

AL 140 - LIFT ARM HYDRAULICS (SN 11392 AND BEFORE)

Ref. No.	Part No.	Description	Qty.
1	055021	CLAMP/HOSE .75 X .41 HOLE DOU- BLE	2
2	075505	CLAMP/HOSE .81 X .41 HOLE	2
3	175823	CYL/HYD/TILT (see Page 54 for details)	1
4	176353	ST MC15-MBSPP06-L**	4
5	176358	ST MC10-MBSPP06-L**	4
6	176359	ST MC10-MBSPP08-L**	4
7	176364	90 FCS10-MC10-L**	2
8	176366	90 FCS15-MC15-L**	1
9	176480	COUPLER/MALE MC15	1
10	176481	COUPLER/FEMALE MC15	1
11	176527	TEE RUN MC15-MC15-FCS15-L**	2
12	176530	ST MC10-MBSPP04-L**	2
13	270371	HOSE/MP 5 X 1041MM*	1
14	184101	VALVE/SOL SV10-24 10T (see Page 50 for details)	2
15	271083	COVER/DUST MALE 08	1
16	271084	COVER/DUST FEMALE 08	1
17	271088	STRAP/BUNDLE/HOSE	1
18	271158	LOOMING/GUARD (0.705 FT)	1
20	271754	90 MC15-MABSPP08-L**	3
21	272667	BLOCK CUSTOM	3
22	273284	TUBE	1
23	273285	TUBE	1
24	273287	TUBE	1
25	273289	TUBE	1
26	273290	TUBE	1
27	273291	TUBE	1
28	273292	TUBE	1
29	273293	TUBE	1
30	273294	TUBE	1
31	273401	TUBE/HYD RETURN	1
32	273533	VALVE/CONTROL (see Page 48 for details)	1

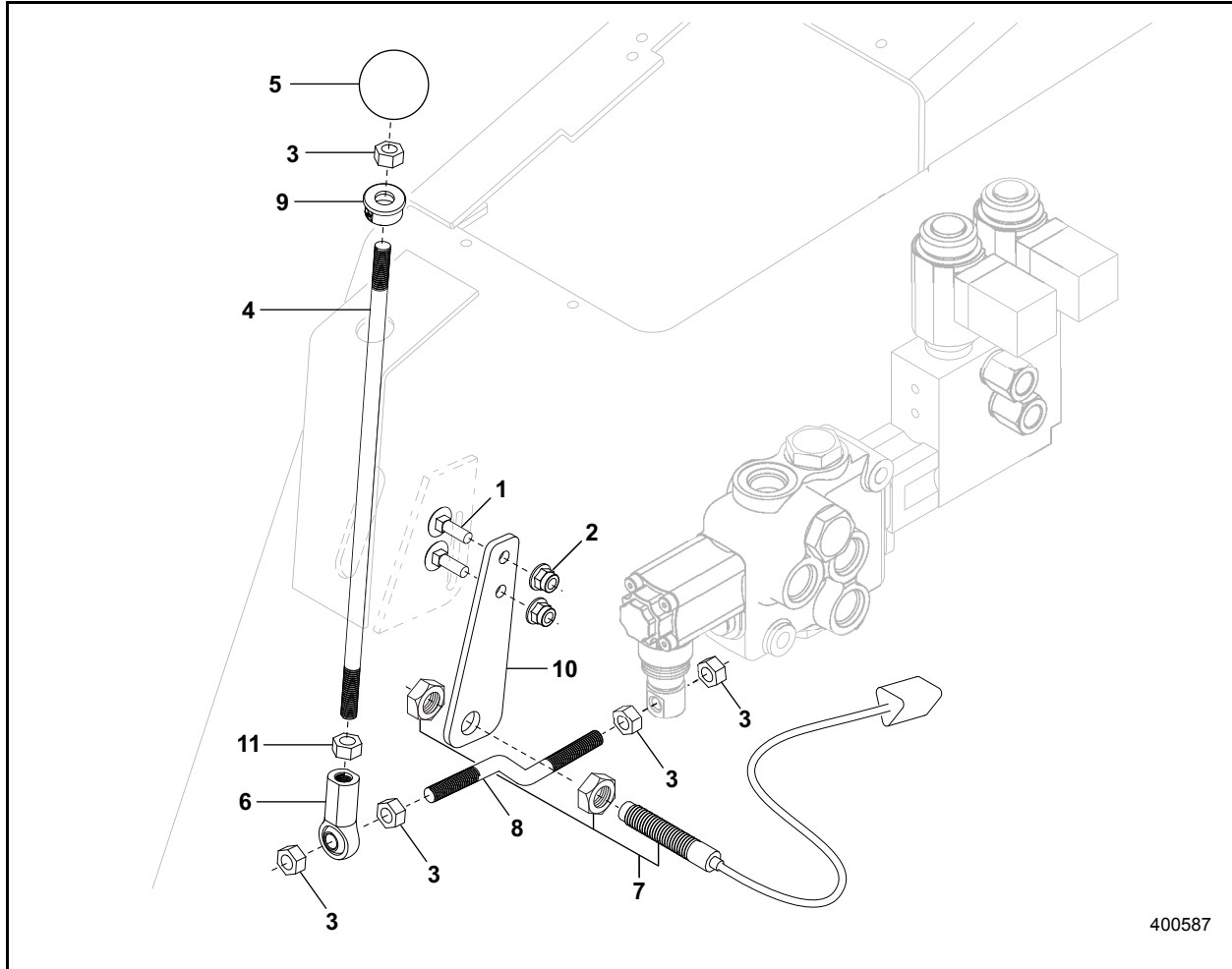
Ref. No.	Part No.	Description	Qty.
33	273763	BLOCK	2
34	273834	BLOCK	2
35	273838	BLOCK	2
36	273875	HOSE/MP 5 X 1855MM*	1
37	273876	HOSE/MP 5 X 1397MM*	1
38	273880	HOSE/MP 5 X 800MM*	2
39	273882	HOSE/MP 8 X 2615MM*	2
40	274134	SHAFT/JOYSTICK	1
41	274255	CYL/HYD/LIFT (see Page 53 for details)	1
42	274262	VALVE/AUXILIARY (see Page 49 for details)	1
43	274401	ST MC10-MORB10-L**	4
44	274439	HANDLE/JOYSTICK	1
45	651448	LN INS M10-1.5 C8 ZY DIN6924	3
46	651450	HN M12-1.75 C10 ZY DIN934	1
47	651629	CS M8-1.25X110 C10.9 ZY DIN931	2
48	651705	LN INST FL M6-1.00 C8 ZY DIN6926	5
49	651706	LN INST FL M8-1.25 C8 ZY DIN6926	4
50	651715	SCREW/THH TF M8-1.25X40 ZY DIN7500D	3
51	651727	CB M8-1.25X60 C8.8 ZY DIN603	2
52	651752	CS M6-1.00X100 C8.8 ZY DIN931	2
53	651759	CS FL M6-1.00X30 C8.8 ZY DIN1662	4
54	651802	CB M6-1.00X45 C4.6 ZY DIN603	3
55	656007	CS M10-1.5X25 C8.8 ZY DIN931	3

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

AL 140 - LIFT ARM

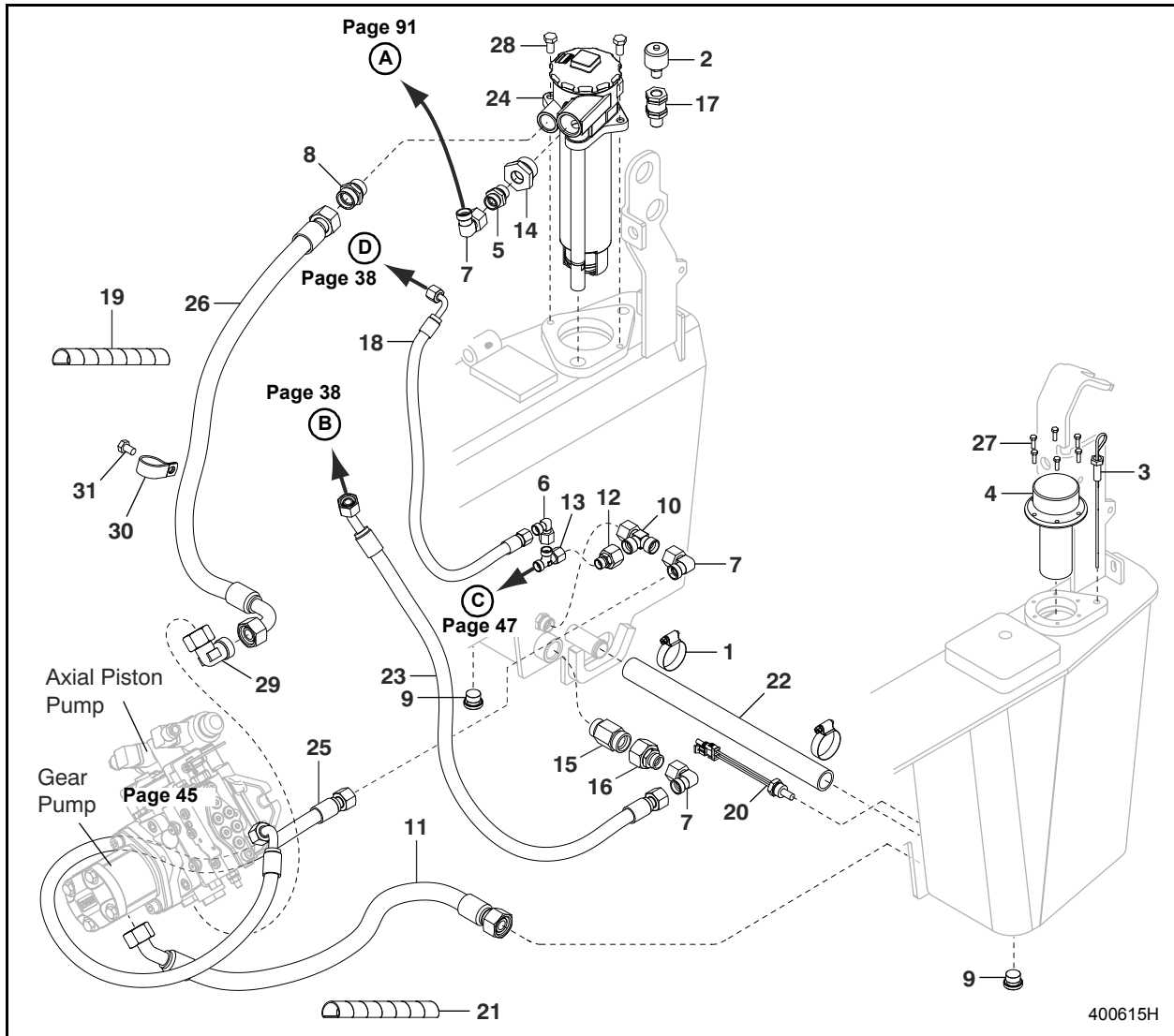
AUX. HYDRAULICS PRESSURE RELIEF CONTROL (SN 11480 AND UP)



Ref.	No.	Part No.	Description	Qty.
	1	651690	CB M6-1.00X20 C8.8 ZY DIN603	2
	2	651705	LN INST FL M6-1.00 C8 ZY DIN6926	2
	3	656048	HN M8-1.25 C8 ZY DIN934	5
	4	50301119	ROD/LINKAGE	1
	5	50301120	BALL KNOB	1
	6	50301121	ROD END/BALL JOINT	1
	7	50301214	FERROUS PROX SWITCH/M12 (includes jam nuts)	1
	8	50301281	ROD/THREADED/OFFSET	1
	9	50301500	BUSHING/PLASTIC	1
	10	50301505	BRACKET/SWITCH MOUNT	1
	11	50657017	HN M8-1.25 C8 ZY LH DIN934	1

AL 140 - HYDRAULICS

HYDRAULIC TANK (SN 11393 AND UP)



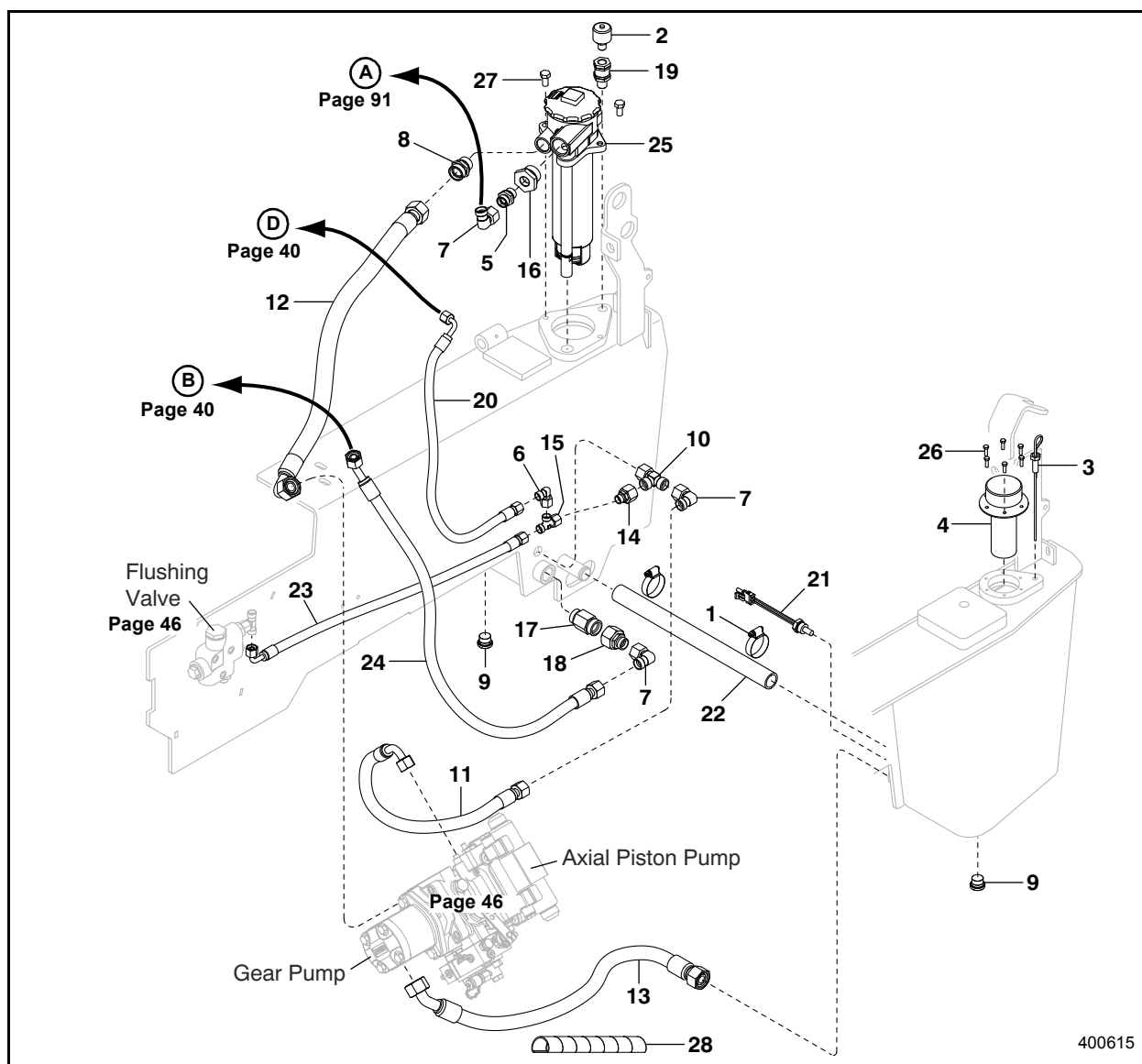
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	055335	CLAMP/HOSE #20	2	18	271391	HOSE/MP 5 X 762MM*	1
2	128591	BREATHER HYDRAULIC RES.	1	19	271454	GUARD/POLY HOSE (2.725FT) (use on hose Ref. No. 26)	1
3	175921	BOLT/DIPSTICK	1	20	271461	SWITCH/TEMP 215 F	1
4	175922	BREATHER	1	21	274865	GUARD/POLY HOSE (2.000FT) (use on hose Ref. No. 11)	1
5	176354	ST MC15-MBSPP08-L**	1	22	272961	HOSE/LP 16 X 394MM	1
6	176364	90 FCS10-MC10-L**	1	23	274263	HOSE/MP 8 X 915MM*	1
7	176366	90 FCS15-MC15-L**	3	24	274912	FILTER/RETURN (see Page 3 for details)	1
8	176376	ST MC22-MBSPP12-L**	1	25	275379	HOSE/MP 8 X 1270MM*	1
9	176510	PLUG HH MBSP08**	2	26	273698	HOSE/LP 12 X 1067MM*	1
10	176527	TEE RUN MC15-MC15-FCS15-L**	1	27	651521	CS M5-0.8X16 C8.8 ZY DIN931	6
11	176765	HOSE/LP 12 X 838MM*	1	28	656006	CS M10-1.5X20 C8.8 ZY DIN931	2
12	176778	ST FCS15-MC10-L**	1	29	270069	90 FCS22-MC22-L	1
13	176779	TEE RUN MC10-MC10-FCS10-L**	1	30	L570017	CLAMP/HOSE 1.19 X .41 HOLE	1
14	176800	ST MBSP16-FBSP08**	1	31	656090	CS M10-1.5X16 C8.8 ZY DIN931	1
15	176846	VALVE/CHECK 70PSI MC22- MORB12**	1				
16	201279	ST FCS22-MC15-L**	1				
17	270394	VALVE/CHECK/SWING	1				

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

AL 140 - HYDRAULICS

HYDRAULIC TANK (SN 11392 AND BEFORE)



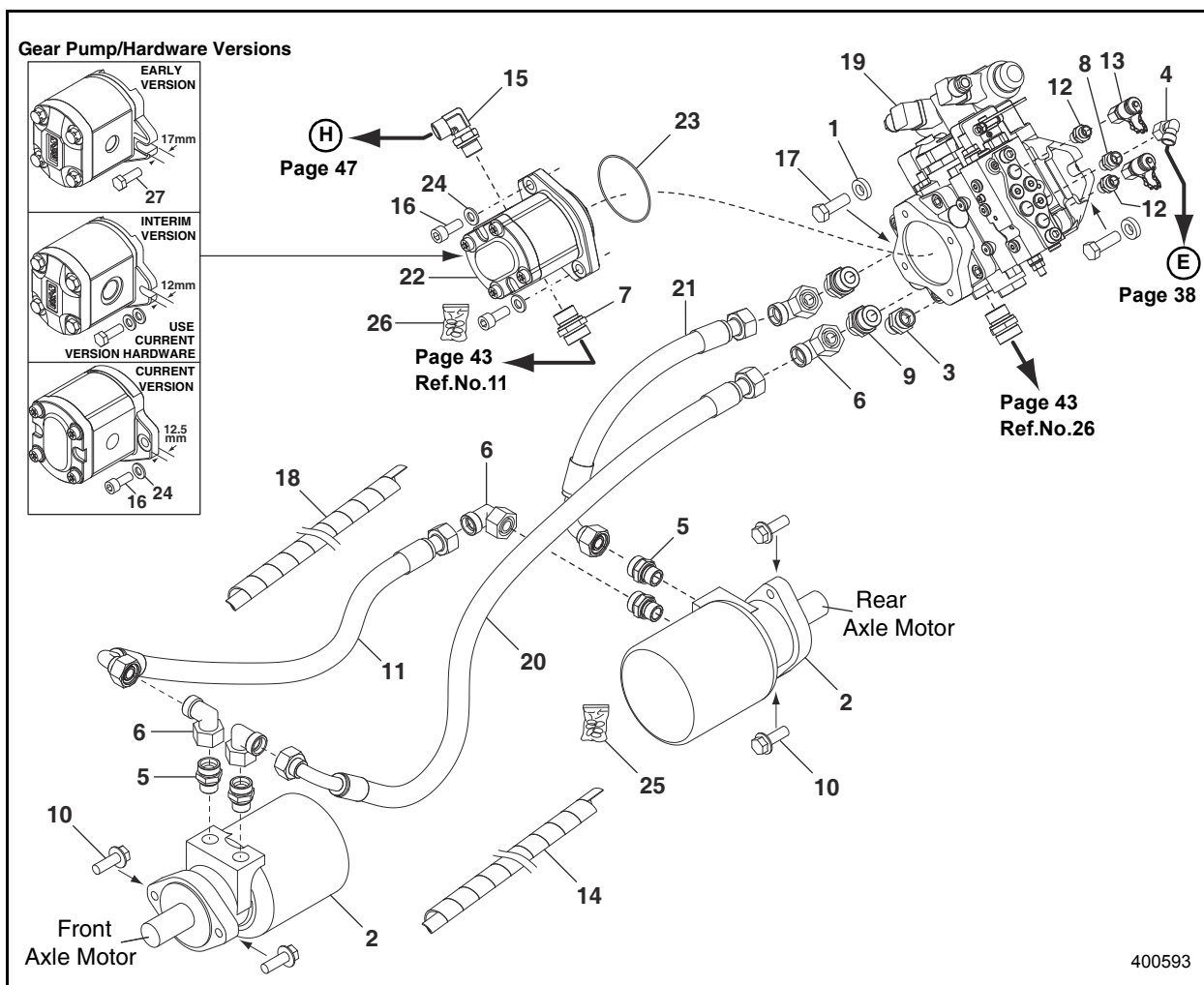
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	055335	CLAMP/HOSE #20	2	16	176800	ST MBSP16-FBSP08**	1
2	128591	BREATHER HYDRAULIC RES.	1	17	176846	VALVE/CHECK 70PSI MC22-MORB12**	1
3	175921	BOLT/DIPSTICK**	1	18	201279	ST FCS22-MC15-L**	1
4	175922	BREATHER**	1	19	270394	VALVE/CHECK/SWING	1
5	176354	ST MC15-MBSP08-L**	1	20	271391	HOSE/MP 5 X 762MM*	1
6	176364	90 FCS10-MC10-L**	1	21	271461	SWITCH/TEMP 215 AF	1
7	176366	90 FCS15-MC15-L**	3	22	272961	HOSE/LP 16 X 394MM	1
8	176376	ST MC22-MBSP12-L**	1	23	273492	HOSE/MP 5 X 660MM*	1
9	50302142	PLUG HH MORB08 MAGNETIC ** (SN 11592 and Up)	1	24	274263	HOSE/MP 8 X 915MM*	1
	176510	HPM MBSP12 (DRAIN PLUG) ** (SN 11257 - 11591)	1	25	274912	FILTER/RETURN (see Page 3 for details)	1
10	176527	TEE RUN MC15-MC15-FCS15-L**	1	26	651521	CS M5-0.8X16 C8.8 ZY DIN931	6
11	176757	HOSE/MP 8 X 673MM*	1	27	656006	CS M10-1.5X20 C8.8 ZY DIN931	2
12	176760	HOSE/LP 12 X 686MM*	1	28	274865	GUARD/POLY HOSE (2.000FT) (use on hose Ref. No. 13)	1
13	176765	HOSE/LP 12 X 838MM*	1				
14	176778	ST FCS15-MC10-L**	1				
15	176779	TEE RUN MC10-MC10-FCS10-L**	1				

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

AL 140 - HYDRAULICS

HYDRAULIC DRIVE (SN 11393 AND UP)



Ref. No.	Part No.	Description	Qty.
1	093362	FW 17/32	2
2	175917	MOTOR/DRIVE 240CC	2
3	176354	ST MC15-MBSPP08-L**	1
4	176364	90 FCS10-MC10-L**	1
5	176370	ST MC18-MBSPP08-L**	4
6	176371	90 FCS18-MC18-L**	5
7	176376	ST MC22-MBSPP12-L**	2
8	176530	ST MC10-MBSPP04-L**	1
9	176532	ST MC18-MBSPP12-L**	2
10	50301496	SHCS M12-1.75X35 C10.9 OCG SP DN912	4
11	176766	HOSE/HP 10 X 686MM*	1
12	176883	ST MC08-MBSPP04-L**	2
13	270208	DIAGNOSTIC/MALE**	2
14	271454	GUARD/POLY HOSE (2.725FT) (used on hose Ref. No. 20)	1
15	271754	90 MC15-MABSPP08-L**	1
16	271915	SHCS M10-1.5X25 C8.8 ZY SP DIN912***	2
17	50301001	CS 1/2X1-1/2 C8OCG SP	2

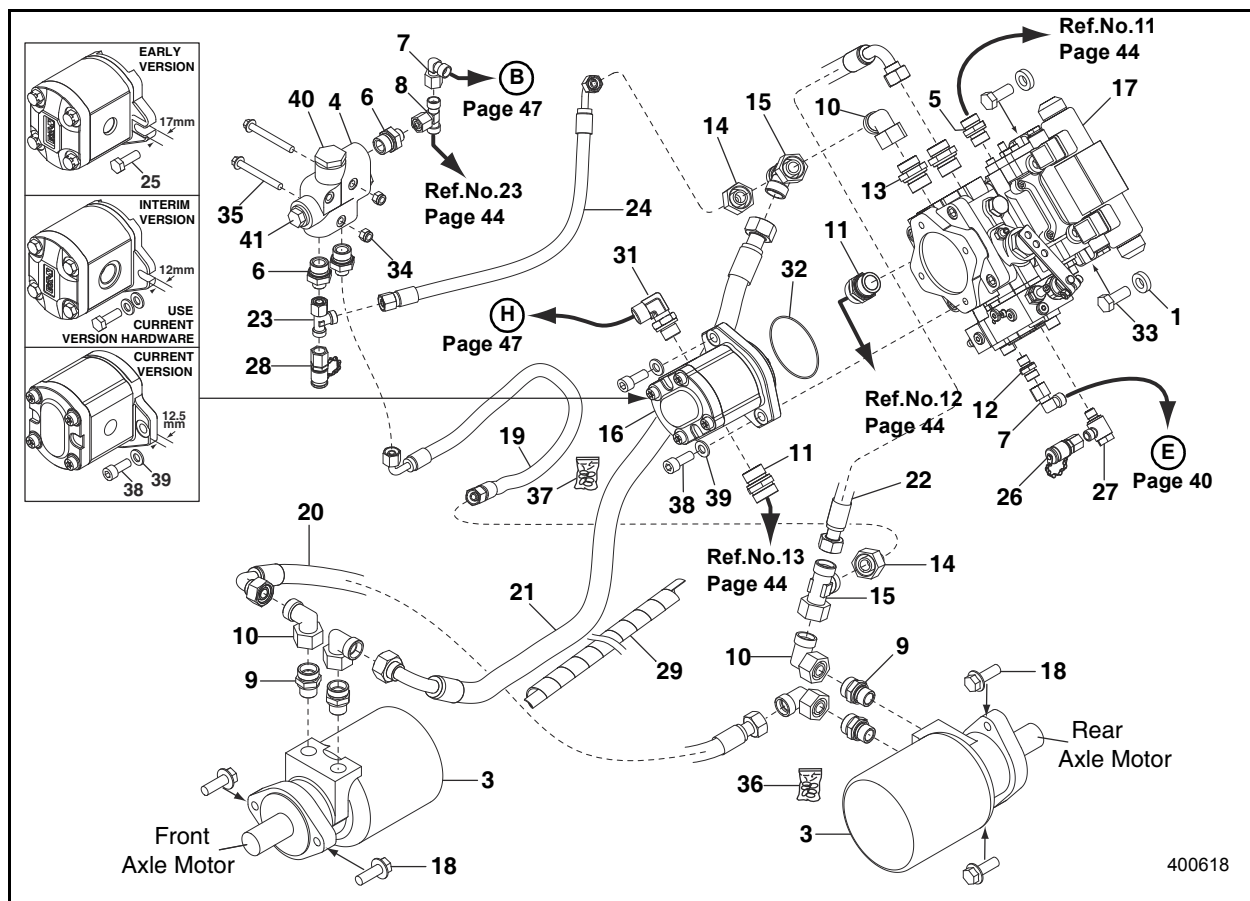
Ref. No.	Part No.	Description	Qty.
18	274865	GUARD/POLY HOSE (2.000FT) (used on hose Ref. No. 11)	1
19	275252	PUMP/AXIAL PISTON	1
20	275382	HOSE/HP 10 X 1015MM*	1
21	275383	HOSE/HP 10 X 355MM*	1
22	50301179	PUMP/GEAR 11CC (Rexroth)	1
	230184	KIT/PUMP/GEAR .79 (replaces early gear pump, marked Eaton on end cap)	1
23	350-32266	O-RING 042 N70	1
24	656133	FW M10 ZY DIN125	2
25	202668	SEAL KIT (drive motor)	1
26	50280538	SEAL KIT/REXROTH PUMP (for 50301179 Rexroth gear pump)	1
	243064	KIT/SEAL/EATON (for early gear pump, marked Eaton on end cap)	1
27	201181	CS M10-1.50X30 C8.8ZY SP DIN931 (see inset graphic above for usage)	2

