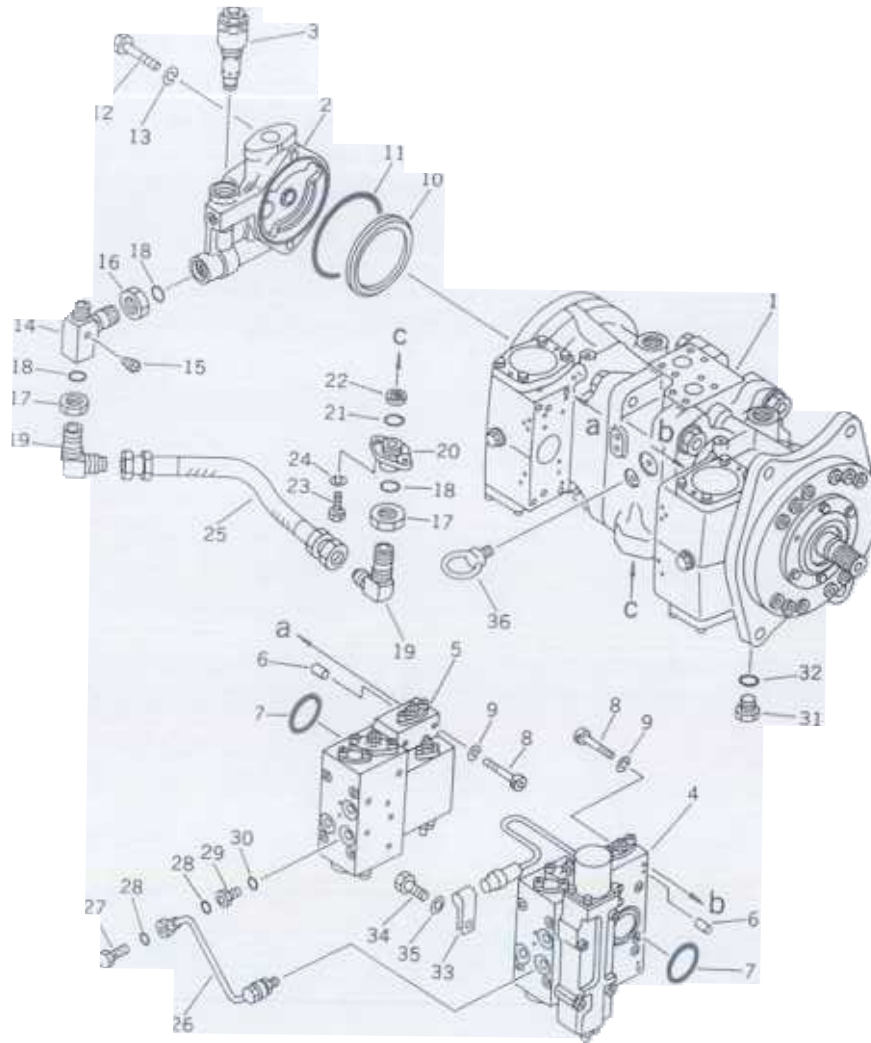


WORK EQUIPMENT CONTROL SYSTEM

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RELIEF VALVE	6018 ..	242
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CONTROL VALVE, L.H. (2/4)	6212 ..	254
CONTROL VALVE, L.H. (3/4)	6213 ..	258
CONTROL VALVE, L.H. (4/4)	6214 ..	262
CONTROL VALVE, R.H. (1/4)	6215 ..	266
CONTROL VALVE, R.H. (2/4)	6216 ..	270
CONTROL VALVE, R.H. (3/4)	6217 ..	274
CONTROL VALVE, R.H. (4/4)	6218 ..	278
BOOM CYLINDER	6401 ..	280
ARM CYLINDER	6403 ..	284
BUCKET CYLINDER	6405 ..	288
HYDRAULIC PIPING (TANK TO PUMP)	6501 ..	292
HYDRAULIC PIPING (PUMP TO VALVE)	6502 ..	294
HYDRAULIC PIPING (VALVE TO VALVE)	6503 ..	296
HYDRAULIC PIPING (VALVE TO TANK AND OIL COOLER)	6504 ..	300
HYDRAULIC PIPING (VALVE TO/FROM SOLENOID VALVE)	6506 ..	302
HYDRAULIC PIPING (VALVE TO BOOM CYLINDER)	6511 ..	304
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ADDITIONAL HYDRAULIC CIRCUIT (1/2) (ATTACHMENT SIDE)	6521 ..	310
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CONTROL LINKAGE (1/2) (ADDITIONAL HYDRAULIC CIRCUIT)	6527 ..	322
CONTROL LINKAGE (2/2) (ADDITIONAL HYDRAULIC CIRCUIT)	6529 ..	324

FIG. 6001 HYDRAULIC PUMP UNIT



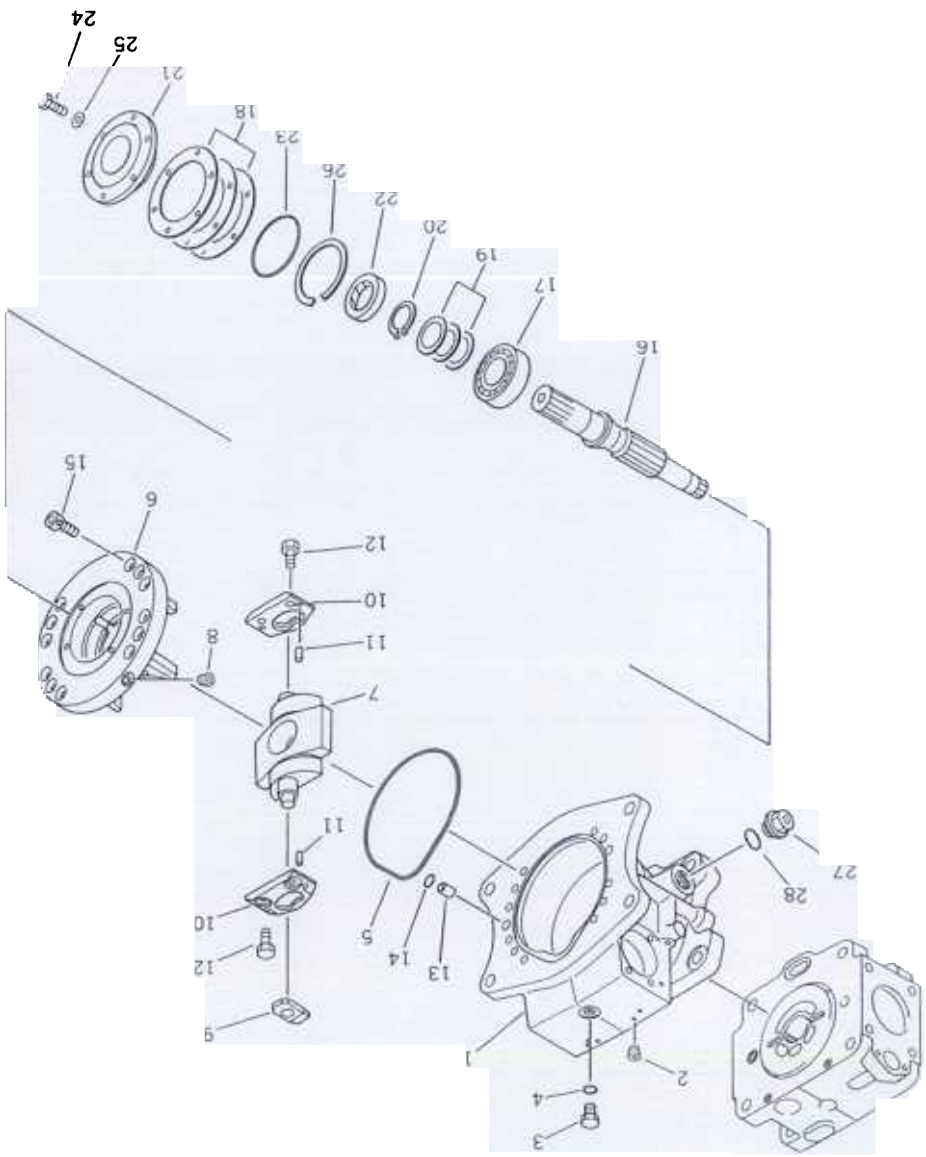
INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO. PC180LC-3	SERIAL NO.
	708-25-02021	HYDRAULIC PUMP ASS'Y (HPV71 + 71) ...		1001 -	
		<i>THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.</i>			
1	(708-25-02120)	• HYDRAULIC PUMP SUB ASS'Y	1	1001 -	
1	(708-25-02220)	• HYDRAULIC PUMP SUB ASS'Y	1	1001 -	
2	(704-24-28211)	• PUMP ASS'Y	1	1001 -	
3	(708-23-14801)	• RELIEF VALVE ASS'Y	1	1001 -	
4	(708-25-07170)	• SERVO VALVE ASS'Y, FRONT	1	1001 -	
5	(708-25-07270)	• SERVO VALVE ASS'Y, REAR	1	1001 -	
6	04020-00616	• PIN, DOWEL	4	1001 -	
7	07000-03048	• O-RING	2	1001 -	
8	708-25-19130	• BOLT	8	1001 -	
9	01602-20825	• WASHER, SPRING	8	1001 -	
10	708-25-22961	• COLLAR	1	1001 -	
11	704-28-02710	• O-RING	1	1001 -	
12	01010-31260	• BOLT	2	1001 -	
13	01643-31232	• WASHER	2	1001 -	
14	708-25-29120	• ELBOW	1	1001 -	
15	07042-20108	• PLUG	1	1001 -	
16	07239-12410	• NUT	1	1001 -	
17	07239-12009	• NUT	2	1001 -	
18	07002-02434	• O-RING	1	1001 -	
19	07232-20422	• ELBOW	2	1001 -	
20	708-25-19120	• FLANGE	1	1001 -	
21	07002-02034	• O-RING	1	1001 -	
22	720-68-15240	• FILTER	1	1001 -	
23	01010-30820	• BOLT	2	1001 -	
24	01602-20825	• WASHER, SPRING	2	1001 -	
25	708-25-29110	• HOSE	1	1001 -	
26	708-25-29140	• TUBE	1	1001 -	
27	706-46-53180	• BOLT, EYE	2	1001 -	
28	07000-02012	• O-RING	4	1001 -	
29	706-46-53260	• PLUG	2	1001 -	
30	07002-01423	• O-RING	2	1001 -	
31	07040-02412	• PLUG	2	1001 -	

