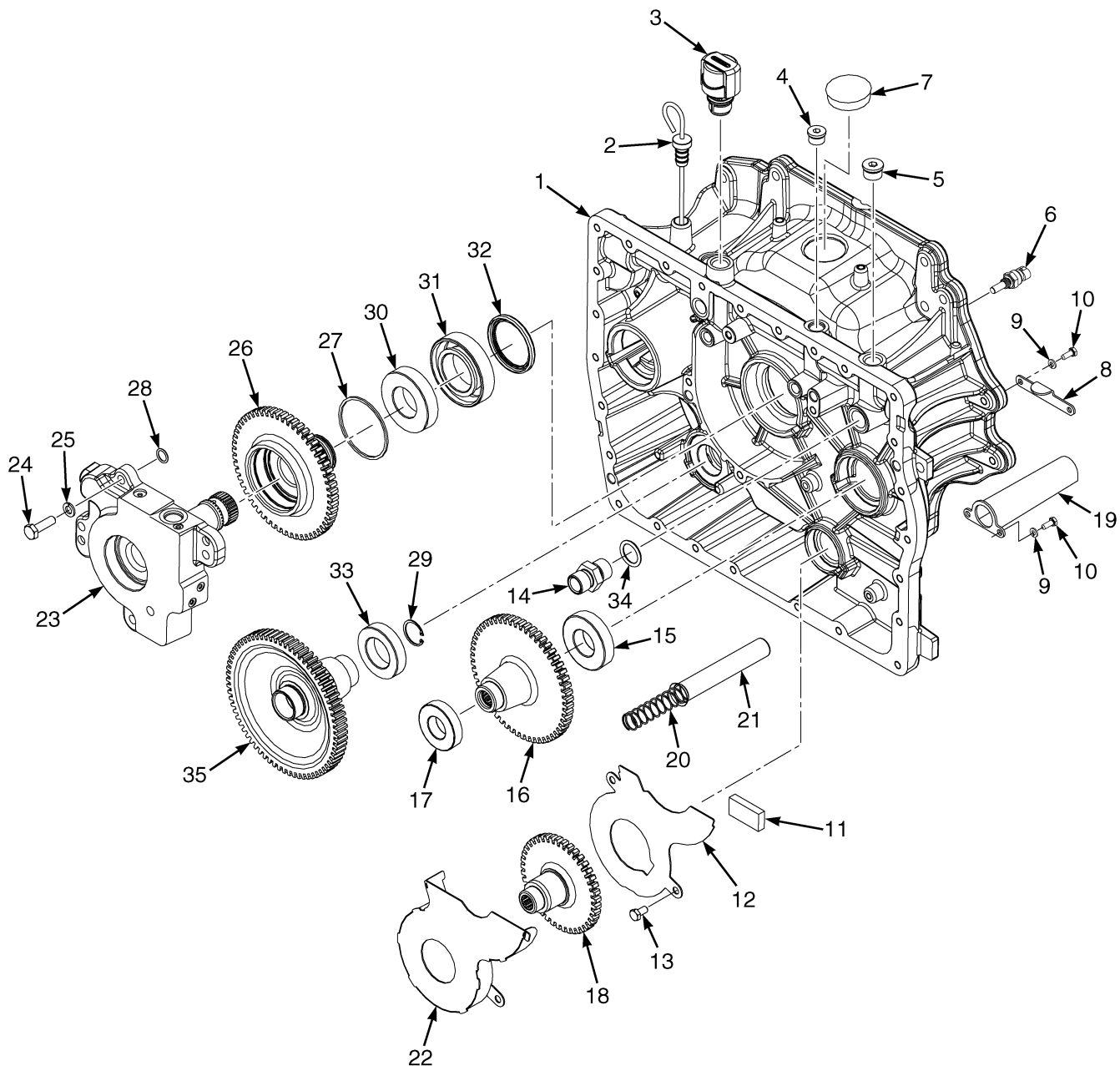
FOOTNOTES:

a Mazda Engine

b Yanmar Engine

[illegible]

TORQUE CONVERTER HOUSING AND ATTACHING PARTS (FIGURE 7-5)
SINGLE SPEED (→ 2/2011)



BP240198

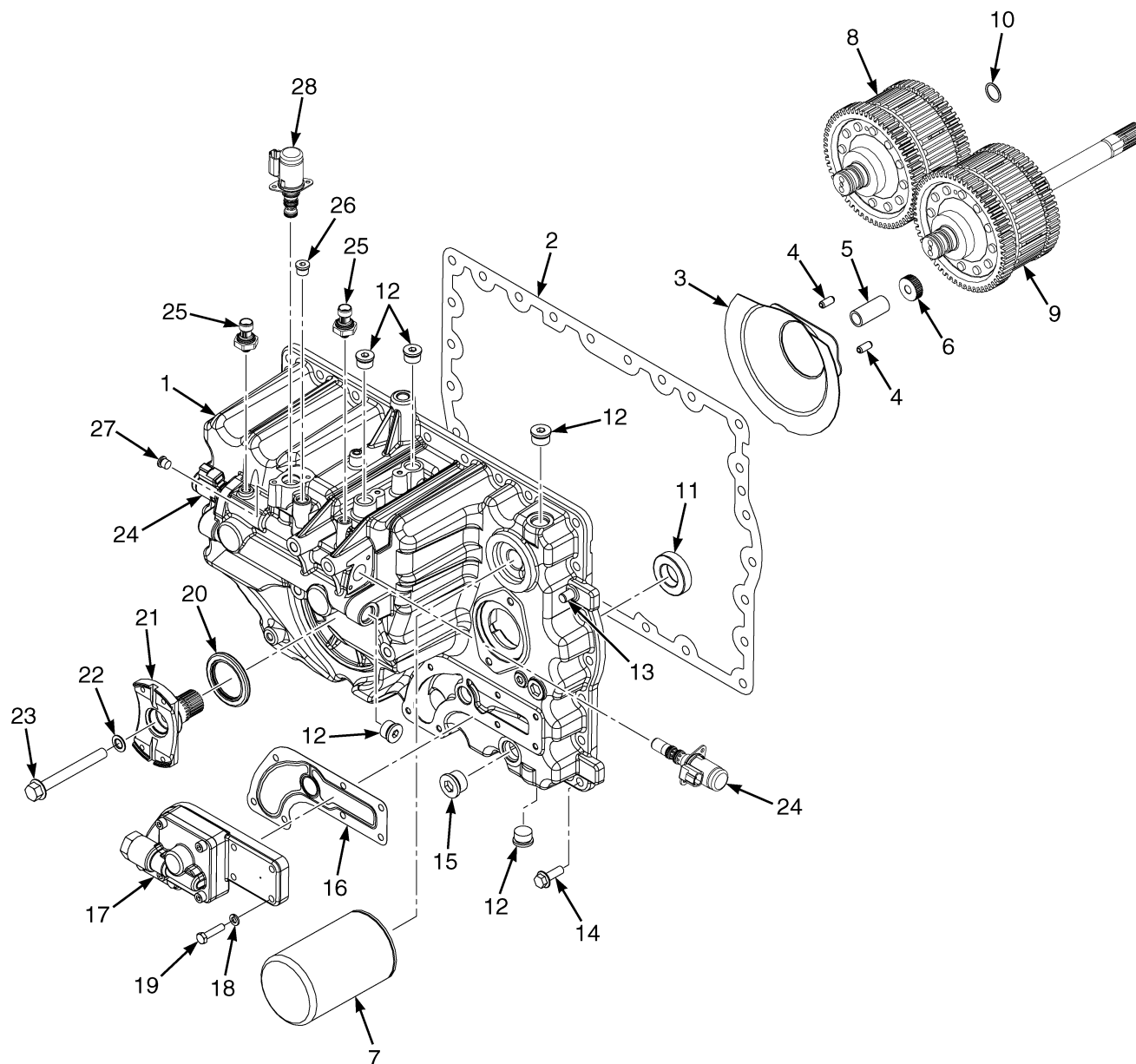


TORQUE CONVERTER HOUSING AND ATTACHING PARTS

SINGLE SPEED (→ 2/2011)

ITEM	PART NO.	DESCRIPTION	QTY
	582003678	Transmission Assy	1
1	580086989	Converter Housing	1
2	582005769	Dipstick	1
3	580073345	Breather	1
3	052645500	O-Ring	1
4	505967551	Fitting	1
5	514454800	Fitting	3
5	052645400	O-Ring	1
6	580036023	Temperature Sensor	1
7	580095332	Plug	1
8	580089865	Cover Plate (Torque Converter Bottom Housing)	1
9	449022018	Washer	3
10	449001412	Capscrew	3
11	505967598	Magnet	1
12	580087290	Cover (PTO Rear Gear)	1
13	449001415	Capscrew	2
14	580048738	Fitting	1
15	015125800	Ball Bearing	1
16	582001759	Drive Gear (Hydraulic Pump)	1
17	500505908	Bearing	1
18	582001760	Drive Gear (Charge Pump)	1
19	580094950	Cover (Suction Screen)	1
20	505967534	Screen	1
21	580090191	Spring	1
22	580089461	Cover (PTO Gears)	1
23	580087219	Housing (Stator Support) (P22409 [Page 7-20]).....	1
24	449001015	Capscrew	4
25	504057795		
	449022013	Lockwasher	4
26	582001758	Drive Gear	1
27	580045072	Sealing Ring	1
28	580046820	O-Ring	2
29	064570300	Snap Ring	1
30	031206200	Ball Bearing	2
31	580045064	Bearing	1
32	580046273	Oil Seal (Torque Converter)	1
33	500025905	Ball Bearing	1
34	580093395	O-Ring AS568A-120	1
35	580089318	Transmission Gear (Out Put)	1

TRANSMISSION HOUSING AND ASSEMBLY (FIGURE 7-6)
SINGLE SPEED (→ 2/2011)



BP240197



TRANSMISSION HOUSING AND ASSEMBLY

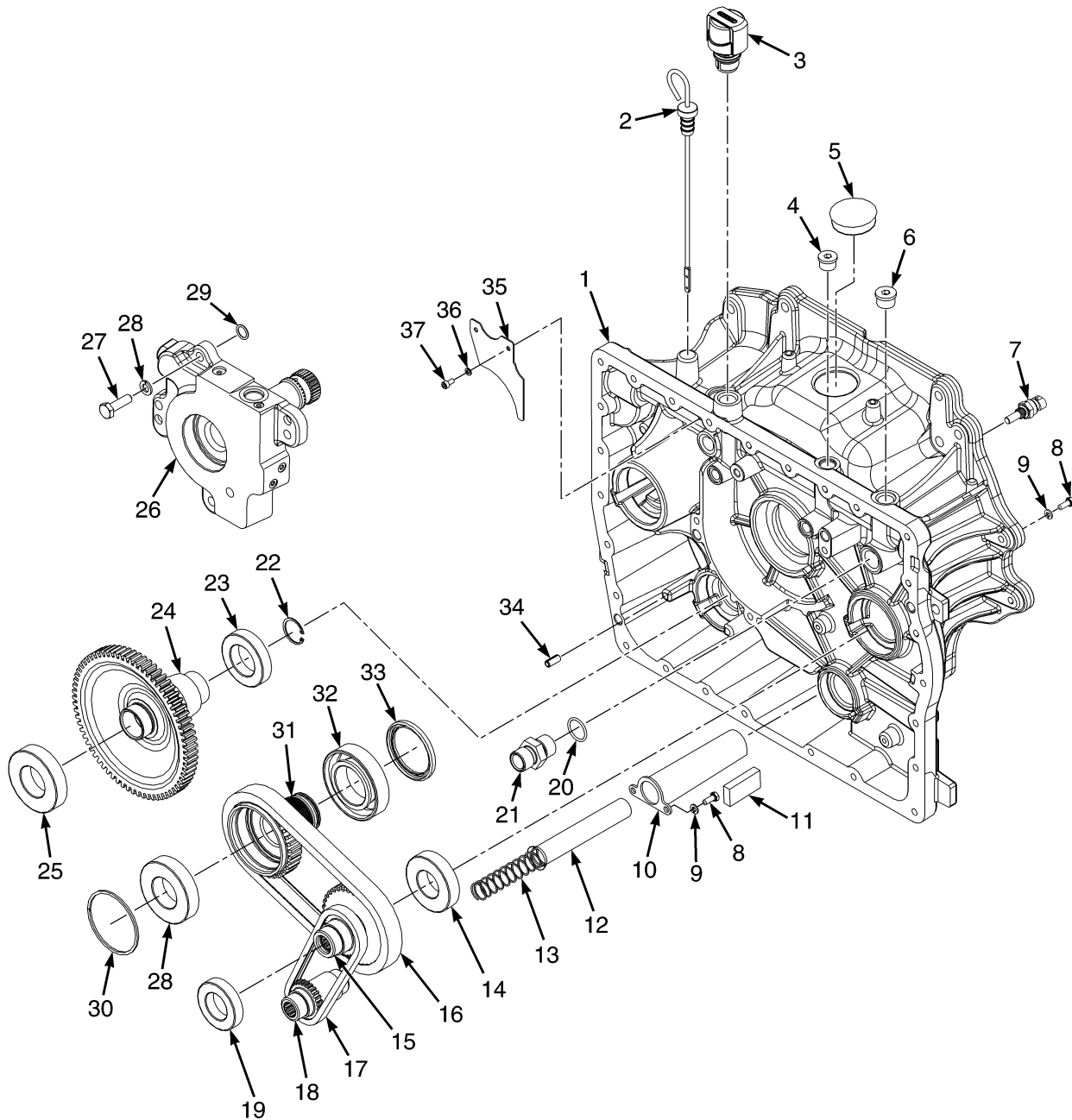
SINGLE SPEED (→ 2/2011)

ITEM	PART NO.	DESCRIPTION	QTY
	582003678	Transmission Assy	1
1	582011223	Transmission Housing	1
2	580094879	Gasket	1
3	580090094	Cover (Out Put Gear)	1
4	582004818	Roll Pin	2
5	580074887	Spacer	1
6	580035708	Nut	1
7	550020335	Transmission Filter	1
8	580087195	Clutch Pack (Reverse) (☞P21961 [Page 7-24]).....	1
9	580087194	Clutch Pack (Forward) (☞P21960 [Page 7-22]).....	1
10	580046769	O-Ring	1
11	950409907	Ball Bearing	2
12	514454800	Fitting	3
12	052645400	O-Ring	1
13	580050042	Dowel	2
14	580046451	Capscrew	26
15	500390901	Fitting	1
15	052645500	O-Ring	1
16	580094880	Gasket	1
17	580087458		
	582007293	Charge Pump (☞P22408 [Page 7-18]).....	1
18	449022016	Lockwasher	9
19	931013907	Capscrew	7
20	580046274	Oil Seal	1
21	580080753	Yoke	1
22	580011108	Seal	1
23	580079982	Flange Head Capscrew	1
24	580082537	Solenoid Valve	2
24	580078160	Kit-Seal	1
25	580051796	Pressure Transducer	2
26	315976070	Fitting	1
26	052645200	O-Ring	1
27	315976062	Fitting	1
27	056363300	O-Ring	1
28	580037013	Solenoid	1
29	582003502	Plug	2
29	582010096	O-Ring	1
	a 580059631	O-Ring	1
	a 504057751		
	505975518	Capscrew	6
	a 582011174	Bracket (Lifting Eye)	1

FOOTNOTES:

a Not Illustrated

TORQUE CONVERTER HOUSING AND ATTACHING PARTS (FIGURE 7-7)
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)



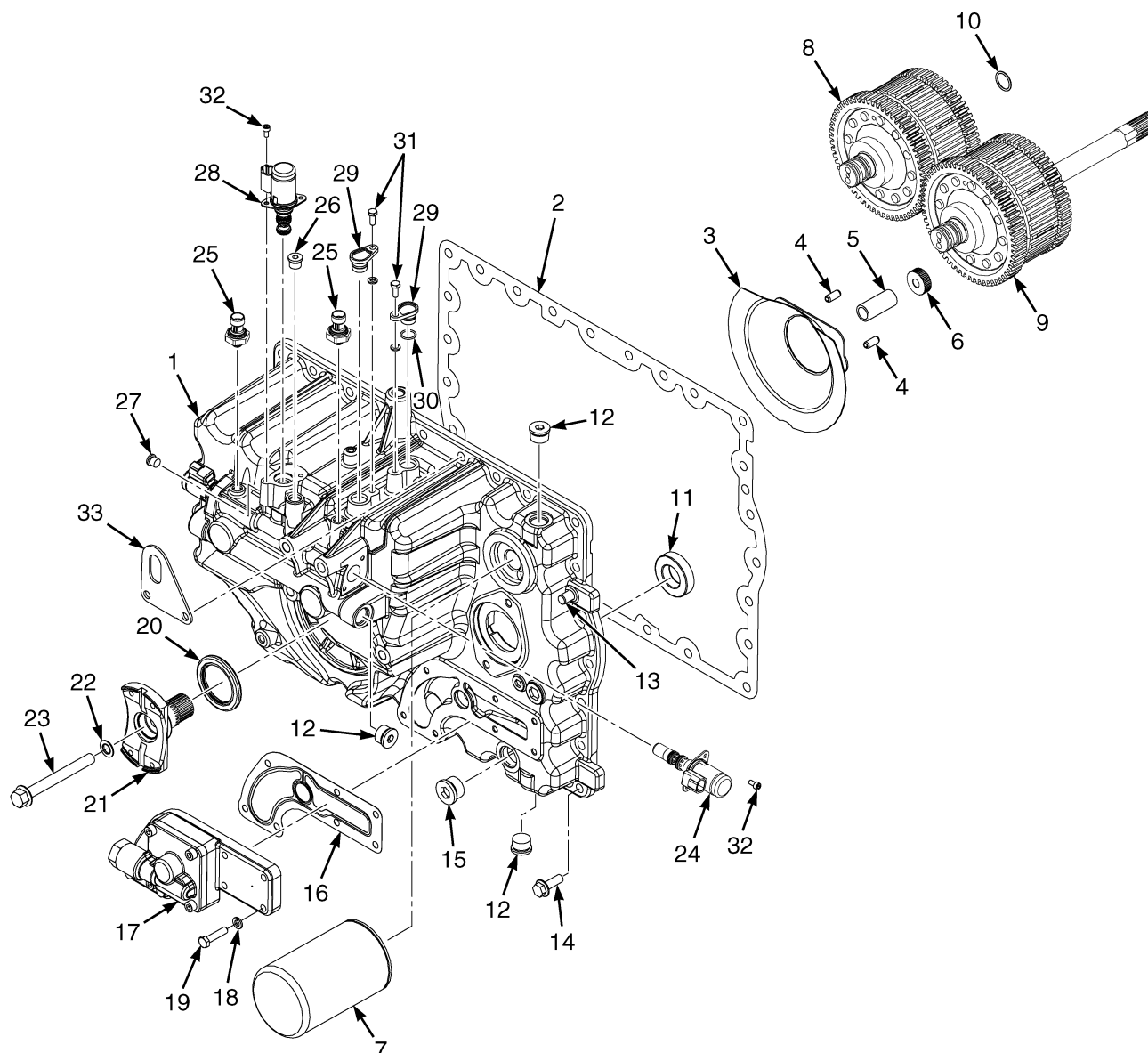
BP240179



TORQUE CONVERTER HOUSING AND ATTACHING PARTS
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)

ITEM	PART NO.	DESCRIPTION	QTY
	582008126	Transmission Assy	1
1	582006406	Converter Housing	1
2	580070353	Dipstick	1
3	580073345	Breather	1
4	505967551	Fitting	1
5	580095332	Plug	1
6	514454800	Fitting	3
7	580036023	Temperature Sensor	1
8	449001412	Capscrew	2
9	449022018	Washer	2
10	580094950	Cover	1
11	505967598	Magnet	1
12	505967534	Screen	1
13	580090191	Spring	1
14	015125800	Ball Bearing	1
15	582006408	Sprocket	1
16	582008293	Drive Chain	1
17	582008292	Drive Chain	1
18	582003870	Sprocket	1
19	500505908	Bearing	1
20	501802901	O-Ring	1
21	580048738	Fitting	1
22	064570300	Snap Ring	1
23	500025905	Ball Bearing	1
24	580089318	Transmission Gear	1
25	031206200	Ball Bearing	8
26	580087219	Housing Stator Support (P22409 [Page 7-20]).....	1
27	449001015	Capscrew	4
28	504057795		
	449022013	Lockwasher	4
29	012823500	O-Ring	2
30	580045072	Sealing Ring	1
31	582006407	Sprocket	1
32	580045064	Bearing	1
33	580046273	Oil Seal (Torque Converter)	1
34	582004818	Roll Pin	2
35	582008319	Plate	1
36	449022021	Washer	2
37	504057751		
	505975518	Capscrew	2

TRANSMISSION HOUSING AND ASSEMBLY (FIGURE 7-8)
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)



BP240178

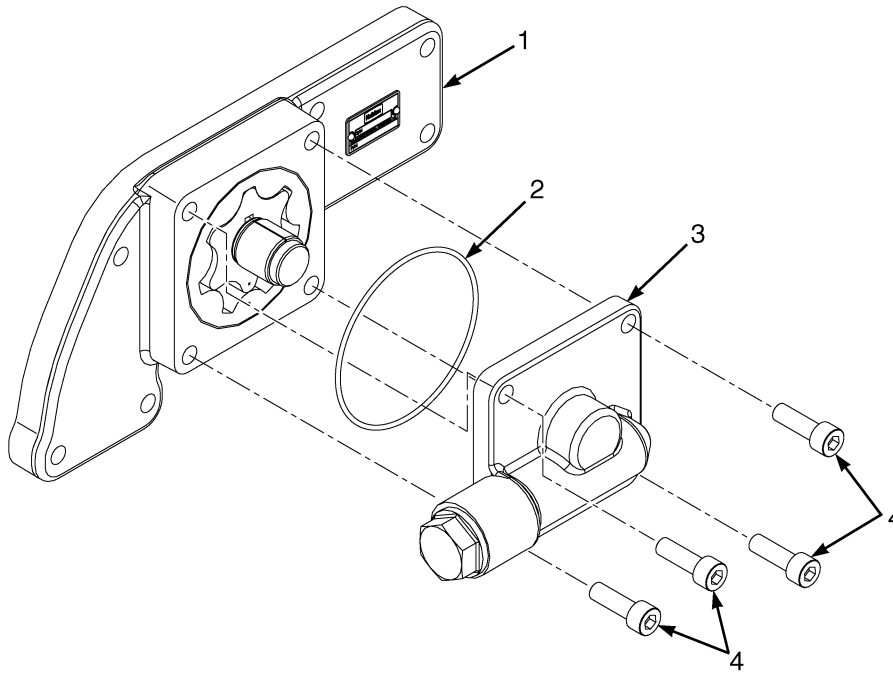


TRANSMISSION HOUSING AND ASSEMBLY
SINGLE SPEED, ALUMINUM CHAIN DRIVE (2/2011 →)

ITEM	PART NO.	DESCRIPTION	QTY
	582008126	Transmission Assy	1
1	b 582006405	Transmission Housing	1
1	c 582011224	Transmission Housing	1
2	580094879	Gasket	1
3	580090094	Cover	1
4	582004818	Roll Pin	2
5	580074887	Spacer	1
6	580035708	Nut	1
7	580072982	Filter	1
7	550020335	Transmission Filter (Alternate Part)	1
8	580087195	Clutch Pack (Reverse) (☞P21961 [Page 7-24]).....	1
9	580087194	Clutch Pack (Forward) (☞P21960 [Page 7-22]).....	1
10	502604901	O-Ring	1
11	950409907	Ball Bearing	2
12	514454800	Fitting	3
13	580050042	Dowel	2
14	580046451	Capscrew	26
15	500390901	Fitting	1
16	580094880	Gasket	1
17	580087458		
	582007293	Charge Pump (☞P22408 [Page 7-18]).....	1
17	582010310	Pin	2
17	580096514	O-Ring	1
17	582010311	Ball	1
17	582006862	Pin	1
18	449022016	Lockwasher	9
19	931013907	Capscrew	7
20	580046274	Oil Seal	1
21	580080753	Yoke	1
22	580011108	Seal	1
23	580079982	Flange Head Capscrew	1
24	580082537	Solenoid Valve	1
25	580051796	Pressure Transducer	1
26	315976070	Fitting	1
27	315976062	Fitting	1
28	580037013	Solenoid	1
29	582003502	Plug	2
30	582010096	O-Ring	2
31	449001412	Capscrew	2
32	504057751		
	505975518	Capscrew	6
33	c 582011174	Bracket (Lifting Eye)	1
	a 580059631	O-Ring	1

FOOTNOTES:**a** Not Illustrated**c** 2/2011 →**b** → 2/2011

CHARGE PUMP (FIGURE 7-9)

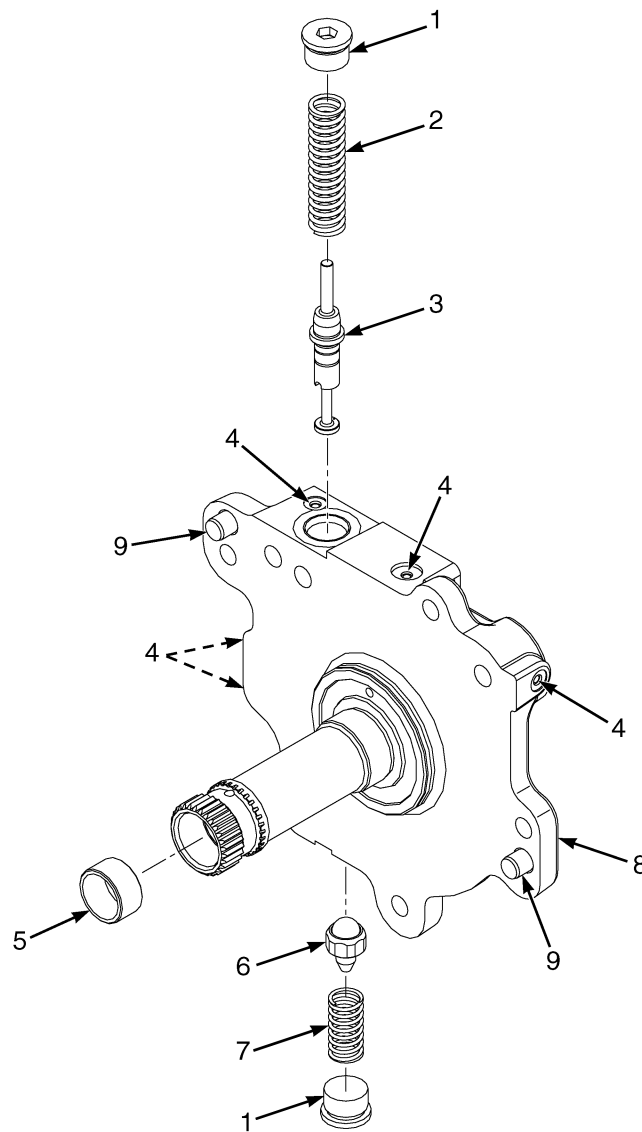


BP240965

ITEM	PART NO.	DESCRIPTION	QTY
	580087458		
	582007293	Charge Pump	1
1	.....	Body	1
2	580096514	O-Ring	1
3	.....	Cover	1
4	.....	Screws	4

[illegible]

STATOR SUPPORT HOUSING (FIGURE 7-10)

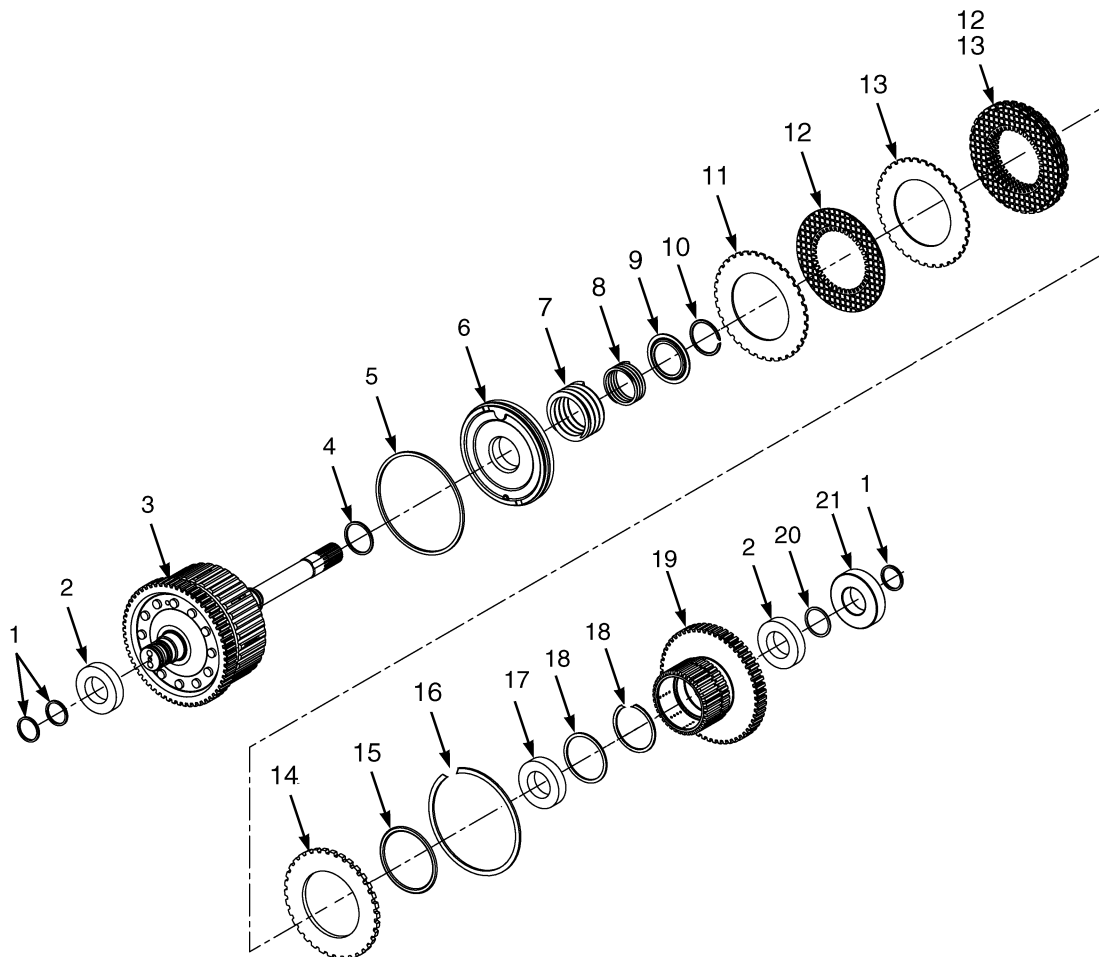


BP240196

**STATOR SUPPORT HOUSING**

ITEM	PART NO.	DESCRIPTION	QTY
	580087219	Housing Stator Support	1
1	514454800	Fitting	2
1	052645400	O-Ring	1
2	580087223	Spring	1
3	580087222	Spool	1
4	.....	Plug	5
5	580035701	Bushing	1
6	580094697	Ball	1
7	580087224	Spring	1
8	.....	Body	1