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

AL 140 - HYDRAULICS

HYDRAULIC DRIVE (SN 11392 AND BEFORE)



Ref. No.	Part No.	Description	Qty.
1	093362	FW 17/32	2
3	175917	MOTOR/DRIVE 240CC	2
4	176289	VALVE/FLUSHING	1
5	176354	ST MC15-MBSPP08-L**	1
6	176357	ST MC10-MM22-L**	3
7	176364	90 FCS10-MC10-L**	2
8	176367	TEE BR MC10-MC10-FCS10-L**	1
9	176370	ST MC18-MBSPP08-L**	4
10	176371	90 FCS18-MC18-L**	5
11	176376	ST MC22-MBSPP12-L**	2
12	176530	ST MC10-MBSPP04-L**	1
13	176532	ST MC18-MBSPP12-L**	2
14	176541	ST FCS18-MC10-L**	2
15	176542	TEE RUN MC18-MC18-FCS18-L**	2
16	50301179	PUMP/GEAR 11CC (Rexroth)	1
	230184	KIT/PUMP/GEAR .79 (replaces early gear pump, marked Eaton on end cap)	1
17	176580	PUMP/AXIAL PISTON	1
18	50301496	CS FLH M12-1.75X35 C8.8ZY SP DN1665	4
19	176761	HOSE/MP 5 X 610MM*	1
20	176766	HOSE/HP 10 X 686MM*	1
21	176767	HOSE/HP 10 X 1118MM*	1
22	176768	HOSE/HP 10 X 445MM*	1

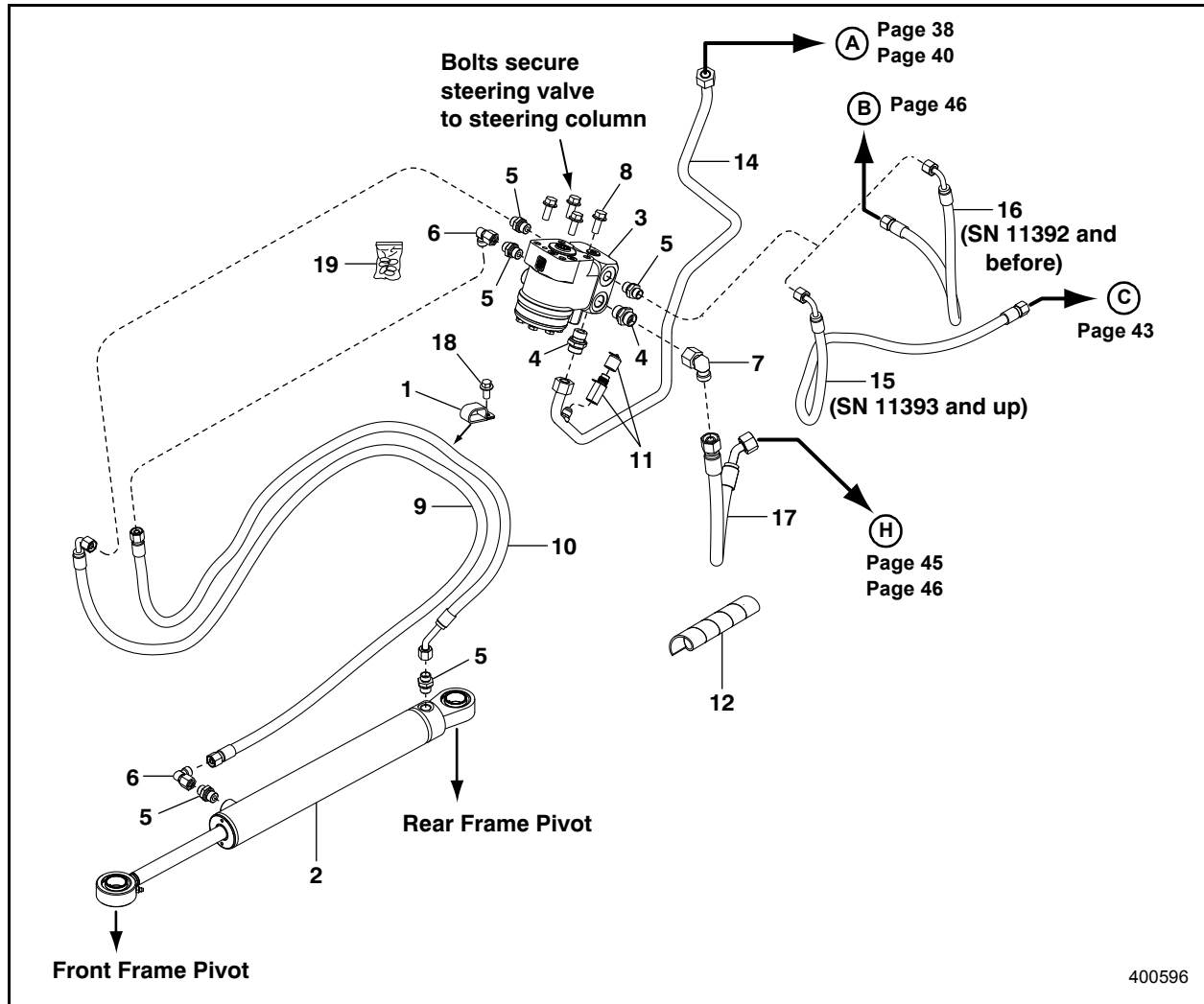
Ref. No.	Part No.	Description	Qty.
23	176779	TEE RUN MC10-MC10-FCS10-L**	1
24	201126	HOSE/MP 5 X 508MM*	1
25	201181	CS M10-1.50X30 C8.8ZY SP DIN931 (see inset graphic above for usage)	2
26	270208	DIAGNOSTIC/MALE**	1
27	270213	90-BJ MC08-MBSPP04-L**	1
28	270236	DIAGNOSTIC/MALE**	1
29	271454	GUARD/POLY HOSE (2.725FT) (use on hose, Ref. No. 21)	1
31	271754	90 MC15-MABSPP08-L**	1
32	350-32266	O-RING -042 N70	1
33	650495	CS 1/2X1-1/4 C5ZY***	2
34	651458	LN INS M8-1.25 C8 ZY DIN6924	2
35	651696	CS FL M8-1.25X70 C8.8 ZY DIN1662	2
36	202668	SEAL KIT (drive motor)	1
37	50280538	SEAL KIT/REXROTH PUMP (for 50301179 Rexroth gear pump)	1
	243064	KIT/SEAL/EATON (for early gear pump, marked Eaton on end cap)	1
38	271915	SHCS M10-1.5X25 C8.8 ZY SP DIN912***	2
39	656133	FW M10 ZY DIN125	2
40	270827	O-RING 119 V90	1
41	270826	O-RING 116 V90	2

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

*** Re-use of bolts requires Loctite® 262 or equivalent

AL 140 - HYDRAULICS POWER STEERING



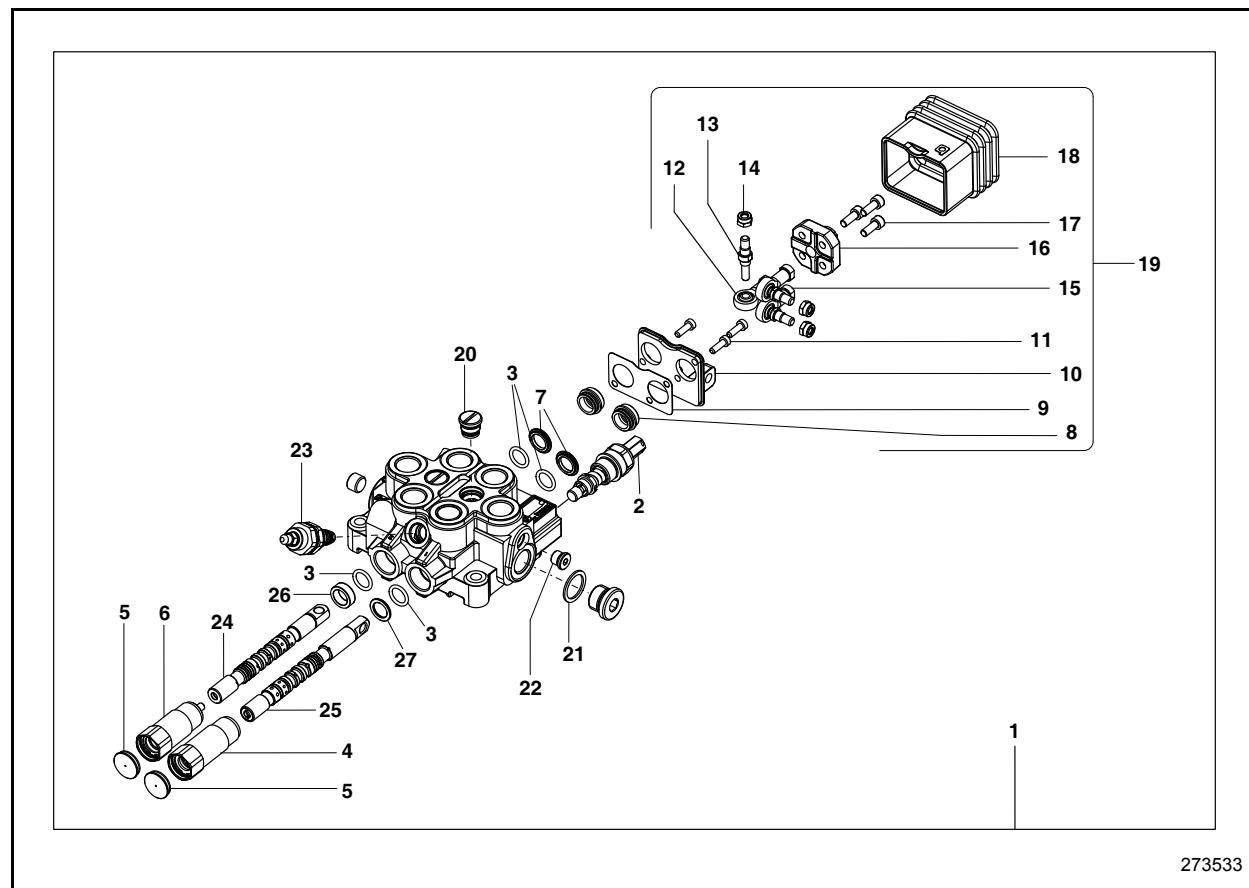
Ref. No.	Part No.	Description	Qty.
1	055021	CLAMP/HOSE .75 X .41 HOLE DOUBLE	1
2	175800	CYL/HYD/STEERING (see Page 55 for details)	1
3	175919	VALVE/STEERING	1
4	176354	ST MC15-MBSPP08-L**	2
5	176358	ST MC10-MBSPP06-L**	5
6	176364	90 FCS10-MC10-L**	2
7	176366	90 FCS15-MC15-L**	1
8	176653	CS FLH M10-1.5X25 C8.8ZY SP DIN1665	4
9	176740	HOSE/MP 5 X 1727MM*	1
10	176741	HOSE/MP 5 X 1283MM*	1
11	193169	TESTPORT	1
12	272213	GUARD/POLY HOSE (0.500FT) (use on hose Ref. No. 17)	1

Ref. No.	Part No.	Description	Qty.
14	273288	TUBE	1
15	201081	HOSE/MP 5 X 1219MM* (SN 11393 and up)	1
16	273492	HOSE/MP 5 X 660MM* (SN 11392 and before)	1
17	274124	HOSE/MP 8 X 648MM*	1
18	651732	CS FL M10-1.50X20 C8.8 ZY DIN1662	1
19	202671	KIT/SEAL (steering valve)	1

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

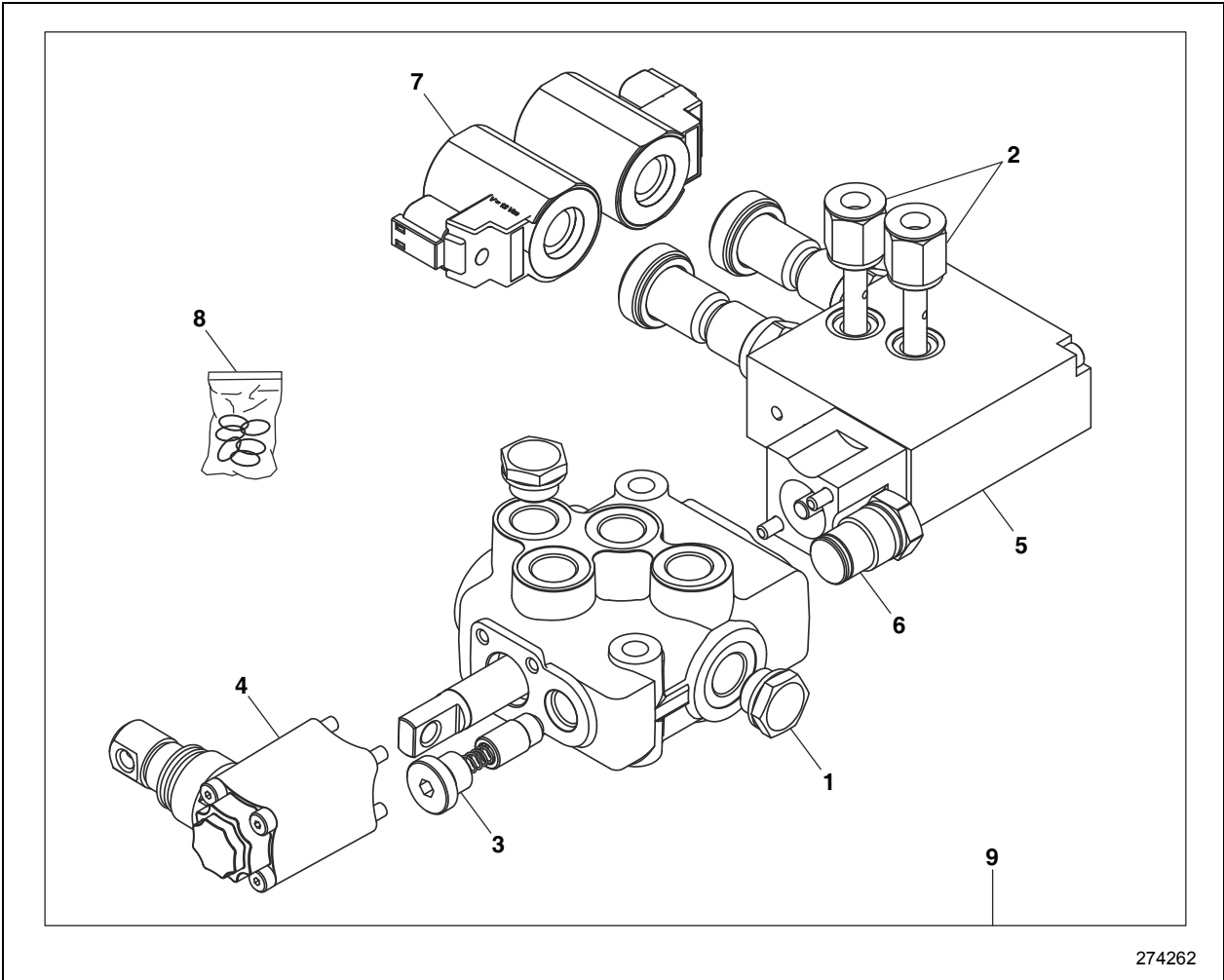
AL 140 - HYDRAULICS CONTROL VALVE



273533

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	273533	VALVE	1	19	230086	JOYSTICK ASSY	1
2	230074	RELIEF VALVE	1	20	203815	CHECK VALVE	2
3	230075	O-RING	4	21	230044	SEALING WASHER	1
4	202574	POSITIONER/HDS11	1	22	203814	PLUG 7/16-20UNF	1
5	203816	POSITIONER PLUG	2	23	202575	VALVE/PORT RELIEF	1
6	202573	POSITIONER/HDM10	1	24	230271	SPOOL	1
7	230076	SPACER	2	25	230272	SPOOL	1
8	230077	SPACER *	2	26	230273	SPACER	1
9	230078	SEAL *	1	27	230274	SPACER	1
10	230079	LEVER SUPPORT *	1	* Included in Ref. No. 19 Joystick Assy.			
11	230080	SCREW *	3				
12	202577	PIVOT *	1				
13	230081	PIN *	1				
14	230082	NUT *	3				
15	202578	JOINT/ROCKER *	2				
16	230083	ROCKER JOINT *	1				
17	230084	SCREW *	3				
18	230085	RUBBER BOOT *	1				

AL 140 - HYDRAULICS
AUXILIARY VALVE

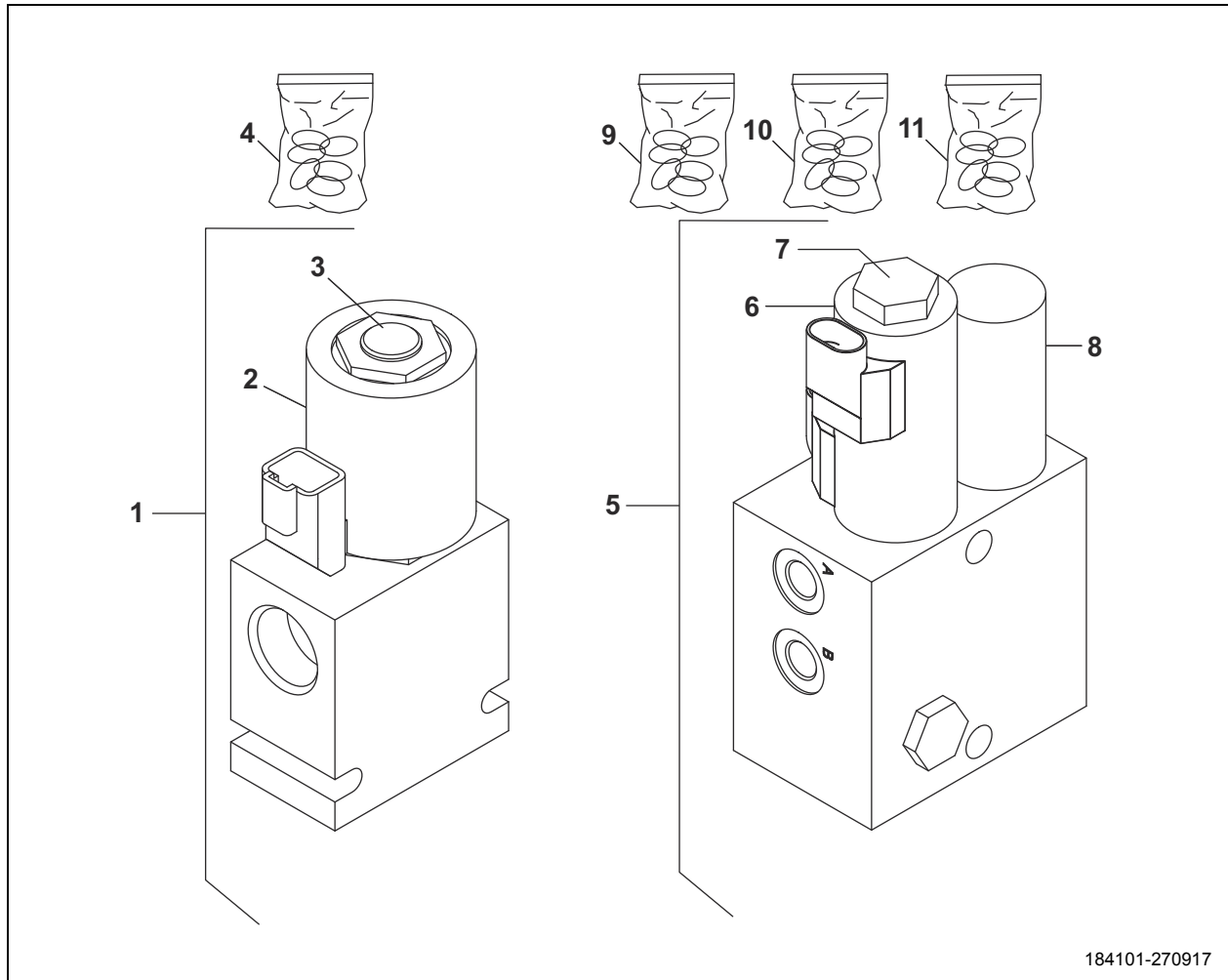


Ref. No.	Part No.	Description	Qty.
1	230020	PLUG KIT	2
2	230021	TIE ROD KIT	1
3	230022	LOAD CHECK KIT	1
4	230023	PROTECTED LEVER KIT	1
5	230024	PROPORTIONAL CONTROL	1

Ref. No.	Part No.	Description	Qty.
6	230026	RELIEF VALVE PLUG	1
7	230027	COIL	2
8	230028	SEAL KIT	1
9	274262	VALVE/AUXILIARY	1

AL 140 - HYDRAULICS

SOLENOID VALVE, POWER-A-TACH VALVE

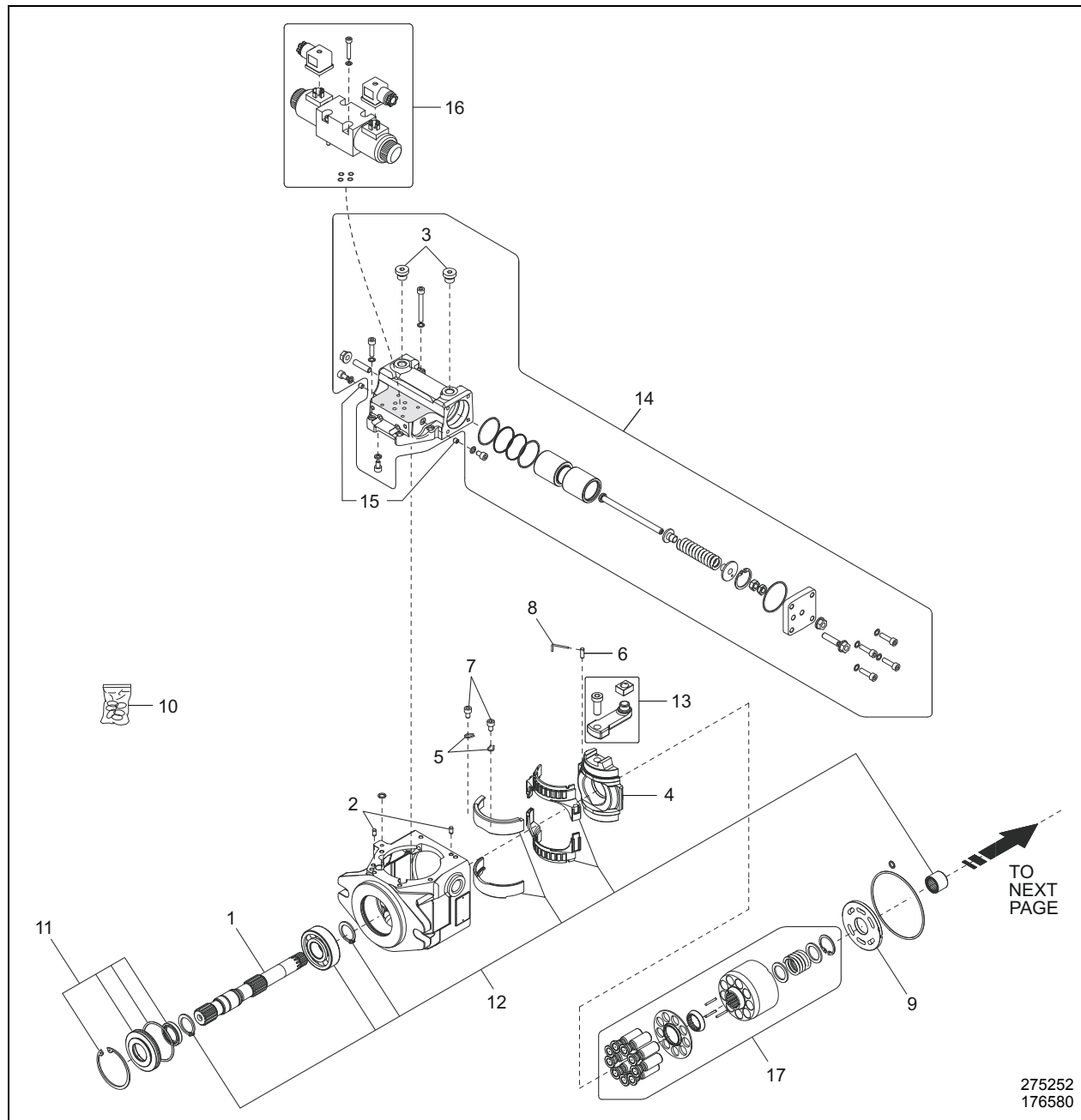


Ref. No.	Part No.	Description	Qty.
1	184101	VALVE/SOL SV10-24 10T	1
2	184105	Coil	1
3	122840	CARTRIDGE/SOLENOID VALVE SV10-24-0-	1
4	121897	SAFETY SOLENOID VALVE SEAL KIT	1
5	270917	VALVE/POWER-A-TACH	1
6	50280194	COIL/12VDC	1
7	50280192	VALVE/SPOOL/3P4W	1

Ref. No.	Part No.	Description	Qty.
8	50280193	VALVE/PRESSURE REDUCING-RELIEVING	1
9	50280195	SEAL KIT/SPOOL VALVE	1
10	50280196	SEAL KIT/PRESSURE REDUCING VALVE	1
11	50280197	SEAL KIT/CHECK VALVE	1