FIG NO. 6001

FIG. NO. 6001

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
32	07002-02434	* O-RING	2	1001—	
33	08036-21814	* CLIP	2	1001—	
34	01010-30812	* BOLT	1	1001—	
35	01843-30823	* WASHER	1	1001—	
36	04350-01222	* BOLT, EYE	1	1001—	

FIG. 6002 HYDRAULIC PUMP, FRONT (1/2)

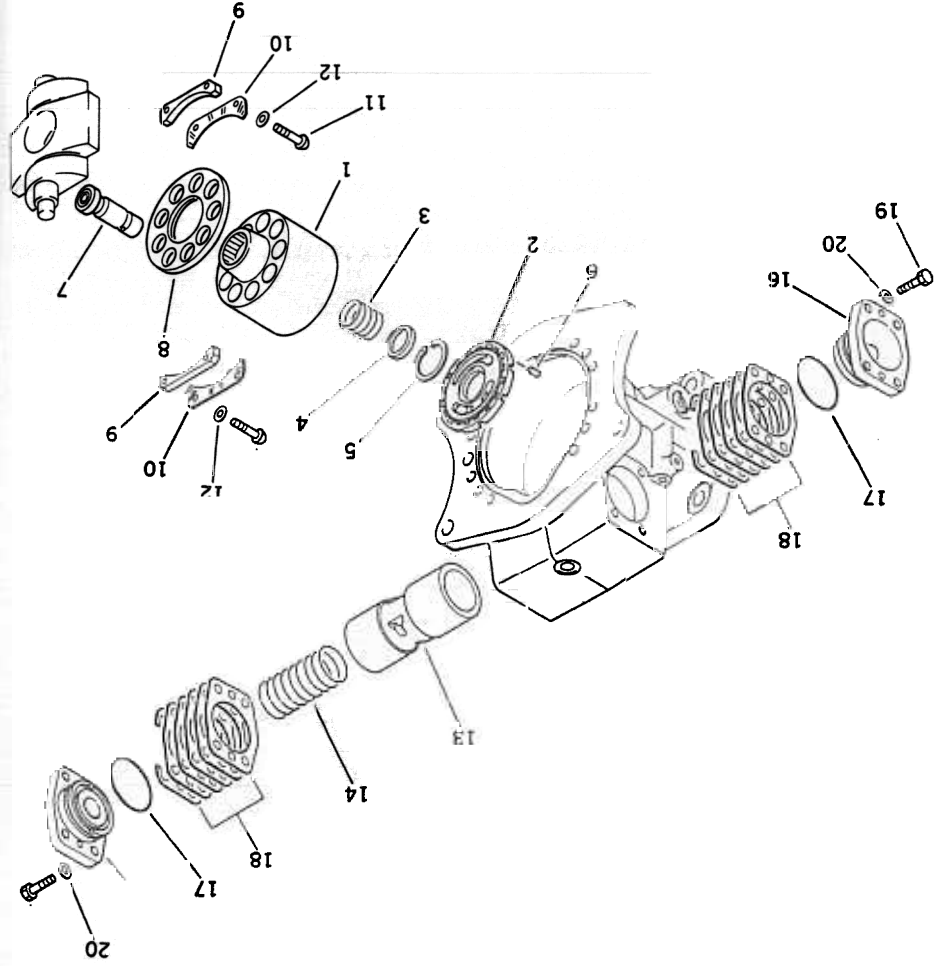


INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO. PC180LC-3	SERIAL NO.
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1		1001-
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.			
	708-25-02120	HYDRAULIC PUMP SUB ASS'Y	1		1001-
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.			
	708-25-02220	HYDRAULIC PUMP SUB ASS'Y	1		1001-
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.			
	1	(708-25-00370)	1		1001-
	1	(708-25-22110)	1		1001-
	2	(706-86-51180)	12		1001-
	3	720-68-19870	1		1001-
	4	07002-01223	1		1001-
	5	(708-25-12340)	1		1001-
	6	(708-25-00060)	1		1001-
	6	(708-25-22311)	1		1001-
	7	(708-25-23410)	1		1001-
	8	(708-25-51180)	1		1001-
	9	(708-25-14120)	1		1001-
	10	(708-25-12360)	2		1001-
	11	(04020-00820)	4		1001-
	12	(01010-30816)	4		1001-
	13	(708-25-12330)	1		1001-
	14	(07000-12015)	1		1001-
	15	(708-25-12350)	12		1001-
	16	(708-25-22711)	1		1001-
	17	(708-25-12731)	1		1001-
	18	(708-25-05130)	1		1001-
	18	(708-25-12930)	2		1001-
	18	(708-25-12940)	1		1001-
	19	(708-25-05010)	1		1001-
	19	(708-25-12760)	1		1001-
	19	(708-25-12770)	1		1001-
	19	(708-25-12780)	1		1001-
		 WASHER, 2.2MM			
		 WASHER, 2.1MM			
		 WASHER, 2.0MM			
		 WASHER, KIT			
		 SHIM, 0.1MM			
		 SHIM, 0.2MM			
		 SHIM, KIT			
		 BEARING			
		 SHAFT			
		 BOLT			
		 O-RING			
		 JOINT			
		 SCREW			
		 PIN			
		 PLATE			
		 SLIDER			
		 PLUG			
		 ROCKER, CAM			
		 CRADLE, FRONT			
		 CRADLE ASS'Y, FRONT			
		 O-RING			
		 O-RING			
		 PLUG			
		 PLUG			
		 CASE, FRONT			
		 CASE ASS'Y, FRONT			

FIG. NO. 8002

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
20	(* 708-25-12790)	***RING, SNAP.....	1	1001 -	
21	(* 708-25-12811)	***HOUSING.....	1	1001 -	
22	708-25-12980	***SEAL, OIL.....	1	1001 -	
23	07000-02080	***O-RING.....	1	1001 -	
24	01010-30820	***BOLT.....	6	1001 -	
25	01843-30823	***WASHER.....	6	1001 -	
26	(* 708-25-12870)	***RING.....	1	1001 -	
27	07040-02412	***PLUG.....	1	1001 -	
28	07002-02434	***O-RING.....	1	1001 -	

FIG. 6003 HYDRAULIC PUMP, FRONT (2/2)