**INPUT/FORWARD CLUTCH (FIGURE 7-11)
SINGLE SPEED TRANSMISSION**



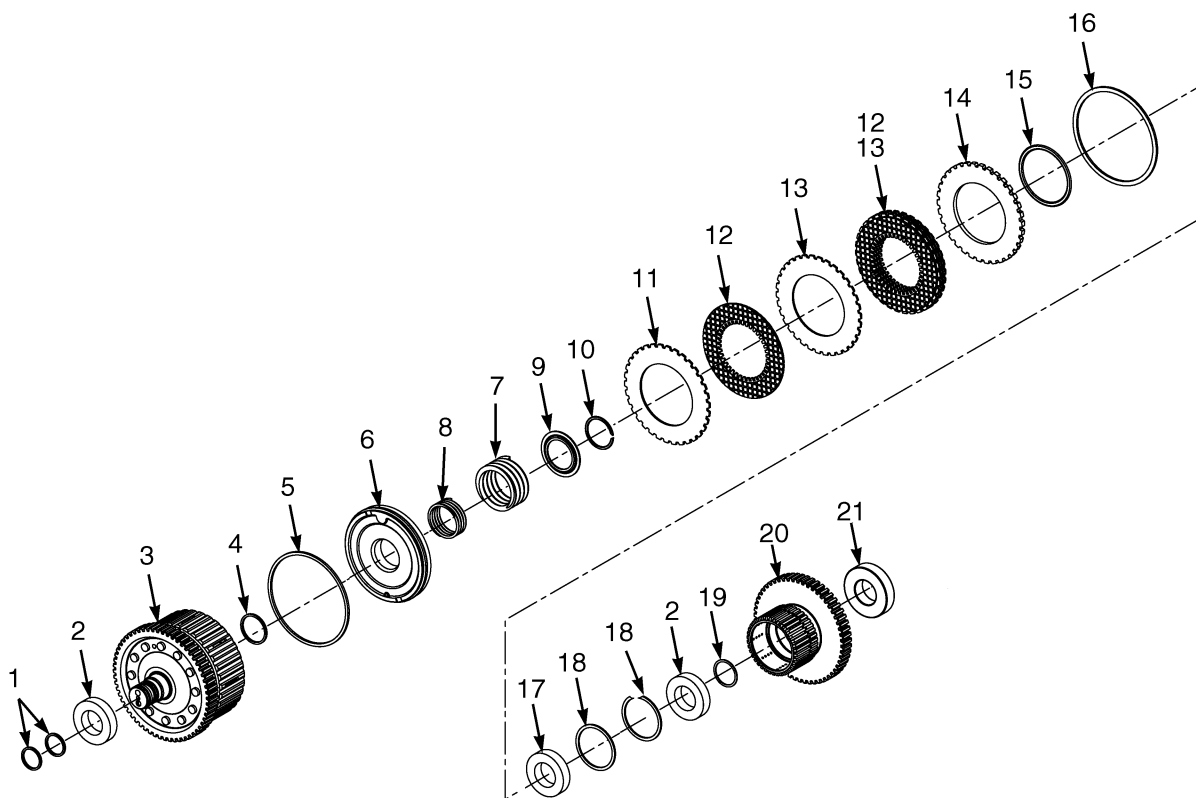
BP240098



INPUT/FORWARD CLUTCH SINGLE SPEED TRANSMISSION

ITEM	PART NO.	DESCRIPTION	QTY
	580087194	Clutch Pack	1
1	.....	Ring Seal	3
2	580055243		
	582011311	Ball Bearing	2
3	582002614	Shaft	1
4	.....	Ring Seal	1
5	.....	Ring Seal	1
6	524259220	Piston	1
7	580055204	Spring	1
8	580055193	Spring	1
9	580055195	Spring Guide	1
10	580055196	Snap Ring	1
11	.....	Conical Plate	1
12	.....	Friction Plate	5
13	.....	Separator Plate	4
14	580040786	Pressure Plate (6.0 mm)	1
15	.....	O-Ring	1
16	580040787	Snap Ring	1
17	580055216	Ball Bearing	1
18	580055203	Snap Ring	2
19	582002615	Clutch Gear	1
20	580040796	Snap Ring	1
21	015125800	Ball Bearing	1
	580042533	Kit-Clutch Pack Plates	1
	580060755	Kit-Clutch Pack Seals	1

COUNTER/REVERSE CLUTCH (FIGURE 7-12)
SINGLE SPEED TRANSMISSION



BP240099



COUNTER/REVERSE CLUTCH SINGLE SPEED TRANSMISSION

ITEM	PART NO.	DESCRIPTION	QTY
	580087195	Clutch Pack	1
1	.....	Seal	2
2	580055243		
	582011311	Ball Bearing	2
3	582002614	Shaft	1
4	.....	Seal	1
5	.....	Seal	1
6	524259220	Piston	1
7	580055204	Spring	1
8	580055193	Spring	1
9	580055195	Spring Guide	1
10	580055196	Snap Ring	1
11	.....	Conical Plate	1
12	.....	Friction Plate	5
13	.....	Separator Plate	4
14	580042529	Pressure Plate (5.8 mm)	1
15	.....	O-Ring	1
16	580040787	Snap Ring	1
17	580055216	Ball Bearing	1
18	580055203	Snap Ring	1
19	580040796	Snap Ring	1
20	582002615	Clutch Gear	1
21	015125800	Ball Bearing	1
	580042533	Kit-Clutch Pack Plates	1
	580060755	Kit-Clutch Pack Seals	1

NOTES

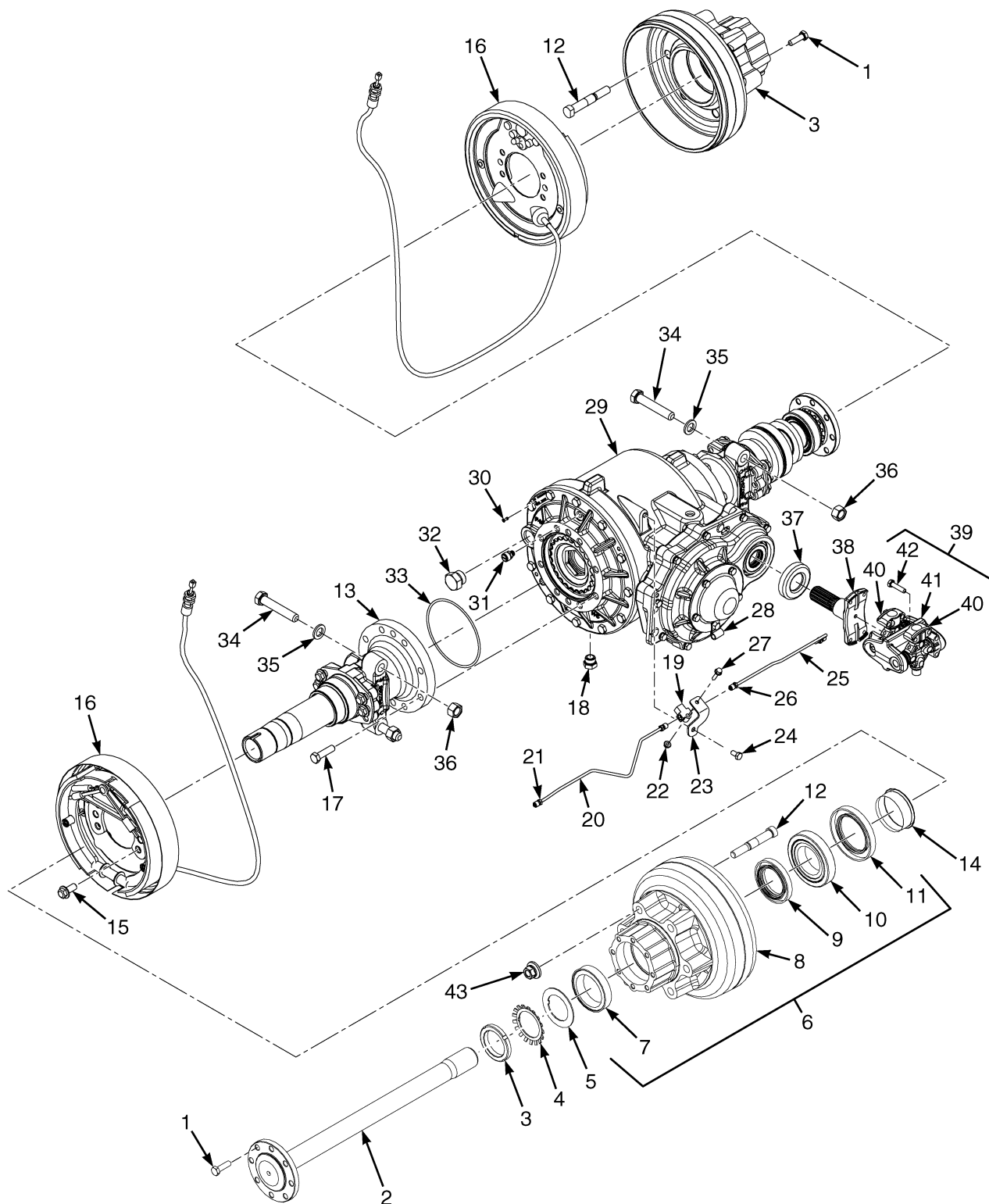
[illegible]



SECTION 8 DRIVE AXLE

DESCRIPTION	PAGE
CENTER SECTION	8-6
DRIVE AXLE ASSEMBLY	8-2
DRIVE TIRE AND WHEEL	8-8

DRIVE AXLE ASSEMBLY (FIGURE 8-1)



BP070131



DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	582006711	Drive Axle	1
1	931014906	Capscrew	16
2	582001179	Axle Shaft	2
3	940800907	Nut	2
4	906085100	Lockwasher	2
5	919921300	Washer	2
6	580037237	Hub Assembly	2
7	580036620	Tapered Roller Bearing	1
7	519244814	Bearing Set (Optional)	1
8	580036946	Hub (Brake Drum)	1
9	921949300	Seal	1
10	909932409	Tapered Roller Bearing	1
10	449058011	Roller Bearing (Optional)	1
11	920802300	Seal	1
12	580036619	Wheel Stud (Hub)	6
13	582006709	Drive Axle Housing (RH and LH)	2
14	582001231	Wear Sleeve	1
15	908076100	Bolt	12
16	580046640	Brake Assembly (LH, with Cable) (☞P22054 [Page 10-2]).....	1
16	580046641	Brake Assembly (RH, with Cable) (☞P22054 [Page 10-2]).....	1
17	502565903	Capscrew	20
18	580034643	Drain Plug	1
19	580075200	Fitting	1
20	582001469	Tube Assy	1
21	518805618	Nut	2
22	580004321		
	580047919	Nut	1
23	580068404	Bracket	1
24	580047714	Capscrew	1
25	582001468	Tube Assy	1
26	518805618	Nut	2
27	580049840	Capscrew	1
28	580057863	Clamp	1
28	900003231	Clamp (Optional)	1
29	582001467	Drive Axle Center Section (☞P22029 [Page 8-6]).....	1
30	580044373	Blind Break (Pop) Rivet	2
31	582006770	Plug	1
32	080437000	Plug	1
33	582006769	O-Ring	2
34	931017918	Capscrew	4
35	502566903	Washer	4
36	580005381		
	580080654	Nut	4
37	.....	Dust Cover	1
38	580033339	Shaft	1
39	580045195	Drive Shaft	1
40	580051814	Universal Joint	2
41	580051813	Coupling	1
42	931013907	Capscrew	8
43	580033391	Wheel Nut	12



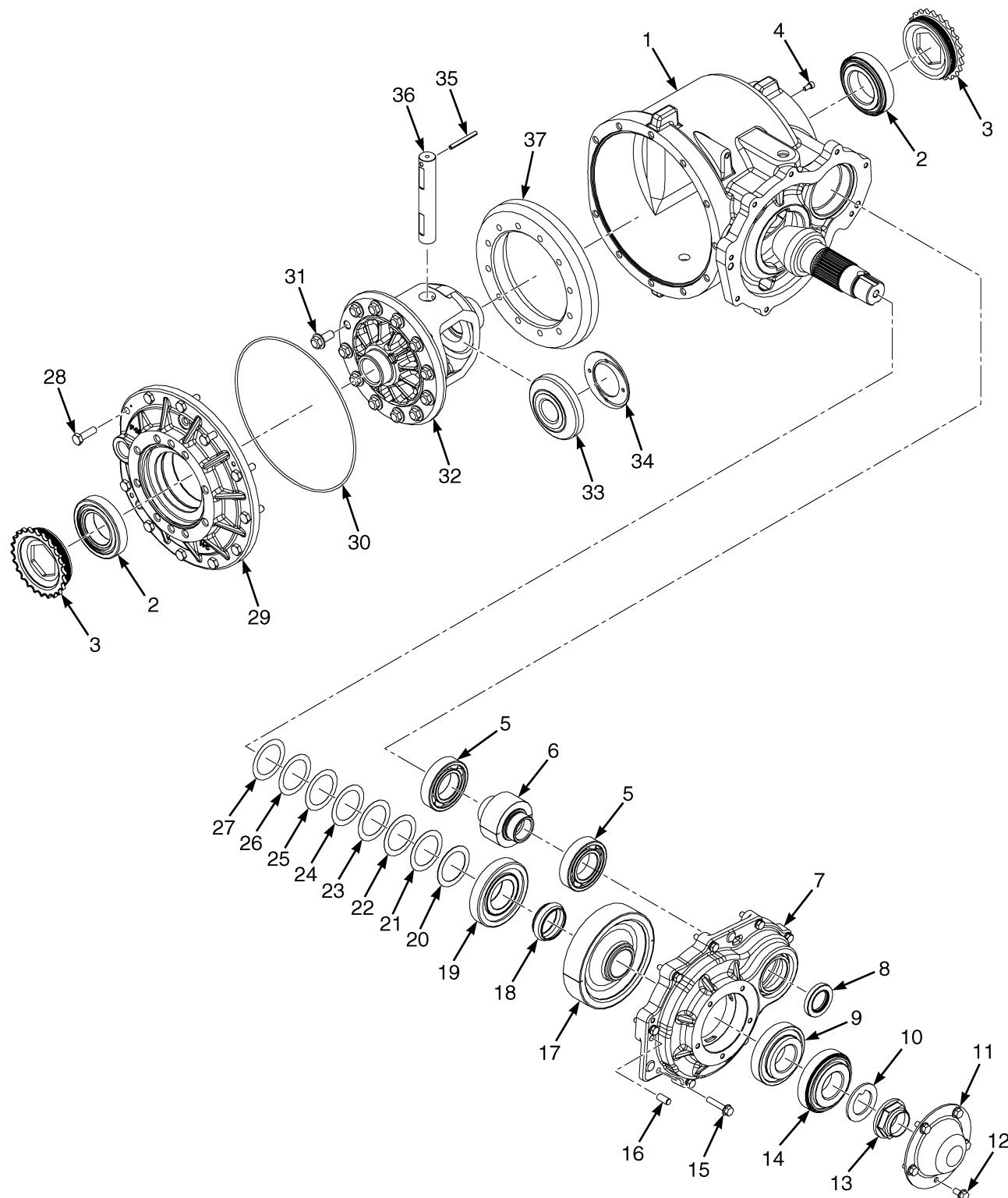
P22028 01-11

DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	504226218	Lubricant	AR

[illegible]

CENTER SECTION (FIGURE 8-2)



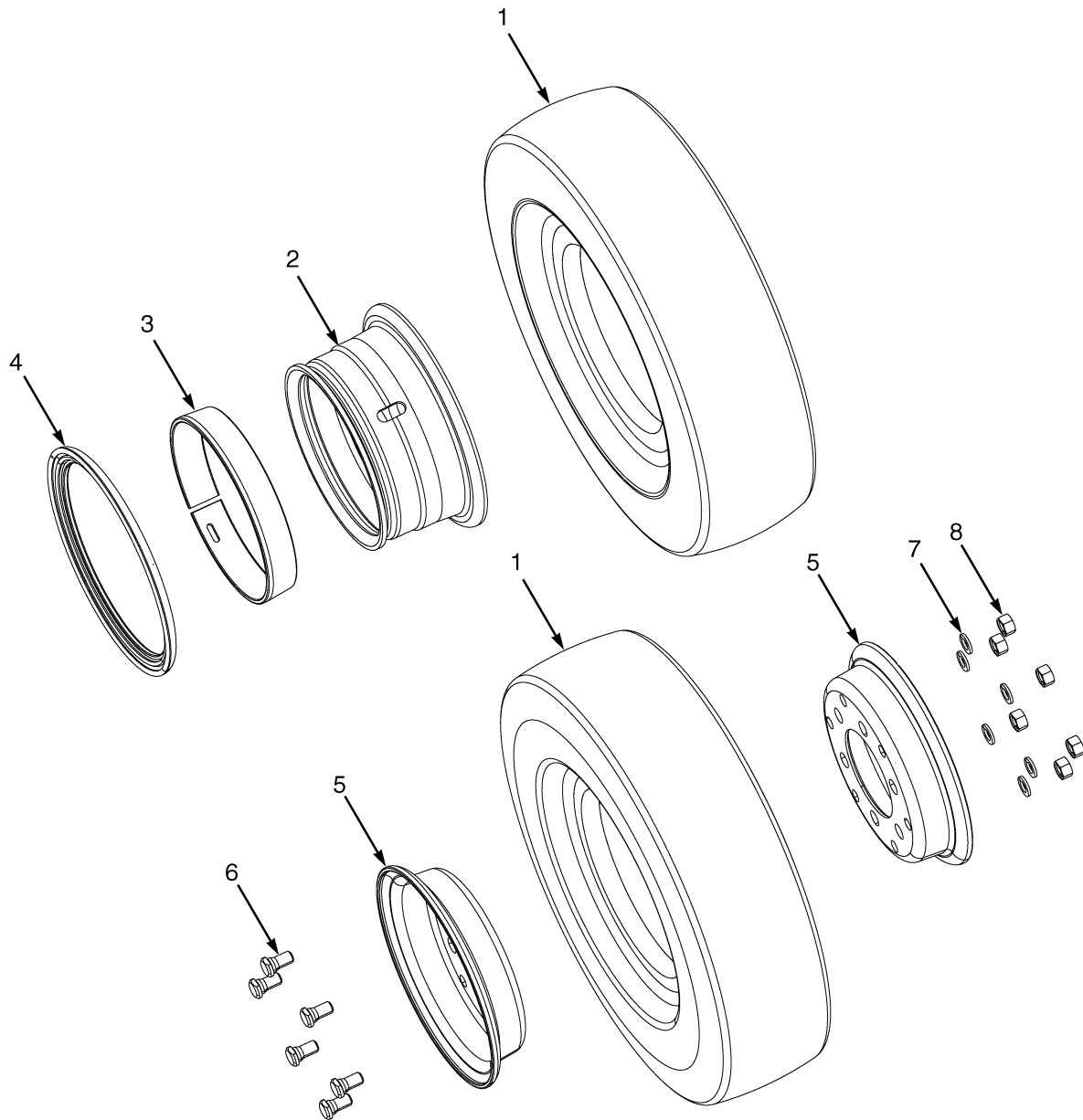
BP070130



CENTER SECTION

ITEM	PART NO.	DESCRIPTION	QTY
	582001467	Drive Axle Center Section (Assembly)	1
1	.....	Center Section Housing	1
2	909932401	Radial Roller Bearing	2
3	582001248	Nut	2
4	932200902	Capscrew	2
5	580034889	Ball Bearing	2
6	580033315	Gear	1
7	580032974	Housing	1
8	580034754	Oil Seal	1
9	580087365	Tapered Roller Bearing	1
10	580037836	Washer	1
11	580032975	Cover	1
12	580047714	Capscrew	5
13	924234401	Nut	1
14	950513905	Tapered Roller Bearing	1
15	580030967	Capscrew	9
16	505967544	Dowel	2
17	582001249	Gear	1
18	582001250	Sleeve	1
19	906196100	Tapered Roller Bearing	1
19	582010095	Tapered Roller Bearing (Option)	1
20	580034313	Shim (0.04 in.)	1
21	580052864	Shim (0.009 in.)	1
22	580034310	Shim (0.012 in.)	1
23	580052866	Shim (0.014 in.)	1
24	580034311	Shim (0.016 in.)	1
25	580052867	Shim (0.018 in.)	1
26	580034312	Shim (0.19 in.)	1
27	580052865	Shim (0.008 in.)	1
28	931014906	Capscrew	11
29	582001466	Cover	1
30	580088730	O-Ring	1
31	908076100	Bolt	12
32	580035137	Differential	1
33	580062090	Kit-Gear	2
34	580060289	Washer	2
35	580060232	Shaft	1
37	580060225	Split Pin	1
38	580035540	Gear and Pinion	1
	580057351	Sealant	1
	520042831	Adhesive	1

DRIVE TIRE AND WHEEL (FIGURE 8-3)



BP070102



DRIVE TIRE AND WHEEL

ITEM	PART NO.	DESCRIPTION	QTY
1	580043016	Solid Pneumatic Tire (6.50x10/5.0)	2
1	580043014	Pneumatic Tire (6.50 x 10-12PR)	2
2	580047728	Rim (6.50x10/5.0)	2
3	505971519	Wheel Side Ring	1
4	505971543	Wheel Lock Ring	1
5	580076563	Wheel Assy (5.00 x 10) (6.50x10-12 PR)	2
5	.....	Inner Rim	1
5	.....	Outer Rim	1
6	906646100	Wheel Stud	6
7	449022041	Lockwasher	6
8	449015011	Nut	6
	a 505971656	Label (Warning)	1

FOOTNOTES:

a Not Illustrated

NOTES

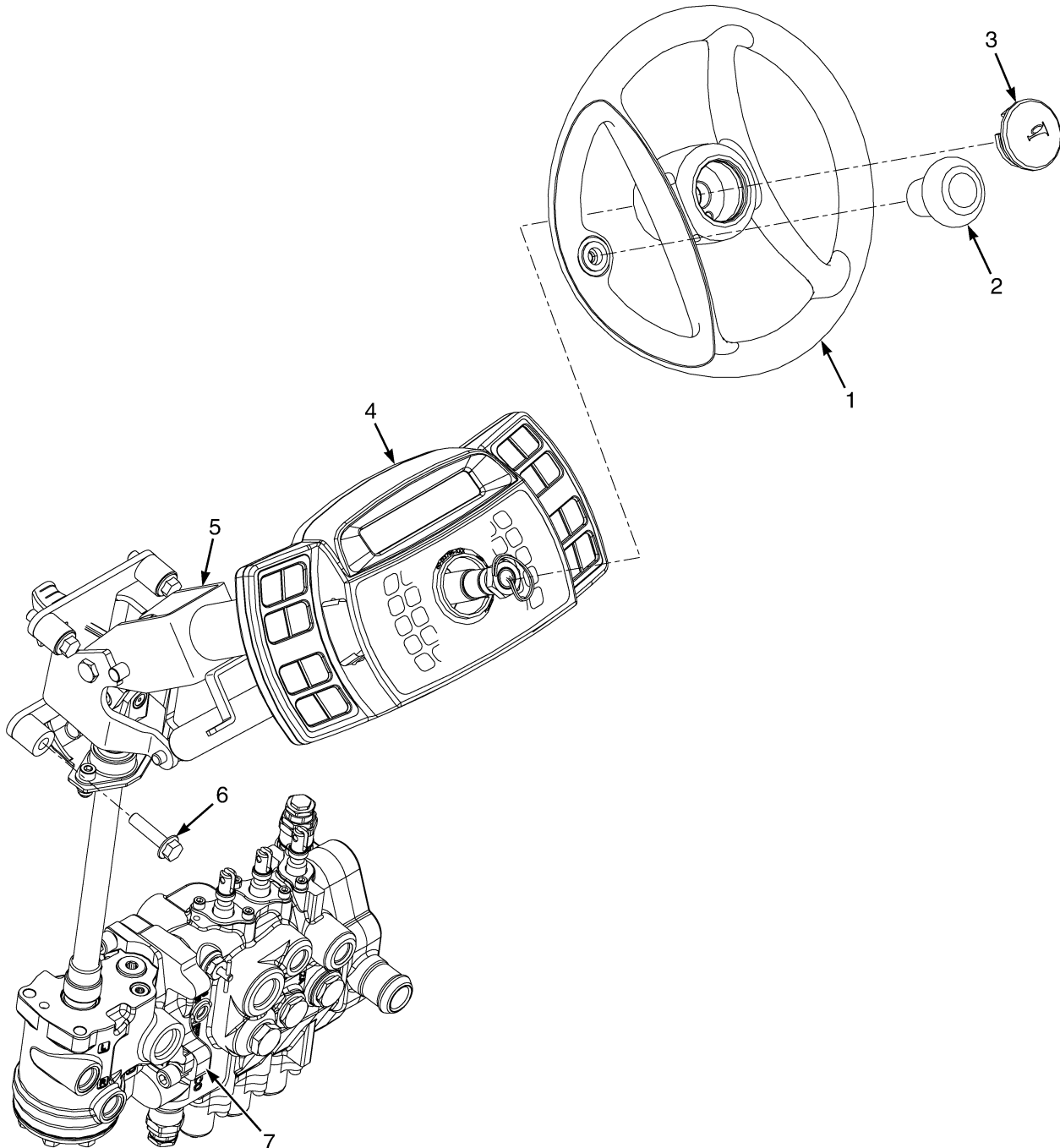
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SECTION 9 STEERING SYSTEM

DESCRIPTION	PAGE
STEER TIRE AND WHEEL	9-12
STEERING AXLE AND ATTACHING PARTS	9-8
STEERING COLUMN ASSEMBLY	9-4
ISOLATED, DIESEL	9-6
STEERING CYLINDER	9-10
STEERING WHEEL AND COLUMN	9-2

STEERING WHEEL AND COLUMN (FIGURE 9-1)



BP220175



STEERING WHEEL AND COLUMN

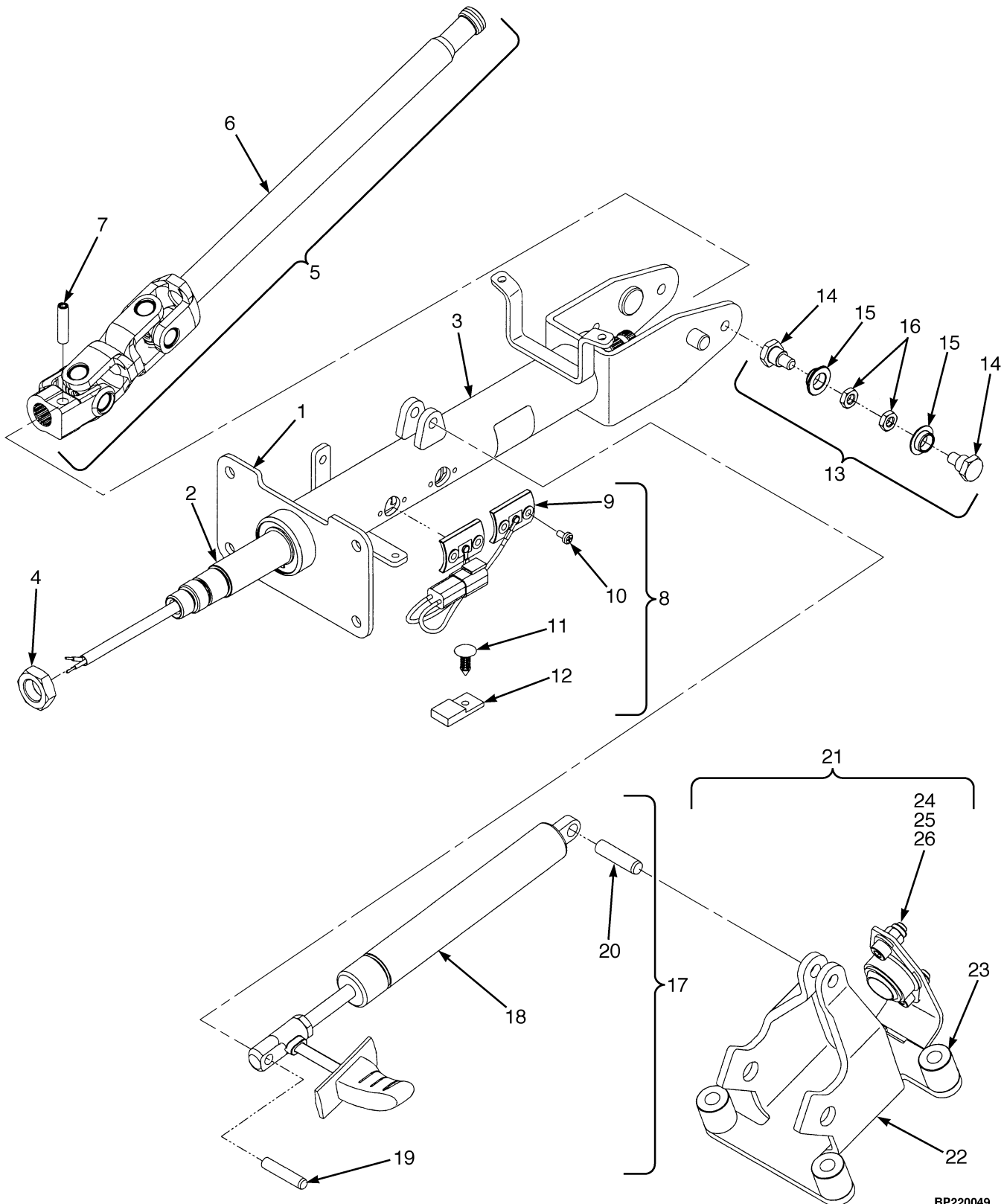
ITEM	PART NO.	DESCRIPTION	QTY
1	580046399	Steering Wheel (Without Spinner Knob)	1
1	580045338	Steering Wheel (With Spinner) (With Spinner Knob)	1
2	580058078	Knob Assembly	1
2	580086874	Knob	1
2	580086875	Cap	1
2	580086876	Insert	1
3	580065002	Horn Button	1
4	.....	Display Cluster (☞ P22011 [Page 6-12]).....	1
5	a 580081787	Steering Column (☞ P22033 [Page 9-4]).....	1
5	b 582010289	Steering Column (☞ P22033 [Page 9-4]).....	1
5	582010292	Steering Column (Diesel) (☞ P23485 [Page 9-6]).....	1
5	582012579	Steering Column (Diesel, Alternate Part)	1
6	580032011	Capscrew	4
7	.....	Hydraulic Control Valve	1

