

SKYTRAK®

Illustrated Parts Manual

Models
4270
4290

8990438

May 2001

ANSI



JLG®

TABLE OF CONTENTS

SECTION 1 - DRIVE TRAIN	7
FIGURE 1-1. DRIVE TRAIN ASSEMBLY 4270	8
FIGURE 1-2. DRIVE TRAIN ASSEMBLY 4290	10
FIGURE 1-3. FRONT AXLE - INPUT	12
FIGURE 1-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL	16
FIGURE 1-5. FRONT AXLE - AXLE CASING	18
FIGURE 1-6. FRONT AXLE - M-DISC BRAKE	20
FIGURE 1-7. FRONT AXLE - BRAKE	24
FIGURE 1-8. FRONT AXLE - JOINT HOUSING	26
FIGURE 1-9. FRONT AXLE - PLANETARY DRIVE	28
FIGURE 1-10. STEERING CYLINDER.....	30
FIGURE 1-11. REAR AXLE - INPUT	32
FIGURE 1-12. REAR AXLE - DIFFERENTIAL	36
FIGURE 1-13. REAR AXLE - AXLE CASING	38
FIGURE 1-14. REAR AXLE - M-DISC BRAKE	40
FIGURE 1-15. REAR AXLE - BRAKE.....	44
FIGURE 1-16. REAR AXLE - JOINT HOUSING	46
FIGURE 1-17. REAR AXLE - PLANETARY DRIVE.....	48
FIGURE 1-18. ENGINE CONNECTION AND INPUT SHAFTS.....	50
FIGURE 1-19. GEARBOX HOUSING.....	52
FIGURE 1-20. COUPLING GROUP 1	54
FIGURE 1-21. COUPLING GROUP 2	56
FIGURE 1-22. COUPLING GROUP 3	58
FIGURE 1-23. COUPLING GROUP 4	60
FIGURE 1-24. REVERSING GEAR GROUP 1.....	62
FIGURE 1-25. REVERSING GEAR GROUP 2.....	64
FIGURE 1-26. OUTPUT	66
FIGURE 1-27. CONTROL UNIT	68
FIGURE 1-28. VALVE HOUSING ASSEMBLY	70
FIGURE 1-29. VALVE BLOCK ASSEMBLY	74
FIGURE 1-30. OIL PUMP AND FILTER	76
FIGURE 1-31. TRANSMISSION OIL COOLER ASSEMBLY.....	78
FIGURE 1-32. TRANSFER BOX	80
FIGURE 1-33. DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX	82
FIGURE 1-34. DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE	84
FIGURE 1-35. DRIVE SHAFT - TRANSFER BOX TO REAR AXLE	86
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM.....	89
FIGURE 2-1. ENGINE MOUNTING.....	90
FIGURE 2-2. RADIATOR AND OIL COOLER MOUNTING.....	92
FIGURE 2-3. EXHAUST SYSTEM	94
FIGURE 2-4. AIR CLEANER ASSEMBLY.....	96
FIGURE 2-5. FUEL SYSTEM	98
FIGURE 2-6. THROTTLE GROUP ASSEMBLY.....	100

TABLE OF CONTENTS

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT.....	103
FIGURE 3-1. MAIN FRAME ASSEMBLY	104
FIGURE 3-2. ENGINE HOOD AND COVERS	106
FIGURE 3-3. OPERATOR'S PROTECTIVE STRUCTURE - ROPS/FOPS.....	110
FIGURE 3-4. STEERING COLUMN AND SHIFTER ASSEMBLY	112
FIGURE 3-5. OPERATOR'S SEAT AND SEAT BELT	114
FIGURE 3-6. SUSPENSION SEAT	116
FIGURE 3-7. MIRRORS.....	118
FIGURE 3-8. OUTER PANELS - OPEN CAB	120
FIGURE 3-9. INNER CONSOLE AND DASH PANEL - OPEN CAB	122
FIGURE 3-10. OUTER PANELS - ENCLOSED CAB.....	124
FIGURE 3-11. INNER CONSOLE AND DASH PANEL - ENCLOSED CAB.....	126
FIGURE 3-12. GLASS - ENCLOSED CAB	128
FIGURE 3-13. DOOR ASSEMBLY.....	130
FIGURE 3-14. REAR WINDOW AND WIPER ASSEMBLIES	132
FIGURE 3-15. FRONT WINDSHIELD WIPER ASSEMBLY	134
FIGURE 3-16. SKYLIGHT WIPER ASSEMBLY	136
FIGURE 3-17. HEATER ASSEMBLY - ENCLOSED CAB.....	138
FIGURE 3-18. HEATER HOSES AND VENTS - ENCLOSED CAB.....	140
SECTION 4 - BOOM ASSEMBLY	143
FIGURE 4-1. OUTER BOOM ASSEMBLY (HIGH PIVOT).....	144
FIGURE 4-2. OUTER BOOM ASSEMBLY (LOW PIVOT).....	146
FIGURE 4-3. INTERMEDIATE BOOM ASSEMBLY.....	148
FIGURE 4-4. INNER BOOM ASSEMBLY (HIGH PIVOT)	150
FIGURE 4-5. INNER BOOM ASSEMBLY (LOW PIVOT)	152
FIGURE 4-6. BOOM EXTEND CHAINS.....	154
FIGURE 4-7. BOOM RETRACT CHAINS	156
FIGURE 4-8. QUICK ATTACH ASSEMBLY.....	158
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS	161
FIGURE 5-1. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (LOW PIVOT).....	162
FIGURE 5-2. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (HIGH PIVOT).....	164
FIGURE 5-3. ATTACHMENT TILT AND SLAVE CIRCUIT (LOW PIVOT)	166
FIGURE 5-4. ATTACHMENT TILT AND SLAVE CIRCUIT (HIGH PIVOT)	168
FIGURE 5-5. HOIST CYLINDER 4270.....	170
FIGURE 5-6. HOIST CYLINDER 4290.....	172
FIGURE 5-7. EXTEND CYLINDER	174
FIGURE 5-8. SLAVE CYLINDER	176
FIGURE 5-9. ATTACHMENT TILT CYLINDER.....	178
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS.....	181
FIGURE 6-1. HYDRAULIC RESERVOIR ASSEMBLY.....	182
FIGURE 6-2. UNLOADER VALVE HYDRAULIC CIRCUIT	184
FIGURE 6-3. UNLOADER VALVE ASSEMBLY	186
FIGURE 6-4. GEAR PUMP ASSEMBLY 4270.....	188

TABLE OF CONTENTS

FIGURE 6-5. GEAR PUMP ASSEMBLY 4290	190
FIGURE 6-6. VALVES/MANIFOLD AND BRACKETS.....	192
FIGURE 6-7. MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY).....	194
FIGURE 6-8. MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY)	198
FIGURE 6-9. SECTION ASSEMBLY - BOOM EXTEND/RETRACT	200
FIGURE 6-10. SECTION ASSEMBLY - BOOM LIFT/LOWER	202
FIGURE 6-11. SECTION ASSEMBLY - FRAME TILT.....	204
FIGURE 6-12. SECTION ASSEMBLY - ATTACHMENT TILT	206
FIGURE 6-13. SECTION ASSEMBLY AUXILIARY	208
FIGURE 6-14. PILOT SELECT MANIFOLD ASSEMBLY	210
FIGURE 6-15. SECONDARY FUNCTION MANIFOLD	212
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS.....	215
FIGURE 7-1. 3 MODE STEERING HYDRAULIC CIRCUIT	216
FIGURE 7-2. 3 MODE STEERING DIRECTIONAL CONTROL VALVE	218
FIGURE 7-3. 4 MODE STEERING HYDRAULIC CIRCUIT	220
FIGURE 7-4. 4 MODE STEERING DIRECTIONAL CONTROL VALVE	222
FIGURE 7-5. SERVICE AND PARKING BRAKE HYDRAULIC CIRCUIT	224
FIGURE 7-6. SERVICE BRAKE PEDAL MOUNTING	226
SECTION 8 - FRAME CONTROL HYDRAULICS	229
FIGURE 8-1. JOYSTICK HYDRAULIC CIRCUIT	230
FIGURE 8-2. FRAME TILT AND STABIL-TRAK CIRCUIT	232
FIGURE 8-3. FRAME TILT CYLINDER	234
FIGURE 8-4. STABIL-TRAK CYLINDER.....	236
FIGURE 8-5. STABIL-TRAK CYLINDER VALVES.....	238
SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)	241
FIGURE 9-1. AUXILIARY HYDRAULIC CIRCUIT LOW PIVOT (OPTIONAL).....	242
FIGURE 9-2. AUXILIARY HYDRAULIC CIRCUIT HIGH PIVOT (OPTIONAL)	244
FIGURE 9-3. AUX HYDRAULICS - VALVES, MANIFOLD AND TUBING	246
FIGURE 9-4. AUX DETENT HYDRAULICS - VALVES, MANIFOLD AND TUBING.....	248
FIGURE 9-5. AUXILIARY DETENT SELECTOR VALVE	250
SECTION 10 - ELECTRICAL	253
FIGURE 10-1. OPERATORS CAB WIRING HARNESS.....	254
FIGURE 10-2. ENGINE WIRING HARNESS.....	256
FIGURE 10-3. SWITCHES AND FUSES.....	258
FIGURE 10-4. ROADLIGHTS ASSEMBY	260
FIGURE 10-5. ROADLIGHTS - SWITCHS AND FUSES.....	264
FIGURE 10-6. WORKLIGHTS ASSEMBLY.....	266
SECTION 11 - DECALS AND COMMON SUPPLIES	269
FIGURE 11-1. DECALS.....	270
FIGURE 11-2. PAINT AND COMMON SUPPLIES.....	272
SECTION 12 - ATTACHMENTS	275

TABLE OF CONTENTS

FIGURE 12-1. 48IN, 60IN AND 72IN STANDARD CARRIAGE AND FORKS276

FIGURE 12-2. SWING CARRIAGE ASSEMBLY278

FIGURE 12-3. SWING CARRIAGE CYLINDER.....280

FIGURE 12-4. SIDE TILT CARRIAGE ASSEMBLY282

FIGURE 12-5. SIDE TILT CARRIAGE CYLINDER284

FIGURE 12-6. 12 FT TRUSS BOOM286

FIGURE 12-7. SHEET MATERIAL HANDLER ASSEMBLY288

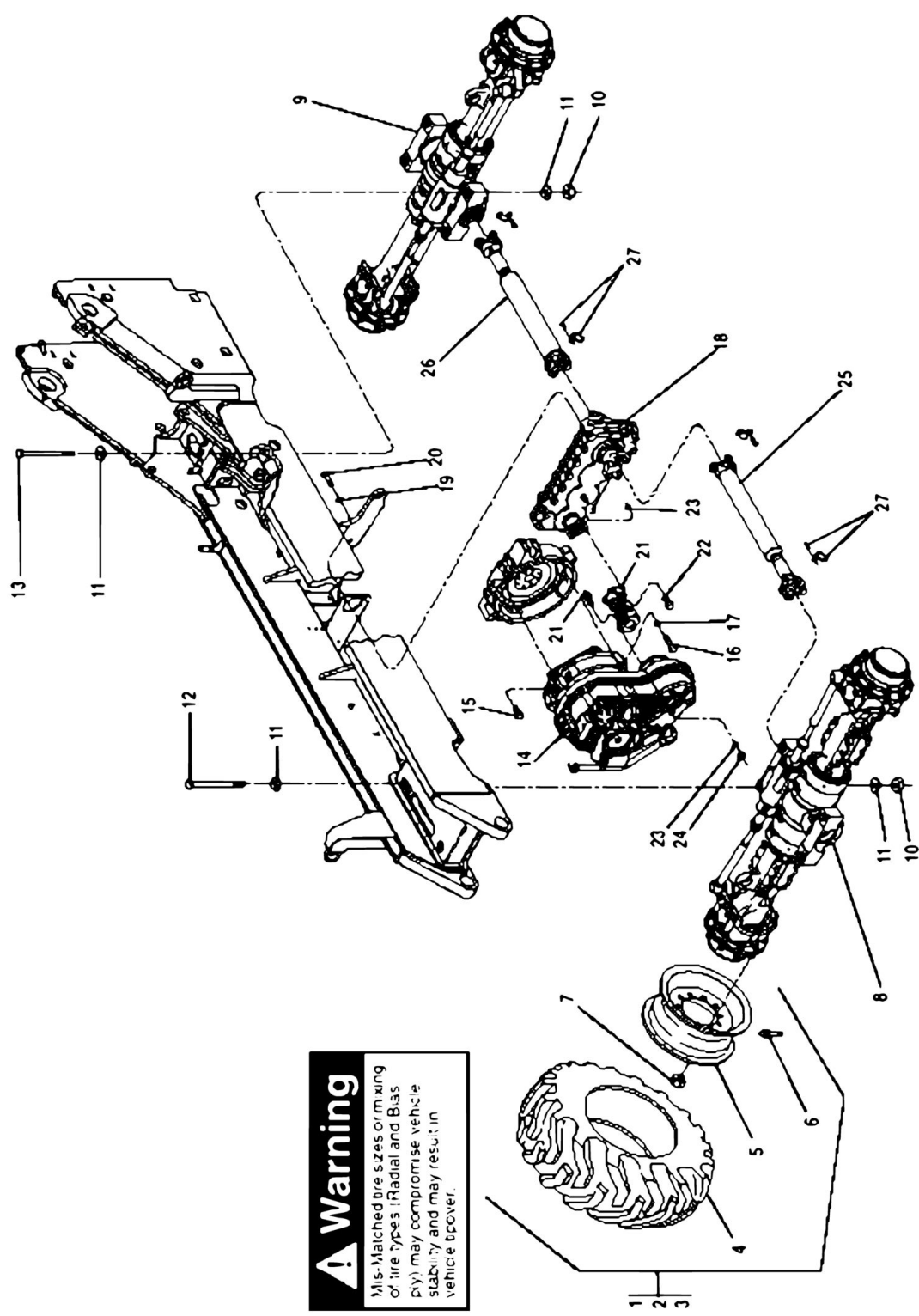
FIGURE 12-8. UTILITY BUCKET290

PART NUMBER INDEX.....293

SECTION 1 - DRIVE TRAIN

SECTION 1 - DRIVE TRAIN

FIGURE 1-1. DRIVE TRAIN ASSEMBLY 4270



Warning
Mis-Matched tire sizes or mixing of tire types (Radial and Bias ply) may compromise vehicle stability and may result in vehicle toover.

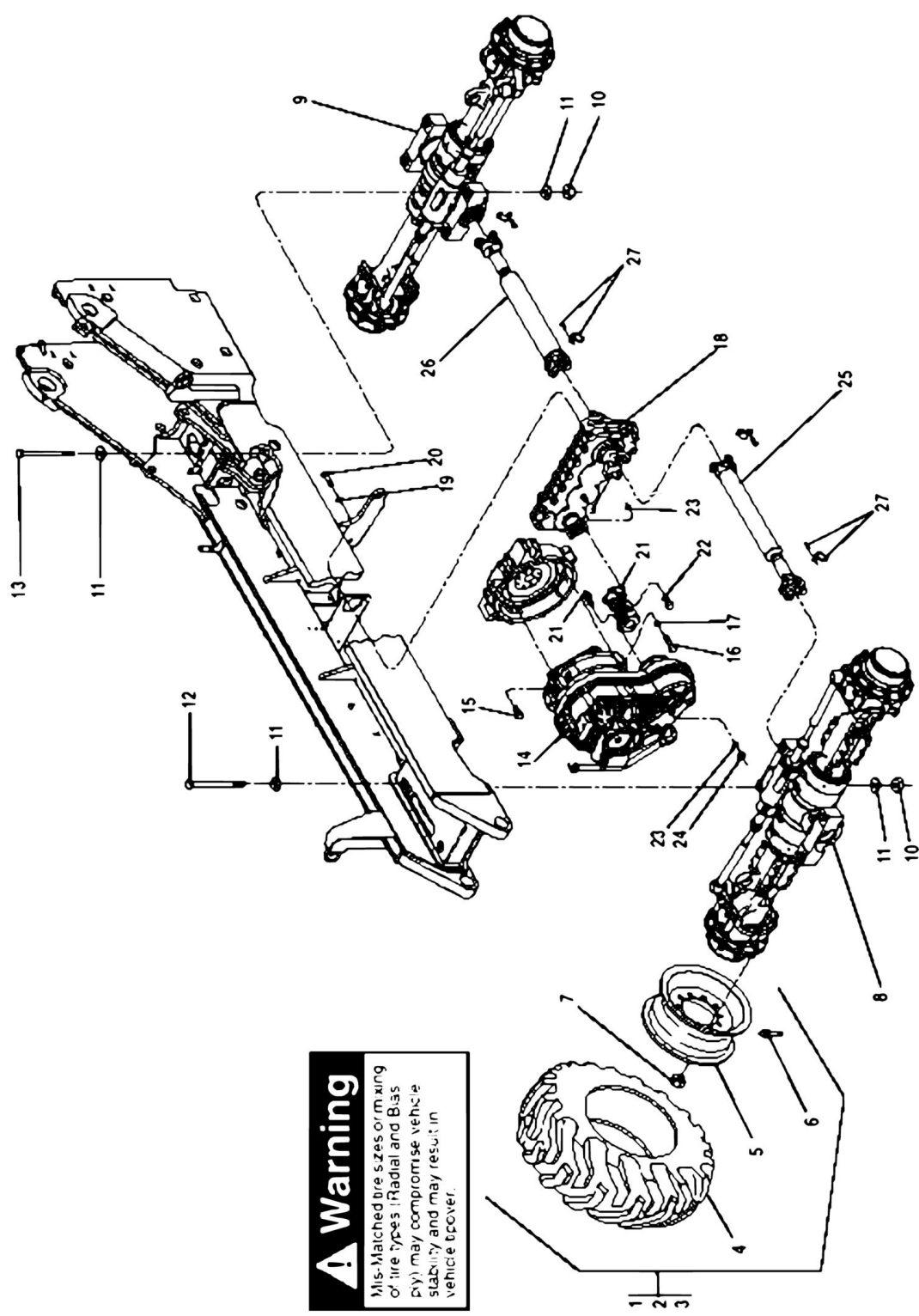
SECTION 1 - DRIVE TRAIN

FIGURE 1-1. DRIVE TRAIN ASSEMBLY 4270

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138338	2	Tire and Wheel Assembly, Right Side, 13.00-24, 12 Ply, Solid Filled (4270 Only)	
1	7138339	2	Tire and Wheel Assembly, Left Side, 13.00-24, 12 Ply, Solid Filled (4270 Only)	
2	7138831	2	Tire and Wheel Assembly, Right Side, 13.00-24, 16 Ply, Grader G-2 (Includes Items 4 thru 6) (4270 Only)	
2	7138832	2	Tire and Wheel Assembly, Left Side, 13.00-24, 16 Ply, Grader G-2 (Includes Items 4 thru 6) (4270 Only)	
3	7139573	4	Tire and Wheel Assembly, Rock, 15.5-25, L3, 12 Ply	
4	8780046	1	Tire, 13.00-24 TG 16 Ply, Grader (For Item 2)	
4	8780050		Tire, 15.5-25, 12 Ply, SRG, Rock (For Item 3)	
5	7138656	1	Rim, 9024GR (For Item 2)	
6	8786514	1	Stem, Valve	
7	1319478	10	Nut, Sph Collar (Lug Nut) (Note: For Wheel Stud See FRONT AXLE - JOINT HOUSING or REAR AXLE - JOINT HOUSING for Breakdown.)	
8	8040269	1	Axle, Front (4270 only) (See FRONT AXLE - INPUT to STEERING CYLINDER for Breakdown)	
9	8040270	1	Axle, Rear (4270 only) (See STEERING CYLINDER to REAR AXLE - PLANETARY DRIVE for Breakdown)	
10	8310481	8	Nut, Hex Lock Elastic 1-8	
11	8310061	16	Washer, Flat 1in	
12	8310480	4	HHCS, 1-8 x 14in Gr 8	
13	8310479	4	HHCS, 1-8 x 11in Gr 8	
14	8841042	1	Transmission - 4 Speed (See ENGINE CONNECTION AND INPUT SHAFTS to OIL PUMP AND FILTER for Breakdown)	
15	8303798	4	HHCS, M10-1,5 x 25mm	
16	8303769	12	HHCS, M10-1,5 x 45mm	
17	8307023	12	Washer, Lock M10	
18	8841041	1	Transfer Box (See TRANSFER BOX for Breakdown)	
19	8307049	4	Washer, Lock M16	
20	8310496	4	HHSC M16-2 x 35mm	
21	7138760	1	Drive Shaft, Transmission to Transfer Box (See DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX for Breakdown)	
22	8310084	8	HHCS, 1/2-20 NF x 2.00in	
23	8307007	8	Washer, Lock 1/2in	
24	8310464	8	Nut, Hex 1/2-20 NF	
25	7135912	1	Drive Shaft, Transfer Box to Front Axle (See DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE for Breakdown)	
26	7135922	1	Drive Shaft, Transfer Box to Rear Axle (See DRIVE SHAFT - TRANSFER BOX TO REAR AXLE for Breakdown)	
27	8880218	8	Strap Kit	

SECTION 1 - DRIVE TRAIN

FIGURE 1-2. DRIVE TRAIN ASSEMBLY 4290



Warning
Mis-Matched tire sizes or mixing of tire types (Radial and Bias ply) may compromise vehicle stability and may result in vehicle toover.

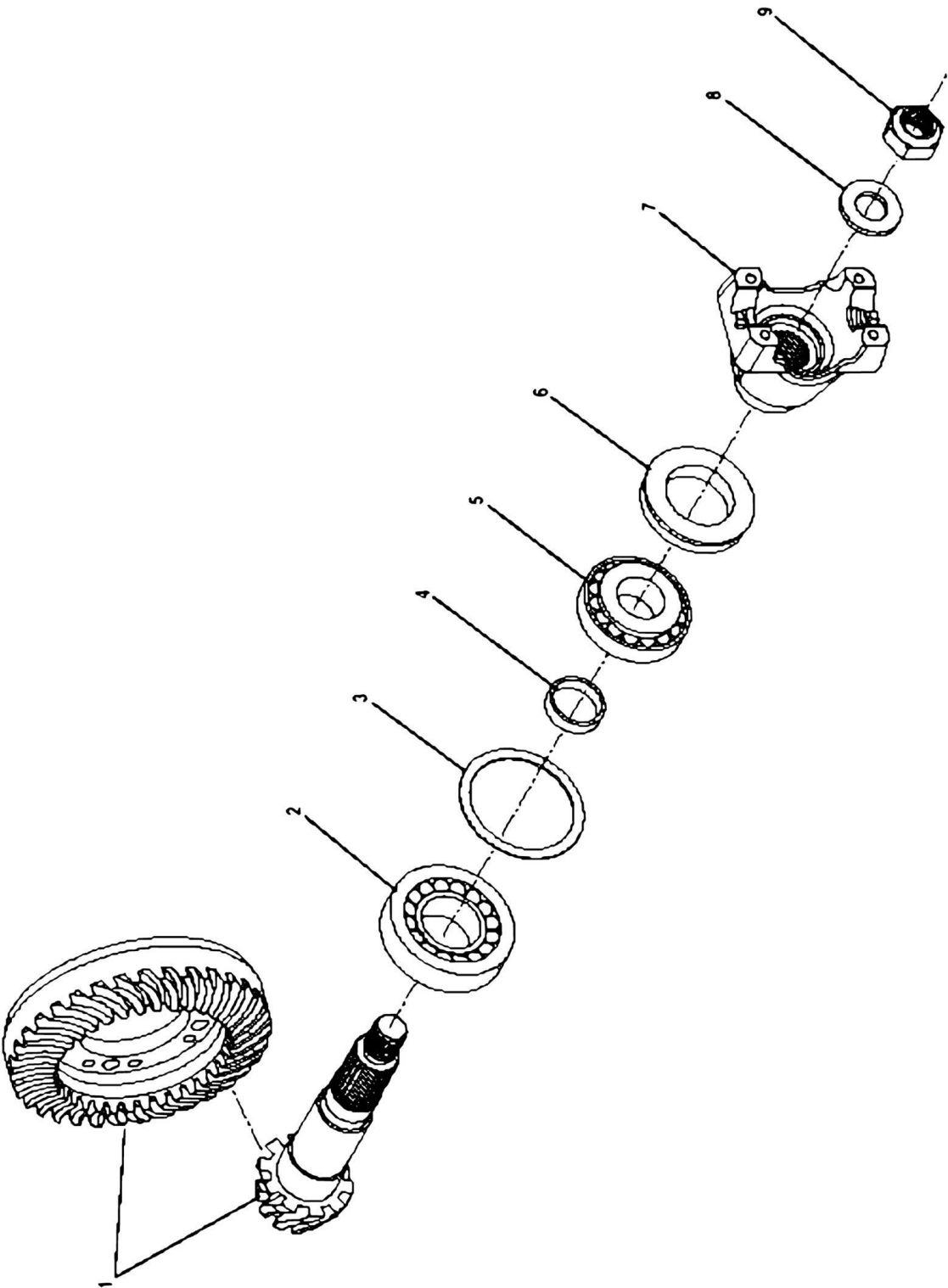
SECTION 1 - DRIVE TRAIN

FIGURE 1-2. DRIVE TRAIN ASSEMBLY 4290

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138336	2	Tire and Wheel Assembly, Right Side, 15.5-25, 12 Ply, Solid Filled (4290 Only)	
1	7138337	2	Tire and Wheel Assembly, Left Side, 15.5-25, 12 Ply, Solid Filled (4290 Only)	
2	7139332	2	Tire and Wheel Assembly, Right Side, 15.5-25,12 Ply, (Includes Items 4 thru 6) (4290 Only)	
2	7139333	2	Tire and Wheel Assembly, Left Side, 15.5-25, 12 Ply, (Includes Items 4 thru 6) (4290 Only)	
3	7139573	4	Tire and Wheel Assembly, Rock, 15.5-25, L3, 12 Ply	
4	8780036	1	Tire, 15.5-25, 12 Ply Loader Dozer (For Item 2)	
4	8780050		Tire, 15.5-25, 12 Ply, SRG, Rock (For Item 3)	
5	7138657	1	Rim, 1325 LR (For Item 2 & 3)	
6	8786514	1	Stem, Valve	
7	1319478	10	Nut, Sph Collar (Lug Nut) (Note: For Wheel Stud See FRONT AXLE - JOINT HOUSING or REAR AXLE - JOINT HOUSING for Breakdown.)	
8	8040261	1	Axle Front (4290 only) (See FRONT AXLE - INPUT to STEERING CYLINDER for Breakdown)	
9	8040262	1	Axle, Rear (4290 only) (See STEERING CYLINDER to REAR AXLE - PLANETARY DRIVE for Breakdown)	
10	8310481	8	Nut, Hex Lock Elastic 1-8	
11	8310061	16	Washer, Flat 1in	
12	8310480	4	HHCS, 1-8 x 14in Gr 8	
13	8310479	4	HHCS, 1-8 x 11in Gr 8	
14	8841042	1	Transmission - 4 Speed (See ENGINE CONNECTION AND INPUT SHAFTS to OIL PUMP AND FILTER for Breakdown)	
15	8303798	4	HHCS, M10-1,5 x 25mm	
16	8303769	12	HHCS, M10-1,5 x 45mm	
17	8307023	12	Washer, Lock M10	
18	8841041	1	Transfer Box (See TRANSFER BOX for Breakdown)	
19	8307049	4	Washer, Lock M16	
20	8310496	4	HHSC M16-2 x 35mm	
21	7138760	1	Drive Shaft, Transmission to Transfer Box (See DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX for Breakdown)	
22	8310084	8	HHCS, 1/2-20 NF x 2.00in	
23	8307007	8	Washer, Lock 1/2in	
24	8310464	8	Nut, Hex 1/2-20 NF	
25	7135912	1	Drive Shaft, Transfer Box to Front Axle (See DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE for Breakdown)	
26	7135922	1	Drive Shaft, Transfer Box to Rear Axle (See DRIVE SHAFT - TRANSFER BOX TO REAR AXLE for Breakdown)	
27	8880218	8	Strap Kit	

SECTION 1 - DRIVE TRAIN

FIGURE 1-3. FRONT AXLE - INPUT



SECTION 1 - DRIVE TRAIN

FIGURE 1-3. FRONT AXLE - INPUT

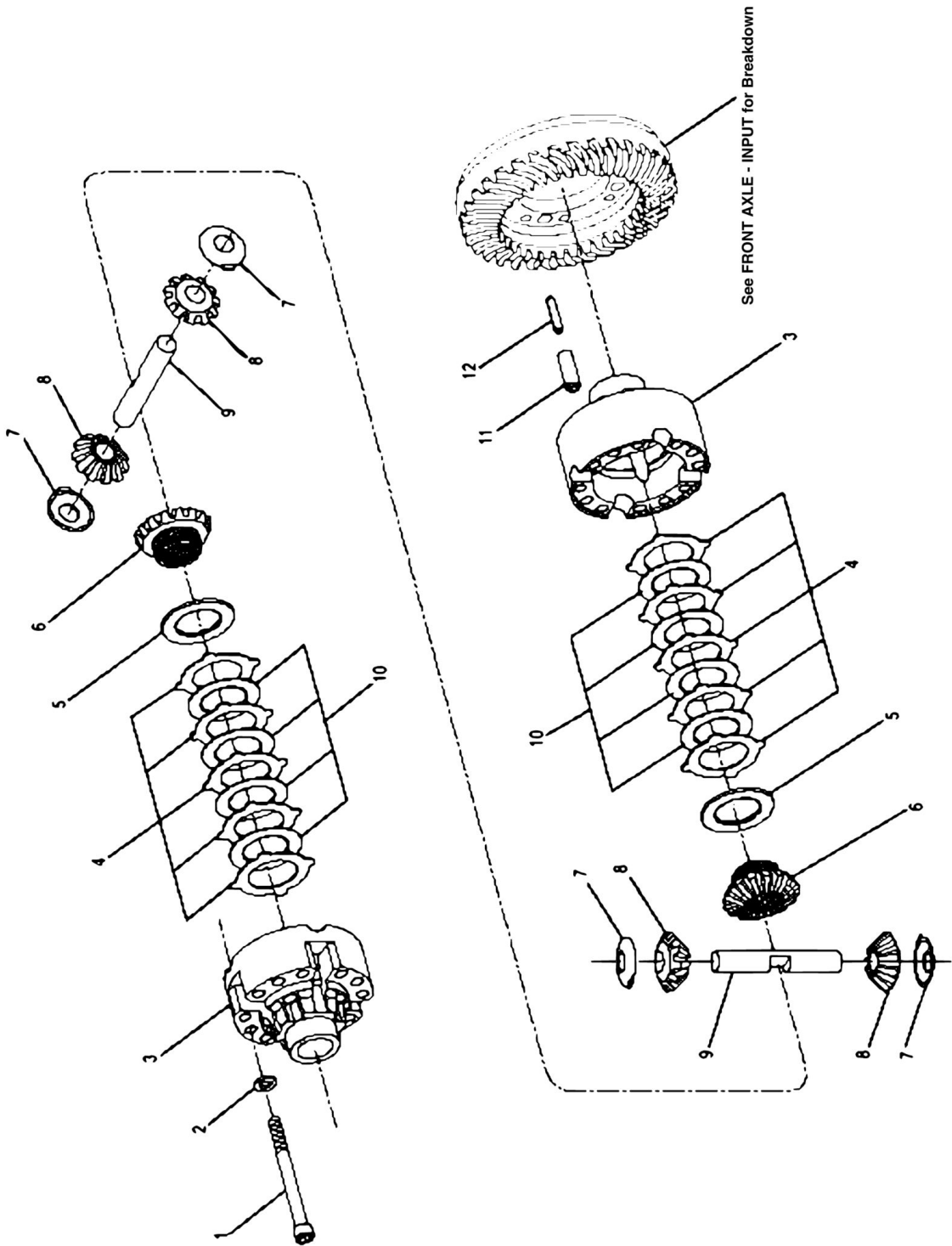
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035870	1	Gear Set Bevel	
2	8035880	1	Bearing, Roller	
3	1321187	AR	Shim, Optional S=1,5	
3	8035871	AR	Shim, Optional S=0,9	
3	8035872	AR	Shim, Optional S=0,95	
3	8035873	AR	Shim, Optional S=1,0	
3	1321186	AR	Shim, Optional S=1,05	
3	8035874	AR	Shim, Optional S=1,1	
3	8035875	AR	Shim, Optional S=1,15	
3	1321185	AR	Shim, Optional S=1,2	
3	8035876	AR	Shim, Optional S=1,25	
3	8035877	AR	Shim, Optional S=1,3	
3	1321189	AR	Shim, Optional S=0,7	
3	8035878	AR	Shim, Optional S=1,75	
3	8035879	AR	Shim, Optional S=0,8	
3	1321190	AR	Shim, Optional S=0,85	
4	8035881	1	Ring, Optional S=11,30	
4	8035882	1	Ring, Optional S=11,33	
4	8035883	1	Ring, Optional S=11,36	
4	8035884	1	Ring, Optional S=11,39	
4	8035885	1	Ring, Optional S=11,42	
4	8035886	1	Ring, Optional S=11,45	
4	1321196	1	Ring, Optional S=11,48	
4	8035887	1	Ring, Optional S=11,51	
4	8035888	1	Ring, Optional S=11,54	
4	8035889	1	Ring, Optional S=11,57	
4	8035890	1	Ring, Optional S=11,60	
4	8035891	1	Ring, Optional S=11,63	
4	1321197	1	Ring, Optional S=11,66	
4	8035892	1	Ring, Optional S=11,69	
4	8035893	1	Ring, Optional S=11,72	
4	8035894	1	Ring, Optional S=11,75	
4	8035895	1	Ring, Optional S=11,78	
4	8035896	1	Ring, Optional S=11,81	
4	1321198	1	Ring, Optional S=11,84	
4	8035897	1	Ring, Optional S=11,87	
4	8035898	1	Ring, Optional S=11,90	
4	8035899	1	Ring, Optional S=11,93	
4	8035900	1	Ring, Optional S=11,96	
4	8035901	1	Ring, Optional S=11,99	
4	8035902	1	Ring, Optional S=12,02	
4	1321199	1	Ring, Optional S=12,05	
4	8035903	1	Ring, Optional S=12,08	
4	8035904	1	Ring, Optional S=12,11	
4	8035905	1	Ring, Optional S=12,14	
4	8035906	1	Ring, Optional S=12,17	
4	1321200	1	Ring, Optional S=12,20	
4	8035907	1	Ring, Optional S=12,23	
4	8035908	1	Ring, Optional S=12,26	
4	8035909	1	Ring, Optional S=12,29	

SECTION 1 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	8035910	1	Ring, Optional S=12,32	
4	8035911	1	Ring, Optional S=12,35	
4	1321201	1	Ring, Optional S=12,38	
4	8035912	1	Ring, Optional S=11,27	
4	1321204	1	Ring, Optional S=11,24	
4	8035913	1	Ring, Optional S=11,21	
4	8035914	1	Ring, Optional S=11,18	
4	8035915	1	Ring, Optional S=11,15	
4	8035916	1	Ring, Optional S=11,12	
4	1321203	1	Ring, Optional S=11,09	
4	8035917	1	Ring, Optional S=11,06	
4	8035918	1	Ring, Optional S=11,03	
4	8035919	1	Ring, Optional S=11,00	
4	8035920	1	Ring, Optional S=10,97	
4	1321202	1	Ring, Optional S=10,94	
5	1321212	1	Bearing, Roller	
6	1321210	1	Ring, Combination	
7	1321248	1	Yoke, End	
8	1321194	1	Washer	
9	8035921	1	Nut, Hex	

SECTION 1 - DRIVE TRAIN

FIGURE 1-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL



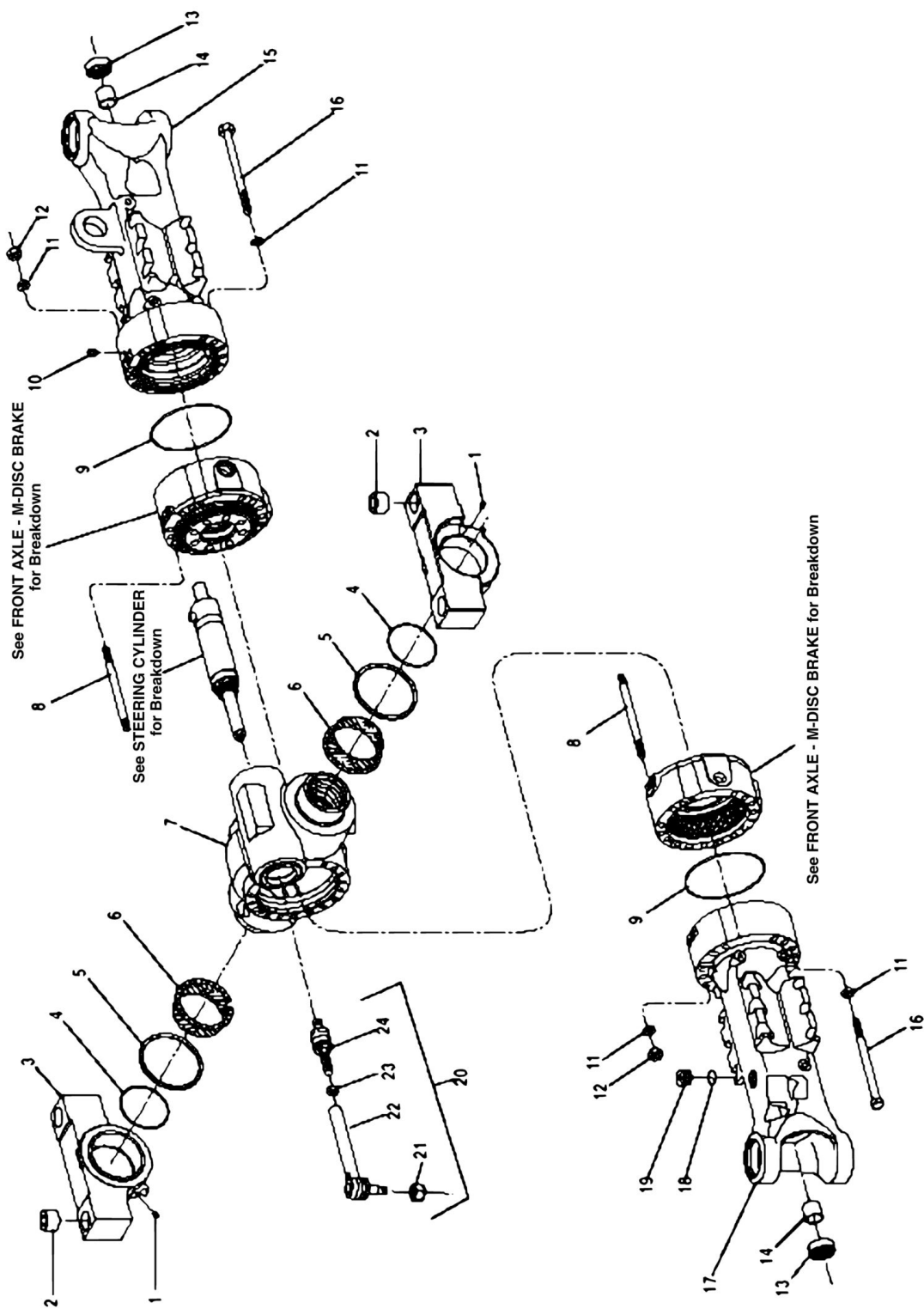
SECTION 1 - DRIVE TRAIN

FIGURE 1-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035923	12	Screw, Cap	
2	1321184	12	Washer	
3	1321215	1	Case, Differential	
4	1321219	10	Disc, O. Clutch - Optional A=1,2	
4	1321220	10	Disc, O. Clutch - Optional A=1,3	
4	1321221	10	Disc, O. Clutch - Optional A=1,4	
5	1321217	2	Disc, Pressure	
6	1321222	2	Gear, Axle Bevel	
7	1319415	4	Washer, Thrust	
8	8035922	4	Gear, Differential Bevel	
9	1321225	2	Axle, Differential	
10	1321218	8	Disc, I. Clutch	
11	1321153	4	Pin, Slotted	
12	1321154	4	Pin, Slotted	