AL 140 - HYDRAULICS

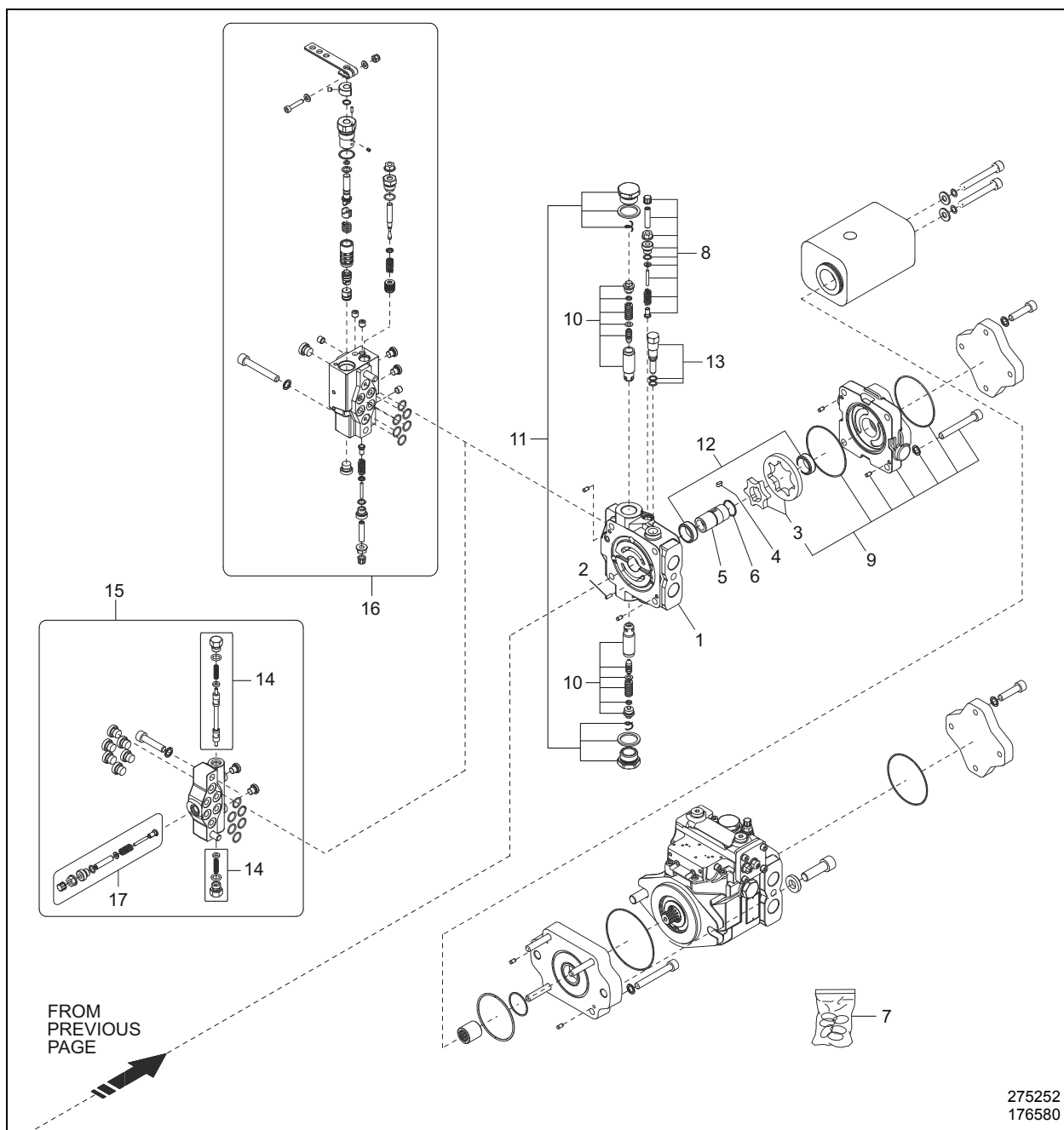
AXIAL PISTON PUMP - INTERNAL COMPONENTS



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	204393	PUMP SHAFT	1	12	50280258	BEARING KIT (additional components on following page)	1
2	204390	PLUG 5 X 10	4	13	50280259	CONTROL LEVER	1
3	204326	PLUG 1/4	2	14	50280256	SERVO CONTROL	1
4	204339	CAGE	1	15	50280416	RESTRICTOR KIT 1.4MM (SN 11393 and up)	1
5	50280254	CAGE WIRE	2		50280415	RESTRICTOR KIT 1.0MM (SN 11392 and before)	1
6	50280394	PIN	1	16	50280411	ELECTRICAL CONTROL KIT	1
7	204361	SHCS M6 X 10 (SN 11393 and up)	3	17	204404	ROTATING GROUP COMPLETE	1
	204361	SHCS M6 X 10 (SN 11392 and before)	2				
8	204351	CAGE WIRE	1				
9	50280397	VALVE PLATE	1				
10	50280260	SEAL KIT (complete pump)	1				
11	50280257	SHAFT SEAL KIT	1				

AL 140 - HYDRAULICS

AXIAL PISTON PUMP - INTERNAL COMPONENTS (CONTINUED)

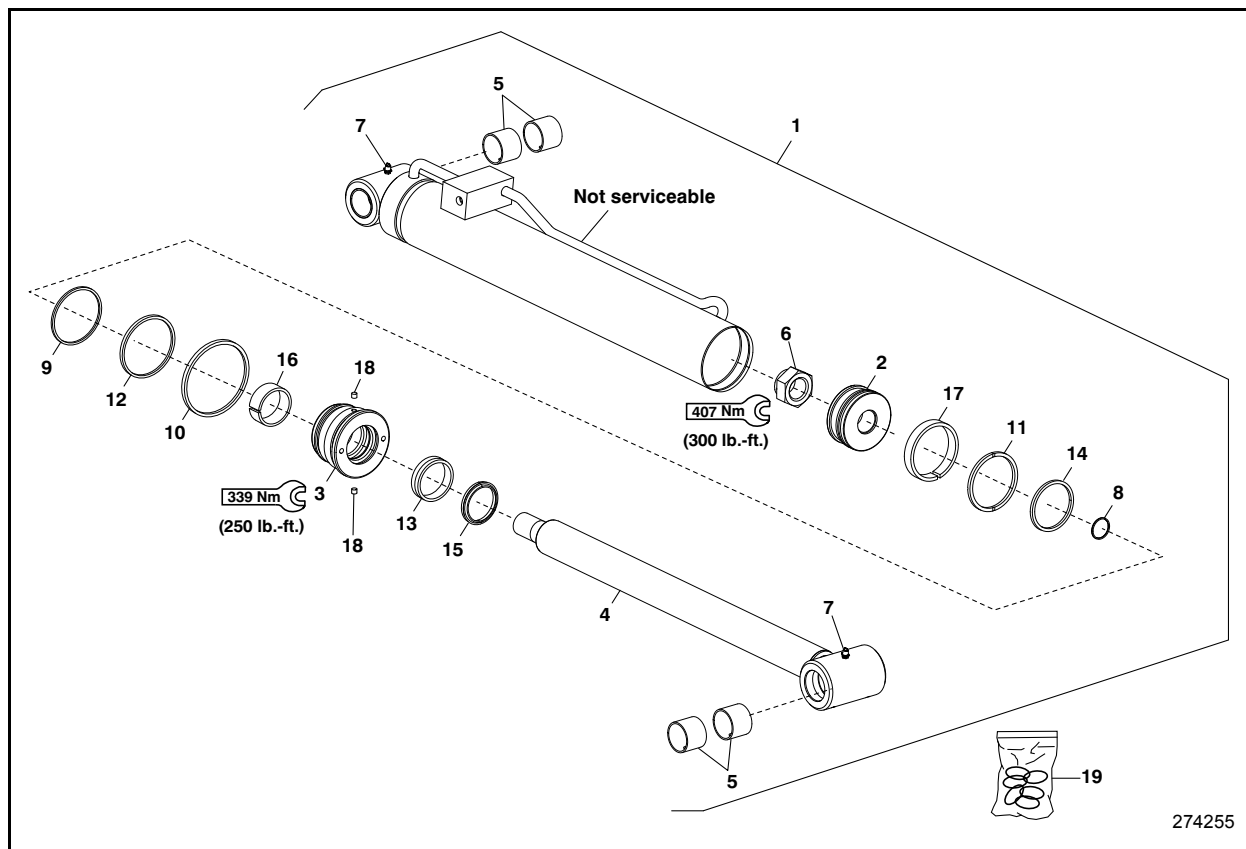


Ref. No.	Part No.	Description	Qty.
1	50280396	END COVER	1
2	204389	CYLINDRICAL PLUG 4 X 12 ISO	1
3	50280391	GEROTOR KIT	1
4	204402	KEY	1
5	204396	SHAFT/CHARGE PUMP	1
6	204368	RETAINING RING	1
7	50280260	SEAL KIT (complete pump)	1
8	204405	RELIEF VALVE	1
9	50280255	CHARGE PUMP KIT	1
10	50280387	MAXIMUM PRESSURE VALVE (320 BAR)	2
11	50280393	LP RELIEF VALVE KIT	1

Ref. No.	Part No.	Description	Qty.
12	50280258	BEARING KIT (additional components on previous page)	1
13	50280261	BYPASS SCREW	1
14	50280410	FLUSHING SPOOL KIT (SN 11393 and up)	1
15	50280413	FLUSHING VALVE KIT (SN 11393 and up)	1
16	50280414	AUTOMOTIVE CONTROL KIT (SN 11393 and up)	1
	50280412	AUTOMOTIVE CONTROL KIT (SN 11392 and before)	1
17	204405	RELIEF VALVE (SN 11393 and up)	1

AL 140 - HYDRAULIC CYLINDERS

LIFT CYLINDER



Ref. No.	Part No.	Description	Qty.
1	274255	LIFT CYLINDER COMPLETE (includes Ref. Nos. 1-19)	1
2	270488	PISTON	1
3	270489	HEAD GLAND	1
4	270491	ROD WELDMENT	1
5	270460	PRELUBRICATED BUSHING	4
6	L500668	NUT LOCK 7/8-14UNF **	1
7	613052	FITTING/GREASE M6X1	2
8		O-RING *	1
9		O-RING *	1
10		O-RING *	1
11		SQUARE RING *	1

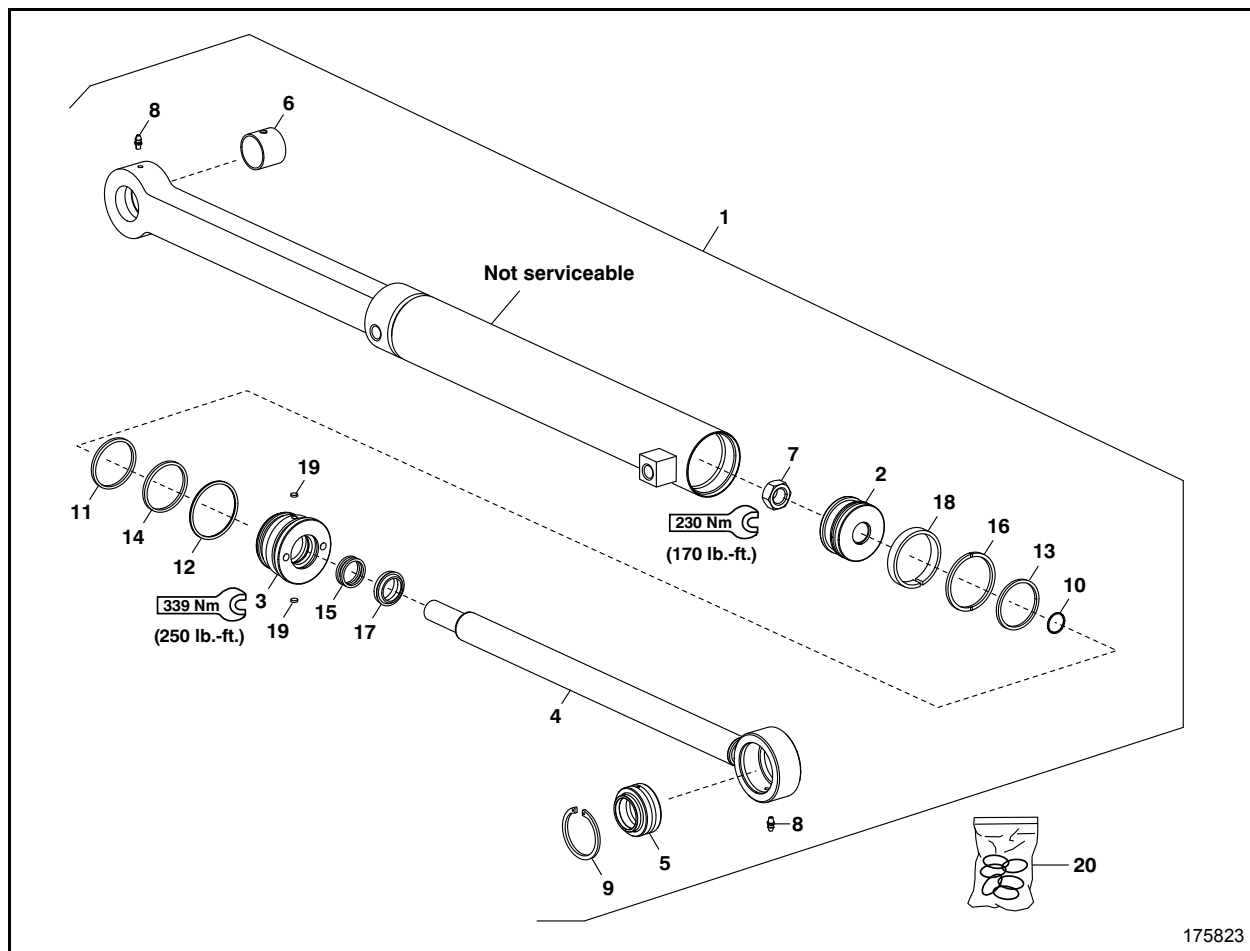
Ref. No.	Part No.	Description	Qty.
12		BACKUP RING *	1
13		DEEP Z-SEAL *	1
14		SQUARE SECT. TFE PISTON SEAL *	1
15		HD ROD WIPER, SEALED OD *	1
16		WEARBAND *	1
17		WEARBAND *	1
18		LOCKING INSERT *	2
19	270492	KIT/SEAL (includes Ref. Nos. 10-18)	1

* Parts not serviced separately.

** Requires Loctite® 271 or equivalent.

AL 140 - HYDRAULIC CYLINDERS

TILT CYLINDER



Ref. No.	Part No.	Description	Qty.
1	175823	TILT CYLINDER COMPLETE (includes Ref. Nos. 1-19)	1
2	134841	PISTON	1
3	L97456	END/GLAND	1
4	270479	ROD WELDMENT	1
5	270487	SPHERICAL BEARING	1
6	270460	PRELUBRICATED BUSHING	1
7	075722	LN 7/8 FBZ **	1
8	613052	FITTING/GREASE M6X1	2
9	270484	INT.SNAP RING 55MM BORE	1
10		O-RING *	1
11		O-RING *	1

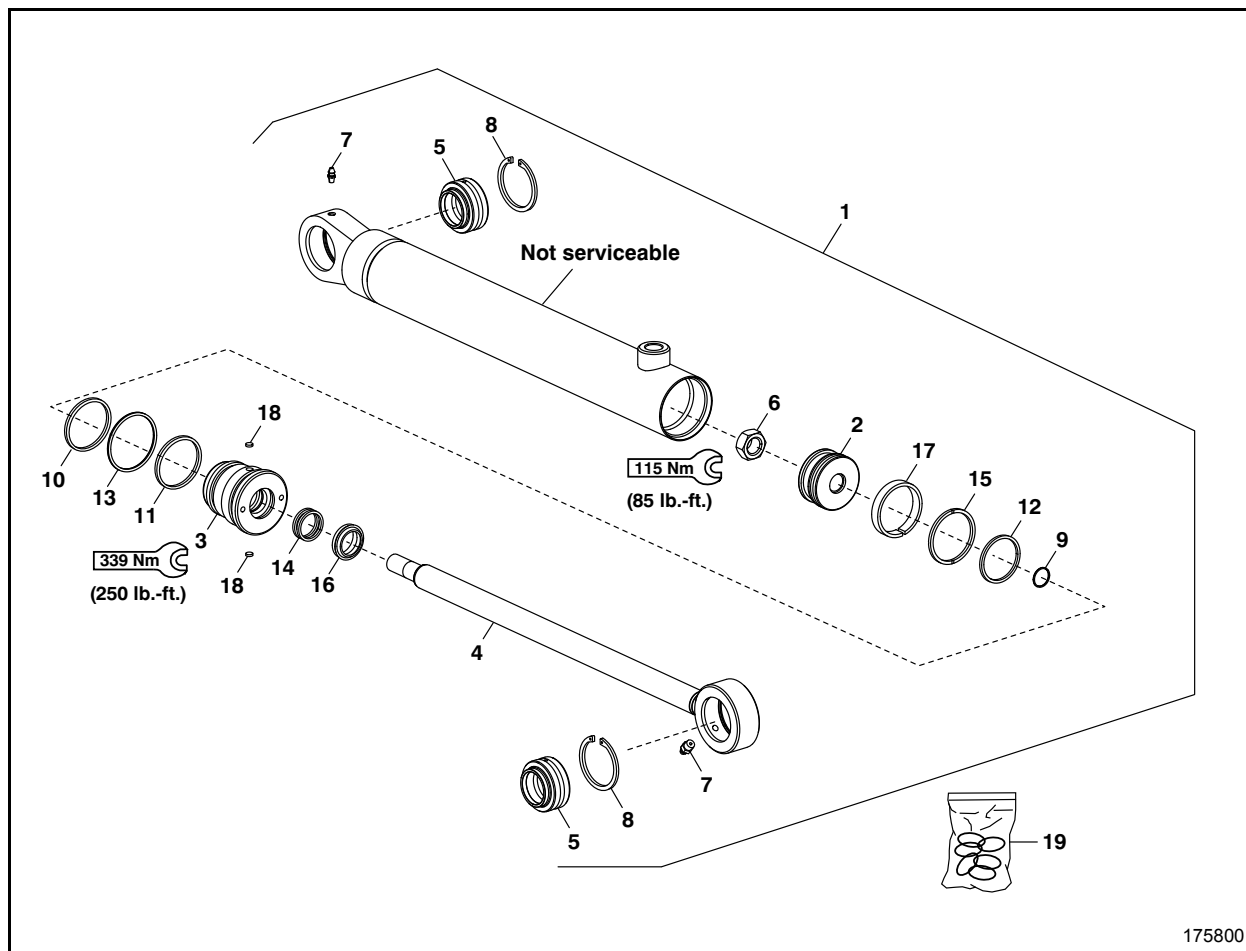
Ref. No.	Part No.	Description	Qty.
12		O-RING *	1
13		SQUARE RING *	1
14		BACKUP RING *	1
15		Z-SEAL *	1
16		SQUARE SECT. TFE PISTON SEAL *	1
17		HD ROD WIPER, SEALED OD *	1
18		WEARBAND *	1
19		LOCKING INSERT *	2
20	270481	KIT/SEAL (includes Ref. Nos. 10-19)	1

* Parts not serviced separately.

** Requires Loctite® 271 or equivalent.

AL 140 - HYDRAULIC CYLINDERS

STEERING CYLINDER



Ref. No.	Part No.	Description	Qty.
1	175800	CYL/HYD/STEERING COMPLETE (includes Ref. Nos. 1-18)	1
2	270423	PISTON	2
3	270424	HEAD GLAND	1
4	270425	ROD WELDMENT	1
5	270426	SPHERICAL BEARING	1
6	270427	LOCKNUT/5/8-18 UNF **	1
7	613052	FITTING/GREASE M6X1	2
8	270429	RING/INT SNAP 1.88	1
9		O-RING *	1
10		O-RING *	1
11		O-RING *	1

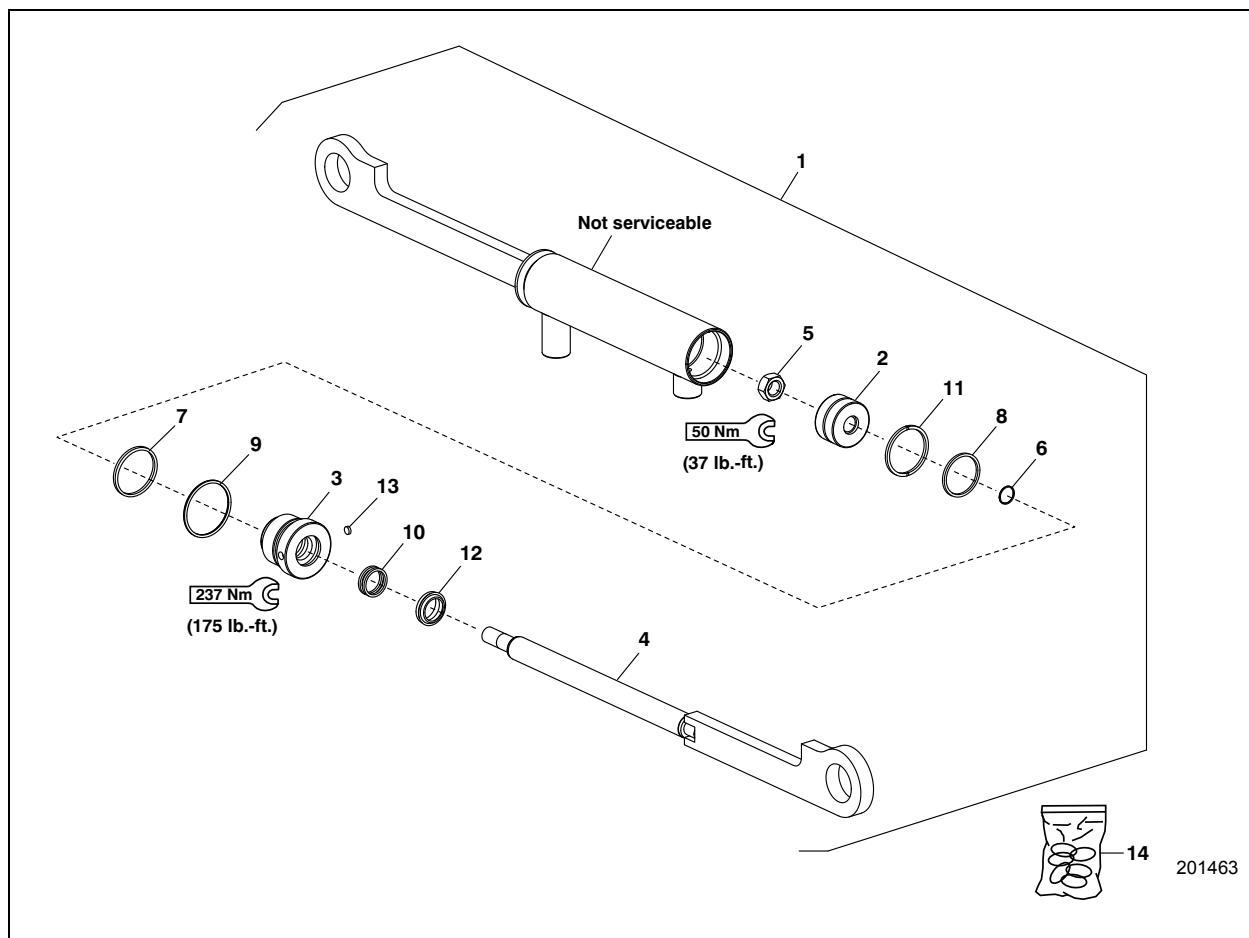
Ref. No.	Part No.	Description	Qty.
12		SQUARE RING *	1
13		BACKUP RING *	1
14		Z-SEAL *	1
15		SQUARE SECT. TFE PISTON SEAL *	1
16		HD ROD WIPER, SEALED OD *	1
17		WEARBAND *	1
18		LOCKING INSERT *	2
19	270430	KIT/SEAL (includes Ref. Nos. 9-18)	1

* Parts not serviced separately.

** Requires Loctite® 271 or equivalent.

AL 140 - HYDRAULIC CYLINDERS

POWER-A-TACH CYLINDER

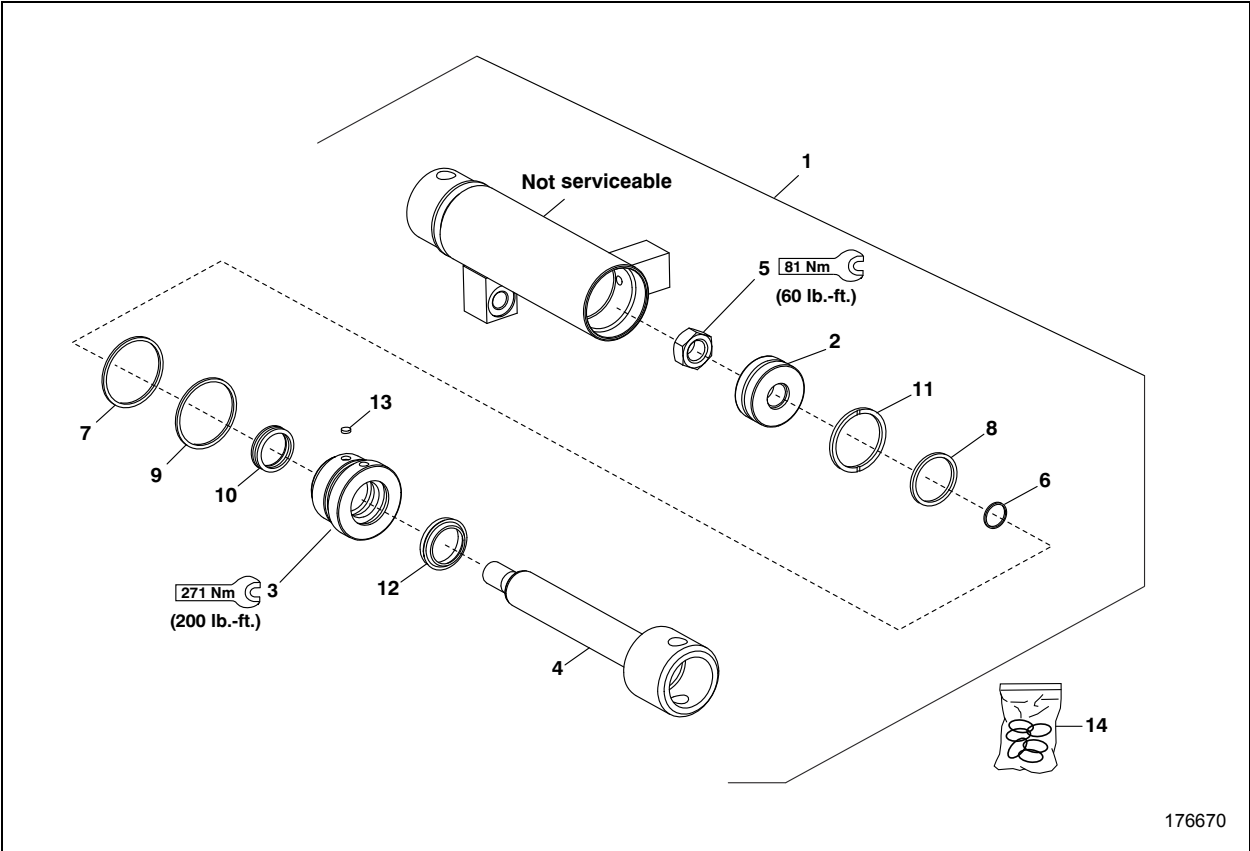


Ref. No.	Part No.	Description	Qty.
1	201463	CYL/HYD POWER-A-TACH (includes Ref. Nos. 2-13)	1
2	202664	PISTON	1
3	202665	HEAD GLAND	1
4	202666	ROD WELDMENT	1
5	202667	LOCKNUT 1/2-20 UNF **	1
6		O-RING *	1
7		O-RING *	1
8		SQUARE RING *	1
9		BACKUP RING, DYNAMIC *	1

Ref. No.	Part No.	Description	Qty.
10		DEEP Z-SEAL *	1
11		SQUARE SECT. TFE PISTON SEAL *	1
12		HD ROD WIPER, SEALED OD *	1
13		LOCKING INSERT *	2
14	271021	KIT/SEAL (includes Ref. Nos. 6-13)	1

* Parts not serviced separately.
 ** Requires Loctite® 271 or equivalent.