FOOTNOTES:

a → S/N A974V01703J INC. 01712-01714

b S/N A975V01704J → EXC. 01712-01714

STEERING COLUMN ASSEMBLY (FIGURE 9-2)



BP220049



STEERING COLUMN ASSEMBLY

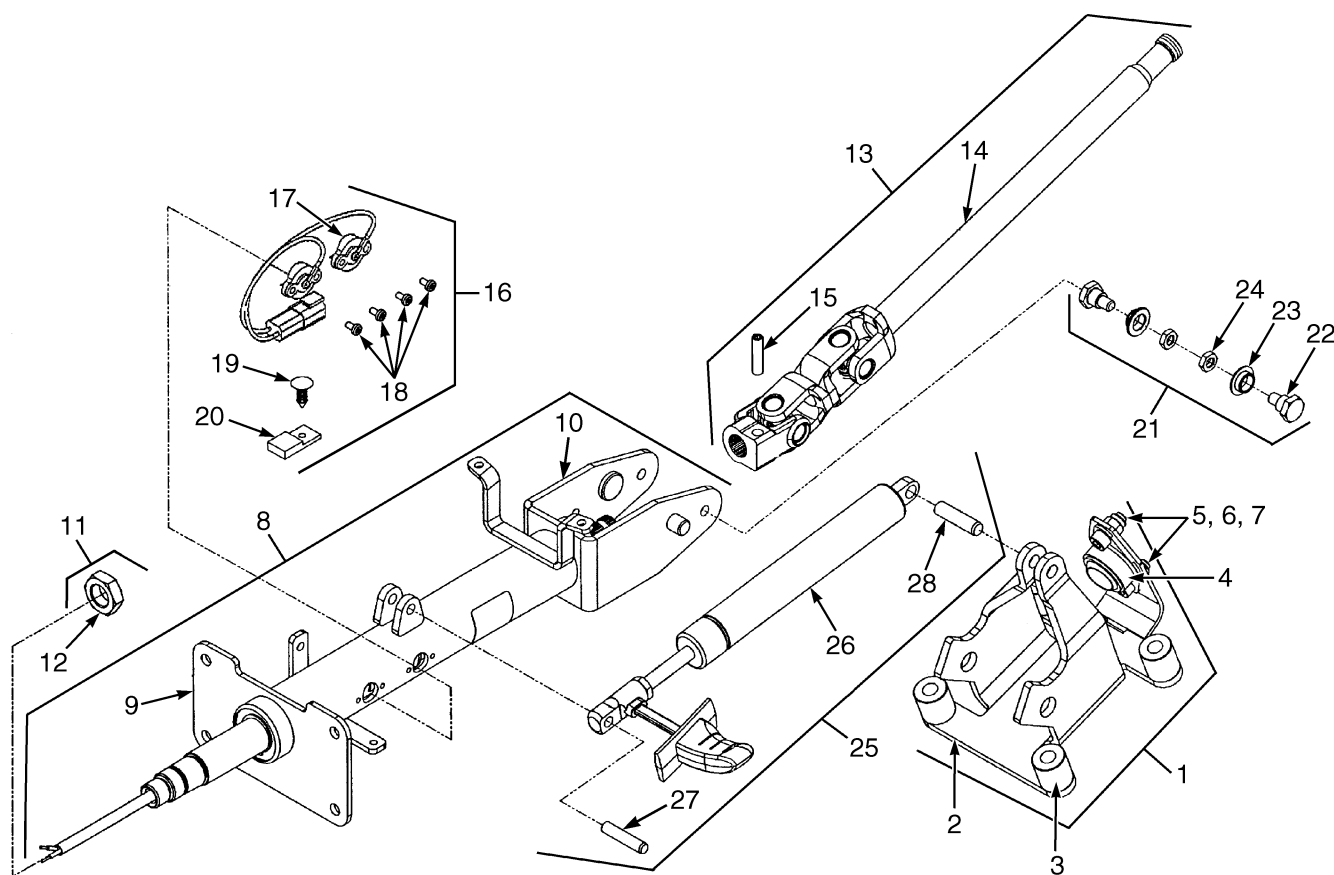
KEY:
A: Non Isolated
B: Isolated

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 580081787	Steering Column	1	..
	b 582010289	Steering Column	1	..
	582010292	Steering Column	..	1
1	582012601	Kit (Shaft Upper)	1	1
2	.....	Shaft Assembly (Upper)	1	1
3	.....	Housing	1	1
4	580049810	Kit-Nut	1	1
4	.....	Nut	2	2
5	580049811	Kit-Shaft (Lower)	1	1
6	.....	Shaft Assembly (Lower)	1	1
7	.....	Pin	1	1
8	580049812	Kit-Contact	1	1
9	.....	Contact Assembly (Horn)	1	1
10	.....	Screw	4	4
11	.....	Fastener	1	1
12	.....	Connector	1	1
13	580049806	Kit-Pivot (Lower)	1	1
14	.....	Bolt (Pivot)	2	2
15	.....	Bushing	2	2
16	.....	Nut	2	2
17	580049807	Kit-Gas Spring	1	1
18	.....	Gas Spring	1	1
19	.....	Pin	1	1
20	.....	Pin	1	1
21	580049808	Kit-Support	1	..
21	580078691	Kit-Support	..	1
22	.....	Support	1	1
23	.....	Spacer	4	..
24	.....	Nut	2	2
25	.....	Washer	2	2
26	.....	Screw	2	2

FOOTNOTES:
a → 1/2011

b 1/2011 →

STEERING COLUMN ASSEMBLY (FIGURE 9-3)
ISOLATED, DIESEL



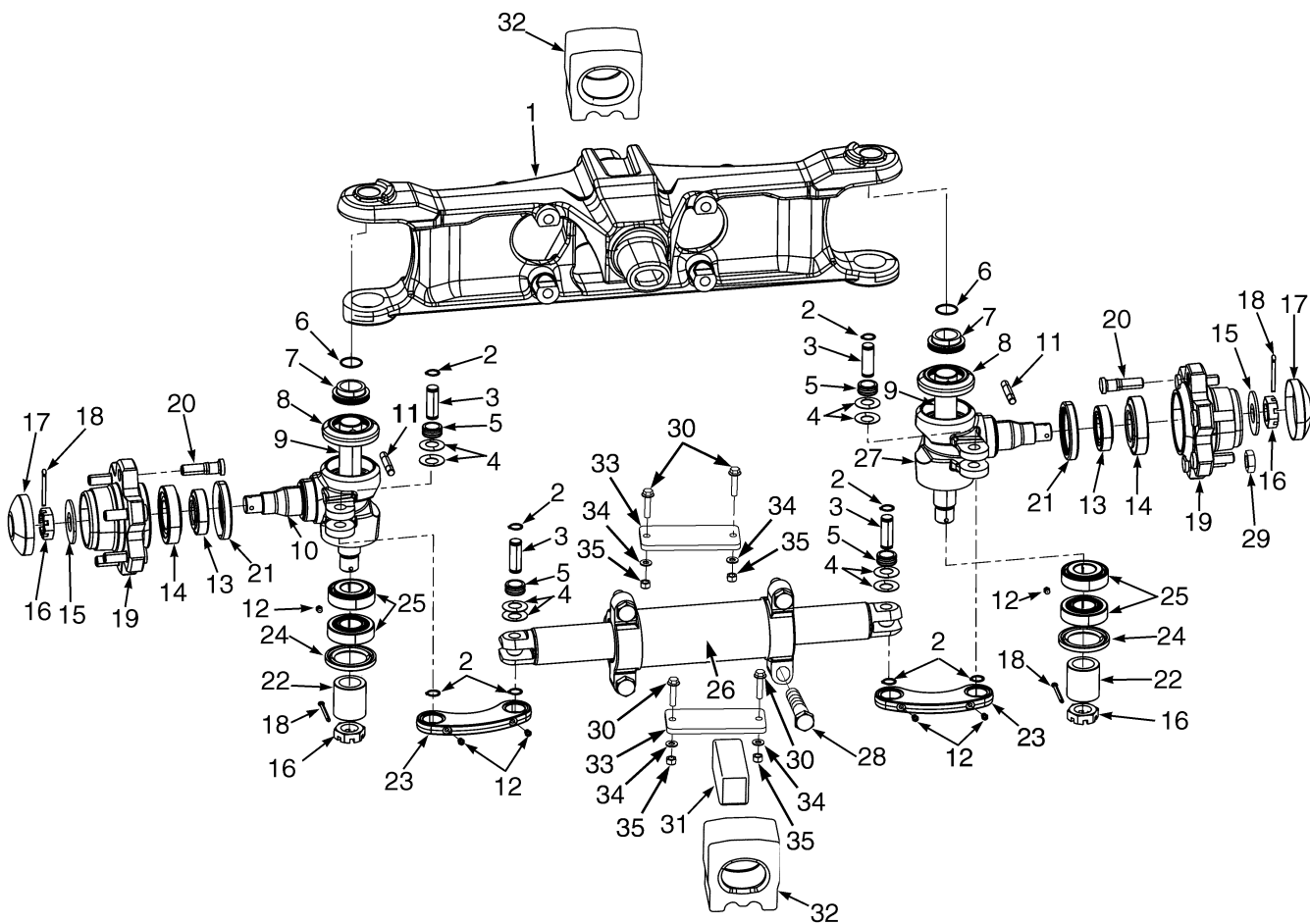
BP220224



STEERING COLUMN ASSEMBLY ISOLATED, DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	582012579	Steering Column	1
1	582016325	Kit-Support	1
2	.....	Support	1
3	.....	Spacer	4
4	.....	Joint	1
5	.....	Nut	2
6	.....	Washer	2
7	.....	Screw	2
8	582016326	Kit-Shaft (Upper)	1
9	.....	Shaft Assembly (Upper)	1
10	.....	Housing Assembly	1
11	582016327	Kit-Nut	1
12	.....	Nut	2
13	582016328	Kit-Shaft (Lower)	1
14	.....	Shaft Assembly (Lower)	1
15	.....	Pin	1
16	582016329	Kit-Contact	1
17	.....	Contact Assembly (Horn)	1
18	.....	Screw	4
19	.....	Fastener	1
20	.....	Connector	1
21	582016330	Kit Pivot (Lower)	1
22	.....	Bolt (Pivot)	2
23	.....	Bushing	2
24	.....	Nut	2
25	582016331	Kit-Gas Spring	1
26	.....	Gas Spring	1
27	.....	Pin	1
28	.....	Pin	1

STEERING AXLE AND ATTACHING PARTS (FIGURE 9-4)



BP220174



STEERING AXLE AND ATTACHING PARTS

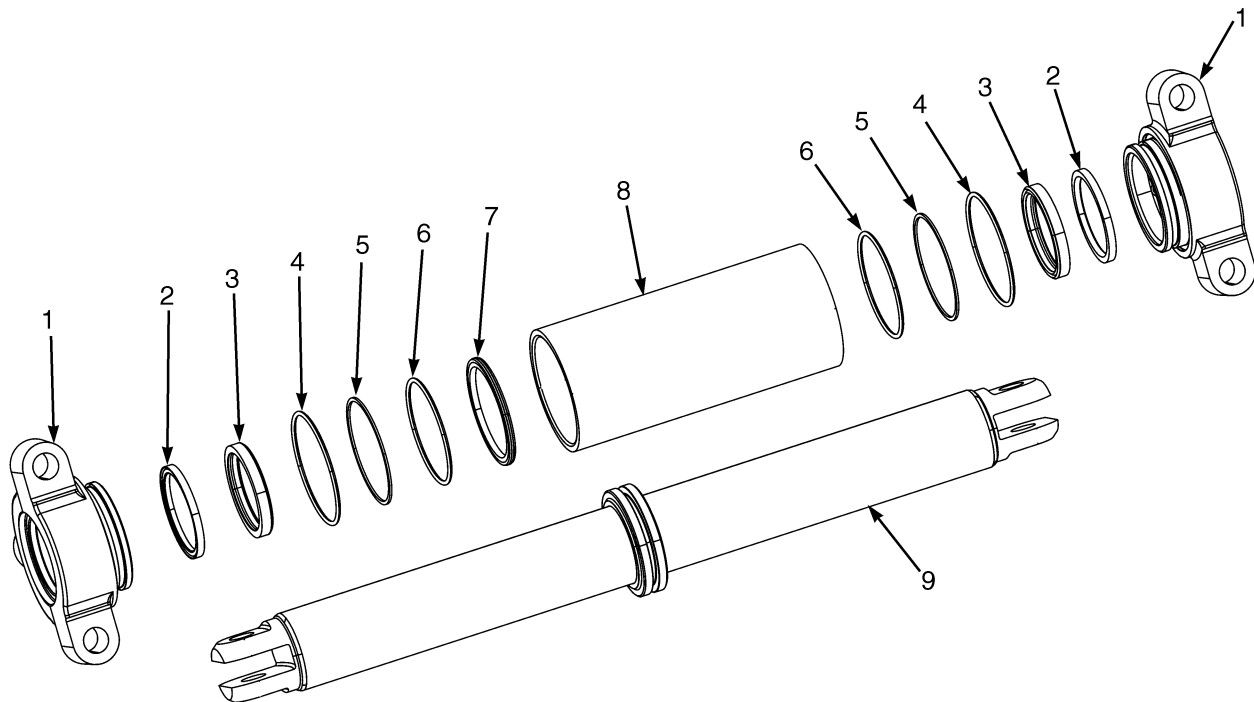
ITEM	PART NO.	DESCRIPTION	QTY
	580035777	Steer Axle Assembly	1
1	580035774	Steering Axle	1
2	015918200	Snap Ring	8
3	580052360	Pin	4
4	505972590	Spherical Washer	8
5	505972565	Bushing	4
6	505969521	O-Ring	2
7	505971538	Spacer	2
8	505971512	Seal	2
9	580040319	King Pin	2
10	580035771	Spindle (LH)	1
11	505969551	Pin	2
12	015631500	Grease Fitting	6
13	950517907	Tapered Roller Bearing	2
13	909932406	Bearing Set (Optional)	2
14	580061343	Tapered Roller Bearing	2
14	909932405	Bearing Set (Optional)	2
15	580040318	Washer	2
16	505971513	Nut	4
17	922363300	Cap	2
18	015421600	Cotter Pin	4
19	580035778	Hub	2
20	580061342	Wheel Stud	6
21	958506995	Seal	2
22	505971590	Sleeve	2
23	a 580035775	Tie Rod	2
23	b 582012628	Tie Rod	2
24	505970544	Oil Seal	2
25	059695400	Bearing Set	4
25	582002078	Bearing Set	4
26	580036340	Steering Cylinder (☞ P22064 [Page 9-10]).....	1
27	580035770	Spindle (RH)	1
28	311323023	Capscrew	4
29	580033391	Wheel Nut	12
30	580049331	Capscrew	4
31	580002046	Rubber Mount	1
32	524179205	Rubber Mount	2
33	582001483	Plate	2
34	449021006	Washer	4
35	909882404	Nut	4

FOOTNOTES:

a → 4/2011

b 4/2011 →

STEERING CYLINDER (FIGURE 9-5)

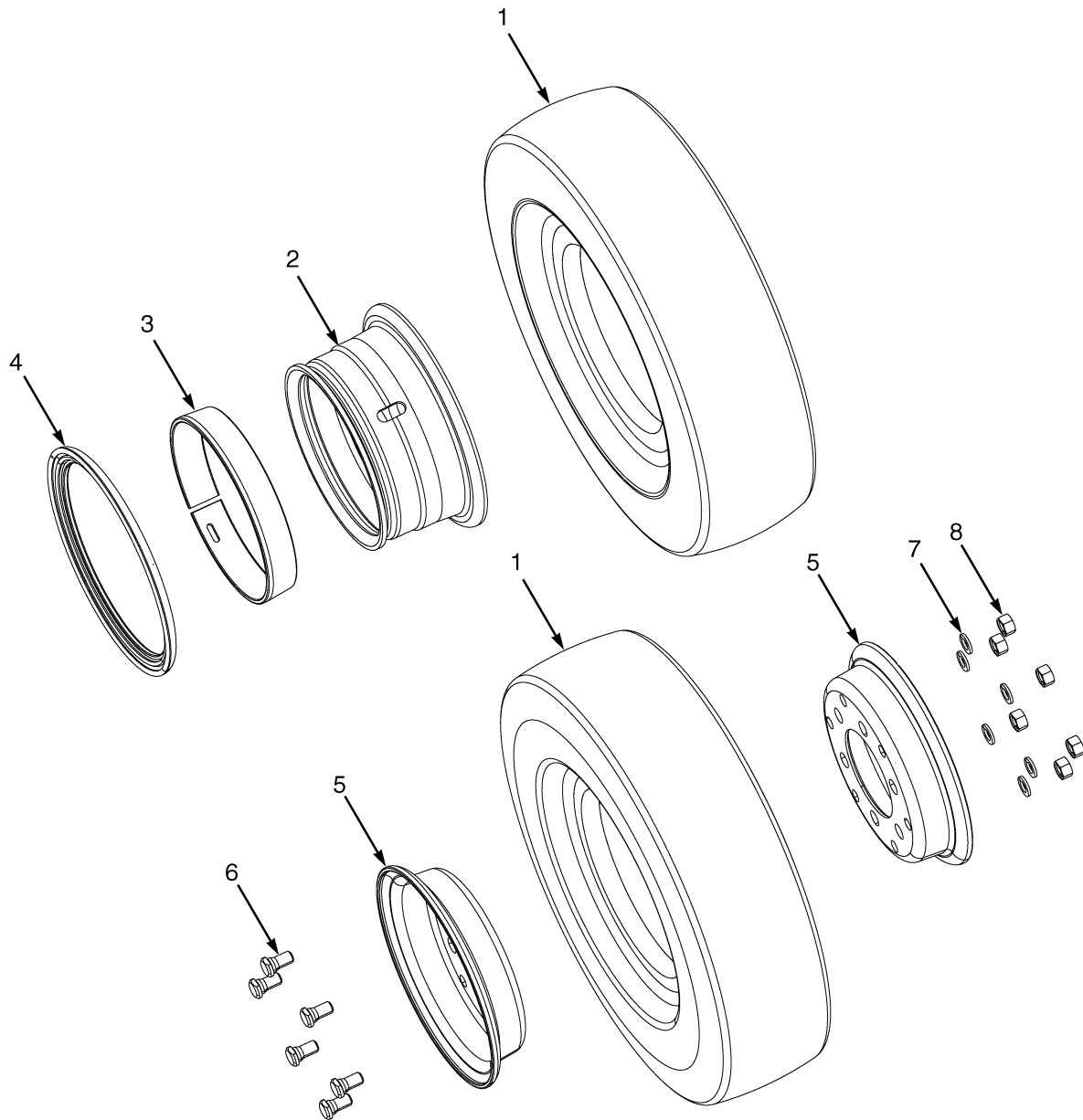


BP220064

ITEM	PART NO.	DESCRIPTION	QTY
	580036340	Steering Cylinder	1
1	580039584	End Cap	2
2	580061341	Rod Wiper	2
3	580039757	Rod Seal	2
4	052674100	O-Ring	2
5	504225242	Back-Up Ring	2
6	504236262	O-Ring	2
7	504305701	Piston Seal	1
8	580040032	Tube Wldmt-Cylinder	1
9	580039586	Cylinder Rod	1
	580039758	Kit-Seal	1

[illegible]

STEER TIRE AND WHEEL (FIGURE 9-6)



BP070102



STEER TIRE AND WHEEL

ITEM	PART NO.	DESCRIPTION	QTY
1	504060776	Solid Pneumatic Tire (18x7-8)	2
1	580043015	Pneumatic Tire (5.00x8-10PR)	2
2	580047741	Rim (4.33 x 8) (18x7-8)	2
3	902136802	Ring	1
4	902136803	Lockring	1
5	580076561	Wheel Assy (5.00x8-10PR)	2
5	.....	Inner Rim	1
5	.....	Outer Rim	1
6	906268100	Wheel Stud	6
7	449022017	Lockwasher	6
8	580064978	Nut	6
	a 505971656	Label (Warning)	1

FOOTNOTES:

a Not Illustrated

NOTES

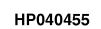
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**SECTION 10
BRAKE SYSTEM**

DESCRIPTION	PAGE
BRAKE ASSEMBLY	10-2
BRAKE PEDAL LINKAGE	10-4
PARK BRAKE	10-6

BRAKE ASSEMBLY (FIGURE 10-1)



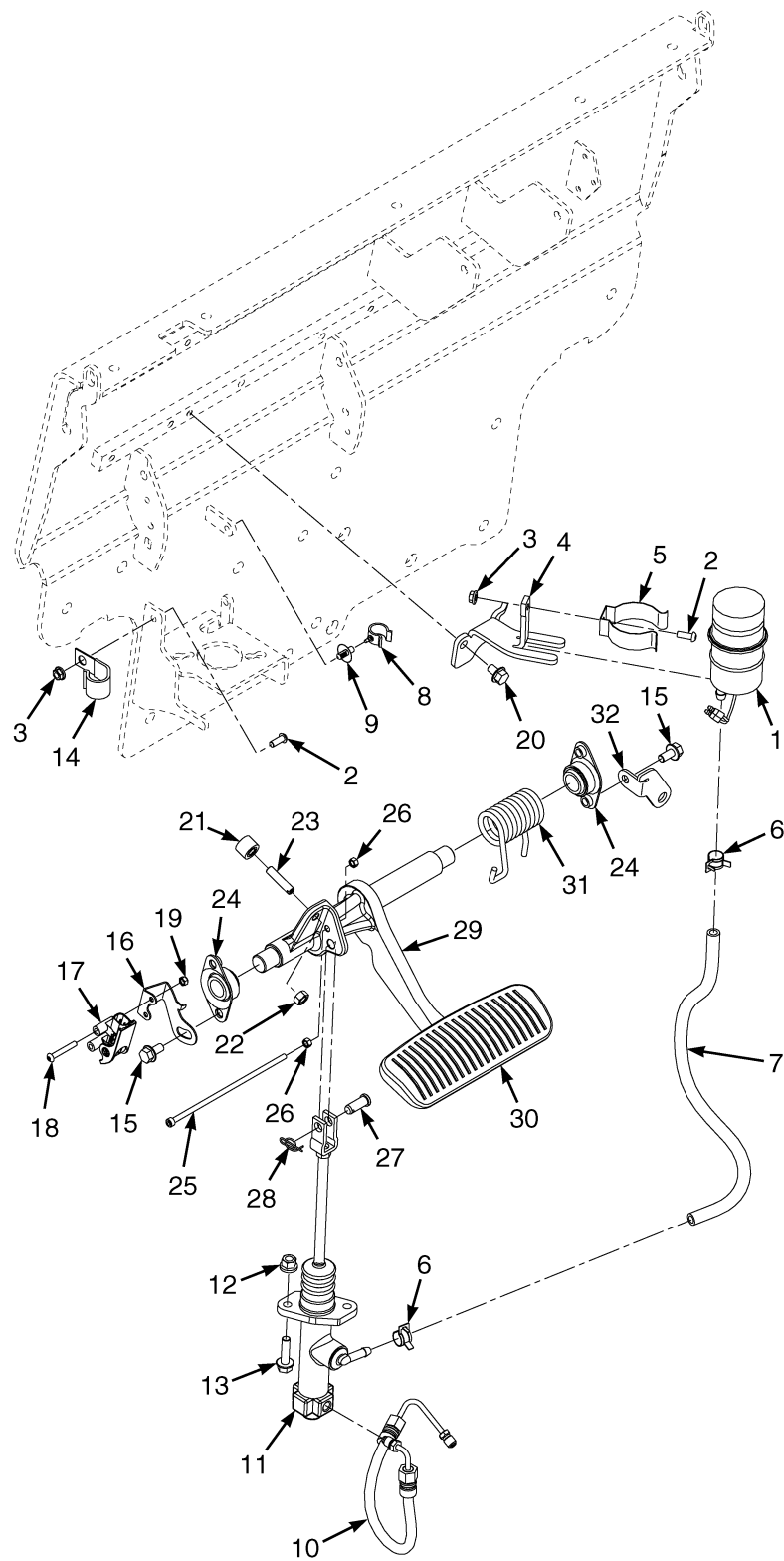


BRAKE ASSEMBLY

KEY:
A: Left Hand
B: Right Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	580046640	Brake Assembly (LH, with Cable)	1	..
	580046641	Brake Assembly (RH, with Cable)	..	1
	580060321	Brake Assembly (LH, without cable)	1	..
	580060322	Brake Assembly (RH, without cable)	..	1
1	902194801	Backplate	..	1
1	902194802	Backplate	1	..
2	.....	Brake Shoe	2	2
3	902194804	Bolt	2	2
4	.....	Adjuster Assembly	..	1
4	.....	Adjuster Assembly	1	..
5	.....	Spring (Adjuster)	1	1
6	902194805	Lever (RH)	..	1
6	902194806	Lever (LH)	1	..
7	.....	Pin	1	1
8	902194808	Strut	1	1
9	902194809	Retaining Ring	2	2
10	902194810	Spring	2	2
11	.....	Spring (Shoe Hold Down)	2	2
12	.....	Washer	2	2
13	.....	Washer (Lower)	1	1
14	.....	Pin	2	2
15	580060323	Wear Plate	1	1
16	900094826	Plug	1	1
17	.....	Lever	..	1
17	.....	Lever	1	..
18	.....	Stop (Lever)	1	1
19	.....	Spring	1	1
20	902194811	Spring	1	1
21	902194803	Wheel Cylinder	1	1
22	902194840	Piston Rod	2	2
23	.....	Piston	2	2
24	.....	Cup	2	2
25	.....	Spring	1	1
26	.....	Boot	2	2
27	900870815	Cup	1	1
28	900094842	Bleeder Screw	1	1
29	580046642	Parking Brake Cable (LH)	1	..
29	580046643	Parking Brake Cable (RH)	..	1
	929151300	Kit-Brake Shoe	1	1
	924307401	Kit-Adjuster (LH)	1	..
	924307402	Kit-Adjuster (RH)	..	1
	929150300	Kit-Hold Down	1	1
	904165100	Kit-Repair Wheel Cylinder	1	1
	936301301	Kit-Repair Wheel Cylinder	1	1

BRAKE PEDAL LINKAGE (FIGURE 10-2)



BP040147



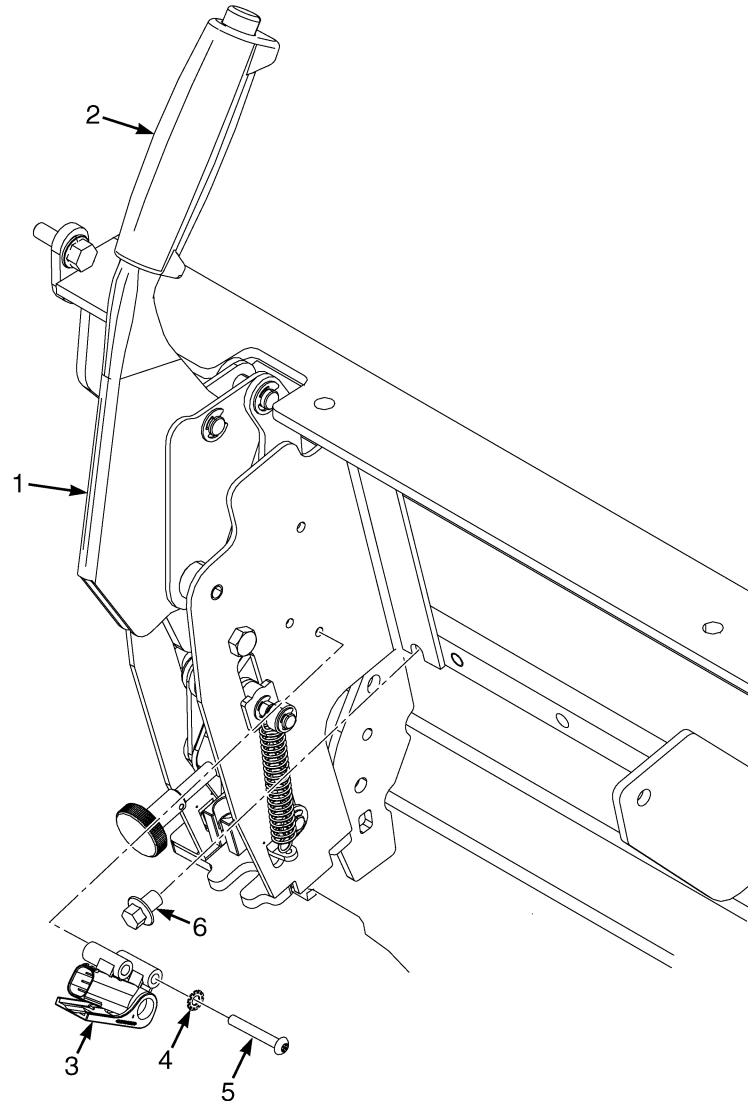
BRAKE PEDAL LINKAGE

ITEM	PART NO.	DESCRIPTION	QTY
1	934403300	Reservoir	1
1	922100300	Cap	1
1	934404300	Tank	1
1	922102300	Packing	1
2	580030975	Screw (Button Head)	2
3	580004321		
	580047919	Nut	2
4	582000718	Mount	1
5	922627300	Holder	1
6	580039908	Hose Clamp	2
7	580056627	Hose	1
8	580042794	Clamp (Swivel)	1
9	580042842	Clamp	1
10	580039640	Hose Assy	1
11	582005114	Master Cylinder	1
12	580042963	Locknut	2
13	580049229	Capscrew	2
14	504231226	Clamp	1
15	580047714	Capscrew	2
16	582001972	Mount	1
17	580083939	Sensor (Brake Position)	1
18	582004169	Screw	2
19	449015112	Locknut	2
20	580037180	Capscrew	1
21	580047742	Bumper	1
22	449015014	Nut	1
23	580040128	Bolt	1
24	580057831	Bushing	2
25	580095974	Capscrew	1
26	937100904	Nut	2
27	580056624	Pin (Rod End)	1
28	580000868	Locking Cotter Pin	1
29	580096884	Brake Pedal	1
30	580052931	Rubber Pad	1
31	580052279	Spring (RH)	1
32	580060576	Bracket	1
	501702902	Loctite	1
a	580096655	Wire Harness (Jumper) (Brake Sensor/Cowl Harness)	1