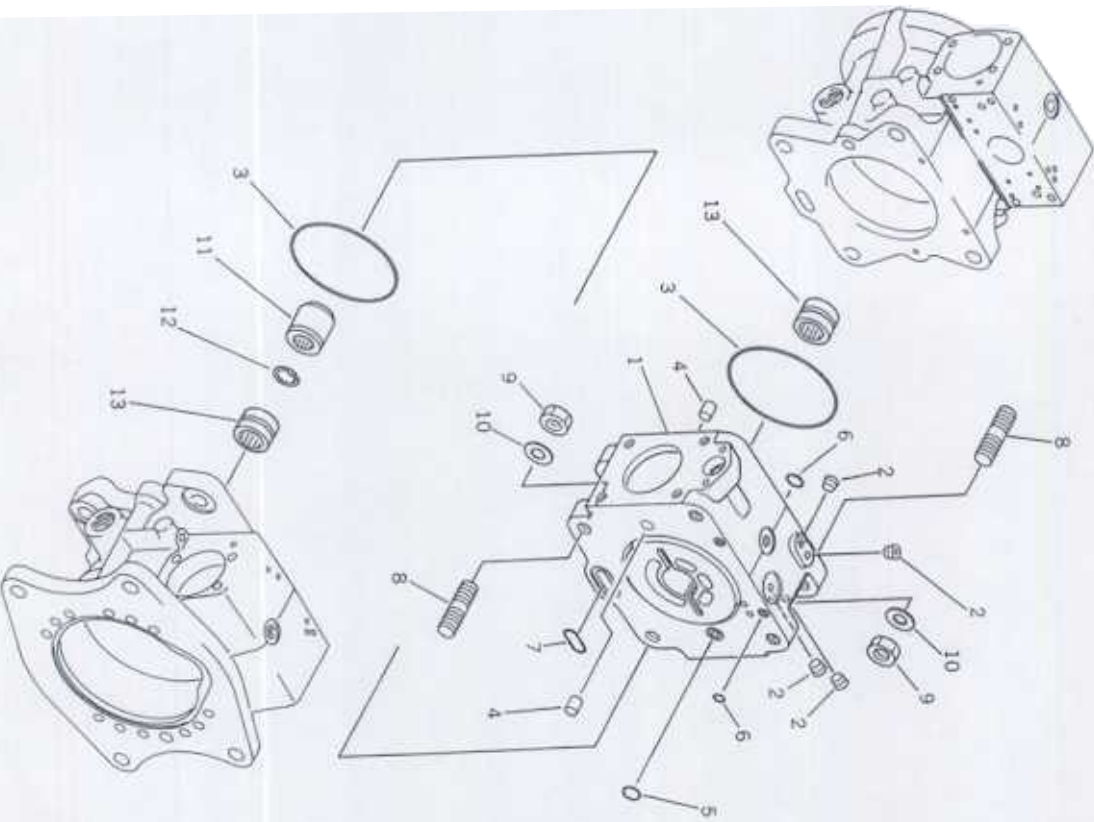


INDEX NO.	PART NO.	DESCRIPTION	Q.TY	SERIAL NO. PC180LC-3	SERIAL NO.
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1001-		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.			
	(708-25-02120)	• HYDRAULIC PUMP SUB ASS'Y	1001-		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.			
	(708-25-02220)	• HYDRAULIC PUMP SUB ASS'Y	1001-		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.			
	(708-25-00010)	• BLOCK ASS'Y	1001-		
	1 (*708-25-13151)	••• BLOCK, CYLINDER	1001-		
	2 (*708-25-13210)	••• PLATE, VALVE	1001-		
	3 (*708-25-13130)	••• SPRING	1001-		
	4 (*708-25-13120)	••• WASHER	1001-		
	5 (*708-25-13140)	••• RING, SNAP	1001-		
	6 (*720-68-19610)	••• PIN	1001-		
	7 (*708-25-13311)	••• PISTON SUB ASS'Y	1001-		
	8 (*708-25-13422)	••• RETAINER, SHOE	1001-		
	9 (*708-25-05080)	••• SPACER KIT	1001-		
	9 (*708-25-13511)	••• SPACER, 11.575MM	1001-		
	9 (*708-25-13521)	••• SPACER, 11.540MM	1001-		
	9 (*708-25-13531)	••• SPACER, 11.560MM	1001-		
	10 (*708-25-13441)	••• RETAINER, BEARING	1001-		
	11 (*708-25-13470)	••• SCREW	1001-		
	12 (*01843-30623)	••• WASHER	1001-		
	13 (*708-25-14111)	••• PISTON	1001-		
	14 708-25-14130	••• SPRING	1001-		
	15 (*708-25-24110)	••• CAP	1001-		
	16 (*708-25-14150)	••• CAP	1001-		
	17 07000-02065	••• O-RING	1001-		
	18 (*708-25-05050)	••• SHIM KIT	1001-		
	18 (*708-25-14190)	••• SHIM, 0.10MM	1001-		
	18 (*708-25-14180)	••• SHIM, 0.10MM	1001-		
	18 (*708-25-14170)	••• SHIM, 0.20MM	1001-		
	18 (*708-25-14160)	••• SHIM, 0.50MM	1001-		

FIG. NO. 6003

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
19	01010-31035	***BOLT.....	8	1001 -	
20	01843-31032	***WASHER.....	8	1001 -	

FIG. 6004 HYDRAULIC PUMP, END CAP



INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PCT180LC-3	SERIAL NO.
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(708-25-02021) HYDRAULIC PUMP ASS'Y (HPV71 + 71) 1 1001 -

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6003.

(708-25-02120) HYDRAULIC PUMP SUB ASS'Y 1 1001 -

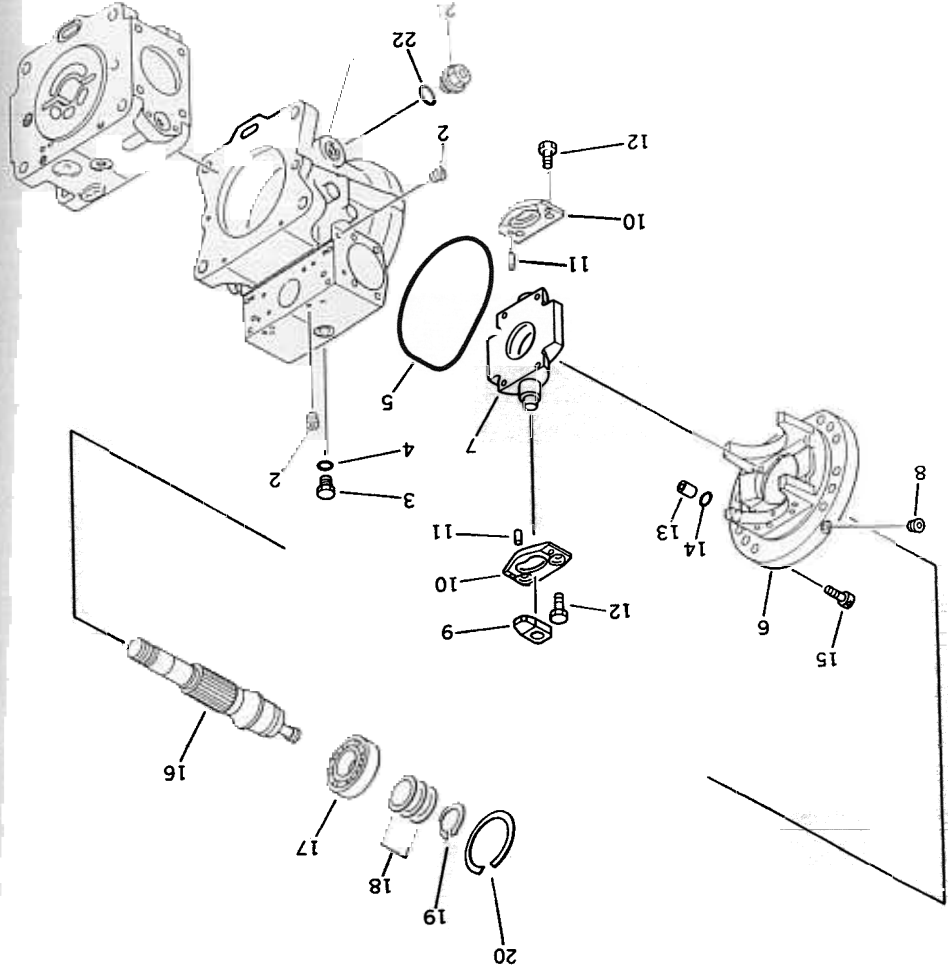
THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.

(708-25-02220) HYDRAULIC PUMP SUB ASS'Y 1 1001 -

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.