SECTION 1 - DRIVE TRAIN

FIGURE 1-5. FRONT AXLE - AXLE CASING



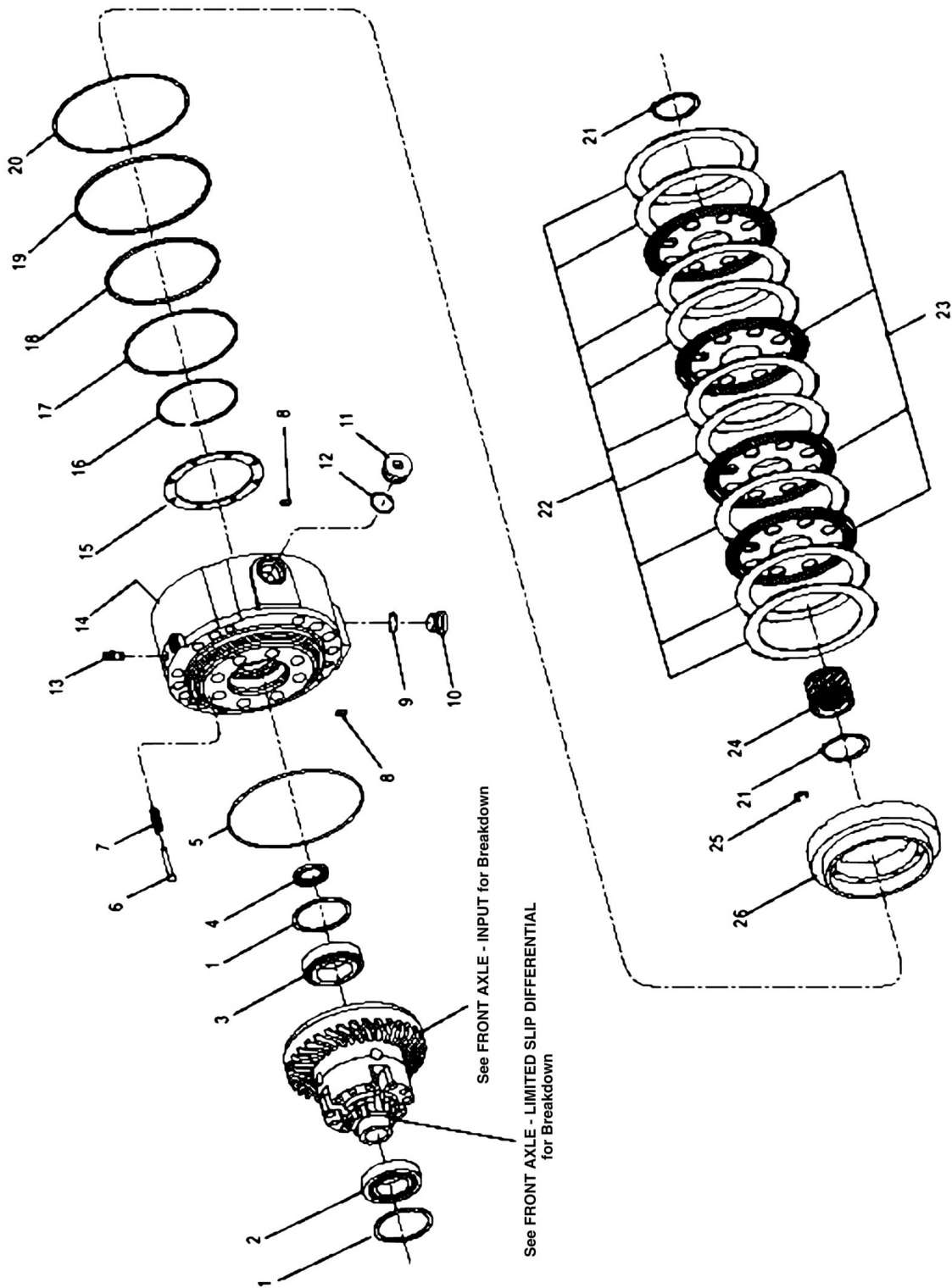
SECTION 1 - DRIVE TRAIN

FIGURE 1-5. FRONT AXLE - AXLE CASING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319423	2	Fitting, Grease	
2	1319441	4	Bushing, Centering	
3	8035933	2	Bracket	
4	1319439	2	O-Ring	
5	1319440	2	V-Ring	
6	1319438	2	Bushing, Flange	
7	1321252	1	Housing, Axle Drive	
8	8035928	8	Stud	
9	1319425	2	O-Ring	
10	1319436	1	Valve, Vent	
11	1319427	30	Washer	
12	1319429	8	Nut, Hex	
13	1319434	2	Seal, Shaft	
14	1319433	2	Bushing	
15	8035924	1	Axle Casing, Right Front	
16	8035927	22	Screw, Hex	
17	8035925	1	Axle Casing, Left Front	
18	1319432	1	O-Ring	
19	1319506	1	Plug, Screw	
20	1321148	2	Coupling Assembly, Axial Joint (Includes Items 21 thru 24)	
21	8035931	1	Nut, Locking	
22	8035929	1	Coupling, Ball Joint w/Pipe	
23	8035932	1	Nut, Hex	
24	8035930	1	Coupling, Axial Joint	

SECTION 1 - DRIVE TRAIN

FIGURE 1-6. FRONT AXLE - M-DISC BRAKE



SECTION 1 - DRIVE TRAIN

FIGURE 1-6. FRONT AXLE - M-DISC BRAKE

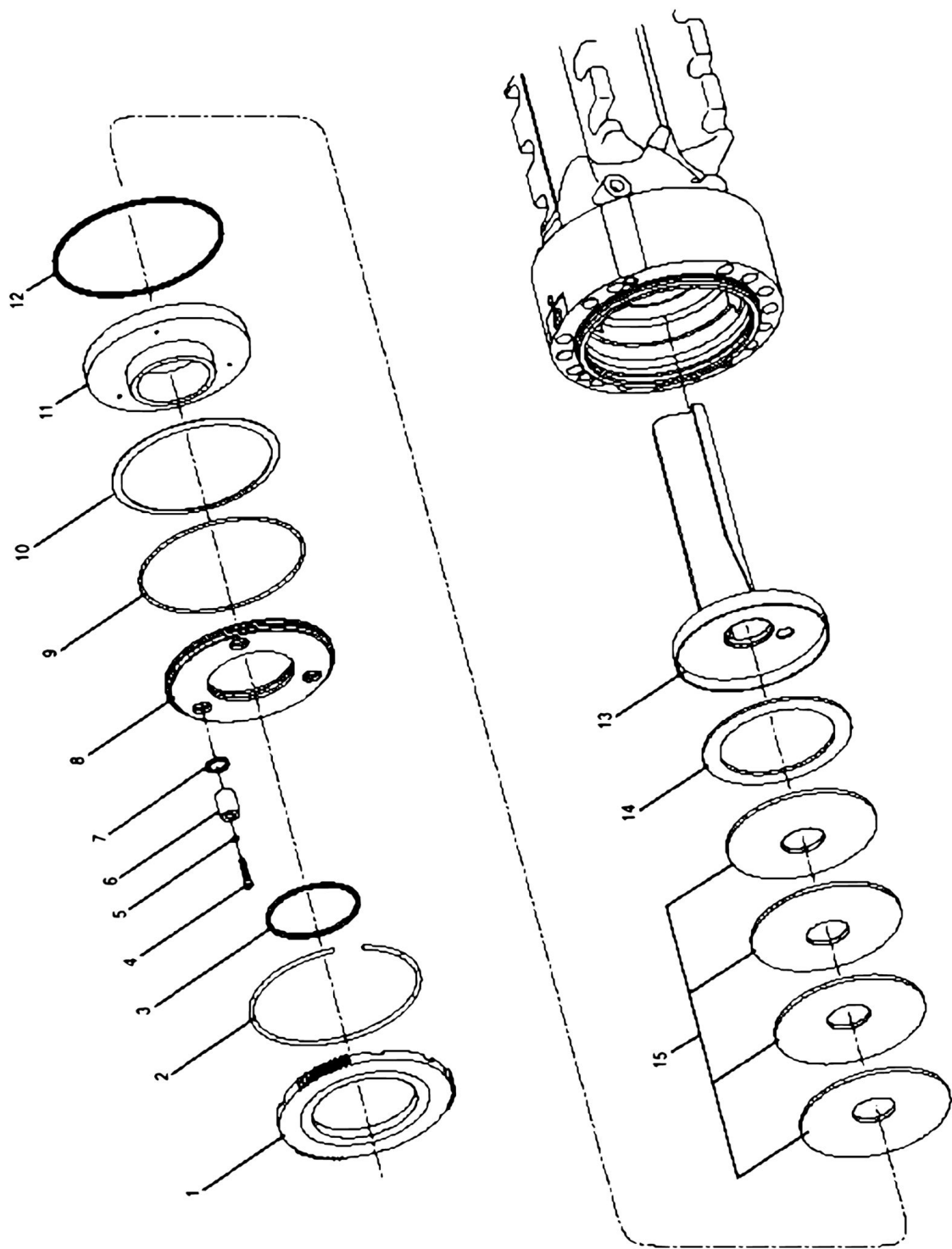
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319531	AR	Shim, Optional A=0,1	
1	1319530	AR	Shim, Optional A=0,2	
1	1319529	AR	Shim, Optional A=0,3	
1	8035951	AR	Shim, Optional A=0,4	
1	1319543	AR	Shim, Optional A=0,45	
1	1319527	AR	Shim, Optional A=0,5	
1	1321158	AR	Shim, Optional A=0,55	
1	1319526	AR	Shim, Optional A=0,6	
1	1319532	AR	Shim, Optional A=0,65	
1	1319533	AR	Shim, Optional A=0,7	
1	1319534	AR	Shim, Optional A=0,75	
1	1319525	AR	Shim, Optional A=0,8	
1	1319535	AR	Shim, Optional A=0,85	
1	1319536	AR	Shim, Optional A=0,9	
1	1319537	AR	Shim, Optional A=0,95	
1	1319524	AR	Shim, Optional A=1,0	
1	1319525	AR	Shim, Optional A=1,05	
1	1319538	AR	Shim, Optional A=1,10	
1	1319539	AR	Shim, Optional A=1,15	
1	1319523	AR	Shim, Optional A=1,20	
1	1319540	AR	Shim, Optional A=1,25	
1	1319541	AR	Shim, Optional A=1,30	
1	1319542	AR	Shim, Optional A=1,35	
1	1319522	AR	Shim, Optional A=1,40	
1	1319521	AR	Shim, Optional A=1,45	
1	1319520	AR	Shim, Optional A=1,50	
1	1319519	AR	Shim, Optional A=1,55	
1	1319518	AR	Shim, Optional A=1,60	
1	1319517	AR	Shim, Optional A=1,65	
1	1319510	AR	Shim, Optional A=2,0	
1	1321159	AR	Shim, Optional A=1,47	
1	1319516	AR	Shim, Optional A=1,70	
1	1319515	AR	Shim, Optional A=1,75	
1	1319514	AR	Shim, Optional A=1,80	
1	1319513	AR	Shim, Optional A=1,85	
1	1319512	AR	Shim, Optional A=1,90	
1	1319511	2	Shim, Optional A=1,95	
2	8035944	2	Bearing, Roller	
3	1321165	2	Bearing, Roller	
4	1321161	2	Seal, Shaft	
5	1319425	2	O-Ring	
6	1319496	16	Pin	
7	1319497	16	Spring, Compression	
8	1319491	12	O-Ring	
9	1321156	2	O-Ring	
10	1319431	2	Plug, Screw	
11	1319506	2	Plug, Screw	
12	1319432	2	O-Ring	
13	1319505	2	Valve, Vent	
14	8035936	1	Housing, Brake - Right Side	

SECTION 1 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
14	8035939	1	Housing, Brake - Left Side	
15	1319498	2	Washer	
16	1319504	2	Ring, Snap	
17	1321151	2	Ring, Support	
18	8035941	2	U-Ring	
19	8035949	2	U-Ring	
20	8035943	2	Ring, Support	
21	10731949	4	Ring, Retaining	
22	1319501	18	Disc, O. Clutch - Optional S=2,5 (4270)	
22	1319502	18	Disc, O. Clutch - Optional S=3,0 (4270)	
22	1319500	18	Disc, O. Clutch - Optional S=2,0 (4270)	
22	1319501	16	Disc, O. Clutch - Optional S=2,5 (4290)	
22	1319502	16	Disc, O. Clutch - Optional S=3,0 (4290)	
22	1319500	16	Disc, O. Clutch - Optional S=2,0 (4290)	
23	1321150	8	Disc, I. Clutch (4270)	
23	1321150	10	Disc, I. Clutch (4290)	
24	1321174	2	Carrier, Disc	
25	1319499	16	Ring, Crescent	
26	8035940	2	Piston	

SECTION 1 - DRIVE TRAIN

FIGURE 1-7. FRONT AXLE - BRAKE



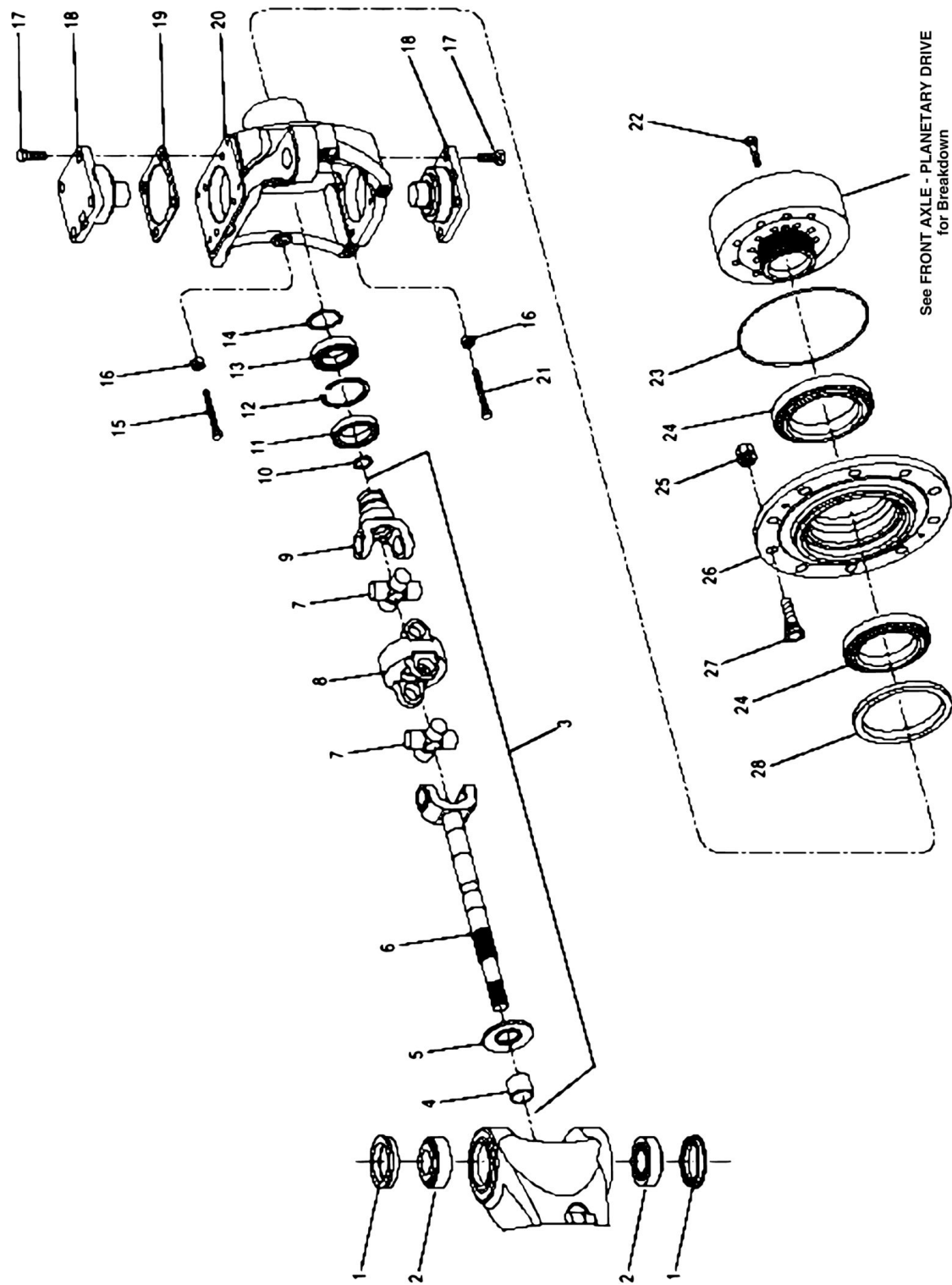
SECTION 1 - DRIVE TRAIN

FIGURE 1-7. FRONT AXLE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035952	2	Shim, End	
2	1321206	2	Ring, Snap	
3	1321179	2	Ring, Four-Lip	
4	8035954	6	Screw, Cap	
5	8035955	6	O-Ring	
6	1321244	6	Pin, Pressure	
7	1321181	6	Ring, Four-Lip	
8	8036018	2	Washer, Sealing	
9	1321182	2	O-Ring	
10	1321208	2	Spring, Cup	
11	1321240	2	Piston	
12	1321180	2	Ring, Four-Lip	
13	1321172	2	Carrier, Pin	
14	8035958	2	Washer, Spacing	
15	1321207	8	Spring, Cup	

SECTION 1 - DRIVE TRAIN

FIGURE 1-8. FRONT AXLE - JOINT HOUSING



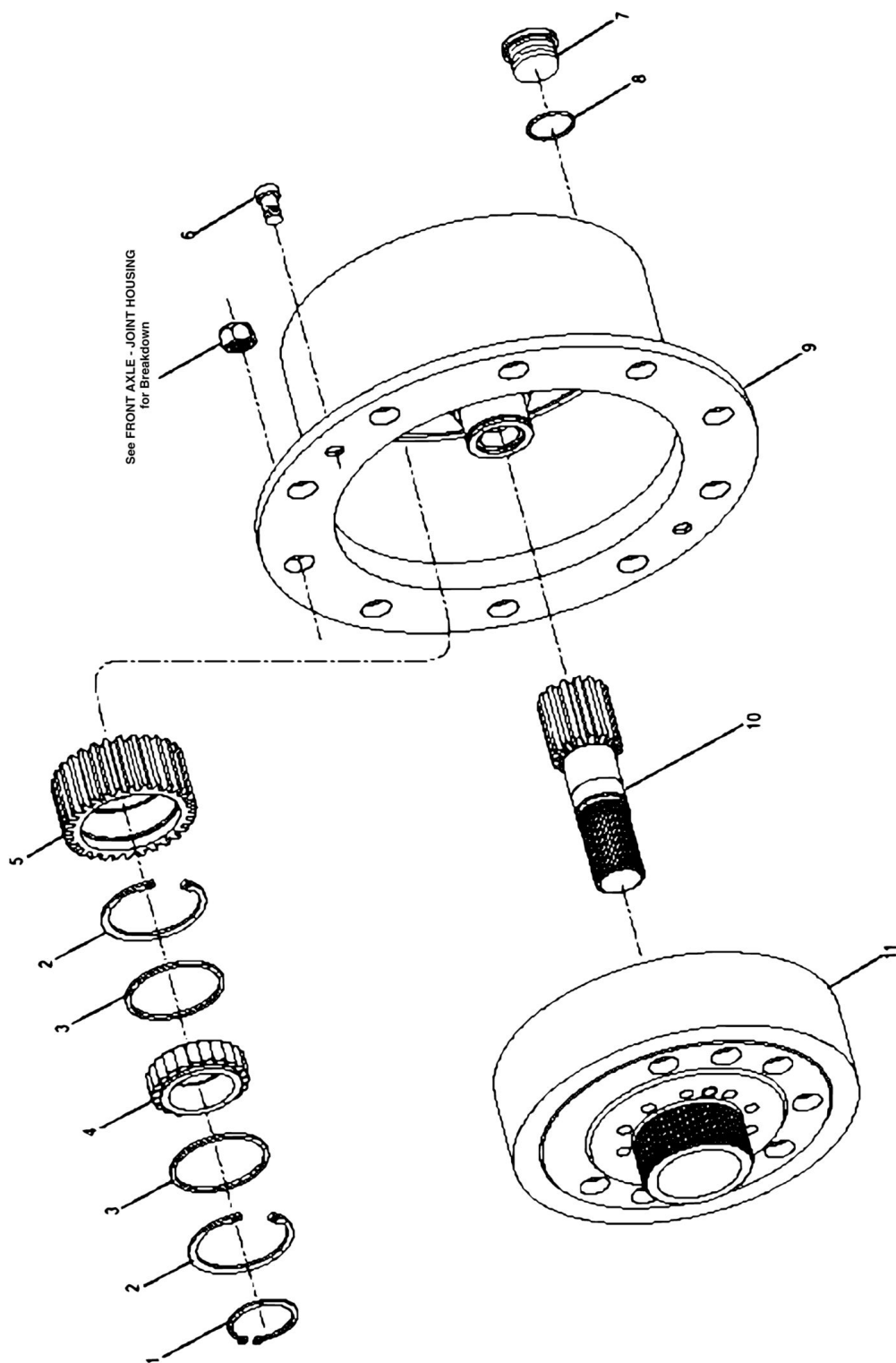
SECTION 1 - DRIVE TRAIN

FIGURE 1-8. FRONT AXLE - JOINT HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319447	4	Seal, Shaft	
2	1319445	4	Bearing, Roller	
3	1321175	2	Shaft, D. Universal Coupling (Includes Items 4 thru 9)	
4	8035973	1	Bushing	
5	8035974	1	Sheet, Screen	
6	8035972	1	Fork, Joint Coupling	
7	8035970	2	Cross, Joint	
8	8035969	1	Central Piece	
9	8035971	1	Fork, Joint	
10	1321228	2	Ring, Retaining	
11	1321164	2	Seal, Shaft	
12	1319210	2	Ring, Retaining	
13	1321157	2	Bearing, Ball	
14	80304405	2	Ring, Retaining	
15	1319475	2	Screw, Stop	
16	1319477	4	Nut, Hex	
17	1319464	16	Screw, Hex	
18	1319462	4	Pin, Bearing	
19	1321249	AR	Shim, Optional A=0,2	
19	8035959	AR	Shim, Optional A=0,3	
19	8035960	AR	Shim, Optional A=0,4	
19	8035961	AR	Shim, Optional A=0,5	
19	8035962	AR	Shim, Optional A=0,6	
19	1321250	AR	Shim, Optional A=0,7	
19	8035963	AR	Shim, Optional A=0,8	
19	8035964	AR	Shim, Optional A=1,0	
19	8035965	AR	Shim, Optional A=1,2	
19	8035966	AR	Shim, Optional A=1,4	
19	1321251	AR	Shim, Optional A=1,6	
19	8035967	AR	Shim, Optional A=1,8	
19	8035968	AR	Shim, Optional A=2,0	
20	1321256	1	Housing, Joint - Right Side	
20	1321257	1	Housing, Joint - Left Side	
21	1319476	2	Screw, Stop	
22	8035975	20	Screw, Hex	
23	1321155	2	O-Ring	
24	1319472	4	Bearing, Roller	
25	1319478	20	Nut, Sph Collar (Lug Nut)	
26	1321254	2	Hub	
27	1101056	20	Bolt, Wheel (Stud)	
28	1319471	2	Seal, Shaft	

SECTION 1 - DRIVE TRAIN

FIGURE 1-9. FRONT AXLE - PLANETARY DRIVE



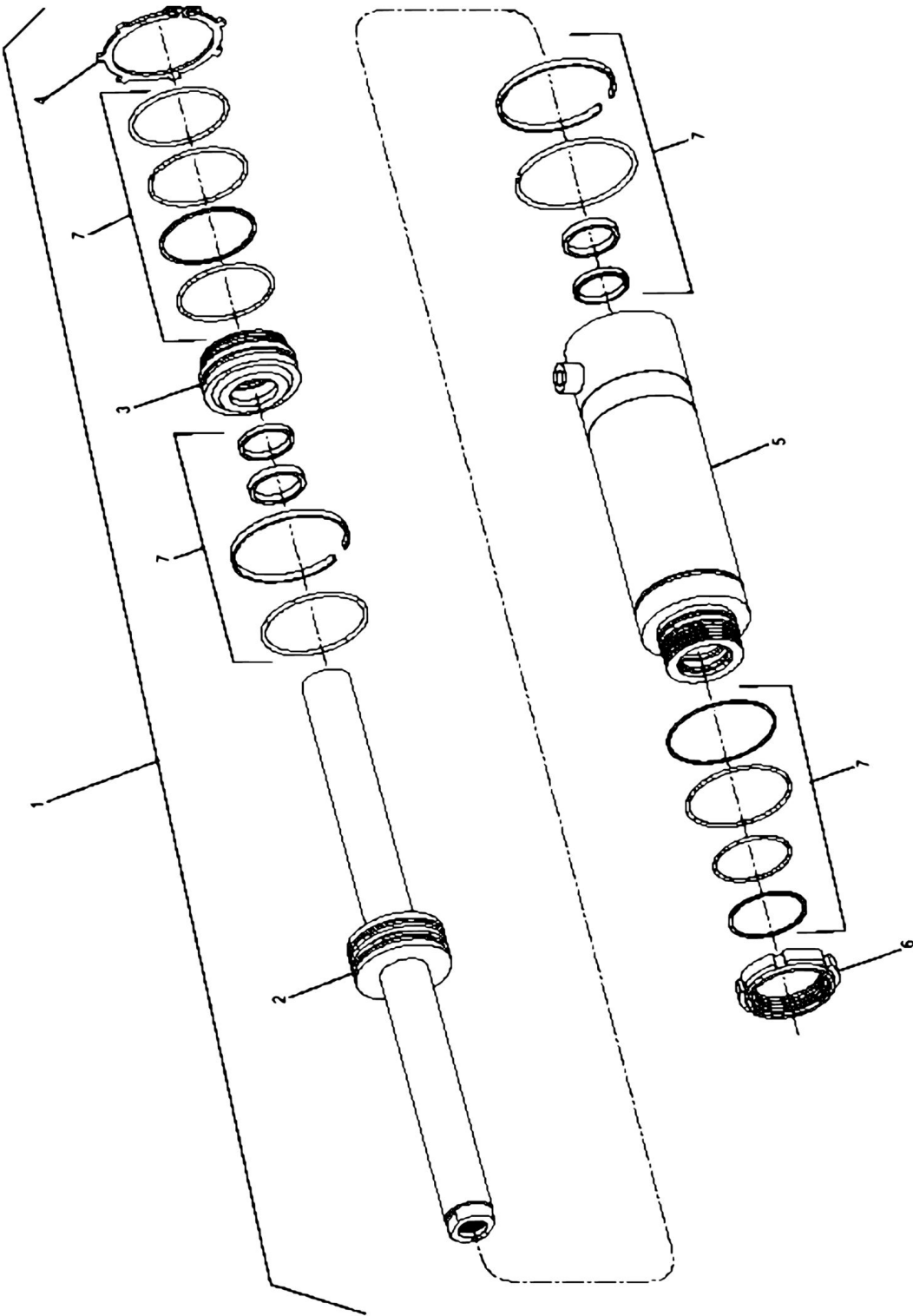
SECTION 1 - DRIVE TRAIN

FIGURE 1-9. FRONT AXLE - PLANETARY DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321177	6	Ring, Retaining	
2	1321205	12	Ring, Snap	
3	1321191	12	Washer	
4	1321214	6	Bearing, Roller	
5	1321233	6	Gear, Planet	
6	8035977	4	Screw, Cap	
7	1319506	2	Plug, Screw	
8	1319432	2	O-Ring	
9	1321232	2	Carrier, Planet	
10	1321255	2	Shaft, Sun Gear	
11	1321258	2	Gear, Ring	

SECTION 1 - DRIVE TRAIN

FIGURE 1-10. STEERING CYLINDER



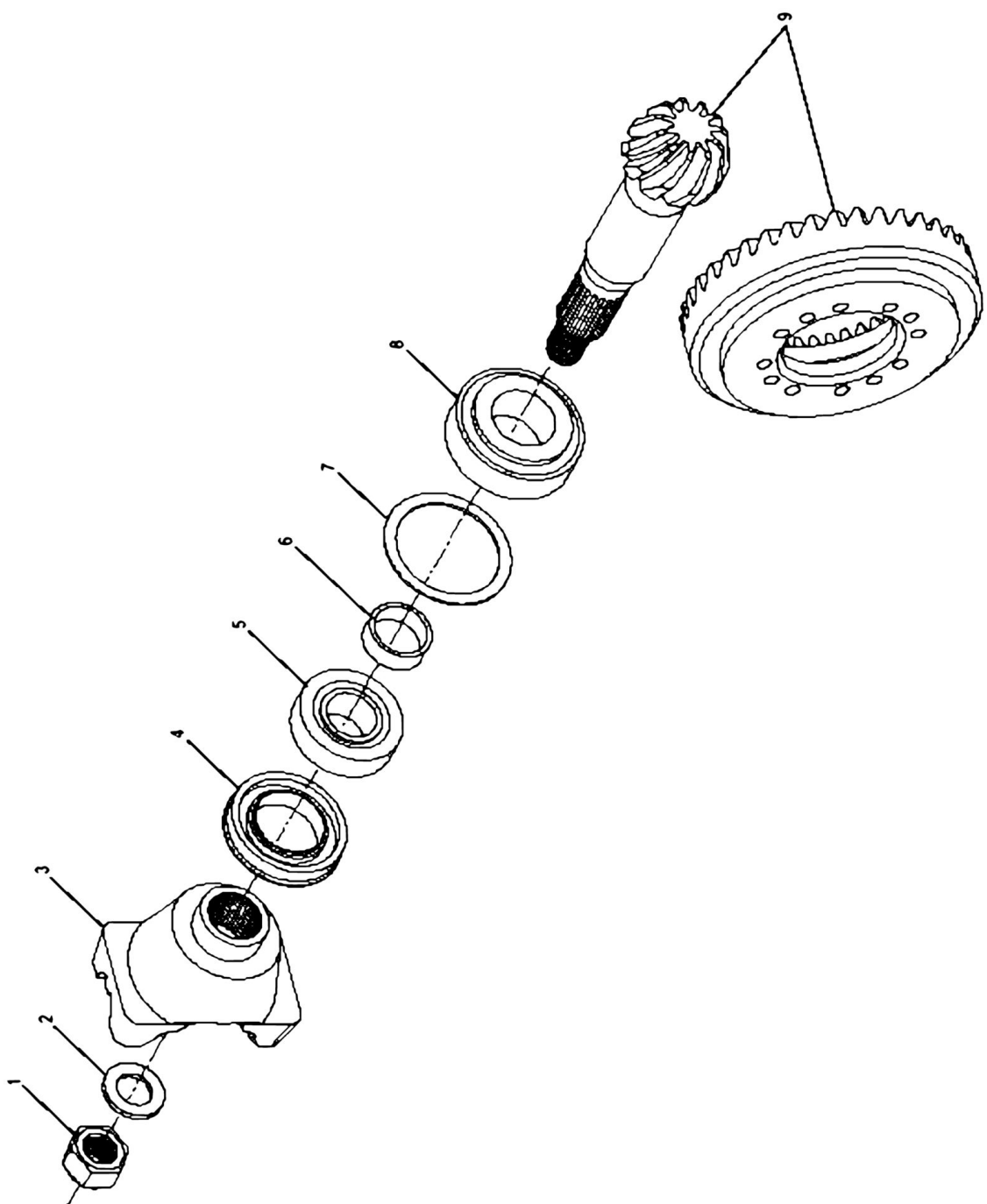
SECTION 1 - DRIVE TRAIN

FIGURE 1-10. STEERING CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321149		Steer Cylinder Assembly (Includes Items 2 thru 7)	
2	1321061	1	Rod, Piston	
3	8035980	1	Guide Piece	
4	8035978	1	L-Ring	
5	8035979	1	Tube, Cylinder	
6	1321062	1	Nut, Slotted	
7	8035981	1	Kit, Seal	

SECTION 1 - DRIVE TRAIN

FIGURE 1-11. REAR AXLE - INPUT



SECTION 1 - DRIVE TRAIN

FIGURE 1-11. REAR AXLE - INPUT

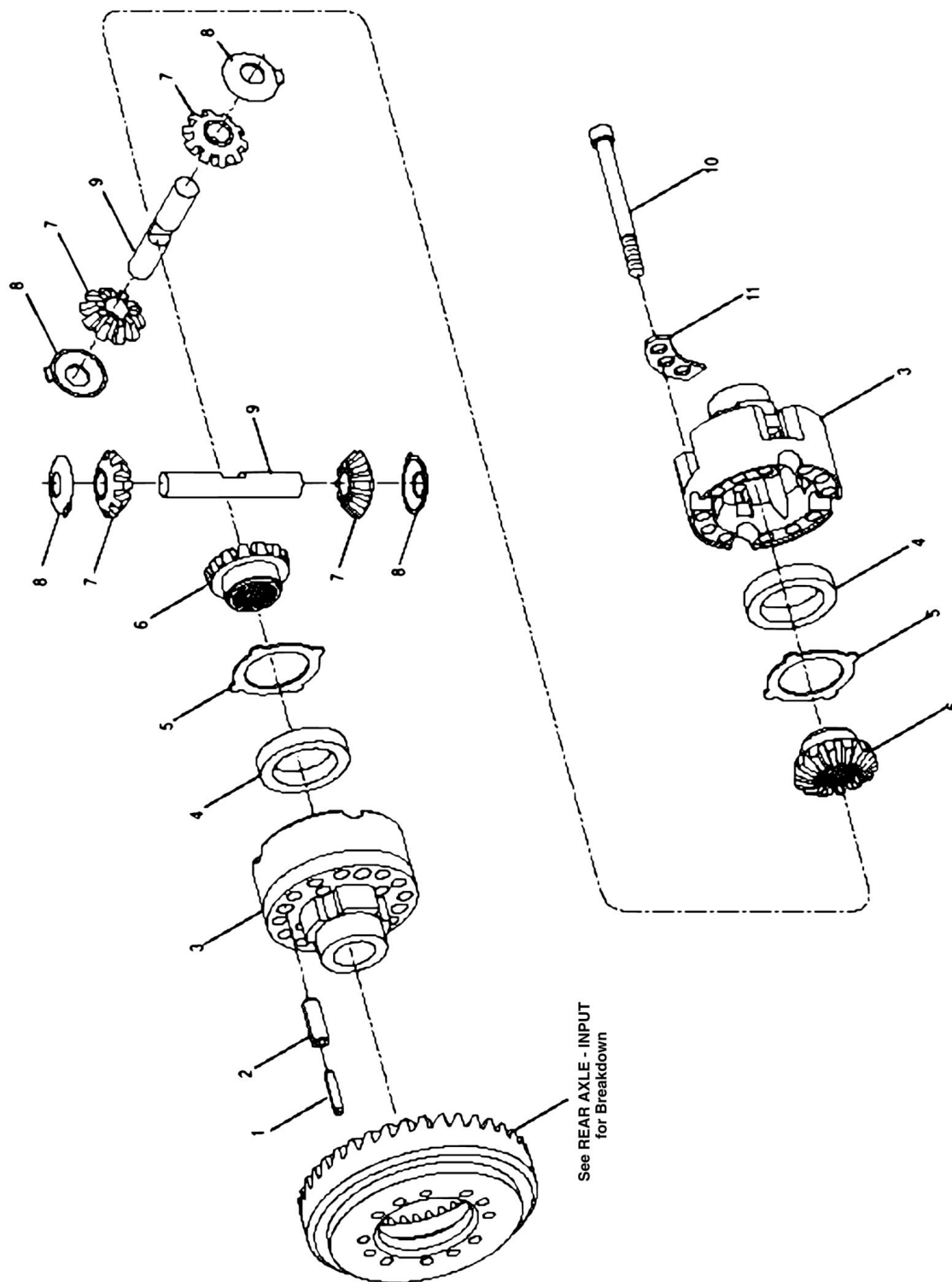
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035983	1	Nut, Hex	
2	1319406	1	Washer	
3	1321237	1	Yoke, End	
4	1321211	1	Ring, Combination	
5	1321212	1	Bearing, Roller	
6	1319354	1	Ring, Optional S=15,1	
6	1319355	1	Ring, Optional S=15,2	
6	1319356	1	Ring, Optional S=15,3	
6	1319357	1	Ring, Optional S=15,4	
6	1319358	1	Ring, Optional S=15,5	
6	1319359	1	Ring, Optional S=15,6	
6	1319360	1	Ring, Optional S=15,7	
6	1319361	1	Ring, Optional S=15,8	
6	1319362	1	Ring, Optional S=15,9	
6	1319363	1	Ring, Optional S=16,0	
6	1319364	1	Ring, Optional S=16,1	
6	1319365	1	Ring, Optional S=16,2	
6	1319366	1	Ring, Optional S=16,3	
6	1319367	1	Ring, Optional S=16,4	
6	8035982	1	Ring, Optional S=16,26	
6	1319369	1	Ring, Optional S=16,23	
6	1319370	1	Ring, Optional S=16,16	
6	1319371	1	Ring, Optional S=16,13	
6	1319372	1	Ring, Optional S=16,06	
6	1319373	1	Ring, Optional S=16,03	
6	1319374	1	Ring, Optional S=15,96	
6	1319375	1	Ring, Optional S=15,93	
6	1319376	1	Ring, Optional S=15,86	
6	1319377	1	Ring, Optional S=15,83	
6	1319378	1	Ring, Optional S=15,76	
6	1319379	1	Ring, Optional S=15,73	
6	1319380	1	Ring, Optional S=15,66	
6	1319381	1	Ring, Optional S=15,63	
6	1319382	1	Ring, Optional S=15,56	
6	1319383	1	Ring, Optional S=15,53	
6	1319384	1	Ring, Optional S=15,46	
6	1319385	1	Ring, Optional S=15,43	
6	1319386	1	Ring, Optional S=15,36	
6	1319387	1	Ring, Optional S=15,33	
6	1319388	1	Ring, Optional S=15,26	
6	1319389	1	Ring, Optional S=15,38	
6	1319390	1	Ring, Optional S=15,48	
6	1319391	1	Ring, Optional S=15,58	
6	1319392	1	Ring, Optional S=15,68	
6	1319393	1	Ring, Optional S=15,69	
6	1319394	1	Ring, Optional S=15,72	
6	1319395	1	Ring, Optional S=15,78	
6	1319396	1	Ring, Optional S=15,81	
6	1319397	1	Ring, Optional S=15,84	
6	1319398	1	Ring, Optional S=15,88	

SECTION 1 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6	1319399	1	Ring, Optional S=15,89	
6	1319400	1	Ring, Optional S=15,91	
6	1319401	1	Ring, Optional S=15,94	
6	1319402	1	Ring, Optional S=15,97	
7	1319333	AR	Washer, Optional S=1,0	
7	1319334	AR	Washer, Optional S=1,05	
7	1319335	AR	Washer, Optional S=1,1	
7	1319336	AR	Washer, Optional S=1,15	
7	1319337	AR	Washer, Optional S=1,2	
7	1319338	AR	Washer, Optional S=1,25	
7	1319339	AR	Washer, Optional S=1,3	
7	1319340	AR	Washer, Optional S=1,35	
7	1319341	AR	Washer, Optional S=1,4	
7	1319342	AR	Washer, Optional S=1,45	
7	1319343	AR	Washer, Optional S=1,5	
7	1319344	AR	Washer, Optional S=1,55	
7	1319345	AR	Washer, Optional S=1,6	
7	1319346	AR	Washer, Optional S=0,9	
7	1319347	AR	Washer, Optional S=0,95	
7	1319348	AR	Washer, Optional S=0,65	
7	1319349	AR	Washer, Optional S=0,70	
7	1319350	AR	Washer, Optional S=0,75	
7	1319351	AR	Washer, Optional S=0,85	
7	1319352	AR	Washer, Optional S=0,80	
8	1319353	1	Bearing, Roller	
9	1321229	1	Gear Set, Bevel	

SECTION 1 - DRIVE TRAIN

FIGURE 1-12. REAR AXLE - DIFFERENTIAL



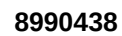
SECTION 1 - DRIVE TRAIN

FIGURE 1-12. REAR AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321154	4	Pin, Slot.	
2	1321153	4	Pin, Slot.	
3	1321216	1	Case, Differential	
4	1321260	2	Ring, Differential A=13,7	
4	8035984	2	Ring, Differential A=13,6	
4	1321259	2	Ring, Differential A=13,5	
5	1319412	2	Washer, Thrust	
6	1321223	2	Gear, Axle Bevel	
7	1321262	4	Gear, Differential Bevel	
8	1321188	4	Washer, Thrust	
9	1321224	2	Axle, Differential	
10	8035985	12	Screw, Cap	
11	1321227	4	Segment	