FOOTNOTES:

a Not Illustrated

PARK BRAKE (FIGURE 10-3)



BP040148



PARK BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	b 582003487	Parking Brake Assembly	1
1	c 582017140	Parking Brake Assembly	1
2	b 580044783	Parking Brake Lever	1
2	580084626	Grip	1
2	c 582017134	Parking Brake Lever	1
3	580083939	Sensor (Brake Position)	1
4	940600906	Washer	2
5	582004169	Screw	2
6	b 580037180	Capscrew	4
6	c 582004724	Capscrew	4
	a 580096655	Wire Harness (Jumper) (Brake Sensor/Cowl Harness)	1

FOOTNOTES:

a Not Illustrated

c PENDING PER ECN 154238 →

b → PENDING PER ECN 154238

NOTES

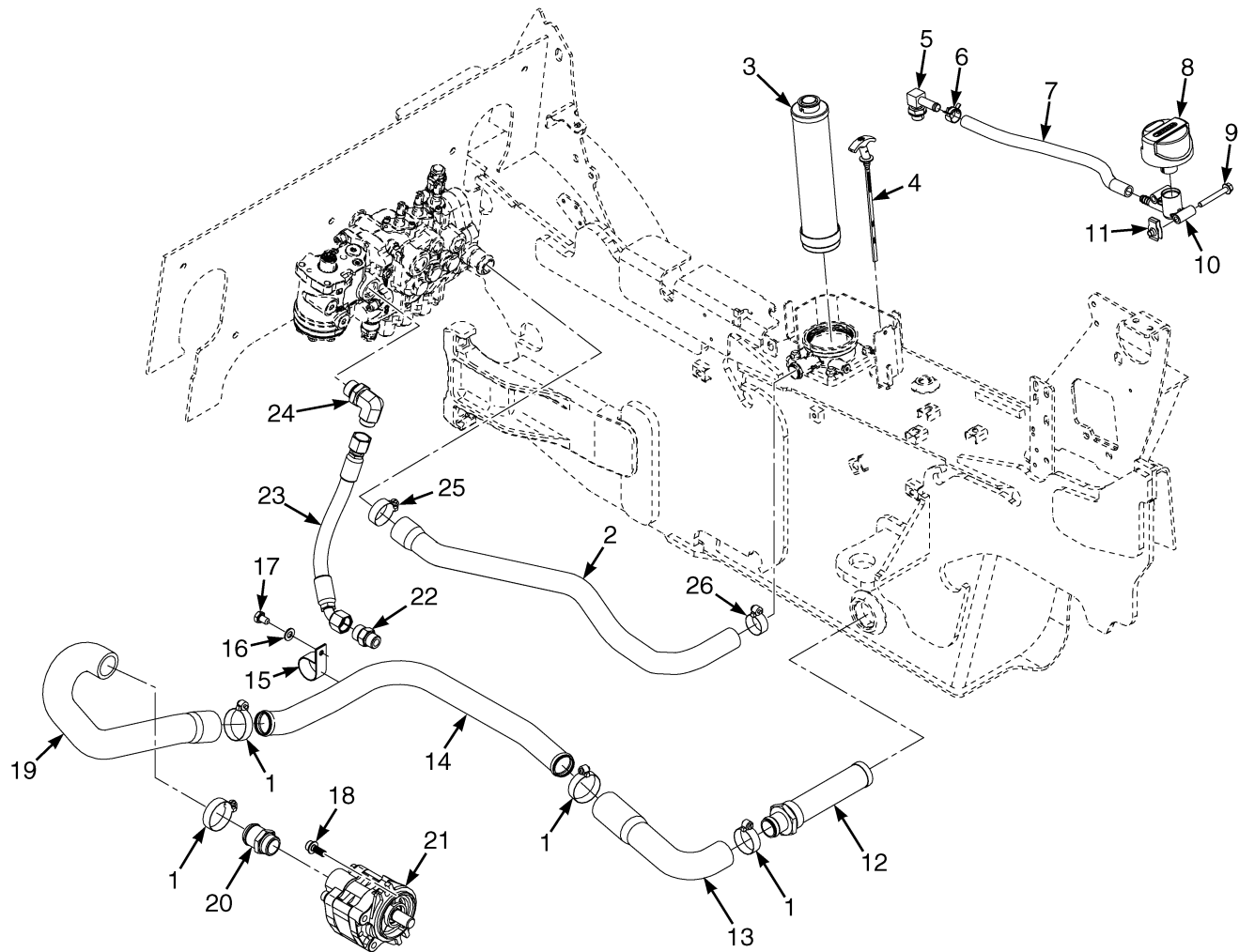
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



SECTION 11 HYDRAULIC SYSTEM

DESCRIPTION	PAGE
GEAR PUMP ASSEMBLY	11-4
HAND LEVERS	
2 AND 3 FUNCTION	11-14
HYDRAULIC CONTROL VALVE	
MANUAL - 3 FUNCTION	11-16
HYDRAULIC FILTER HOUSING	11-10
HYDRAULIC HOSES	
STEERING	11-6
HYDRAULIC SUPPLY AND RETURN	11-2
TILT AND AUXILIARY HOSES	11-8
TILT CYLINDER AND MAST INSTALLATION	11-11
TILT CYLINDER ASSEMBLY	11-12
VALVE ASSEMBLY, AUXILIARY	
MANUAL CONTROL VALVE - THREE FUNCTION	11-20
VALVE ASSEMBLY, LIFT AND TILT	
MANUAL CONTROL VALVE - THREE FUNCTION	11-18
VALVE ASSEMBLY, OUTLET SECTION	
MANUAL CONTROL VALVE - THREE FUNCTION	11-22

HYDRAULIC SUPPLY AND RETURN (FIGURE 11-1)



BP150400



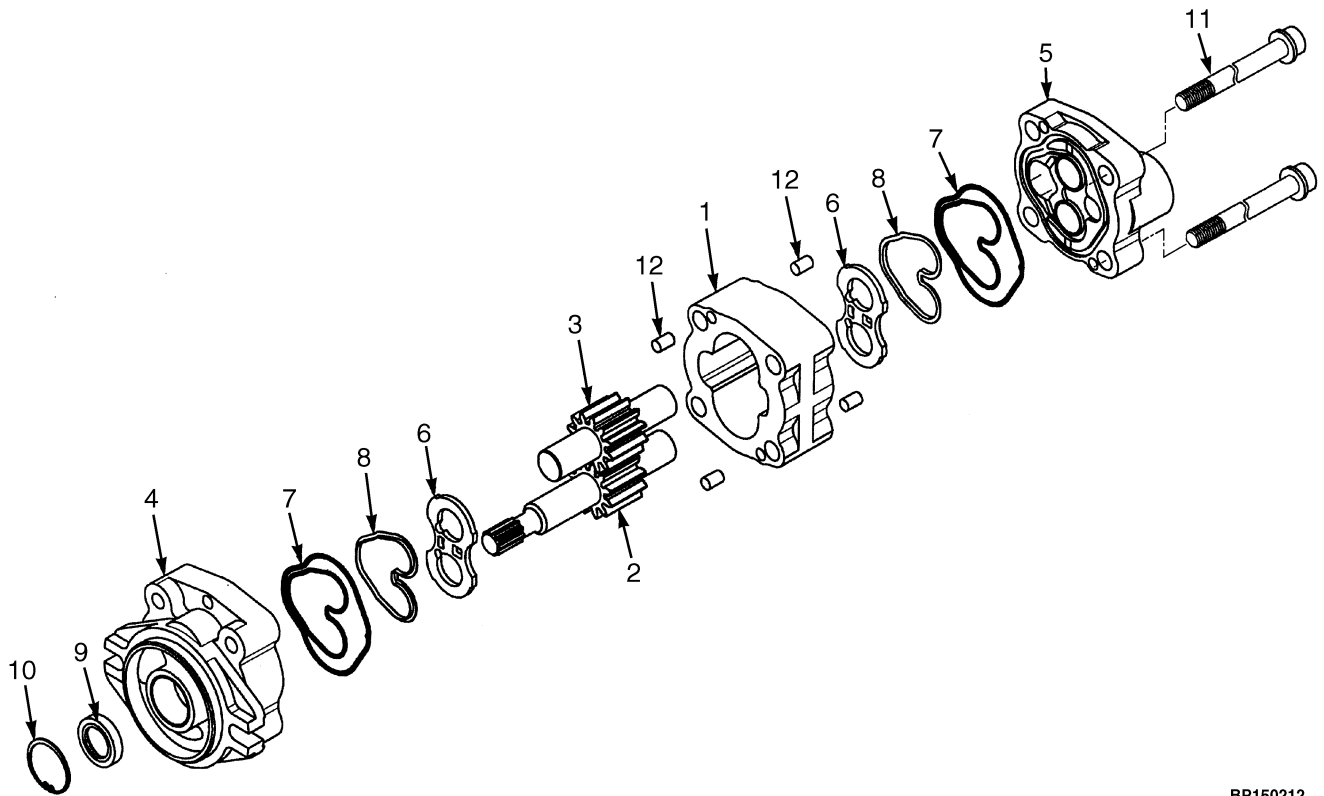
HYDRAULIC SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	502056903	Clamp	6
1	502056903	Clamp (Alternate Part)	4
2	580096833	Hose (Return)	1
3	.....	Hydraulic Filter (☞P21979 [Page 11-10]).....	1
4	580040912	Dipstick	1
4	580054992	O-Ring	1
5	500154904	Fitting	1
6	580039912	Hose Clamp	1
7	580027066	Hose	1
7	580027270	Hose (Optional)	1
8	580056337	Breather	1
9	580030969	Capscrew	2
10	580056336	Adapter (Breather)	1
11	580012987	Nut	2
12	580071011	Strainer	1
12	052645900	O-Ring	1
13	582006514	Hose	1
14	582005520	Tube	1
15	582005336	Clamp	2
16	502566904	Washer	2
17	449001418	Capscrew	2
18	580050641	Capscrew	2
19	582006484	Hose	1
20	580052324	Adapter (Suction)	1
20	052645700	O-Ring	1
21	580083459	Gear Pump (☞P22083 [Page 11-4]).....	1
22	580019817	Fitting	1
23	582012925	Hose Assy	1
24	580019819	Fitting	1
25	502056904	Clamp (Hose) (Alternate Part)	1
26	502056901	Clamp (Alternate Part)	1
	a 520042831	Adhesive	AR

FOOTNOTES:

a Not Illustrated

GEAR PUMP ASSEMBLY (FIGURE 11-2)



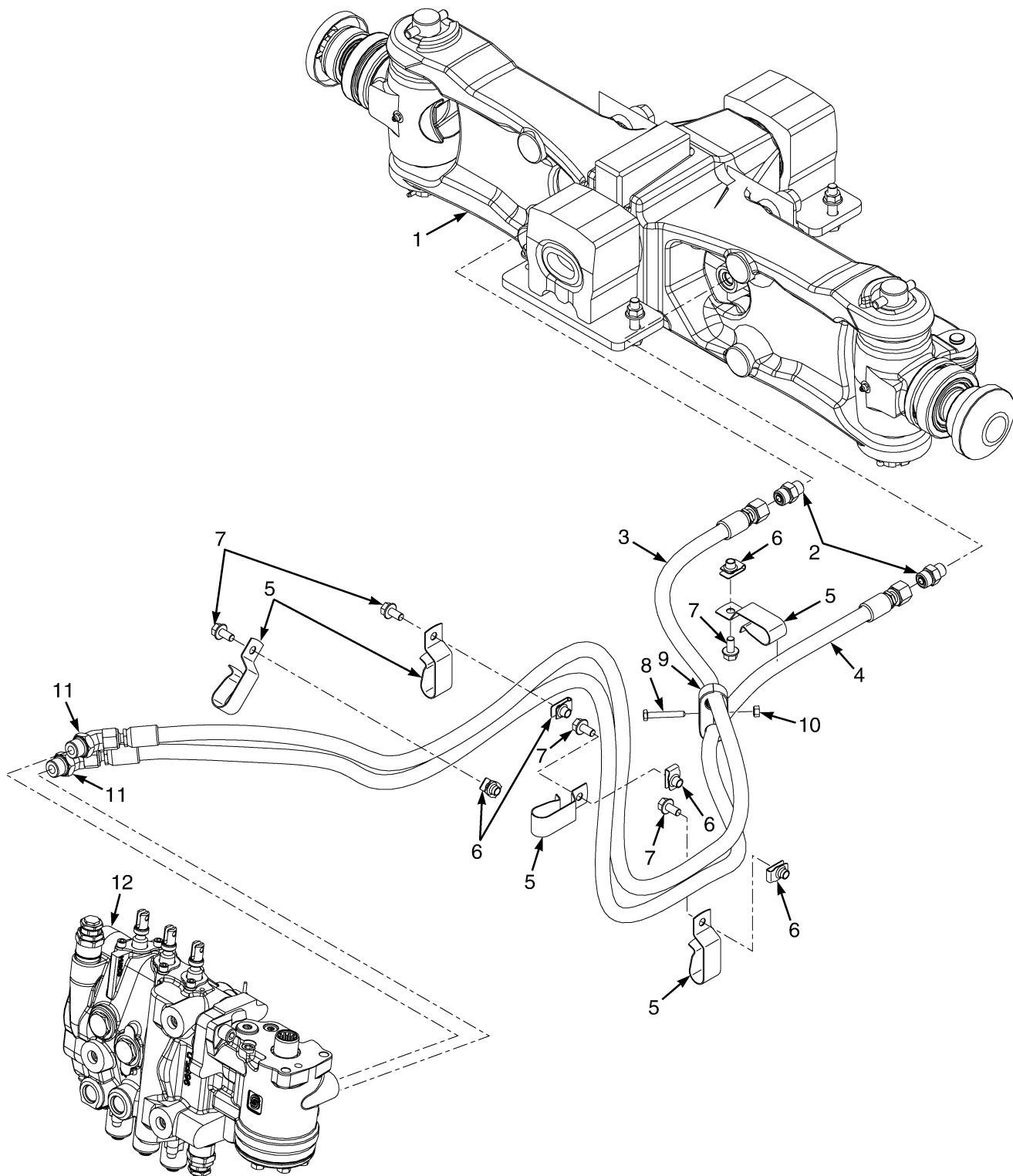
BP150212



GEAR PUMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	580083459	Gear Pump	1
1	.....	Gear Plate	1
2	.....	Drive Gear	1
3	.....	Driven Gear	1
4	580055594	Flange	1
5	580054026	Cover	1
6	580054029	Side Plate	2
7	.....	Plate Seal	2
8	.....	Back-Up Ring	2
9	.....	Oil Seal	1
10	.....	Snap Ring	1
11	580054027	Screw	4
12	580054028	Dowel	4
	580057490	Gear Set	1
	580012159	Kit-Seal	1

HYDRAULIC HOSES (FIGURE 11-3) STEERING



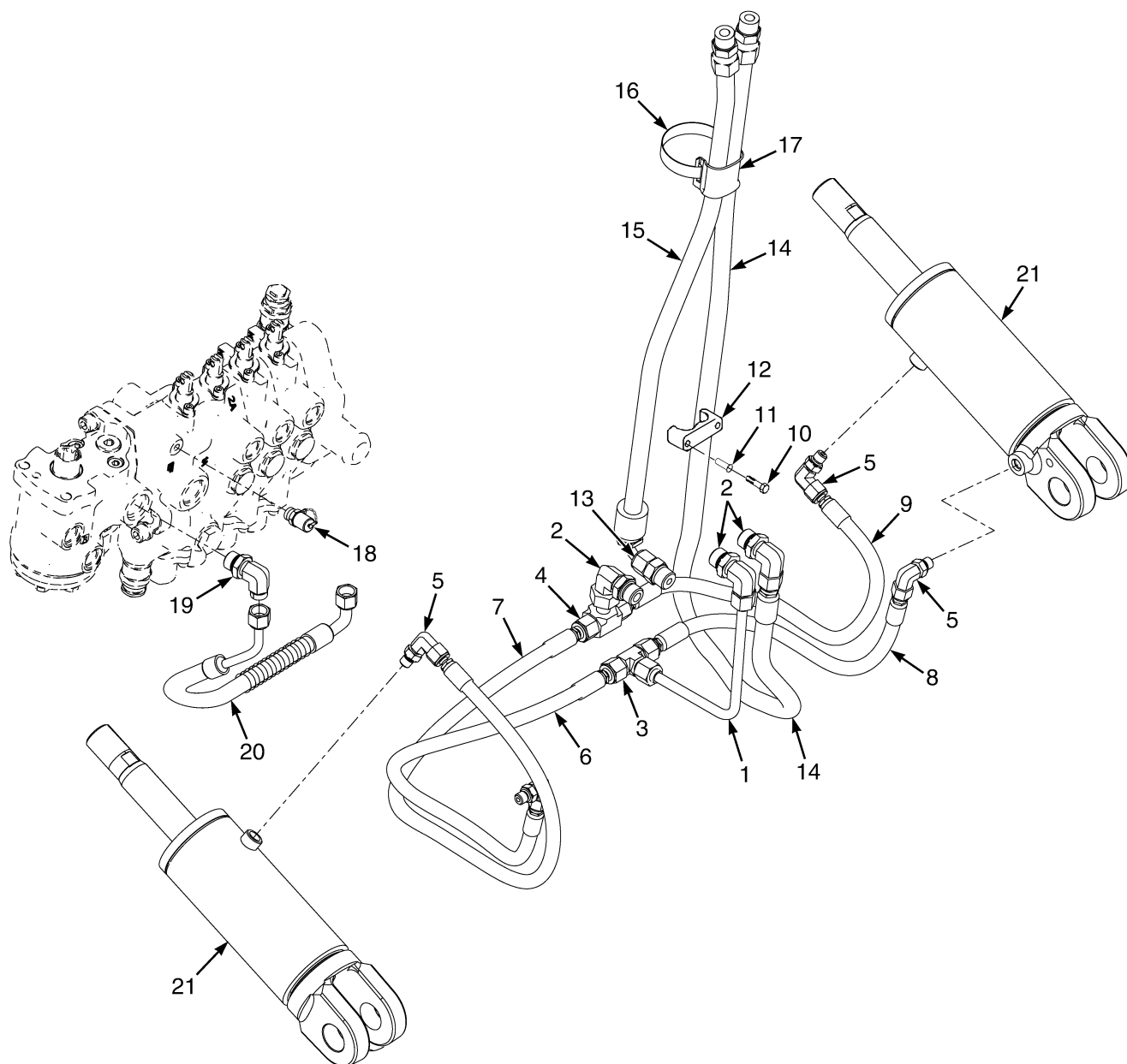
BP150379



HYDRAULIC HOSES STEERING

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Steer Axle (☞P22031 [Page 9-8]).....	1
2	580019808	Fitting	2
3	582001948		
	582013061	Hose Assy	1
4	582001947		
	582013060	Hose Assy	1
5	580045558	Clip	6
6	580026621	Nut	6
7	580047714	Capscrew	6
8	449001204	Capscrew	1
9	580096725	Hose Clamp	1
10	504231270	Nut	1
11	580039349	Fitting	2
11	582010105	Fitting (Alternate Part)	2
12	.....	Hydraulic Control Valve (☞P21983 [Page 11-16]).....	1

TILT AND AUXILIARY HOSES (FIGURE 11-4)



BP150391



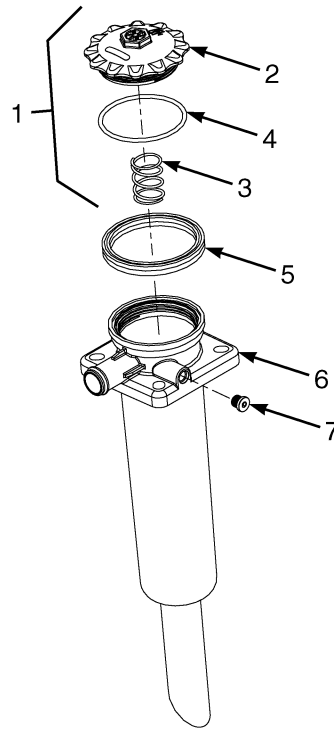
TILT AND AUXILIARY HOSES

ITEM	PART NO.	DESCRIPTION	QTY
1	580046577	Tube Assy (Supply)	1
2	580055804	Fitting	3
2	580039386	O-Ring	1
2	052645300	O-Ring	1
3	580039365	Fitting	1
4	580020468	Fitting	1
5	580019860	Fitting	4
6	580047454	Hose Assy (Tilt Hose)	1
6	580046576	Hose Assy (Tilt Hose) (Alternate)	1
7	582005712	Hose Assy (Tilt Hose)	1
8	582005714	Hose Assy (Tilt Hose)	1
9	582005713	Hose Assy (Tilt Hose)	1
10	580024707	Capscrew	2
11	580041704	Insert	2
12	580087631	Clamp	1
13	580019810	Fitting	1
14	580055585	Hose Assy (Third Function)	1
15	580045323	Hose Assy (Third Function)	1
16	524141696	Hose Clamp	1
17	580068221	Clamp	1
18	580041208	Fitting (Diagnostic)	1
19	580019871	Fitting	1
20	582005715	Hose Assy (Hoist Hose)	1
21	.....	Tilt Cylinder (RH) (☞P21981 [Page 11-12]).....	1
21	.....	Tilt Cylinder (LH) (☞P21981 [Page 11-12]).....	1
	a 580039425	Fitting	2
	a 580047941	Plug	1

FOOTNOTES:

a Not Illustrated

HYDRAULIC FILTER HOUSING (FIGURE 11-5)



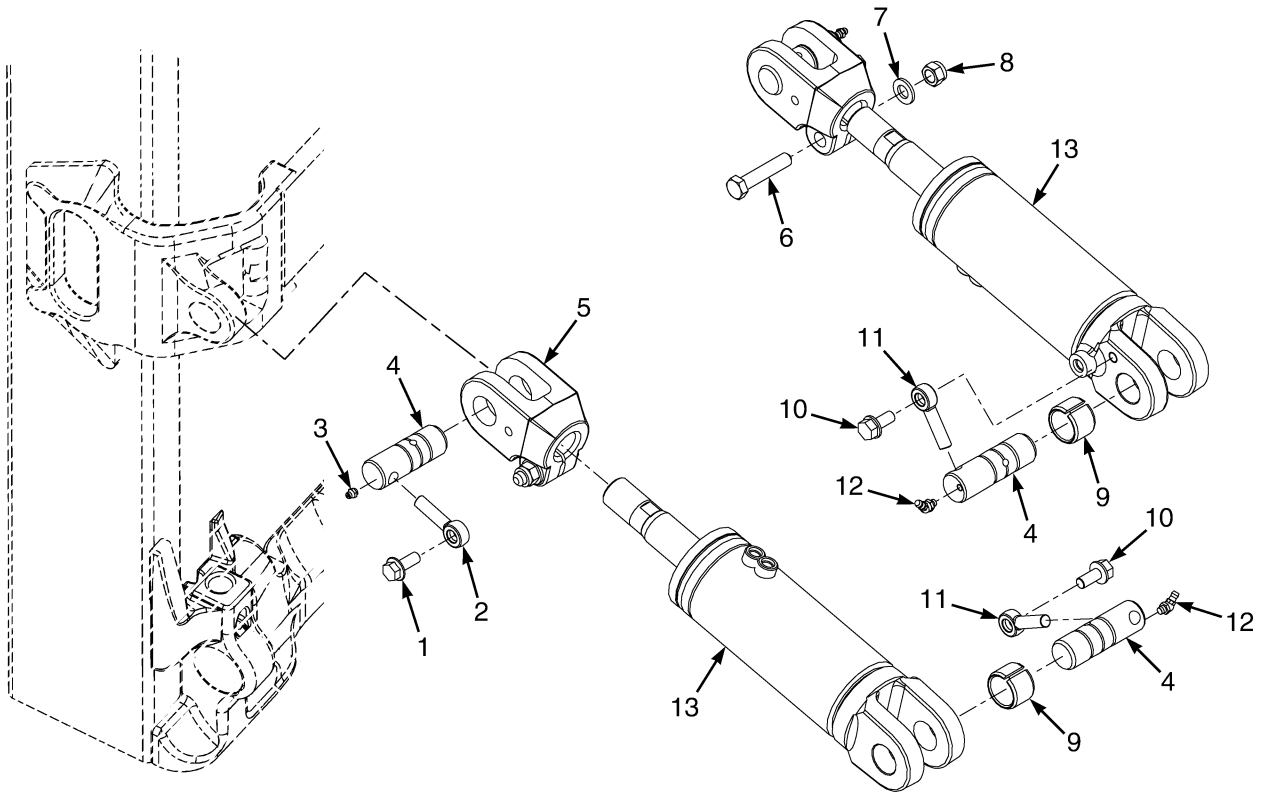
BP150392

ITEM	PART NO.	DESCRIPTION	QTY
	582002952	Hydraulic Filter Housing Assembly	1
	582000047	Hydraulic Filter Assembly (Alternate Part)	1
1	580087580	Cover Assembly	1
1	582000079	Hydraulic Filter (Head Assembly)(Alternate Part)	1
2	.....	Lid	1
2	580052951	Filter Head (Alternate Part)	1
3	.....	Spring	1
4	.....	Seal	1
5	.....	Quad Ring	1
6	582005523	Bowl	1
6	582000048	Hydraulic Filter (Bowl Assembly) (Alternate Part)	1
6	580052955	Filter Can (Alternate Part)	1
6	582002947	Filter (Alternate Part)	1
7	315976062	Fitting	1
	580087581	Kit-Seal	1
a	580084426	Element (Filter)	1
a	580027573	Nut (Flange)	1

FOOTNOTES:

a Not Illustrated

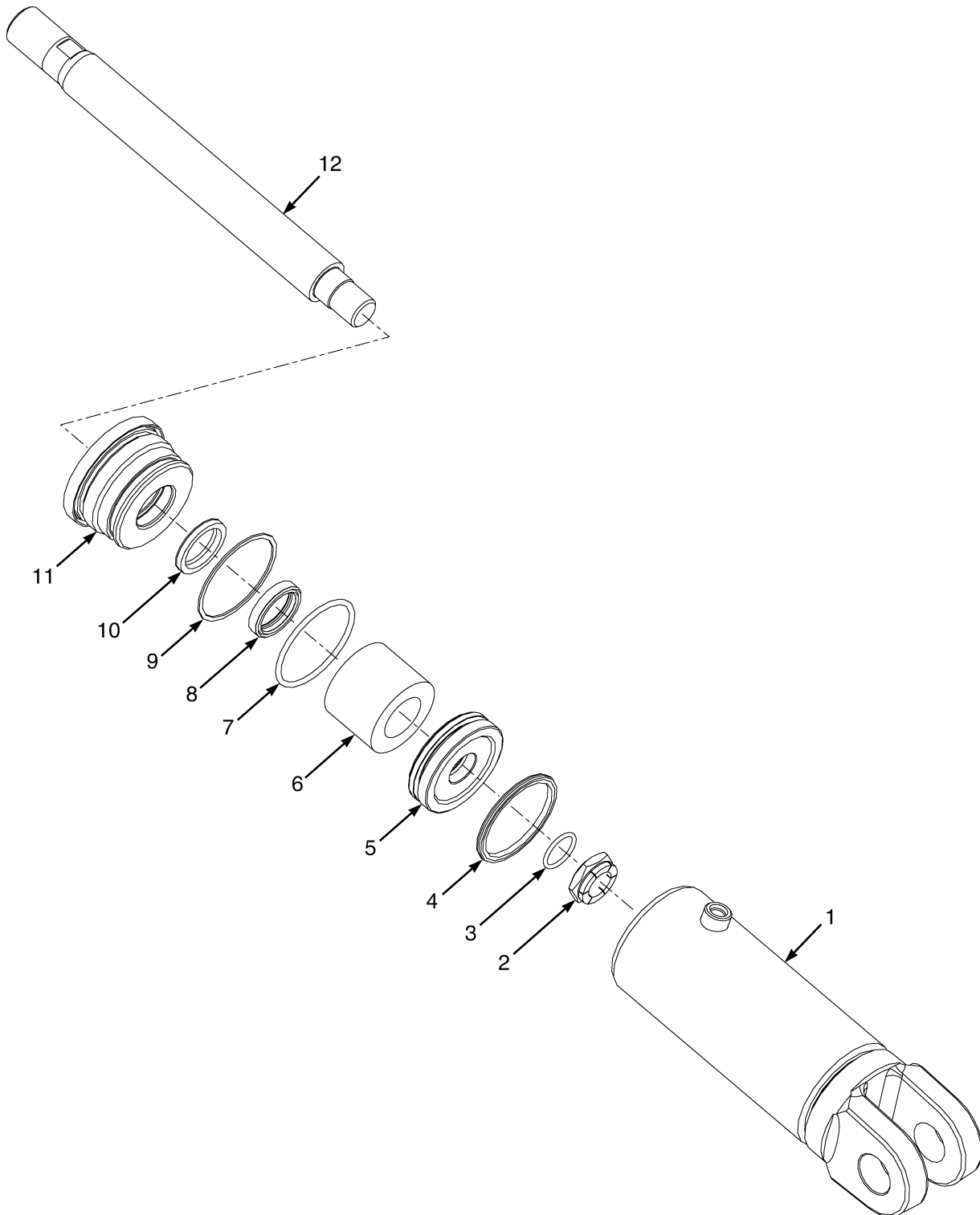
TILT CYLINDER AND MAST INSTALLATION (FIGURE 11-6)