1	(+708-25-00120)	*** END CAP ASS'Y	1	1001 -
2	(+708-25-22511)	*** CAP, END	1	1001 -
3	(+720-86-511B0)	*** O-RING	8	1001 -
4	(+07000-02135)	*** O-RING	2	1001 -
5	(+6130-21-1910)	*** JOINT	2	1001 -
6	(+07000-12015)	*** O-RING	2	1001 -
7	(+07000-11009)	*** O-RING	4	1001 -
8	(+07000-03032)	*** O-RING	2	1001 -
9	(+01140-81645)	*** STUD	8	1001 -
10	(+01582-01613)	*** NUT	8	1001 -
11	(+01643-31645)	*** WASHER	8	1001 -
12	(+708-25-22730)	*** COUPLING	1	1001 -
13	(+708-25-22740)	*** RING, SNAP	1	1001 -
14	(+708-25-12740)	*** BEARING	2	1001 -

FIG. 6005 HYDRAULIC PUMP, REAR (1/2



INDEX NO.	PART NO.	DESCRIPTION
1	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)
1001-		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.
1001-	(708-25-02120)	HYDRAULIC PUMP SUB ASS'Y
1001-		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.
1001-	(708-25-02220)	HYDRAULIC PUMP SUB ASS'Y
1001-		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.
1001-		1 CASE ASS'Y, REAR
1001-		1 CASE, REAR
1001-		2 PLUG
1001-		3 720-68-19870
1001-		4 07002-01223
1001-		5 O-RING
1001-		6 O-RING
1001-		6 (708-25-00060)
1001-		6 (708-25-22321)
1001-		7 (708-25-23410)
1001-		8 (706-86-51180)
1001-		9 (708-25-14120)
1001-		10 (708-25-12360)
1001-		11 (04020-00820)
1001-		12 (01010-30816)
1001-		13 (708-23-12330)
1001-		14 (07000-12015)
1001-		15 (708-25-12350)
1001-		16 (708-25-22721)
1001-		17 (708-25-12731)
1001-		18 (708-25-05010)
1001-		19 (708-25-12760)
1001-		20 (708-25-12770)
1001-		21 (708-25-12780)
1001-		22 (708-25-12970)
1001-		23 07044-02412

- ... PLUG
- ... RING, SNAP
- ... RING, SNAP
- ... WASHER, 2.2MM
- ... WASHER, 2.1MM
- ... WASHER, 2.0MM
- ... WASHER KIT
- ... BEARING
- ... SHAFT
- ... BOLT
- ... O-RING
- ... JOINT
- ... BOLT
- ... PIN
- ... PLATE
- ... SLIDER
- ... PLUG
- ... HOCKER, CAM
- ... CRADLE, REAR
- ... CRADLE ASS'Y, REAR
- ... O-RING
- ... O-RING
- ... PLUG
- ... CASE, REAR
- ... CASE ASS'Y, REAR

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.

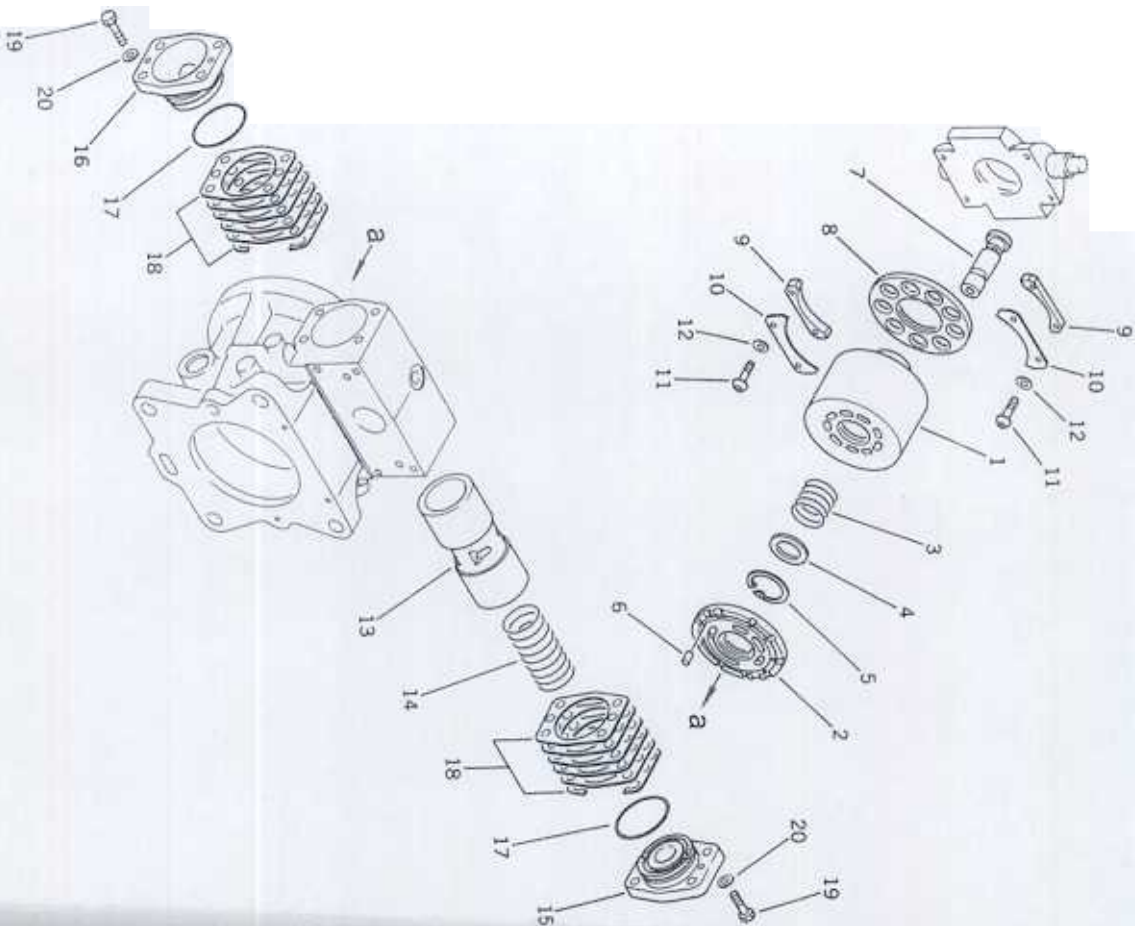
FIG NO. 6005	SERIAL NO.	Q'TY	DESCRIPTION	PART NO.	INDEX NO.
	PC180LC-3				

NO. 6006

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
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22	07002-02434	***O-RING	1	1001-	
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FIG. 6006 HYDRAULIC PUMP, REAR (2/2)



INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
-----------	----------	-------------	-----	----------------------	------------

(708-25-02021) HYDRAULIC PUMP ASSY (HPV71 + 71) 1 1001 -

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6002.

(708-25-02120) HYDRAULIC PUMP SUB ASSY 1 1001 -

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006, 6018, AND 6021.

(708-25-02220) HYDRAULIC PUMP SUB ASSY 1 1001 -

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6002 TO 6006.