38

4290 High,4270 Low,4290 Low,4270 High



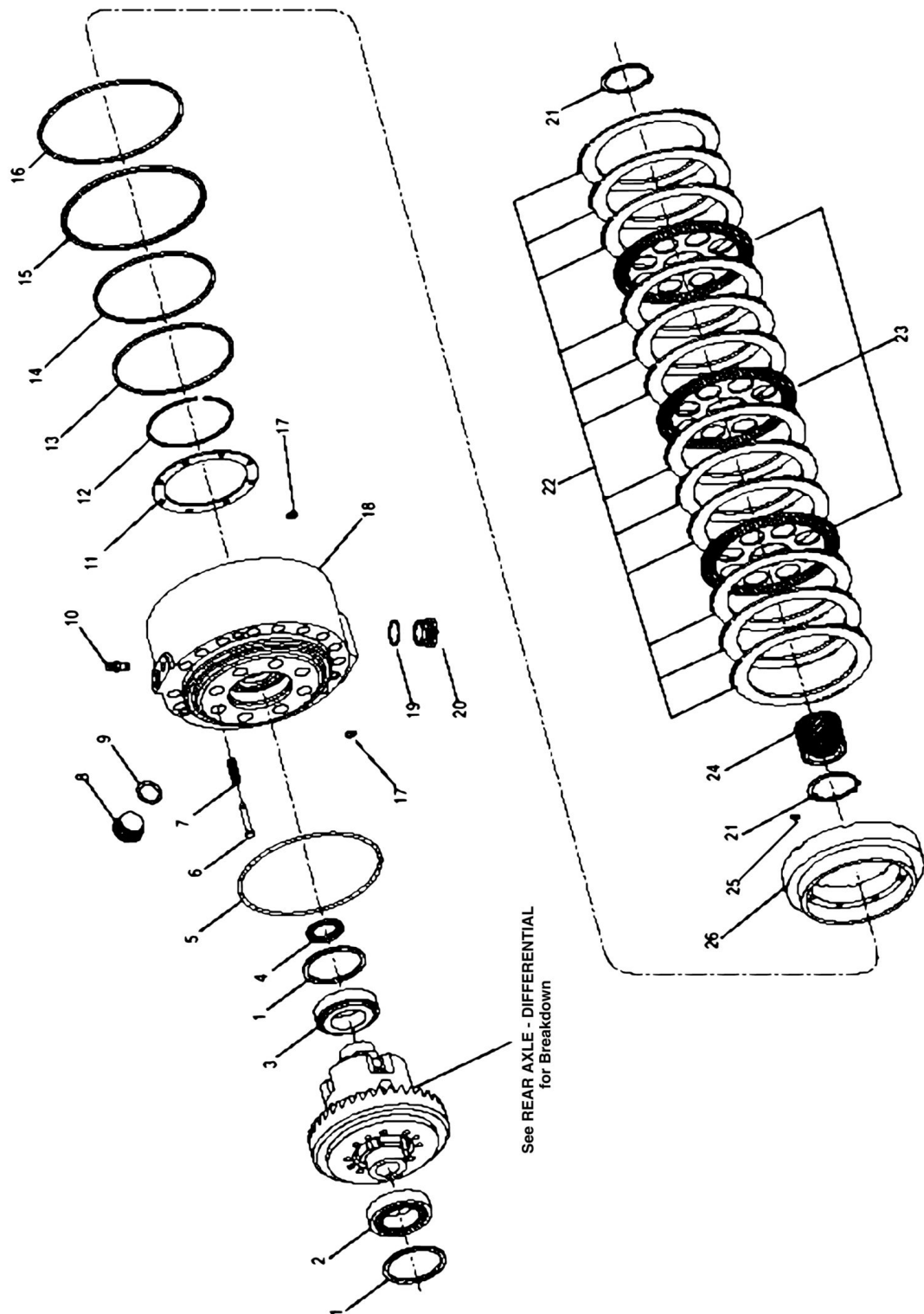
SECTION 1 - DRIVE TRAIN

FIGURE 1-13. REAR AXLE - AXLE CASING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319441	4	Bushing, Centering	
2	8035933	2	Bracket	
3	1319423	2	Fitting, Grease	
4	1319439	2	O-Ring	
5	1319440	2	V-Ring	
6	1319438		Bushing, Flange	
7	1321236	1	Housing, Axle Drive	
8	1321148	2	Coupling Assembly, Axial Joint (Includes Items 9 thru 12)	
9	8035930	2	Coupling, Axial Joint	
10	8035932	2	Nut, Hex	
11	8035929	2	Coupling, Ball Joint w/Pipe	
12	8035931	2	Nut, Locking	
13	1319427	30	Washer	
14	1319429	8	Nut, Hex	
15	1319506	1	Plug, Screw	
16	1319432	1	O-Ring	
17	1319434	2	Seal, Shaft	
18	1319433	2	Bushing	
19	8035927	22	Screw, Hex	
20	8035987	1	Casing, Axle (Left Rear)	
21	1319425	2	O-Ring	
22	8035990	2	Shim, End	
23	8035989	8	Stud	
24	8035986	1	Casing, Axle (Right Rear)	
25	1319436	1	Valve, Vent	

SECTION 1 - DRIVE TRAIN

FIGURE 1-14. REAR AXLE - M-DISC BRAKE



SECTION 1 - DRIVE TRAIN

FIGURE 1-14. REAR AXLE - M-DISC BRAKE

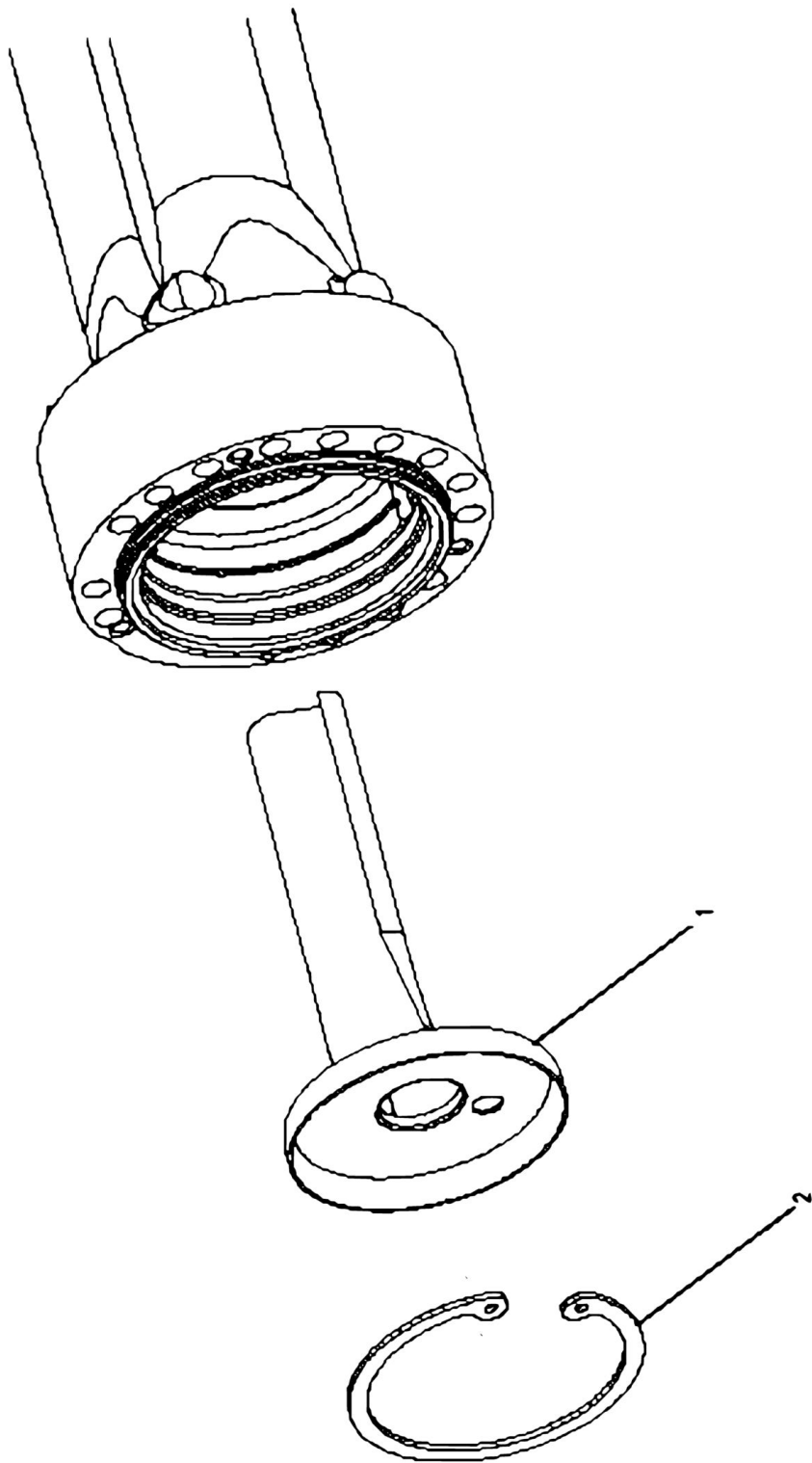
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319531	2	Shim, Optional A=0,1	
1	8035945	2	Shim, Optional A=0,15	
1	1318539	2	Shim, Optional A=0,2	
1	8035946	2	Shim, Optional A=0,25	
1	1319529	2	Shim, Optional A=0,3	
1	8035947	2	Shim, Optional A=0,35	
1	8035951	2	Shim, Optional A=0,4	
1	1319543	2	Shim, Optional A=0,45	
1	1319527	2	Shim, Optional A=0,5	
1	1321158	2	Shim, Optional A=0,55	
1	1319526	2	Shim, Optional A=0,6	
1	1319532	2	Shim, Optional A=0,65	
1	1319533	2	Shim, Optional A=0,7	
1	1319534	2	Shim, Optional A=0,75	
1	1319525	2	Shim, Optional A=0,8	
1	1319535	2	Shim, Optional A=0,85	
1	1319536	2	Shim, Optional A=0,90	
1	1319537	2	Shim, Optional A=0,95	
1	1319524	2	Shim, Optional A=1,0	
1	1319525	2	Shim, Optional A=1,05	
1	1319538	2	Shim, Optional A=1,10	
1	1319539	2	Shim, Optional A=1,15	
1	1319523	2	Shim, Optional A=1,2	
1	1319540	2	Shim, Optional A=1,25	
1	1319541	2	Shim, Optional A=1,30	
1	1319542	2	Shim, Optional A=1,35	
1	1319522	2	Shim, Optional A=1,4	
1	1319521	2	Shim, Optional A=1,45	
1	1319520	2	Shim, Optional A=1,50	
1	1319519	2	Shim, Optional A=1,55	
1	1319518	2	Shim, Optional A=1,60	
1	1319517	2	Shim, Optional A=1,65	
1	1319510	2	Shim, Optional A=2,0	
1	1321159	2	Shim, Optional A=1,47	
1	8035948	2	Shim, Optional A=1,63	
1	1319515	2	Shim, Optional A=1,75	
1	1319516	2	Shim, Optional A=1,70	
1	1319514	2	Shim, Optional A=1,80	
1	1319513	2	Shim, Optional A=1,85	
1	1319512	2	Shim, Optional A=1,90	
1	1319511	2	Shim, Optional A=1,95	
2	1321165	1	Bearing, Roller	
3	8035944	1	Bearing, Roller	
4	1321161	2	Seal, Shaft	
5	1319425	2	O-Ring	
6	1319496	16	Pin	
7	1319497	16	Spring, Compression	
8	1319506	2	Plug, Screw	
9	1319432	2	O-Ring	
10	1319505	2	Valve, Vent	

SECTION 1 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
11	1319498	2	Washer	
12	1319504	2	Ring, Snap	
13	1321151	2	Ring, Support	
14	1321162	2	U-Ring	
15	1321163	2	U-Ring	
16	1321152	2	Ring, Support	
17	1319491	12	O-Ring	
18	8035936	1	Housing, Brake - Left Side	
18	8035939	1	Housing, Brake - Right Side	
19	1319432	2	O-Ring	
20	1319431	2	Plug, Screw	
21	10731949	4	Ring, Retaining	
22	1319500	24	Disc, O. Clutch - Optional S=2,0	
22	1319501	24	Disc, O. Clutch - Optional S=2,5	
22	1319502	24	Disc, O. Clutch - Optional S=3,0	
23	1321150	6	Disc, I. Clutch	
24	1321174	2	Carrier, Disc	
25	1319499	2	Ring, Crescent	
26	1321173	16	Piston	

SECTION 1 - DRIVE TRAIN

FIGURE 1-15. REAR AXLE - BRAKE



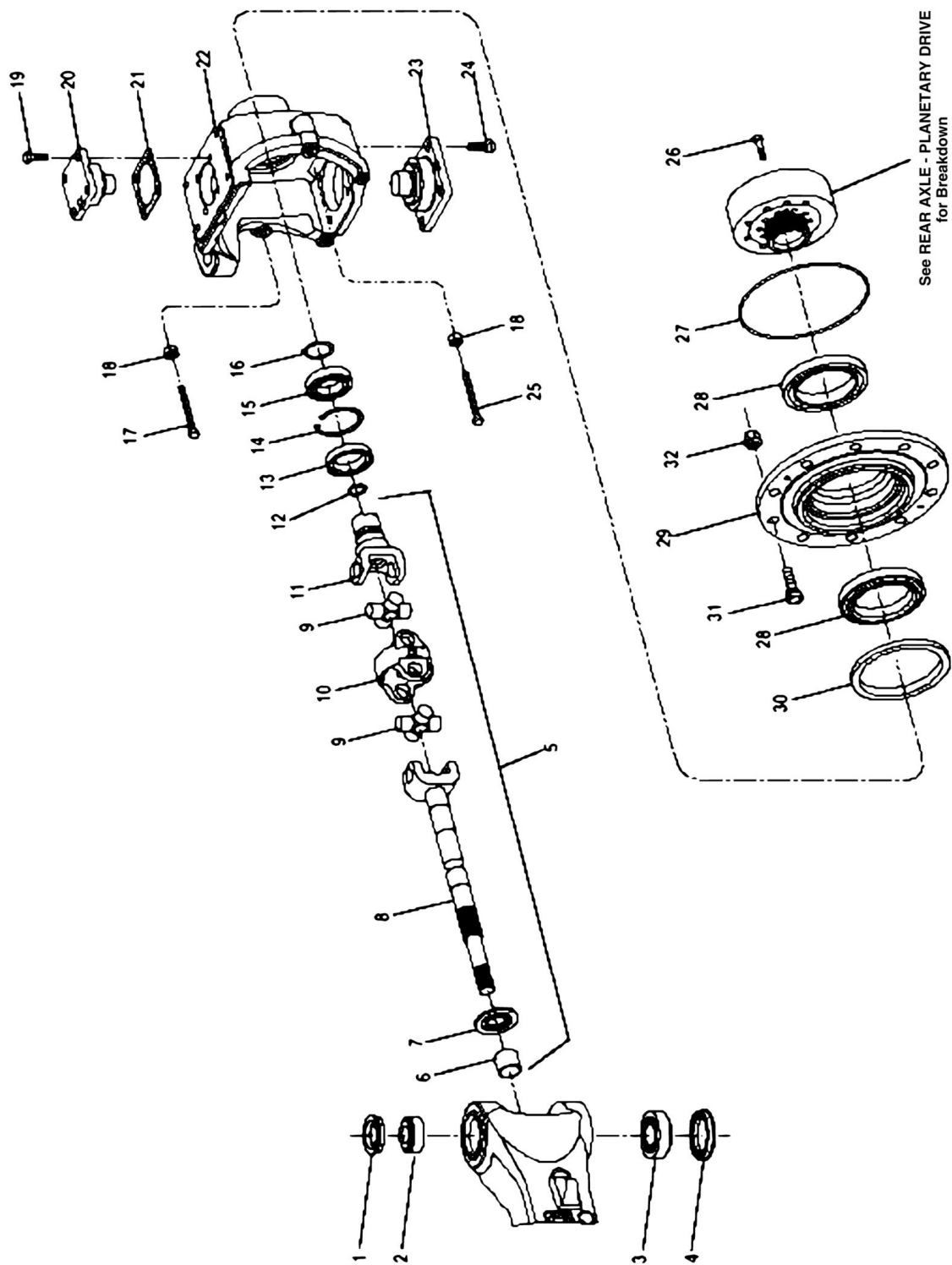
SECTION 1 - DRIVE TRAIN

FIGURE 1-15. REAR AXLE - BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1321172	2	Carrier, Pin	
2	1321178	2	Ring, Retaining	

SECTION 1 - DRIVE TRAIN

FIGURE 1-16. REAR AXLE - JOINT HOUSING



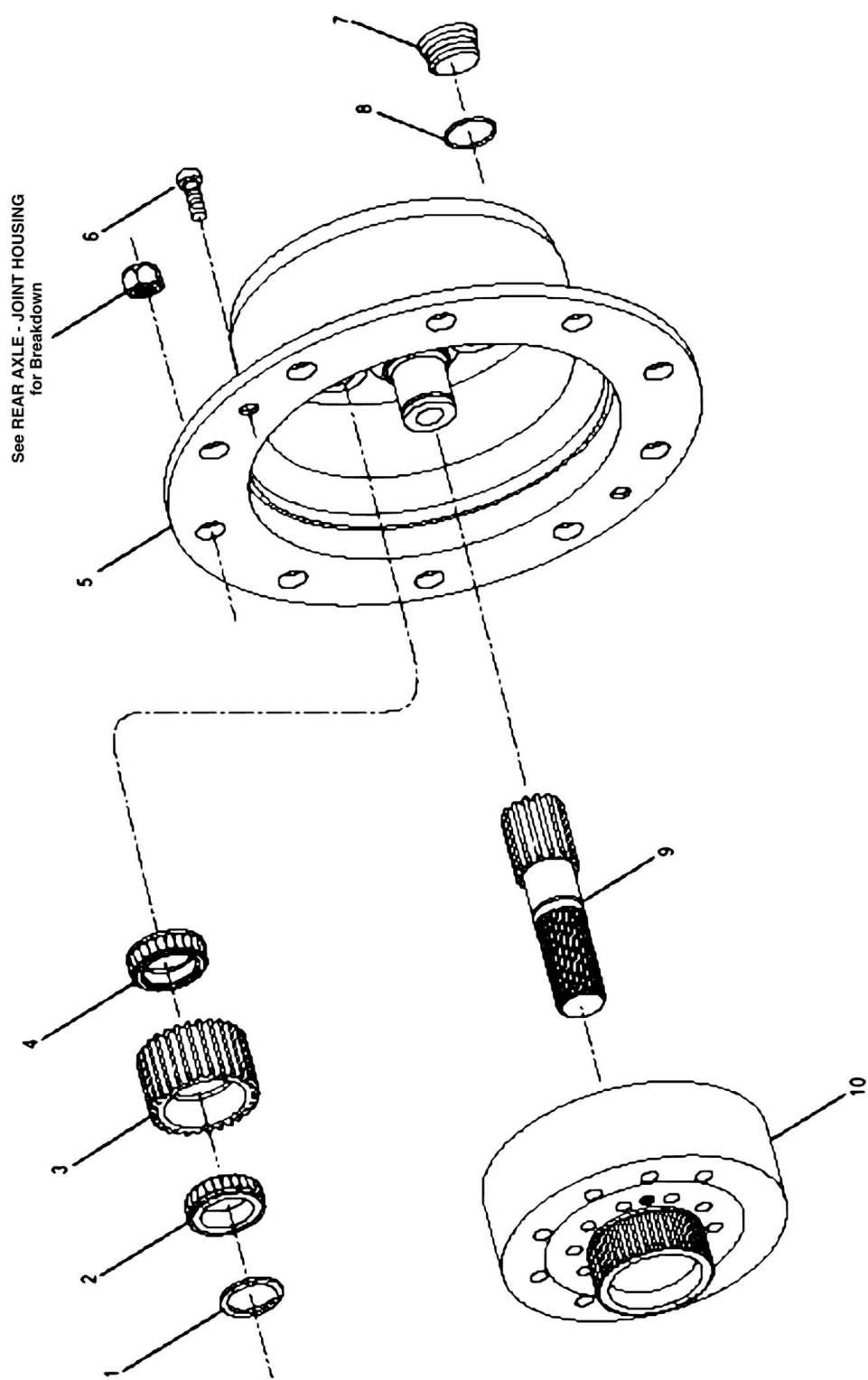
SECTION 1 - DRIVE TRAIN

FIGURE 1-16. REAR AXLE - JOINT HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319446	2	Seal, Shaft	
2	1319444	2	Bearing, Roller	
3	1319445	2	Bearing, Roller	
4	1319447	2	Seal, Shaft	
5	1321176	2	Shaft, D. Universal Coupling (Includes Items 6 thru 11)	
6	8035973	2	Bushing	
7	8035996	2	Sheet, Screen	
8	8035995	2	Fork, Joint Coupling	
9	8035993	4	Cross, Joint	
10	8035992	2	Central Piece	
11	8035994	2	Fork, Joint	
12	1321226	2	Ring, Retaining	
13	1321164	2	Seal, Shaft	
14	1319210	2	Ring, Retaining	
15	1321157	2	Bearing, Ball	
16	80304405	2	Ring, Retaining	
17	1319476	2	Screw, Stop	
18	1319477	4	Nut, Hex	
19	1319463	4	Screw, Hex	
20	1319461	2	Pin, Bearing	
21	1319448	2	Shim, Optional S=0,2	
21	1319449	2	Shim, Optional S=0,3	
21	1319450	2	Shim, Optional S=0,4	
21	1319451	2	Shim, Optional S=0,6	
21	1319452	2	Shim, Optional S=0,8	
21	1319453	2	Shim, Optional S=1,0	
21	1319454	2	Shim, Optional S=1,2	
21	1319455	2	Shim, Optional S=1,4	
21	1319456	2	Shim, Optional S=1,6	
21	1319457	2	Shim, Optional S=1,8	
21	1319458	2	Shim, Optional S=2,0	
21	1319459	2	Shim, Optional S=0,7	
21	1319460	2	Shim, Optional S=0,5	
22	1321245	1	Housing, Joint - Left Side	
22	1321246	1	Housing, Joint - Right Side	
23	1319462	2	Pin, Bearing	
24	1319464	8	Screw, Hex	
25	1319475	2	Screw, Stop	
26	8035997	16	Screw, Hex	
27	1321155	2	O-Ring	
28	1319472	4	Bearing, Roller	
29	1321239	2	Hub	
30	1319471	2	Seal, Shaft	
31	1101056	20	Bolt, Wheel	
32	1319478	20	Nut, Sph Collar (Lug Nut)	

SECTION 1 - DRIVE TRAIN

FIGURE 1-17. REAR AXLE - PLANETARY DRIVE



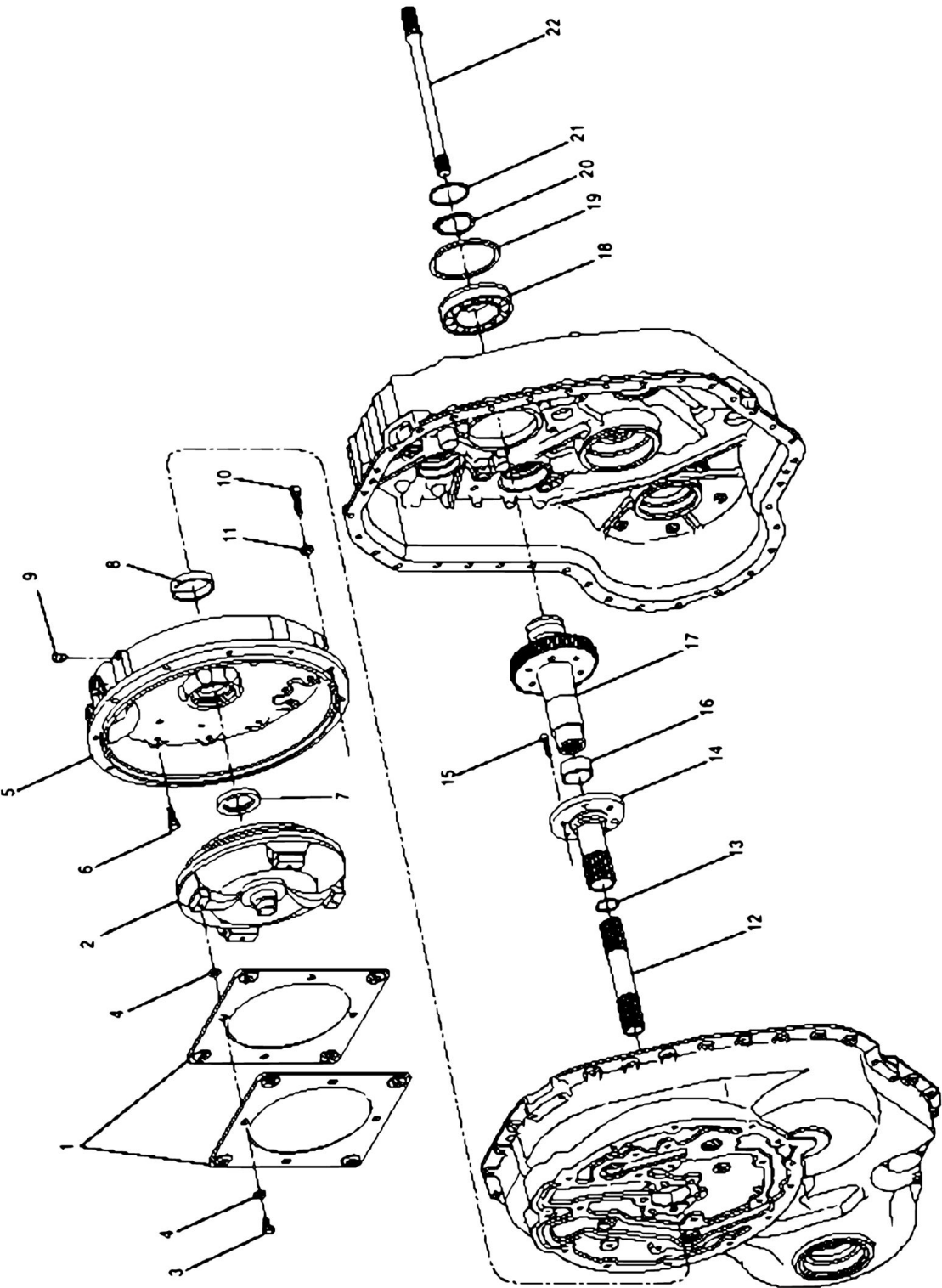
SECTION 1 - DRIVE TRAIN

FIGURE 1-17. REAR AXLE - PLANETARY DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319485	6	Ring, Snap	
2	1319484	6	Ring, Bearing Inner	
3	1321231	6	Gear, Planet	
4	1319483	6	Ring, Bearing Inner	
5	1321238	2	Carrier, Planet	
6	8035977	4	Screw, Cap	
7	1319506	2	Plug, Screw	
8	1319432	2	O-Ring	
9	1321242	2	Shaft, Sun Gear	
10	1321247	2	Gear, Ring	

SECTION 1 - DRIVE TRAIN

FIGURE 1-18. ENGINE CONNECTION AND INPUT SHAFTS



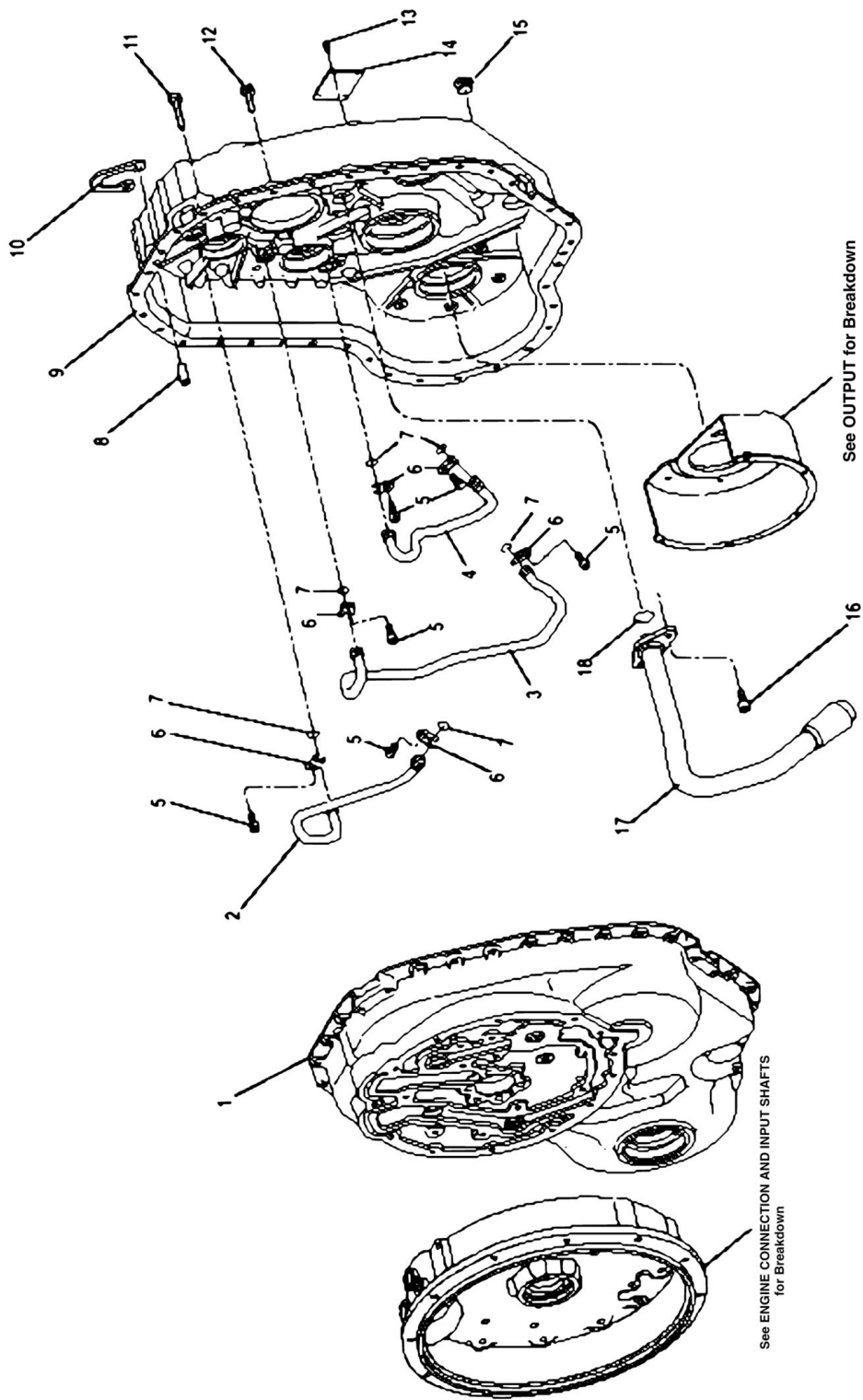
SECTION 1 - DRIVE TRAIN

FIGURE 1-18. ENGINE CONNECTION AND INPUT SHAFTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319229	2	Diaphragm	
2	1319258	1	Converter	
3	7026744	4	HHCS, M10 x 16mm	
4	10731703	8	Washer, Thrust 1,00	
5	1319574	1	Bell, Converter	
6	1319569	23	HHCS, M10 x 30mm	
7	1319576	1	Seal, Shaft	
8	1319575	1	Bushing, Bearing	
9	10731744	1	Breather	
10	8303769	12	HHCS, M10-1,5 x 45mm	
11	8307023	12	Washer, Lock M10	
12	1319236	1	Shaft, Turbine	
13	10731732	1	Ring, Snap 30	
14	1319557	1	Shaft, Stator	
15	1319577	6	SHCS, M10 x 50mm	
16	1319558	1	Bushing, Bearing	
17	1319559	1	Shaft, Input	
18	1319563	1	Bearing, Ball	
19	10731913	1	Ring, Snap 100	
20	80304405	1	Ring, Retaining 55 x 2,00	
21	1319565	1	Ring, Piston 55 x 3,00	
22	1319566	1	Shaft, Central	

SECTION 1 - DRIVE TRAIN

FIGURE 1-19. GEARBOX HOUSING



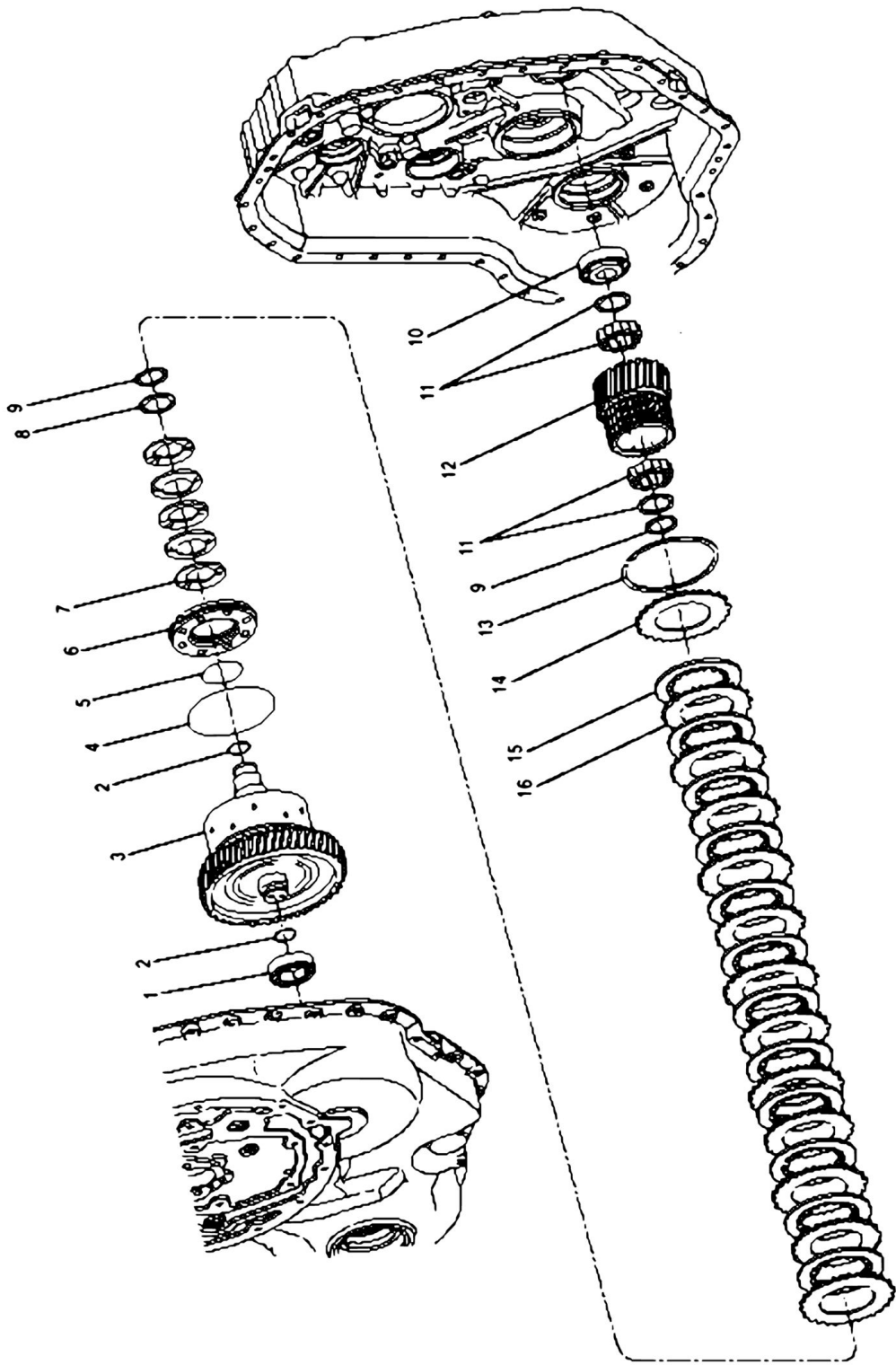
SECTION 1 - DRIVE TRAIN

FIGURE 1-19. GEARBOX HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319567	1	Housing I	
2	1319586	1	Pipe	
3	1319587	1	Pipe	
4	1319588	1	Pipe	
5	1319585	11	SHCS, M8 x 16mm	
6	1319584	6	Plate, Fixing	
7	1319583	6	O-Ring, 14 x 2,00	
8	1319571	2	Pin, Cylindrical M6 x 24	
9	1319568	1	Housing II	
10	1319590	1	Bracket	
11	1319570	6	HHCS, M10 x 50mm	
12	1319569	30	HHCS, M10 x 30mm	
13	1319573	4	Stud, Grooved 3 x 5,00	
14	1319572	1	Plate, Type	
15	1319578	1	Plug, Drain 7/8-14	
16	1319582	2	SHCS, M8 x 20mm	
17	1319580	1	Pipe, Oil Suction	
18	1319581	1	O-Ring, 30 x 3,00	
19	1319576	1	Seal, Shaft	

SECTION 1 - DRIVE TRAIN

FIGURE 1-20. COUPLING GROUP 1



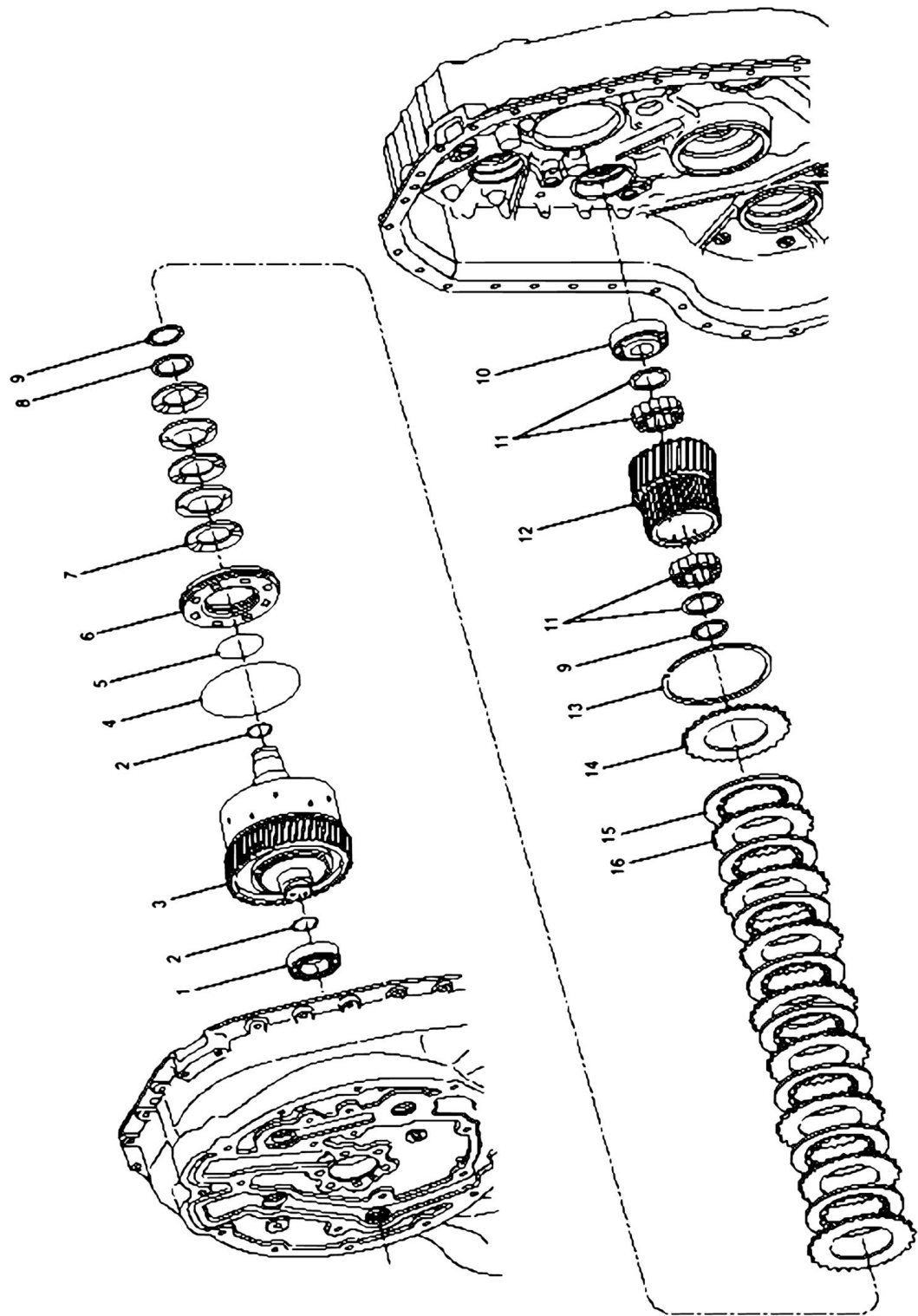
SECTION 1 - DRIVE TRAIN

FIGURE 1-20. COUPLING GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319608	1	Bearing, Roller	
2	1319612	1	Ring, Piston 30 x 2,00	
3	1319591	1	Coupling	
4	1319594	1	O-Ring, 115 x 3,00	
5	1319593	1	O-Ring, 52 x 3,00	
6	1319592	1	Piston	
7	1319595	5	Spring, Cup	
8	1319596	1	Shim, 2,00	
9	10731845	2	Ring, Retaining 40 x 1,75	
10	1319609	1	Bearing, Roller	
11	1319605	2	Cage, Roller	
12	1319607	1	Carrier, Disc	
13	1319600	1	Ring, Snap 4,00	
13	1319601	1	Ring, Snap 3,50	
13	1319602	1	Ring, Snap 3,00	
13	1319603	1	Ring, Snap 2,50	
13	1319604	1	Ring, Snap 2,00	
14	1319599	1	Shim, End	
15	1319597	12	Disc, Lin. Clutch	
16	1319598	12	Disc, O. Clutch	