BP150381

ITEM	PART NO.	DESCRIPTION	QTY
1	580030970	Capscrew	2
2	580040489	Pin Anchor	4
3	015628700	Grease Fitting	2
4	582001797	Pin	2
5	582001796	Rod End	2
6	580061352	Capscrew	2
7	580056005	Washer	2
8	580056000	Nut	2
9	504229225	Bushing	2
10	580058009	Capscrew	2
11	582001957	Pin	2
12	015630900	Grease Fitting	2
13	.....	Tilt Cylinder (P21981 [Page 11-12]).....	2

TILT CYLINDER ASSEMBLY (FIGURE 11-7)



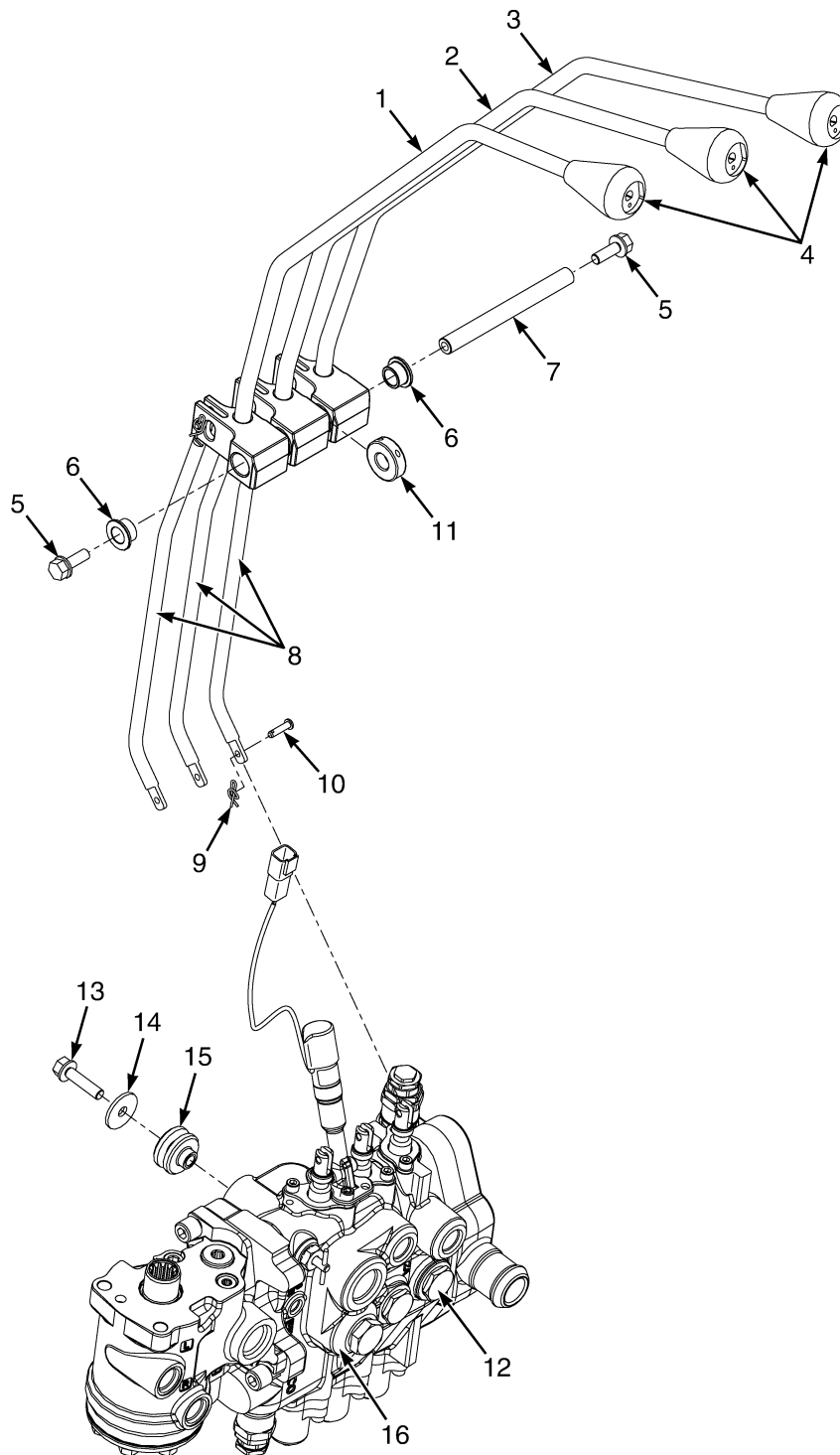
BP230004



TILT CYLINDER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	582001484	Tilt Cylinder	2
1	524172607	Tube Wldmt-Cylinder	1
2	502637902	Locknut	1
4	504305701	Piston Seal	1
5	506002500	Piston	1
6	506986116	Spacer	1
7	015493400	O-Ring	1
8	580022505	Rod Seal	1
9	502011914	Back-Up Ring	1
10	580022514	Rod Wiper	1
11	518852600	Gland	1
12	.....	Cylinder Rod	1
	504234269	Lubricant	AR

HAND LEVERS (FIGURE 11-8) 2 AND 3 FUNCTION



BP150382

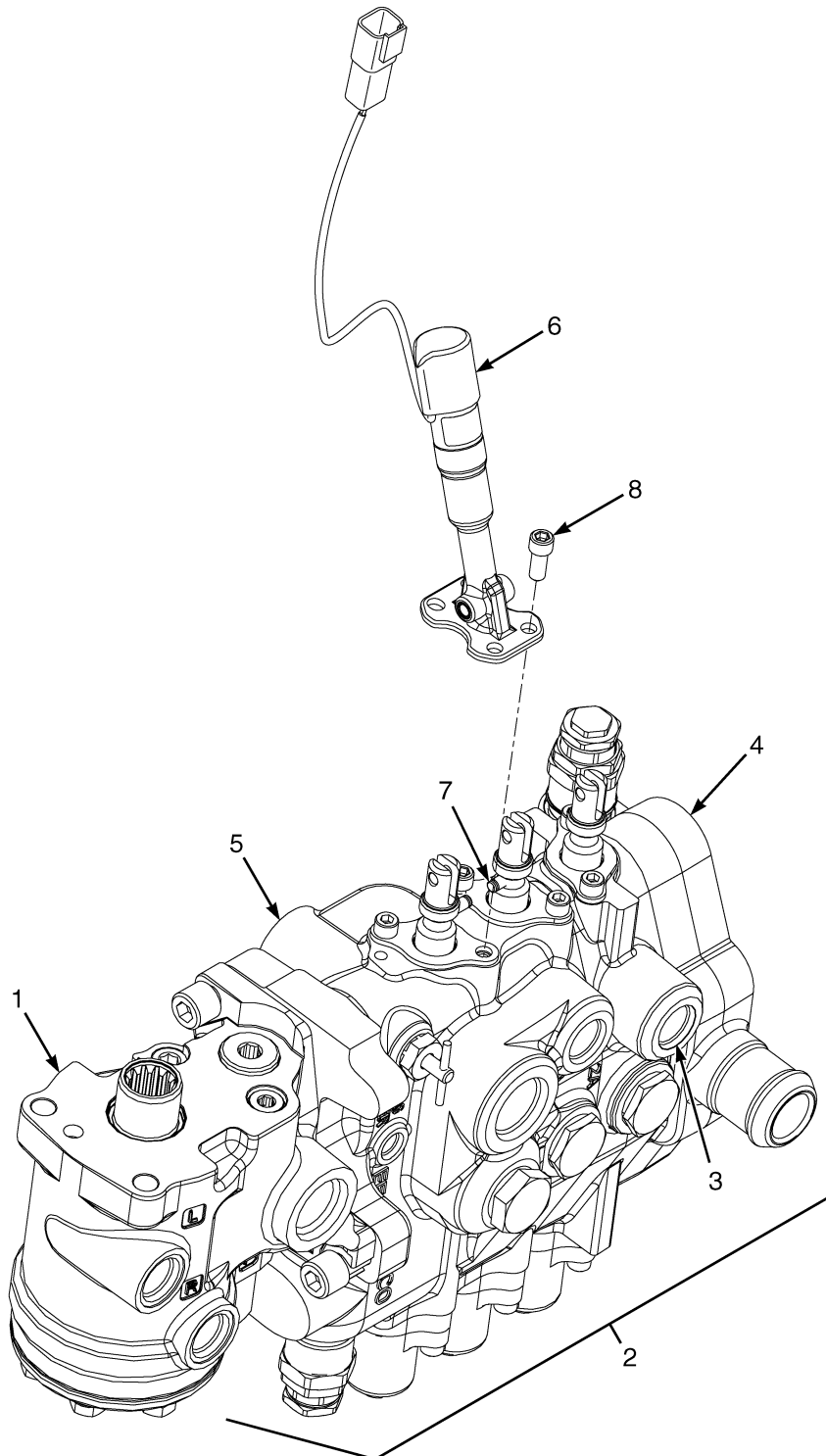


HAND LEVERS 2 AND 3 FUNCTION

KEY:**A: 2 Lever/Function****B: 3 Lever/Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	580084411	Lever	1	1
2	580084412	Lever (Tilt)	1	1
3	580084413	Lever	..	1
4	580056844	Knob	2	3
5	580056815	Capscrew	2	2
6	580050978	Bushing	4	6
7	580085082	Shaft (Pivot)	1	1
8	580083423	Link	2	3
9	580056840	Locking Ring Cotter Pin	4	6
10	500583902	Pin	4	6
11	580003145	Collar	1	..
12	505967551	Fitting	2	..
13	580058269	Capscrew	3	3
14	580056666	Washer	3	3
15	580044129	Isolator	3	3
16	580090439	Hydraulic Control Valve (Manual) (P21983 [Page 11-16]).....	1	1

HYDRAULIC CONTROL VALVE (FIGURE 11-9)
MANUAL — 3 FUNCTION

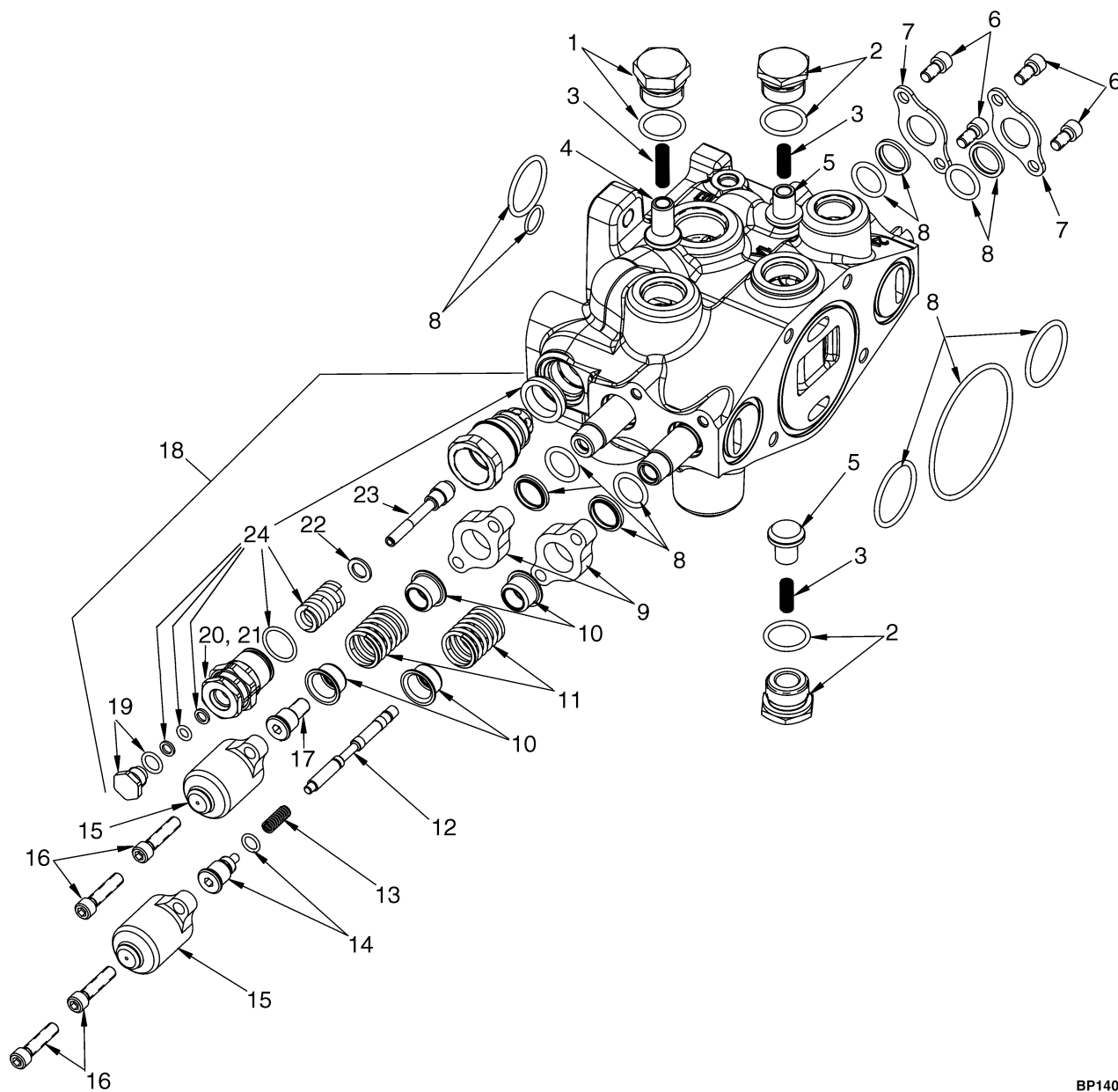


BP150384

**HYDRAULIC CONTROL VALVE
MANUAL – 3 FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	580090439	Hydraulic Control Valve (Manual)	1
1	580037270	Steering Control Unit	1
2	580090449	Hydraulic Control Valve	1
3	580085165	Valve Section (Aux.) (☞ P21985 [Page 11-20]).....	1
4	580054062	Valve Section (Outlet) (☞ P21986 [Page 11-22]).....	1
5	580094926	Valve Section (Lift And Tilt) (☞ P21984 [Page 11-18]).....	1
6	580088718	Solenoid Assembly (Double Function)	1
7	580085134	Needle Roller	2
8	580052297	Capscrew	2

VALVE ASSEMBLY, LIFT AND TILT (FIGURE 11-10)
MANUAL CONTROL VALVE — THREE FUNCTION



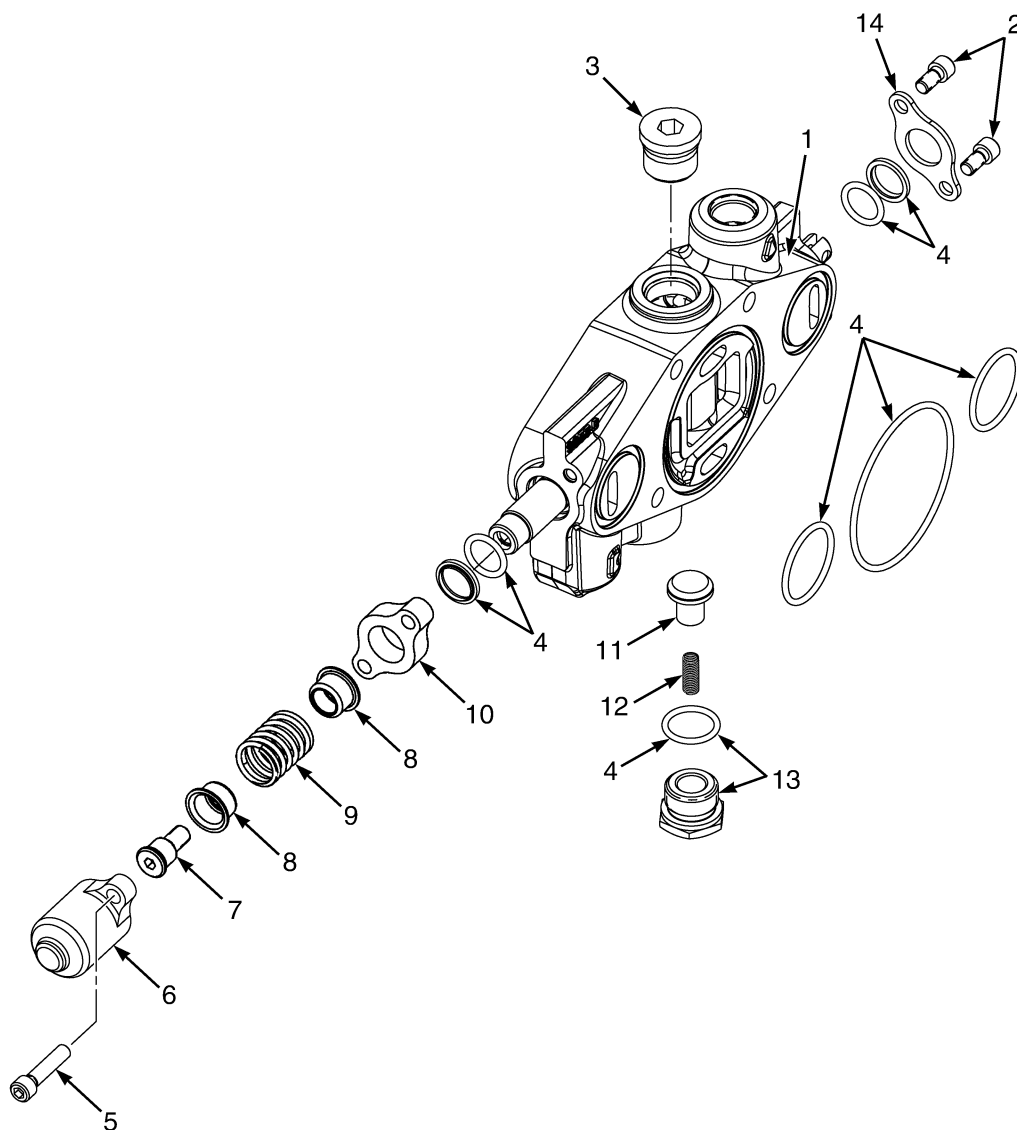
BP140046



**VALVE ASSEMBLY, LIFT AND TILT
MANUAL CONTROL VALVE – THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	580094926	Valve Section (Lift And Tilt)	1
1	580054052	Plug	2
2	580054462	Plug	1
3	580006977	Spring	3
4	580054465	Poppet	1
5	580006976	Poppet	2
6	502635907	Screw	4
7	580049294	Plate	2
8	580085146	Kit-Seal (Lift and Tilt)	1
9	580062938	Plate	2
10	504230236	Spring Seat	4
11	580056023	Spring	2
12	580056024	Piston	1
13	504230207	Spring	1
14	580056877	Spool End	1
15	580054869	Cap	2
16	580072235		
	580054044	Capscrew	4
17	580056022	Spool End	1
18	580054063	Relief Valve (3100 PSI) (Main Relief) (Low Relief)	1
18	580054064	Relief Valve (3400 PSI) (Main Relief) (High Relief)	1
19	.....	Plug	1
20	.....	Screw	1
21	.....	Nut	1
22	.....	Washer	1
23	.....	Poppet	1
24	580054672	Kit-Seal	1

VALVE ASSEMBLY, AUXILIARY (FIGURE 11-11)
MANUAL CONTROL VALVE — THREE FUNCTION



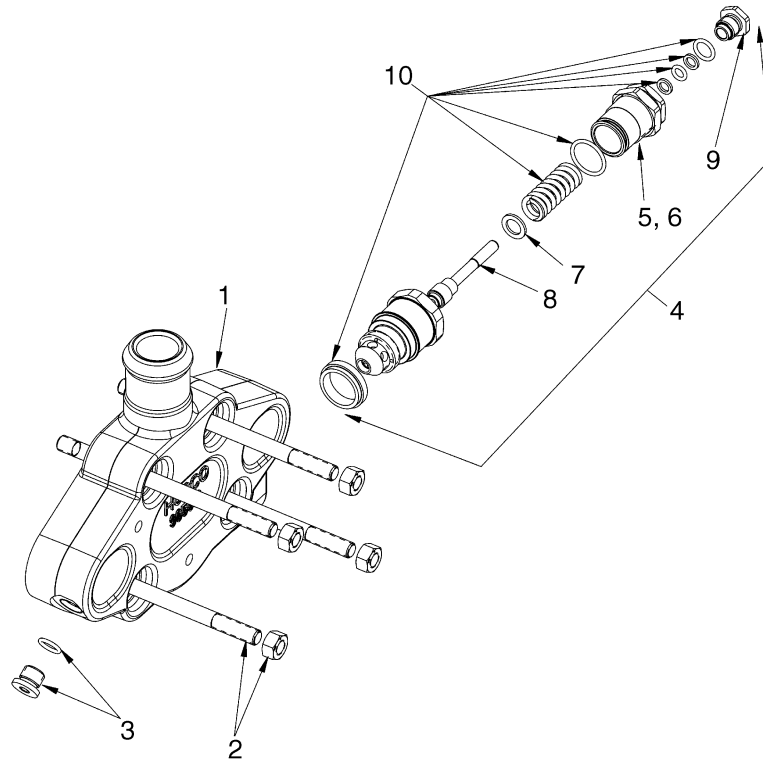
BP150383



**VALVE ASSEMBLY, AUXILIARY
MANUAL CONTROL VALVE – THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	580085165	Valve Section	1
2	502635907	Screw	2
3	580054053	Plug	1
4	580054689	Kit-Seal (Auxiliary Functions)	1
5	580072235 580054044	Capscrew	2
6	580054869	Cap	1
7	580056022	Spool End	1
8	504230236	Spring Seat	2
9	580056023	Spring	1
10	580062938	Plate	1
11	580006976	Poppet	1
12	580006977	Spring	1
13	580054052	Plug	1
14	580049294	Plate	1
	580085142	Kit-Seal (Three Function)	1

VALVE ASSEMBLY, OUTLET SECTION (FIGURE 11-12)
MANUAL CONTROL VALVE — THREE FUNCTION



BP140048

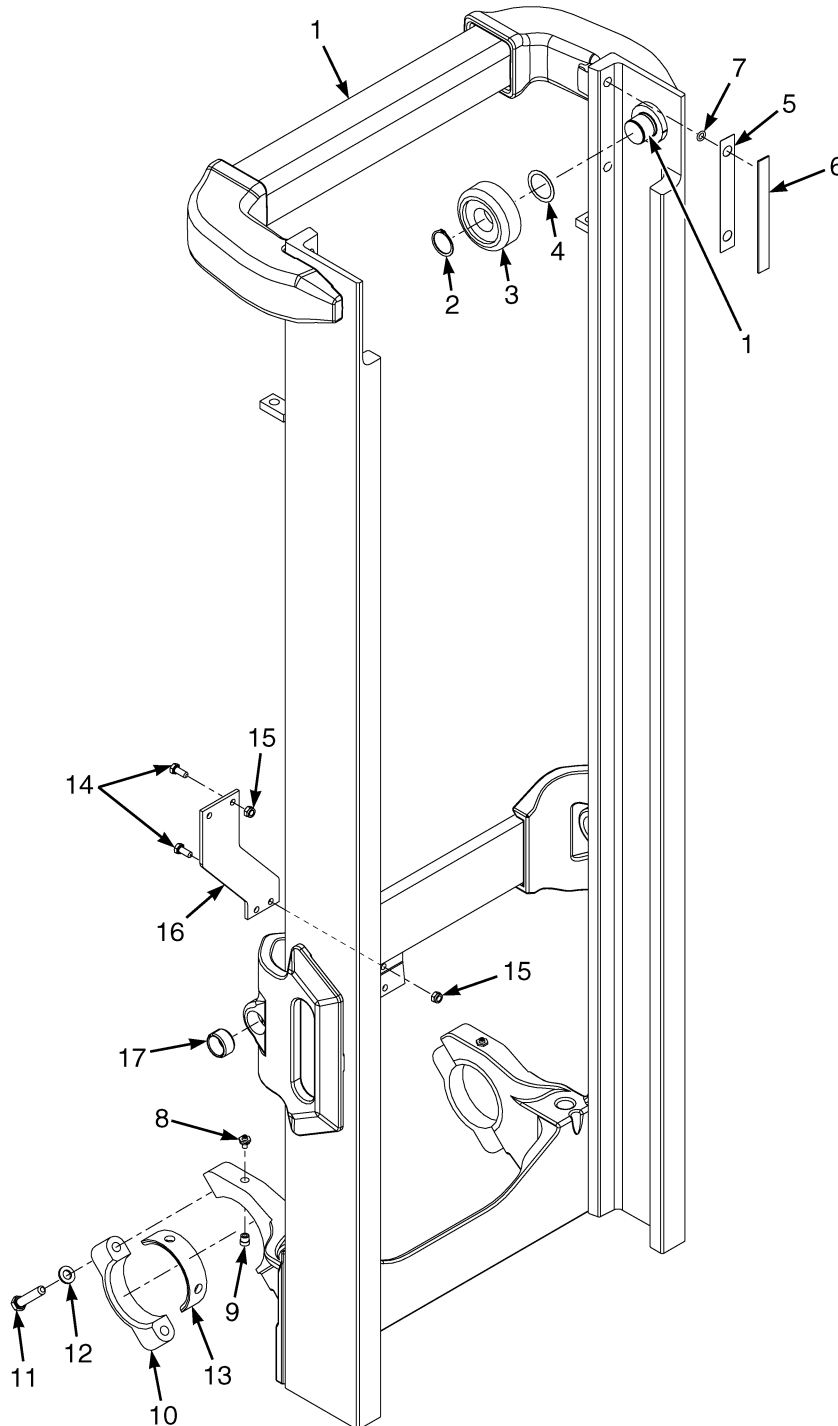
ITEM	PART NO.	DESCRIPTION	QTY
1	580054062	Valve Section	1
2	580055166	Kit-Tie Rod (Three Function)	1
2	014936600	Nut	4
3	.....	Plug	1
4	580054046	Relief Valve (2250 PSI) (Secondary)	1
5	.....	Nut	1
6	.....	Screw	1
7	.....	Washer	1
8	.....	Poppet	1
9	.....	Plug	1
10	580054684	Kit-Seal	1



SECTION 12

MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-18
FREE LIFT CYLINDER ASSEMBLY	
THREE STAGE FULL FREE LIFT	12-16
HEADER HOSE AND ATTACHING PARTS	
3 FUNCTION	12-20
MAIN LIFT CYLINDER ASSEMBLY	
THREE STAGE FULL FREE LIFT	12-12
MAST ASSEMBLY	
INNER MAST AND FREE-LIFT	12-8
INTERMEDIATE MAST AND MAIN LIFT	12-4
OUTER MAST	12-2



BP170452



MAST ASSEMBLY OUTER MAST

A698

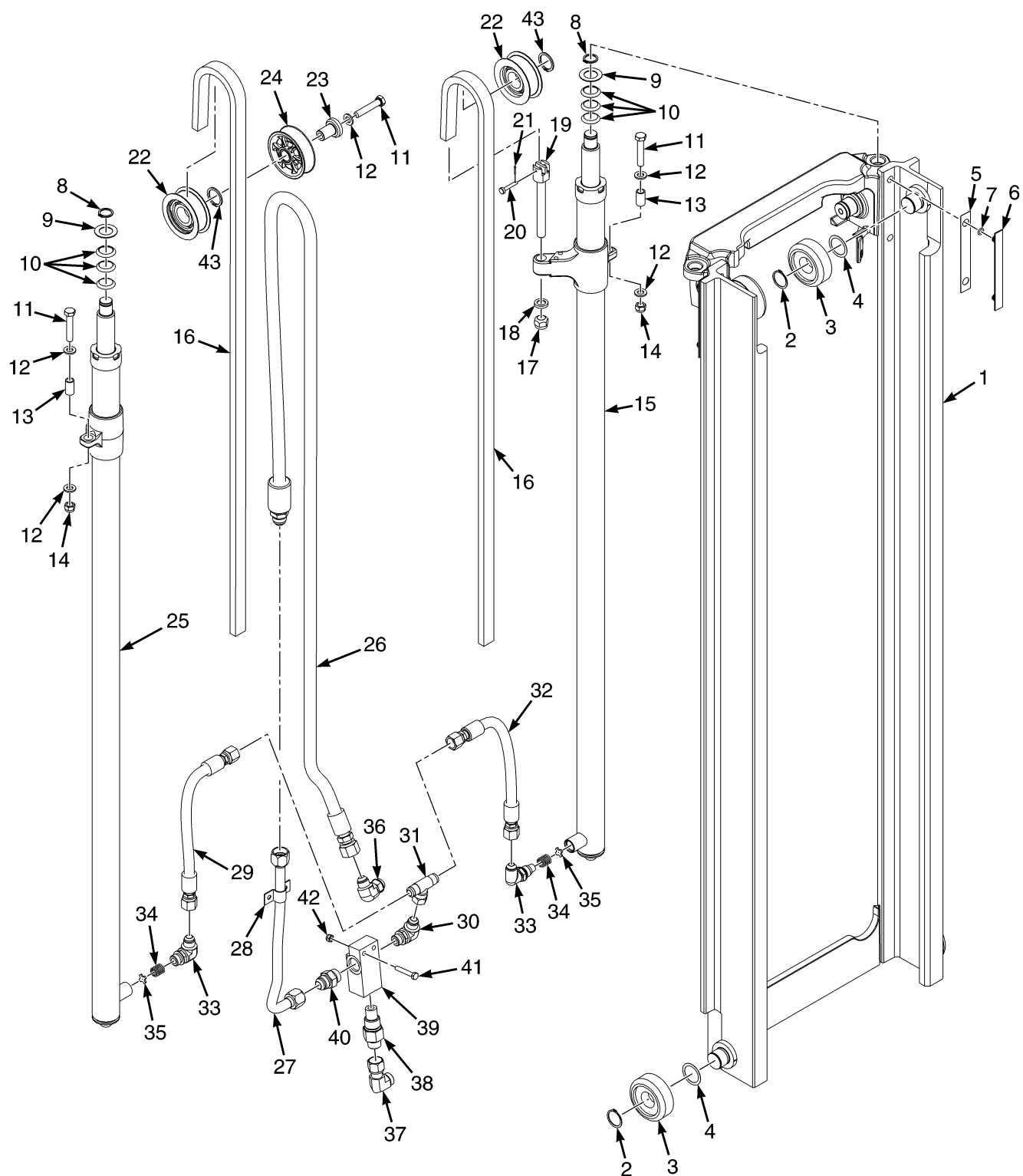
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Mast Assy	582007264	582007265	582010150
1	Outer Mast	582007251	582007252	582007253