AL 140 - HYDRAULIC CYLINDERS
4-POINT QUICK-A-TACH CYLINDER (EU ONLY)



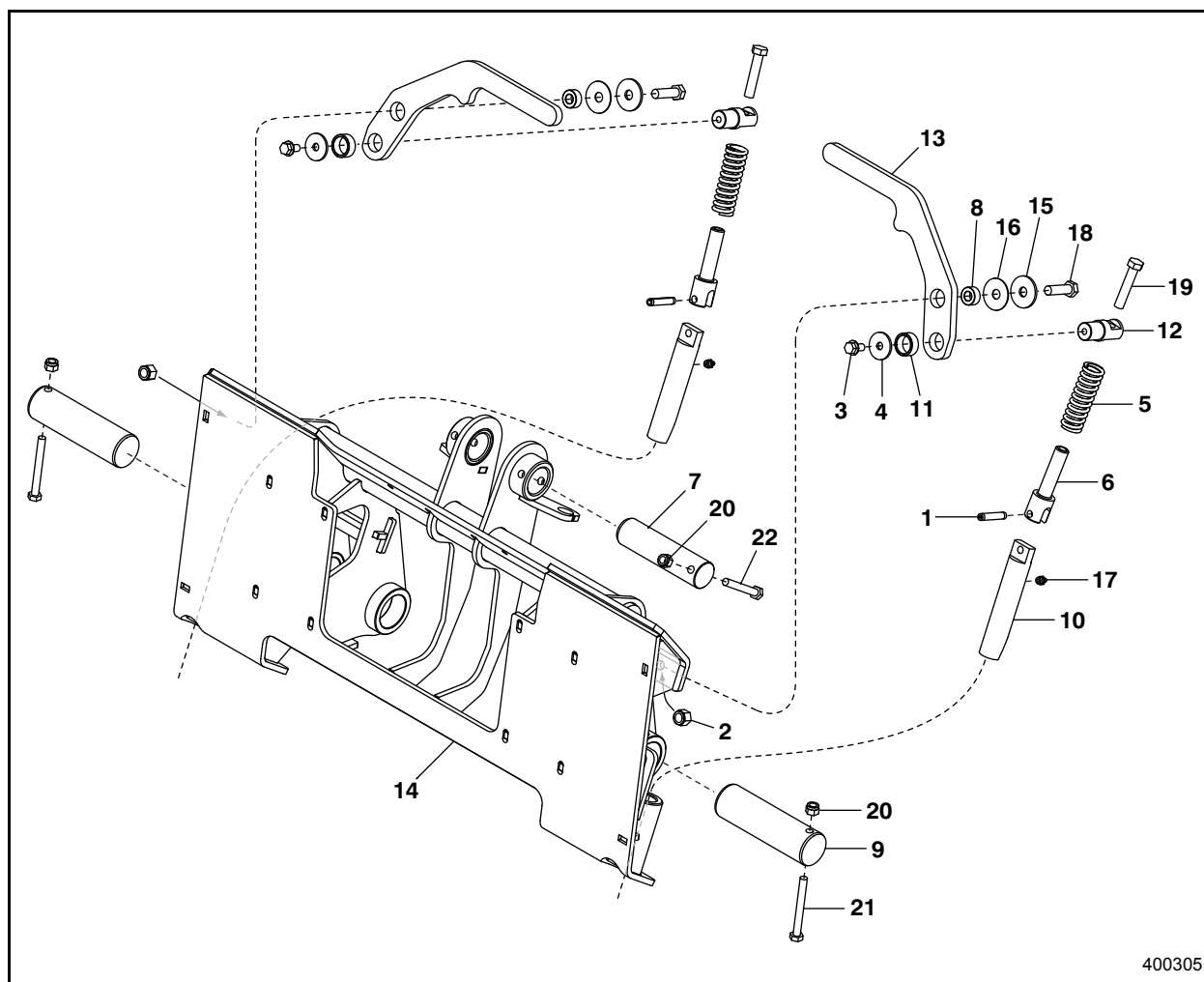
Ref. No.	Part No.	Description	Qty.
1	176670	CYLINDER (includes Ref. Nos. 2-13)	1
2	203869	PISTON	1
3	203870	HEAD GLAND	1
4	203871	ROD WELDMENT	1
5	270427	LOCKNUT 5/8-18 UNF **	1
6		O-RING *	1
7		O-RING *	1
8		SQUARE RING *	1
9		BACKUP RING, DYNAMIC *	1

Ref. No.	Part No.	Description	Qty.
10		DEEP Z-SEAL *	1
11		SQUARE SECT. TFE PISTON SEAL *	1
12		HD ROD WIPER, SEALED OD *	1
13		LOCKING INSERT *	1
14	271986	KIT/SEAL (Includes Ref. Nos. 6-13)	1

* Parts not serviced separately.
** Requires Loctite® 271 or equivalent.

AL 140 - ATTACHMENTS

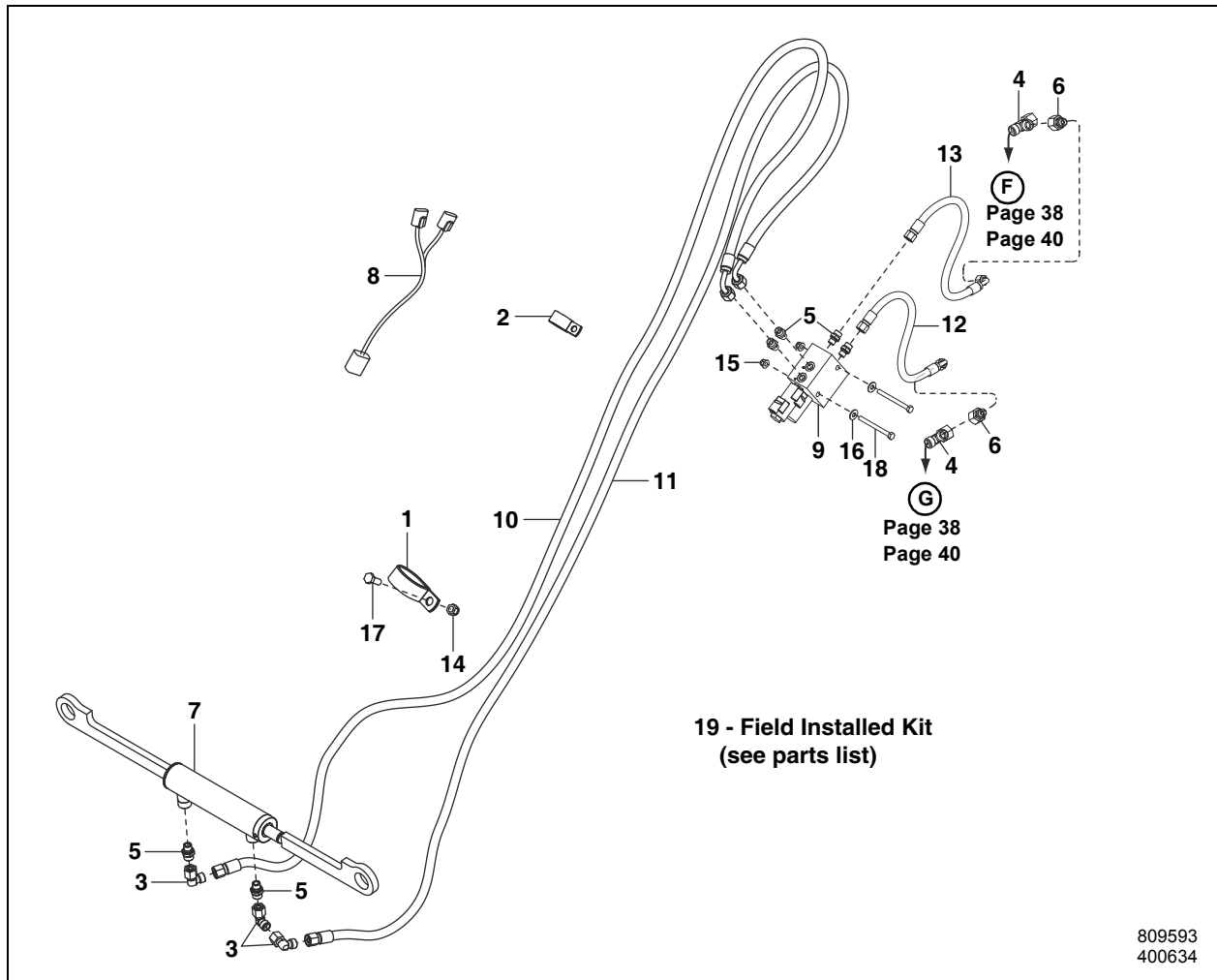
ALL-TACH



Ref. No.	Part No.	Description	Qty.
1	062756	PIN/SPRING 3/8X2	2
2	068034	HLN INST 1/2 CZY	2
3	076588	CS FL LOCK 3/8X3/4 C5ZY	2
4	080926	FW 13/32 ZY	2
5	123554	SPRING, COMPRESSION	2
6	134594	ADAPTOR/ROD	2
7	175980	PIN/PIVOT	1
8	176187	BUSHING	2
9	176666	PIN/PIVOT 50MM	2
10	183575	PIN/LATCH	2
11	201397	SPACER	2
12	201473	ADAPTOR/PUSH ROD	2

Ref. No.	Part No.	Description	Qty.
13	201474	LEVER/BUCKET PIN	2
14	273019	WDMT/NARROW ATTACH BRKT	1
15	400-30803	FW 17/32 ZY	2
16	400-32252	WASHER, CUPPED SPRING	2
17	613021	FITTING/GREASE M10X1	2
18	650569	CS 1/2X1-3/4 C5ZY	2
19	651239	CS 1/2X2-1/2 C8ZY	2
20	651448	LN INS M10-1.5 C8 ZY DIN6924	3
21	656015	CS M10-1.5X90 C8.8 ZY DIN931	2
22	656117	CS M10-1.5X75 C8.8 ZY DIN931	1

AL 140 - ATTACHMENTS POWER-A-TACH



Ref. No.	Part No.	Description	Qty.
1	075196	CLAMP/HOSE 1.50 X .41 HOLE (replaces hose strap, used previously)	1
2	097860	CLAMP/HOSE .69 X 41 HOLE DOU- BLE	1
3	176364	90 FCS10-MC10-L**	3
4	176527	TEE RUN MC15-MC15-FCS15-L**	2
5	176530	ST MC10-MBSPP04-L**	6
6	176778	ST FCS15-MC10-L**	2
7	201463	CYL/HYD QUICK ATTACH (see Page 56 for details)	1
8	201479	HARNESS/HYD QUICK ATTACH	1
9	270917	VALVE/ALL TACH (see Page 50 for details)	1
10	272474	HOSE/MP 5 X 2450MM*	1
11	272475	HOSE/MP 5 X 2274MM*	1
12	274276	HOSE/MP 5 X 483MM*	1
13	274277	HOSE/MP 5 X 545MM*	1
14	651448	LN INS M10-1.5 C8 ZY DIN6924	1

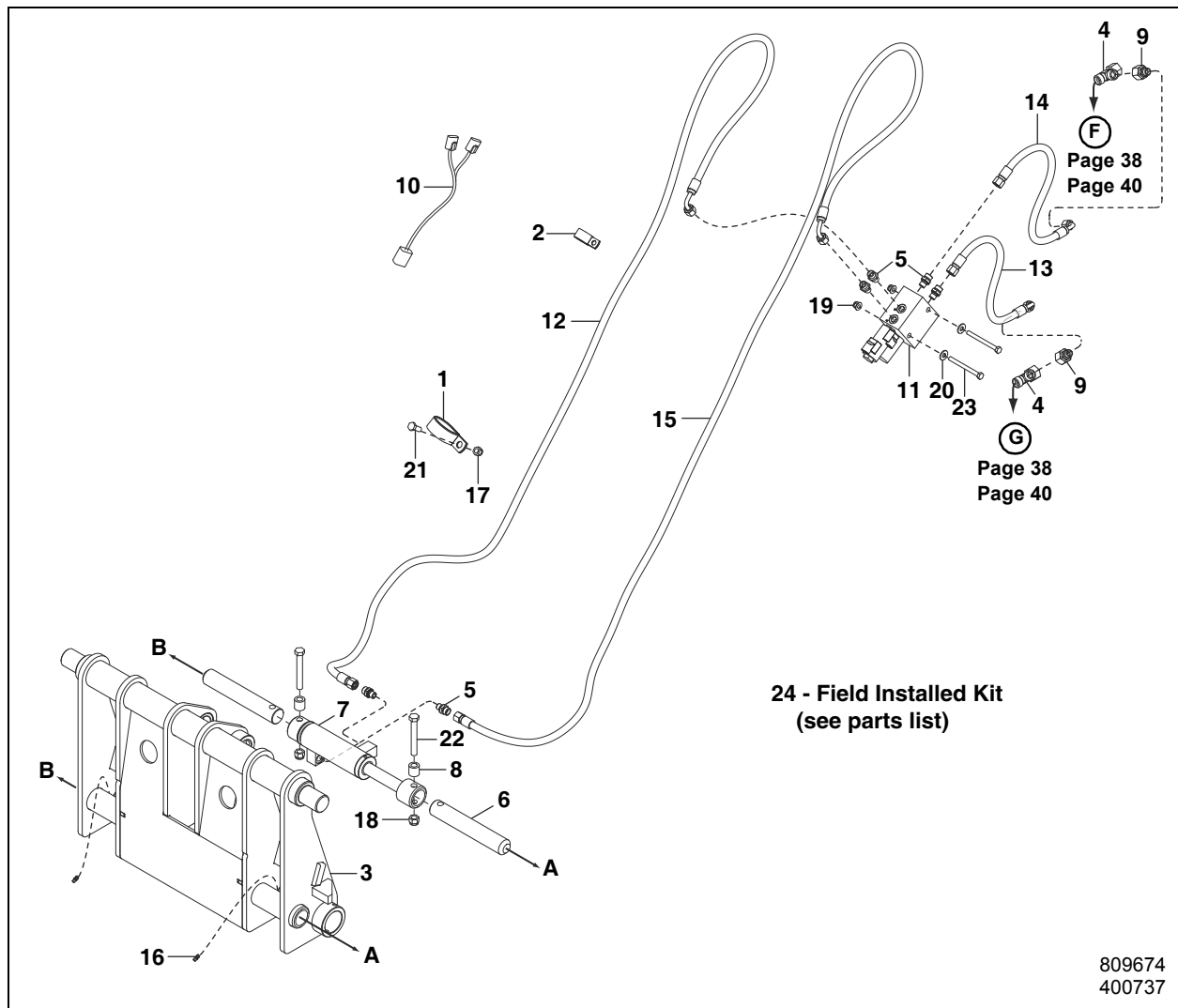
Ref. No.	Part No.	Description	Qty.
15	651706	LN INST FL M8-1.25 C8 ZY DIN6926	2
16	654004	FW 5/16 AWZY	2
17	656007	CS M10-1.5X25 C8.8 ZY DIN931	1
18	656089	CS M8-1.25X90 C8.8 ZY DIN931	2
19	809593	POWER-A-TACH KIT AL100	1

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

AL 140 - ATTACHMENTS

4-POINT HYDRAULIC QUICK-A-TACH (EU ONLY)



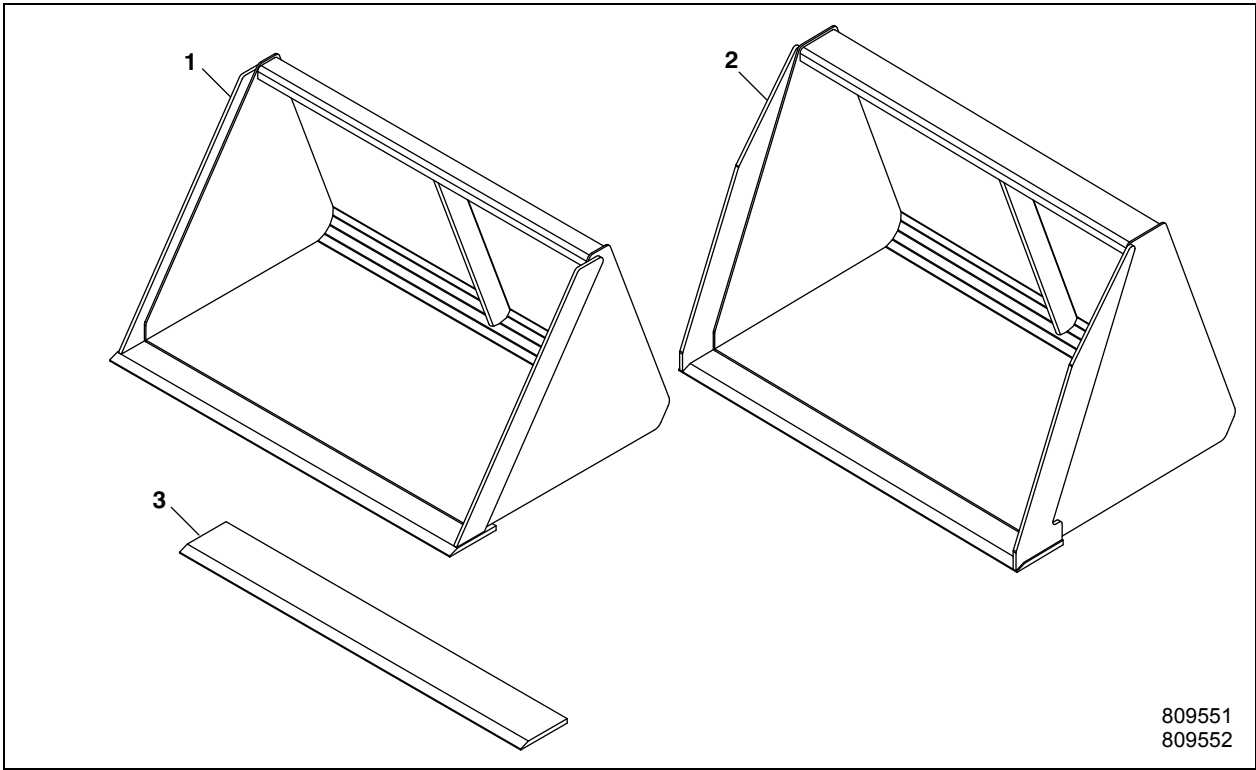
Ref. No.	Part No.	Description	Qty.
1	075196	CLAMP/HOSE 1.50 X .41 HOLE	1
2	097860	CLAMP/HOSE .69 X 41 HOLE DOUBLE	1
3	176403	WDMT/4-PT ALL-TACH	1
4	176527	TEE RUN MC15-MC15-FCS15-L**	2
5	176530	ST MC10-MBSPP04-L**	6
6	176667	PIN	2
7	176670	CYLINDER	1
8	176671	SPACER	2
9	176778	ST FCS15-MC10-L**	2
10	201479	HARNESS/HYD QUICK ATTACH	1
11	270917	VALVE/POWER-A-TACH (see Page 50 for details)	1
12	272474	HOSE/MP 5 X 2450MM*	1
13	274276	HOSE/MP 5 X 483MM*	1
14	274277	HOSE/MP 5 X 545MM*	1
15	275973	HOSE/MP 5 X 2388MM*	1
16	613052	FITTING/GREASE M6X1	2

Ref. No.	Part No.	Description	Qty.
17	651448	LN INS M10-1.5 C8 ZY DIN6924	1
18	651449	LN INST M12-1.75 C8 ZY DIN6924	2
19	651706	LN INST FL M8-1.25 C8 ZY DIN6926	2
20	654004	FW 5/16 AWZY	2
21	656007	CS M10-1.5X25 C8.8 ZY DIN931	1
22	656022	CS M12-1.75X90 C8.8 ZY DIN931	2
23	656089	CS M8-1.25X90 C8.8 ZY DIN931	2
24	809674	KIT/4-PT HYD Q ATTACH AL100	1

* See Page 93 for hose/o-ring information.

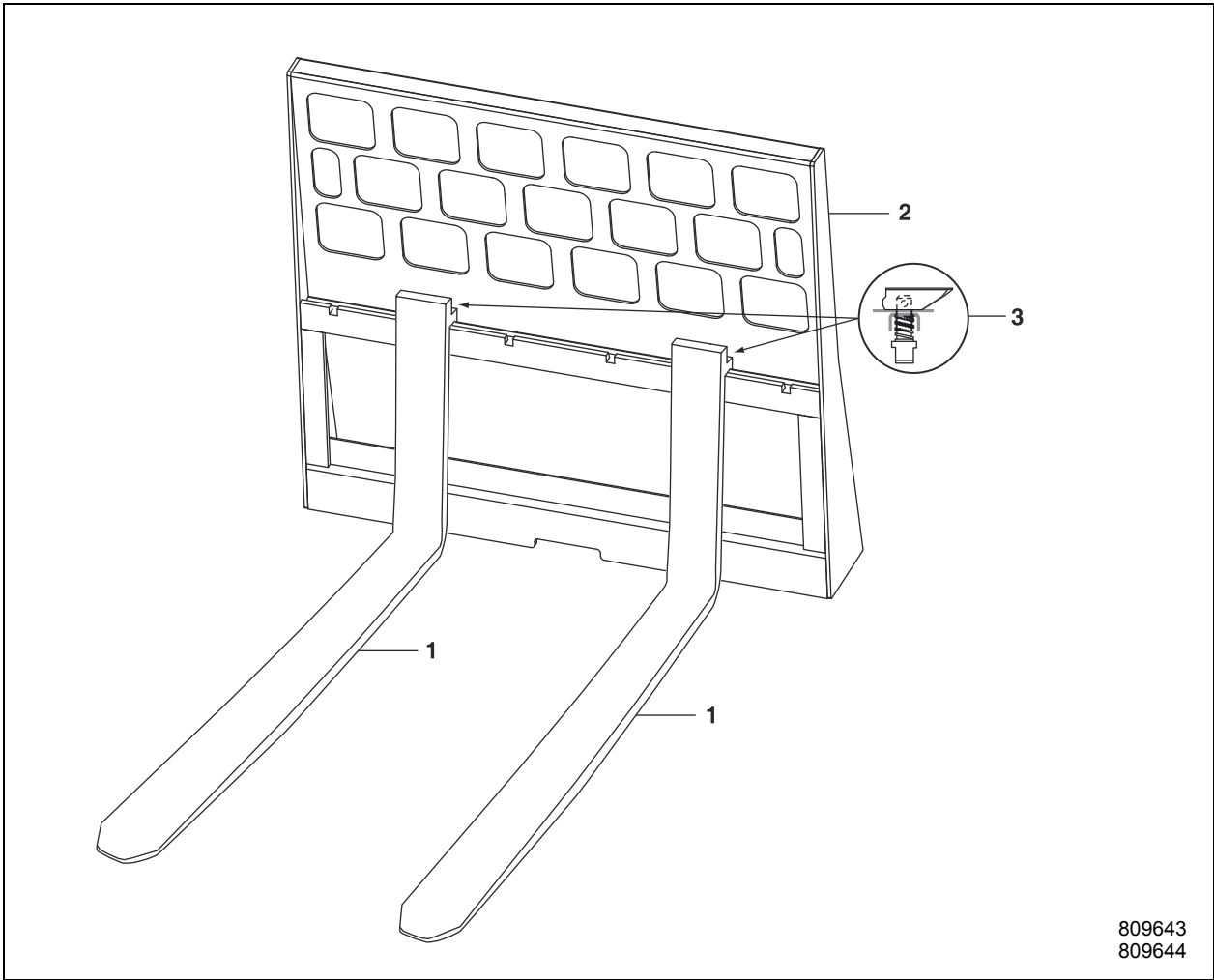
** See Page 92 for fitting/o-ring/seal information.

AL 140 - ATTACHMENTS
BUCKETS (DOMESTIC ONLY)



Ref. No.	Part No.	Description	Qty.
1	809551	BUCKET/44" D/C 10.6 CU FT	1
2	809552	BUCKET/44" UTILITY 13.0 CU. FT.	1
3	273101	CUTTING EDGE 44" (weld-on, used with both buckets shown above)	1

AL 140 - ATTACHMENTS
PALLET FORKS (DOMESTIC ONLY)



Ref. No.	Part No.	Description	Qty.
1	809643	FORK/PALLET 36"	2
2	809644	CARRIAGE PALLET FORK/36"	1
3	090003	KIT/LEVER (DYSON)	AR

GENERAL INFORMATION

Decal location information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted. Refer to the listing for the illustration reference number, part number, description and quantity of each decal. Refer to the appropriate illustrations for replacement locations.

To ensure proper selection of the correct replacement decals, compare all of the various closeup location drawings to your machine before starting to refinish the unit. Then circle each decal shown (applicable to your machine) while checking off its part number in the listing.

NOTE: *Refer to the SAFETY chapter of the Operator's Manual for specific information provided on the various safety decals.*

NEW DECAL APPLICATION

If there is a decal on a part that is to be replaced, be sure that the decal is applied to the replacement part. Surfaces **MUST** be free from dirt, dust, grease and other foreign material before applying the new decal. To apply, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Peel the other portion of the backing paper off slowly while applying hand pressure to smooth out the decal surface.

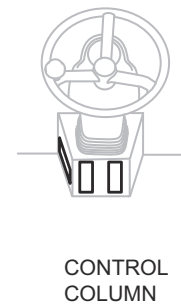
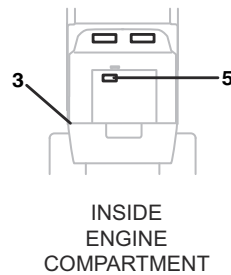
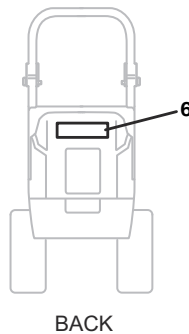
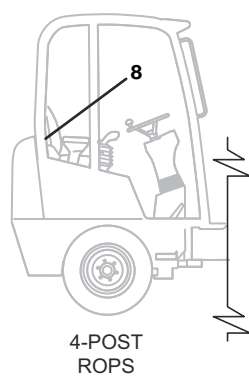
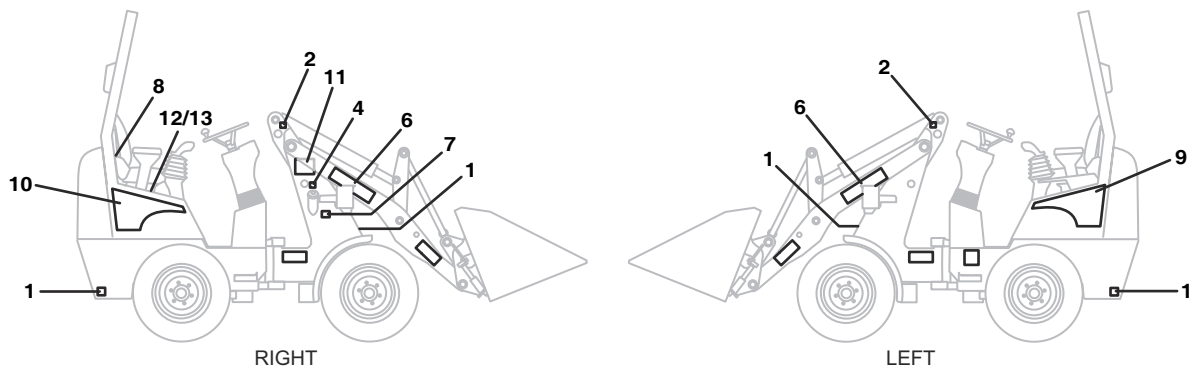


CAUTION

ALWAYS follow safety precautions on decals. Replace the decals if they are damaged, or if the unit is repainted. If repainting, **BE SURE** all applicable decals are affixed to your unit.