SECTION 1 - DRIVE TRAIN

FIGURE 1-21. COUPLING GROUP 2



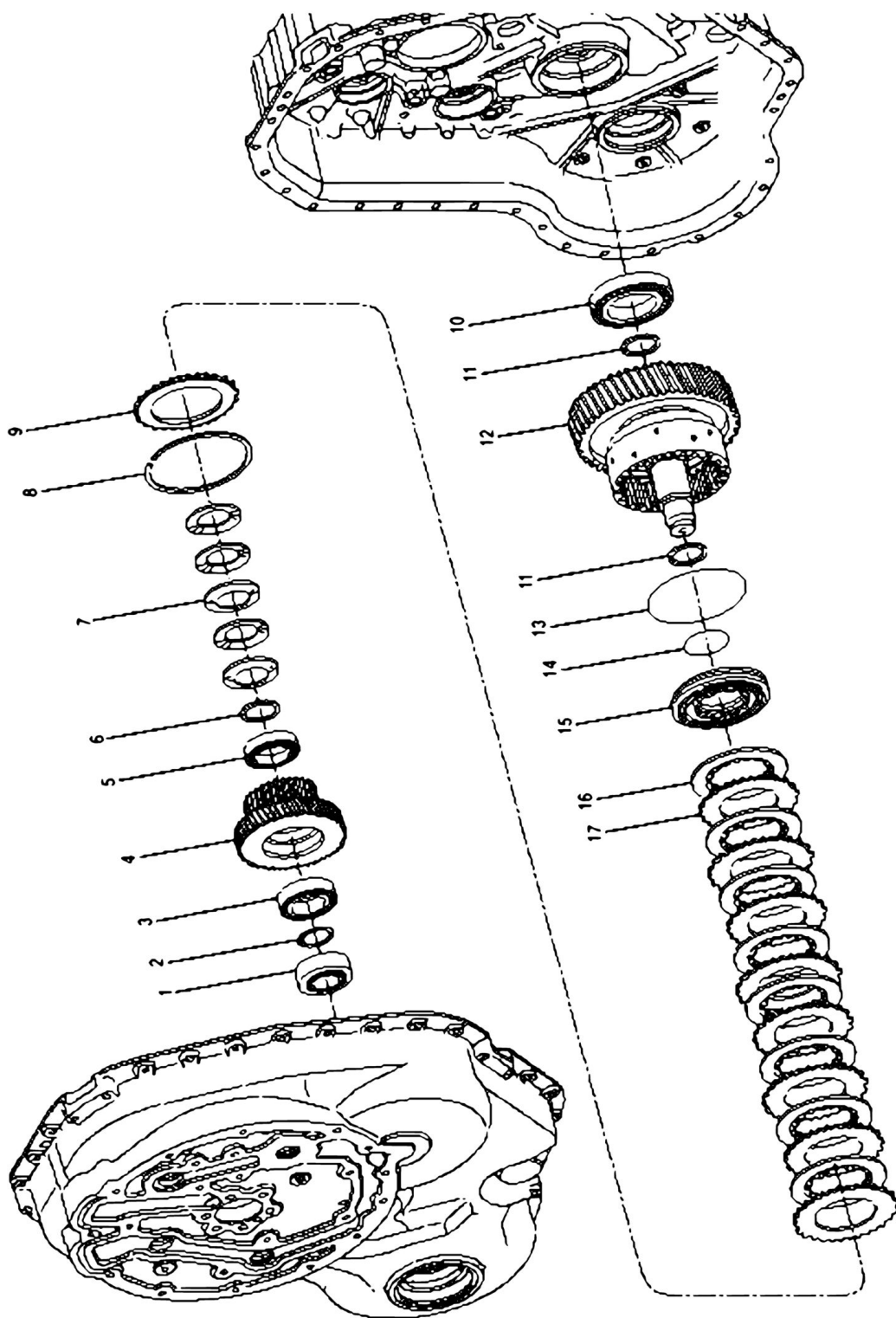
SECTION 1 - DRIVE TRAIN

FIGURE 1-21. COUPLING GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	Bearing, Roller	
2	1319612	2	Ring, Piston 30 x 2,00	
3	1319613	1	Coupling	
4	1319594	1	O-Ring 115 x 3,00	
5	1319593	1	O-Ring 52 x 3,00	
6	1319592	1	Piston	
7	1319595	5	Spring, Cup	
8	1319596	1	Shim, 2,00	
9	10731845	2	Ring, Retaining 40 x 1,75	
10	1319609	1	Bearing, Roller	
11	1319605	2	Cage, Roller	
12	1319614	1	Carrier, Disc	
13	1319600	1	Ring, Snap 4,00	
13	1319601	1	Ring, Snap 3,50	
13	1319602	1	Ring, Snap 3,00	
13	1319603	1	Ring, Snap 2,50	
13	1319604	1	Ring, Snap 2,00	
14	1319599	1	Shim End	
15	1319597	8	Disc, Lin. Clutch	
16	1319598	8	Disc, O. Clutch	

SECTION 1 - DRIVE TRAIN

FIGURE 1-22. COUPLING GROUP 3



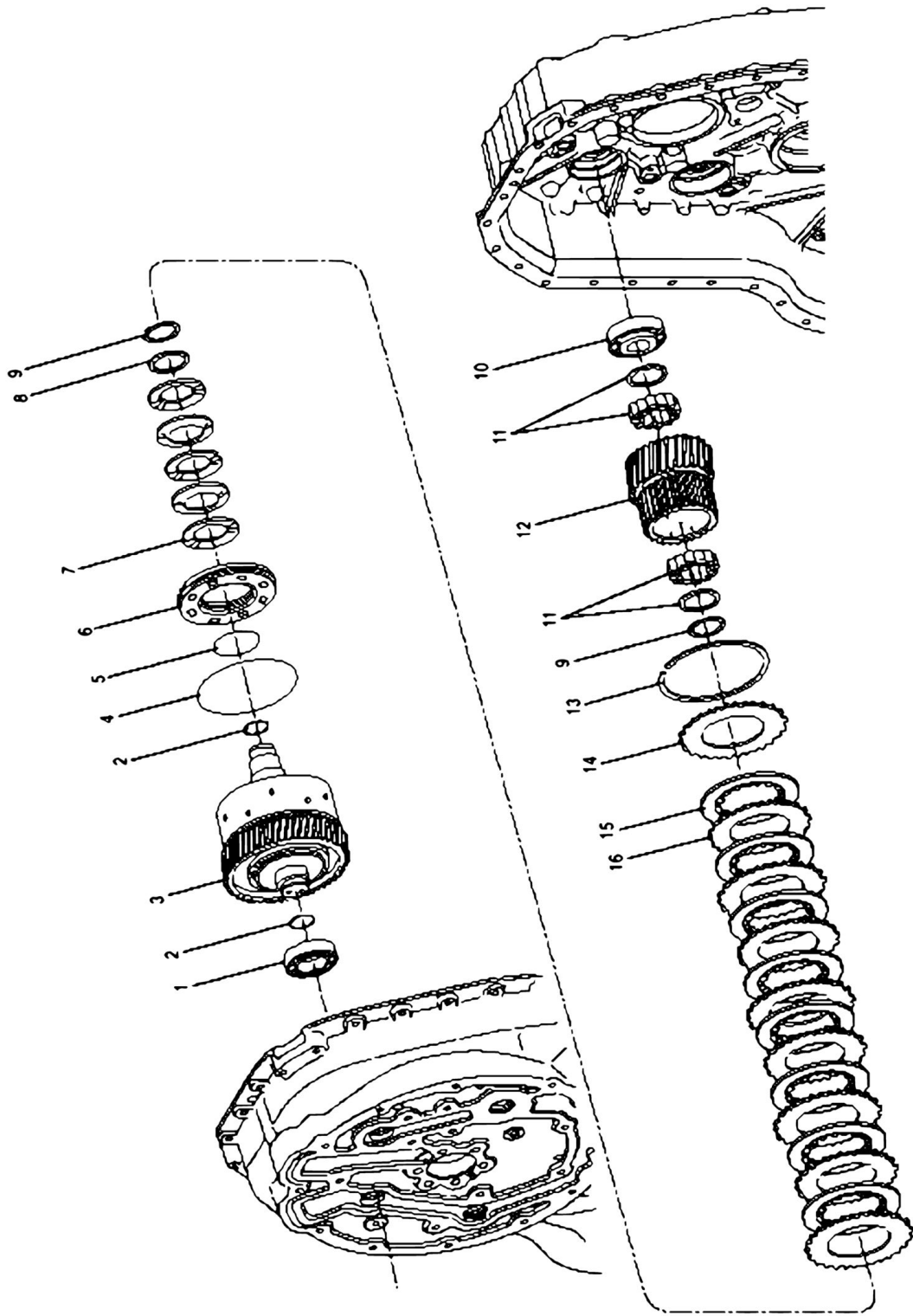
SECTION 1 - DRIVE TRAIN

FIGURE 1-22. COUPLING GROUP 3

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319606	1	Bearing, Roller	
2	1319621	1	Ring, Retaining 3,20	
2	1319622	1	Ring, Retaining 3,10	
2	1319623	1	Ring, Retaining 3,00	
2	1319624	1	Ring, Retaining 2,90	
2	1319625	1	Ring, Retaining 2,80	
2	1319626	1	Ring, Retaining 2,70	
2	1319627	1	Ring, Retaining 2,60	
2	1319628	1	Ring, Retaining 38 x 2,50	
2	1319629	1	Ring, Retaining 38 x 2,40	
2	1319630	1	Ring, Retaining 38 x 2,30	
2	1319631	1	Ring, Retaining 38 x 2,20	
2	1319632	1	Ring, Retaining 38 x 2,10	
3	1319620	1	Bearing, Roller	
4	1319619	1	Carrier, Disc	
5	1319618	1	Bearing, Roller	
6	1319617	1	Shim, Support	
7	1319595	5	Spring, Cup	
8	1319600	1	Ring, Snap 4,00	
8	1319601	1	Ring, Snap 3,50	
8	1319602	1	Ring, Snap 3,00	
8	1319603	1	Ring, Snap 2,50	
8	1319604	1	Ring, Snap 2,00	
9	1319599	1	Shim, End	
10	1319633	1	Bearing, Roller	
11	1319612	2	Ring, Piston 30 x 2,00	
12	1319616	1	Coupling	
13	1319594	1	O-Ring, 115 x 3,00	
14	1319593	1	O-Ring, 52 x 3,00	
15	1319592	1	Piston	
16	1319597	8	Disc, Lin. Clutch	
17	1319598	8	Disc, O. Clutch	

SECTION 1 - DRIVE TRAIN

FIGURE 1-23. COUPLING GROUP 4



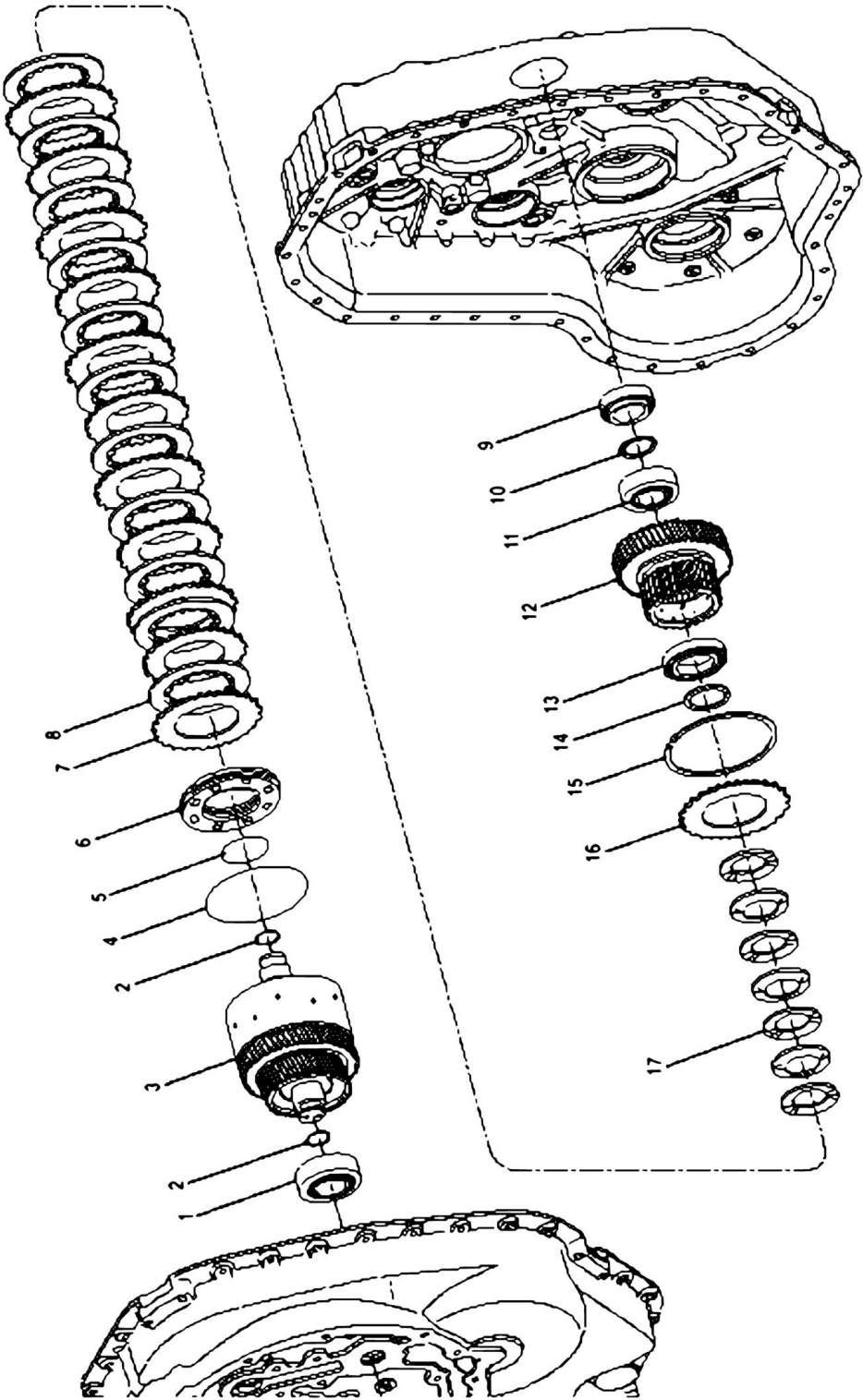
SECTION 1 - DRIVE TRAIN

FIGURE 1-23. COUPLING GROUP 4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	Bearing, Roller	
2	1319612	2	Ring, Piston 30 x 2,00	
3	1319634	1	Coupling	
4	1319594	1	O-Ring 115 x 3,00	
5	1319593	1	O-Ring 52 x 3,00	
6	1319592	1	Piston	
7	1319595	5	Spring, Cup	
8	1319596	1	Shim, 2,00	
9	10731845	2	Ring, Retaining 40 x 1,75	
10	1319636	1	Bearing, Roller	
11	1319605	1	Cage, Roller	
12	1319635	1	Carrier, Disc	
13	1319600	1	Ring, Snap 4,00	
13	1319601	1	Ring, Snap 3,50	
13	1319602	1	Ring, Snap 3,00	
13	1319603	1	Ring, Snap 2,50	
13	1319604	1	Ring, Snap 2,00	
14	1319599	1	Shim. End	
15	1319597	8	Disc, Lin. Clutch	
16	1319598	8	Disc, O. Clutch	

SECTION 1 - DRIVE TRAIN

FIGURE 1-24. REVERSING GEAR GROUP 1



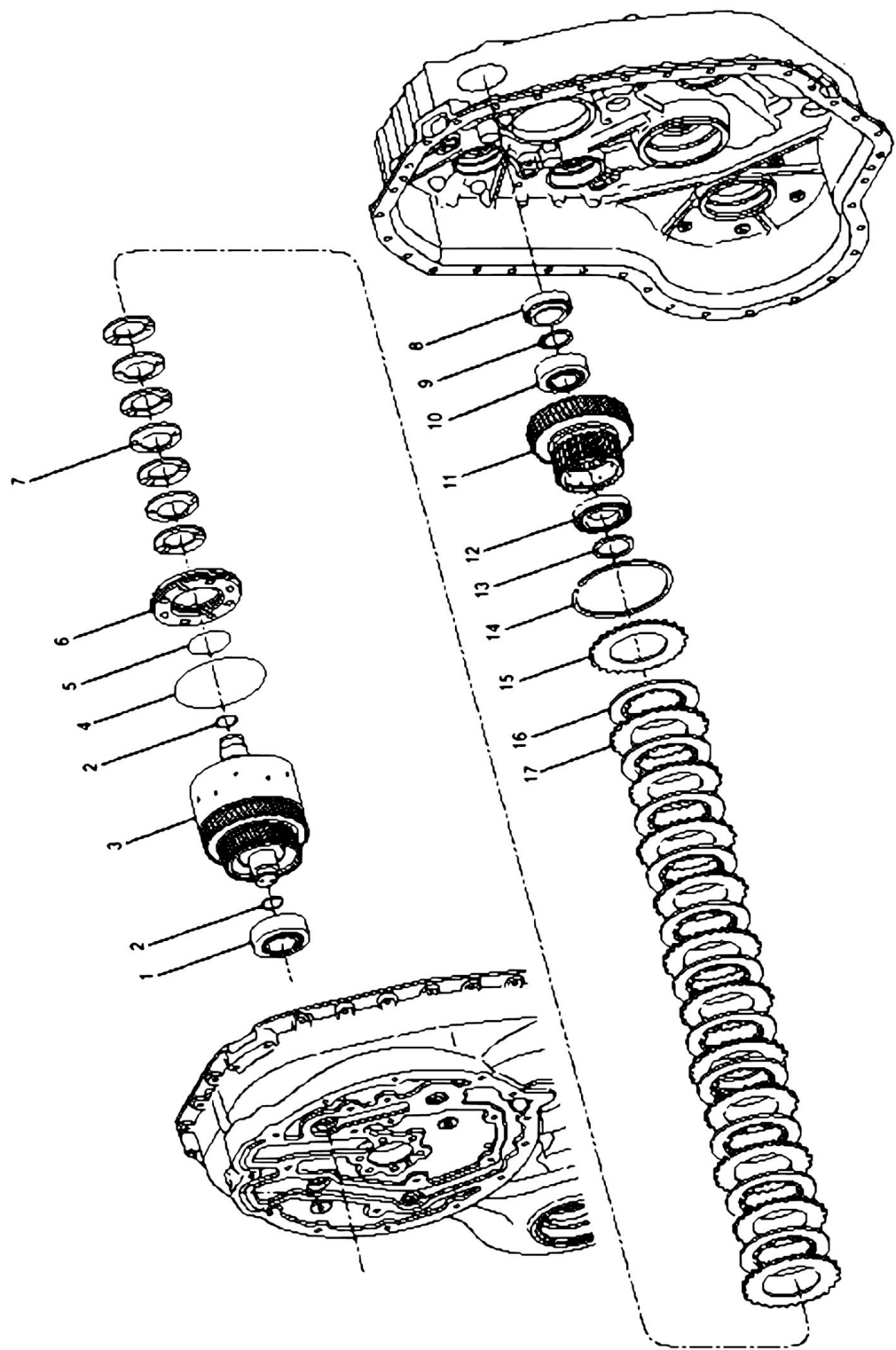
SECTION 1 - DRIVE TRAIN

FIGURE 1-24. REVERSING GEAR GROUP 1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319615	1	Bearing, Roller	
2	1319612	1	Ring, Piston 30 x 2,00	
3	1319637	1	Coupling	
4	1319594	1	O-Ring 115 x 3,00	
5	1319593	1	O-Ring 52 x 3,00	
6	1319592	1	Piston	
7	1319597	11	Disc, Lin. Clutch	
8	1319598	11	Disc, O. Clutch	
9	1319636	1	Bearing, Roller	
10	1319621	1	Ring, Retaining 3,20	
10	1319622	1	Ring, Retaining 3,10	
10	1319623	1	Ring, Retaining 3,00	
10	1319624	1	Ring, Retaining 2,90	
10	1319625	1	Ring, Retaining 2,80	
10	1319626	1	Ring, Retaining 2,70	
10	1319627	1	Ring, Retaining 2,60	
10	1319628	1	Ring, Retaining 2,50	
10	1319629	1	Ring, Retaining 2,40	
10	1319630	1	Ring, Retaining 2,30	
10	1319631	1	Ring, Retaining 2,20	
10	1319632	1	Ring, Retaining 2,10	
11	1319620	1	Bearing, Roller	
12	1319638	1	Carrier, Disc	
13	1319618	1	Bearing, Roller	
14	1319617	1	Shim, Support	
15	1319600	1	Ring, Snap 4,00	
15	1319601	1	Ring, Snap 3,50	
15	1319602	1	Ring, Snap 3,00	
15	1319603	1	Ring, Snap 2,50	
15	1319604	1	Ring, Snap 2,00	
16	1319599	1	Shim, End	
17	1319595	7	Spring, Cup	

SECTION 1 - DRIVE TRAIN

FIGURE 1-25. REVERSING GEAR GROUP 2



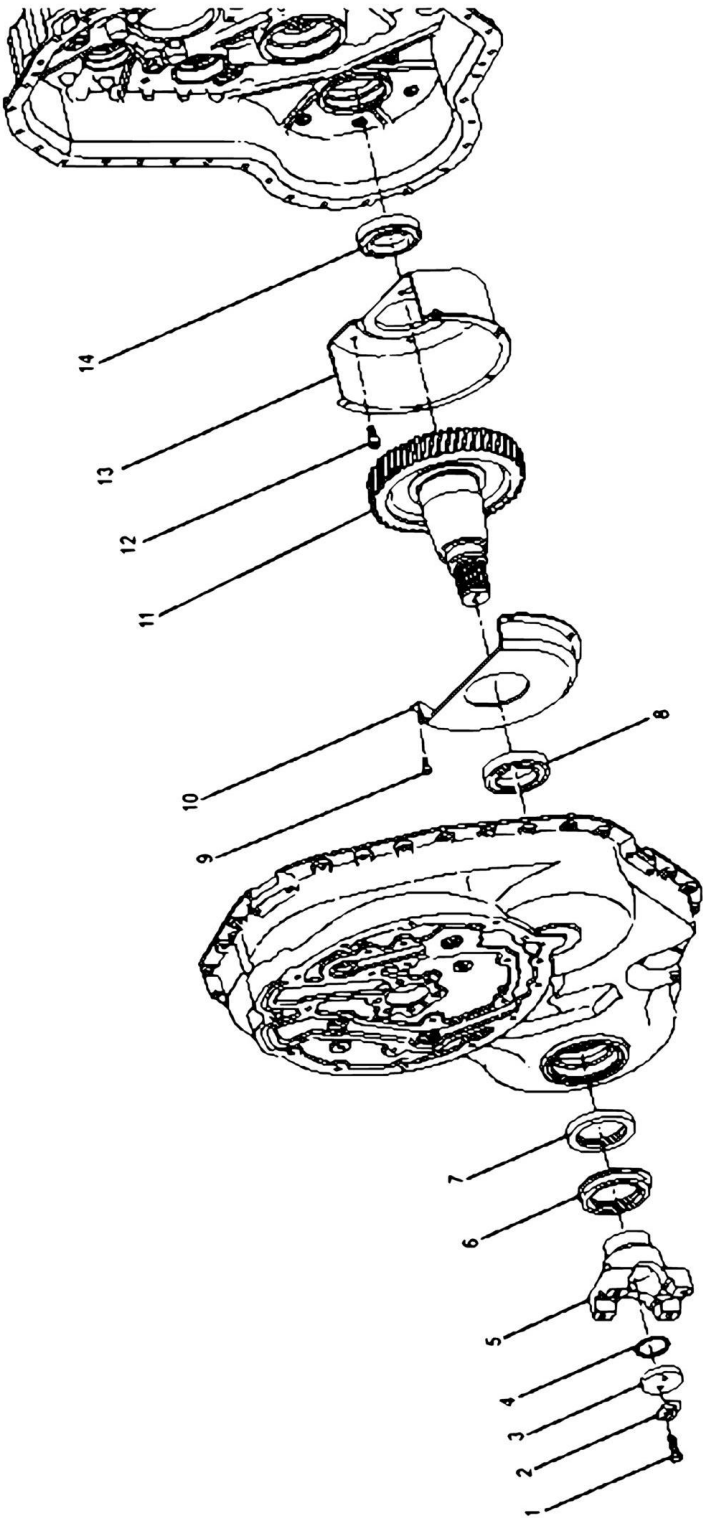
SECTION 1 - DRIVE TRAIN

FIGURE 1-25. REVERSING GEAR GROUP 2

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319608	1	Bearing, Roller	
2	1319612	1	Ring, Piston 30 x 2,00	
3	1319639	1	Coupling	
4	1319594	1	O-Ring 115 x 3,00	
5	1319593	1	O-Ring 52 x 3,00	
6	1319592	1	Piston	
7	1319595	7	Spring, Cup	
8	1319636	1	Bearing, Roller	
9	1319621	1	Ring, Retaining 3,20	
9	1319622	1	Ring, Retaining 3,10	
9	1319623	1	Ring, Retaining 3,00	
9	1319624	1	Ring, Retaining 2,90	
9	1319625	1	Ring, Retaining 2,80	
9	1319626	1	Ring, Retaining 2,70	
9	1319627	1	Ring, Retaining 2,60	
9	1319628	1	Ring, Retaining 2,50	
9	1319629	1	Ring, Retaining 2,40	
9	1319630	1	Ring, Retaining 2,30	
9	1319631	1	Ring, Retaining 2,20	
9	1319632	1	Ring, Retaining 2,10	
10	1319620	1	Bearing, Roller	
11	1319638	1	Carrier, Disc	
12	1319618	1	Bearing, Roller	
13	1319617	1	Shim, Support	
14	1319600	1	Ring, Snap 4,00	
14	1319601	1	Ring, Snap 3,50	
14	1319602	1	Ring, Snap 3,00	
14	1319603	1	Ring, Snap 2,50	
14	1319604	1	Ring, Snap 2,00	
15	1319599	1	Shim, End	
16	1319597	11	Disc, Lin. Clutch	
17	1319598	11	Disc, O. Clutch	

SECTION 1 - DRIVE TRAIN

FIGURE 1-26. OUTPUT



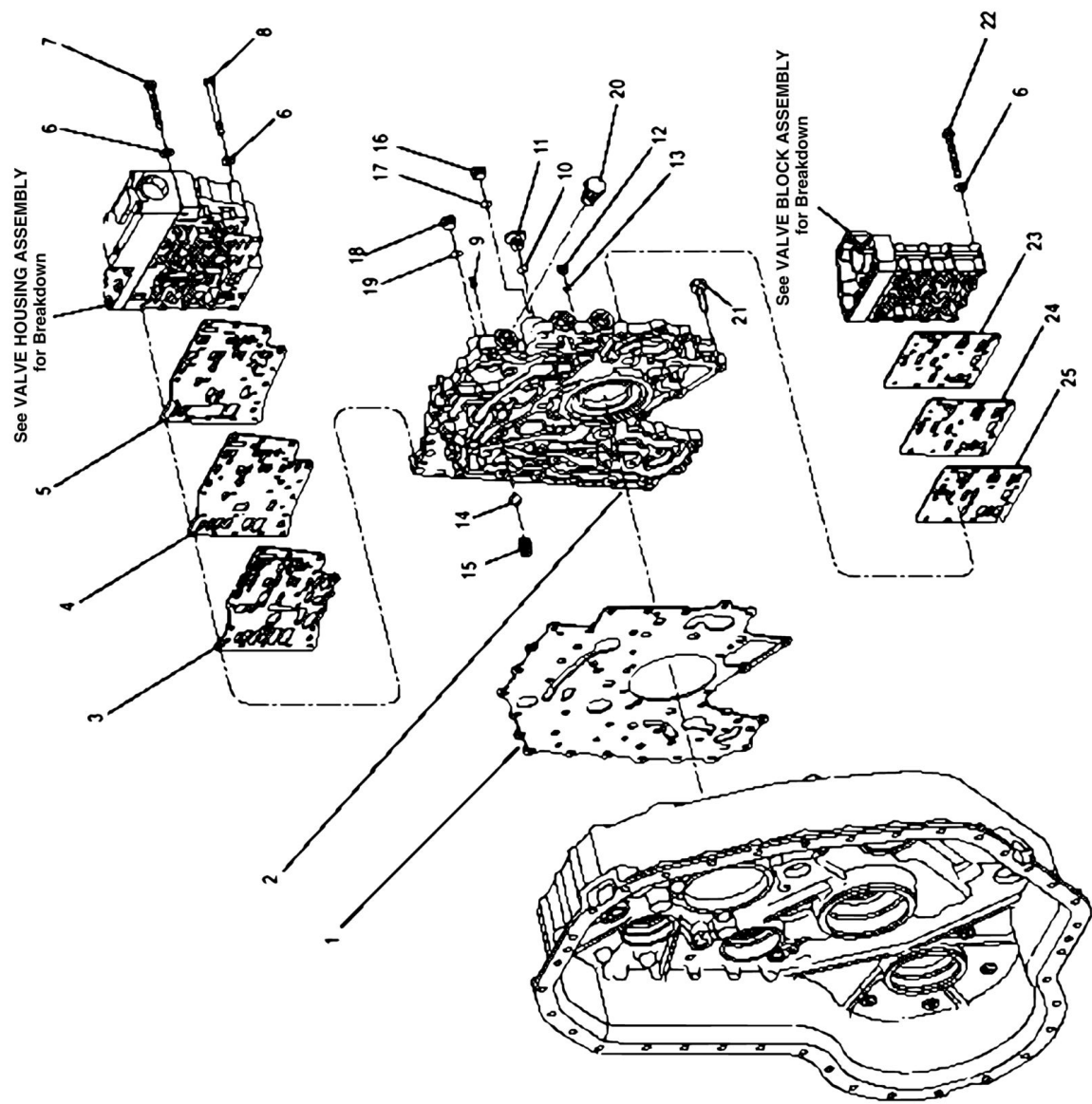
SECTION 1 - DRIVE TRAIN

FIGURE 1-26. OUTPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	10731959	2	HHCS, M8 x 25mm	
2	1319649	1	Washer, Tab	
3	1319648	1	Washer, 10,00	
4	10839156	1	O-ring 38 x 4.00	
5	1319642	1	Flange, Output	
6	1319647	1	Screen, Sheet	
7	1319641	1	Seal, Shaft	
8	1319643	1	Bearing, Roller	
9	1319646	5	HHCS, M6 x 10mm	
10	1319645	1	Sheet, Screen	
11	1319640	1	Shaft	
12	1319585	10	SHCS, M6 x 16mm	
13	1319589	1	Sheet, Screen	
14	1319644	1	Bearing, Roller	

SECTION 1 - DRIVE TRAIN

FIGURE 1-27. CONTROL UNIT



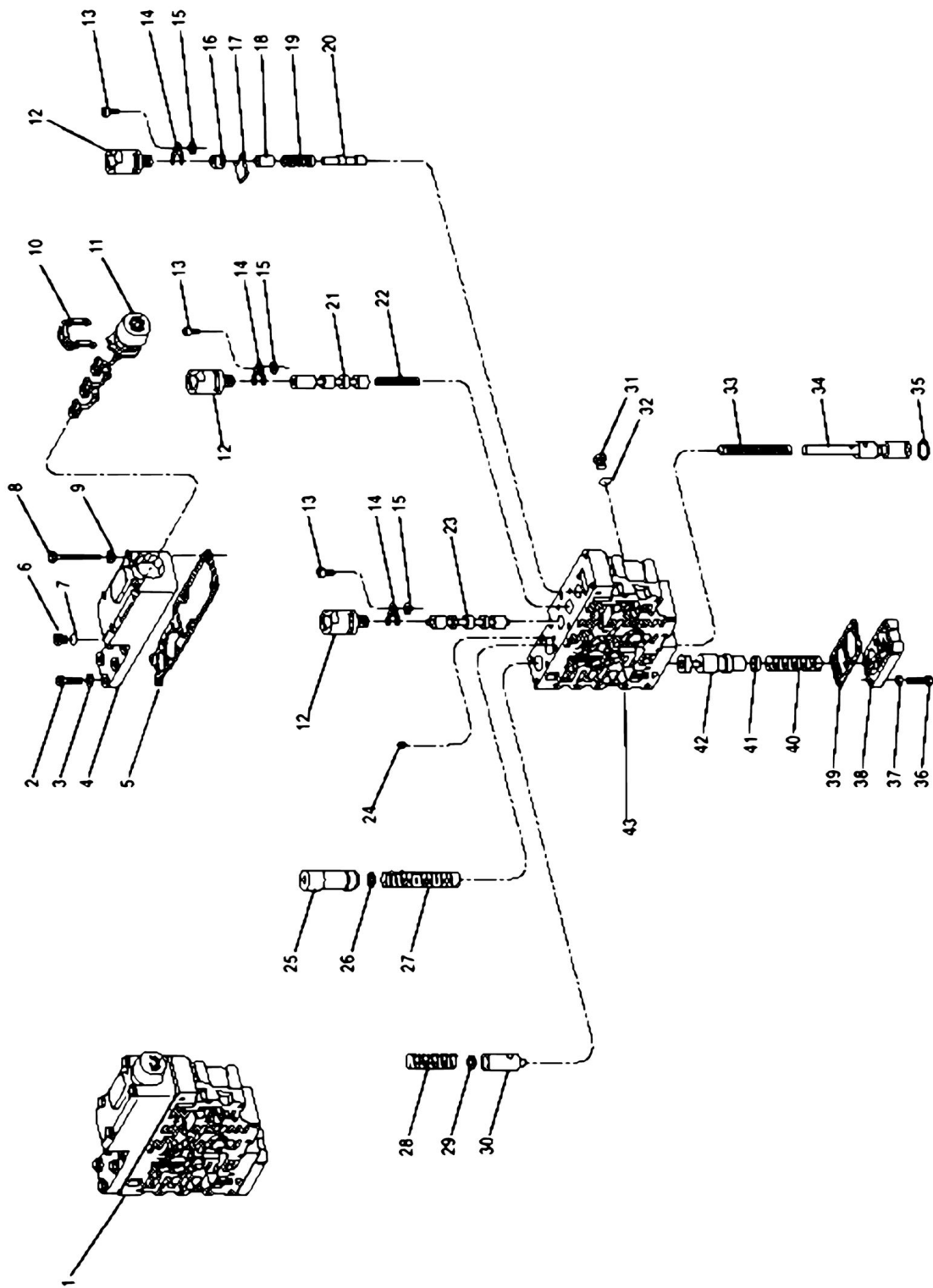
SECTION 1 - DRIVE TRAIN

FIGURE 1-27. CONTROL UNIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319650	1	Gasket	
2	1319651	1	Plate, Duct	
3	1319653	1	Gasket	
4	1319654	1	Interm, Sheet	
5	1319655	1	Gasket	
6	1319661	38	Washer 6,4	
7	1319660	4	HHCS, M6 x 75mm	
8	1319662	19	HHCS, M6 x 65mm	
9	1319652	1	Orifice	
10	1319665	1	O-Ring, 10,52 x 1,83	
11	1319664	1	Plug, Screw 1/2in-20 UNF	
12	1319670	1	Plug, Screw M10 x 1mm	
13	10731709	1	O-Ring, 8 x 1,5	
14	10732071	1	Ball	
15	10732072	1	Spring, Compression	
16	1319668	1	Plug, Screw 3/4in-16 UNF	
17	1319669	1	O-Ring, 16,36 x 2,21	
18	1319666	1	Plug, Screw 9/16in-18 UNF	
19	1319667	1	O-Ring 11,89 x 1,98	
20	1319663	3	Plug	
21	1319659	43	Screw, Torx M8 x 30	
22	1319494	15	HHCS, M6 x 55mm	
23	7029720	1	Gasket	
24	1319657	1	Interm, Sheet	
25	7029720	1	Gasket	

SECTION 1 - DRIVE TRAIN

FIGURE 1-28. VALVE HOUSING ASSEMBLY



SECTION 1 - DRIVE TRAIN

FIGURE 1-28. VALVE HOUSING ASSEMBLY

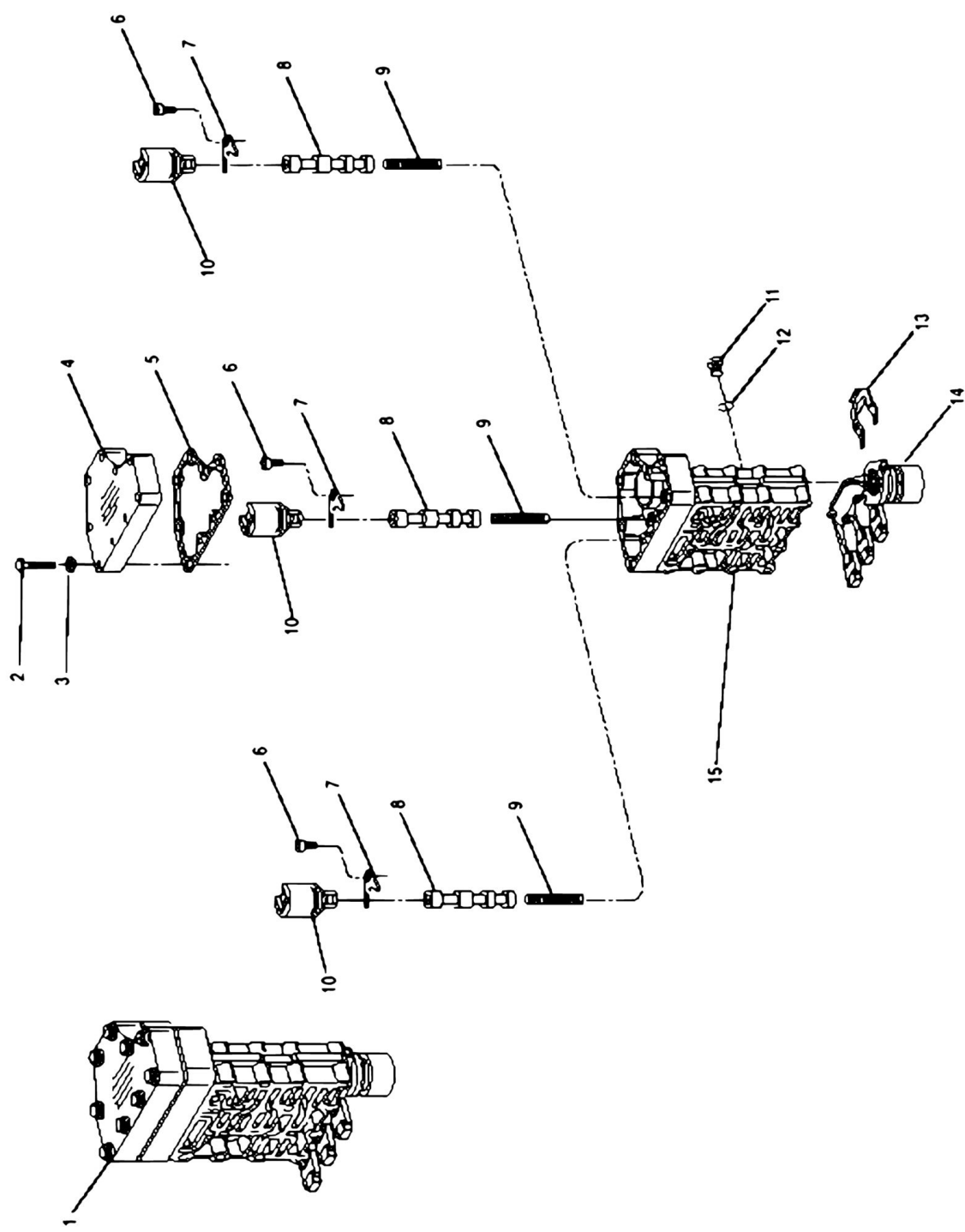
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319716	1	Valve Housing Assembly - Complete (Includes Items 2 thru 43)	
2	1319693	6	HHCS, M6 x 25mm	
3	1319661	6	Washer, 6,4	
4	1319706	1	Cover	
5	1319705	1	Gasket	
6	1319670	1	Plug, Screw M10 x 1	
7	10731709	1	O-Ring, 8 x 1,5	
8	1319708	4	HHCS, M6 x 60mm	
9	1319661	4	Washer, 6,4	
10	1319707	1	Clamp, Retaining	
11	1319704	1	Harness, Wiring	
12	1319702	3	Valve, Solenoid	
13	1319703	3	HHCS, M5 x 12mm	
14	10732063	3	Plate, Fixing	
15	10732064	3	Washer, 2,00	
16	1319700	1	Plug	
17	1319701	1	Plate, Fixing	
18	1319699	1	Sleeve, Spacer	
19	1319698	1	Spring, Compression	
20	1319697	1	Piston	
21	1319695	1	Piston	
22	1319696	1	Spring, Compression	
23	1319694	1	Valve	
24	1319652	1	Orifice	
25	1319690	1	Piston	
26	1319685	1	Washer, 2,00	
26	1319686	1	Washer, 1,00	
26	1319687	1	Washer, 0,50	
26	1319688	1	Washer, 0,30	
26	1319689	1	Washer, 0,20	
27	1319683	1	Spring, Compression	
28	1319673	1	Spring, Compression	
29	10732029	1	Ring, Shim 10 x 16 x 1	
30	1319672	1	Piston	
31	1319670	1	Plug, Screw M10 x 1	
32	10731709	1	O-Ring, 8 x 1,5	
33	1319684	1	Spring, Compression	
34	1319681	1	Piston, Control	
35	1319682	1	Washer, Lock 12,0	
36	1319693	6	HHCS, M6 x 25mm	
37	1319661	6	Washer, 6,4	
38	1319692	1	Cover	
39	1319691	1	Gasket	
40	1319680	1	Spring, Compression	
41	1319675	1	Ring, Spacer 3,60	
41	1319676	1	Ring, Spacer 3,20	
41	1319677	1	Ring, Spacer 2,80	
41	1319678	1	Ring, Spacer 2,40	
41	1319679	1	Ring, Spacer 2,00	
42	1319674	1	Piston	