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
1	504066700	Stubshaft	2
2	015916300	Snap Ring	1
3	580001430	Load Roller ("A") (3.61 in./3.60 in.)	2
3	520036852	Load Roller ("B") (3.63 in./3.62 in.)	2
3	520036848	Load Roller ("C") (3.67 in./3.66 in.)	2
4	504233232	Shim (0.020 in.)	AR
5	504234265	Shim (0.020 in.)	AR
6	504075764	Wear Strip	2
7	012824300	O-Ring	2
8	520051893	Grease Fitting	2
9	524197919	Plug	2
10	582006737	Trunnion	2
11	580061352	Capscrew	4
12	580056005	Washer	4
13	582005921	Bushing	2
14	580055733	Capscrew	2
15	580055651	Nut	4
16	582006766	Plate	1
17	900003277	Bushing	2

FOOTNOTES:

a Refer to Table

MAST ASSEMBLY (FIGURE 12-2) **INTERMEDIATE MAST AND MAIN LIFT**



BP170451



MAST ASSEMBLY INTERMEDIATE MAST AND MAIN LIFT

A698

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Mast Assy	582007264	582007265	582010150
1	Intermediate Mast	504070754	582007346	504073748
15	Cylinder Assy (LH)	582007415	582007414	582007413
16	Chain	504064781	900002264	518791631
25	Cylinder Assy (RH)	582007416	582007412	582007411
26	Hose Assy	582001645	582001646	582001647

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Intermediate Mast	1
1	504066700	Stubshaft	4
2	015916300	Snap Ring	4
3	580001430	Load Roller ("A") (3.61 in./3.60 in.)	4
3	520036852	Load Roller ("B") (3.63 in./3.62 in.)	4
3	520036848	Load Roller ("C") (3.67 in./3.66 in.)	4
4	504233232	Shim (0.020 in.)	AR
5	504234265	Shim (0.020 in.)	2
6	504075764	Wear Strip	2
7	012824300	O-Ring	4
8	500227907	Snap Ring	2
9	504064767	Washer (0.060 in.)	2
10	504064769	Washer (0.010 in.)	2
10	504069791	Washer (0.030 in.)	2
10	504069702	Washer (0.060 in.)	2
11	580055976	Capscrew	3
12	580056005	Washer	5
13	504064739	Spacer	2
14	580056001	Nut	2
15	a	Cylinder Assy (LH)	1
16	a	Chain	1
17	504234266	Nut	2
18	504064758	Ring	2
19	518801644	Chain Anchor	2
20	580033718	Pin	2
21	015415900	Cotter Pin	2
22	504281794	Chain Sheave	2
23	900002259	Stubshaft	1
23	504070732	Stubshaft	1
24	504064782	Hose Sheave	1
25	a	Cylinder Assy (RH)	1
26	a	Hose Assy	1

MAST ASSEMBLY
INTERMEDIATE MAST AND MAIN LIFT

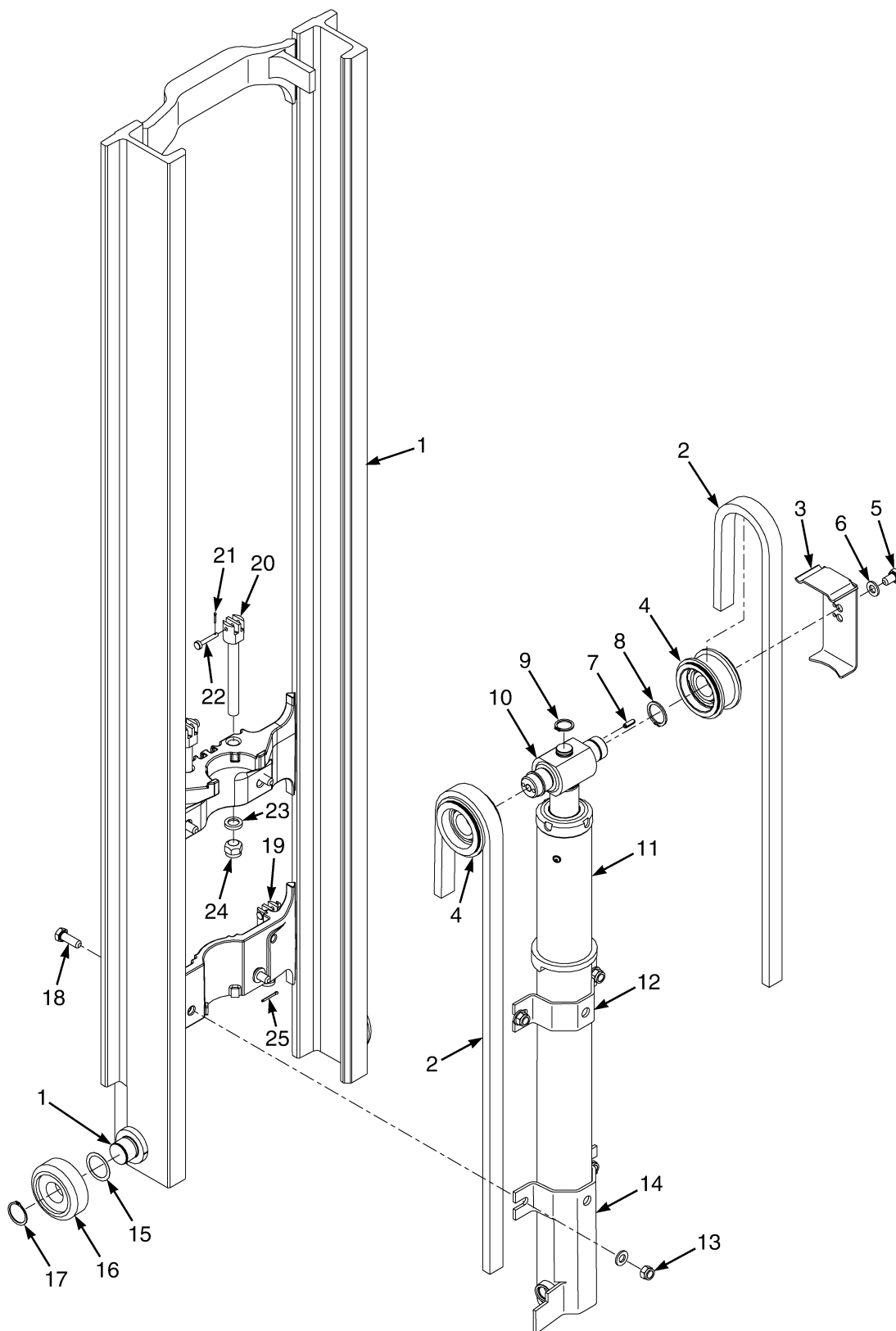
ITEM	PART NO.	DESCRIPTION	QTY
27	518806660	Tube Assy	1
28	900003213	Clamp	1
29	580010912	Hose Assy	1
30	052229600	Fitting	1
31	501801901	Fitting	1
32	504064740	Hose Assy	1
33	504064729	Fitting	2
34	504075776	Spring	2
35	504236253	Washer	2
36	582007601	Valve	1
37	580019838	Fitting	1
38	524141846	Lowering Control Valve	1
39	504064742	Housing (Lowering Control)	1
40	052643500	Connector	1
41	580055736	Capscrew	2
42	580055651	Nut	2
43	500227910	Snap Ring	2

FOOTNOTES:

a Refer to Table

[illegible]

MAST ASSEMBLY (FIGURE 12-3)
INNER MAST AND FREE-LIFT



BP170450



MAST ASSEMBLY INNER MAST AND FREE-LIFT

A698

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
		A698 4285	A698 4735	A698 5035
	Mast Assy	582007264	582007265	582010150
1	Inner Mast	504073788	582010094	504073759
2	Chain	504064745	504075721	900002253
11	Cylinder Assy	582007288	582007289	582007290

KEY:

A: w/ 3rd Function Header Hose

B: w/o 3rd Function Header Hose

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Mast Assy	1	1
1	a	Inner Mast	1	1
1	504066700	Stubshaft	4	4
2	a	Chain	1	1
3	504301785	Chain Guard	1	2
4	504281796	Chain Sheave Assembly	1	1
4	504281799	Chain Sheave	2	2
4	500343914	Snap Ring	1	1
4	520040899	Ball Bearing	1	1
5	580055742	Capscrew	1	2
6	580056005	Washer	5	6
7	449034054	Roll Pin	1	2
8	500227910	Snap Ring	2	2
9	500227907	Snap Ring	2	2
10	504281795	Crosshead	1	1
11	a	Cylinder Assy	1	1
12	580024920	Bracket	1	1
13	580056001	Nut	4	4
14	580053612	Guard	1	1
15	504233232	Shim (0.020 in.)	2	2
16	580001430	Load Roller ("A") (3.61 in./3.60 in.)	2	2
16	520036852	Load Roller ("B") (3.63 in./3.62 in.)	2	2
16	520036848	Load Roller ("C") (3.67 in./3.66 in.)	2	2
17	015916300	Snap Ring	2	2
18	580090840	Capscrew	4	4
19	504075767	Chain Anchor	2	2
20	518801644	Chain Anchor	2	2
21	015415900	Cotter Pin	4	4
22	580033718	Pin	4	4
23	504064758	Ring	4	4
24	504234266	Nut	4	4



P22006 05-10

**MAST ASSEMBLY
INNER MAST AND FREE-LIFT**

KEY:

A: w/ 3rd Function Header Hose

B: w/o 3rd Function Header Hose

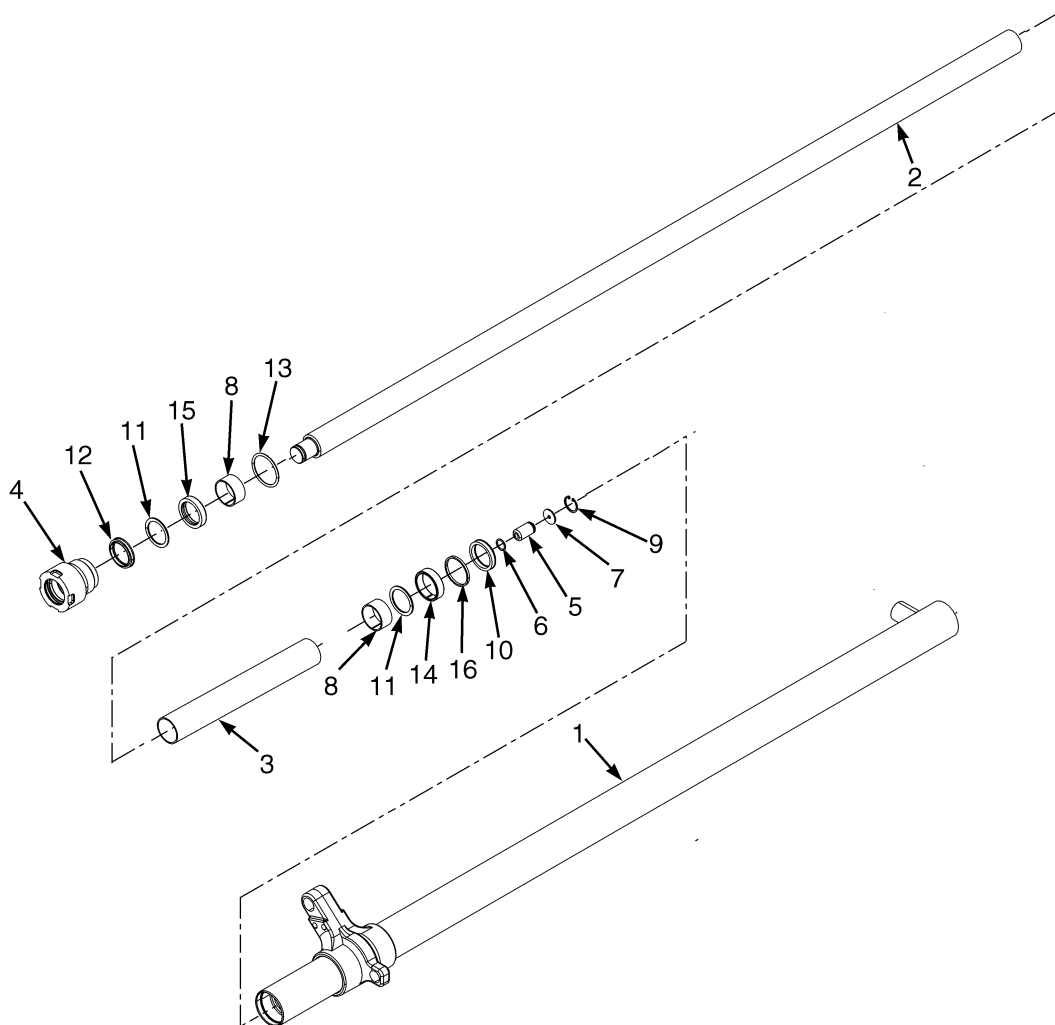
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
25	449025042	Cotter Pin	2	2

FOOTNOTES:

a Refer to Table

[illegible]

MAIN LIFT CYLINDER ASSEMBLY (FIGURE 12-4)
THREE STAGE FULL FREE LIFT



BP170151



MAIN LIFT CYLINDER ASSEMBLY THREE STAGE FULL FREE LIFT

LEFT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8803211	8803212	8803213
	Cylinder Assy	582007415	582007414	582007413
1	Tube Wldmt- Cylinder	519529638	519529639	519529640
2	Rod	519528670	519528671	519528672
3	Spacer	505657543	505657543	505657543

RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8803214	8803215	8803216
	Cylinder Assy	582007416	582007412	582007411
1	Tube Wldmt- Cylinder	519529688	519529689	519529690
2	Rod	519528670	519528671	519528672
3	Spacer	505657543	505657543	505657543

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	a	Tube Wldmt-Cylinder	1
2	a	Rod	1
3	a	Spacer	1
4	506845500	Gland	1
5	504235239	Check Valve	1
6		O-Ring	1
7	504148200	Washer	1
8	518794659	Wear Ring	1
9	501850904	Snap Ring	1
10	504153200	Rod Seal	1
11	504154200	Back-Up Ring	2
12	504163200	Rod Wiper	1
13	012825700	O-Ring	1
14	504024201	Wear Ring	1



P22007 06-10

**MAIN LIFT CYLINDER ASSEMBLY
THREE STAGE FULL FREE LIFT**

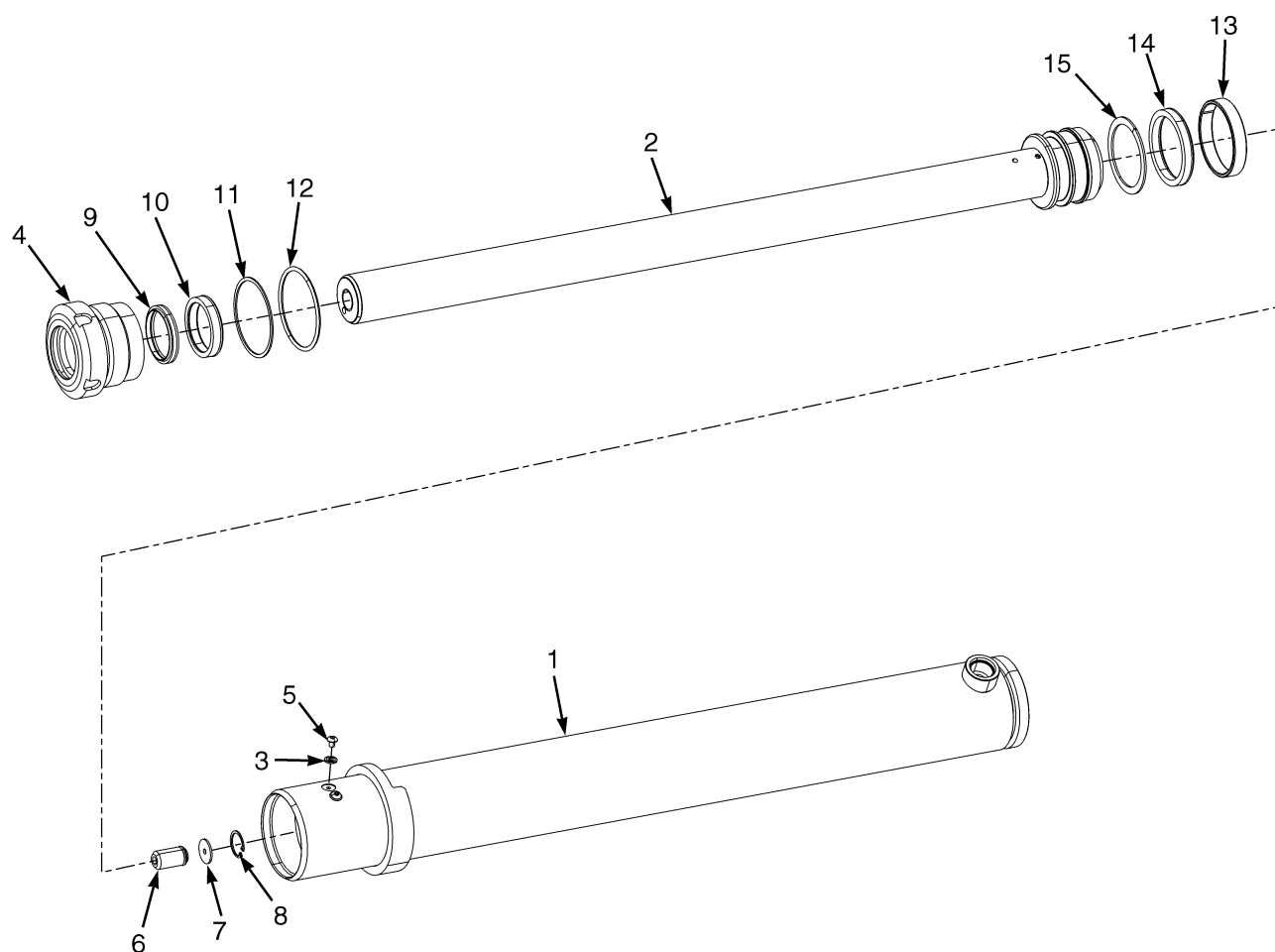
ITEM	PART NO.	DESCRIPTION	QTY
15	580022502	Rod Seal	1
16	502895202	Piston Ring	1
	504234269	Lubricant	1
	505136042	Kit-Seal	1

FOOTNOTES:

a Refer to Table

[illegible]

FREE LIFT CYLINDER ASSEMBLY (FIGURE 12-5)
THREE STAGE FULL FREE LIFT



BP170170



FREE LIFT CYLINDER ASSEMBLY THREE STAGE FULL FREE LIFT

A698

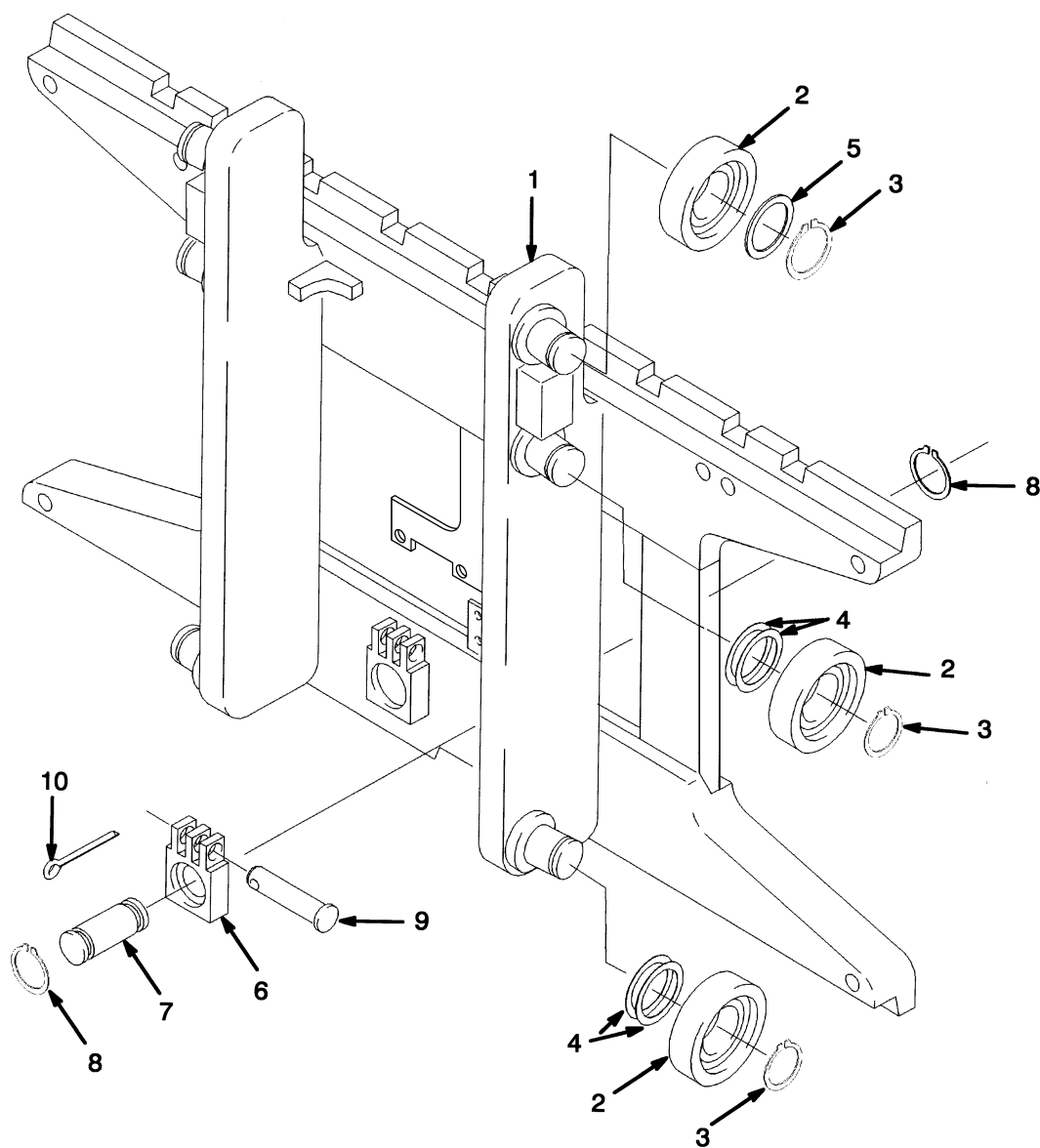
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8601941	8601942	8601943
	Cylinder Assy	582007288	582007289	582007290
1	Tube Wldmt- Cylinder	519541646	519541647	519541648
2	Rod Assy	519540641	519540642	519540643

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	a	Tube Wldmt-Cylinder	1
2	a	Rod Assy	1
3	502687901	Sealing Ring	1
4	519537600	Gland	1
5	501753904	Screw	1
6	580067209	Check Valve	1
7	504148200	Washer	1
8	501850904	Snap Ring	1
9	580077907	Rod Wiper	1
10	582006661	Rod Seal	1
11	502011903	Back-Up Ring	1
12	015493200	O-Ring	1
13	504024207	Wear Ring	1
14	504232205	Rod Seal	1
15	504232277	Back-Up Ring	1
	504234269	Lubricant	1
	505136049	Kit-Seal	1

FOOTNOTES:

a Refer to Table

CARRIAGE (FIGURE 12-6)
THREE STAGE FULL FREE-LIFT



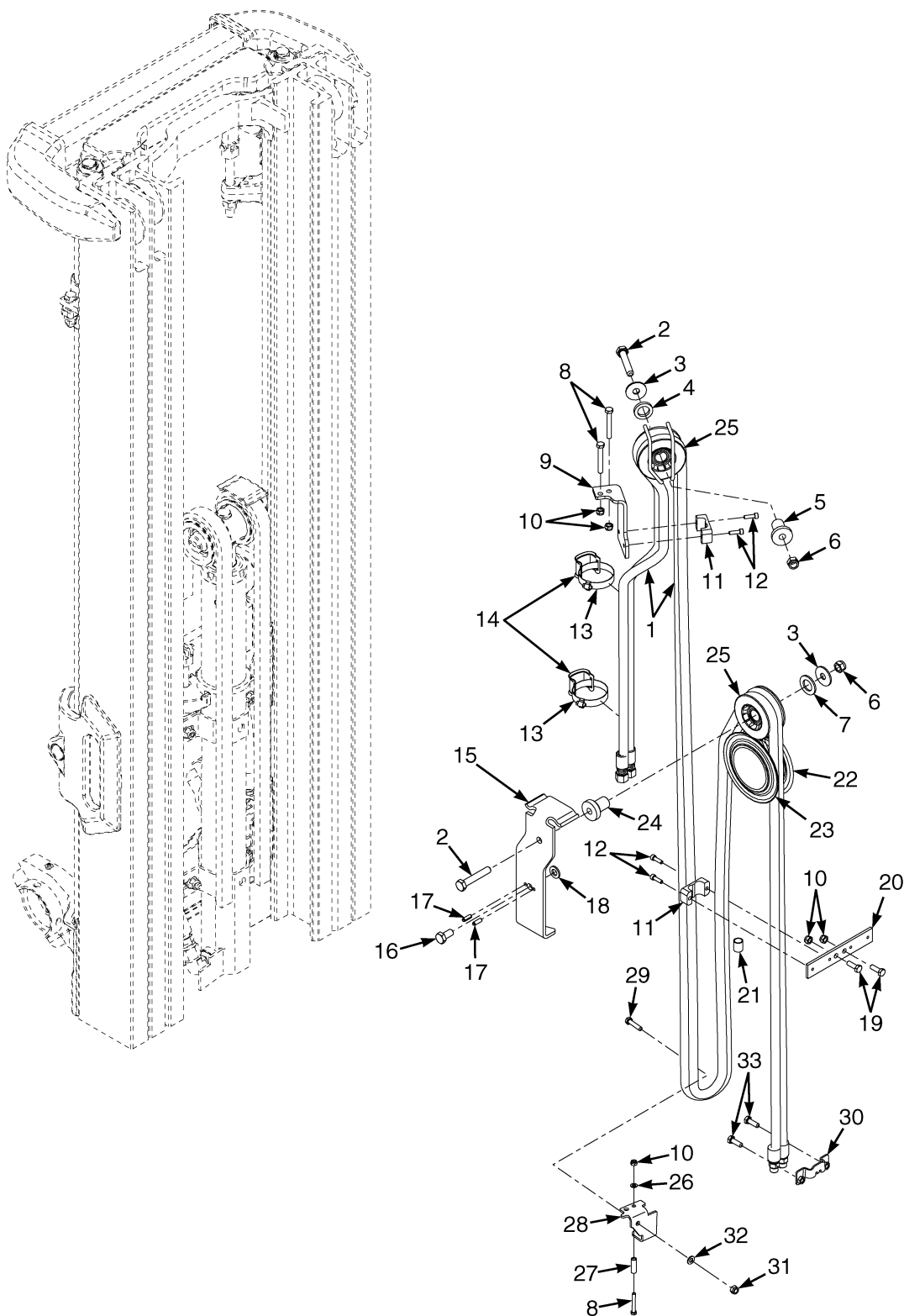
HP170506



CARRIAGE THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	582002031	Carriage	1
1	.....	Carriage Wldmt	1
1	504066700	Stubshaft	6
2	518797634	Load Roller (3.24 in.)	6
2	580001435	Load Roller ("A") (3.22 in.)	6
3	015916300	Snap Ring	6
4	504233232	Shim (0.020 in.)	AR
5	504235278	Spacer	2
6	505978544	Chain Anchor (Dual Hole)	1
6	580027878	Chain Anchor (Single Hole) (Optional)	1
7	504071702	Pin	2
8	500227907	Snap Ring	4
9	580033718	Pin (Chain Anchor)	2
10	015415900	Cotter Pin	2

HEADER HOSE AND ATTACHING PARTS (FIGURE 12-7) 3 FUNCTION



BP170521



HEADER HOSE AND ATTACHING PARTS 3 FUNCTION

A698

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
		A698 4285	A698 4735	A698 5035
1	Hose	582001761	582001762	582001763

ITEM	PART NO.	DESCRIPTION	QTY
1	a	Hose	1
2	580055977	Capscrew	2
3	504070716	Washer	2
4	505962533	Spacer	1
5	504301779	Stubshaft	1
6	580056001	Nut	2
7	580055636	Washer	1
8	580055983	Capscrew	3
9	504301776	Bracket	1
10	580055651	Nut	7
11	504068794	Clamp	2
12	580055989	Capscrew	4
13	580045653	Clamp	2
14	524141696	Hose Clamp	2
15	580009288	Bracket	1
16	580055743	Capscrew	1
17	449034054	Roll Pin	2
18	580056005	Washer	1
19	580055734	Capscrew	4
20	504069740	Plate	1
21	580051876	Cap	1
22	504070756	Hose Guide	2
23	504070721	Snap Ring (Spiral Retaining Ring)	2
24	580009290	Stubshaft	1
25	580023124	Hose Sheave	2
26	580055631	Washer	1
27	582007106	Hose Guide	1
28	582006481	Bracket	1
29	580062131	Capscrew	1
30	582014307	Clamp	1
31	580055652	Nut	1
32	580055632	Washer	2