AL 140 - DECALS

COMMON DECALS



①



Located at the tie-down points at the front/rear of the machine

④



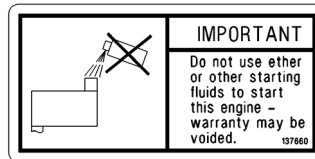
Located next to the fuel tank filler neck

②



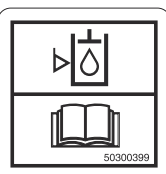
Located at the top of the front frame

⑤



Located on top of the radiator

③



Located next to the hydraulic fluid reservoir filler neck

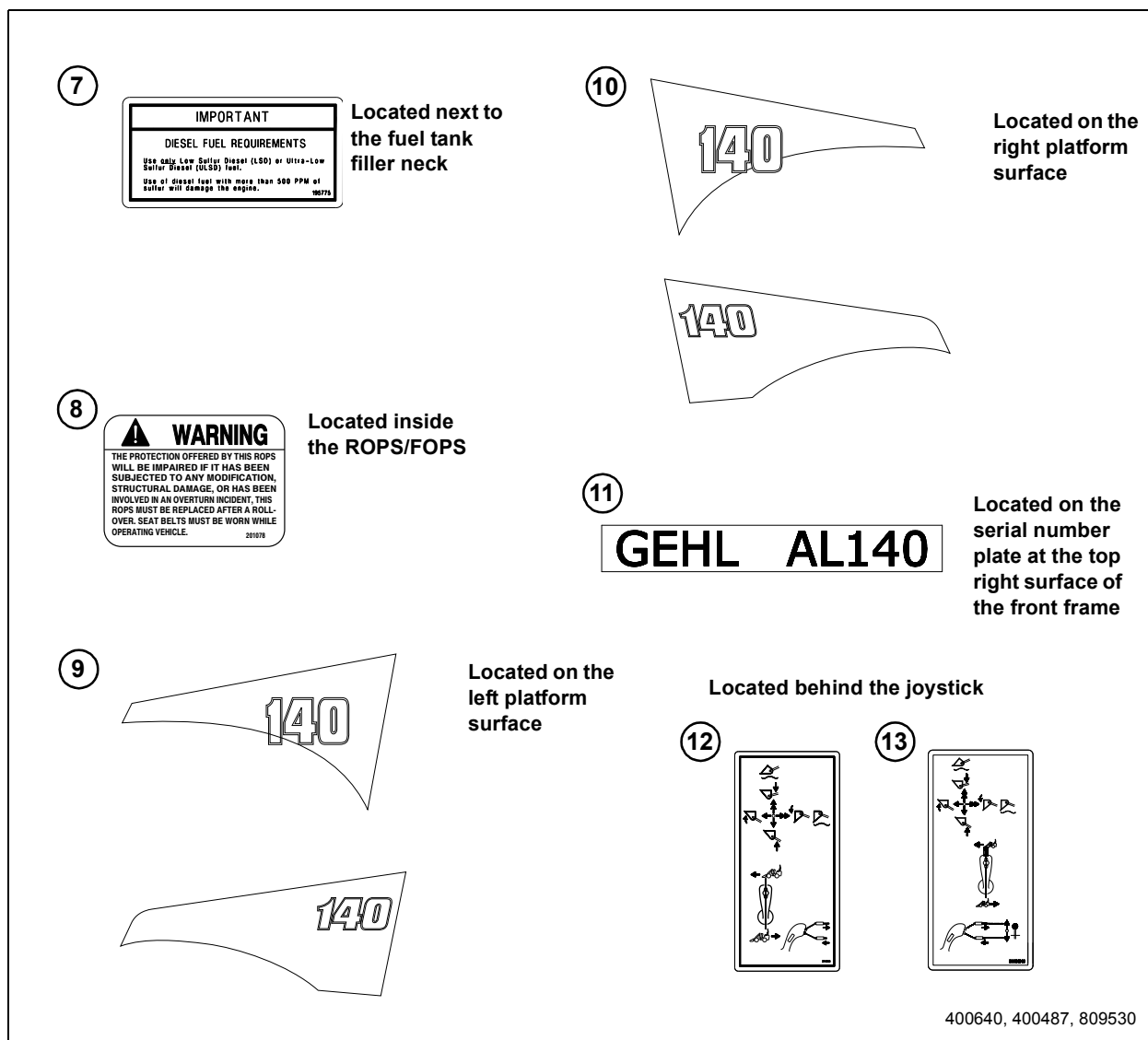
⑥



Located on the lift arms and the engine cover

400640, 400487, 809530

AL 140 - DECALS COMMON DECALS

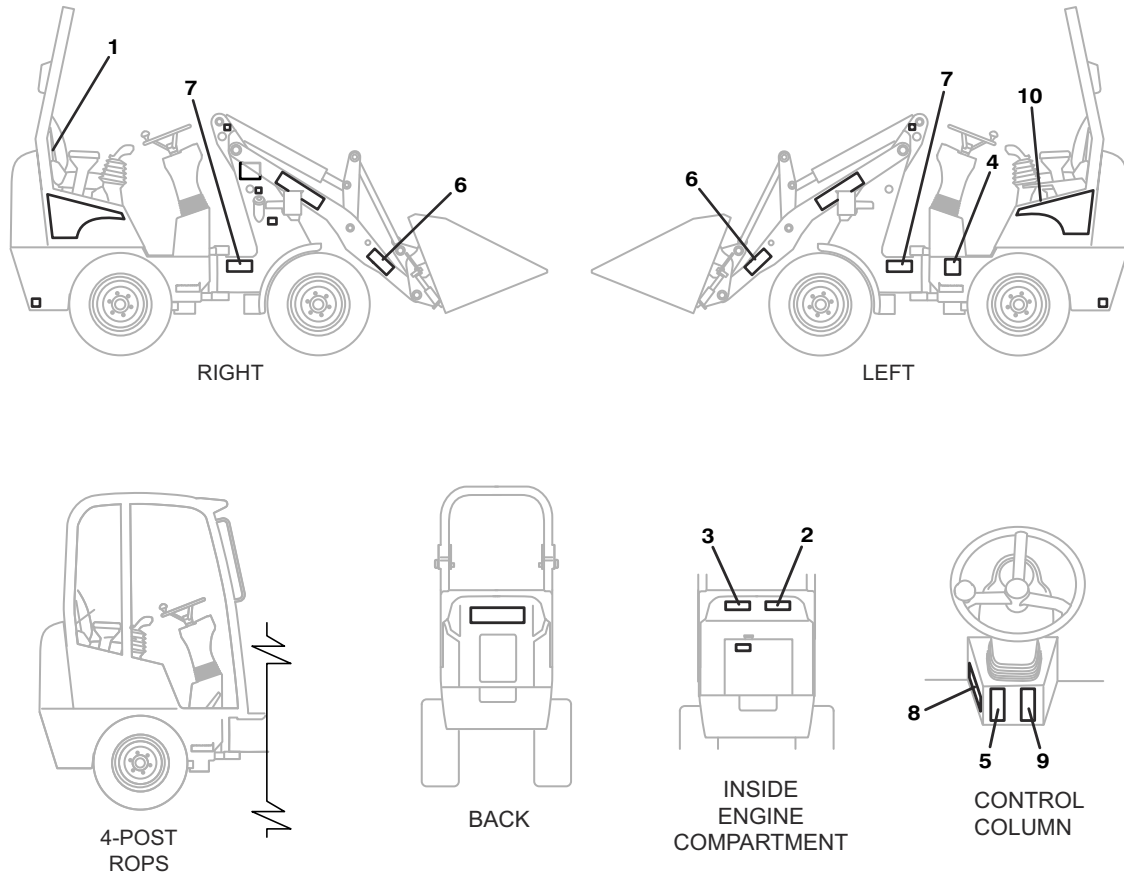


Ref. No.	Part No.	Description	Qty.
1	104945	DECAL/TIE DOWN	4
2	104946	DECAL/ LIFT POINT	2
3	50300399	DECAL/HYDRAULIC FILL	1
4	137634	DECAL/DIESEL FUEL	1
5	137660	DECAL/ETHER	1
6	50303615	DECAL/GEHL 3.69 X 15.92 (SN 11592 and Up)	3
	183963	DECAL/GEHL 3.75 X 15.92 (SN 11257 - 11591)	3
7	195775	DECAL/FUEL/SULFUR	1
8	201078	DECAL/WARNING	1
9	50303901	DECAL/MODEL AL140 LH (SN 11592 and Up)	1
	201522	DECAL/MODEL AL140 LH (SN 11257 - 11591)	1

Ref. No.	Part No.	Description	Qty.
10	50303902	DECAL/MODEL AL140 RH (SN 11592 and Up)	1
	201535	DECAL/MODEL AL140 RH (SN 11257 - 11591)	1
11	270086	DECAL/AL140 GEHL	1
12	274258	DECAL/JOYSTICK (SN 11257 - 11479)	1
13	50301543	DECAL/JOYSTICK (SN 11480 and Up)	1

AL 140 - DECALS

ANSI-STYLE DECALS



1



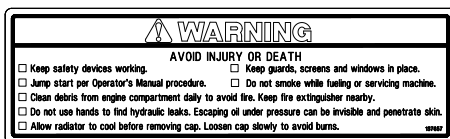
Located behind the operator's seat on the document box

4



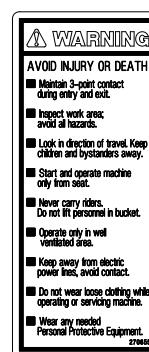
Located under the platform on the left rear wheel well

2



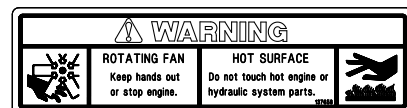
Located on the firewall inside the engine compartment

5



Located on the control column facing the operator

3

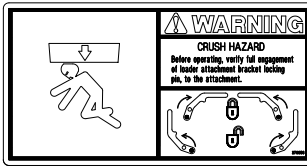


Located on the firewall inside the engine compartment

400487

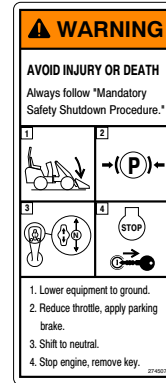
AL 140 - DECALS ANSI-STYLE DECALS

6



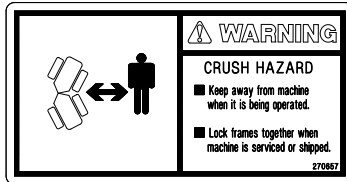
Located on
the lift arm

9



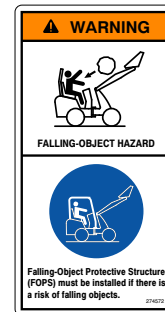
Located on
the control
column fac-
ing the opera-
tor

7



Located on top of
the articulating
steering joint

10



Located on
operator's
platform
beneath park
brake lever
(2-Post ROPS
only)

8



Located on the
control column
left surface

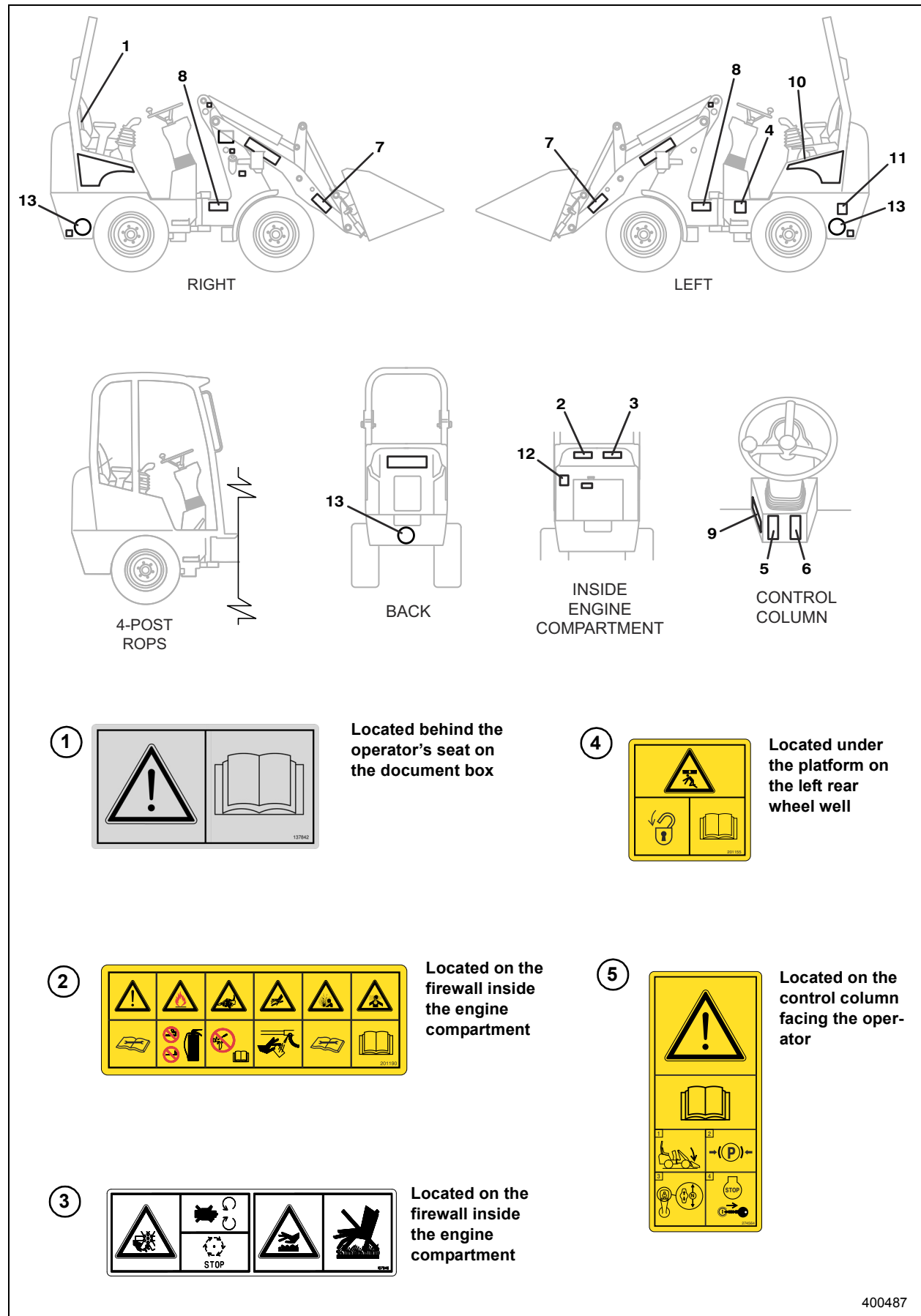
400487

Ref. No.	Part No.	Description	Qty.
1	137628	DECAL/WARNING MANUAL	1
2	137657	DECAL/WARNING GENERAL	1
3	137658	DECAL/DANGER HOT SURFACE	1
4	184214	DECAL/WARNING ROPS	1
5	270655	DECAL/WARNING GENERAL	1
6	270656	DECAL/ATTACHMENT BRACKET	2

Ref. No.	Part No.	Description	Qty.
7	270657	DECAL/CRUSHING WARNING	2
8	273706	DECAL/WARNING GENERAL	1
9	274507	DECAL/SAFETY SHUTDOWN	1
10	274572	DECAL/FOPS	1

AL 140 - DECALS

ISO-STYLE DECALS



6



Located on control column facing the operator

10



Located on operator's platform beneath park brake lever (2-Post ROPS only)

7



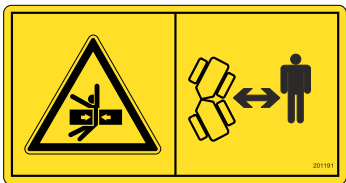
Located on both sides of the lift arm

11



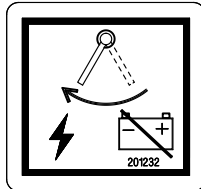
Located on the chassis near left rear wheel

8



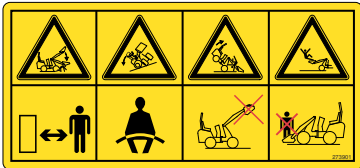
Located on each side of the front frame by the articulation joint

12



Located inside the engine compartment at the left side

9



Located on the control column left surface

13



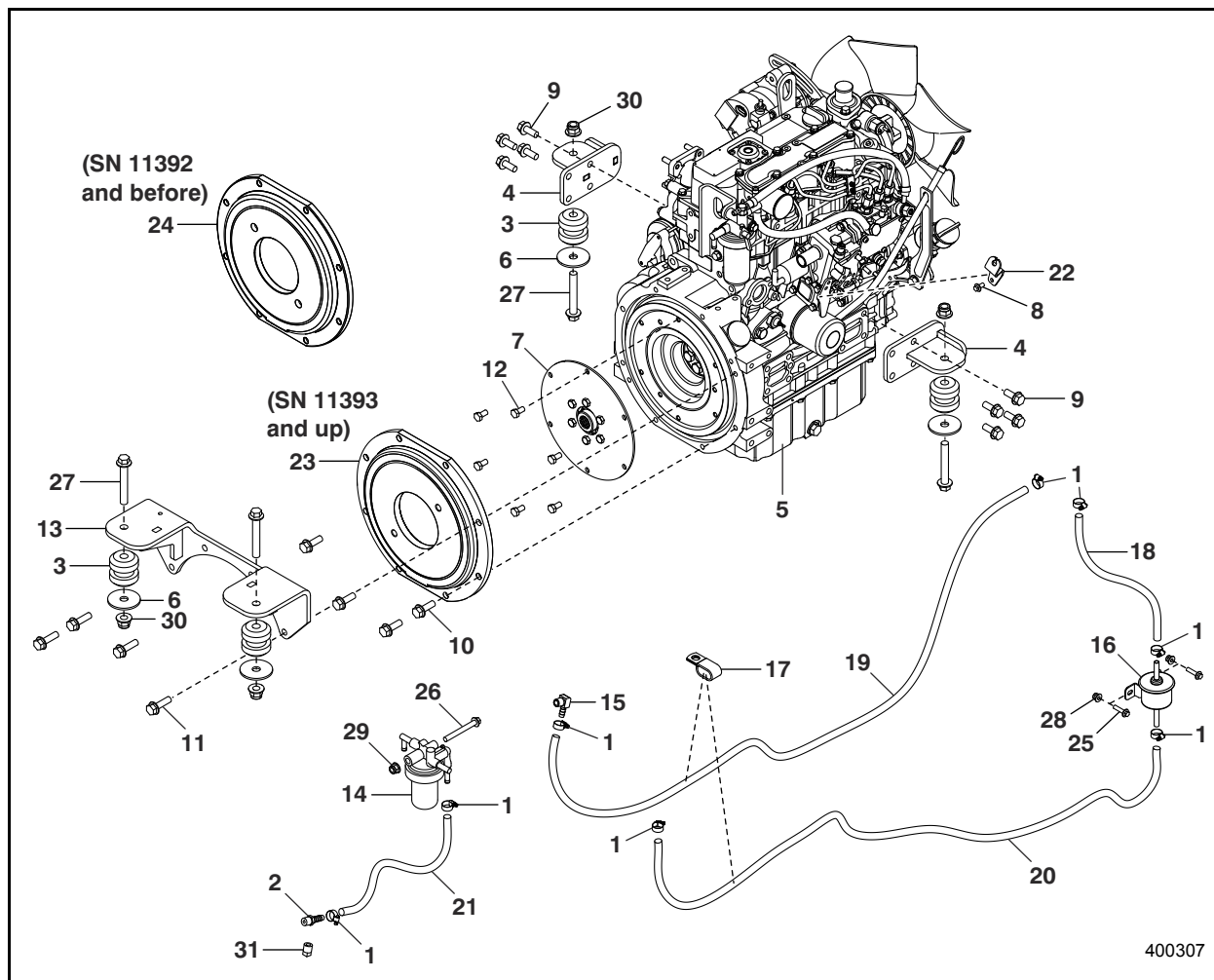
Located at the right and left rear of the chassis and the engine hood

400487

Ref. No.	Part No.	Description	Qty.
1	137842	DECAL/WARNING,MANUAL	1
2	201190	DECAL/WARNING GENERAL EU	1
3	137846	DECAL/DANGER HOT SURFACE	1
4	184711	DECAL/WARNING ROPS EU	1
5	274564	DECAL/SAFETY SHUTDOWN EU	1
6	201220	DECAL/WARNING GENERAL EU	1
7	201163	DECAL/ATTACHMENT BRACKET	2
8	201191	DECAL/CRUSHING WARNING	2

Ref. No.	Part No.	Description	Qty.
9	273901	DECAL/WARNING GENERAL	1
10	274028	DECAL/FOPS EU	1
11	189823	DECAL/SOUND 101	1
12	201232	DECAL/BAT DISCONNECT	1
13	270114	DECAL/MAX SPEED (road homologation only)	3

AL 140 - ENGINE ENGINE ASSEMBLY

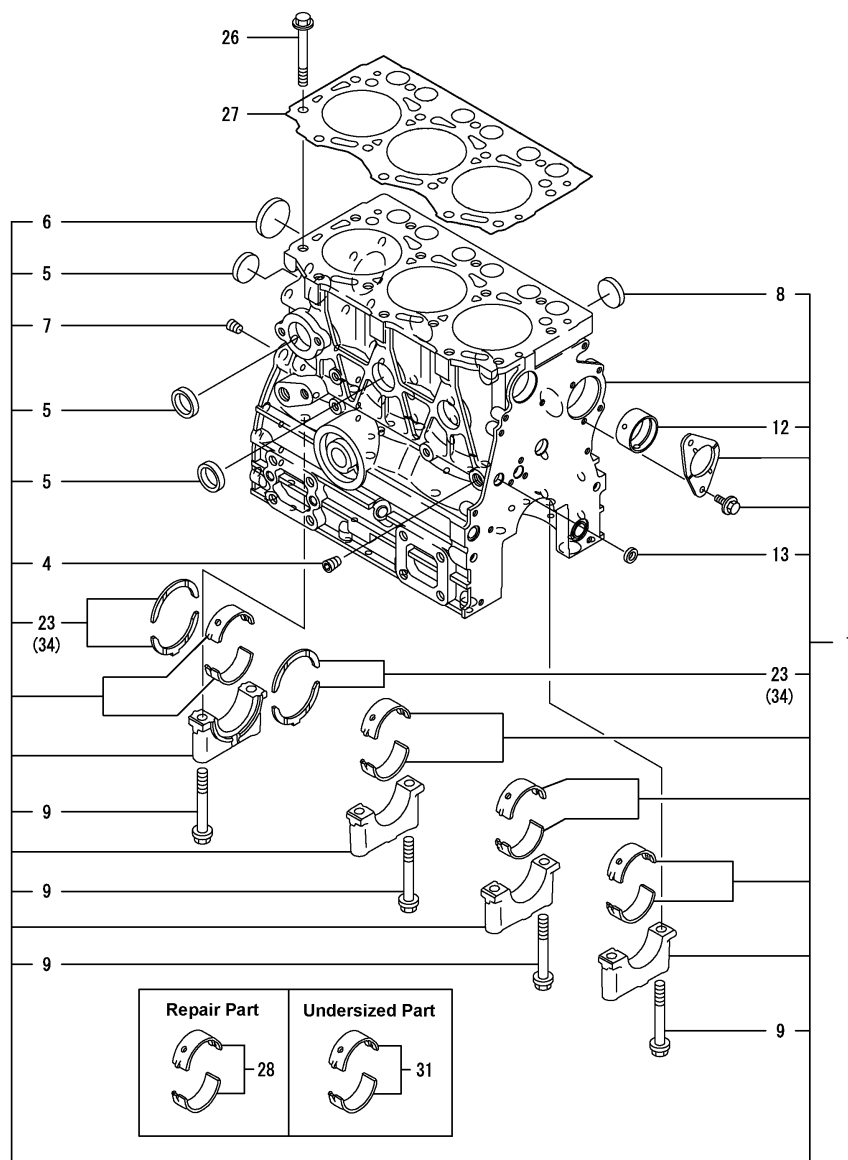


Ref. No.	Part No.	Description	Qty.
1	062023	CLAMP/HOSE #M5 1800	8
2	133074	FITTING 1/4 NPT-5/16 HOSEBRASS BARB	1
3	176047	ISOLATOR	4
4	176049	ASSY/ENGINE MOUNT REAR	2
5	176191	YANMAR ENGINE 3TNV76	1
6	176206	WASHER	4
7	176218	COUPLER	1
8	176651	CS FL M6-1.00X12 C8.8ZY SP DIN1662	1
9	176653	CS FLH M10-1.5X25 C8.8ZY SP DIN1665 *	8
10	176654	CS FLH M10-1.5X30 C8.8ZY SP DIN1665 *	4
11	176655	CS FLH M10-1.5X35 C8.8ZY SP DIN1665 *	4
12	176658	CS M8-1.25X16 C8.8ZY SP DIN931 *	6
13	176709	ASSY/ENGINE MOUNT	1
14	185466	SEPARATOR/WATER (see Page 84 for details)	1
15	186080	FITTING 5/16 BARB/ 90°	1
16	186308	PUMP ASSY FUEL FEED	1

Ref. No.	Part No.	Description	Qty.
17	194166	CLAMP/HOSE .62 X .47 HOLE DOUBLE	1
18	201060	FUEL LINE FILTER-PUMP	1
19	201063	FUEL LINE RETURN	1
20	201064	FUEL LINE PUMP-SEPARATOR	1
21	201065	FUEL LINE SEPARATOR-TANK	1
22	201165	THROTTLE CABLE BRACKET	1
23	275486	PLATE/PUMP MOUNT (SN 11393 and up) (to Hydraulic Drive)	1
24	176217	PLATE/PUMP MOUNT (SN 11392 and before) (to Hydraulic Drive)	1
25	651694	CS FL M6-1.00X25 C8.8 ZY DIN1662	2
26	651696	CS FL M8-1.25X70 C8.8 ZY DIN1662	1
27	651700	CS FL M12-1.75X80 C8.8 ZY DIN1662	4
28	651705	LN INST FL M6-1.00 C8 ZY DIN6926	2
29	651706	LN INST FL M8-1.25 C8 ZY DIN6926	1
30	651708	LN INST FL M12-1.75 C8 ZY DIN6926	4
31	L72019	PLUG/PIPE .25	1

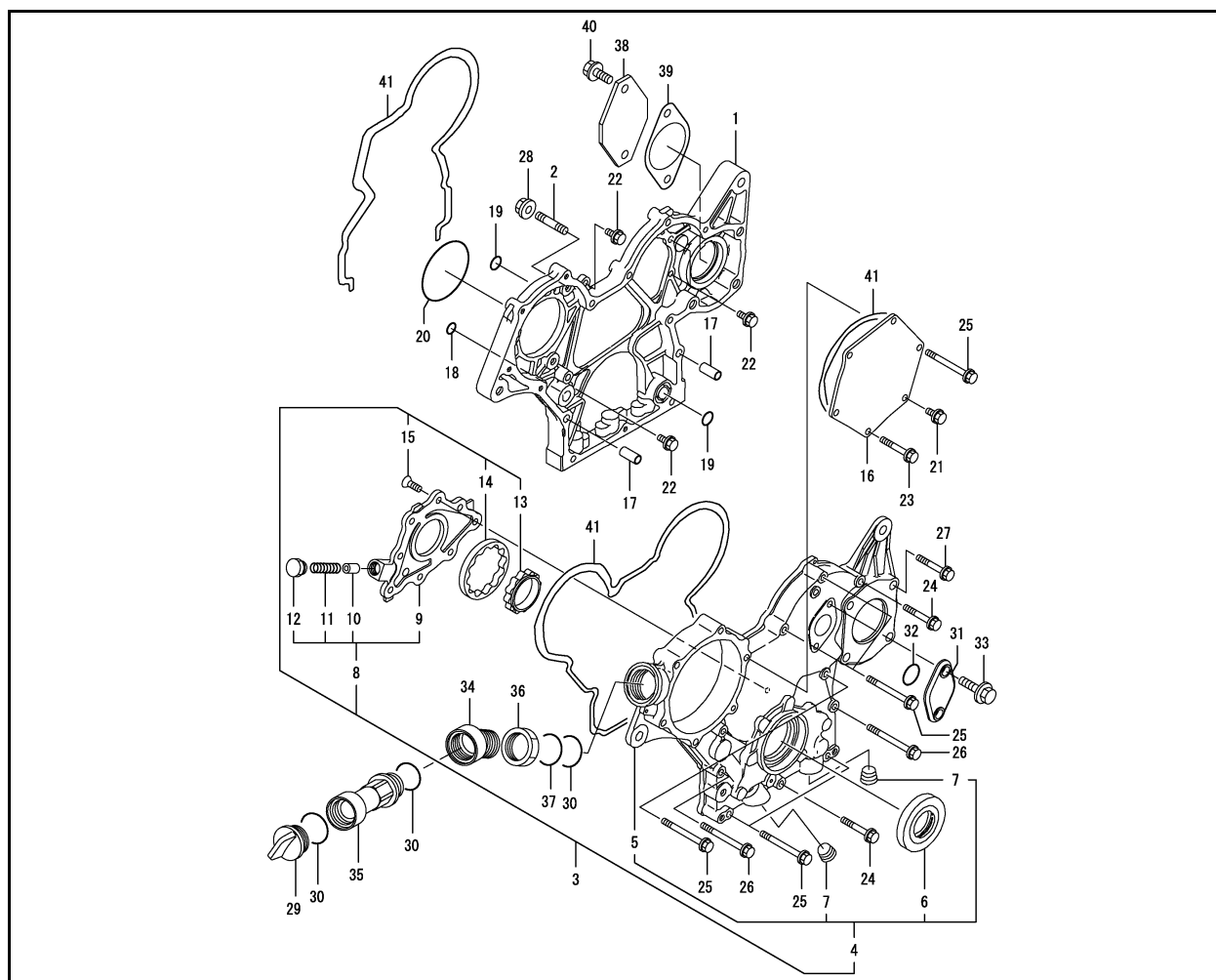
* Re-use of bolts requires Loctite® 262 or equivalent.