SECTION 1 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	1319671	1	Housing, Valve	

SECTION 1 - DRIVE TRAIN

FIGURE 1-29. VALVE BLOCK ASSEMBLY



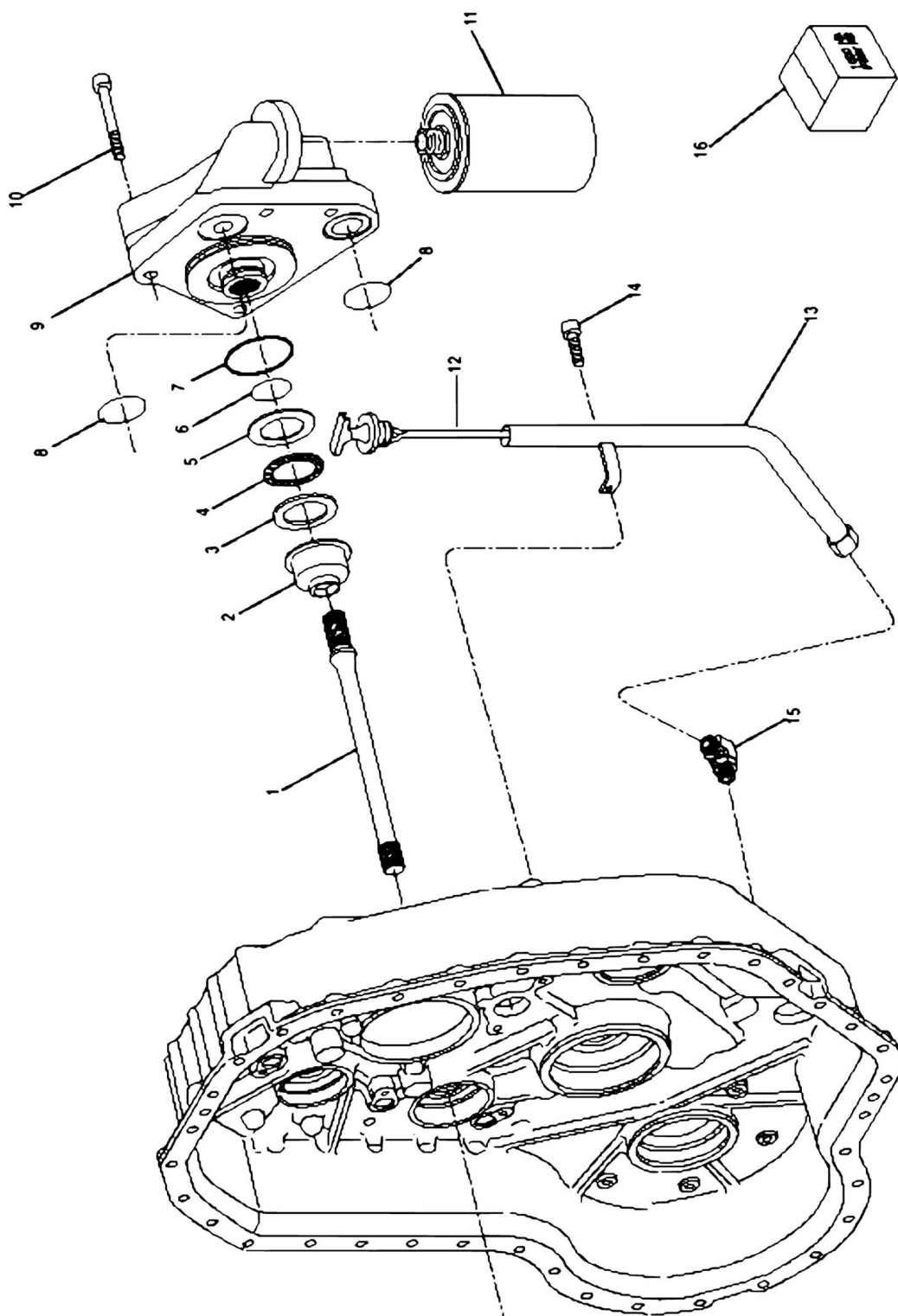
SECTION 1 - DRIVE TRAIN

FIGURE 1-29. VALVE BLOCK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319717	1	Valve Block Assembly - Complete (Includes Items 2 thru 15)	
2	1319714	9	HHCS, M5 x 32mm	
3	1319715	9	Washer, 5,3	
4	1319713	1	Cover	
5	1319712	1	Gasket	
6	1319703	3	SHCS, M5 x 12mm	
7	10732063	3	Plate, Fixing	
8	1319710	3	Piston	
9	1319696	3	Spring, Compression	
10	1319702	3	Valve, Solenoid	
11	1319670	3	Plug, Screw M10 x 1	
12	10731709	3	O-Ring, 8 x 1,5	
13	1319707	1	Clamp, Retaining	
14	1319711	1	Harness, Wiring	
15	1319709	1	Block, Valve	

SECTION 1 - DRIVE TRAIN

FIGURE 1-30. OIL PUMP AND FILTER



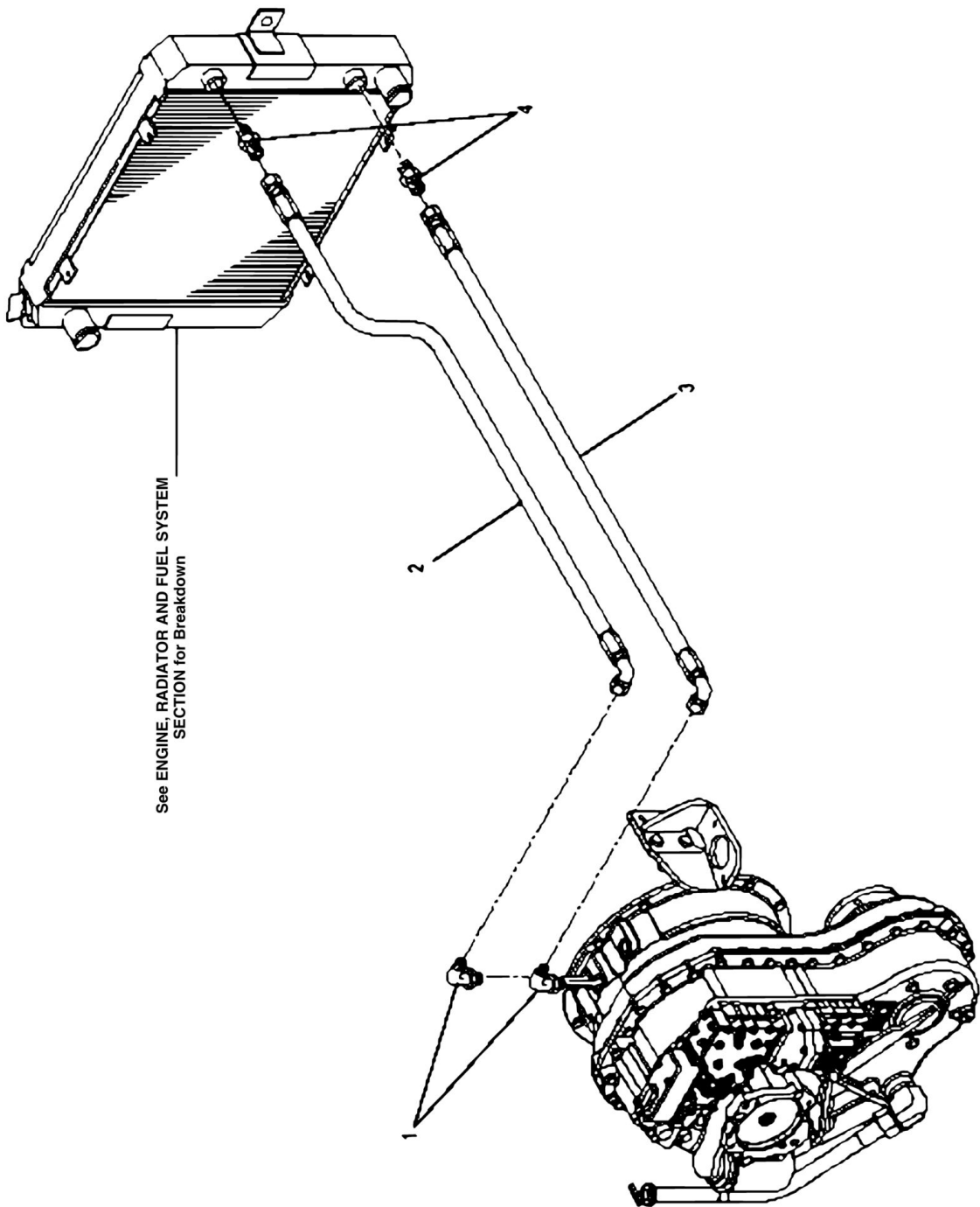
SECTION 1 - DRIVE TRAIN

FIGURE 1-30. OIL PUMP AND FILTER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319566	1	Shaft, Central	
2	1319723	1	Bushing, Spacer	
3	1319722	1	Disc, Angle	
4	1319721	1	Cage, Axial Needle	
5	1319720	1	Washer, Axial 40 x 60 x 1	
6	1319724	1	O-Ring, 36 x 2,5	
7	8036250	1	O-Ring	
8	1319719	2	O-Ring, 40,95 x 2,62	
9	1319718	1	Pump	
10	1319725	4	HHCS, M12 x 115mm	
11	1319726	1	Filter, Transmission	
12	8036003	1	Dipstick	
13	8036002	1	Tube, Dipstick	
14	8036005	1	Screw, Cylindrical	
15	8036004	1	Fitting	
		Ref	KITS	
16	7139238		1000 Hour Filter Kit (Includes 6 Filters: Engine Oil Filter, Fuel Filter, Both Air Filters, Transmission Oil Filter and Hydraulic Oil Filter)	

SECTION 1 - DRIVE TRAIN

FIGURE 1-31. TRANSMISSION OIL COOLER ASSEMBLY



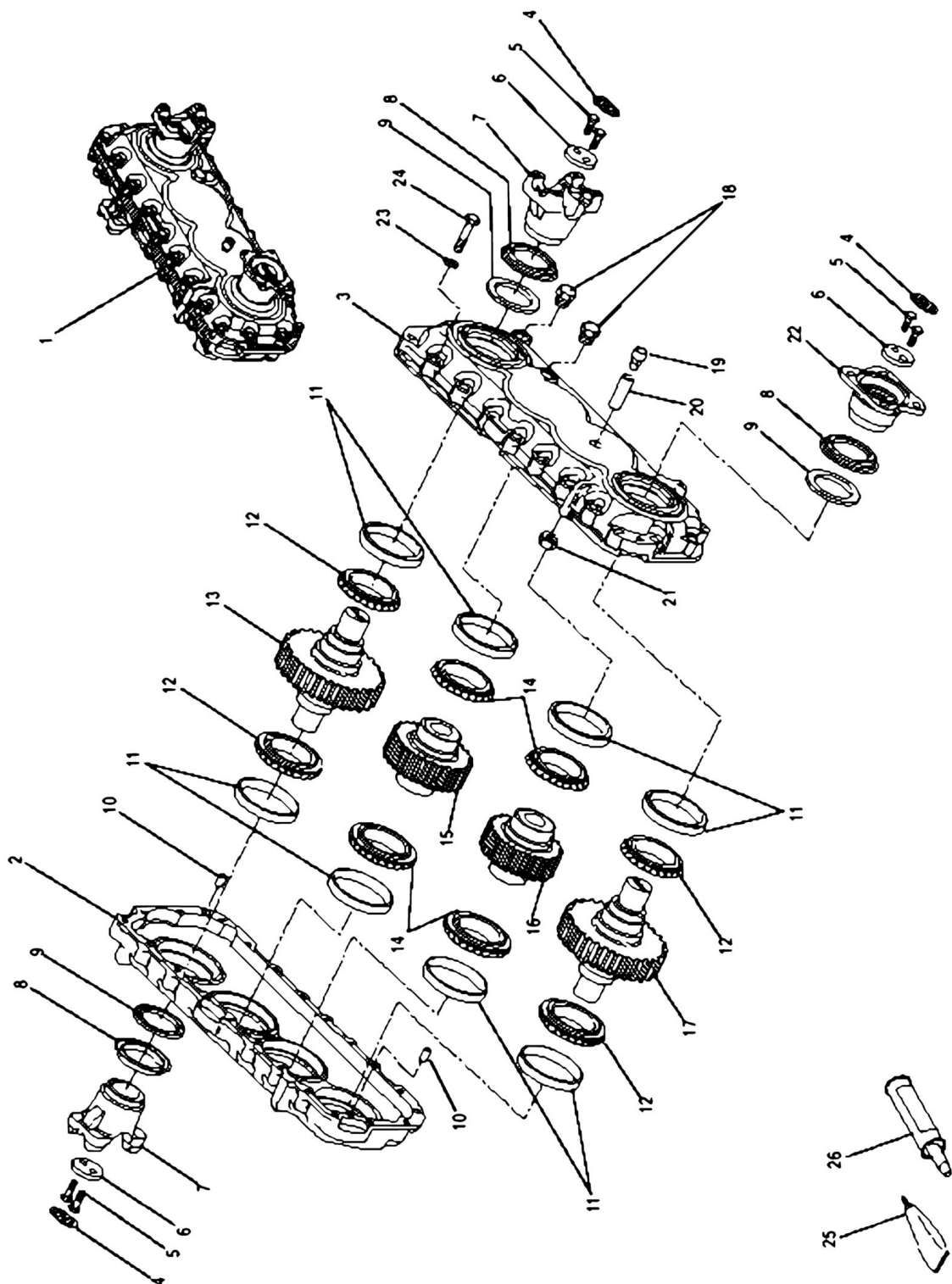
SECTION 1 - DRIVE TRAIN

FIGURE 1-31. TRANSMISSION OIL COOLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770160	2	Elbow, 90, SAE 12-10 - str thd ORB x OFS	
2	2716519	12	Hose, 3/4 I.D. x 48in Long	
3	2716518	1	Hose, 3/4 I.D. x 42in Long	
4	8770070	2	Connector, SAE 12 - str thd ORB x OFS	

SECTION 1 - DRIVE TRAIN

FIGURE 1-32. TRANSFER BOX



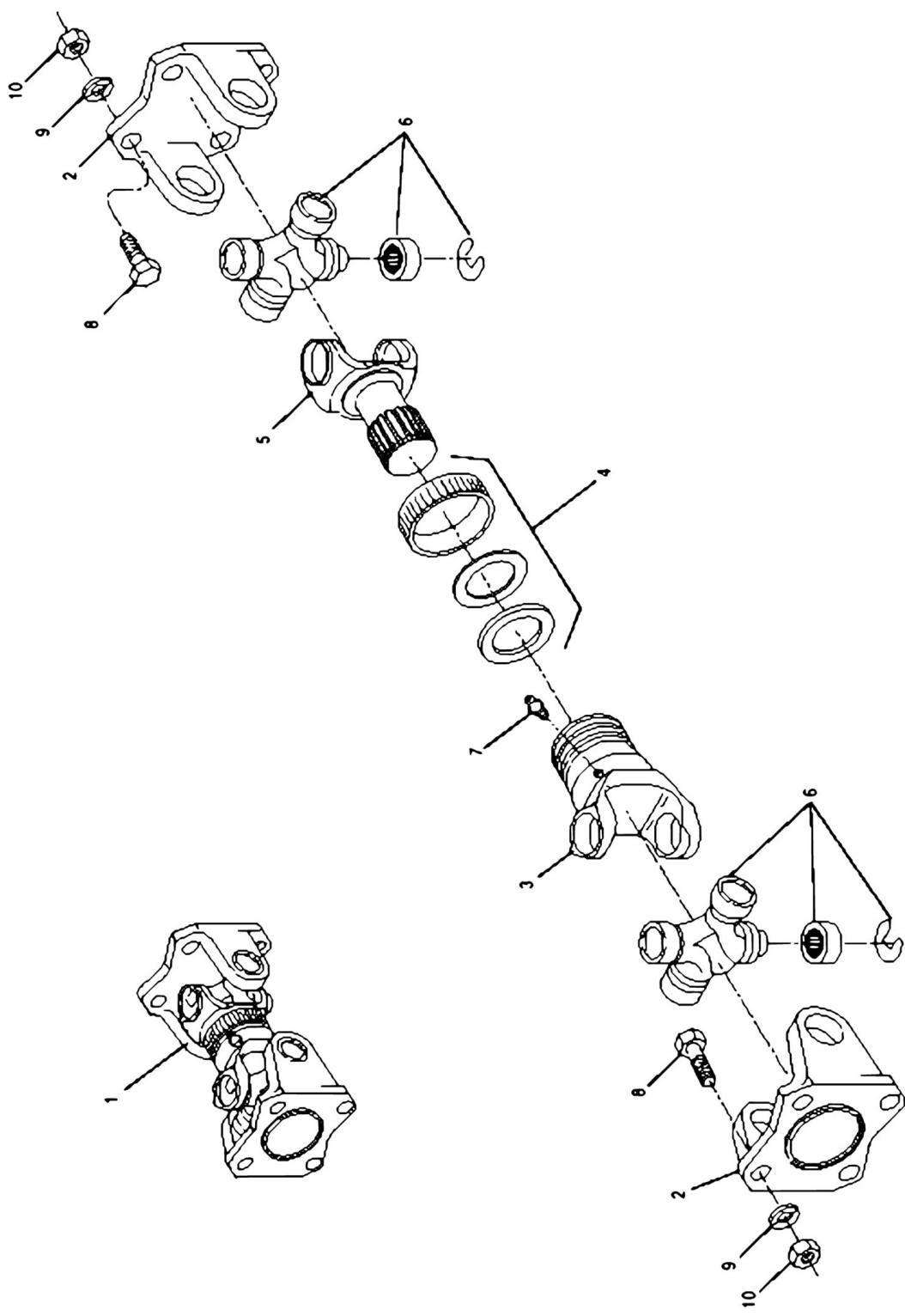
SECTION 1 - DRIVE TRAIN

FIGURE 1-32. TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8841041	1	Transfer Box Assembly (Includes items 2 thru 24)	
2	1320760	1	Housing, Front Half	
3	1320989	1	Housing, Rear Half	
4	1319649	3	Washer, Tab	
5	10731959	6	HHCS, M8 x 25mm	
6	1319648	3	Washer, Flange	
7	1320756	2	Yoke	
8	1319647	3	Shield, Dust	
9	1320755	3	Seal, Shaft	
10	1320761	2	Dowel, M10 x 24mm	
11	1320748	8	Cup, Tapered Roller Bearing	
12	1320753	4	Cone, Tapered Roller Bearing	
13	1320752	1	Gear, Output 39T	
14	1320754	4	Cone, Tapered Roller Bearing	
15	1320751	1	Gear, Idle 31T	
16	1320750	1	Gear, Idle 28T	
17	1320749	1	Gear, Input 36T	
18	1320759	2	Plug, Oil 7/8-14	
19	1320764	1	Breather, M10 x 1mm	
20	1320762	1	Carrier, Breather	
21	1320763	1	Nut, Hex M16	
22	1320765	1	Flange, Companion	
23	1320757	22	Washer, Elastic	
24	1320758	22	HHCS, M10 x 60mm	
25	8526052	AR	Thread locker, Loctite #277 (10ml) .34 fl oz	
26	8526056	AR	Gasket Eliminator, Loctite #518	

SECTION 1 - DRIVE TRAIN

FIGURE 1-33. DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX



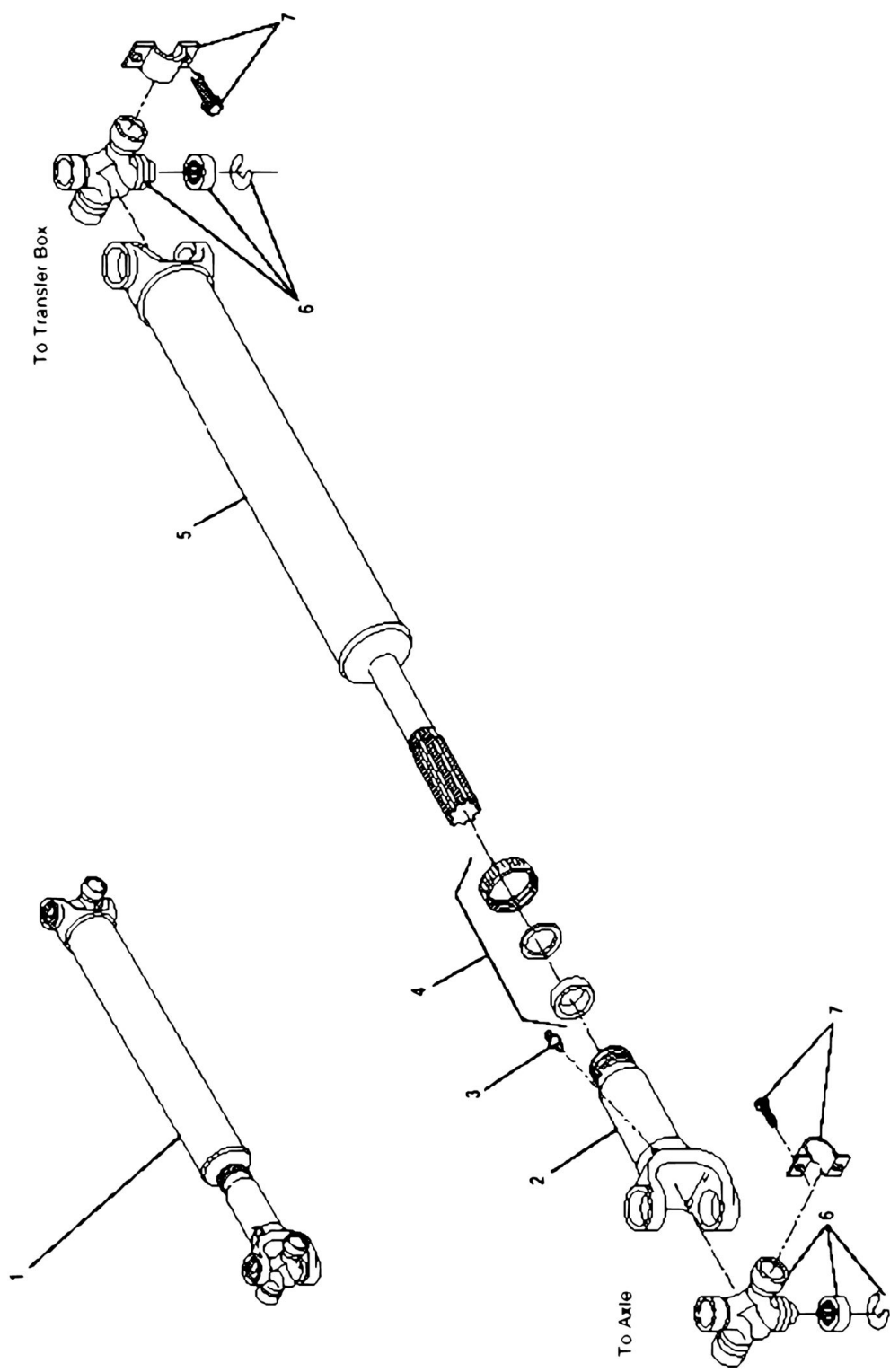
SECTION 1 - DRIVE TRAIN

FIGURE 1-33. DRIVE SHAFT - TRANSMISSION TO TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138760	1	Drive Shaft Assembly - Transmission to Transfer (Includes Items 2 thru 7)	
2	N.S.S.	1	Flange, Yoke	
3	N.S.S.	1	Yoke, Slip	
4	8035779	1	Kit, Dust Cap	
5	N.S.S.	1	Shaft, Yoke	
6	8035778	2	Kit, Cross and Bearing	
7	8033004	1	Fitting, Grease	
8	8310084	8	HHCS, 1/2-20 NF x 2.00"	
9	8307007	8	Washer, Lock 1/2"	
10	8310464	8	Nut, Hex 1/2-20 NF	
		Ref	N.S.S. = Not Sold Separately	

SECTION 1 - DRIVE TRAIN

FIGURE 1-34. DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE



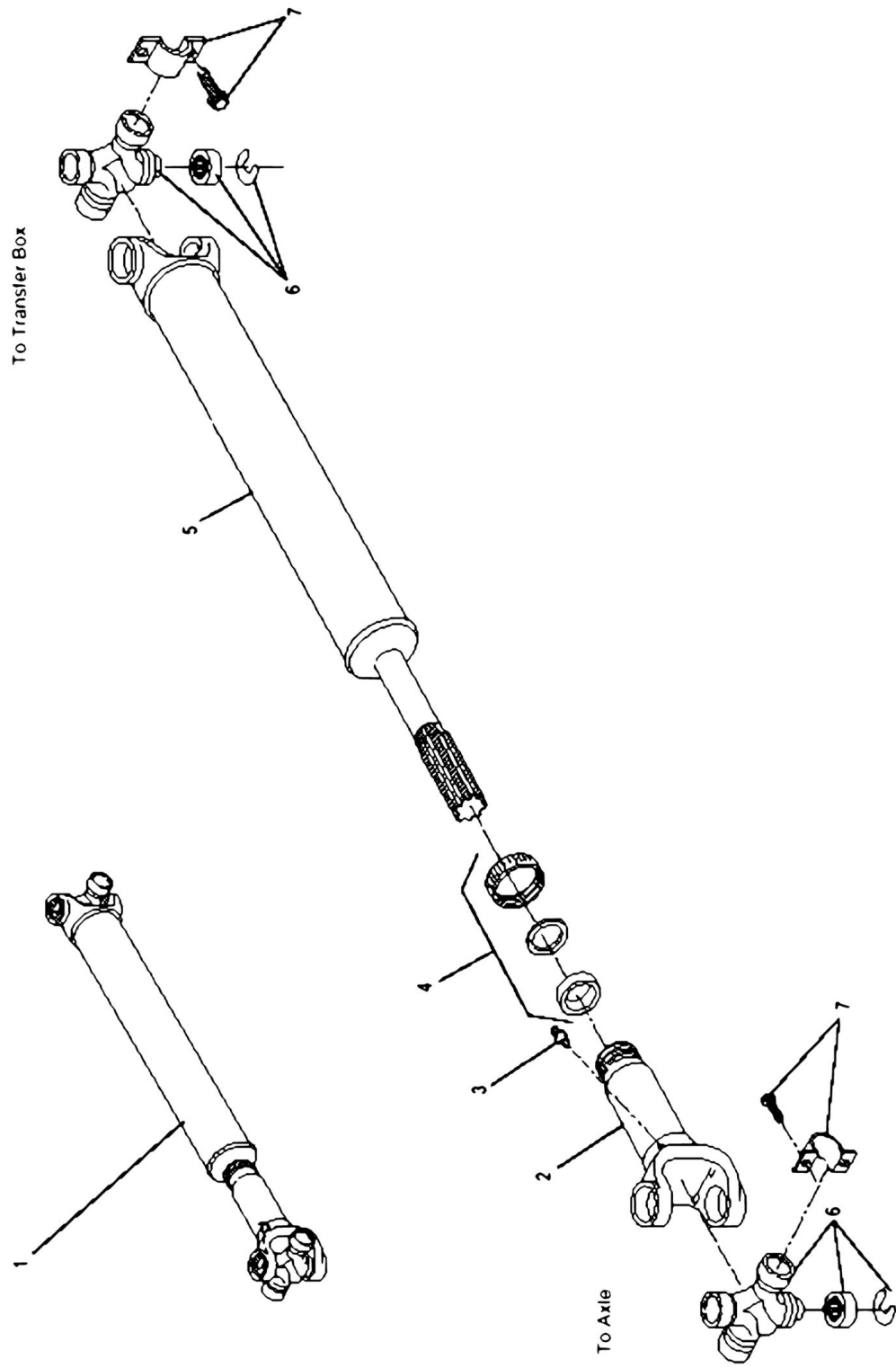
SECTION 1 - DRIVE TRAIN

FIGURE 1-34. DRIVE SHAFT - TRANSFER BOX TO FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7135912	1	Drive Shaft Assembly - Front (Includes Items 2 thru 6)	
2	N.S.S.	1	Yoke, Slip	
3	8033004	1	Fitting, Grease	
4	8035109	1	Kit, Dust Cap	
5	N.S.S.	1	Shaft, Yoke	
6	8035778	2	Kit, Cross and Bearing	
7	8880218	4	Kit, Strap	
		Ref	N.S.S. = Not Sold Separately	

SECTION 1 - DRIVE TRAIN

FIGURE 1-35. DRIVE SHAFT - TRANSFER BOX TO REAR AXLE



SECTION 1 - DRIVE TRAIN

FIGURE 1-35. DRIVE SHAFT - TRANSFER BOX TO REAR AXLE

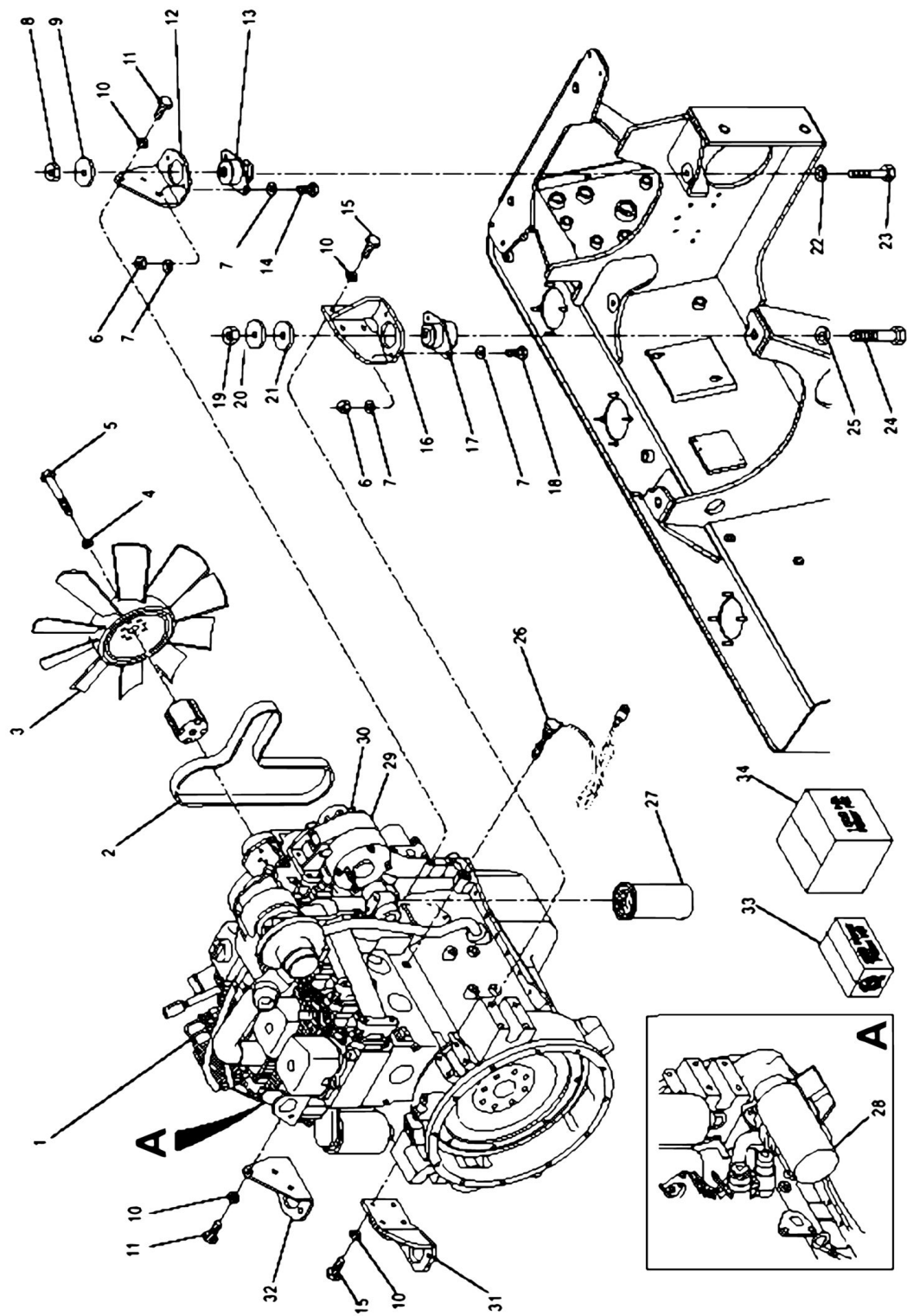
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7135922	1	Drive Shaft Assembly - Rear (Includes Items 2 thru 6)	
2	N.S.S.	1	Yoke, Slip	
3	8033004	1	Fitting, Grease	
4	8035109	1	Kit, Dust Cap	
5	N.S.S.	1	Shaft, Yoke	
6	8035778	2	Kit, Cross and Bearing	
7	8880218	4	Kit, Strap	
		Ref	N.S.S. = Not Sold Separately	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-1. ENGINE MOUNTING



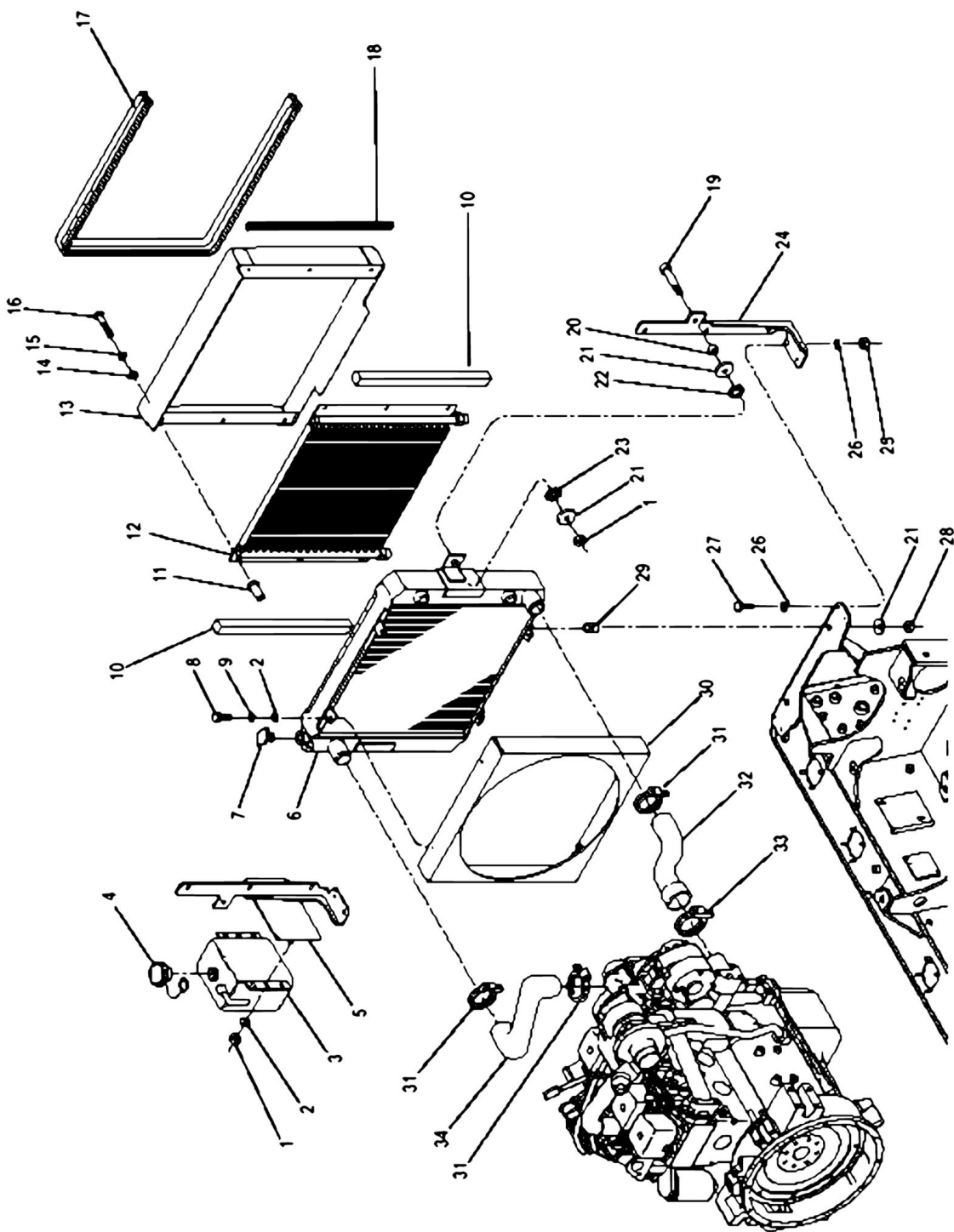
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-1. ENGINE MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262150	1	Engine, Cummins 4BT 3.9 Turbo	
2	8080613	1	Belt, Fan	
3	8272017	1	Fan, 18in Suction	
4	8307023	4	Washer, Lock M10	
5	8310424	4	HHCS, M8-1,5 x 90mm	
6	8305645	8	Nut, Hex Lock Elastic 3/8-16	
7	8307110	16	Washer, Flat 3/8in Narrow	
8	8310109	2	Nut, Hex Lock Elastic 7/16-14	
9	7121951	2	Washer, Rebound 7/16in	
10	8307025	14	Washer, Lock M12	
11	8303790	6	HHCS, M12-1,75 x 30mm PC 8,8	
12	7127562	1	Mount, Engine, Rear Left Side	
13	8278021	2	Isolator, Engine	
14	8303675	2	HHCS, 3/8-16 x 1-1/4in Gr 5	
15	8310164	8	HHCS, M12-1,75 x 40mm PC 8,8	
16	7127492	1	Mount, Engine, Front Left Side	
17	8278028	2	Isolator, Engine	
18	8303621	4	HHCS, 3/8-16 x 1-1/2in Gr 5	
19	8305643	2	Nut, Hex Lock Elastic 5/8-11	
20	7132141	2	Washer, Rebound 5/8in	
21	8278030	2	Washer, Snubbing	
22	8307113	2	Washer, Flat 7/16in Narrow	
23	8310289	2	HHCS, 7/16-14 x 3-1/4in Gr 8	
24	8310333	2	HHCS, 5/8-11 x 4in Gr 8	
25	8307107	2	Washer, Flat 5/8in Narrow	
26	8277161	1	Heater, Coolant	
27	8320262	1	Filter, Engine Oil (Also Included In Kits, Items 33 & 34)	
28	8035278	1	Starter	
29	8270221	1	Alternator, 65 Amp	
30	8270220	1	Fan, Alternator	
31	7127462	1	Mount, Engine, Front Right Side	
32	7127552	1	Mount, Engine, Rear Right Side	
33	7138288	1	250 Hour Filter Kit (Includes 2 Filters: Engine Oil Filter and Fuel Filter)	
34	7139238	1	1000 Hour Filter Kit (Includes 6 Filters: Engine Oil Filter, Fuel Filter, Both Air Filters, Transmission Oil Filter and Hydraulic Oil Filter)	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-2. RADIATOR AND OIL COOLER MOUNTING