FOOTNOTES:

a Refer to Table

NOTES

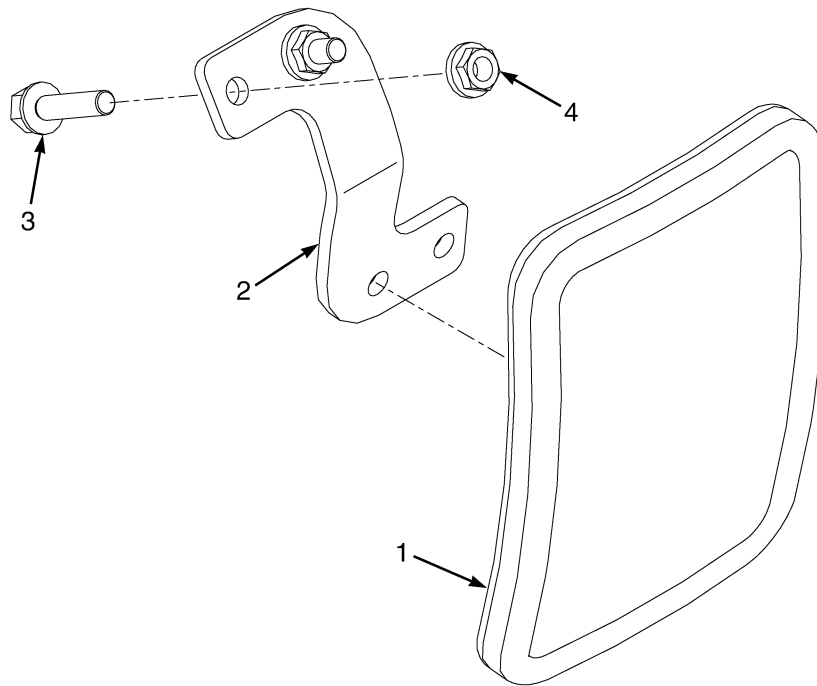
[illegible]



SECTION 13 OPTIONS

DESCRIPTION	PAGE
AUDIBLE BACKUP ALARM	13-3
FIRE EXTINGUISHER	13-4
INTEGRAL SIDE-SHIFT CARRIAGE	
THREE STAGE FULL FREE-LIFT	13-6
INTEGRAL SIDE-SHIFT CYLINDER	13-10
INTEGRAL SIDE-SHIFT HYDRAULIC HOSES	
THREE STAGE FULL FREE-LIFT	13-8
MIRRORS	13-2

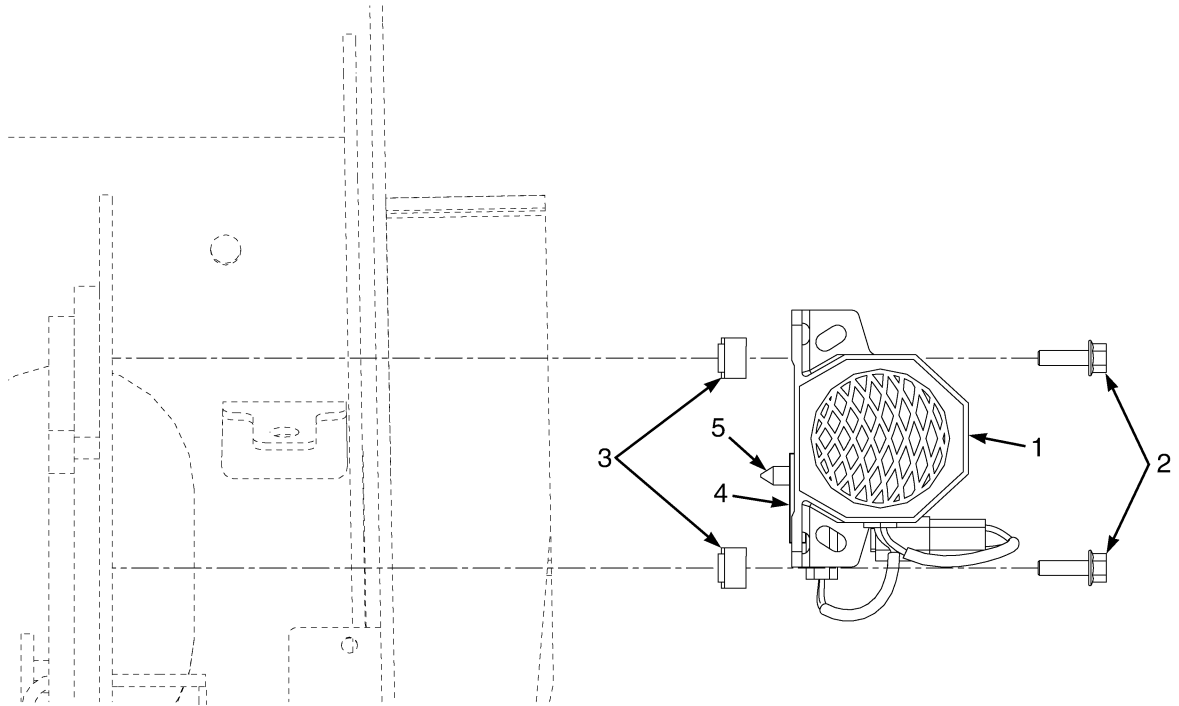
MIRRORS (FIGURE 13-1)



BP000540

ITEM	PART NO.	DESCRIPTION	QTY
1	582003281	Mirror	2
2	580080920	Bracket (LH)	1
2	580080919	Bracket (RH)	1
3	580058269	Capscrew	4
4	580058190	Nut	4

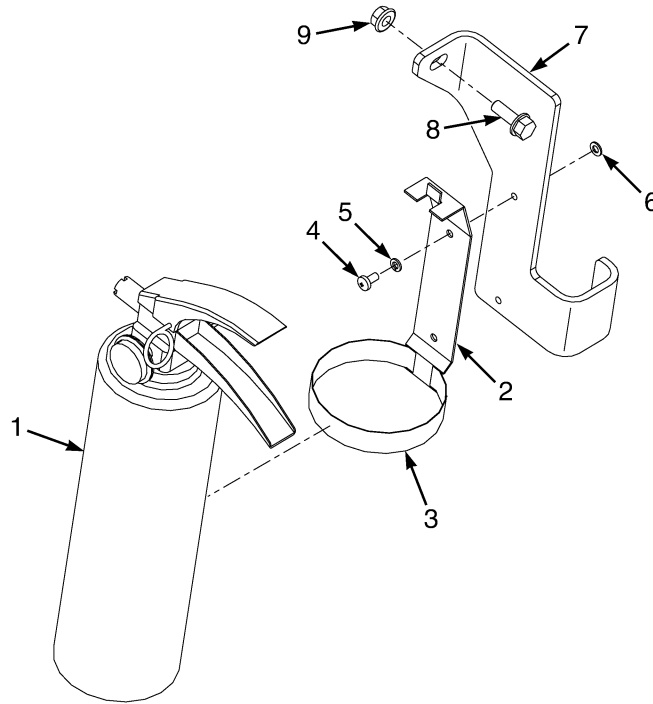
AUDIBLE BACKUP ALARM (FIGURE 13-2)



BP000541

ITEM	PART NO.	DESCRIPTION	QTY
1	580045132	Back-Up Alarm (82-102 dbA)	1
2	580039438	Capscrew	2
3	505970526	Nut	2
4	580026812	Clip	1
5	580056613	Fastener	1

FIRE EXTINGUISHER (FIGURE 13-3)

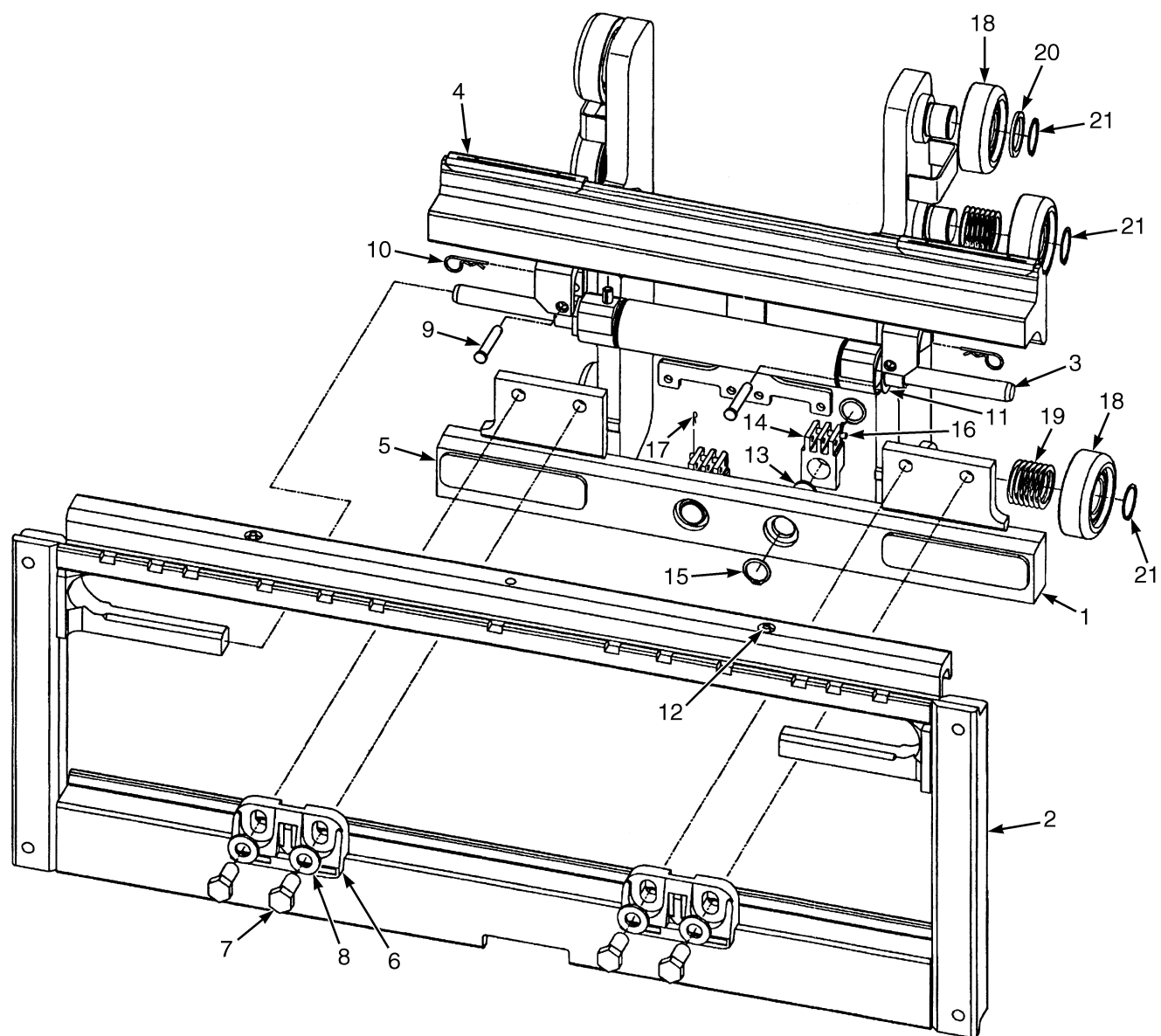


BP000543

ITEM	PART NO.	DESCRIPTION	QTY
1	504061719	Fire Extinguisher	1
2	580049526	Bracket	1
3	.....	Clamp	1
4	580027621	Screw	2
5	449021002	Washer	2
6	449022021	Washer	2
7	580056229	Bracket	1
8	580056815	Capscrew	1
9	580027573	Nut (Flange)	1

[illegible]

INTEGRAL SIDE-SHIFT CARRIAGE (FIGURE 13-4)
THREE STAGE FULL FREE-LIFT



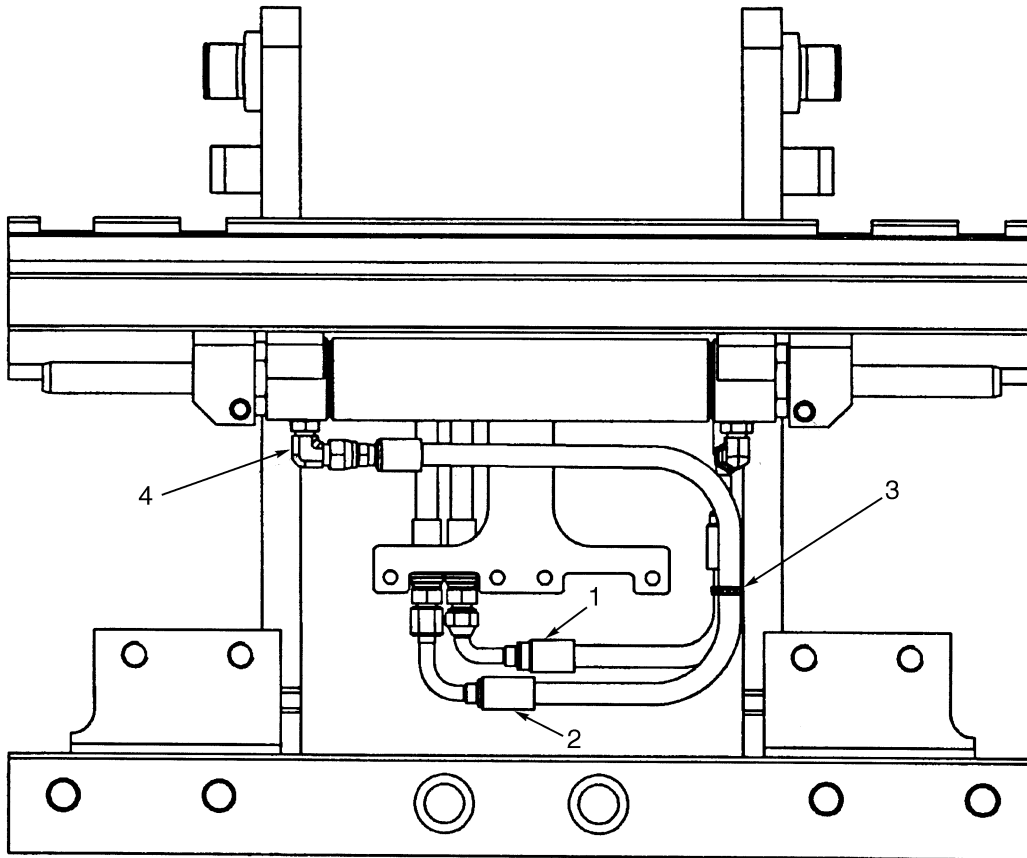
BP000250



INTEGRAL SIDE-SHIFT CARRIAGE THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	582002033	Side-Shift Carriage	1
1	582015974	Carriage Wldmt (Inner)	1
2	580023800		
	582014959	Frame (Outer)	1
3	580020708	Sideshift Cylinder Assembly (P22053 [Page 13-10]).....	1
4	580020724	Bearing (Upper)	2
5	580020726	Bearing (Lower)	2
6	582012213	Hook	2
7	580055980	Capscrew	4
8	580056008	Washer	4
9	580026721	Pin	2
10	580026723	Cotter Pin	2
11	580026720	Shim	AR
12	015628700	Grease Fitting	2
13	504071702	Pin	2
14	505978544	Chain Anchor (Dual Hole)	2
14	580027878	Chain Anchor (Single Hole)	2
15	500227907	Snap Ring	4
16	580033718	Pin	2
17	015415900	Cotter Pin	2
18	518797634	Load Roller (3.24 in.)	6
18	580001435	Load Roller ("A") (3.22 in.) (Optional)	6
19	504233232	Shim (0.020 in.)	28
20	504235278	Spacer	6
21	015916300	Snap Ring	6

INTEGRAL SIDE-SHIFT HYDRAULIC HOSES (FIGURE 13-5)
THREE STAGE FULL FREE-LIFT

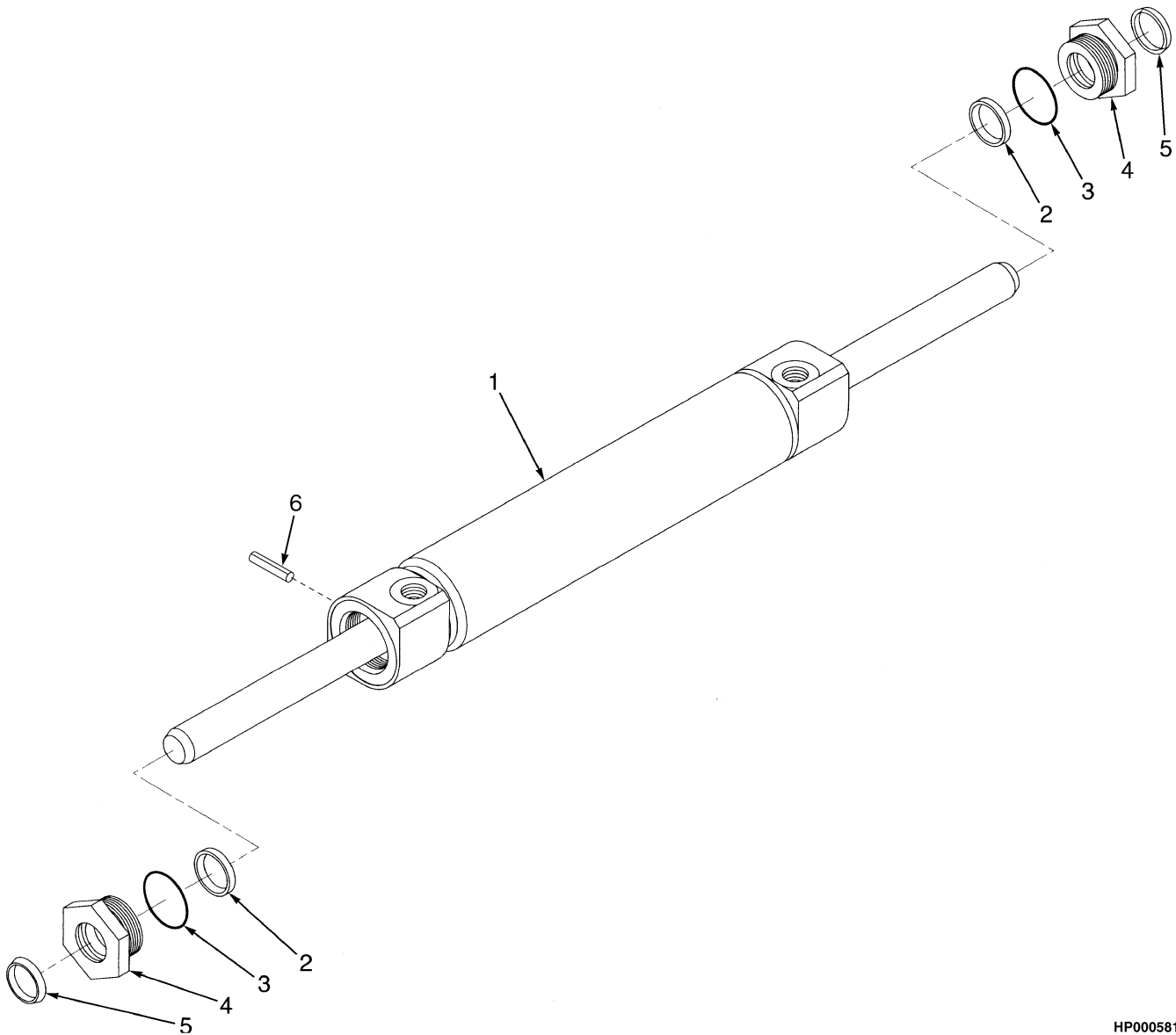


BP000003

ITEM	PART NO.	DESCRIPTION	QTY
1	582013095	Hose Assy	1
2	582013094	Hose Assy	1
3	312850042	Strap Clamp	1
4	580019861	Fitting	2

[illegible]

INTEGRAL SIDE-SHIFT CYLINDER (FIGURE 13-6)



HP000581

**INTEGRAL SIDE-SHIFT CYLINDER**

ITEM	PART NO.	DESCRIPTION	QTY
	580020708	Sideshift Cylinder Assembly (S40-55FT)	1
1	.....	Cylinder	1
2	580020721	Rod Seal	2
3	580020719	O-Ring	2
4	580026724	Retainer	2
5	580020741	Rod Wiper	2
6	580026725	Roll Pin	1
	580027520	Kit-Seal	1

NOTES

[illegible]



SECTION 14 NUMERICAL INDEX

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
012823500	7-15	29		7-13	15		7-17	31		12-9	9
012824300	12-3	7	052645700	11-3	20	449001415	2-31	4		12-19	8
	12-5	7	052645900	11-3	12		7-11	13		13-7	15
012825700	12-13	13	052674100	9-10	4	449001418	11-3	17	500227910	12-6	43
012829800	5-23	6	056363300	7-13	27	449007005	4-5	12		12-9	8
013392600	5-7	10	056623800	5-7	8	449015002	6-29	28	500343914	12-9	4
014936600	11-22	2	057047400	3-3	11	449015011	8-9	8	500390901	7-13	15
015125800	7-11	15		3-5	11	449015014	10-5	22		7-17	15
	7-15	14		3-7	2	449015098	1-19	11	500505908	7-11	17
	7-23	21	059695400	9-9	25		5-29	10		7-15	19
	7-25	21	061278200	1-5	4	449015112	10-5	19	500583902	11-15	10
015415900	12-5	21	062151600	1-21	21	449021001	1-13	4	501702901	2-3	
	12-9	21	062159500	7-3	2	449021002	5-7	22		7-8	
	12-19	10		7-5	3		13-4	5	501702902	10-5	
	13-7	17	064570300	7-11	29	449021003	5-29	24	501702903	7-7	
015421600	9-9	18		7-15	22	449021006	9-9	34	501749901	1-5	2
015493200	12-17	12	080437000	8-3	32	449021019	7-7	3	501753904	12-17	5
015493400	11-13	7	150121835	6-21	14		7-7	4	501801901	12-6	31
015628700	11-11	3		6-25	14	449022013	2-3	6	501802901	7-15	20
	13-7	12	203142800	1-21	27		2-31	5	501850904	12-13	9
015630900	11-11	12	258979300	1-9	9		7-11	25		12-17	8
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015916300	12-3	2	278131700	6-16	29	449022016	2-31	3		4-5	15
	12-5	2		6-26	1		7-5	15	501904907	1-27	5
	12-9	17	311207098	1-21	9		7-13	18	502011903	12-17	11
	12-19	3	311323023	9-9	28		7-17	18	502011914	11-13	9
	13-7	21	312850042	1-21		449022017	3-3	16	502056901	11-3	26
015918200	9-9	2		5-7	19		3-5	16	502056903	4-3	7
016103500	1-19	21		13-8	3		7-7	6		4-5	7
019299600	5-7	11	315976062	7-13	27		9-13	7		11-3	1
019930000	5-7	17		7-17	27	449022018	7-11	9		11-3	1
	5-21	9		11-10	7		7-15	9	502056904	11-3	25
023021000	1-19	24	315976070	7-13	26	449022021	7-15	36	502058911	5-21	
	1-21	15		7-17	26		13-4	6	502097909	1-19	15
031206200	7-11	30	316448036	7-3	8	449022022	6-29	15		1-21	11
	7-15	25		7-5	9	449022041	7-7	4	502565903	8-3	17
052229600	12-6	30	449001015	7-11	24		8-9	7	502566901	4-3	20
052337300	5-21	8		7-15	27	449025042	12-10	25	502566902	2-3	13
	5-23	16	449001048	7-7	7	449034011	5-19	8	502566903	8-3	35
052643500	12-6	40	449001138	2-3	5	449034054	12-9	7	502566904	2-31	13
052645200	7-13	26		2-31	7		12-21	17		7-8	2
052645300	7-5	1	449001204	11-7	8	449058011	8-3	10		11-3	16
	11-9	2	449001241	4-3	19	500025905	7-11	33	502604901	7-17	10
052645400	7-3	8	449001268	5-7	23		7-15	23	502635907	11-19	6
	7-3	9	449001302	2-31	6	500132901	5-21	10		11-21	2
	7-11	5	449001406	1-7	6	500136904	1-9	14	502637902	11-13	2
	7-13	12	449001412	1-19	20	500154904	11-3	5	502687901	12-17	3
	7-21	1		7-11	10	500154908	7-5	1	502895202	12-14	16
052645500	7-11	3		7-15	8	500227907	12-5	8	504024201	12-13	14

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
504024207	12-17	13	504230236	11-19	10	504288731	6-15	11	505962533	12-21	4
504060776	9-13	1		11-21	8	504288732	6-15	11	505963547	5-13	22
504061719	13-4	1	504230271	1-21	25	504288733	6-11	22	505966522	6-16	32
504064729	12-6	33	504231215	1-27	1		6-15	1	505966595	4-3	12
504064739	12-5	13	504231226	10-5	14		6-15	2		4-5	18
504064740	12-6	32	504231248	1-27	8		6-15	11	505967516	5-4	1
504064742	12-6	39	504231252	1-29	2		6-21	12	505967534	7-11	20
504064745	12-9	2	504231270	11-7	10		6-25	12		7-15	12
504064758	12-5	18	504231296	1-27	2		6-26	2	505967544	8-7	16
	12-9	23	504232205	12-17	14		6-33	1	505967551	7-11	4
504064767	12-5	9	504232277	12-17	15		6-33	2		7-15	4
504064769	12-5	10	504232281	6-34	35	504288740	6-16	25		11-15	12
504064781	12-5	16		6-36	5		6-34	19	505967586	5-7	1
504064782	12-5	24	504232297	6-11	14	504288741	6-15	3	505967598	7-11	11
504066700	12-3	1	504233232	12-3	4		6-16	28		7-15	11
	12-5	1		12-5	4		6-33	6	505968505	6-11	22
	12-9	1		12-9	15		6-33	11		6-15	1
	12-19	1		12-19	4		6-34	19		6-21	12
504068794	12-21	11		13-7	19		6-34	30		6-25	12
504069702	12-5	10	504233271	1-5	3	504288749	6-16	35		6-33	1
504069724	7-5	12	504234265	12-3	5		6-34	21		6-33	2
504069740	12-21	20		12-5	5	504301776	12-21	9	505968511	6-16	32
504069791	12-5	10	504234266	12-5	17	504301779	12-21	5	505968514	1-9	17
504070716	12-21	3		12-9	24	504301785	12-9	3		6-21	13
504070721	12-21	23	504234269	11-13		504305701	9-10	7		6-25	13
504070732	12-5	23		12-14			11-13	4	505968540	1-9	17
504070754	12-5	1		12-17		505136042	12-14		505968566	6-15	6
504070756	12-21	22	504235239	12-13	5	505136049	12-17			6-21	14
504071702	12-19	7	504235278	12-19	5	505657543	12-13	3		6-25	14
	13-7	13		13-7	20		12-13	3		6-35	43
504071785	1-10	3	504236253	12-6	35		12-13	3	505968568	6-15	5
504073748	12-5	1	504236262	9-10	6		12-13	3		6-17	40
504073759	12-9	1	504240712	6-12	12		12-13	3		6-17	43
504073788	12-9	1	504256775	2-18	9		12-13	3		6-17	45
504075721	12-9	2	504258725	2-21	21	505959522	5-13	23		6-19	8
504075764	12-3	6	504258732	2-21	31		5-15	2		6-19	11
	12-5	6	504258737	2-21	19	505959558	2-21	10		6-20	9
504075767	12-9	19	504259745	2-15	10	505959568	2-27	19		6-20	11
504075776	12-6	34	504259748	2-15	9	505960503	2-15	12		6-23	8
504111202	1-2	1	504259749	2-15	8	505960516	2-9	11		6-23	11
504111203	1-2	1	504259763	2-13		505960520	2-22	3		6-24	9
504148200	12-13	7	504259764	2-9	26	505960521	2-21	34		6-24	11
	12-17	7	504281794	12-5	22	505960531	2-21	36		6-34	34
504153200	12-13	10	504281795	12-9	10	505960535	6-5	7		6-35	38
504154200	12-13	11	504281796	12-9	4	505960536	2-15	6		6-35	39
504163200	12-13	12	504281799	12-9	4	505960538	2-13	12		6-35	42
504225242	9-10	5	504288730	6-11	22	505960545	2-21	7	505968593	6-34	34
504226218	7-8			6-15	2	505960548	2-15	11		6-35	38
	8-4			6-20	2	505960550	2-21	33		6-35	39
504229225	11-11	9		6-24	2	505960578	1-5	2	505969521	9-9	6
504230207	11-19	13		6-33	2	505960594	2-13	6	505969551	9-9	11



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
505970506	5-21	5	516987808	5-13	18	520044819	6-15	7		7-25	6
505970510	5-21	2	518791631	12-5	16		6-33	12	524264678	2-25	
	5-21	4	518794659	12-13	8	520044820	6-33	12	524264688	2-21	23
505970524	5-3	5	518797634	12-19	2	520045069	6-16	29	524264690	2-21	32
	5-23	5		13-7	18		6-26	2	524279521	2-45	10
505970526	13-3	3	518798654	5-13	3	520045074	6-16	29	524279522	2-45	10
505970529	6-9	3	518801644	12-5	19		6-26	2	524279523	2-43	7
	6-29	30		12-9	20	520045672	6-19	13	524279524	2-43	7
	7-5	11	518803677	1-21	19		6-20	4	524279525	2-45	11
505970544	9-9	24	518805618	8-3	21		6-23	13	524279526	2-45	11
505970586	6-33	10		8-3	26		6-24	4	524281279	1-19	10
505970592	4-3	10	518805632	1-17	14		6-33	16		1-21	16
	4-5	15	518806645	1-29	10	520045804	6-16	26	524303459	2-33	2
505971512	9-9	8	518806660	12-6	27		6-20	2	524305985	2-33	1
505971513	9-9	16	518807683	5-16	6		6-24	2	524310196	1-5	1
505971519	8-9	3	518852600	11-13	11	520045805	6-16	26	524310197	1-5	1
505971538	9-9	7	519244814	8-3	7		6-20	2	524310789	1-27	10
505971543	8-9	4	519528670	12-13	2		6-24	2	524319552	2-15	1
505971590	9-9	22		12-13	2	520045874	6-16	34	550005006	1-7	2
505971656	8-9		519528671	12-13	2	520051893	12-3	8	550007449	1-10	2
	9-13			12-13	2	520052851	6-9	27	550015378	1-17	1
505972563	4-3	3	519528672	12-13	2	520082877	1-19	13	550015595	1-17	
	4-5	4		12-13	2		1-21	13	550016119	1-27	18
505972565	9-9	5	519529638	12-13	1	520202601	6-16	27	550020335	7-13	7
505972572	4-5	13	519529639	12-13	1	524141696	11-9	16		7-17	7
505972589	6-21	14	519529640	12-13	1		12-21	14	550028659	1-13	40
	6-25	14	519529688	12-13	1	524141846	12-6	38	550028660	1-13	43
505972590	9-9	4	519529689	12-13	1	524149438	1-14	46	550028661	1-13	43
505975518	7-13		519529690	12-13	1	524162256	1-27	7	580000037	6-11	9
	7-15	37	519537600	12-17	4	524172607	11-13	1	580000180	5-23	3
	7-17	32	519540641	12-17	2	524179205	9-9	32	580000727	2-21	
505976530	1-27	5	519540642	12-17	2	524188740	1-13	27	580000868	10-5	28
	1-27	16	519540643	12-17	2	524188745	1-13	37	580001430	12-3	3
505976537	6-9	14	519541646	12-17	1	524195752	1-13	4		12-5	3
505976545	1-29	9	519541647	12-17	1	524197919	12-3	9		12-9	16
505976556	1-29	8	519541648	12-17	1	524199303	1-3	1	580001435	12-19	2
505977565	1-27	11	520036848	12-3	3	524208880	1-27	9		13-7	18
505977584	1-27	16		12-5	3	524208883	1-9	8	580001621	6-29	12
505978544	12-19	6		12-9	16	524209959	2-29	9	580001734	5-16	3
	13-7	14	520036852	12-3	3		2-33	14	580001826	2-25	4
506002500	11-13	5		12-5	3	524228290	2-46	8	580001828	2-25	1
506845500	12-13	4		12-9	16	524228291	2-46	6	580001829	2-25	10
506986116	11-13	6	520037898	6-15	8	524228505	2-49	6	580002019	1-7	4
507353800	1-13	4	520038855	6-19	4	524232141	1-27	6	580002046	9-9	31
511405800	5-21	16		6-20	5	524240422	1-9	1	580002885	4-3	14
514214804	5-21	15		6-23	4	524240692	1-9	10		4-5	20
514454800	7-11	5		6-24	5	524242078	2-21	25	580003145	11-15	11
	7-13	12		6-33	3	524253576	2-21	4	580003427	5-4	5
	7-15	6	520040899	12-9	4	524255824	2-33		580004592	1-17	8
	7-17	12	520042831	8-7		524255979	1-17	4		1-17	29
	7-21	1		11-3		524259220	7-23	6		5-19	6