AL 140 - ENGINE CYLINDER BLOCK



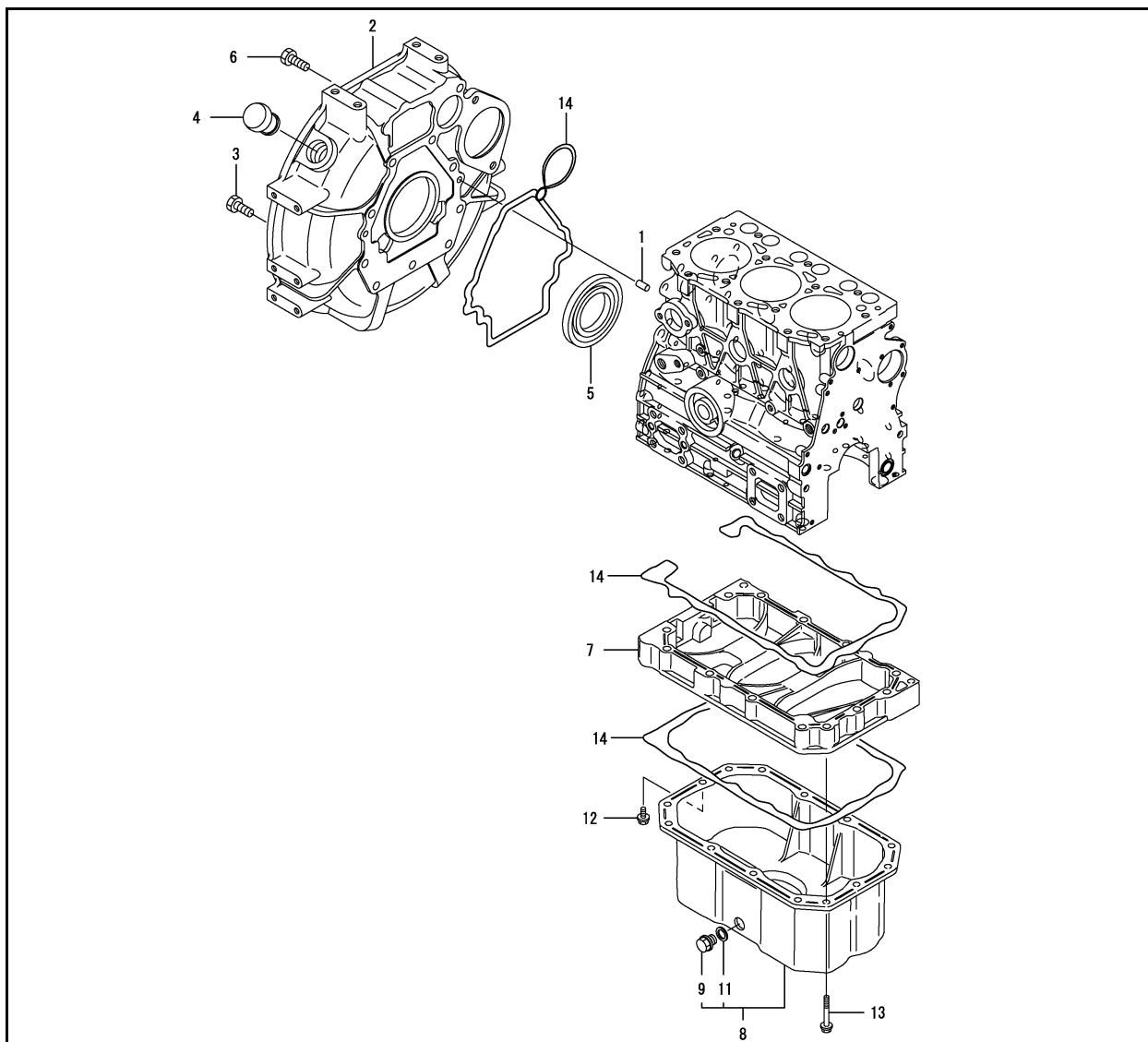
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203072	CYLINDER BLOCK ASSY	1	13	425-34725	PLUG 12	1
4	425-34723	PIPE THREAD PLUG 1/8"	1	23	203077	THRUST BEARING	2
5	203073	PLUG 30	4	26	203078	HEAD BOLT	14
6	203074	PLUG 45	1	27	203079	HEAD GASKET	1
7	425-34721	PIPE THREAD PLUG 1/4"	1	28	203080	MAIN BEARING SET (2)	4
8	203075	PLUG 25	3	31	203081	MAIN BEARING (US=0.25)	4
9	425-35149	BOLT	8	34	203082	THRUST BEARING (OS=0.25)	2
12	203076	CAMSHAFT BUSHING	1				

AL 140 - ENGINE GEAR HOUSING



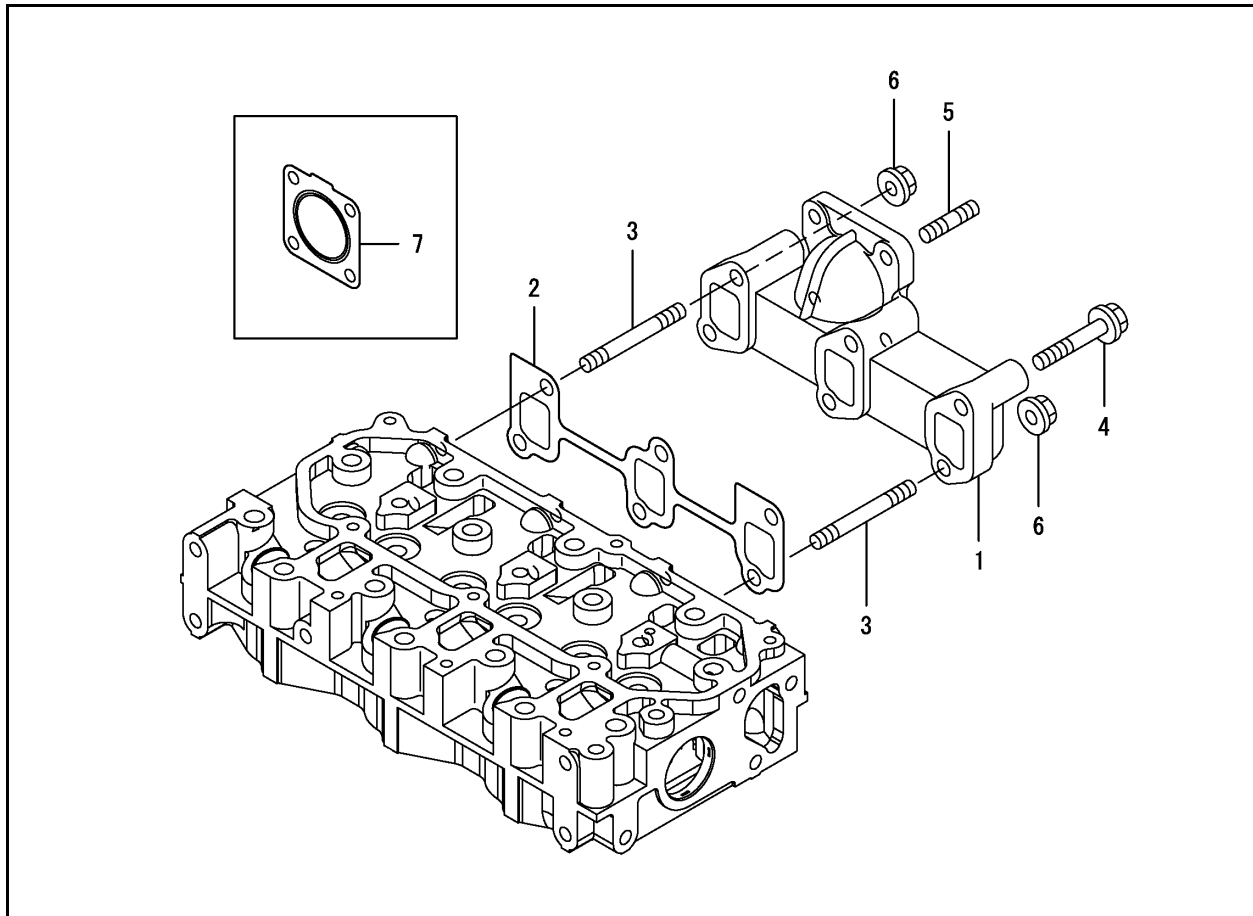
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203083	GEAR CASE	1	22	425-35164	BOLT M6 X 16 PLATED	4
2	203084	BOLT STUD M8	3	23	425-34998	BOLT M6 X 40 PLATED	4
3	203085	GEAR CASE COVER COMPLETE	1	24	425-34998	BOLT M6 X 40 PLATED	2
4	203086	GEAR CASE COVER ASSY	1	25	425-35166	BOLT M6 X 60 PLATED	7
5	203087	GEAR CASE COVER	1	26	425-35673	BOLT M6 X 65 PLATED	2
6	203088	OIL SEAL	1	27	425-34761	BOLT M8 X 35 PLATED	3
7	425-36260	PLUG	2	28	138140	NUT	3
8	203089	PUMP COVER ASSY	1	29	425-34740	FILLER CAP	1
9	203090	OIL PUMP COVER	1	30	425-34745	O-RING 1A P-32.0	3
10	188680	RELIEF VALVE	1	31	270949	COVER	1
11	203091	SPRING	1	32	425-34763	O-RING 1A S-24.0	1
12	188536	PLUG	1	33	425-35164	BOLT M6 X 16 PLATED	2
13	203092	INNER ROTOR	1	34	185643	ADAPTER	1
14	203093	OUTER ROTOR	1	35	137949	PIPE	1
15	188484	SCREW M6 X 16	8	36	185644	NUT	1
16	203094	TIMING PUMP COVER	1	37	185645	O-RING	1
17	425-35661	KNOCK PIPE	4	38	203097	PUMP COVER	1
18	203095	O-RING P 12.0	1	39	203098	GASKET	1
19	203096	O-RING P 17.0	3	40	425-34733	BOLT M8 X 16 PLATED	2
20	425-34681	GEAR HOUSING O-RING	1	41	138154	GASKET/LIQUID	AR
21	186615	BOLT M6 X 12 PLATED	1				

AL 140 - ENGINE FLYWHEEL HOUSING / OIL PAN



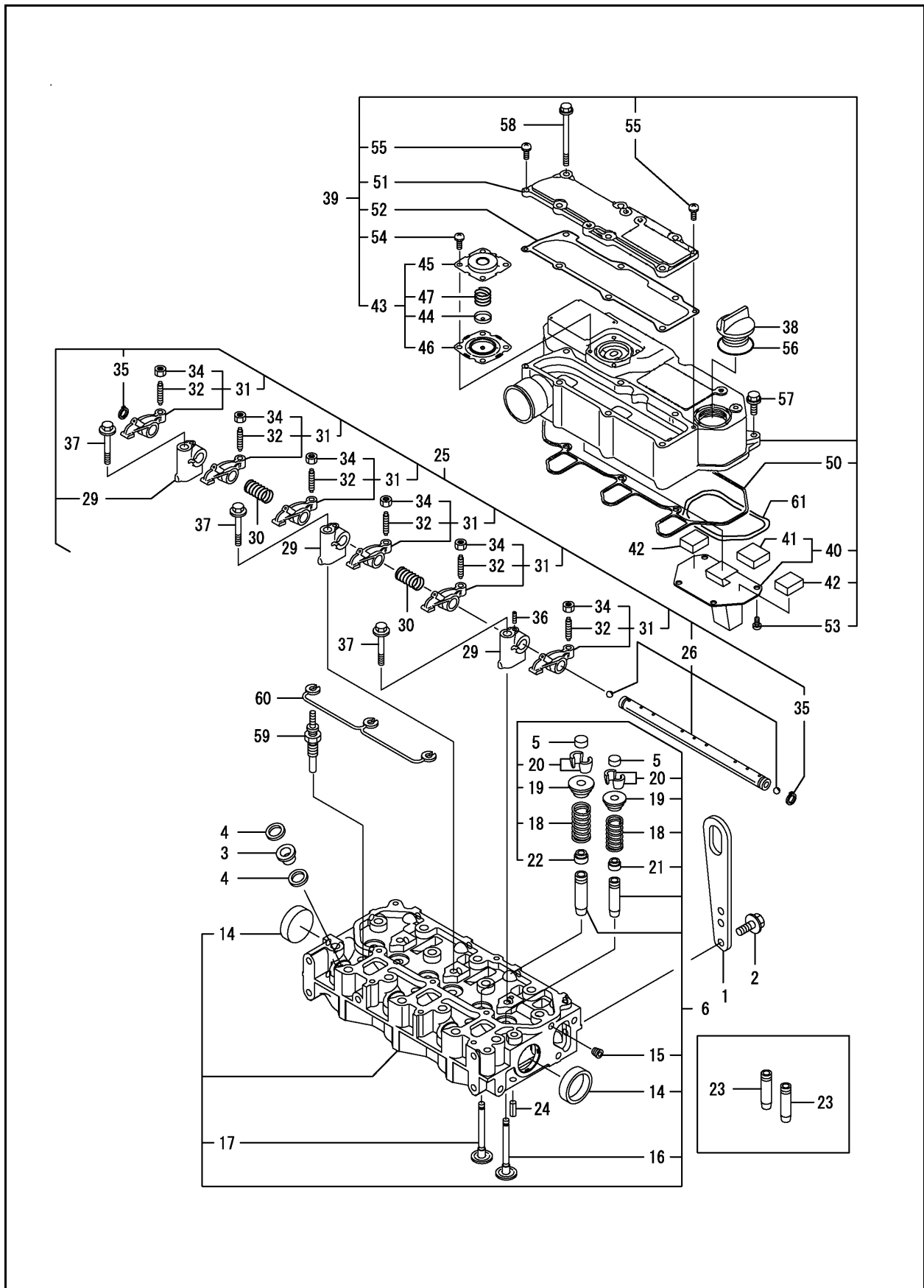
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	188573	PARALLEL PIN 8 X 16	2	8	203101	OIL PAN ASSY	1
2	203099	FLYWHEEL HOUSING	1	9	425-35495	PLUG 22	1
3	425-35182	BOLT M10 X 28	3	11	425-35949	SEAL WASHER 16S	1
4	425-34756	FILLER CAP	1	12	425-34765	BOLT M8 X 25 PLATED	1
5	425-35179	OIL SEAL	1	13	425-34838	BOLT M8 X 60 PLATED	13
6	188749	BOLT M10 X 25	7	14	138154	GASKET/LIQUID	AR
7	203100	OIL PAN SPACER	1				

AL 140 - ENGINE EXHAUST MANIFOLD



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203130	EXHAUST MANIFOLD	1	5	425-36249	BOLT M8 X 22	4
2	203131	MANIFOLD GASKET	1	6	138140	NUT	2
3	203132	STUD M8 X 50	2	7	188546	MUFFLER GASKET	1
4	203133	BOLT M8 X 50 PLATED	4				

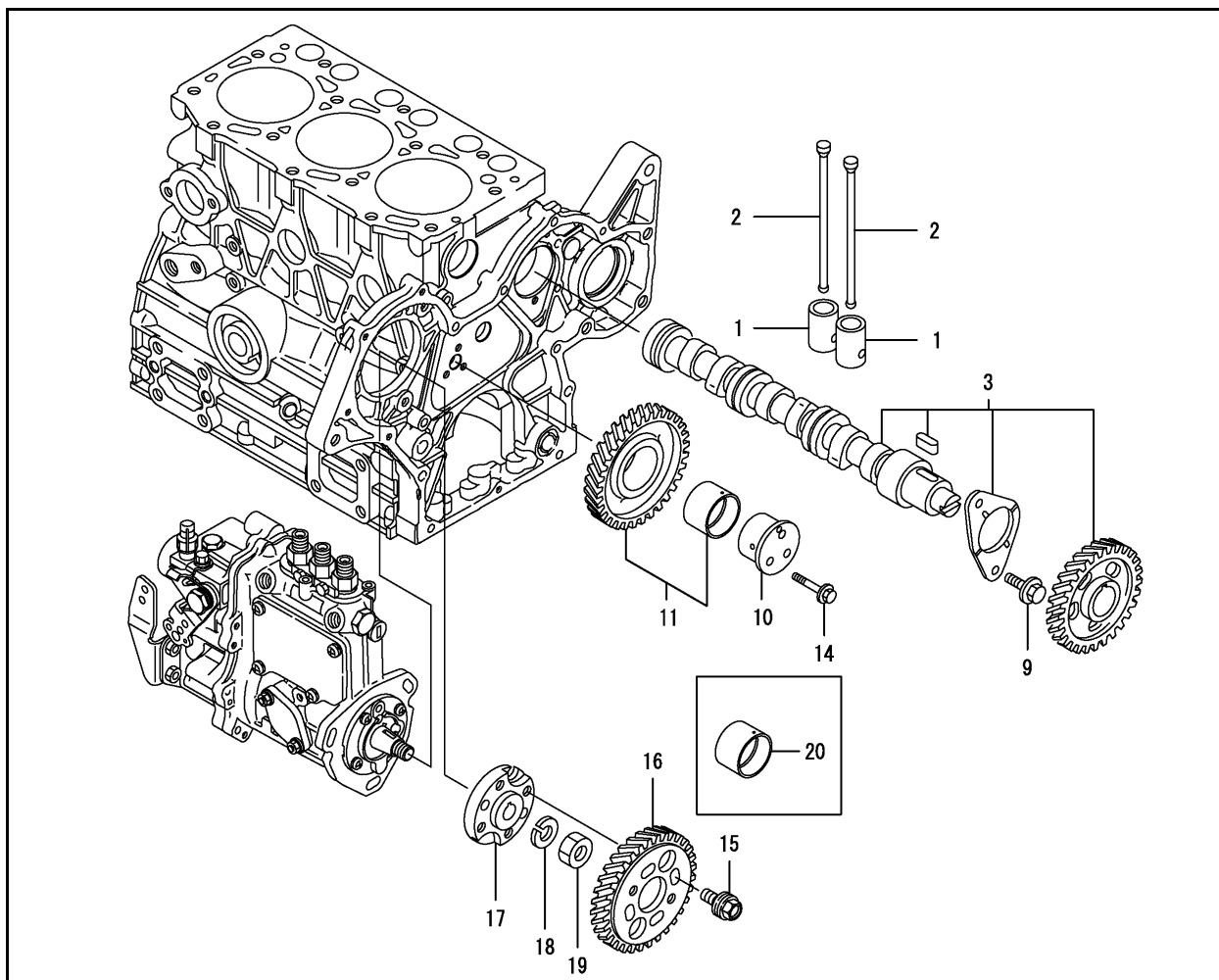
AL 140 - ENGINE CYLINDER HEAD AND COVER



AL 140 - ENGINE CYLINDER HEAD AND COVER

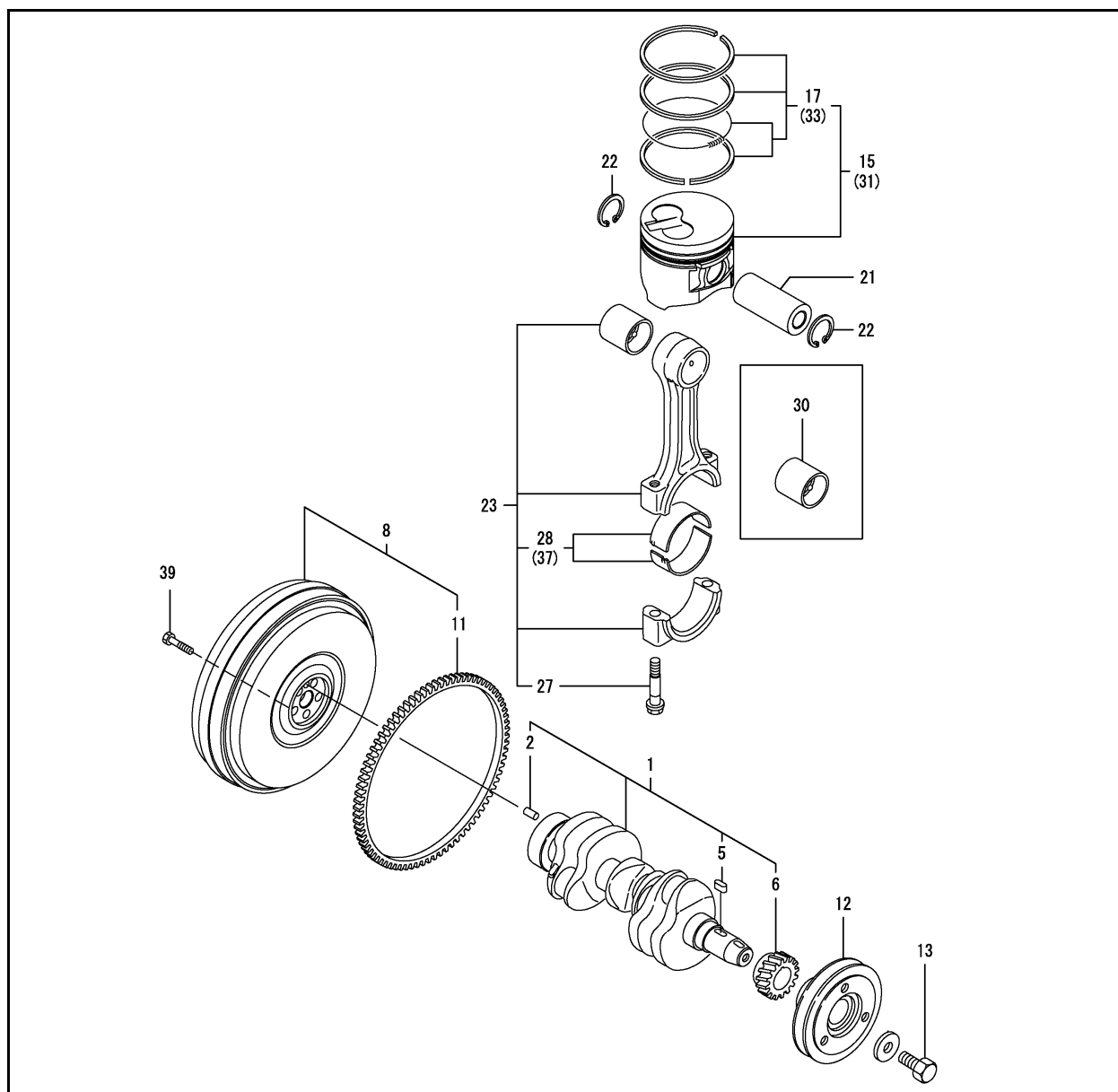
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	188679	LIFT BRACKET	1	36	425-35204	SCREW M5 X 16	1
2	425-34733	BOLT M8 X 16 PLATED	2	37	425-34805	BOLT M8 X 40 PLATED	3
3	203102	NOZZLE GUARD	3	38	425-34740	FILLER CAP	1
4	425-35195	NOZZLE GASKET	6	39	203118	VALVE COVER ASSY	1
5	203103	VALVE CAP	6	40	203119	BAFFLE PLATE	1
6	203104	CYLINDER HEAD ASSY	1	41	203120	BAFFLE BREATHER	1
14	203105	PLUG 35	2	42	203120	BAFFLE BREATHER	2
15	138124	PIPE THREAD PLUG 1/16"	1	43	203121	DIAPHRAGM ASSY	1
16	203106	INTAKE VALVE	3	44	188465	DIAPHRAGM PLATE	1
17	203107	EXHAUST VALVE	3	45	188466	DIAPHRAGM COVER	1
18	203108	VALVE SPRING	6	46	203122	DIAPHRAGM	1
19	197523	RETAINER	6	47	188469	DIAPHRAGM SPRING	1
20	197455	RETAINER	12	50	203123	VALVE COVER GASKET	1
21	197456	VALVE SEAL	3	51	203124	BONNET COVER	1
22	197457	VALVE SEAL	3	52	203125	BONNET GASKET	1
23	197458	VALVE GUIDE	6	53	186598	SCREW 5 X 10 TAPPING	4
24	425-34783	SPRING PIN 6 X 12	2	54	186598	SCREW 5 X 10 TAPPING	4
25	203114	ROCKER ARM ASSY	1	55	197787	SCREW 5 X 16	2
26	203115	ROCKER ARM SHAFT	1	56	425-34745	O-RING 1A P-32.0	1
29	203116	ROCKER ARM SUPPORT	3	57	188732	BOLT M6 X 20 PLATED	3
30	425-35202	ARM SHAFT SPRING	2	58	203127	BOLT M6 X 75 PLATED	6
31	203117	ROCKER ASSY	6	59	203128	GLOW PLUG	3
32	188596	VALVE SCREW	6	60	203129	GLOW PLUG CONNECTOR	1
34	425-34791	NUT M8 X P-1.0	6	61	138154	GASKET/LIQUID	AR
35	425-35203	CIRCLIP 12	2				

AL 140 - ENGINE CAMSHAFT



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	425-35220	TAPPET	6	15	425-36187	BOLT	4
2	203134	PUSH ROD	6	16	203138	INJECTION PUMP GEAR	1
3	203135	CAMSHAFT ASSY	1	17	203139	FLANGE	1
9	186615	BOLT M6 X 12 PLATED	2	18	425-34902	SPRING WASHER 12	1
10	203136	IDLER GEAR SHAFT	1	19	210-32084	HEX NUT M12 X 1.75	1
11	203137	IDLER GEAR ASSY	1	20	203140	IDLER GEAR BUSHING	1
14	425-35705	BOLT	3				

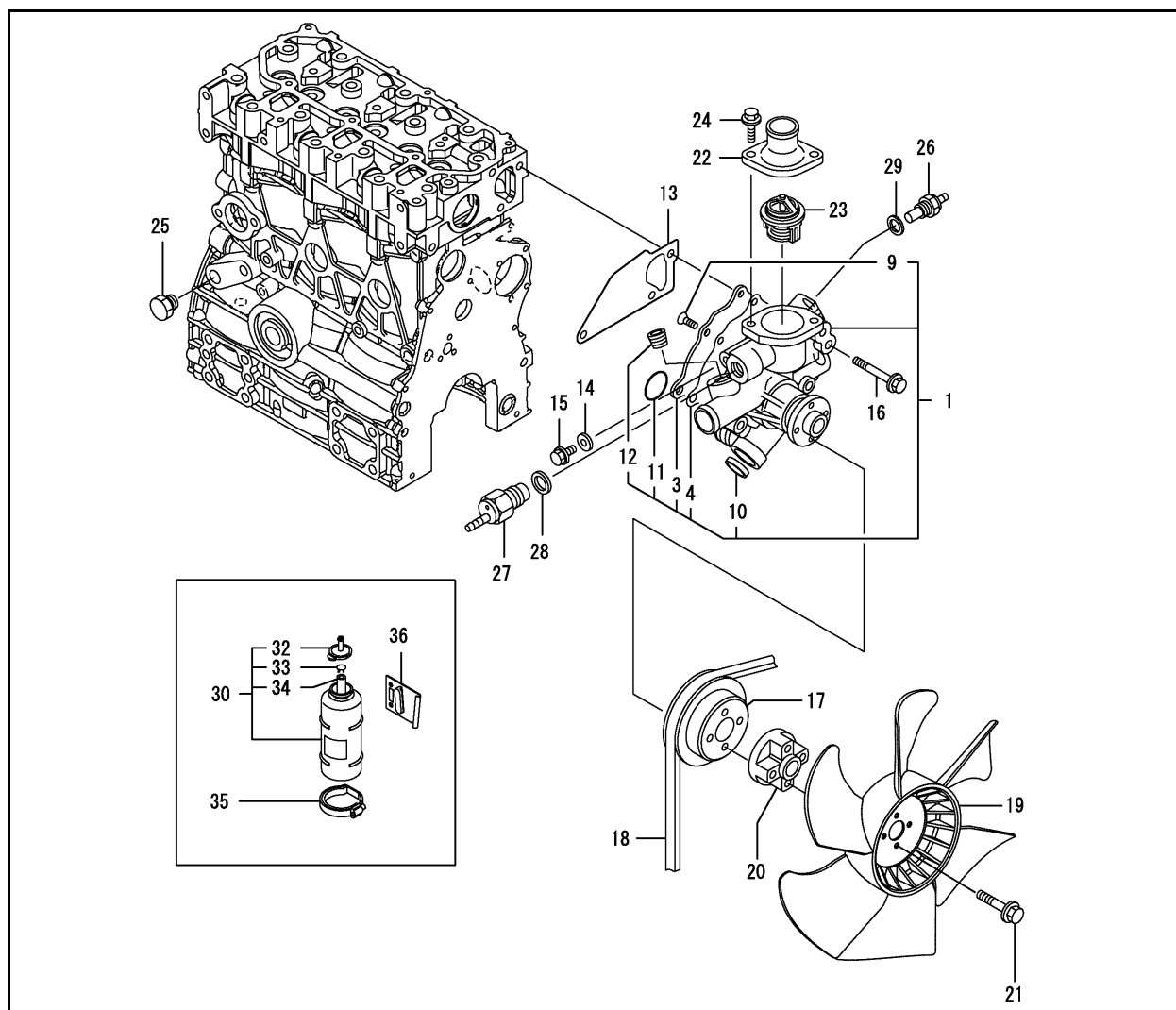
AL 140 - ENGINE CRANKSHAFT / PISTON



Ref. No.	Part No.	Description	Qty.
1	203141	CRANKSHAFT ASSY	1
2	188573	PARALLEL PIN 8 X 16	1
5	425-35222	KEY 4 X 12	1
6	203142	CRANKSHAFT GEAR	1
8	203233	FLYWHEEL ASSY	1
11	425-35712	RING GEAR	1
12	203144	CRANKSHAFT PULLEY	1
13	425-35238	FLANGE BOLT M12 X 1.25	1
15	203145	PISTON W/RING	3
17	203146	RING SET	3
21	203147	PISTON PIN	3