(* 708-25-00020) BLOCK ASSY 1 1001 -

(* 708-25-13151) BLOCK CYLINDER 1 1001 -

(* 708-25-13220) PLATE VALVE 1 1001 -

(* 708-25-13130) SPRING 1 1001 -

(* 708-25-13120) WASHER 1 1001 -

(* 708-25-13140) RING SNAP 1 1001 -

(* 720-58-19810) PIN 1 1001 -

(* 708-25-13311) PISTON SUB ASSY 9 1001 -

(* 708-25-13422) RETAINER SHOE 1 1001 -

(* 708-25-05080) SPACER KIT 2 1001 -

(* 708-25-13511) SPACER 11.57MM 1 1001 -

(* 708-25-13521) SPACER 11.540MM 1 1001 -

(* 708-25-13531) SPACER 11.560MM 1 1001 -

(* 708-25-13441) RETAINER BEARING 2 1001 -

(* 708-25-13470) SCREW 4 1001 -

(* 01643-30623) WASHER 4 1001 -

(* 708-25-14120) PISTON 1 1001 -

708-25-14130 SPRING 1 1001 -

(* 708-25-24110) CAP 1 1001 -

(* 708-25-14150) CAP 1 1001 -

01000-02065 O-RING 2 1001 -

(* 708-25-05050) SHIM KIT 2 1001 -

(* 708-25-14190) SHIM 0.10MM 4 1001 -

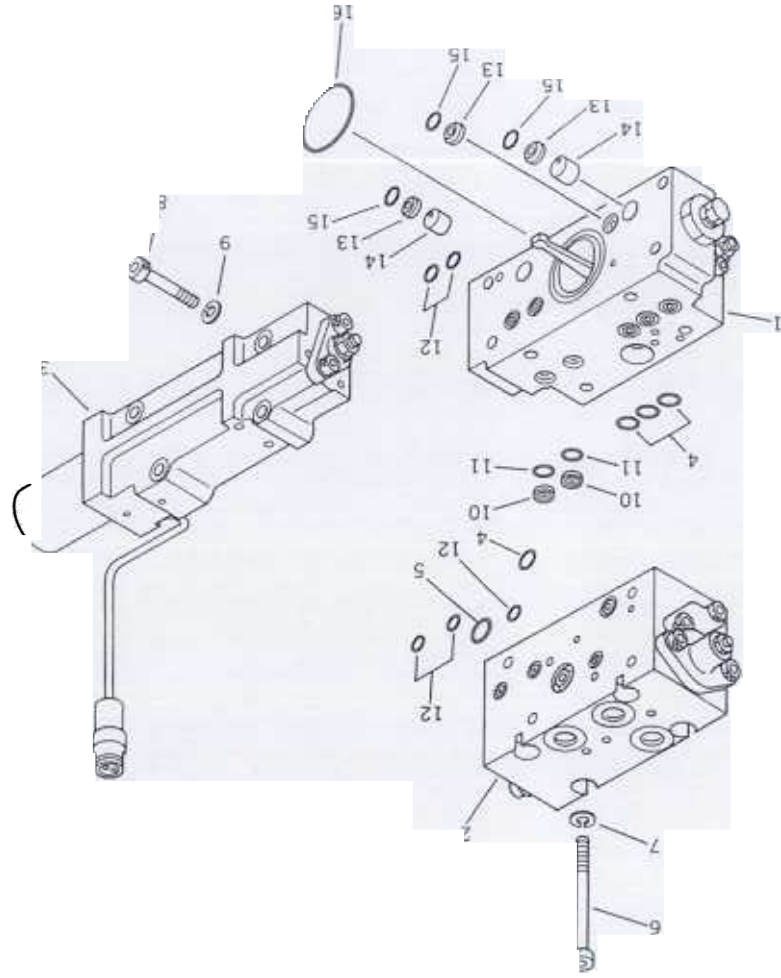
(* 708-25-14180) SHIM 0.10MM 2 1001 -

(* 708-25-14170) SHIM 0.20MM 2 1001 -

(* 708-25-14160) SHIM 0.50MM 3 1001 -

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
19	01016-31035	***BOLT	8	1001 -	
20	01643-31032	***WASHER	8	1001 -	

FIG. 6011 SERVO VALVE, FRONT (1/2)



INDEX NO.	PART NO.	DESCRIPTION	Q.TY	SERIAL NO. PC180LC-3	SERIAL NO.
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(708-25-02021) HYDRAULIC PUMP ASS'Y (HPV71 + 71)

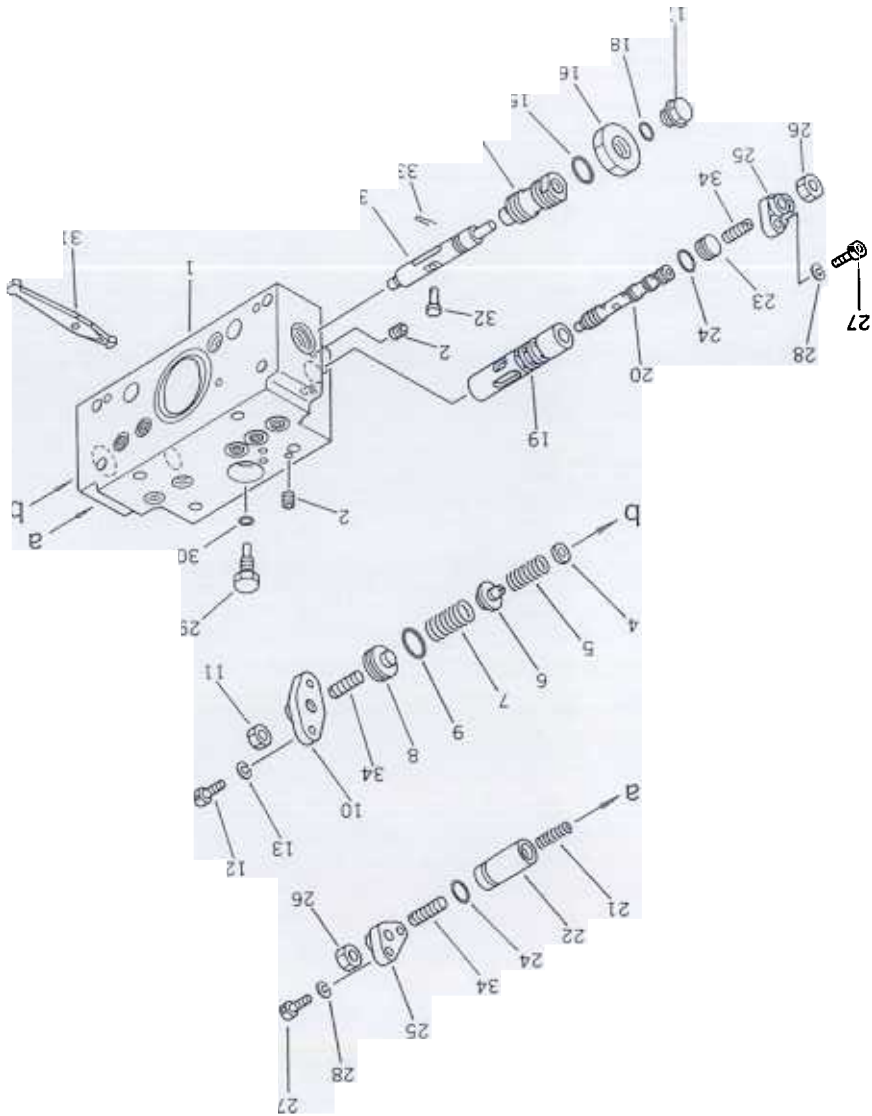
THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.

708-25-07170 • SERVO VALVE ASS'Y, FRONT

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS. 6011 TO 6014.

1	(708-25-25200)	• SERVO VALVE SUB ASS'Y, FRONT	1	1001-
2	(708-25-07570)	• CO AND NC VALVE ASS'Y	1	1001-
3	(708-25-28100)	• T.V.C. VALVE ASS'Y	1	1001-
4	07000-02011	• O-RING	4	1001-
5	07000-02018	• O-RING	1	1001-
6	708-25-19160	• BOLT	4	1001-
7	01602-20825	• WASHER, SPRING	4	1001-
8	01252-30850	• BOLT	4	1001-
9	708-25-19130	• WASHER, SPRING	4	1001-
10	720-68-11920	• FILTER	2	1001-
11	07000-12010	• O-RING	2	1001-
12	07000-11009	• O-RING	5	1001-
13	720-68-11920	• FILTER	3	1001-
14	708-25-19150	• ORIFICE	2	1001-
15	07000-12010	• O-RING	3	1001-
16	07000-03048	• O-RING	1	1001-

FIG. 6012 SERVO VALVE, FRONT (2/2)



INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO.	SERIAL NO.
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.			
	(708-25-07170)	SERVO VALVE ASS'Y, FRONT	1	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS. 6011 TO 6014.			
	708-25-25200	SERVO VALVE SUB ASS'Y, FRONT	1	1001-	
		*** BODY ASS'Y	1	1001-	
	1	(*708-25-16110)	1	1001-	
	2	(*708-25-15350)	1	1001-	
	3	(*708-25-15120)	1	1001-	
	4	(*708-25-15130)	1	1001-	
	5	(*708-25-25110)	1	1001-	
	6	(*708-23-15120)	1	1001-	
	7	(*708-23-15130)	1	1001-	
	8	(*708-23-15160)	1	1001-	
	9	(*7000-02018)	1	1001-	
	10	(*708-25-15150)	1	1001-	
	11	(*01580-10806)	1	1001-	
	12	(*708-25-15320)	2	1001-	
	13	(*01602-20619)	2	1001-	
	14	(*708-25-15171)	1	1001-	
	15	(*07002-02034)	1	1001-	
	16	(*07239-12009)	1	1001-	
	17	(*07040-11007)	1	1001-	
	18	(*07002-01023)	1	1001-	
	19	(*708-25-15180)	1	1001-	
	20	(*708-25-15280)	1	1001-	
	21	(*708-25-15310)	1	1001-	
	22	(*708-25-15330)	1	1001-	
	23	(*708-25-15430)	1	1001-	
	24	(*07000-02012)	2	1001-	
	25	(*708-25-15250)	2	1001-	
	26	(*01580-10806)	2	1001-	
	27	(*708-25-15320)	4	1001-	
		*** BOLT			
		*** NUT			
		*** COVER			
		*** O-RING			
		*** PLUG			
		*** SPRING			
		*** SEAT			
		*** PISTON			
		*** PLUG			
		*** BODY			
		*** BODY ASS'Y			
		*** SERVO VALVE SUB ASS'Y, FRONT			
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS. 6011 TO 6014.			
		SERVO VALVE ASS'Y, FRONT	1	1001-	
		HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1	1001-	