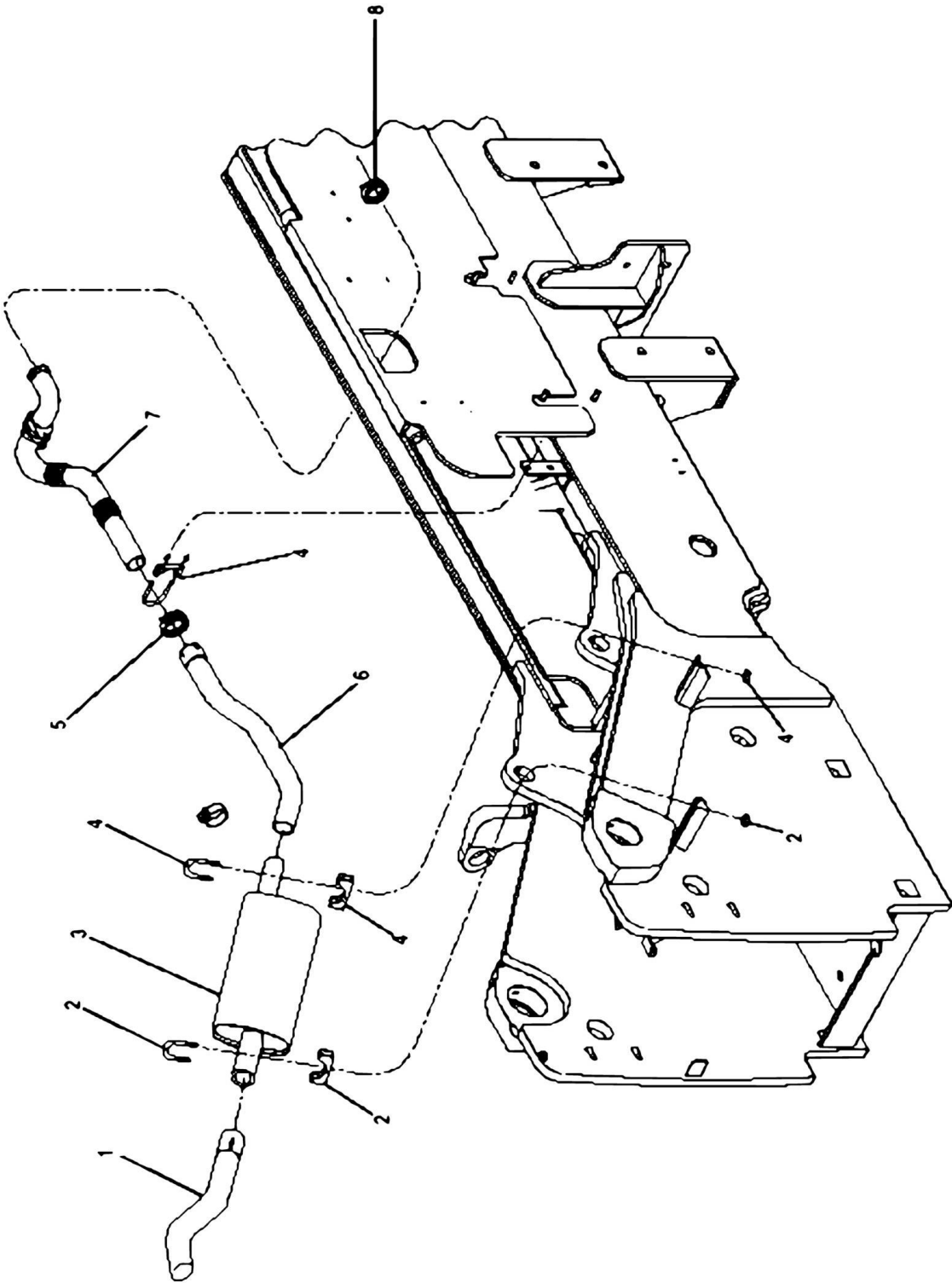
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-2. RADIATOR AND OIL COOLER MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8305626	4	Nut, Hex Lock Elastic 5/16-18	
2	8307106	6	Washer, Flat 5/16in Narrow	
3	7085422	1	Tank, Overflow 3 Qt (Includes Item 4)	
4	8866341	1	Cap w/Tether	
5	7138231	1	Bracket Assembly, Radiator Right Side	
6	7138224	1	Radiator Assembly (Includes Item 7)	
7	8180311	1	Cap, Radiator - 13 psi (89,6 kpa)	
8	8303697	4	HHCS, 5/16-18 x 3/4in Gr 5	
9	8307004	4	Washer, Lock 5/16in	
10	7132012	2	Baffle, Foam	
11	8580420	6	Nut, Well	
12	7129973	1	Cooler, Oil (See HYDRAULIC SYSTEM COMPONENTS SECTION for Hose Connection)	
13	7138242	1	Baffle Assembly, Radiator	
14	8307202	6	Washer, Flat 1/4in Wide	
15	8307002	6	Washer, Lock 1/4in	
16	8303743	6	HHCS, 1/4-20 x 1-1/2in	
17	7131952	1	Seal Bulb	
18	7132002	1	Moulding, Seal Bulb	
19	8310104	2	Bolt, Shoulder, Socket Hd 3/8 x 1-1/2 x 5/16-18	
20	7130131	2	Spacer	
21	7057141	4	Washer, Rebound 3/8in	
22	8278023	2	Bushing, Radiator Mount	
23	8278024	2	Ring, Radiator Mount	
24	7138230	1	Bracket, Radiator Left Side	
25	8305645	4	Nut, Hex Lock Elastic 3/8-16	
26	8307204	8	Washer, Flat 3/8in Wide	
27	8303621	4	HHCS, 3/8-16 x 1-1/2in Gr 5	
28	8305603	2	Nut, Hex Lock 3/8-16	
29	8278008	2	Mount, Rubber	
30	7131253	1	Shroud, Radiator	
31	8405104	3	Clamp, Radiator Hose	
32	7138515	1	Hose, Radiator, Return	
33	8405203	1	Clamp, Radiator Hose	
34	7126703	1	Hose, Radiator, Input	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-3. EXHAUST SYSTEM



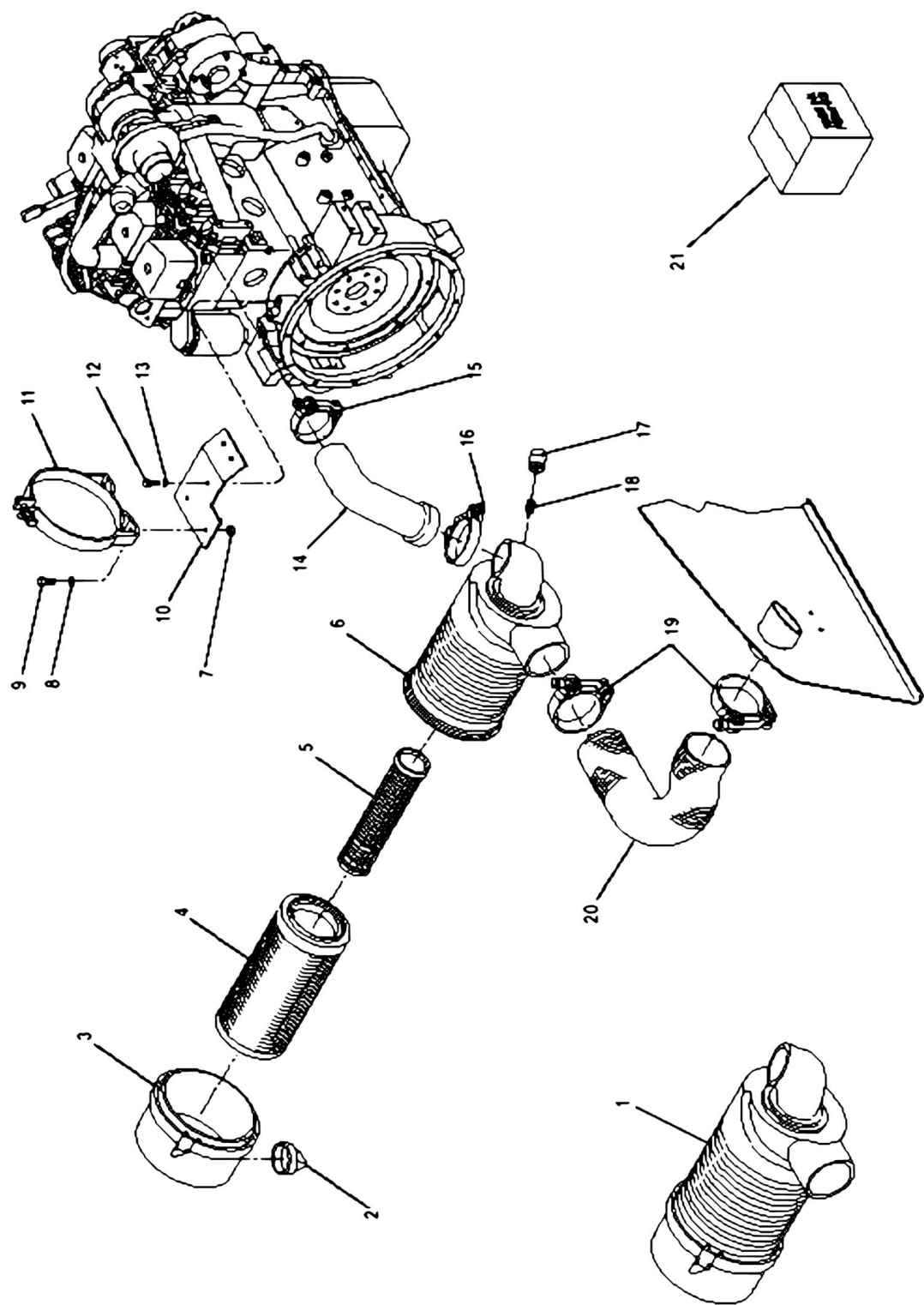
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-3. EXHAUST SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138686	1	Tail Pipe	
2	8275247	1	Clamp, Muffler 3in, Heavy Duty	
3	8275040	1	Muffler	
4	8275212	2	Clamp, Muffler 2-1/2in, U-Type	
5	8275249	1	Clamp, Accuseal, 2 1/2in	
6	7139461	1	Pipe, Exhaust	
7	7139460	1	Pipe, Exhaust, Turbo Outlet	
8	8275240	1	Clamp, V-Band	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-4. AIR CLEANER ASSEMBLY



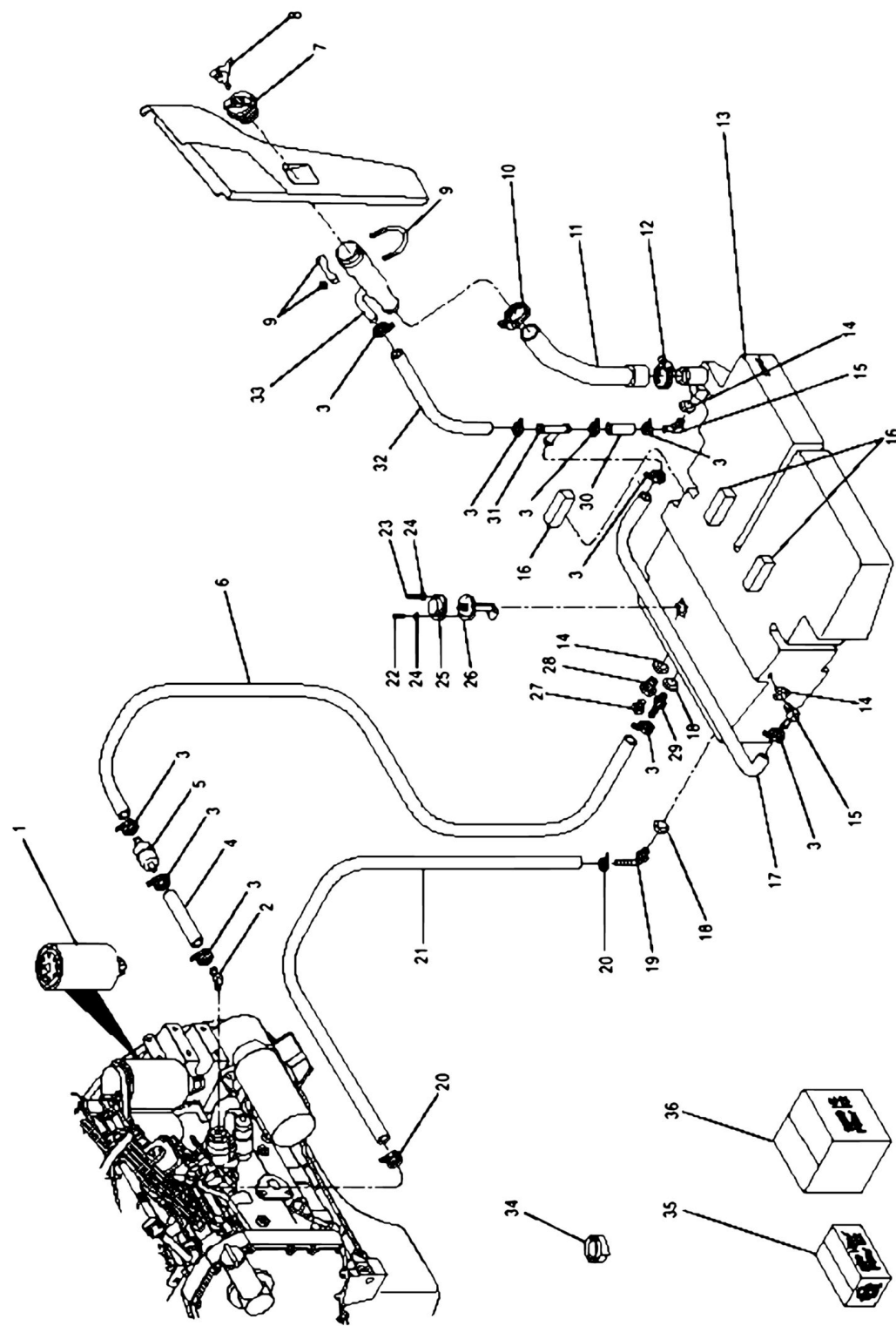
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-4. AIR CLEANER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273022	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032398	1	Valve, Vacuator	
3	8035279	1	Cover Assembly	
4	8035098	1	Filter, Primary (Also Included In Kit, Item 21)	
5	8035099	1	Filter, Safety (Also Included In Kit, Item 21)	
6	N.S.S.	1	Body Assembly	
7	8305626	2	Nut, Hex Lock Elastic 5/16-18	
8	8307106	2	Washer, Flat 5/16in Narrow	
9	8303670	2	HHCS, 5/16-18 x 1in	
10	7138249	1	Plate, Air Cleaner Mount	
11	8273297	1	Band Assembly, Air Cleaner Mount	
12	8303675	3	HHCS, 3/8-16 x 1-1/4in Gr 5	
13	8307005	3	Washer, Lock 3/8in	
14	7126833	1	Hose, Air Cleaner	
15	8405306	1	Clamp, T-Bolt	
16	8405307	1	Clamp, T-Bolt, Heavy Duty	
17	8223527	1	Switch, Vacuum	
18	8551001	1	Nipple, Close, 1/8in NPT	
19	8405404	2	Clamp, T-Bolt	
20	7138695		Hose, Air Intake	
21	7139238	1	1000 Hour Filter Kit (Includes 6 Filters: Engine Oil Filter, Fuel Filter, Both Air Filters, Transmission Oil Filter and Hydraulic Oil Filter)	
		Ref	N.S.S. = Not Sold Separately	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-5. FUEL SYSTEM



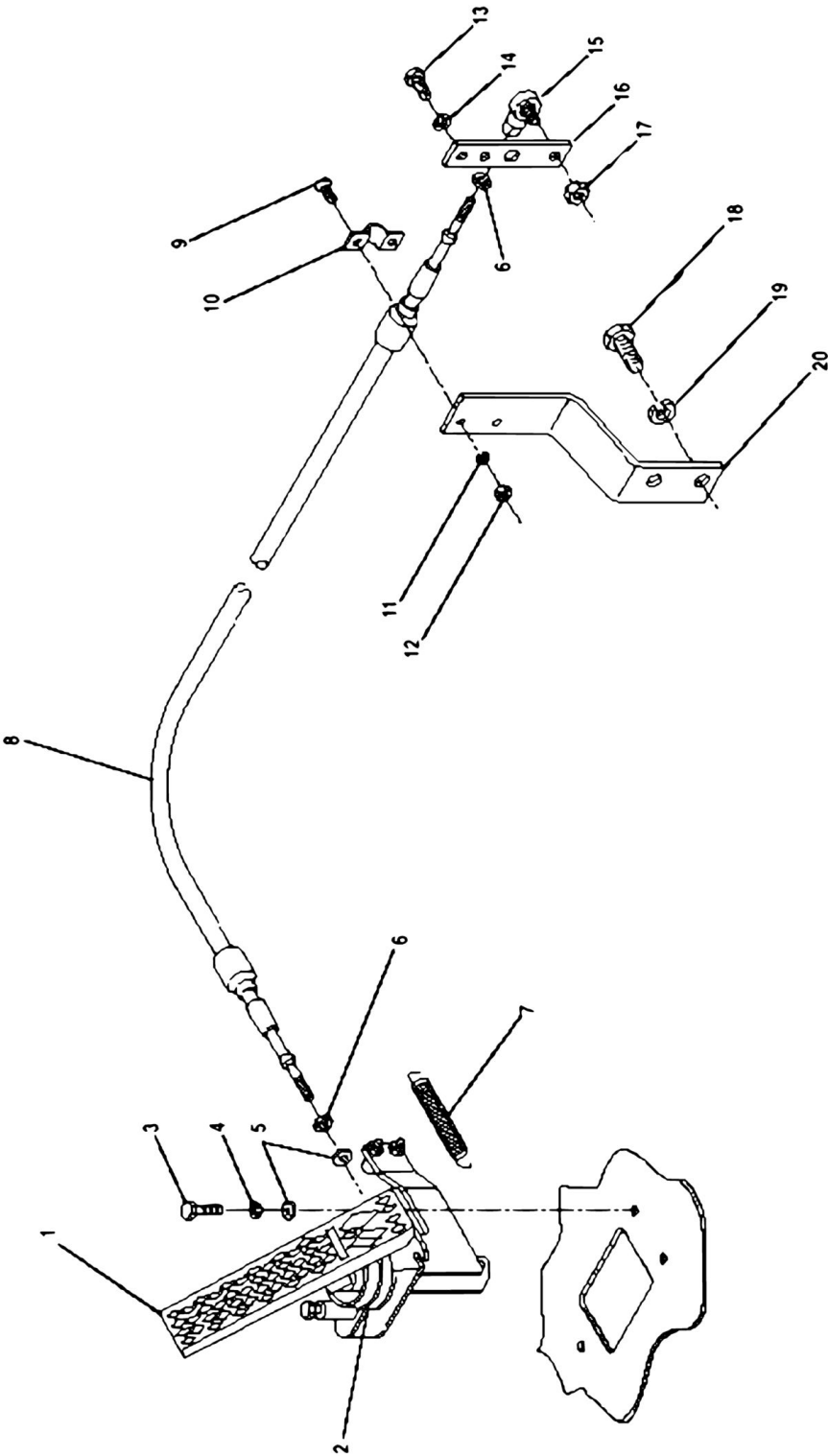
SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-5. FUEL SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8320270	1	Filter, Fuel (Also Included In Filter Kits, Items 35 & 36)	
2	8420229	1	Hose Fitting, Elbow, 90, Barbed, SAE 6-4P (Note: Item 34 P/N 8526053 to be used with all Threaded Pipe Fittings.)	
3	8410013	10	Clamp, Hose	
4	7132131	1	Hose, Fuel 3/8 x 10in	
5	8274022	1	Strainer, Fuel	
6	7138850	1	Hose, Fuel 3/8in I.D. (Fuel Supply From Tank)	
7	8322036	1	Cap, Fuel w/Keys (Includes Item 8)	
8	8035292	1	Keys (Set of Two)	
9	8275209	1	Clamp, Muffler, U Type 2in	
10	8405104	1	Clamp, Hose, Upper SAE Type F	
11	7129133	1	Hose, Fuel Filler	
12	8405202	1	Clamp, Hose, Lower SAE Type F	
13	7138736	1	Tank, Fuel	
14	8660011	3	Grommet, 5/8 Fitting	
15	8430095	2	Elbow, 5/8in Hose (Note: Item 34 P/N 8526053 to be used with all Threaded Pipe Fittings.)	
16	5724742	3	Gasket	
17	7129121	1	Hose, Fuel Breather	
18	8660010	2	Grommet, 3/8 Fitting	
19	8430094	1	Elbow, 5/16in Hose (Note: Item 34 P/N 8526053 to be used with all Threaded Pipe Fittings.)	
20	8405009	2	Clamp, Hose, Miniature 7/32in Dia	
21	7132111	1	Hose, Fuel Return	
22	8303836	1	Screw, Pan Hd #10-24 x 5/8in	
23	8303837	4	Screw, Pan Hd #10-24 x 3/4	
24	8307003	5	Washer, Lock #10	
25	7131992	1	Cover, Fuel Sender	
26	7120613	1	Sender, Fuel w/Gasket	
27	8541404	1	Plug, Pipe, Sq Hd - 3/8in NPT (Note: Item 34 P/N 8526053 to be used with all Threaded Pipe Fittings.)	
28	8430092	1	Drain, Hex 3/8-18 NPT	
29	8430093	1	Connector, 3/8in Hose (Note: Item 34 P/N 8526053 to be used with all Threaded Pipe Fittings.)	
30	7129111	1	Hose, Fuel Breather	
31	8430072	1	Hose Fitting, Tee, Beaded, SAE 10	
32	7129101	1	Hose, Fuel Breather	
33	7128602	1	Filler, Fuel	
34	8526053	AR	Sealant, Thread, Teflon Tape 1/2in	
35	7138288	1	250 Hour Filter Kit (Includes 2 Filters: Engine Oil Filter and Fuel Filter)	
36	7139238	1	1000 Hour Filter Kit (Includes 6 Filters: Engine Oil Filter, Fuel Filter, Both Air Filters, Transmission Oil Filter and Hydraulic Oil Filter)	

SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-6. THROTTLE GROUP ASSEMBLY



SECTION 2 - ENGINE, RADIATOR AND FUEL SYSTEM

FIGURE 2-6. THROTTLE GROUP ASSEMBLY

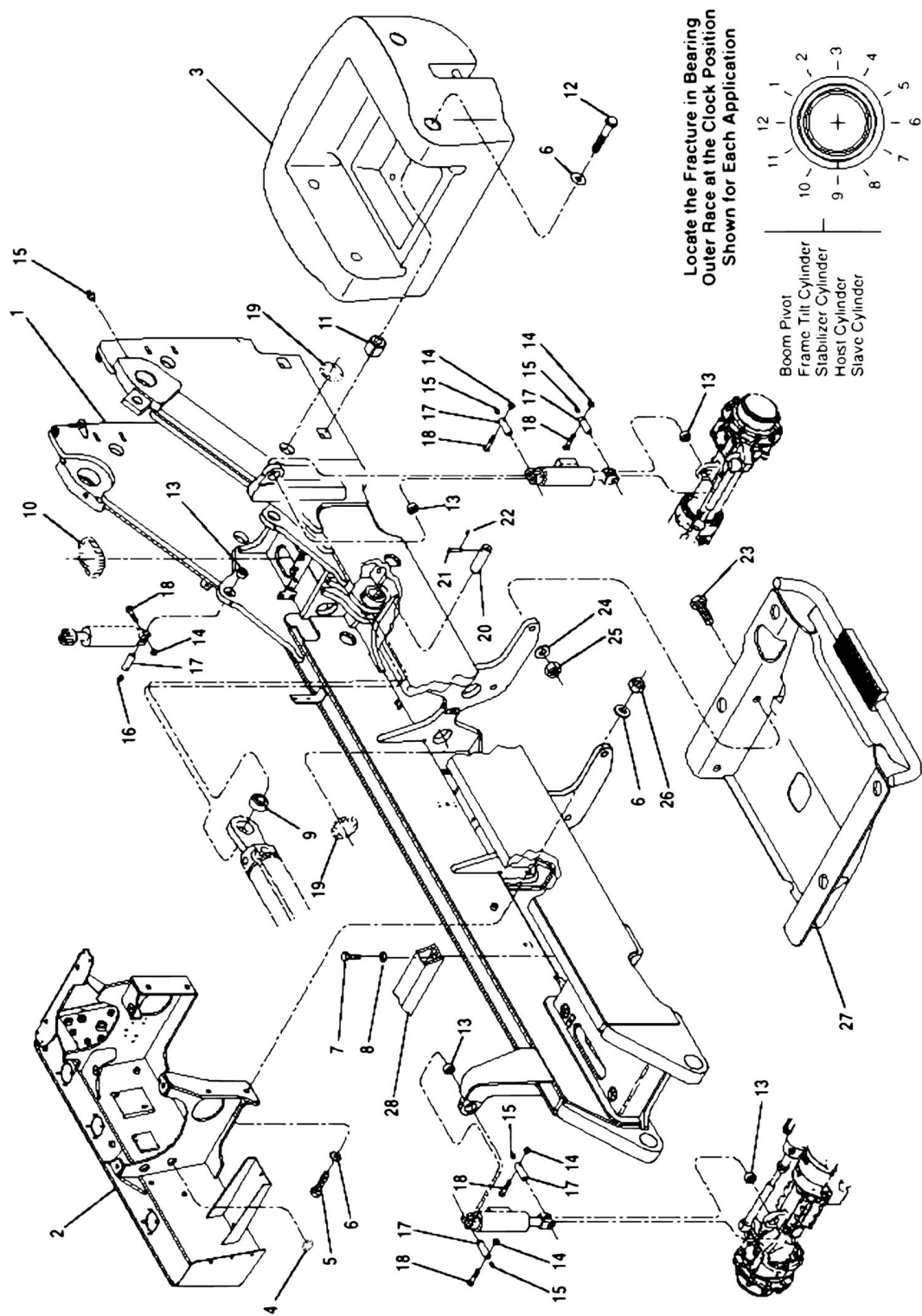
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8162003	1	Pedal, Throttle (Includes Item 2)	
2	8033178	1	Bellows, Throttle Pedal	
3	8303615	3	HHCS, 1/4-20 x 1-1/4in	
4	8307002	2	Washer, Lock 1/4in	
5	8307109	4	Washer, Flat SAE 1/4in	
6	8305402	2	Nut, Hex Jam 1/4-28 NF	
7	8700116	1	Spring, Extension	
8	8160073	1	Cable, Throttle	
9	8303837	2	Screw, Slotted Pan Hd #10-24 x 3/4in	
10	8160610	1	Clamp, Cable	
11	8307003	2	Washer, Lock #10	
12	8305002	2	Nut, Hex #10-24	
13	8303799	2	HHCS, M6-1 x 14mm	
14	8307024	2	Washer, Lock M6	
15	8340034	1	Rod End 1/4-28 Thd	
16	7127091	1	Extension, Throttle Lever	
17	8305650	1	Nut, Hex Lock Elastic 1/4-28 NF	
18	8303790	2	HHCS, M12-1, 75 x 30mm PC 8, 8	
19	8307025	2	Washer, Lock M12	
20	7127102	1	Bracket, Throttle Cable	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-1. MAIN FRAME ASSEMBLY



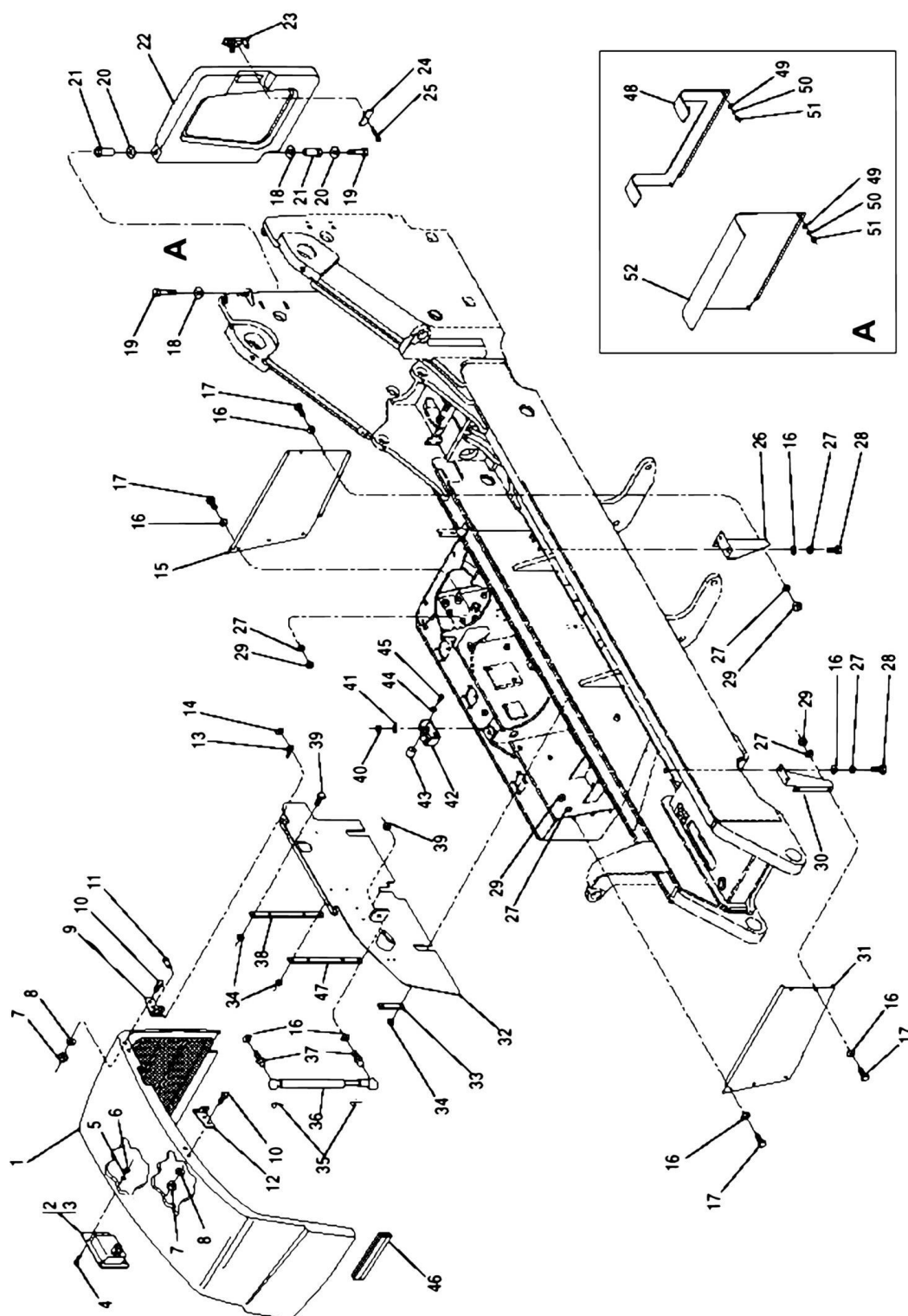
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-1. MAIN FRAME ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	Call Factory	1	Frame, Main	
2	7137164	1	Hydraulic Reservoir/Engine Mount	
3	7139297	1	Counterweight, 4270 (2800 lbs)	
3	7138620	1	Counterweight, 4290 (4200 lbs) (Not Shown)	
4	7124331	AR	Conduit 1/2in Dia (60in Cut to Fit)	
5	8303538	4	HHCS, 1in-8 x 3in Gr 8	
6	8310061	12	Washer, 1in Hardened	
7	8303693	2	HHCS, 1/2in-13 x 2-1/2in	
8	8307112	2	Washer, Flat 1/2in	
9	8050007	1	Bearing, Self Align	
10	7139248	AR	Conduit 3/4in Dia (60in Cut to Fit)	
11	7139335	4	Bushing	
12	8310090	4	HHCS, 1in-8 x 7in Gr 8	
13	8050001	6	Bearing, Self Align 1-1/2in I.D.	
14	8305626	6	Nut, Hex Lock 5/16in-18	
15	8520001	4	Fitting, Lube 1/8in	
16	8520003	2	Fitting, Lube 90	
17	7137142	6	Pin, Cylinder	
18	8303752	6	HHCS, 5/16in-18 x 3-1/2in	
19	7139249	AR	Conduit 1in Dia (60in Cut to Fit)	
20	7139324	1	Pin, Hoist Cylinder	
21	7139502	1	Pin, Clevis, Hoist Keeper	
22	8130211	1	Hair Pin (Cotter) .143	
23	8310285	4	HHCS, 1-8 x 3in Gr 8	
24	8307211	4	Washer, Flat 1-1/4in	
25	8310417	4	Nut, Hex Lock 1-1/4in	
26	8310481	4	Nut, Hex Lock 1in	
27	7136794	1	Mount, Cab	
28	5752022	1	Bumper	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-2. ENGINE HOOD AND COVERS



SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-2. ENGINE HOOD AND COVERS

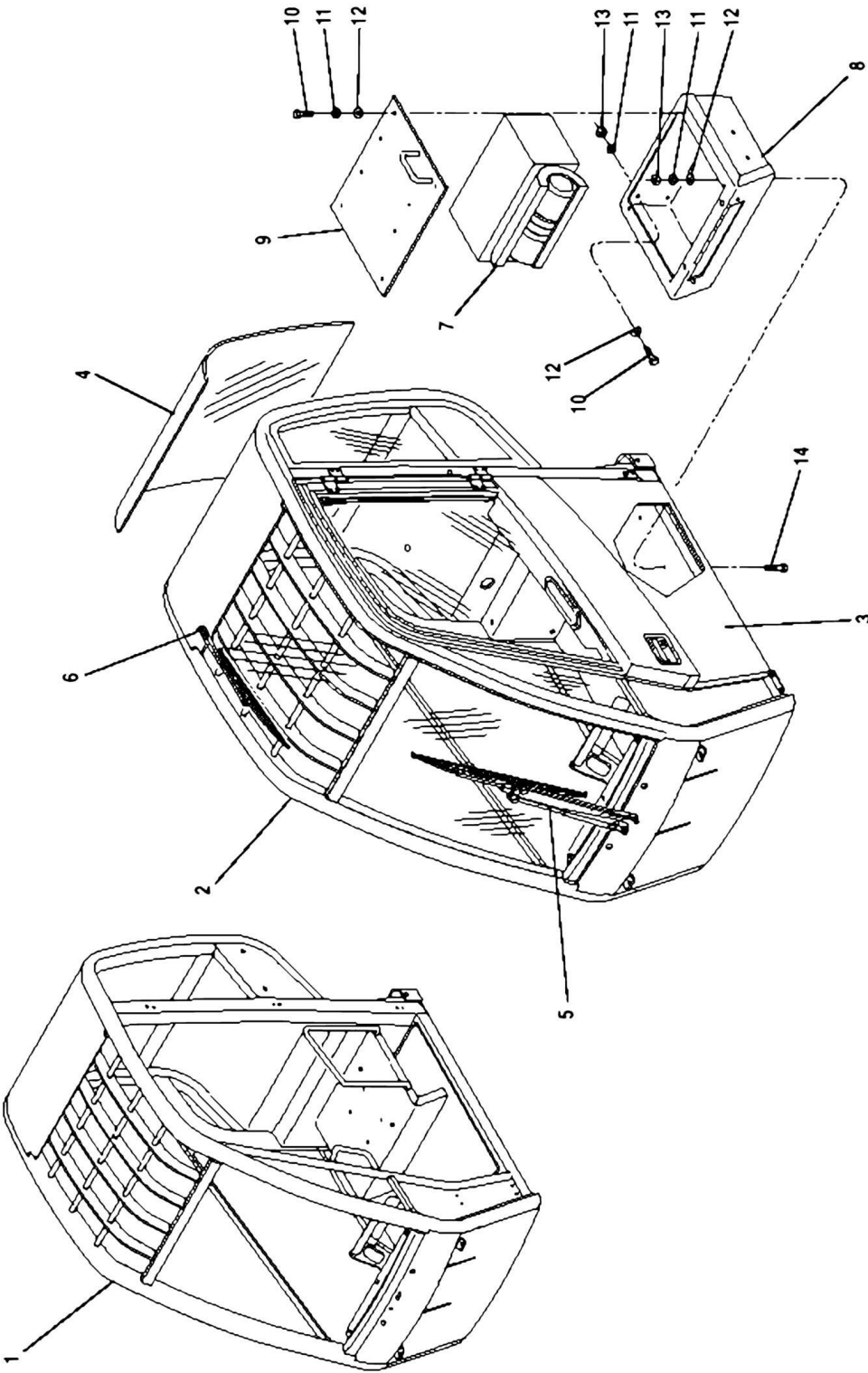
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7139549	1	Hood, Engine (Includes Items 2 thru 6)	
2	8342425	1	Handle, Outside Door (includes 2 ea. of Item 3)	
3	8342808	2	Key, Handle, Outside Door (Not Shown)	
4	8310372	4	BHCS, #10-24 x 5/8in	
5	8307111	4	Washer, Plain, #10 SAE Narrow	
6	8310085	4	Nut, Hex Lock, #10 x 24	
7	8305624	4	Nut, Hex Lock Elastic 1/4in-20	
8	8307109	4	Washer, Flat SAE Light 1/4in	
9	7138265	1	Hinge, Hood - Rear	
10	8303615	4	HHCS, 1/4in-20 x 1-1/4in Gr 5	
11	8310334	2	Pin, Clevis 3/8in Dia x 1 3/8in LG	
12	7138264	1	Hinge, Hood - Front	
13	8302470	2	Pin, Cotter	
14	8307110	14	Washer, Flat 3/8in Narrow	
15	7137343	1	Cover, Engine - Rear	
16	8307106	14	Washer, Flat 5/16in	
17	8303670	10	HHCS, 5/16in-18 x 1in	
18	8307112	2	Washer, Flat 1/2in Heavy	
19	8303675	8	HHCS, 3/8in-16 x 1-1/2in	
20	8307204	AR	Washer, Flat 3/8in	
21	7138280	2	Bushing, Hinge, Rear Cover	
22	7139408	1	Cover, Rear Frame	
23	8342416	1	Latch, Adjustable Trigger	
24	7138321	1	Plate, Latch	
25	8310439	1	Screw, Pan Hd	
26	7138829	1	Bracket, Cover - Rear	
27	8307004	14	Washer, Lock 5/16in	
28	8303744	4	HHCS, 5/16in-18 x 1/2in	
29	8305906	10	Nut, Retainer 5/16in-18	
30	7138828	1	Bracket, Cover - Front	
31	7137333	1	Cover, Engine - Front	
32	7139551	1	Panel, Engine	
33	7138843	1	Stiffener, Flat	
34	8305644	10	Nut, Hex Lock Elastic 1/2in-13	
35	8702157	4	Spring, Clip	
36	8702160	2	Spring, Gas	
37	8340035	4	Ball Stud - 13mm	
38	7138342	1	Stiffener, Flat	
39	8303626	6	HHCS, 1/2in-13 x 1-1/2in Gr 5	
40	8305626	6	Nut, Hex Lock Elastic 5/16in-18	
41	8307203	2	Washer, Flat 5/16in	
42	7139061	1	Bracket, Striker	
43	8660012	1	Bumper	
44	8307005	1	Washer, Lock 3/8in	
45	8303681	1	HHCS, 3/8in-16 x 3/4in	
46	6620751	1	Moulding, Edge	
47	7138682	1	Stiffener, Flat	
48	7139427	1	Header, High Boom	
49	8307202	4	Washer, Plain, 1/4in	
50	8307002	4	Washer, Lock, 1/4in	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	8305004	4	Nut, Hex, 1/4in-20	
52	7139428	1	Header, Low Boom	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-3. OPERATOR'S PROTECTIVE STRUCTURE - ROPS/FOPS