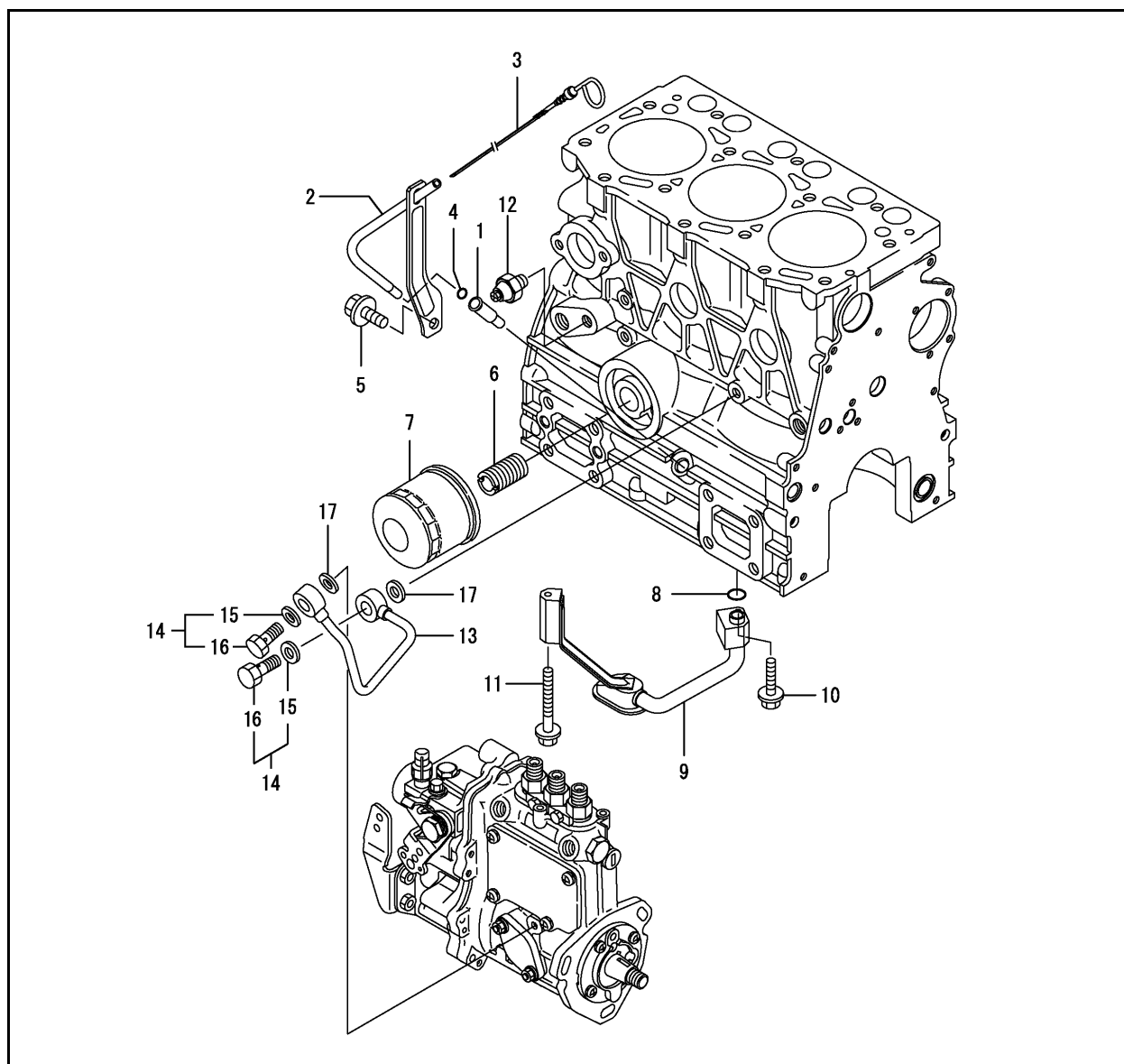
Ref. No.	Part No.	Description	Qty.
22	203148	CIRCLIP 22	6
23	203149	CONNECTING ROD ASSY	3
27	203150	CONNECTING ROD BOLT	6
28	203151	ROD BEARING SET (2)	3
30	203152	PISTON PIN BUSHING	3
31	203153	PISTON ASSY (OS=0.25)	3
33	203154	RING SET (OS=0.25)	3
37	203155	ROD BEARING SET (US=0.25)	3
39	203156	FLYWHEEL BOLT	5

AL 140 - ENGINE COOLING SYSTEM



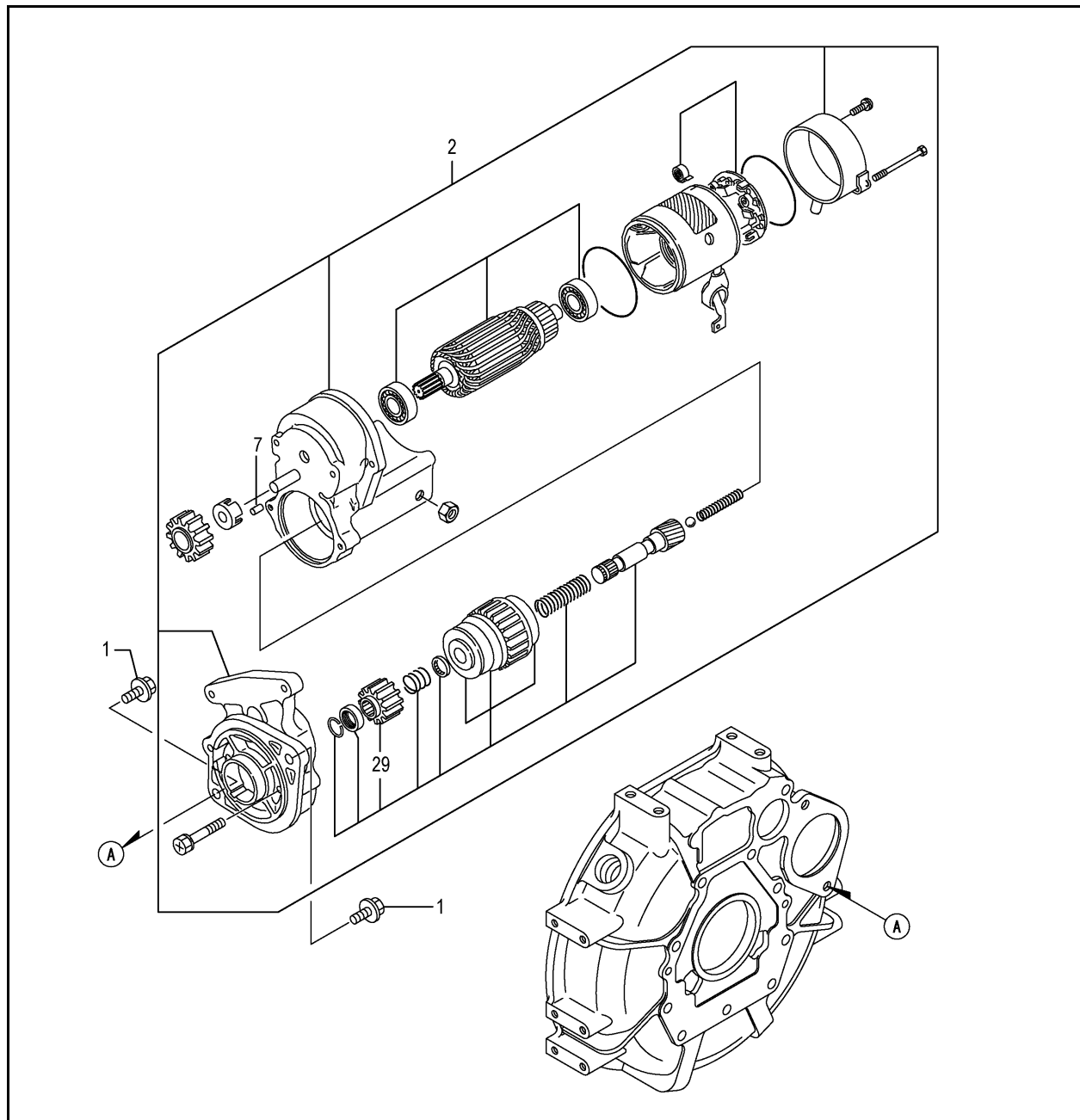
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203163	WATER PUMP ASSY	1	22	425-34843	THERMOSTAT COVER	1
3	203164	COVER	1	23	203172	THERMOSTAT	1
4	203165	GASKET	1	24	425-34746	BOLT M8 X 20 PLATED	2
9	203166	SCREW M6 X 12	5	25	270970	DRAIN PLUG	1
10	425-35657	PLUG 25	1	26	138076	THERMOMETER	1
11	203167	O-RING	1	27	425-34683	THERMOSTAT SWITCH 110° C	1
12	188686	DRAIN PLUG	1	28	160427	SEAL	1
13	203168	WATER PUMP GASKET	1	29	425-34707	SEAL	1
14	425-34727	SEAL	1	30	425-36233	WATER BOTTLE	1
15	425-34729	BOLT M8 X 12 PLATED	1	32	188526	CAP	1
16	425-34766	BOLT M8 X 50 PLATED	3	33	186461	RETAINER	1
17	203169	WATER PUMP PULLEY	1	34	188720	PIPE 7 X 230	1
18	188730	V-BELT	1	35	425-36235	CLAMP	1
19	203170	FAN (NEW SUPPLIER P/N)	1	36	425-36152	BRACKET	1
20	203171	SPACER (18MM)	1				
21	425-35165	BOLT M6 X 30 PLATED	4				

AL 140 - ENGINE LUBRICATION



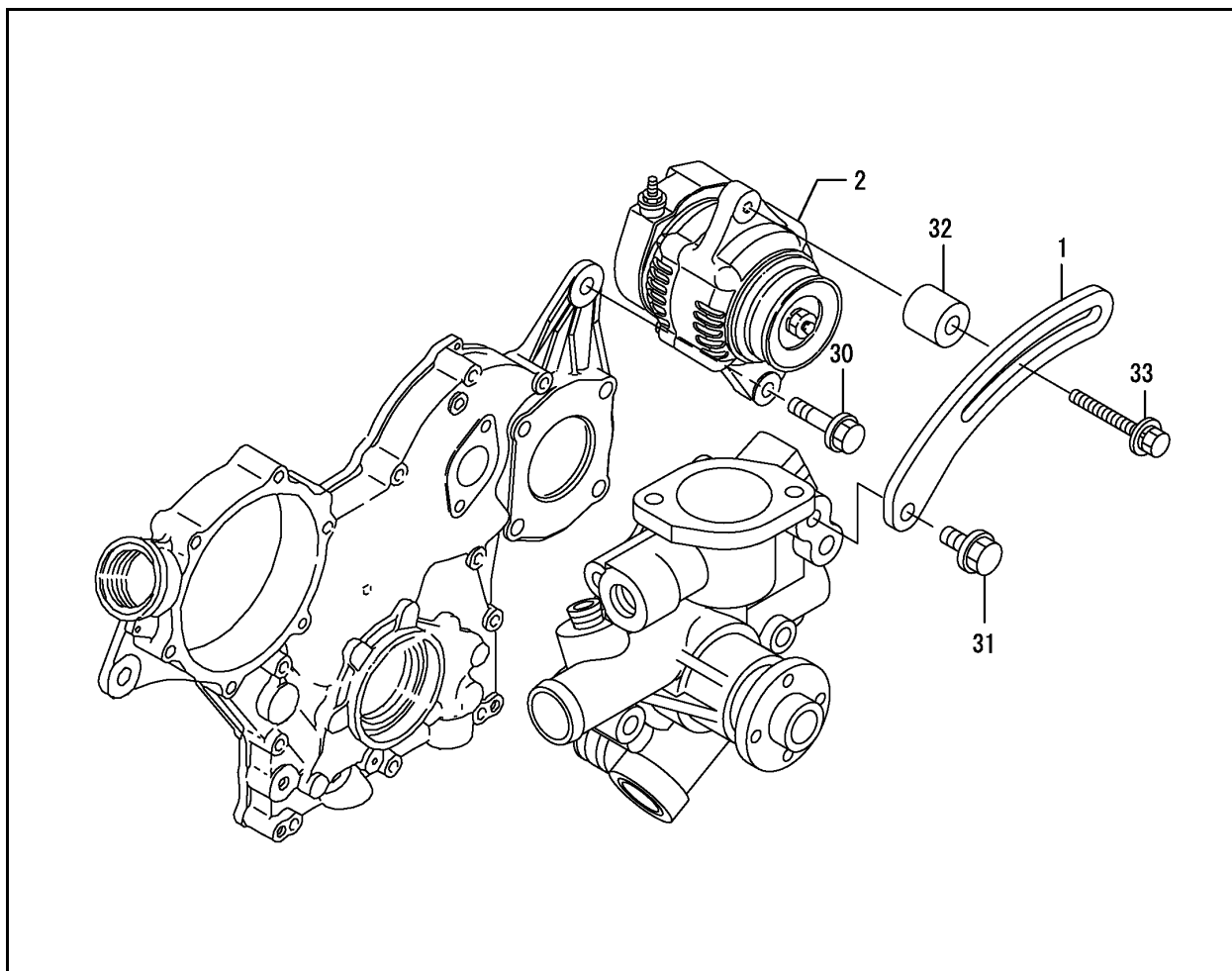
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	425-34825	TUBE EXTENSION	1	10	425-35705	BOLT	1
2	203157	TUBE	1	11	425-35673	BOLT	1
3	197870	DIPSTICK	1	12	425-34684	OIL PRESSURE SWITCH	1
4	425-34827	O-RING 1A P-10A	1	13	203162	HYDRAULIC PIPE ASSY	1
5	138134	BOLT M10 X 20 PLATED	1	14	186468	JOINT BOLT ASSY	2
6	270966	STUD	1	15	425-34750	WASHER	2
7	425-35259	FILTER/LUB OIL	1	16	186600	JOINT BOLT 3	2
8	203160	O-RING P15.0	1	17	425-34750	WASHER	2
9	203161	OIL PUMP SUCTION PIPE	1				

AL 140 - ENGINE STARTER



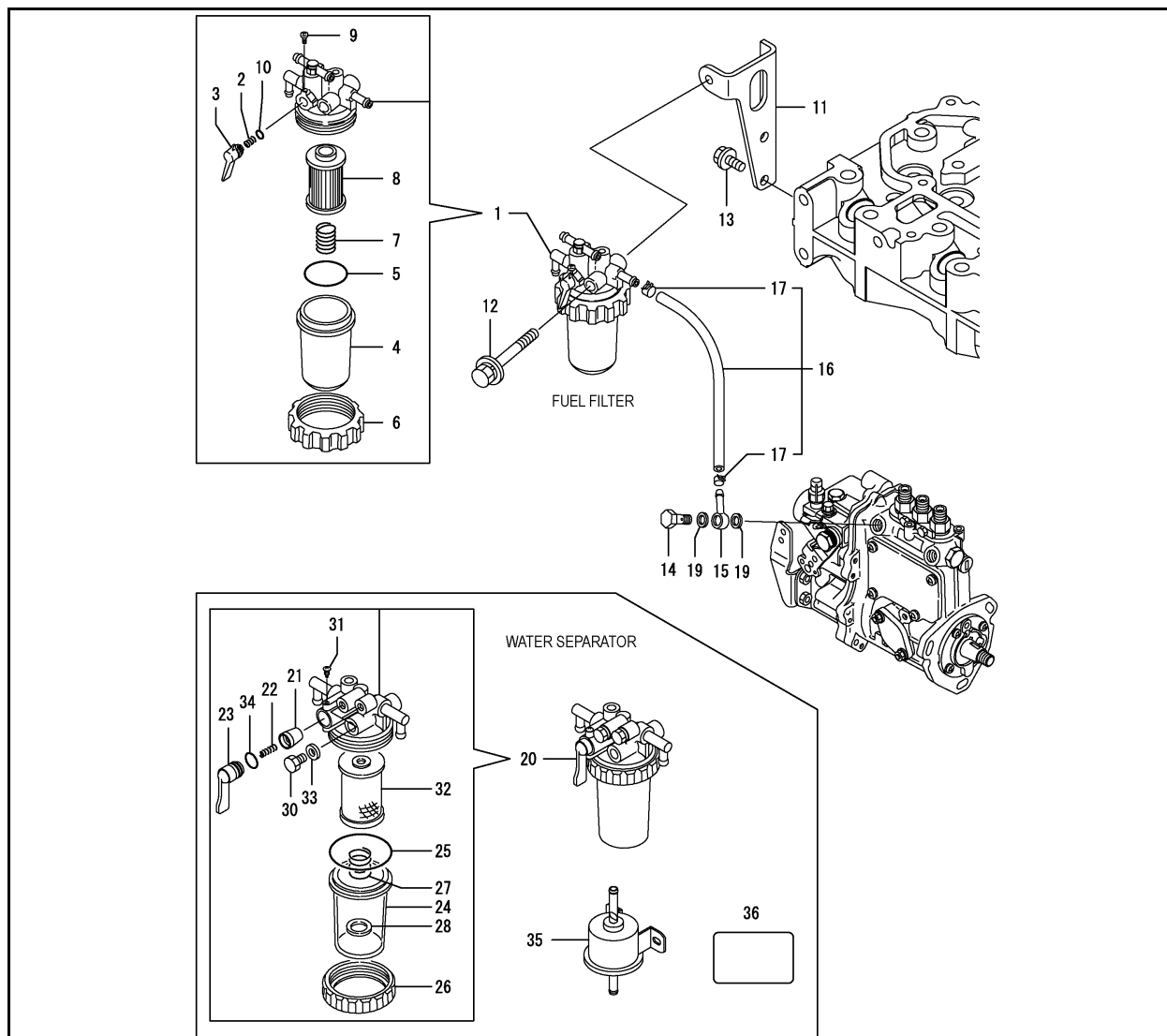
Ref. No.	Part No.	Description	Qty.
1	425-35772	BOLT M10 X 25 PLATED	2
2	203230	STARTER RA1.4	1
7	425-35440	ROLLER	5
29	425-35385	PINION, STARTER	1

AL 140 - ENGINE ALTERNATOR



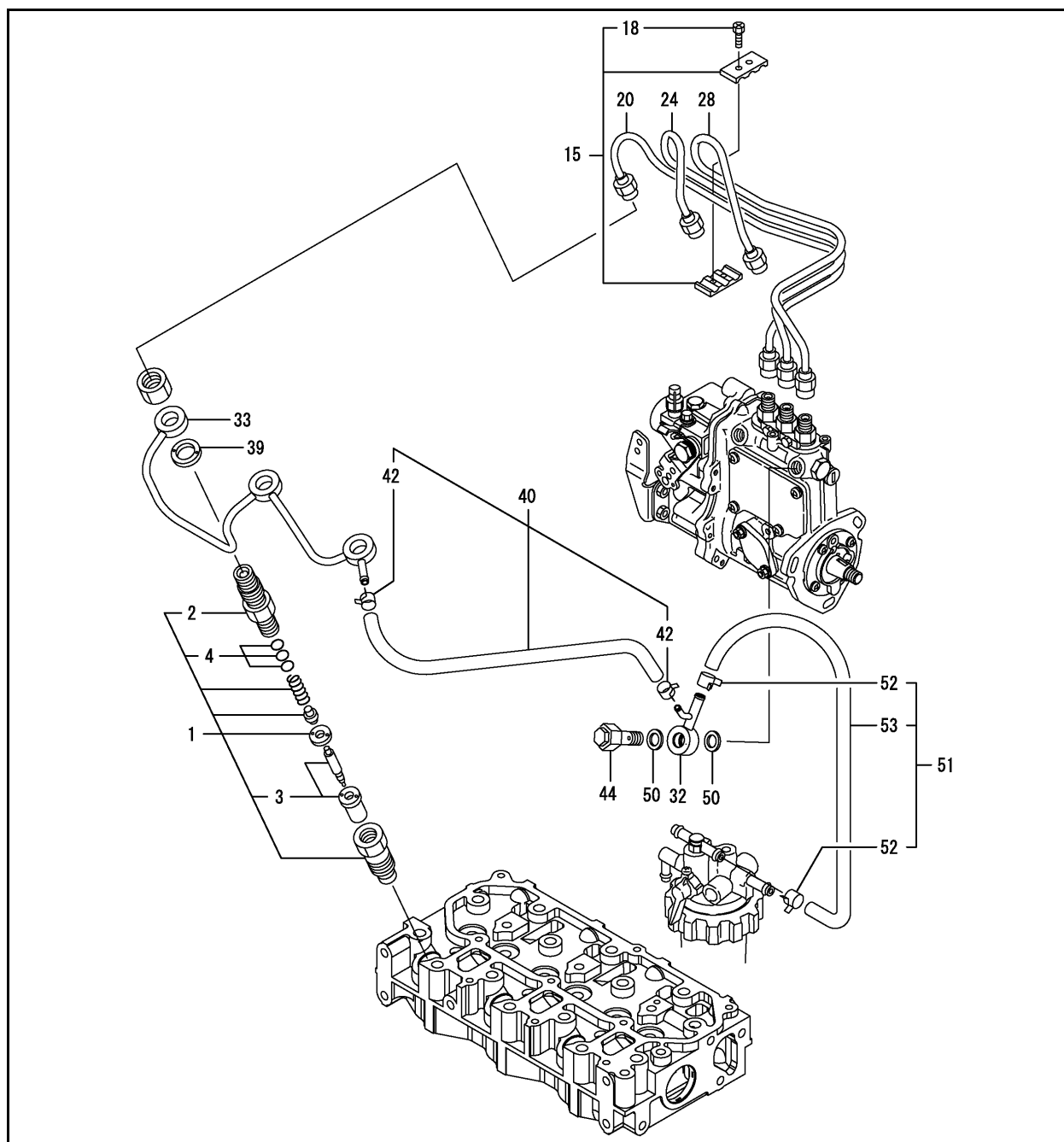
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203231	ALTERNATOR BRACKET	1	32	203232	SPACER	1
2	188636	ALTERNATOR	1	33	192273	ADJUSTER BOLT	1
30	138136	BOLT M10 X 45 PLATED	1				
31	425-34746	BOLT M8 X 20 PLATED	1				

AL 140 - ENGINE FUEL LINE



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203218	FILTER/FUEL ASSY	1	19	425-35959	SEAL WASHER 12S	2
2	425-34921	SPRING	1	20	185466	SEPARATOR/WATER	1
3	203219	LEVER	1	21	425-34920	VALVE, TAPER	1
4	203220	CUP/STRAINER	1	22	425-34921	SPRING	1
5	425-35323	O-RING/BOWL	1	23	425-35321	HANDLE/FUEL SHUTOFF	1
6	425-35324	RETAINER/BOWL	1	24	203225	CUP	1
7	425-35325	SPRING/FUEL ELEMENT	1	25	425-35323	O-RING/BOWL	1
8	203221	ELEMENT	1	26	425-35324	RETAINER/BOWL	1
9	425-34926	SCREW	1	27	203226	SPRING	1
10	425-34827	O-RING 1A P-10A	1	28	203227	FLOAT	1
11	203222	BRACKET	1	30	138075	PLUG	2
12	425-35329	BOLT W/WASHER 8 X 70	1	31	425-34926	SCREW	1
13	425-34733	BOLT M8 X 16 PLATED	2	32	185693	SCREEN/SEPARATOR	1
14	203223	BOLT JOINT	1	33	425-35328	GASKET 6	2
15	425-34915	JOINT 12, PIPE	1	34	425-34827	O-RING 1A P-10A	1
16	203224	FUEL PIPE ASSY	1	35	186308	PUMP ASSY FUEL FEED	1
17	425-34916	CLAMP 12	2	36	197868	LABEL/FUEL OIL NOTI	1

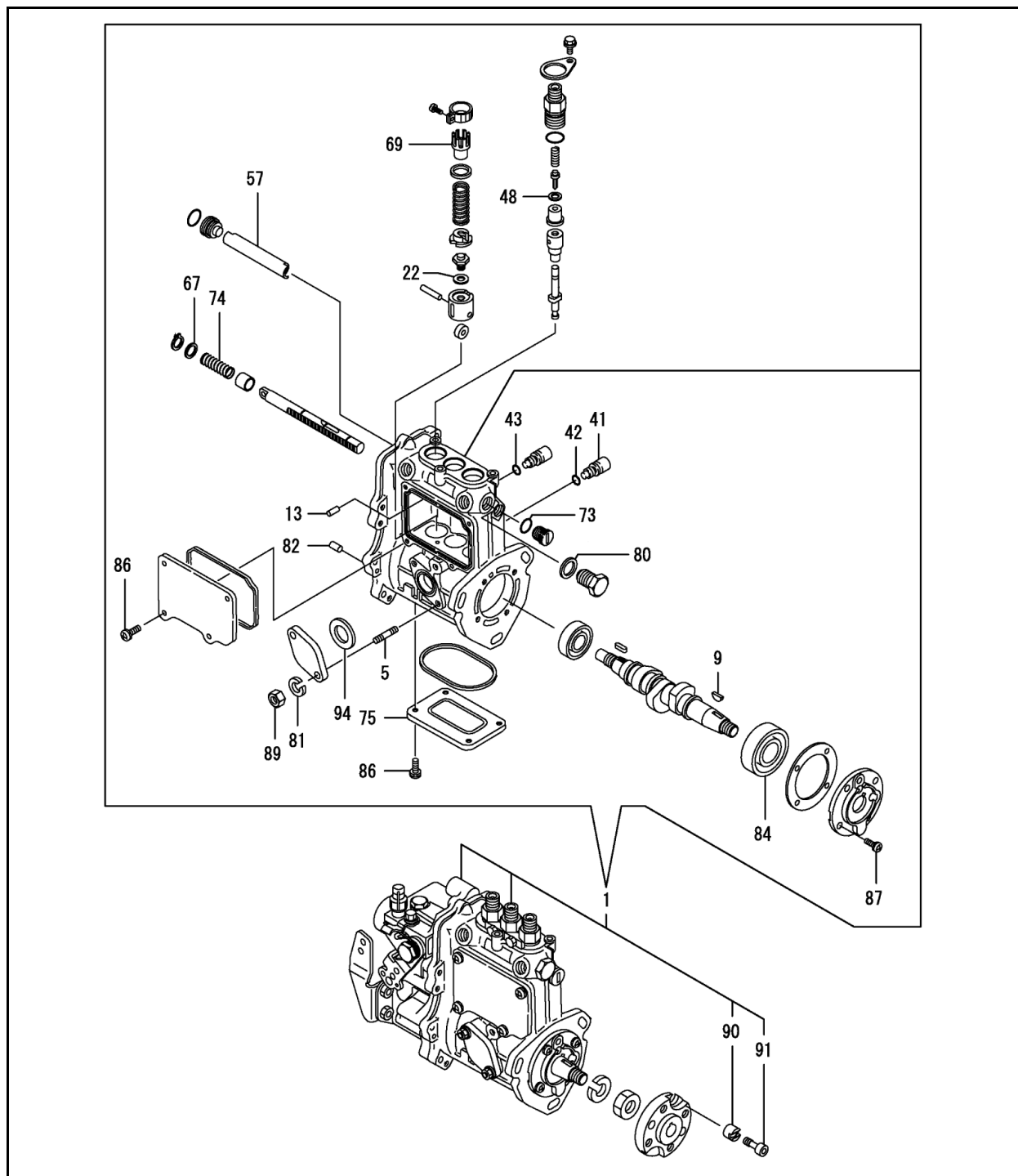
AL 140 - ENGINE FUEL INJECTION VALVE



Ref. No.	Part No.	Description	Qty.
1	203206	INJECTOR ASSY	3
2	50280216	NOZZLE HOLDER	3
3	50280217	NOZZLE ASSEMBLY	3
4	50280218	SHIM PACK	3
15	425-35452	CLAMP	1
18	186473	BOLT M4X14 HEX SOCKET	2
20	203210	INJECTION LINE (BACK)	1
24	203211	INJECTION LINE (MIDDLE)	1
28	203212	INJECTION LINE (FRONT)	1
32	425-34933	JOINT	1
33	203213	RETURN PIPE ASSY	1