FIG. NO. 6012

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. FC180LC-3	SERIAL NO.
28	(# 01602-20619)	*** WASHER, SPRING	4	1001 -	
29	(# 708-25-15260)	*** PLUG	1	1001 -	
30	(# 07002-00823)	*** O-RING	1	1001 -	
31	(# 708-25-15270)	*** ARM	1	1001 -	
32	(# 04205-00514)	*** PIN	1	1001 -	
33	(# 04050-01210)	*** PIN, COTTER	1	1001 -	
34	(# 708-25-15340)	*** SCREW	3	1001 -	

INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO.
		PC180LC-3		

1001-	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.		
1001-	(708-25-07170)	SERVO VALVE ASS'Y, FRONT		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6011 TO 6014.		

1001-	708-25-07570	CO AND NC VALVE ASS'Y	1	
1001-	(*708-23-07042)	BODY ASS'Y	1	
1001-	(*708-25-17111)	BODY	1	
1001-	2	PLUG	15	
1001-	3	PLUG	1	
1001-	4	O-RING	1	
1001-	5	COVER	1	
1001-	6	NUT	1	
1001-	7	SPOOL	2	
1001-	8	SLEEVE	1	
1001-	9	PISTON	1	
1001-	10	COVER		
1001-	11	O-RING		
1001-	12	SEAT		
1001-	13	SPRING		
1001-	14	SLEEVE		
1001-	15	PISTON		
1001-	16	O-RING		
1001-	17	RING, BACK-UP		
1001-	18	SEAT		
1001-	19	SPRING		
1001-	20	SEAT		
1001-	21	COVER		
1001-	22	O-RING		
1001-	23	PLUG		
1001-	24	O-RING		
1001-	25	BOLT	2	
1001-	26	WASHER, SPRING	4	
1001-	27	NUT	1	

FIG. 6013. CUT OFF AND NEGATIVE CONTROL VALVE, FRONT

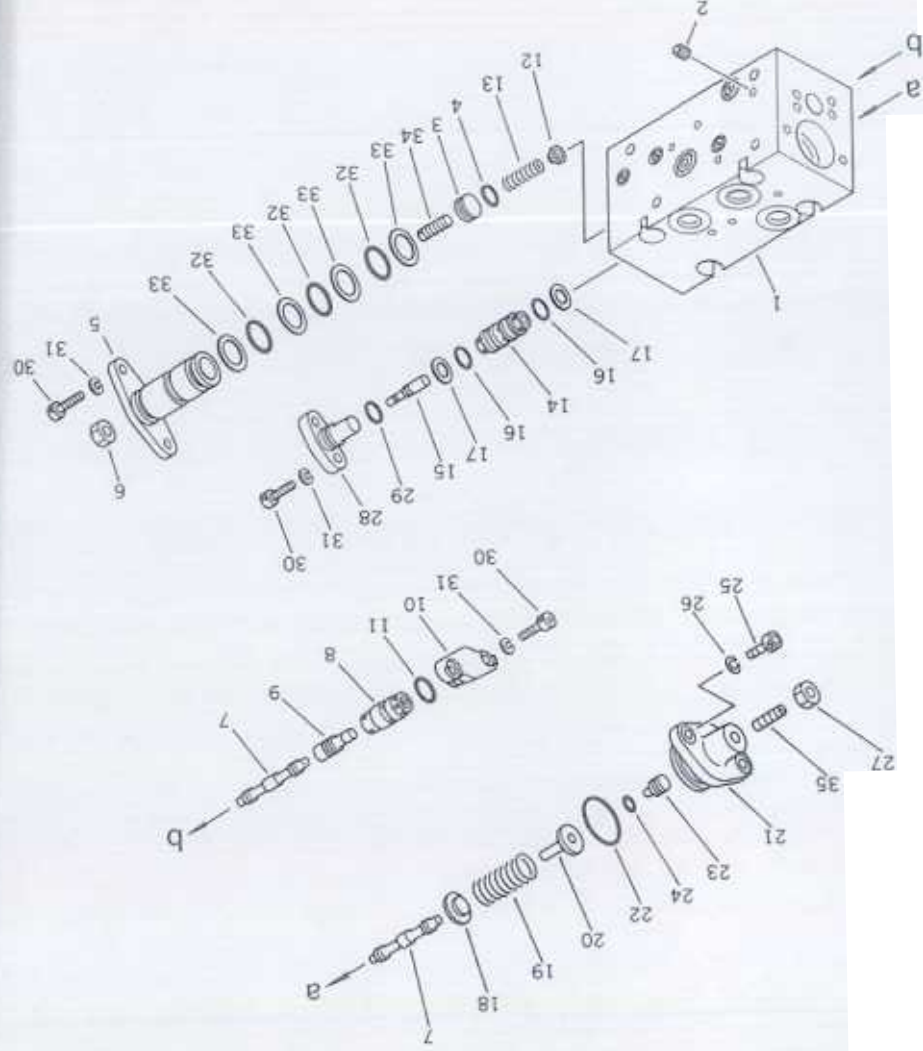
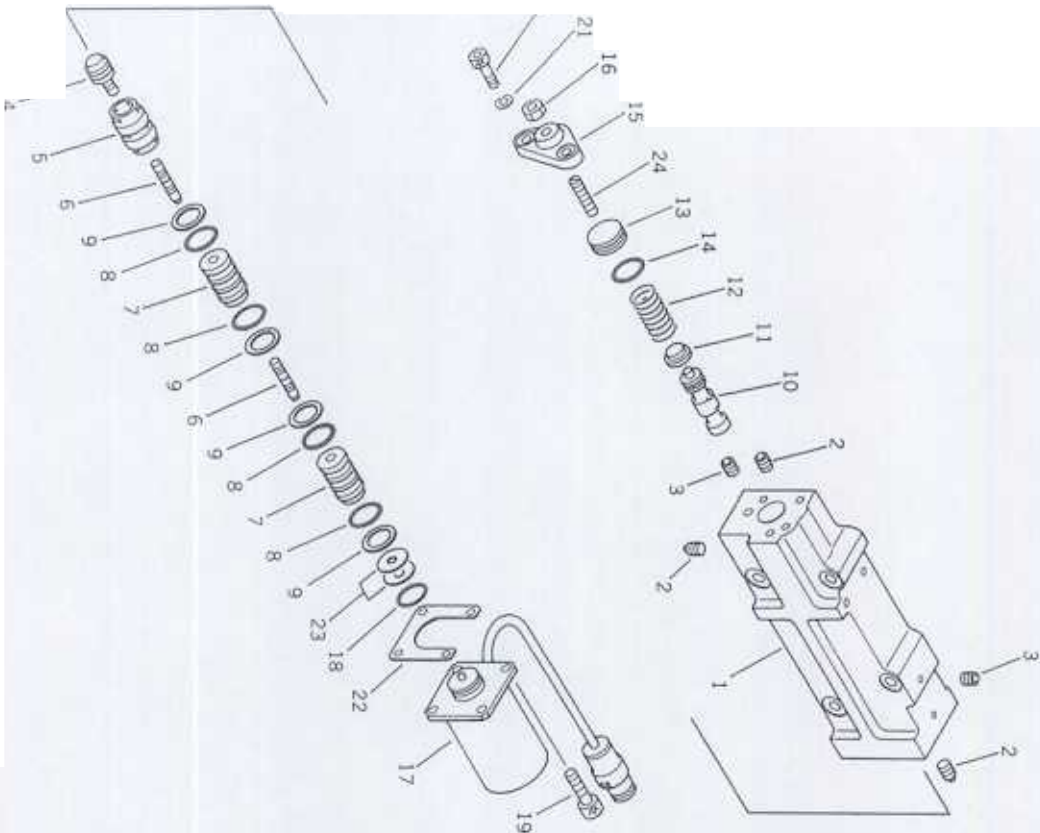