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580004656	5-16	5		6-23	15	580022893	1-9	17	580026725	13-11	6
580006543	6-33	9	580019808	11-7	2	580022963	7-5	14	580026749	1-2	4
	6-33	13	580019810	11-9	13	580022997	6-16	37	580026809	6-19	6
580006553	6-9	5	580019817	7-5	8	580023008	1-17	21		6-23	6
	6-9	16		11-3	22	580023124	12-21	25	580026812	1-9	15
	6-29	29	580019819	11-3	24	580023586	6-16	37		6-3	8
	6-29	30	580019838	12-6	37	580023845	6-15	1		6-29	2
580006764	5-13	10	580019860	11-9	5		6-15	2		13-3	4
580006842	1-3	4	580019861	13-8	4		6-21	12	580026813	6-15	5
580006843	1-3	3	580019871	11-9	19		6-25	12		6-35	42
580006844	1-3	2	580020060	3-3	15		6-26	2	580026816	6-21	13
580006976	11-19	5		3-5	15		6-33	1		6-25	13
	11-21	11	580020468	11-9	4		6-33	2	580026933	1-29	4
580006977	11-19	3	580020708	13-7	3	580023854	6-9	22	580027066	11-3	7
	11-21	12		13-11		580023924	6-20	2	580027270	11-3	7
580008064	1-27	4	580020719	13-11	3		6-24	2	580027520	13-11	
580008524	5-3	13	580020721	13-11	2	580024032	6-17	48	580027572	1-17	22
580009288	12-21	15	580020724	13-7	4		6-17	50		3-3	6
580009290	12-21	24	580020726	13-7	5	580024160	6-5	25		3-5	6
580010738	6-33	12	580020741	13-11	5	580024166	2-25	8	580027573	5-15	12
	6-36	1	580021087	6-17	40	580024167	2-25	20		6-9	11
580010739	6-33	12		6-17	43	580024168	2-21	3		11-10	
	6-36	1		6-17	45	580024169	2-21	35		13-4	9
580010912	12-6	29		6-19	8	580024213	2-15	5	580027621	13-4	4
580011108	7-13	22		6-20	9	580024214	2-15	5	580027766	5-7	13
	7-17	22		6-20	11	580024215	2-15	5	580027878	12-19	6
580011154	5-21	12		6-23	8	580024321	6-17	39		13-7	14
580011625	7-3	9		6-24	9	580024707	11-9	10	580027945	2-5	4
580011639	6-19	10		6-24	11	580024920	12-9	12	580028333	6-15	12
	6-23	10		6-34	34	580025559	6-19	5	580030876	6-15	4
580012159	11-5			6-35	38		6-23	5		6-33	5
580012323	6-15	12		6-35	39	580025560	6-19	3	580030878	6-17	42
580012324	6-15	13	580021088	6-17	40		6-23	3		6-20	7
580012987	1-13	35		6-17	43	580025779	6-34	30		6-24	7
	3-5	21		6-17	45	580025799	6-16	30		6-34	37
	11-3	11		6-19	8		6-17	49	580030966	1-10	1
580014315	5-29	9		6-20	9	580026621	1-13	21		3-5	20
580014386	6-33	12		6-21	11		1-14	47		4-5	3
	6-36	1		6-23	8		4-5	17		5-5	2
580014465	1-21			6-24	9		5-29	15		7-5	10
580017034	5-7	21		6-25	11		6-3	13	580030967	8-7	15
580018614	1-19	9		6-34	34		6-9	7	580030968	3-3	9
580018642	1-25	4		6-35	38		7-3	5		3-5	9
580018643	1-25	6		6-35	39		7-5	5		3-7	4
580019119	6-19	9	580022121	6-15	11		11-7	6	580030969	11-3	9
	6-20	8		6-15	12	580026649	6-16	30	580030970	5-7	4
	6-23	9	580022502	12-14	15		6-17	49		11-11	1
	6-24	8	580022505	11-13	8	580026720	13-7	11	580030975	10-5	2
580019245	6-19	15	580022514	11-13	10	580026721	13-7	9	580032011	2-3	4
	6-23	15	580022859	6-15	5	580026723	13-7	10		9-3	6
580019246	6-19	15		6-35	42	580026724	13-11	4	580032974	8-7	7



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580032975	8-7	11	580036340	9-9	26		6-34	21	580040177	4-5	10
580033315	8-7	6		9-10		580039194	6-19	11	580040318	9-9	15
580033339	8-3	38	580036619	8-3	12		6-23	11	580040319	9-9	9
580033391	8-3	43	580036620	8-3	7	580039250	6-17	47	580040374	6-9	17
	9-9	29	580036680	4-3	3	580039251	6-16	22		6-29	29
580033512	2-9	23	580036738	5-21	25	580039252	6-16	21	580040456	6-16	29
580033718	12-5	20	580036870	5-21	13	580039254	6-16	24		6-26	1
	12-9	22	580036946	8-3	8		6-33	14	580040489	11-11	2
	12-19	9	580036981	6-19	9	580039255	6-34	31	580040786	7-23	14
	13-7	16		6-23	9	580039278	6-33	15	580040787	7-23	16
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	6-21	12		6-3	5	580039425	11-9			6-25	14
	6-25	12		6-9	9	580039438	13-3	2	580040823	6-21	14
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	6-20	2	580037270	11-17	1		6-23	9		5-4	
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	7-17	6	580038861	4-3	8	580039800	4-3	3	580041768	6-9	26
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580035777	9-9		580039142	3-3	7		6-9	20	580042330	6-29	22
580035778	9-9	19	580039158	6-16	25	580039908	10-5	6	580042331	5-21	21
580036023	6-29	19		6-16	35	580039912	11-3	6		5-29	21
	7-11	6		6-19	16	580040032	9-10	8	580042340	5-29	8
	7-15	7		6-23	16	580040128	10-5	23	580042356	5-21	20

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580042529	7-25	14	580045323	11-9	15	580047025	7-8	1	580048954	5-23	15
580042533	7-23		580045338	9-3	1	580047026	7-8	1	580049011	1-17	18
	7-25		580045401	6-29	24	580047049	6-12	2		5-11	11
580042794	10-5	8		6-36			6-12	8		5-13	24
580042842	10-5	9	580045523	2-22	1	580047200	6-3	3		5-15	11
580042932	5-23	2		5-8	4		6-12	4	580049075	6-29	29
580042963	1-13	31		6-7	1		6-12	11	580049224	6-11	21
	10-5	12	580045546	5-21	22	580047454	11-9	6	580049225	6-11	6
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580043375	5-21	6	580046138	1-13	12		5-29	17	580049231	1-17	6
580043584	6-29	11	580046139	1-13	15		6-3	12		5-29	16
580043655	6-36	1		1-13	19		6-9	6		6-9	23
580043866	5-19	11	580046263	6-9	24		6-12	5	580049289	6-29	7
580043885	6-33	11	580046273	7-11	32		7-3	6	580049294	11-19	7
580044129	11-15	15		7-15	33		7-5	16		11-21	14
580044131	6-15	9	580046274	7-13	20		8-3	24	580049329	5-21	19
580044373	8-3	30		7-17	20		8-7	12	580049331	9-9	30
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	6-17	44	580046412	5-3	8	580047728	8-9	2	580049522	6-16	31
	6-34	36	580046413	5-23	10	580047741	9-13	2	580049526	13-4	2
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	6-17	44		7-13	14	580047919	5-29	11		1-17	33
	6-34	36		7-17	14		6-29	13	580049806	9-5	13
	6-35	40	580046576	11-9	6		8-3	22	580049807	9-5	17
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580045064	7-11	31	580046889	2-15	7	580048721	6-17	46		1-17	28
	7-15	32	580046902	2-27	24	580048738	7-11	14	580050042	2-3	7
580045072	7-11	27	580046903	2-27	27		7-15	21		2-31	8
	7-15	30	580046909	2-17	2	580048818	6-33	9		7-13	13
580045132	13-3	1	580046971	5-3	14	580048839	5-4	3		7-17	13
580045192	1-13	25		5-23	17	580048840	5-4	2	580050293	6-9	4
580045195	8-3	39	580046981	2-21	6	580048841	5-4	4		6-29	30



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580050475	5-21	26	580052864	8-7	21	580055166	11-22	2		12-9	6
580050478	1-13	30	580052865	8-7	27	580055193	7-23	8		12-21	18
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	6-35	43	580052867	8-7	25	580055195	7-23	9	580056008	13-7	8
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580052286	5-23	13	580054672	11-19	24		12-21	6	580056730	6-9	21
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580052550	4-5	6	580054869	11-19	15		11-11	7		1-17	31
580052661	5-19	7		11-21	6		12-3	12		4-3	5
580052685	5-29	20	580054992	11-3	4		12-5	12		5-3	9

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
	5-23	9	580060289	8-7	34		2-49	8	580062637	2-37	8
	11-15	5	580060321	10-3		580062471	2-45	17	580062638	2-37	1
	13-4	8	580060322	10-3		580062472	2-33	5	580062639	2-37	2
580056839	5-19	13	580060323	10-3	15		2-37	46	580062640	2-37	3
580056840	5-29	13	580060376	6-29	20		2-41	7	580062641	2-37	4
	11-15	9	580060576	10-5	32		2-49	5	580062642	2-37	5
580056844	11-15	4	580060600	2-5	1	580062473	2-33	8	580062643	2-37	9
580056877	11-19	14	580060601	2-5	1	580062474	2-33	7	580062644	2-37	38
580056906	6-29	5	580060755	7-23		580062475	2-33	4	580062645	2-37	40
580056926	1-19	8		7-25		580062476	2-29	3	580062646	2-37	47
580057260	1-25	9	580061341	9-10	2		2-33	11	580062647	2-37	39
580057266	1-25	11	580061342	9-9	20	580062477	2-33	6	580062648	2-29	2
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580057351	5-5			12-3	11	580062479	2-35	1	580062651	2-29	5
	8-7		580061814	1-13	4	580062480	2-35	2	580062652	2-29	6
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580058137	1-17	34	580062447	2-45	8	580062494	2-37	20		2-43	11
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	1-13	7		2-45	9	580062498	2-37	10		2-46	5
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580058269	11-15	13		2-49	11	580062500	2-37	12	580062670	2-41	13
	13-2	3	580062451	2-45	7	580062501	2-37	14	580062671	2-41	12
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580058383	1-17	9	580062460	2-33	9	580062505	2-37	25	580062675	2-43	13
580058447	1-9	17		2-35	7	580062506	2-37	26	580062676	2-43	16
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	3-5	10	580062465	2-33	16		2-37	32	580062680	2-43	1
580059631	7-13			2-37	6	580062510	2-37	30	580062681	2-43	2
	7-17		580062466	2-33	17		2-37	33	580062682	2-43	4
580059714	6-29	23		2-37	7	580062511	2-37	31	580062683	2-43	3
580060018	1-19	23	580062467	2-33	12	580062512	2-37	34	580062684	2-43	5
580060203	5-21	27	580062468	2-33	10	580062513	2-37	35	580062685	2-43	6
580060225	8-7	37	580062469	2-33	13	580062514	2-37	36	580062686	2-43	8
580060232	8-7	35	580062470	2-45	16	580062515	2-37	37	580062688	2-43	1



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580062689	2-43	2	580062754	6-30	34		6-17	44		3-5	12
580062692	2-49	1	580062756	6-30	34		6-34	36	580073416	3-3	12
580062693	2-49	3	580062763	6-30	34		6-35	40		3-5	12
580062694	2-49	2	580062770	6-30	34	580063751	6-17	41	580073429	5-3	12
580062695	2-49	4	580062772	6-31	1		6-17	44	580073519	6-9	12
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	5-25	8	580062799	2-29		580064907	1-17	16	580075200	8-3	19
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580062708	2-46	11		2-35		580064998	5-27	1	580075380	6-34	28
580062709	2-46	1		2-38		580065002	9-3	3	580076313	6-9	27
580062723	2-37	43		2-45		580065072	5-27	1	580076450	6-9	1
	5-27	2		2-46		580065073	5-27	1		6-29	30
580062724	5-27	4		2-49		580065386	1-17	17	580076561	9-13	5
580062725	5-27	3		5-27		580065388	1-17	13	580076563	8-9	5
580062726	5-27	14	580062801	5-27	19	580065405	1-17	12	580076752	6-3	16
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	5-27	17	580062803	5-27	21	580067185	5-11	3	580076865	5-23	6
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580062729	5-27	13	580062805	5-27	22	580067608	2-43	17	580077954	5-13	5
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580062731	5-27	11	580062807	5-27	24	580068075	5-25	6	580078218	5-13	7
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580062741	5-25	4		6-36	4	580071011	11-3	12	580078227	5-13	9
580062742	5-25	5	580063616	6-9	18	580071066	6-20	10	580078228	5-11	13
580062744	5-25	7		6-29	29		6-24	10		5-13	16
580062745	5-25	9	580063617	6-9	13	580072689	4-3	13	580078229	5-15	19
580062746	5-25	10		6-29	29		4-5	19	580078232	5-15	9
580062747	5-25	11		6-29	30	580072982	7-17	7	580078233	5-15	14
	6-30	36	580063618	6-9	2	580073345	7-11	3	580078235	5-15	3
580062748	6-29	34		6-29	30		7-15	3	580078236	5-15	5
580062750	6-29	34	580063619	6-33	7	580073413	3-3	14	580078238	5-15	13
580062751	6-29	34	580063620	6-34	20		3-5	14	580078239	5-15	16
580062753	6-30	34	580063697	6-17	41	580073415	3-3	12	580078244	5-16	

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
580078245	5-11	2	580080022	5-19	1	580086874	9-3	2		2-46	
580078246	5-11	1	580080025	6-15	7	580086875	9-3	2		2-49	
580078248	5-8	11	580080026	6-15	8	580086876	9-3	2		5-25	
	5-11	5	580080031	6-16	30	580086972	5-23	6		5-27	
580078250	5-8	9		6-17	49	580086989	7-11	1	580090094	7-13	3
	5-8	12	580080032	6-16	38	580087164	1-17	11		7-17	3
	5-11	9	580080171	1-7	3	580087184	1-13	38	580090191	7-11	21
580078251	5-11	7	580080338	6-6	2	580087185	1-13	28		7-15	13
580078255	5-11	14	580080654	8-3	36	580087194	7-13	9	580090374	5-7	16
580078257	5-11	6	580080753	7-13	21		7-17	9	580090387	5-7	16
580078285	5-13	14		7-17	21		7-23		580090439	11-15	16
580078287	5-8	5	580080919	13-2	2	580087195	7-13	8		11-17	
	5-13	17	580080920	13-2	2		7-17	8	580090449	11-17	2
580078288	5-8	3	580081787	9-3	5		7-25		580090679	1-19	3
	5-13	8		9-5		580087219	7-11	23	580090840	12-9	18
580078294	6-6	3	580082329	6-16	36		7-15	26	580090887	1-9	7
580078329	5-15	15	580082531	6-11	5		7-21		580091165	7-3	1
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	2-9		580082534	6-11	4	580087224	7-21	7		6-29	29
	2-11		580082537	7-13	24	580087290	7-11	12	580092518	7-5	13
	2-13			7-17	24	580087365	8-7	9	580092732	1-19	19
	2-15		580083020	1-13	13	580087580	11-10	1		1-21	22
	2-21		580083423	11-15	8	580087581	11-10		580092936	1-13	6
	2-25		580083459	11-3	21	580087631	11-9	12	580092937	1-13	10
	2-27			11-5		580087650	3-3	13	580092987	1-19	16
580078924	2-27		580083733	4-3	15		3-5	13		1-21	24
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580079545	5-11	12	580085165	11-17	3	580089948	5-4	4	580094703	7-3	7
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	5-15	17	580085970	1-17	20		2-33		580094784	5-8	6
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580079615	6-11	8	580086232	6-19	14		2-37			5-16	
580079982	7-13	23		6-23	14		2-41		580094879	7-13	2
	7-17	23	580086342	1-17	30		2-43			7-17	2
580080021	5-19	2	580086666	4-3	21		2-45		580094880	7-13	16



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
	7-17	16	582001250	8-7	18	582002989	5-7	20	582005777	5-11	8
580094926	11-17	5	582001466	8-7	29		6-26		582005778	5-11	15
	11-19		582001467	8-3	29	582003174	6-15	3	582005779	5-11	4
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	7-15	10	582001468	8-3	25	582003214	6-3	10	582005862	4-3	6
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	7-5	2	582001484	11-13		582003495	4-3	9	582006405	7-17	1
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	7-15	5	582001646	12-5	26		6-19		582006407	7-15	31
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580095462	1-21	4		3-5	18	582003502	7-13	29	582006484	11-3	19
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580095475	1-21	3	582001759	7-11	16	582003678	7-7	8	582006503	3-5	19
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580096406	1-13	32	582001762	12-21	1	582003822	6-3	9	582006520	6-3	11
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580096514	7-17	17	582001797	11-11	4	582004126	1-21	8	582006709	8-3	13
	7-18	2	582001885	1-13	2	582004169	10-5	18	582006711	8-3	
580096539	6-16	28	582001890	1-13	1		10-7	5	582006737	12-3	10
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	10-7		582001957	11-11	11	582004374	6-12	7	582006769	8-3	33
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	2-43	17	582002033	13-7		582004516	1-17	28	582006915	5-29	18
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	3-5	5	582002535	1-21	18	582005028	1-19	6	582007253	12-3	1
	3-7	6	582002614	7-23	3		1-21	7	582007264	12-3	
582000047	11-10			7-25	3	582005075	5-7	2		12-5	
582000048	11-10	6	582002615	7-23	19	582005114	10-5	11		12-9	
582000079	11-10	1		7-25	20	582005136	6-12	13	582007265	12-3	
582000135	2-45	14	582002621	1-19	17	582005178	6-5	28		12-5	
582000136	2-45	14	582002667	6-15	7	582005302	5-7	3		12-9	
582000157	3-3	8	582002866	6-11	22	582005336	11-3	15	582007288	12-9	11
	3-5	8	582002867	6-15	1	582005520	11-3	14		12-17	
	3-7	5		6-33	1	582005523	11-10	6	582007289	12-9	11
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582000813	1-19	5		6-25	12	582005712	11-9	7	582007290	12-9	11
582001179	8-3	2	582002869	6-15	2	582005713	11-9	9		12-17	
582001231	8-3	14		6-33	2	582005714	11-9	8	582007293	7-13	17
582001248	8-7	3	582002947	11-10	6	582005715	11-9	20		7-17	17
582001249	8-7	17	582002952	11-10		582005769	7-11	2		7-18	

NUMERICAL INDEX

NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
582007346	12-5	1	582012057	5-3	7	582018841	1-21	6	901272820	2-13	19
582007411	12-5	25		5-4		640032905	1-27	16	901274801	2-9	17
	12-13		582012213	13-7	6	900001224	5-21	18		2-27	5
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	12-13			9-7			4-5	20	901276809	2-18	6
582007413	12-5	15	582012601	9-5	1	900001231	4-3	17	901282833	2-25	19
	12-13		582012628	9-9	23		4-5	20	901282846	2-21	5
582007414	12-5	15	582012925	11-3	23	900002253	12-9	2	901290803	2-9	20
	12-13		582013060	11-7	4	900002259	12-5	23	901290804	2-9	21
582007415	12-5	15	582013061	11-7	3	900002264	12-5	16	901290806	2-9	22
	12-13		582013094	13-8	2	900003213	12-6	28	901290808	2-9	2
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	12-13		582013302	5-7	24	900003260	4-3	18	901290816	2-9	28
582007601	12-6	36	582013700	5-4	6		4-5	20	901290818	2-9	6
582008126	7-15		582013862	1-21	8	900003277	12-3	17	901290825	2-9	12
	7-17		582013931	5-4		900007271	5-21	11		2-13	1
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582009793	5-7	9		6-23		900284852	2-27	10	901290831	2-9	18
582009794	5-7	12		6-24		900291803	2-25	5	901290832	2-9	14
582010050	1-13	29	582014546	5-8	8	900291804	2-25	6	901290834	2-9	1
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582010094	12-9	1	582014835	1-17	23	900526819	2-21	22	901290837	2-9	17
582010095	8-7	19	582014959	13-7	2	900529808	2-17	10		2-27	22
582010096	7-13	29	582015034	6-29	1	900542813	2-11	2	901290838	2-9	15
	7-17	30		6-33		900542824	2-17	8	901290842	2-9	25
582010105	11-7	11	582015061	5-29	23	900543845	2-13	17	901290843	2-9	10
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	12-5		582015146	6-34	29		2-17	1	901291803	2-11	5
	12-9		582015158	6-3	1		2-21	1	901291804	2-11	8
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	9-5		582015425	4-5	9	900870815	10-3	27	901291814	2-11	11
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	9-5		582015453	1-13	42	901084817	2-17	7	901292811	2-13	4
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	7-17	33	582016326	9-7	8	901097863	6-5	23	901292819	2-13	7
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582011224	7-17	1	582016328	9-7	13	901270814	2-9	7		2-25	21
582011311	7-23	2	582016329	9-7	16	901270815	2-9	8	901292820	6-5	24
	7-25	2	582016330	9-7	21	901271803	2-25	2	901292831	2-13	9
582011406	6-34	27	582016331	9-7	25	901271816	2-11	10	901292832	2-13	15
582011407	6-34	28	582017134	10-7	2	901271817	2-9	19	901293811	2-15	3
582011410	6-34	28	582017140	10-7	1		2-11	6	901293812	2-15	3
582012046	1-21		582017918	5-15	4	901272802	2-13	18	901293813	2-15	3



NUMERICAL INDEX (continued)

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
901293814	2-15	3	901303836	6-5	19	906268100	9-13	6		8-3	42
901293825	2-15	2	901574814	2-11	14	906646100	8-9	6	931014902	2-31	14
901293861	2-15	13	901575808	2-13	21	908076100	8-3	15	931014906	8-3	1
901293862	2-15	13	901575820	2-13	13		8-7	31		8-7	28
901293863	2-15	13	901575824	2-13	22	909267300	5-7	15	931017917	7-7	5
901293864	2-15	13	901575826	2-13	20	909882404	9-9	35	931017918	2-5	3
901294802	2-27	9	901577818	2-27	3	909882405	1-5	5		8-3	34
901294806	2-27	6	901577822	2-27	28	909904403	1-13	14	931108909	6-29	16
901294813	2-27	18	901577823	2-27	25	909932401	8-7	2	931109909	6-29	27
901294814	2-27	14	901578809	2-25	9	909932405	9-9	14	932200902	8-7	4
901294815	2-27	21	901578811	2-25	11	909932406	9-9	13	934403300	10-5	1
901294824	2-27	20	901578812	2-25	12	909932409	8-3	10	934404300	10-5	1
901294825	2-27	29	901578816	2-25	16	910065119	6-19	7	936301301	10-3	
901294827	2-27	1	901579802	2-21	27		6-23	7	937100904	10-5	26
901294828	2-27	2	901579803	2-21	28		6-33	4	937701906	5-29	6
901294832	2-27	7	901579804	2-21	26		6-34	33	940004902	6-29	14
901294833	2-27	8	901579805	2-21	24	910983100	2-7	4	940004903	4-5	11
901294834	2-27	11	901579806	2-21	11	911378400	2-13	14		6-29	25
901294835	2-27	15	901579811	2-21	17	912189300	2-18	7	940102909	2-3	2
901294836	2-27	13	901579818	2-21	9		3-3	2		2-31	15
	2-27	16	901579827	2-21	20		3-5	2	940400905	1-19	18
901294837	2-27	12	901579833	2-21	16	912207300	5-21	24		1-21	23
	2-27	17	901848826	2-9	3	912514300	5-7	6	940600906	5-19	12
901294838	2-27	4	901860805	6-5	18	913213401	6-34	18		10-7	4
901294839	2-27	23	901860807	6-5		913213402	6-33	17	940600907	1-21	20
901295811	2-17	3	901950812	6-5	26	919890404	5-21	23		6-29	17
901296804	2-18	8	901950814	6-5	21	919921300	8-3	5	940600908	6-9	10
901296805	2-18	3	902136802	9-13	3	920802300	8-3	11		6-29	31
901296806	2-18	5	902136803	9-13	4	921949300	8-3	9	940800907	8-3	3
901296807	2-18	2	902194801	10-3	1	922100300	10-5	1	950409907	7-13	11
901300827	2-7	5	902194802	10-3	1	922102300	10-5	1		7-17	11
901301802	2-25	17	902194803	10-3	21	922363300	9-9	17	950513905	8-7	14
901301815	2-25	15	902194804	10-3	3	922365300	1-13	5	950517907	9-9	13
901301818	2-25	18	902194805	10-3	6	922627300	10-5	5	952405902	6-19	17
901301821	2-25	7	902194806	10-3	6	924234401	8-7	13		6-19	18
901301822	2-25	14	902194808	10-3	8	924307401	10-3			6-23	17
901301823	2-25	13	902194809	10-3	9	924307402	10-3			6-23	18
901302814	2-21	2	902194810	10-3	10	927937300	5-29	4	952408901	6-19	17
901302821	2-21	15	902194811	10-3	20	929150300	10-3			6-19	18
901302834	2-21	13	902194840	10-3	22	929151300	10-3			6-23	17
901302839	2-21	37	904165100	10-3		930903905	2-3	3		6-23	18
	2-27	26	906085100	8-3	4	931013907	7-13	19	955400911	1-7	5
901302840	2-21	29	906196100	8-7	19		7-17	19	958506995	9-9	21
901303832	6-5	4									

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SECTION 15 USER SUPPORT INFORMATION

DESCRIPTION	PAGE
SERVICE PARTS ORDERING INSTRUCTIONS	15-2
TECHNICAL SERVICE PUBLICATIONS	15-2
OPERATOR TRAINING	15-2
SERVICE TRAINING COURSE	15-2
SERVICE TRAINING MATERIALS	15-2

USER SUPPORT INFORMATION

Your investment in a Yale Industrial Truck is important to you and to your Yale Dealer. You measure the return on that investment through the performance of these trucks and the drivers who operate and the mechanics who service them safely and efficiency. The following information is intended to help you to achieve your investments objectives:

SERVICE PARTS ORDERING INSTRUCTIONS

HOW TO ORDER SERVICE PARTS

In order to prevent delay, too much communication and to have your orders filled correctly, quickly, and at the least possible cost, the following is the correct procedure to use to order replacement parts.

WHEN ORDERING PARTS

Contact your authorized Yale Industrial Truck Dealer giving them the following information:

1. Your Purchase order number.
2. Complete addresses for sending the invoice and parts.
3. Tell us how you want your parts sent. If we do not get this information, we will send the parts using the lowest priced method.
4. Correct part number(s) and description(s). Use your parts manual as a reference.
5. Model and serial number of the truck.

TECHNICAL SERVICE PUBLICATIONS

Technical literature, with detailed information, is available at a nominal fee to assist users to effectively maintain Yale Industrial Trucks in a safe, useful condition. Part Manuals with complete replacement parts identification, Service Maintenance Manuals which provide service and overhaul procedures and additional copies of the Operating Manual can be obtained from your Yale Industrial Truck Dealer.

To provide instructions for safely operating and servicing Yale Industrial Trucks, each truck is equipped with an operators manual. It describes various operating techniques and safety warnings to the operator. It contains a guide to safe maintenance practices and recommended schedules for maintenance. If the

operators manual is missing from any Yale Industrial Truck, it should be replaced. Replacement copies are available for a nominal fee from your Yale Dealer.

OPERATOR TRAINING

The Yale "Basic Operator Training" program helps industrial truck users increase their materials handling production and safety through correct lift truck operation, training, and motivation. The Yale program is based upon real life experience – not theoretical concepts. We developed a "complete" program that is totally self-contained – incorporating the most modern instructional techniques including elements of self-study, audio-visual support (both video and slides), and classroom study.

SERVICE TRAINING COURSE

Operators and Yale dealer service technicians can improve their technical ability for maintaining and repairing Yale Industrial Trucks, which decreases repair time and cost, by taking Yale Service Training courses. Different types of mechanical, electric, and electronic subjects are available. Courses can be held at customer or Dealer locations in addition to regularly scheduled courses which are held at Yale Corporate Headquarters in Greenville, NC.

SERVICE TRAINING MATERIALS

Your own service training can be supported through a complete line of Yale Service Training materials. An Index is available from your Yale Dealer which lists textbooks, audio-visual programs and films. These materials will provide your training staff with everything necessary for training your group.

For additional information or assistance in obtaining these user support publications and programs, contact:

Yale Materials Handling Corporation
1400 Sullivan Drive
Caller No. 12011
Greenville, NC 27834-2011



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