Ref. No.	Part No.	Description	Qty.
39	203214	RETURN GASKET	3
40	203215	FUEL RETURN PIPE	1
42	425-34928	CLAMP	2
44	203216	NON-RETURN VALVE	1
50	425-35959	SEAL WASHER 12S	2
51	203217	FUEL PIPE ASSY	1
52	425-34916	CLAMP 12	2
53	188440	FUEL PIPE	1

AL 140 - ENGINE FUEL INJECTION PUMP

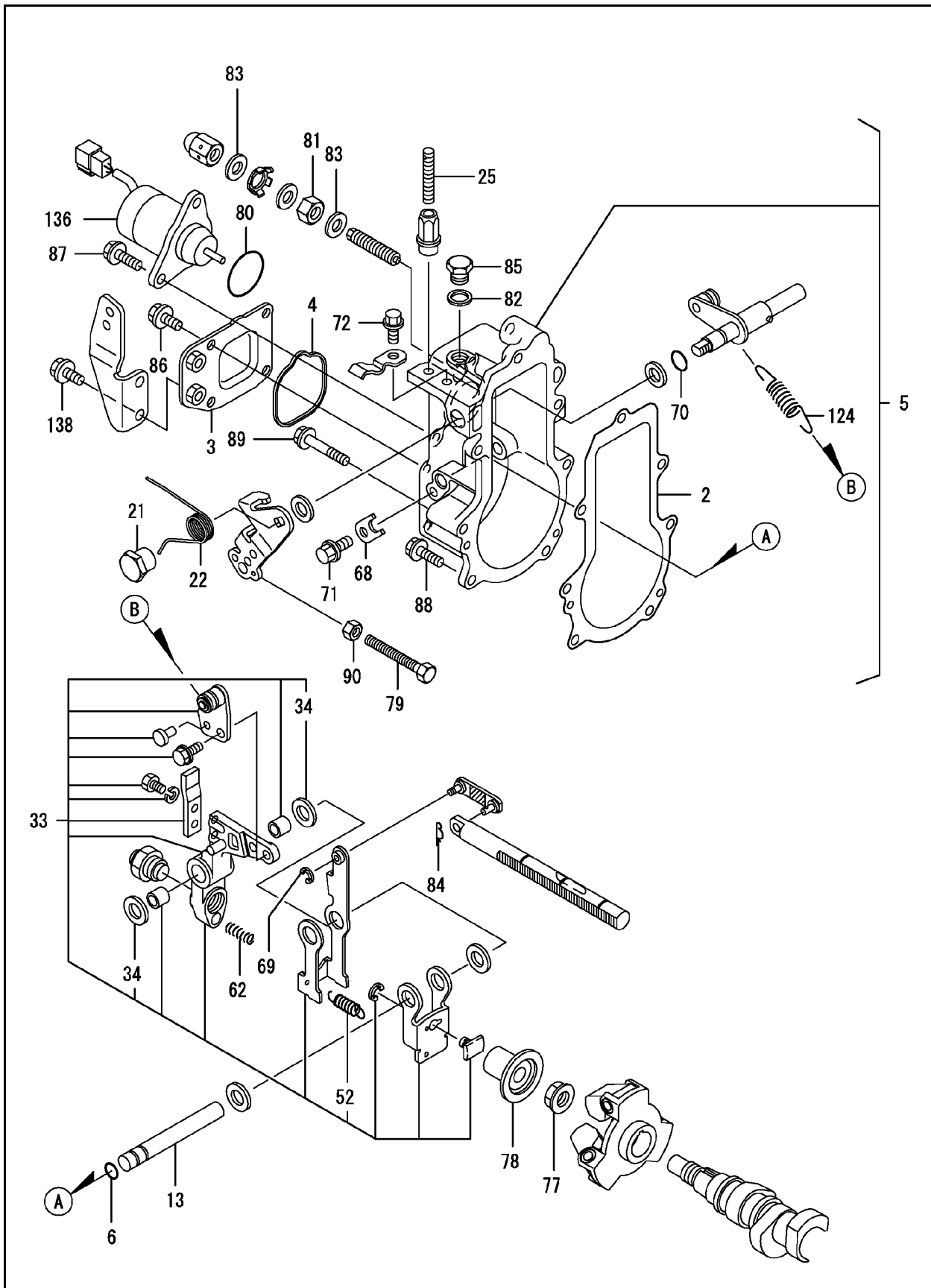


Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	203173	FUEL INJECTION PUMP ASSY	1	42	425-34678	O-RING	3
5	425-35465	STUD	2	43	425-34678	O-RING	1
9	425-34859	KEY	1	48	425-34710	GASKET	3
13	425-34860	PIN, BARREL LOCKING	3	57	425-35459	DEFLECTOR, INJECTION PUMP	1
22	425-34884	SHIM COMPLETE	1	67	425-34878	SPACER, AUXILIARY SPRING	1
41	197772	STOPPER	3	69	425-34879	CONTROL PINION (B)	3

AL 140 - ENGINE FUEL INJECTION PUMP

Ref.	No.	Part No.	Description	Qty.
73	425-34680	O-RING		1
74	425-34883	SPRING, RACK		1
75	425-35461	COVER		1
80	425-35949	SEAL WASHER 16S		1
81	425-34891	SPRING WASHER 6		2
82	425-34892	SPRING PIN 5 X 10		2
84	425-34893	BALL BEARING		1
86	425-36271	SCREW M 5X 12		8
87	425-34898	SCREW M6 X 16		4
89	138143	NUT YANMAR#267		2
90	203174	COLLAR		1
91	203175	BOLT		1
94	425-34714	SEAL		1

AL 140 - ENGINE GOVERNOR



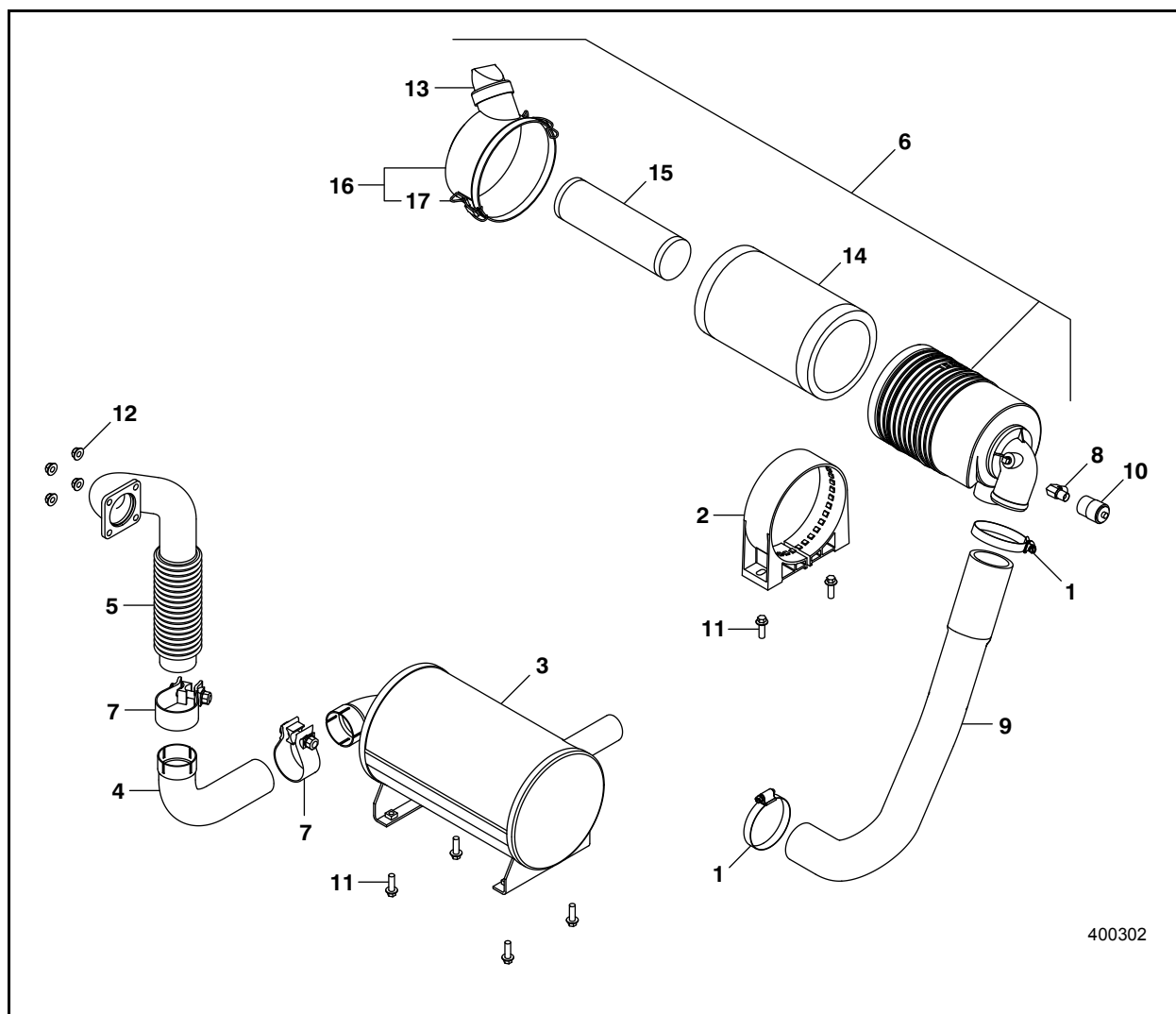
AL 140 - ENGINE GOVERNOR

Ref. No.	Part No.	Description	Qty.
2	203176	CASE GASKET	1
3	203887	GOVERNOR COVER	1
4	203178	COVER GASKET	1
5	203179	GOVERNOR ASSY	1
6	425-34678	O-RING	1
13	425-36001	SHAFT/GOVERNOR LEVER	1
21	192283	NUT	1
22	203186	SPRING	1
25	425-36274	BOLT	1
33	203191	GOVERNOR LEVER ASSY	1
34	425-35347	SHIM SET	2
52	203192	SPRING	1
62	50286833	SPRING FUEL CONTROL	1
68	425-35352	RETAINER, SHAFT	1
69	197784	CIRCLIP E-3	1
70	425-35360	O-RING 1A S-7.0	1
71	425-35263	BOLT M6 X 10 PLATED	1
72	425-35263	BOLT M6 X 10 PLATED	1
77	197488	NUT/GOVERNOR WEIGHT	1

Ref. No.	Part No.	Description	Qty.
78	425-34949	SLEEVE	1
79	425-34981	BOLT, IDLE LIMIT	1
80	270973	O-RING	1
81	203198	NUT	1
82	425-35958	SEAL WASHER 10S	1
83	425-35959	SEAL WASHER 12S	2
84	425-35960	SNAP PIN 4	1
85	186603	PLUG 10	1
86	425-35263	BOLT M6 X 10 PLATED	4
87	425-35962	BOLT M6 X 14	2
88	188732	BOLT M6 X 20 PLATED	4
89	425-35176	BOLT M6 X 45 PLATED	3
90	425-34984	LOCK NUT M6 PLATED	1
124	203200	GOVERNOR SPRING	1
136	425-35925	SOLENOID STOP	1
138	425-35263	BOLT M6 X 10 PLATED	2

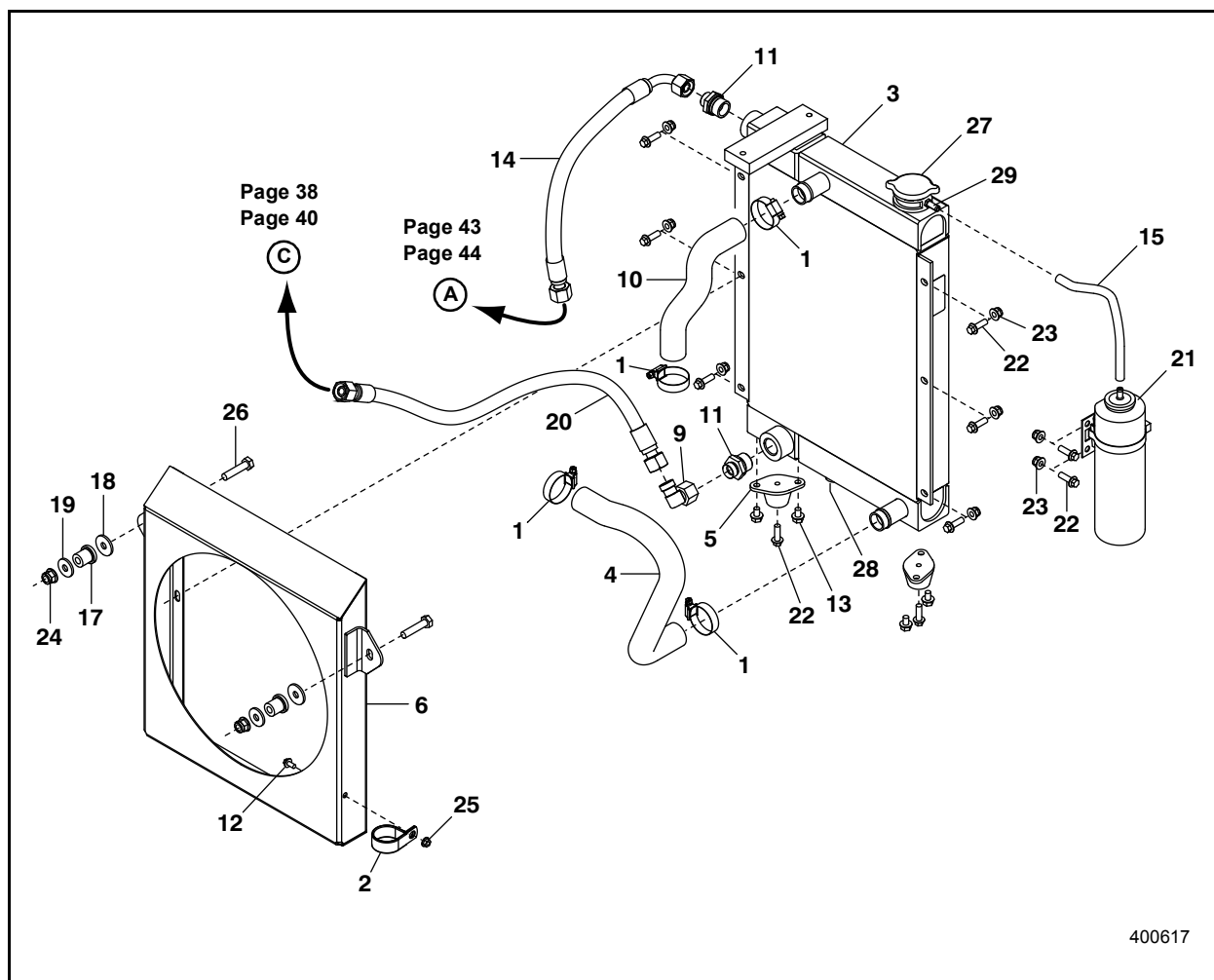
AL 140 - ENGINE

INTAKE AND EXHAUST COMPONENTS



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	087850	CLAMP/HOSE #40	2	11	651695	CS FL M8-1.25X25 C8.8 ZY DIN1662	6
2	175781	BRKT/PLASTIC 5" MOUNT	1	12	651711	LN FL CTR M8-1.25 C8 ZY DIN6927	4
3	176053	MUFFLER/SPARK ARRESTING	1	13	176136	VACUATOR VALVE	1
4	176135	PIPE/EXHAUST ELBOW	1	14	420-36075	ELEMENT, AIR CLEANER	1
5	176213	WELDMENT/EXHAUST	1	15	420-36076	ELEMENT, SECONDARY/AIR	1
6	176718	AIR CLEANER/5	"1	16	420-36079	COVER ASSY	1
7	201175	CLAMP/MUFFLER 2.00 TORCA	2	17	L99933	LATCH	3
8	271043	FITTING/90 DEG 1/8-1/8	1				
9	271052	HOSE/AIR CLEANER	1				
10	420-18160	INDICATOR	1				

AL 140 - ENGINE RADIATOR



Ref. No.	Part No.	Description	Qty.
1	055335	CLAMP/HOSE #20	4
2	075196	CLAMP/HOSE 1.50 X .41 HOLE	1
3	176131	ASSY/RADIATOR-OIL COOLER (includes Ref. Nos. 27, 28, 29)	1
4	176132	HOSE/AL140 RAD LOWER	1
5	176278	MOUNT/RADIATOR	2
6	176288	WDMT/FAN SHROUD	1
9	176366	90 FCS15-MC15-L**	1
10	176368	HOSE/RADIATOR UPPER	1
11	176531	ST MC15-MBSPP12-L**	2
12	176651	CS FL M6-1.00X12 C8.8ZY SP DIN1662	1
13	176652	CS FLH M8-1.25X12 C8.8ZY SP DIN1665	4
14	176759	HOSE/MP 8 X 406MM*	1
15	201179	HOSE/OVERFLOW	1
17	201481	MOUNT/CENTER BONDED	2

Ref. No.	Part No.	Description	Qty.
18	270104	WASHER/HEAD	2
19	270105	WASHER/TAIL	2
20	273381	HOSE/MP 8 X 711MM*	1
21	425-36233	WATER BOTTLE (see Page 80 for additional components)	1
22	651695	CS FL M8-1.25X25 C8.8 ZY DIN1662	10
23	651706	LN INST FL M8-1.25 C8 ZY DIN6926	8
24	651707	LN INST FL M10-1.50 C8 ZY DIN6926	2
25	651722	HN FL M6-1.00 C8ZY DIN6923	1
26	651400	CS M10-1.5X40 C10.9 ZY DIN931	2
27	139476	CAP/RADIATOR	1
28	137907	PLUG HH MP04 (radiator drain)	1
29	230-32207	ST HB04-MP02 BRASS (overflow fitting)	1

* See Page 93 for hose/o-ring information.

** See Page 92 for fitting/o-ring/seal information.

FITTINGS WITH O-RING/SEAL RING COMPATIBILITY

Fitting Part Number	Compatible Seal Ring Part Number	Compatible O-Ring Part Number
068938	--	055897
131522		048953
131529		055896
176353	270564	--
176354	270565	--
176355	270564	--
176356	270565	--
176357	270569	--
176358	270564	--
176359	270565	--
176362	--	270545
176364	--	270538
176365	--	270539
176366	--	270540
176367	--	270538
176370	270565	--
176371	--	270541
176375	270567	--
176376	270566	--
176508	--	270537
176509	270567	--
176510	270565	--
176511	270563	--
176512	270566	--
176513	270564	--
176523	--	270537
176524	--	270540
176525	--	270541
176526	--	270539
176527	--	270540
176528	270562	--
176529	270568	--
176530	270563	--
176531	270566	--
176532	270566	--
176541	--	270541
176542	--	270541
176778	--	270540

Fitting Part Number	Compatible Seal Ring Part Number	Compatible O-Ring Part Number
176779	--	270538
176800	270567	--
176846		048953
176883	270563	--
176884	270565	--
176885	270567	--
201061	270562	--
201236	--	270542
201251	--	270544
201279	--	270542
270069	--	270542
270075	--	270544
270208	--	270537 271097
270213	270563	--
270227	--	270539
270236	--	270538 271097
270414		058674
270415	--	048953
270416	--	055897
270417	--	055898
271636	270565	--
271754	--	274852
272272	--	048953
272380	--	048953
272669		048953
272694		270545
272768	270563	--
272861		270566
272867	--	048953
273270	--	055898
273697	--	270542
273812	270569	--
273956	--	270542
274401	--	055898
274405	--	271309
274853		274852
275238		270566

AL 140 - HOSE / O-RING COMPATIBILITY

Fitting Part Number	Compatible Seal Ring Part Number	Compatible O-Ring Part Number
50300010		058674
50300013		058674
50300025		058674

Fitting Part Number	Compatible Seal Ring Part Number	Compatible O-Ring Part Number
50300068	270565	
50302142	055896	

HOSE / O-RING COMPATIBILITY

Hose Part Number	Compatible O-Ring Part Number	Hose Part Number	Compatible O-Ring Part Number	Hose Part Number	Compatible O-Ring Part Number
176740	270538	201085	270539	270371	270538 (2)
176741	270538	201086	270539	270374	270538 (2)
176742	270538	201087	270539	270375	270538 (2)
176743	270540	201088	270539	270391	271361
176744	270540	201089	270540	270392	271361
176745	270538	201090	270540	271094	270542
176746	270538	201091	270539	271195	270538
176749	270538	201092	201092	271196	270540
176750	270538	201094	270542	271328	270540
176751	270540	201095	270538	271329	270539
176753	270540	201096	270542	271332	270539
176754	270538	201118	270542	271333	270539
176755	270538	201119	270540	271334	270539
176757	270540	201120	270542	271342	270538 (2)
176758	270540	201122	270541	271343	270541
176759	270540	201123	270538	271344	270542
176760	270542	201124	270538	271391	270538
176761	270538	201125	270538	271524	270541
176762	270540	201126	270538	271526	270541
176763	270538	201128	201128	271464	271309 (6L) 270537 (8L)
176764	270538	201129	270537	271705	270538
176765	270542	201130	270537	271708	270540
176766	270541	201131	271309 (6L) 270537 (8L)	271758	274854
176767	270541	270283	270542	271882	270538
176768	270541	270290	270541	271885	270538
176847	270541	270291	270539	271994	270538
176848	270541	270292	270539	271995	270538
176849	270541	270294	270544	271999	270542
201081	270538	270295	270542	272000	270542
201082	270540	270300	270537	272025	270539
201083	270540	270305	270540	272026	270539
201084	270539				

AL 140 - ABBREVIATIONS AND DESCRIPTIONS FOR FITTINGS

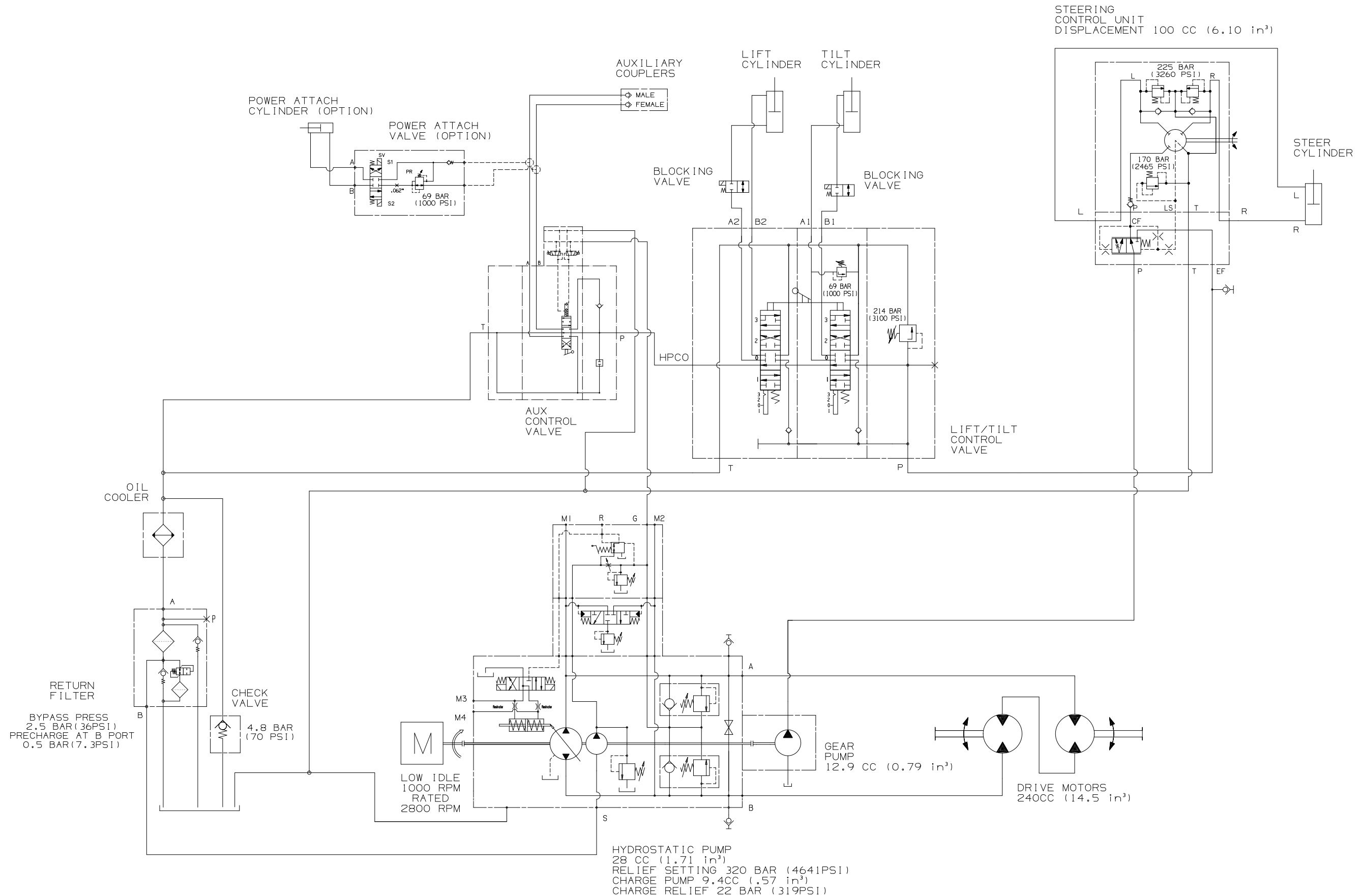
Hose Part Number	Compatible O-Ring Part Number	Hose Part Number	Compatible O-Ring Part Number	Hose Part Number	Compatible O-Ring Part Number
272027	270539	273718	270538	274351	270538
272207	270538 (2)	273775	270539	274367	270541
272217	270538 (2)	273777	270539	274444	270538 (2)
272473	270538 (2)	273807	270539	274529	270538 (2)
272474	270538 (2)	273814	270540	274740	270539 (2)
272475	270538 (2)	273823	270539	274746	270539 (2)
273196	270538 (2)	273852	270538 (2)	274885	270538 (2)
273197	270538	273875	270538	274891	270542
273198	270545 (2)	273876	270538	274892	270538 (2)
273199	270545 (2)	273880	270538	274901	270544 (2)
273200	270545 (2)	273882	270540	274988	270542
273334	270542	273963	270542	275259	270542 (2)
273343	270542 (2)	274124	270540 (2)	275368	270538 (2)
273380	270538	274128	270539	275379	270540 (2)
273381	270540 (2)	274206	270540	275382	270541 (2)
273402	271309 (6L) 270538 (10L)	274207	270540	275383	270541 (2)
273487	270538	274208	270540	275384	270542 (2)
273492	270538 (2)	274261	270540	275404	270542 (2)
273510	270539	274263	270540 (2)	275834	270539
273513	270539	274276	270538 (2)	275835	270539
273515	270539	274277	270538 (2)	275836	270539
273581	270540	274310	270542	275889	270540 (2)
273612	270542	274329	270537	275973	270538 (2)
273698	270542	274337	270545 (20S) 271361 (62-12)	50300419	270540 (2)
273699	271309 (6L) 270538 (10L)	274338	270545 (20S) 271361 (62-12)	50300420	270540 (2)
				50300545	270542

ABBREVIATIONS AND DESCRIPTIONS FOR FITTINGS

Abbrev.	Description
A, AJ	Adjustable
BJ	Banjo
BK	Bulkhead
BR	Branch
FBSPP	Female British Std. Parallel Pipe End
F24C	Female 24° Cone Tube End
HPM	Hollow Hex Plug Metric
M24C	Male 24° Cone Tube End
MBSPP	Male British Std. Parallel Pipe End
MMPT	Male Metric Port Thread End

Abbrev.	Description
MORB	Male SAE O-ring Boss End
90M	90° Metric
RD	Reducer
RN	Run
STM	Straight Metric
SV	Swivel
TEM	Tee Metric
WSM	Weld Spud Metric

AL 140 - SCHEMATICS
HYDRAULIC SCHEMATIC (SN 11393 AND UP)



276056A