FIG NO. 6013

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
28	(*708-25-17230)	***COVER	1	1001-	
29	(*07000-02012)	***O-RING	1	1001-	
30	(*01252-30616)	***BOLT	6	1001-	
31	(*01602-20619)	***WASHER SPRING	6	1001-	
32	(*07000-12021)	***O-RING	3	1001-	
33	(*07001-02021)	***RING, BACK-UP	4	1001-	
34	(*708-25-17430)	***SCREW	1	1001-	
35	(*708-25-15340)	***SCREW	1	1001-	

FIG. 6014 TORQUE VARIABLE CONTROL VALVE



INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PC180LC-3	SERIAL NO.
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(708-25-02021) HYDRAULIC PUMP ASS'Y (REV 1 + 71) 1 1001-

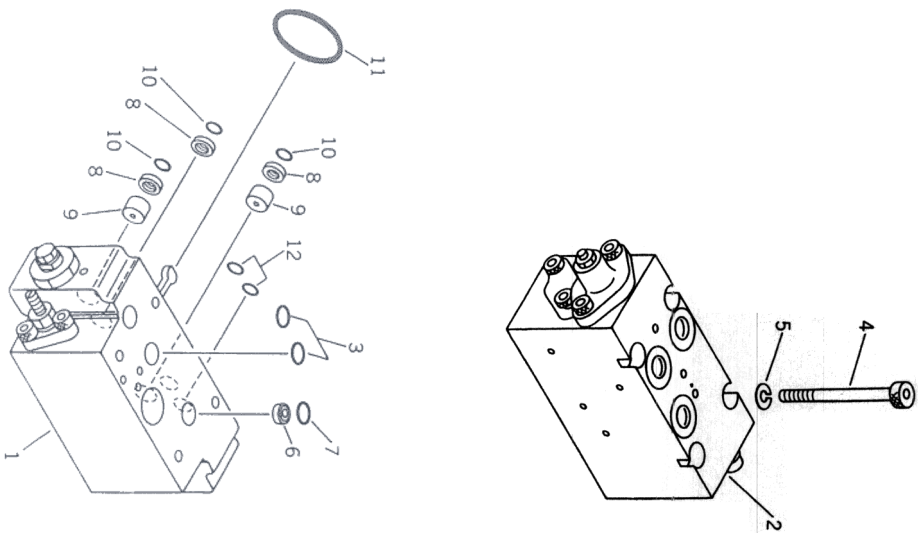
THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.

(708-25-07170) SERVO VALVE ASS'Y, FRONT 1 1001-

THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6011 TO 6014.

708-25-23100	** T.V.C. VALVE ASS'Y	1	1001-
1 (*708-23-07051)	*** BODY ASS'Y	1	1001-
1 (*708-23-18112)	*** BODY	1	1001-
2 (*720-88-19510)	*** PLUG	2	1001-
3 (*708-25-15350)	*** PLUG	12	1001-
4 (*708-23-18120)	*** PISTON	1	1001-
5 (*708-23-18130)	*** SLEEVE	1	1001-
6 (*708-23-18140)	*** PISTON	2	1001-
7 (*708-23-18150)	*** SLEEVE	2	1001-
8 (*07000-12016)	*** O-RING	4	1001-
9 (*07001-02016)	*** RING, BACK-UP	4	1001-
10 (*708-23-18161)	*** SPPOOL	1	1001-
11 (*708-23-18170)	*** SEAT	1	1001-
12 (*708-23-18181)	*** SPRING	1	1001-
13 (*708-23-15160)	*** PLUG	1	1001-
14 (*07000-02018)	*** O-RING	1	1001-
15 (*708-23-18210)	*** COVER	1	1001-
16 (*01590-10806)	*** NUT	1	1001-
17 708-23-18221	*** SOLENOID ASS'Y	1	1001-
18 07000-02016	*** O-RING	1	1001-
19 708-25-18250	*** BOLT	4	1001-
20 (*708-25-15320)	*** BOLT	2	1001-
21 (*01602-20619)	*** WASHER, SPRING	2	1001-
22 (*708-25-18571)	*** SHIM, 0.50MM	2	1001-
23 (*708-25-18580)	*** SHIM, 0.50MM	2	1001-
24 (*708-25-15340)	*** SCREW	1	1001-

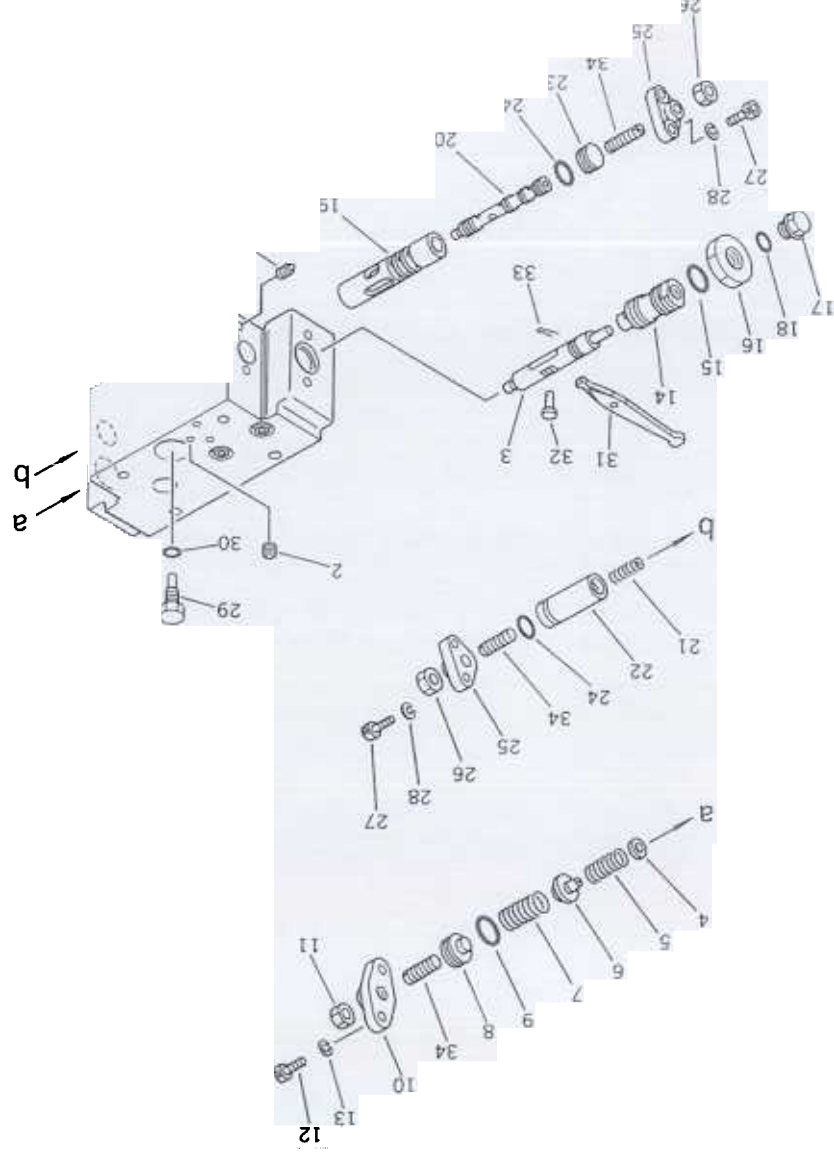
FIG. 6015 SERVO VALVE, REAR (1/2)



INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO. PC180LC-3	SERIAL NO.
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.			
	708-25-07270	SERVO VALVE ASS'Y, REAR	1	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6015 TO 6017.			
1	(708-25-26200)	SERVO VALVE ASS'Y, REAR	1	1001-	
2	(708-25-07670)	CO AND NC VALVE ASS'Y	1	1001-	
3	07000-02011	O-RING	2	1001-	
4	708-25-19160	BOLT	4	1001-	
5	01602-20825	WASHER SPRING	4	1001-	
6	720-68-11920	FILTER	2	1001-	
7	07000-12010	O-RING	2	1001-	
8	720-68-11920	FILTER	3	1001-	
9	708-25-19150	ORFICE	2	1001-	
10	07000-12010	O-RING	3	1001-	
11	07000-03048	O-RING	1	1001-	
12	07000-11009	O-RING	2	1001-	