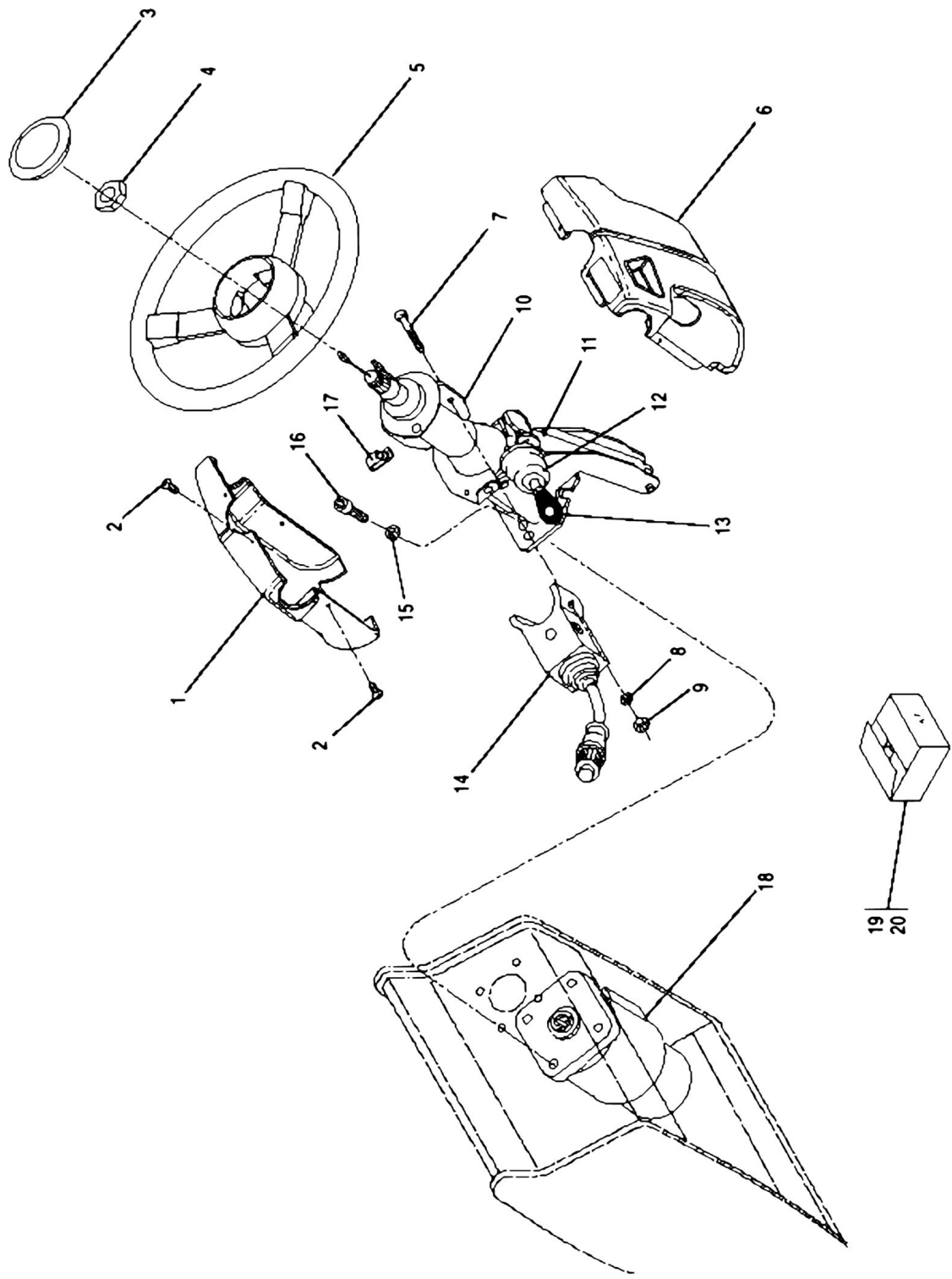
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-3. OPERATOR'S PROTECTIVE STRUCTURE - ROPS/FOPS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7137634	1	Operator's Protective Structure ROPS/FOPS - Open Cab	
2	7138124	1	Operator's Protective Structure Assembly ROPS/FOPS - Enclosed Cab (Includes Items 3 thru 14 and all Items See GLASS - ENCLOSED CAB)	
3	8035470	1	Door Assembly (See DOOR ASSEMBLY for Breakdown)	
4	8035606	1	Rear Window Assembly (See REAR WINDOW AND WIPER ASSEMBLIES for Breakdown)	
5	8036273	1	Front Windshield Wiper Assembly (See FRONT WINDSHIELD WIPER ASSEMBLY for Breakdown)	
6	8036275	1	Skylight Wiper Assembly (See SKYLIGHT WIPER ASSEMBLY for Breakdown)	
7	8036272	1	Heater Assembly (See HEATER ASSEMBLY - ENCLOSED CAB for Breakdown)	
8	8036279	1	Seat Support, Enclosed Cab	
9	8036278	1	Cover, Support w/Grab Handle	
10	8310525	6	Screw, HHC 3/8in-16 NC x 1in Gr 8	
11	8307005	8	Washer, Lock 3/8in	
12	8307110	8	Washer, Plain .375-16 NC x 1in Gr 2	
13	8305008	4	Nut, Hex .375-16 NC	
14	8304006	2	Bolt, Carriage 3/8in-16 NC x 1in Gr 2	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-4. STEERING COLUMN AND SHIFTER ASSEMBLY



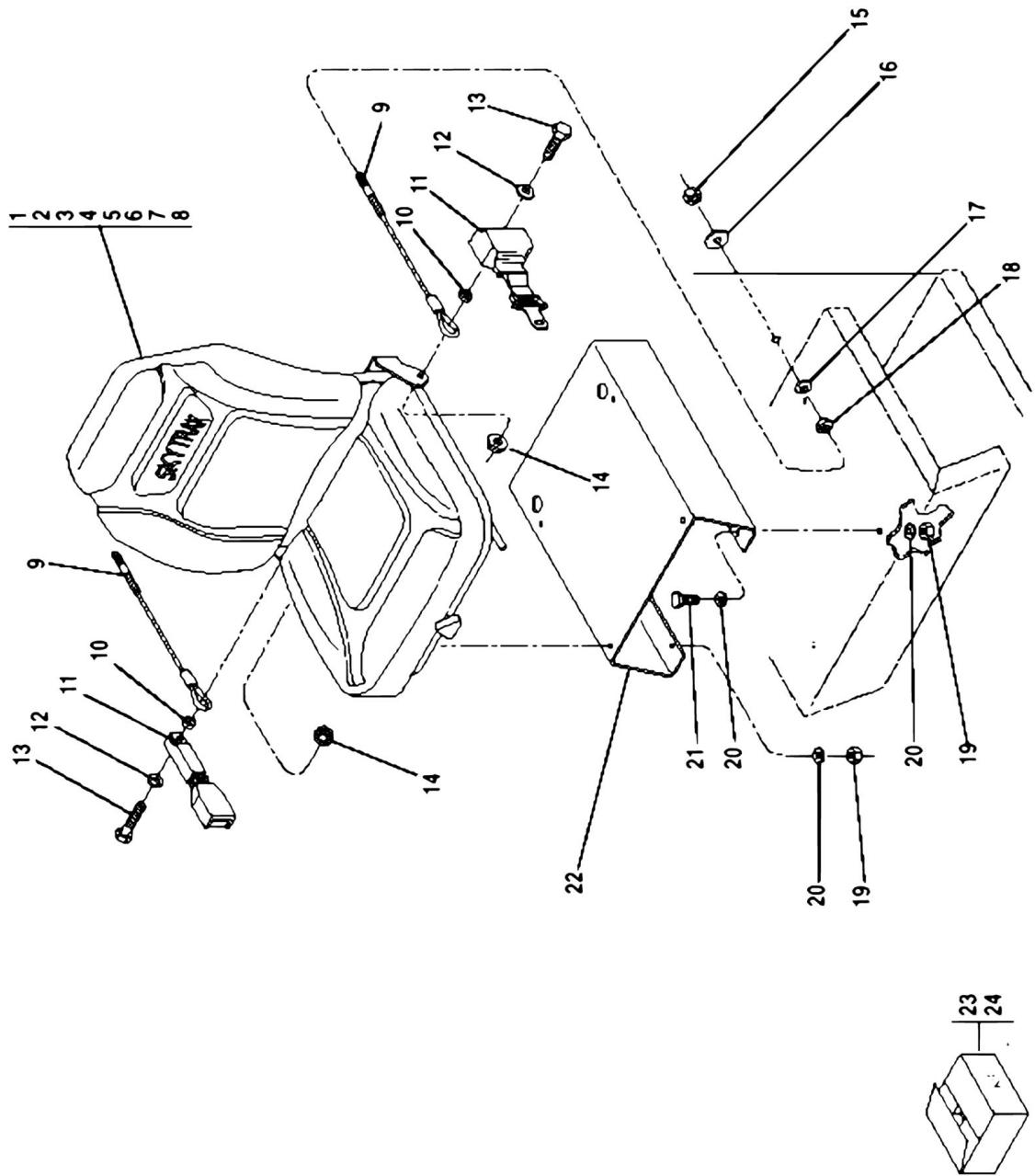
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-4. STEERING COLUMN AND SHIFTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138756	1	Cover, Steering Column, Top (See Kits)	
2	8310372	4	Screw, Button Hd #10-24 x 5/8in	
3	8720017	1	Cover, Horn Button	
4	8310315	1	Nut, Thin M18-1, 5	
5	8720016	1	Wheel, Steering	
6	7138757	1	Cover, Steering Column, Bottom (See Kits)	
7	8310490	2	Screw, Hex Socket Hd M4-0,7 x 20mm	
8	8310491	2	Washer, Plain M4	
9	8310492	2	Nut, Hex M4-0,7	
10	7137623	1	Steering Column (Includes Items 11 thru 13)	
11	8035803	1	Gas Spring - Steering Column	
12	8035804	1	Boot, Tilt Lever	
13	8580118	1	Knob, Tilt Steering	
14	8223049	1	Transmission Range Selector	
15	8307005	1	Washer, Lock 3/8in	
16	8304672	4	Screw, Hex Socket Hd 3/8in-16 x 1in	
17	8310359	4	Nut, "J" #10-24	
18	8721029	1	Steering Orbital	
19	7138844	1	Kit, Cab Panels - Open Cab (Includes Items 1, 6 and additional panels 6, 15, 16, & 28 See INNER CONSOLE AND DASH PANEL - OPEN CAB) (Hardware not Included.)	
20	7138846	1	Kit, Cab Panels - Enclosed Cab (Includes Items 1, 6 and additional panels 8, 20, 25, & 27 See INNER CONSOLE AND DASH PANEL - ENCLOSED CAB) (Hardware not Included.)	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-5. OPERATOR'S SEAT AND SEAT BELT



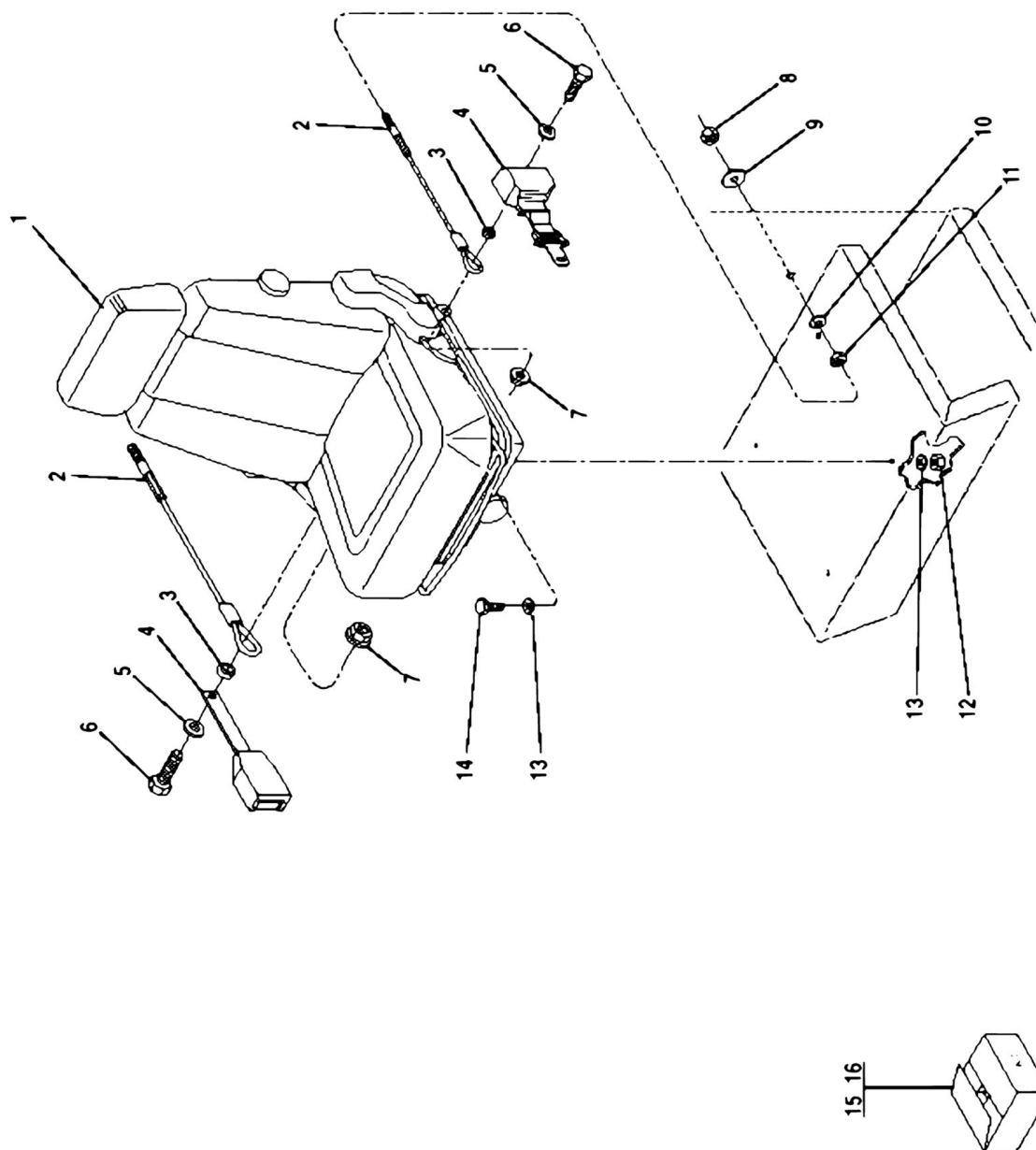
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-5. OPERATOR'S SEAT AND SEAT BELT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8864053	1	Seat Assembly (Includes Items 2 thru 8)	
2	8036009	1	Boot, 60/76mm (Not Shown)	
3	8036010	1	Adjuster, 6in (Not Shown)	
4	8036011	1	Damper (Not Shown)	
5	8036013	1	Rollers, Up Stop Bumper/Down Stop Bumper - 7/16in Dia (Not Shown)	
6	8036014	1	Springs and Cable (Not Shown)	
7	8036015	1	Hanger/Knob/Tension Shaft (Not Shown)	
8	8036017	1	Cushion/Pan Assembly Kit (Not Shown)	
9	7130412	2	Tether	
10	7096491	2	Spacer	
11	8864057	1	Seat Belt Assembly - 2in Retractable (Includes Items 12, 13, & 14)	
12	N.S.S.	2	Washer	
13	N.S.S.	2	HHCS	
14	N.S.S.	2	Nut, Hex	
15	8305645	2	Nut, Hex Lock Elastic 3/8in-16	
16	7057141	2	Washer, Rebound	
17	8307204	2	Washer, Flat 3/8in	
18	8305404	2	Nut, Hex Jam 3/8in-16	
19	8305626	8	Nut, Hex Lock Elastic 5/16in-18	
20	8307106	12	Washer, Flat 5/16in Narrow	
21	8303670	4	HHCS, 5/16in-18 x 1in Gr 5	
22	7121543	1	Support, Seat	
23	8864058	1	Seat Belt Assembly - 3in Retractable (Includes Mounting Hardware)	
24	8864019	1	Seat Belt Assembly - 3in Non-Retractable	
		Ref	N.S.S. = Not Sold Separately	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-6. SUSPENSION SEAT



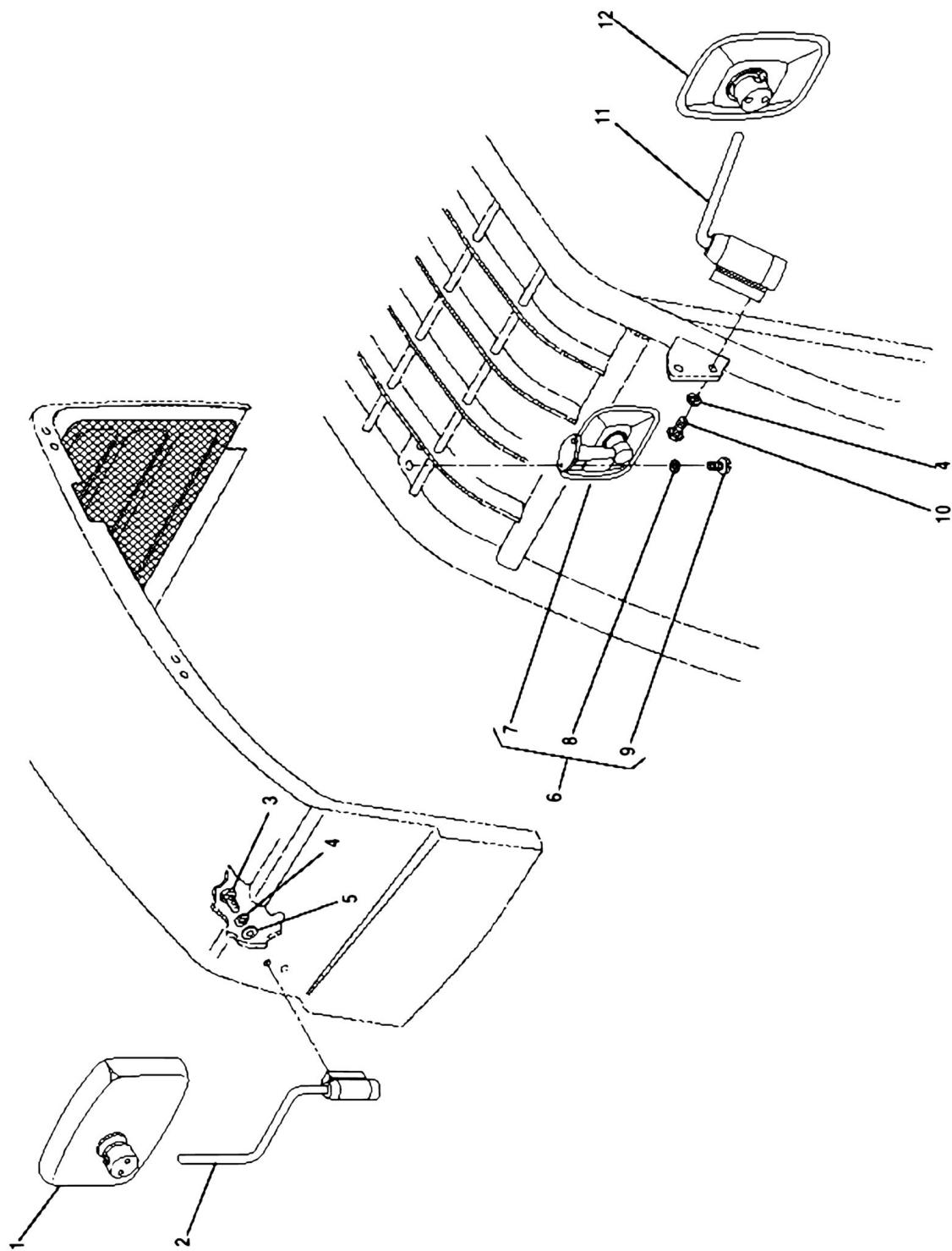
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-6. SUSPENSION SEAT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8864055	1	Seat, Deluxe Cloth with Suspension	
1	8864056	1	Seat, Deluxe Vinyl with Suspension	
2	7130412	2	Tether	
3	7096491	2	Spacer	
4	8864060	1	Seat Belt Assembly - 2in Retractable (Includes Items 5, 6, & 7)	
5	N.S.S.	2	Washer, Flat	
6	N.S.S.	2	HHCS	
7	N.S.S.	2	Nut, Hex	
8	8305645	2	Nut, Hex Lock Elastic 3/8in-16	
9	7057141	2	Washer, Rebound	
10	8307204	2	Washer, Flat 3/8in	
11	8305404	2	Nut, Hex Jam 3/8in-16	
12	8305626	4	Nut, Hex Lock Elastic 5/16in-18	
13	8307106	8	Washer, Flat 5/16in Narrow	
14	8303670	4	HHCS, 5/16in-18 x 1in Gr 5	
		Ref	N.S.S. = Not Sold Separately	
	Kit	1	KITS	
15	8864058	1	Seat Belt Assembly - 3in Retractable (Includes Mounting Hardware)	
16	8864019	1	Seat Belt Assembly - 3in Non-Retractable	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-7. MIRRORS



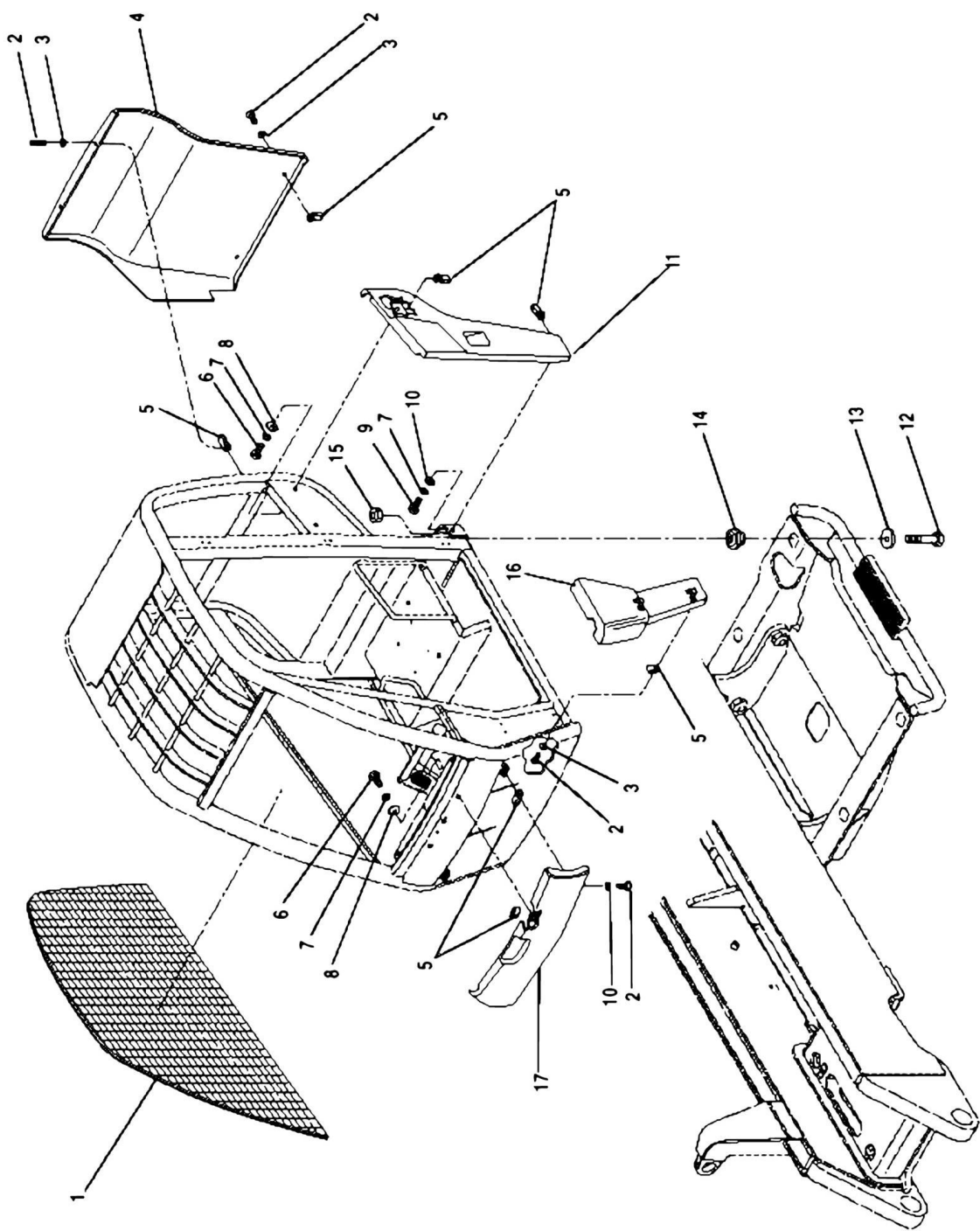
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-7. MIRRORS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8866514	1	Mirror Head, Convex	
2	8866515	1	Arm Assembly, Mirror	
3	8303544	2	HHCS, M6-1 x 20mm PC 8.8	
4	8307024	3	Washer, Lock M6	
5	8307219	3	Washer, Flat SAE 1/4in Light	
6	7136742	1	Kit, Right Side Mirror - Optional (Includes Items 7, 8, & 9)	
7	8866516	1	Mirror Assembly, Rear View	
8	8307003	1	Washer, Lock #10	
9	8303836	1	Screw, Slotted Round Hd #10-24 x 5/8in	
10	8303799	2	HHCS, M6-1 x 14mm	
11	8866530	1	Arm Assembly, Mirror	
12	8866529	1	Mirror, Rear View	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-8. OUTER PANELS - OPEN CAB



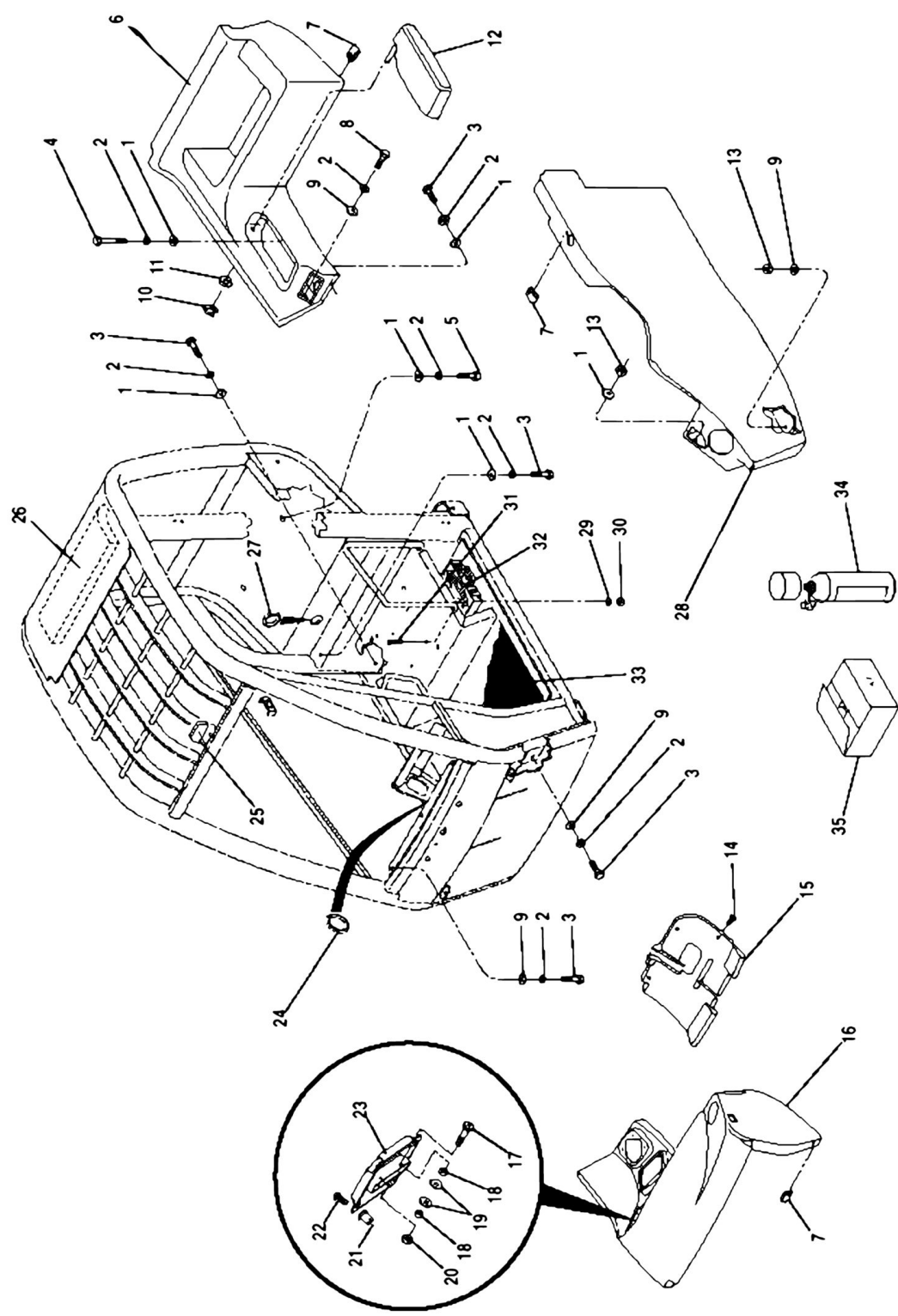
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-8. OUTER PANELS - OPEN CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7137152	1	Kit, Mesh Plate - Right Side	
2	8310301	10	BHCS, 5/16in-18 x 1in	
3	8310124	8	Washer, Flat Plastic 5/16in	
4	7130663	1	Panel, Cab Rear	
5	8305906	12	Nut, Retaining 5/16in-18	
6	8303670	4	HHCS, 5/16in-18 x 1in	
7	8307004	5	Washer, Lock 5/16in	
8	7057141	4	Washer, Rebound	
9	8303739	1	HHCS, 5/16in-18 NC x 1.25in	
10	8307203	3	Washer, Flat 5/16in	
11	7130653	1	Panel, Cab Rear - Left Side	
12	8310375	4	HHCS, 3/4in-10 x 3-3/4in Gr 8	
13	7129441	4	Washer, Rebound	
14	8278026	4	Isolator, Cab	
15	8310067	2	Nut, Hex Lock Elastic 3/4in-10	
16	7134453	1	Panel, Cab Front - Left Side	
17	7138864	1	Panel, Cab Front	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-9. INNER CONSOLE AND DASH PANEL - OPEN CAB



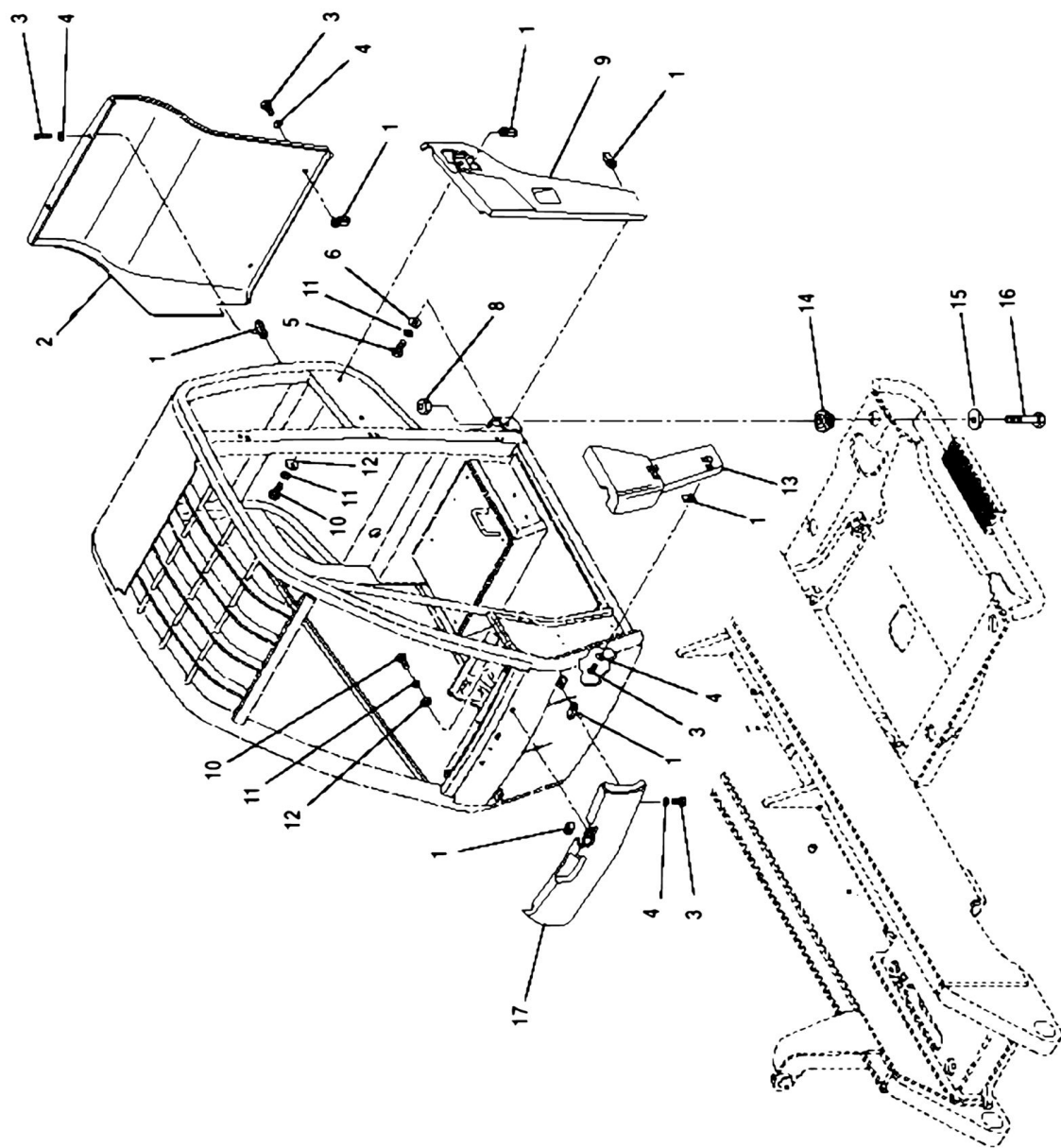
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-9. INNER CONSOLE AND DASH PANEL - OPEN CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7057141	7	Washer, Rebound	
2	8307004	10	Washer, Lock 5/16in	
3	8303739	6	HHCS, 5/16in-18 x 1-1/4in	
4	8310009	1	HHCS, 5/16in-18 x 2in	
5	8303746	1	HHCS, 5/16in-18 x 1-3/4in	
6	7130734	1	Tool Bin, Rear (See Kits)	
7	8310374	10	Nut, Retaining 5/16in-18	
8	8303697	1	HHCS, 5/16in-18 x 3/4in	
9	8307203	5	Washer, Flat 5/16in	
10	8630010	1	Ring, Retainer	
11	8307206	1	Washer, Flat 1/2in	
12	7130862	1	Armrest/Compartment Cover	
13	8305626	2	Nut, Hex Lock Elastic 5/16in-18	
14	8310353	3	Screw, Self Drilling #12-14 x 1in	
15	7130773	1	Cover, Lower Dash (See Kits)	
16	7138839	1	Dash, Front (See Kits)	
17	8310016	2	HHCS, Slotted #10-24 x 1in	
18	8310402	4	Spacer	
19	8310360	4	Washer, Fender	
20	8310085	2	Nut, Hex Lock Elastic #10-24	
21	8580421	4	Nut, Well #10-32 x 1/2in Long	
22	8310358	4	BHCS, #10-32 x 3/4in	
23	7131003	1	Holder, Load Chart	
24	7132751	1	Conduit, 1/4in x 9-1/2in Long	
25	8466306	1	Gauge, Tilt Angle	
26	7131412	1	Headliner	
27	7124531	1	Conduit, 1/4 x 5in Long	
28	7130744	1	Support, Console (See Kits)	
29	8307202	4	Washer, Flat 1/4in	
30	8305624	4	Nut, Hex Lock Elastic 1/4in-20	
31	8303034	4	BHCS, 1/4in-20 x 3/4in	
32	8990122	1	Holder, Owner/Operator's Manual	
33	7138963	1	Mat, Floor (Use Item 34 for Installation)	
34	8526042	AR	Adhesive, 3M #90 High Strength Spray	
35	7138844		Kit, Cab Panels - Open Cab (Includes Items 6, 15, 16, 28 and additional panels 1 & 6 See STEERING COLUMN AND SHIFTER ASSEMBLY) (Hardware not Included.)	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-10. OUTER PANELS - ENCLOSED CAB



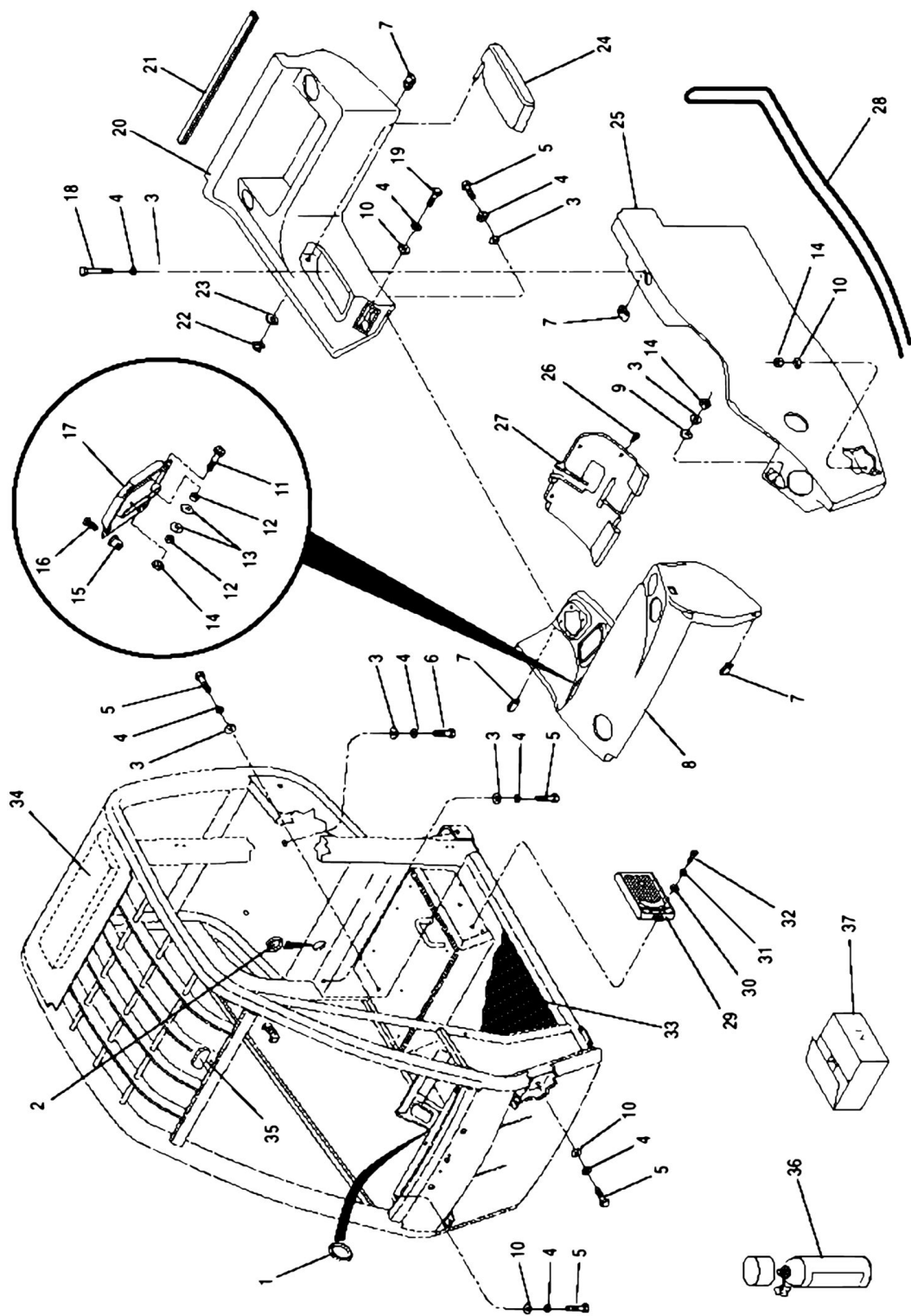
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-10. OUTER PANELS - ENCLOSED CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8305906	12	Nut, Retaining 5/16in-18	
2	7130663	1	Panel, Cab Rear	
3	8310301	10	BHCS, 5/16in-18 x 1in	
4	8310124	8	Washer, Flat Plastic 5/16in	
5	8303739	1	HHCS, 5/16in-18 x 1.25in Gr 5	
6	8307203	11	Washer, Plain 5/16in Wide	
7	8303670	4	HHCS, 5/16in-18 x 1in	
8	8310067	2	Nut, Hex Lock Elastic 3/4in-10	
9	7130653	1	Panel, Cab Rear LH	
10	8303670	5	HHCS, 5/16in-18 x 1in	
11	8307004	5	Washer, Lock 5/16in	
12	7057141	4	Washer, Rebound	
13	7134453	1	Panel, Cab Front LH	
14	8278026	4	Isolator, Cab	
15	7129441	4	Washer, Rebound	
16	8310375	4	HHCS, 3/4in-10 x 3-3/4in Gr 8	
17	7138865	1	Panel, Cab Front	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-11. INNER CONSOLE AND DASH PANEL - ENCLOSED CAB