FIG. 6015

FIG. 6016 SERVO VALVE, REAR (2/2)



INDEX NO.	PART NO	DESCRIPTION	Q'TY	SERIAL NO. PC180LC-3	SERIAL NO.
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 + 71)	1001-		
	(708-25-07270)	SERVO VALVE ASS'Y, REAR	1001-		
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.			
	708-25-26200	SERVO VALVE SUB ASS'Y, REAR	1001-		
	(708-25-15110)	BODY ASS'Y	1001-		
	(708-25-15120)	PISTON	1001-		
	(708-25-15130)	SEAT	1001-		
	(708-25-25110)	SPRING	1001-		
	(708-23-15120)	SEAT	1001-		
	(708-23-15130)	SPRING	1001-		
	(708-23-15160)	PLUG	1001-		
	(708-25-15150)	O-RING	1001-		
	(708-25-15150)	COVER	1001-		
	(01580-10806)	NUT	1001-		
	(708-25-15320)	BOLT	1001-		
	(01602-20619)	WASHER, SPRING	1001-		
	(708-25-15171)	PLUG	1001-		
	(07002-02034)	O-RING	1001-		
	(07239-12009)	NUT	1001-		
	(07040-11007)	PLUG	1001-		
	(07002-01023)	O-RING	1001-		
	(708-25-15180)	SLEEVE	1001-		
	(708-25-15280)	SPOOL	1001-		
	(708-25-15310)	SPRING	1001-		
	(708-25-15330)	SPACER	1001-		
	(708-25-15430)	PLUG	1001-		
	(07000-02012)	O-RING	1001-		
	(708-25-15250)	COVER	1001-		
	(01580-10806)	NUT	1001-		
	(708-25-15320)	BOLT	1001-		
	PC180LC-3				

FIG NO. 6016

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO. PCT180LC3	SERIAL NO.
28	(+01602-20619)	*** WASHER, SPRING	4	1001 -	
29	(+708-25-15260)	*** PLUG	1	1001 -	
30	(+07002-00923)	*** O-RING	1	1001 -	
31	(+708-25-15270)	*** ARM	1	1001 -	
32	(+04201-00514)	*** PIN	1	1001 -	
33	(+04050-01210)	*** PIN, COTTER	1	1001 -	
34	(+708-25-15340)	*** SCREW	3	1001 -	

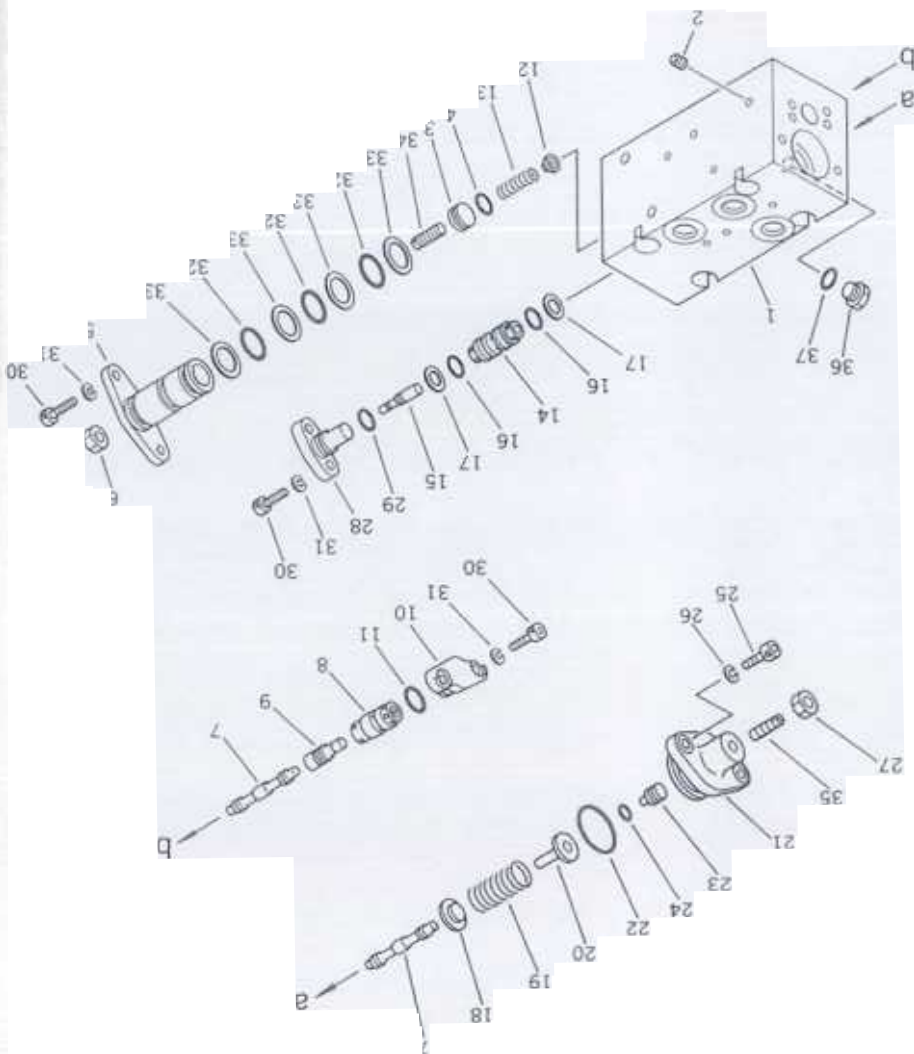


FIG. 6017 CUT OFF AND NEGATIVE CONTROL VALVE, REAR

INDEX NO.	PART NO.	DESCRIPTION	Q'TY	SERIAL NO. PC180LC-3
	(708-25-02021)	HYDRAULIC PUMP ASS'Y (HPV71 +71)	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS 6001 TO 6021.		
	(708-25-07270)	SERVO VALVE ASS'Y, REAR	1001-	
		THIS ASSEMBLY CONSISTS OF ALL PARTS SHOWN IN FIGS. 6015 TO 6017.		
	708-25-07670	CO AND NC VALVE ASS'Y	1001-	
	1 (*708-23-07032)	BODY ASS'Y	1001-	
	1 (*708-25-17111)	BODY	1001-	
	2 (*708-25-15350)	PLUG	16	1001-
	3 (*708-25-15420)	PLUG	1001-	
	4 (*07000-02010)	O-RING	1001-	
	5 (*708-25-17131)	COVER	1001-	
	6 (*01580-10806)	NUT	1001-	
	7 (*708-25-17140)	SPOOL	2	1001-
	8 (*708-25-17150)	SLEEVE	1001-	
	9 (*708-25-17180)	PISTON	1001-	
	10 (*708-25-17170)	COVER	1001-	
	11 (*07000-02014)	O-RING	1001-	
	12 (*708-25-17180)	SEAT	1001-	
	13 (*708-25-17190)	SPRING	1001-	
	14 (*708-25-17210)	SLEEVE	1001-	
	15 (*708-25-17220)	PISTON	1001-	
	16 (*07000-12012)	O-RING	2	1001-
	17 (*07001-02012)	RING, BACK-UP	2	1001-
	18 (*708-25-17320)	SEAT	1001-	
	19 (*708-25-17250)	SPRING	1001-	
	20 (*708-25-17260)	SEAT	1001-	
	21 (*708-25-17350)	COVER	1001-	
	22 (*07000-03028)	O-RING	1001-	
	23 (*708-25-17410)	PLUG	1001-	
	24 (*07000-01009)	O-RING	1001-	
	25 (*01252-30616)	BOLT	2	1001-
	26 (*01602-20619)	WASHER, SPRING	4	1001-
	27 (*01580-10806)	NUT	1001-	

FIG NO. 6017

FIG NO. 6017

INDEX NO.	PART NO.	DESCRIPTION	QTY	SERIAL NO.	PC180LC-3	SERIAL NO.
28	(*708-25-17230)	... COVER	1	1001-		
29	(*07000-02012)	... O-RING	1	1001-		
30	(*708-25-15320)	... BOLT	6	1001-		
31	(*01602-20619)	... WASHER, SPRING	6	1001-		
32	(*07000-12021)	... O-RING	3	1001-		
33	(*07001-02021)	... RING, BACK-UP	4	1001-		
34	(*708-25-17430)	... SCREW	1	1001-		
35	(*708-25-15340)	... SCREW	1	1001-		
36	07040-11007	... PLUG	1	1001-		
37	07002-01023	... O-RING	1	1001-		