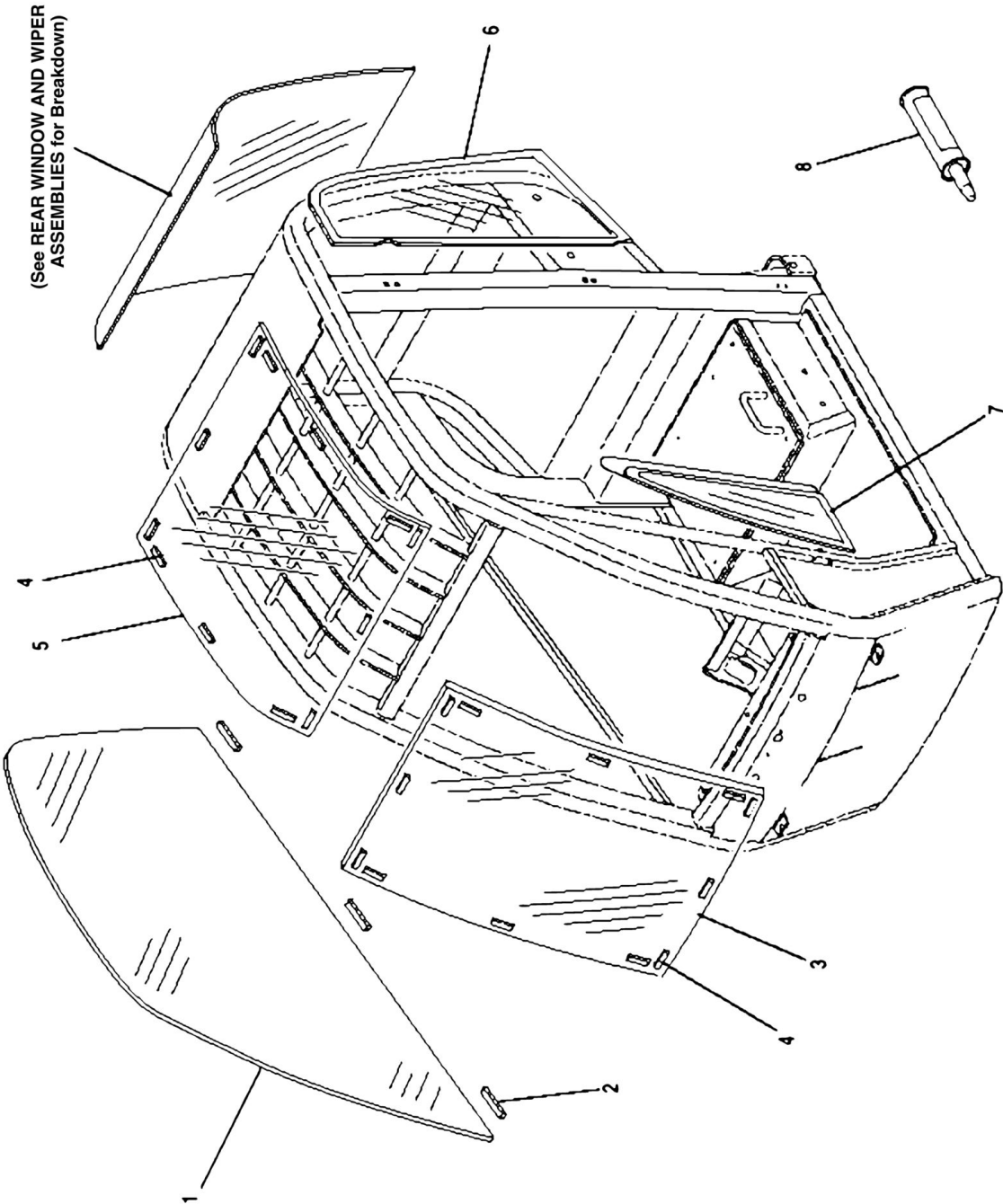
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-11. INNER CONSOLE AND DASH PANEL - ENCLOSED CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7132751	1	Conduit, 1/4in x 9-1/2in Long	
2	7124531	1	Conduit, 1/4in x 5in Long	
3	7057141	7	Washer, Rebound	
4	8307004	10	Washer, Lock 5/16in	
5	8303739	6	HHCS, 5/16in-18 x 1-1/4in	
6	8303746	1	HHCS, 5/16in-18 x 1-3/4in	
7	7138841	10	Nut, Retaining 5/16in-18	
8	7138841	1	Dash, Front (See Kits)	
9	8307203	1	Washer, Flat 5/16in	
10	8307203	5	Washer, Flat 5/16in	
11	8310016	2	HHCS, Slotted #10-24 x 1in	
12	8310402	4	Spacer	
13	8310360	4	Washer, Fender	
14	8310085	2	Nut, Hex Lock Elastic #10-24	
15	8580421	4	Nut, Well #10-32 x 1/2in Long	
16	8310358	4	BHCS, #10-32 x 3/4in	
17	7131003	1	Holder, Load Chart	
18	8310009	1	HHCS, 5/16in-18 x 2in	
19	7137664	1	HHCS, 5/16in-18 x 3/4in	
20	7137664	1	Tool Bin, Rear (See Kits)	
21	7138275	1	Neoprene Strip 1/2in x 1in x 28in Long	
22	8630010	1	Ring, Retaining	
23	8307206	1	Washer, Flat 1/2in	
24	7137364	1	Armrest/Compartment Cover	
25	7130744	1	Support, Console (See Kits)	
26	8310353	3	Screw, Self Drilling #12-14 x 1in	
27	7130773	1	Cover, Lower Dash (See Kits)	
28	7138275	1	Foam Strip, PSA 1/4in x 1/2in x 100in Long	
29	8990147	1	Holder, Owner/Operator Manual	
30	8307109	2	Washer, Flat 1/4in	
31	8307002	2	Washer, Lock 1/4in	
32	8303540	2	HHCS, 1/4in-20 x 1in Gr 5	
33	7138962	1	Floormat (Use Item 36 for Installation)	
34	7131412	1	Headliner	
35	8466306	1	Gauge, Tilt Angle	
36	8526042	1	Adhesive 3M #90 High Strength Spray	
	Kit	1	KITS	
37	7138846	1	Enclosed Cab - Inner Console Kit (Includes Items 8, 20, 25, 27 and Additional Panels 1 & 6 See STEERING COLUMN AND SHIFTER ASSEMBLY - Hardware not Included.)	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-12. GLASS - ENCLOSED CAB



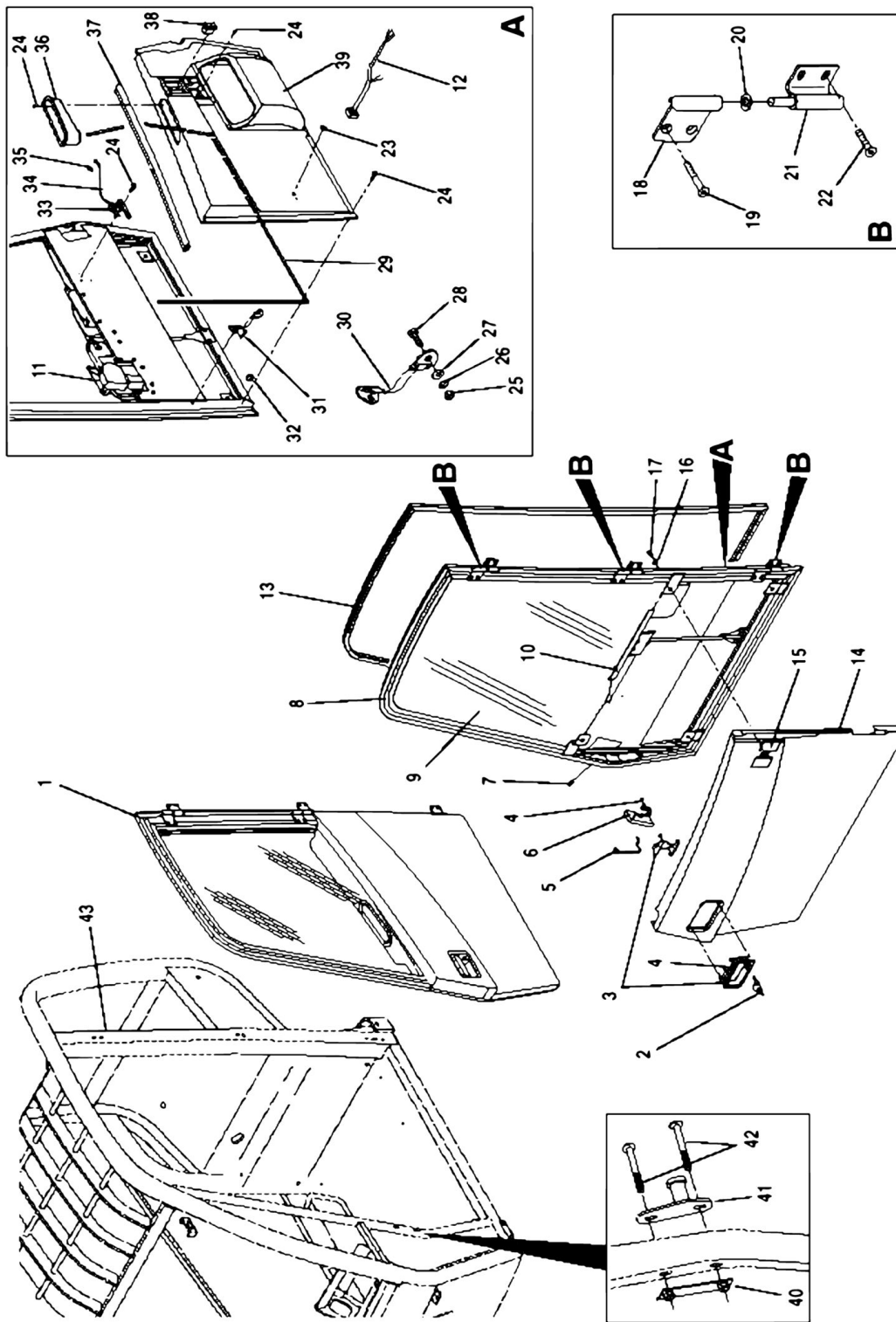
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-12. GLASS - ENCLOSED CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035294	1	Window, Right Side	
2	8035721	3	Block, Setting	
3	7136342	1	Windshield Kit, (Includes Glass, Setting Blocks, and Urethane Seal)	
4	8035490	24	Block, Setting, 1/8in x 1/4in x 2in	
5	8035527	1	Window, Skylight	
6	8035525	1	Window, Rear LH (Includes Glass, Frame and Urethane Seal)	
7	8035524	1	Window, Front LH (Includes Glass, Frame and Urethane Seal)	
8	8305523	1	Sealant, Urethane, High Viscosity	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-13. DOOR ASSEMBLY



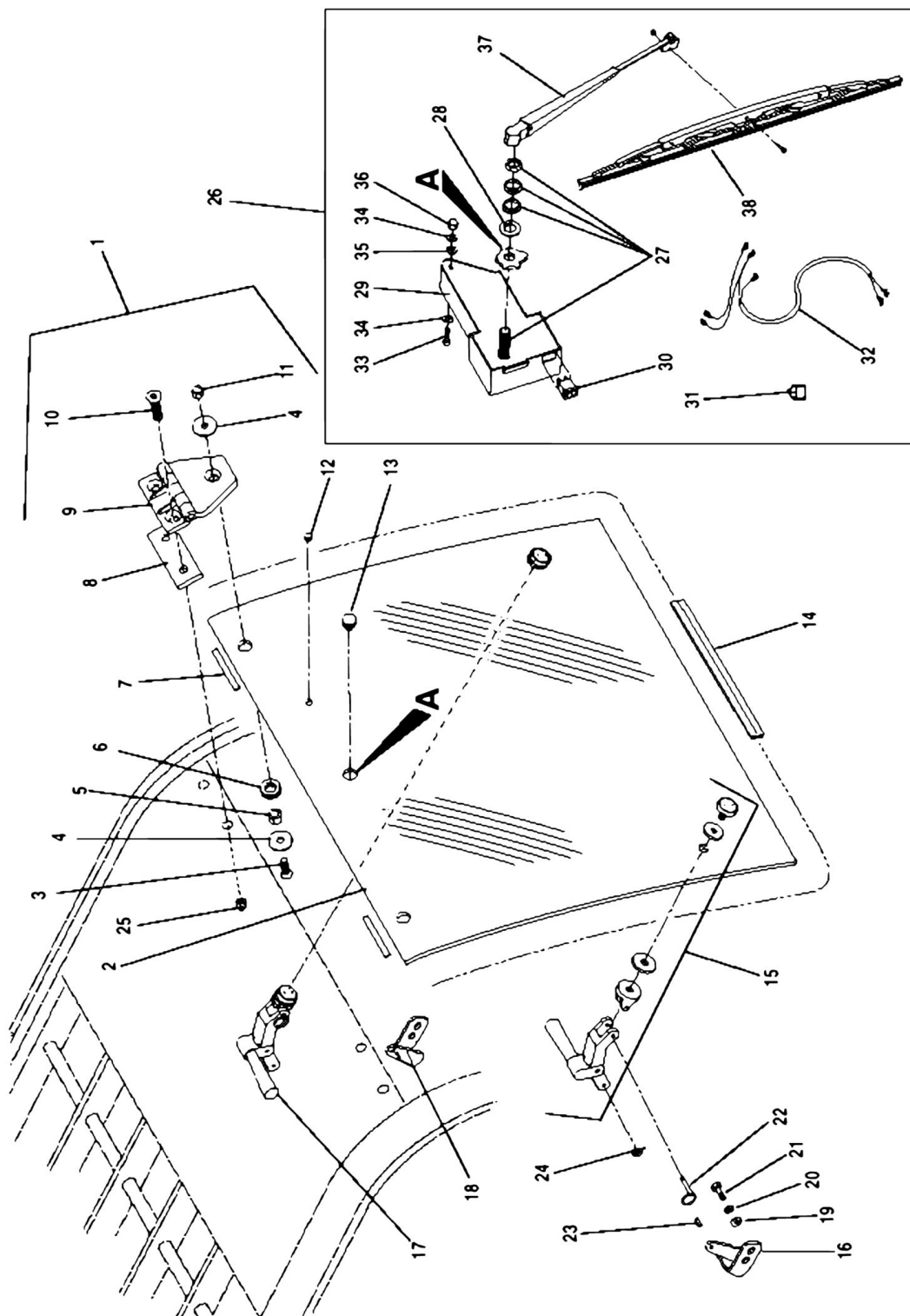
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-13. DOOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035470	1	Door Assembly - Enclosed Cab (Includes Items 2 thru 39)	
2	8342808	1	Key set, LL22	
3	8035441	1	Latch, Paddle - RH Black	
4	8035444	2	Retainer, Push On - 3/16in Rod	
5	8035452	1	Release Rod, Exterior	
6	8035439	1	Latch, Door	
7	8035466	4	Screw, Flat Head 1/4in-20 x 3/4in	
8	8035449	1	Door Rollup Window Assembly (Includes Items 9, 10 & 11)	
9	8035471	1	Glass, Door	
10	8036545	1	Channel, Glass	
11	8035473	1	Regulator, Electric Window 12V	
12	8035456	1	Wire Harness, LH Door	
13	8033072	1	Seal, Bulb 90, 192in Long	
14	8035451	1	Door Panel, Exterior	
15	8035464	4	U-Nut, 1/4in-20	
16	8035468	4	Washer, Flat .281 x 1.05 x .065 Thick	
17	8035463	4	Screw, Truss Hex Drive 1/4in-20 x 5/8in	
18	8035446	1	Top Hinge, Upper Half of	
18	8035447	1	Center Hinge, Upper Half of	
18	8035448	1	Bottom Hinge, Upper Half of	
19	8035461	6	Screw, Flat Hd Hex Drive 1/4in-20 x 1-1/4in	
20	8035460	3	Washer, Hinge Brass	
21	8035457	1	Top Hinge, Lower Half of	
21	8035458	1	Center Hinge, Lower Half of	
21	8035459	1	Bottom Hinge, Lower Half of	
22	8033058	6	Screw, 1/4in-20 x 3/4in Whizlock	
23	8035467	1	Grommet, 3/8in I.D. x 5/8in O.D.	
24	8035440	10	Screw, Pan Hd #10-16 x 3/4in	
25	8034798	1	Nut, Hex 5/16in-18 Gr 8 Yellow	
26	8034799	1	Washer, Lock .315 x .575 x .085 Thick	
27	8035435	1	Washer, Lock .315 x .750 x .060 Thick	
28	8035445	1	Bolt, Hex 5/16in-18 x 1in Gr. 8	
29	8037206	1	Seal, "D" Type Bulb .216 x .354 x 54in	
30	8035442	1	Strap, Door Restraint	
31	8035437	1	Screw, 1/4in-20 x 3/4in	
32	8035436	1	Grommet, 3/4in O.D. x 1/2in I.D.	
33	8035438	1	Handle, Door - Inside	
34	8035453	1	Release Rod, Interior	
35	8035462	1	Retainer, Clip On	
36	8035454	1	Pocket, Interior Door Panel	
37	8035443	1	Door Seal w/Flap - 70in	
38	8035455	1	Switch, Electric Window	
39	8035450	1	Door Panel, Interior	
40	8035529	1	Striker Assembly, Blind Nut Plate	
41	8035528	1	Weldment, Striker Plate	
42	8035526	2	Bolt, .323-18 x 2.0 Truss Black	
43	8035722	1	Tape, Vinyl, Matte Black	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-14. REAR WINDOW AND WIPER ASSEMBLIES



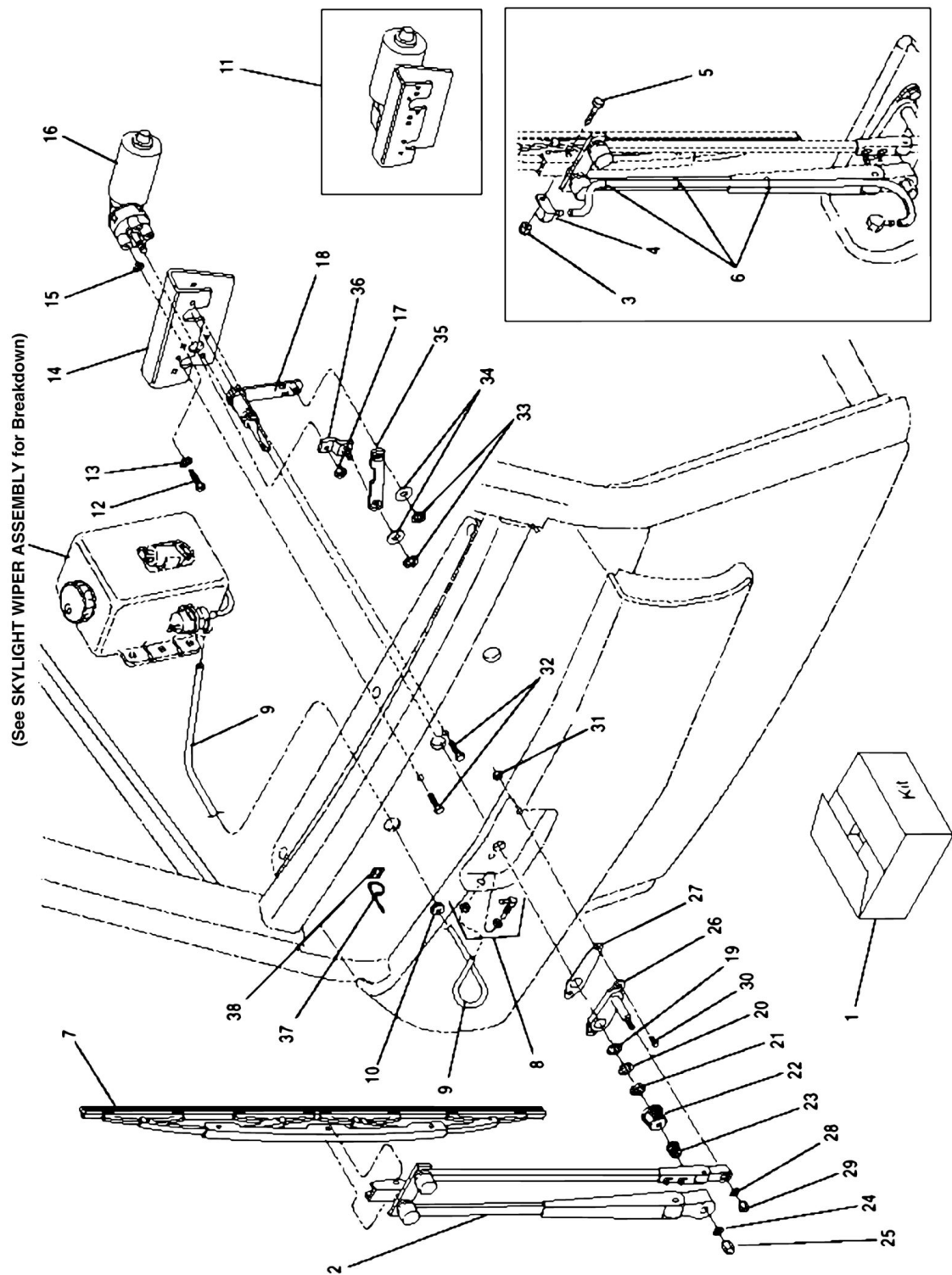
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-14. REAR WINDOW AND WIPER ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035606	1	Rear Window Assembly (Includes Items 2 thru 24)	
2	8035474	1	Glass	
3	8035491	4	Screw, Truss, Hd 1/4in-20 x 1-1/4in	
4	8035468	4	Washer, Flat	
5	8035478	2	Bushing, Plastic	
6	8035477	2	Grommet	
7	8035490	2	Setting Block, 1/8in x 1/4in x 2in	
8	8035476	2	Spacer, Hinge	
9	8035475	2	Hinge, Plastic	
10	8035414	4	Screw, Truss, 1/4in-20 x 1in	
11	8035479	2	Nut, Acorn 1/4-20	
12	8035488	1	Plug, Plastic 1/2in Dia	
13	8035489	1	Plug, Plastic 7/8in Dia	
14	8037206	1	Seal, Bulb "D"	
15	8035480	1	Hold, Open - LH	
16	8035482	1	Bracket, Hold Open - LH	
17	8035481	1	Hold, Open - RH	
18	8035483	1	Bracket, Hold Open - RH	
19	8035415	4	Washer, Flat 9/32in x 5/8in Black	
20	8035416	4	Washer, Lock 1/4in Black	
21	8035487	4	Screw, Truss Hd 1/4in-20 x 5/8in Black	
22	8035484	2	Pin, Detent Ring	
23	8035486	2	Pin, Roll	
24	8035485	2	Washer, Flat 1/4in x 5/8in	
25	8036280	2	Rivnut .250-20	
26	8036274	1	Wiper Assembly, Rear Window (Includes Items 27 thru 38)	
27	8035506	1	Motor, Wiper - Rear Window (Includes 2 Washers & 1 Nut)	
28	8034808	1	Spacer, Nylon	
29	8035511	1	Cover, Wiper Motor	
30	8035509	1	Switch, Rocker SPST	
31	8035501	1	Clip, Wiring - Adhesive Back	
32	8035510	1	Harness, Wire - Rear Window	
33	8035507	1	Screw, Rd Hd #10-24 x 7/8in	
34	8033087	2	Washer, Flat - Nylon Black	
35	8034803	1	Grommet, Rubber T-Style	
36	8034805	1	Nut, Acorn #10-24	
37	8035500	1	Arm, Wiper, 10.75 - 15 Black	
38	8035508	1	Blade, Wiper 1/4in Flex Black	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-15. FRONT WINDSHIELD WIPER ASSEMBLY



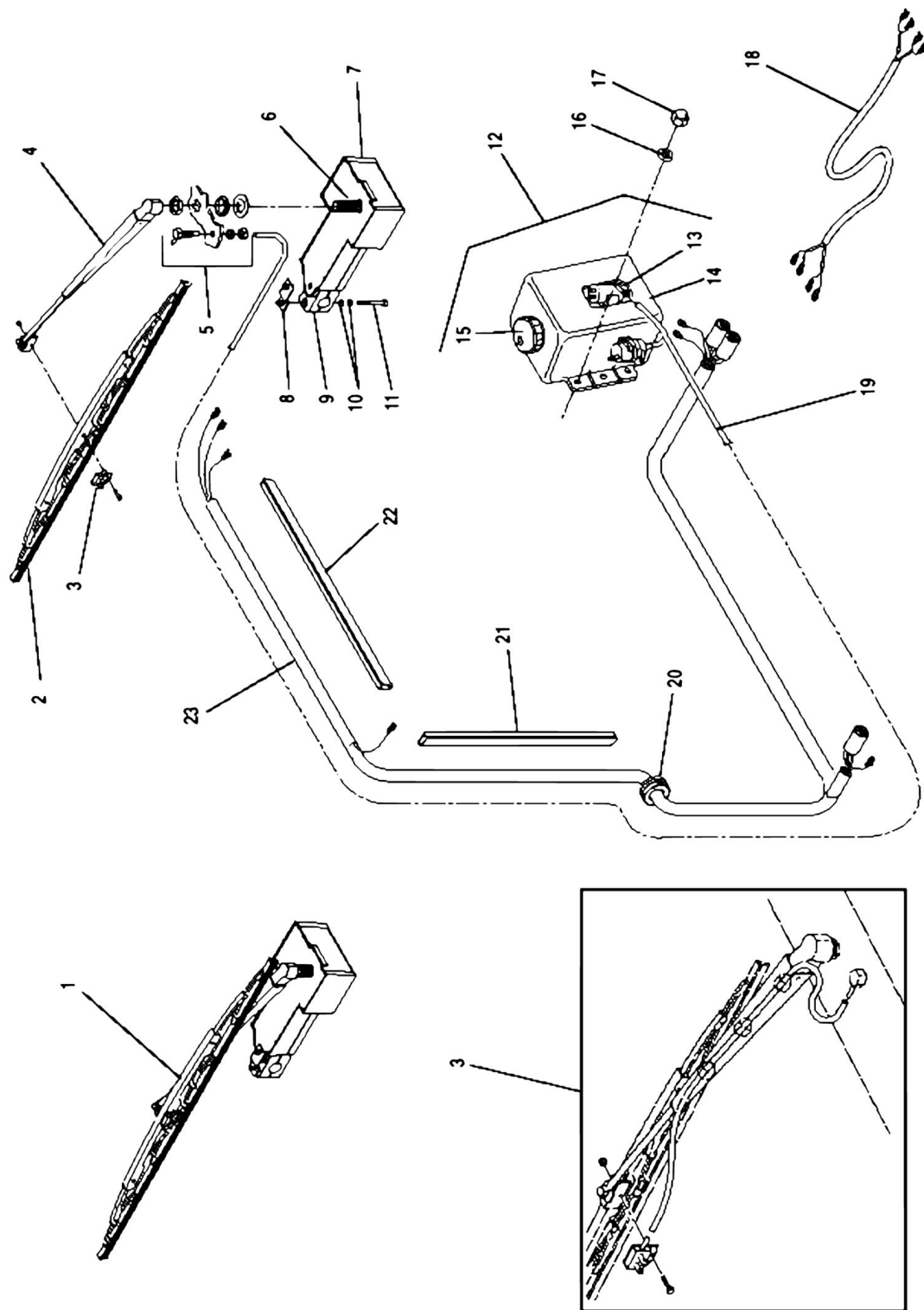
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-15. FRONT WINDSHIELD WIPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036273	1	Front Windshield Wiper Assembly (Kit Includes Items 2 thru 36)	
2	8035393	1	Wiper Arm, 24in Flex (Includes Items 3 thru 6)	
3	N.S.S.	1	Locknut	
4	N.S.S.	1	Sprayer Nozzle	
5	N.S.S.	1	Bolt	
6	N.S.S.	3	Clips, Hose	
7	8035392	1	Blade, Wiper 28in	
8	8035390	1	Wet Kit	
9	8035395	1	Hose, Clear Vinyl - 144in	
10	8035394	1	Grommet, Rubber 1/4in I.D.	
11	8033102	1	Wiper Motor Assembly (Includes Items 12 thru 17)	
12	N.S.S.	3	HHCS, Slotted 1/4in-28 x 3/4in	
13	8310002	3	Washer, External Tooth 1/4in	
14	N.S.S.	1	Bracket, Wiper Motor	
15	8307203	3	Washer, Flat 5/16in	
16	N.S.S.	1	Motor, Wiper	
17	8305006	1	Nut, Hex Flanged 5/16in-18	
18	8866492	1	Wiper Shaft and Pivot Assembly (Includes Items 19 thru 25)	
19	N.S.S.	1	Washer, Cardboard	
20	N.S.S.	1	Washer, Metal	
21	N.S.S.	1	Nut, Hex Jam 11/16in-24	
22	N.S.S.	1	Cap, Rubber	
23	N.S.S.	1	Driver, Knurled	
24	N.S.S.	1	Washer, Internal Tooth Lock 3/8in	
25	N.S.S.	1	Nut, Acorn 1/4in-28	
26	8034815	1	Panto Adapter Kit (Includes Items 27 thru 29)	
27	N.S.S.	1	Gasket, Panto	
28	8310029	1	Washer, Internal Tooth Lock 1/4in	
29	N.S.S.	1	Nut, Acorn 1/4in-28	
30	8033856	2	Screw, Tress 1/4in-20 x 3/4in - Black	
31	8035391	2	Nut, Center Lock - Black	
32	8033110	2	Screw, Hex 1/4in-28 x 3/4in - Black	
33	N.S.S.	2	Clip, Spring	
34	N.S.S.	2	Washer, Special Flat. 560 x .251 x .015	
35	8035409	1	Link, Connecting	
36	8035411	1	Drive Arm .95in Long	
37	8584001	1	Plastic Tie	
38	8584018	1	Mount Tie	
		Ref	N.S.S. = Not Sold Separately	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-16. SKYLIGHT WIPER ASSEMBLY



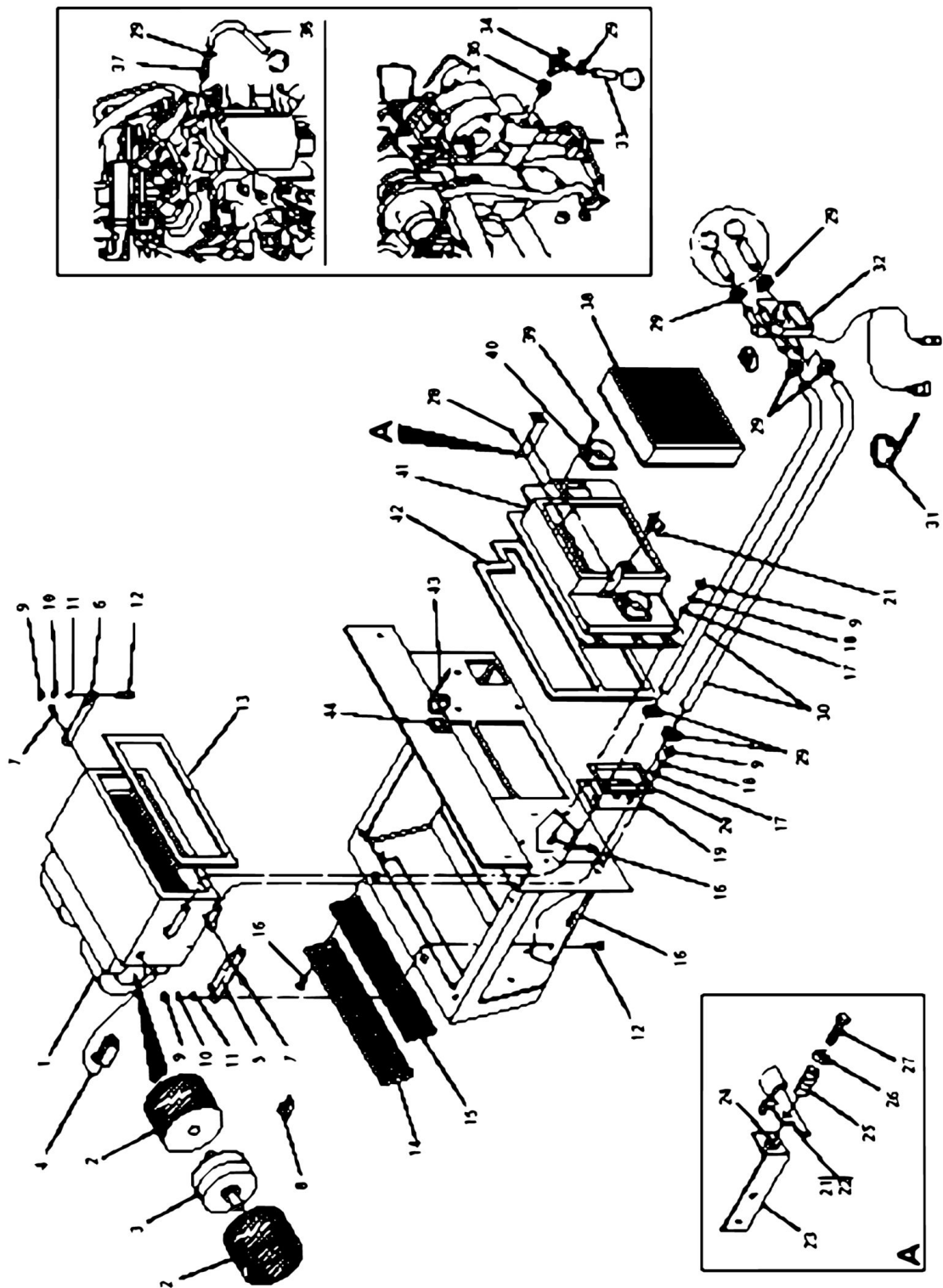
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-16. SKYLIGHT WIPER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036275	1	Wiper Assembly, Skylight Window (Includes Items 2 thru 11)	
2	8035498	1	Blade, Wiper 20in Flex - Black	
3	8035499	1	Wet Arm Kit	
4	8035500	1	Arm, Wiper, Black	
5	8035390	1	Wet Arm Adapter	
6	8035492	1	Motor, Skylight Wiper	
7	8035493	1	Cover, Wiper	
8	8035497	1	Plate, Blind Nut	
9	8035496	1	Clamp, Block 3/4in	
10	8035495	1	Washer, Flat - Black (Zinc)	
11	8035494	1	Bolt, Socket Head #10-24 x 1-3/4in	
12	8035410	1	Washer Reservoir Assembly, (Includes Items 13, 14, & 15)	
13	8035531	2	Pump Motor	
14	N.S.S.	1	Reservoir	
15	N.S.S.	1	Reservoir, Cap	
16	8035416	3	Lock Washer, 1/4in x .49 O.D. x .07	
17	8035479	3	Nut Acorn, 1/4in-20, Black	
18	7138250	1	Jumper Wire Harness, Washer Bottle	
19	8035501	1	Hose, Clear	
20	8035505	1	Grommet 3/4in O.D. 1/2in I.D.	
21	8035504	1	Conduit, Split 30in	
22	8036276	1	Conduit, Split	
23	8035503	1	Harness, Wiper	
		Ref	N.S.S. = Not Sold Separately	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-17. HEATER ASSEMBLY - ENCLOSED CAB



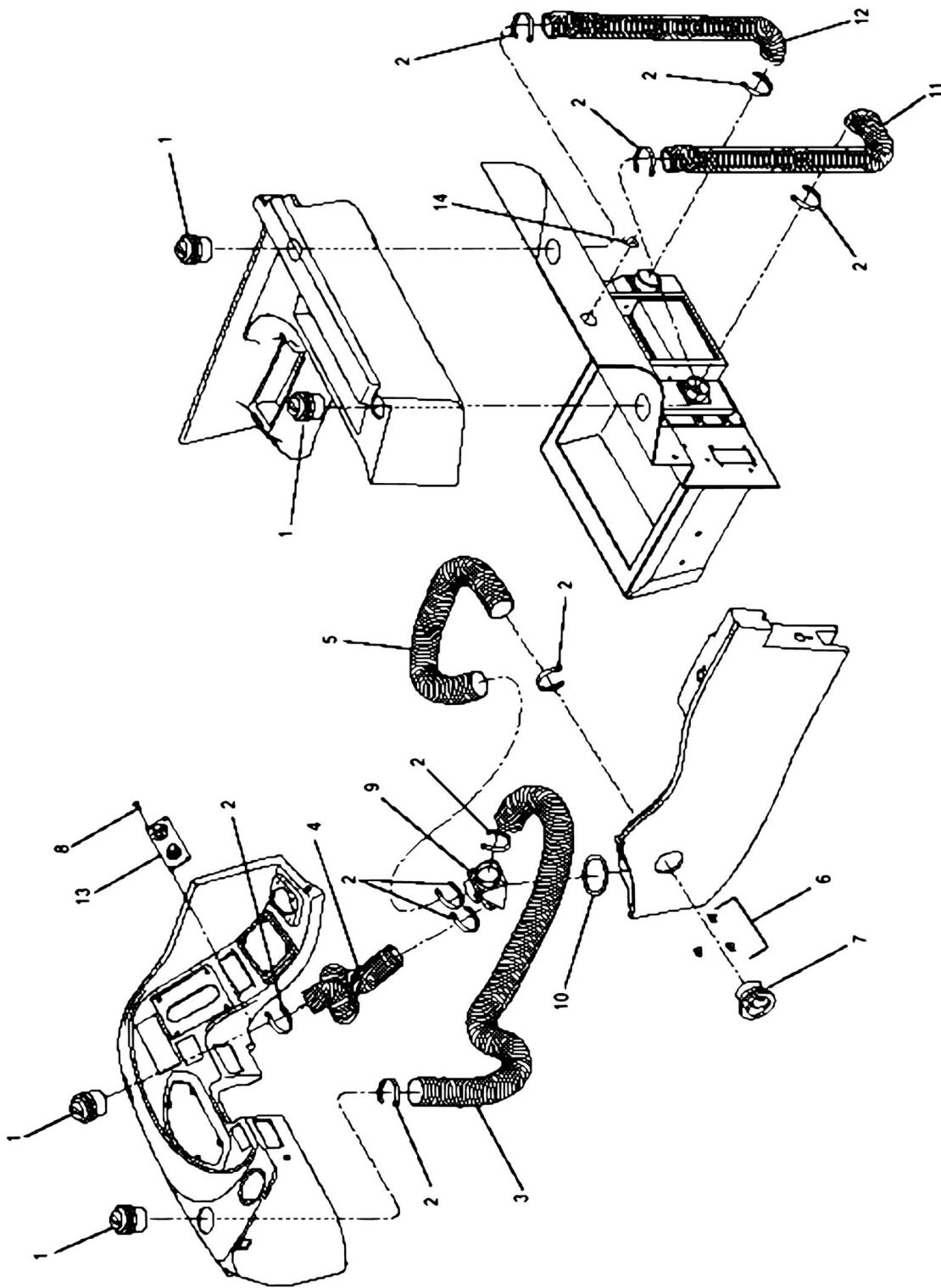
SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-17. HEATER ASSEMBLY - ENCLOSED CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138530	1	Heater Assembly (Includes Items 2 thru 8)	
2	8036301	2	Blower Wheel	
3	8036300	1	Motor, 12V	
4	8220912	1	Connector, 7 Way 280 Series	
5	7139035	1	Angle, LH Side	
6	7139036	1	Angle, RH Side	
7	8310498	4	Screw, M6 x 12 - Whizlock	
8	8036302	1	Resistor, 12V (Not Shown)	
9	8035417	13	Nut, Hex 1/4in-20	
10	8307002	4	Washer, Lock 1/4in	
11	8307109	4	Washer, Plain 1/4in	
12	8303736	4	Screw, HHC 1/4-20 x 1/2in	
13	8033032	1	Sponge Rubber, Adhesive Backed, 80in	
14	8035434	1	Holder, Foam Filter	
15	8035389	1	Foam Filter, Recirculate	
16	8035414	11	Screw, 1/4in-20 x 1in	
17	8035415	9	Washer, Flat .281 x .625	
18	8035416	9	Washer, Lock .254 x .480 - Black	
19	8035427	1	Grommet	
20	8035428	1	Plate, Grommet	
21	8035425	1	Latch, LH - Filter Hold Down	
22	8035426	1	Latch, RH - Filter Hold Down	
23	8035423	2	Angle, Filter Clamp	
24	8035424	2	Rivnut, 5/16in Hex	
25	8035432	2	Spring, Compression 1/2in x 7/8in	
26	8035435	2	Washer, Flat 5/16in	
27	8035433	2	Bolt, Hex 5/16in-18 x 1-1/2in Yellow	
28	8035422	4	Rivet, Pop 3/16in x 1/2in	
29	8410009	8	Clamp, Hose SAE #10	
30	7138317	2	Hose, Heater .625 I.D. x 24in Long	
31	8035406	10	Plastic Tie	
32	8360015	1	Valve, Heater - Motorized w/Harness	
33	7139099	1	Hose, Heater, Engine Inlet 86.5in	
34	8360005	1	Valve, Shut-off	
35	8540023	1	Reducer, Pipe Thread 8-6P	
36	7139101	1	Hose, Heater, Engine Outlet 153in	
37	8430048	1	Reducer, Pipe Thread 10-8P	
38	8035388	1	Air Filter w/Seal	
39	8036126	8	Screw, Self Tapping #8-32 x 1/2in	
40	8035431	2	Adapter, Hose 2-1/2in Dia	
41	8035412	1	Plenum	
42	8035430	1	Foam, PSA 3/16in x 5/8in x 84in	
43	8584001	2	Plastic Tie	
44	8584018	2	Mount, Tie	

SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

FIGURE 3-18. HEATER HOSES AND VENTS - ENCLOSED CAB



SECTION 3 - FRAME AND OPERATOR'S COMPARTMENT

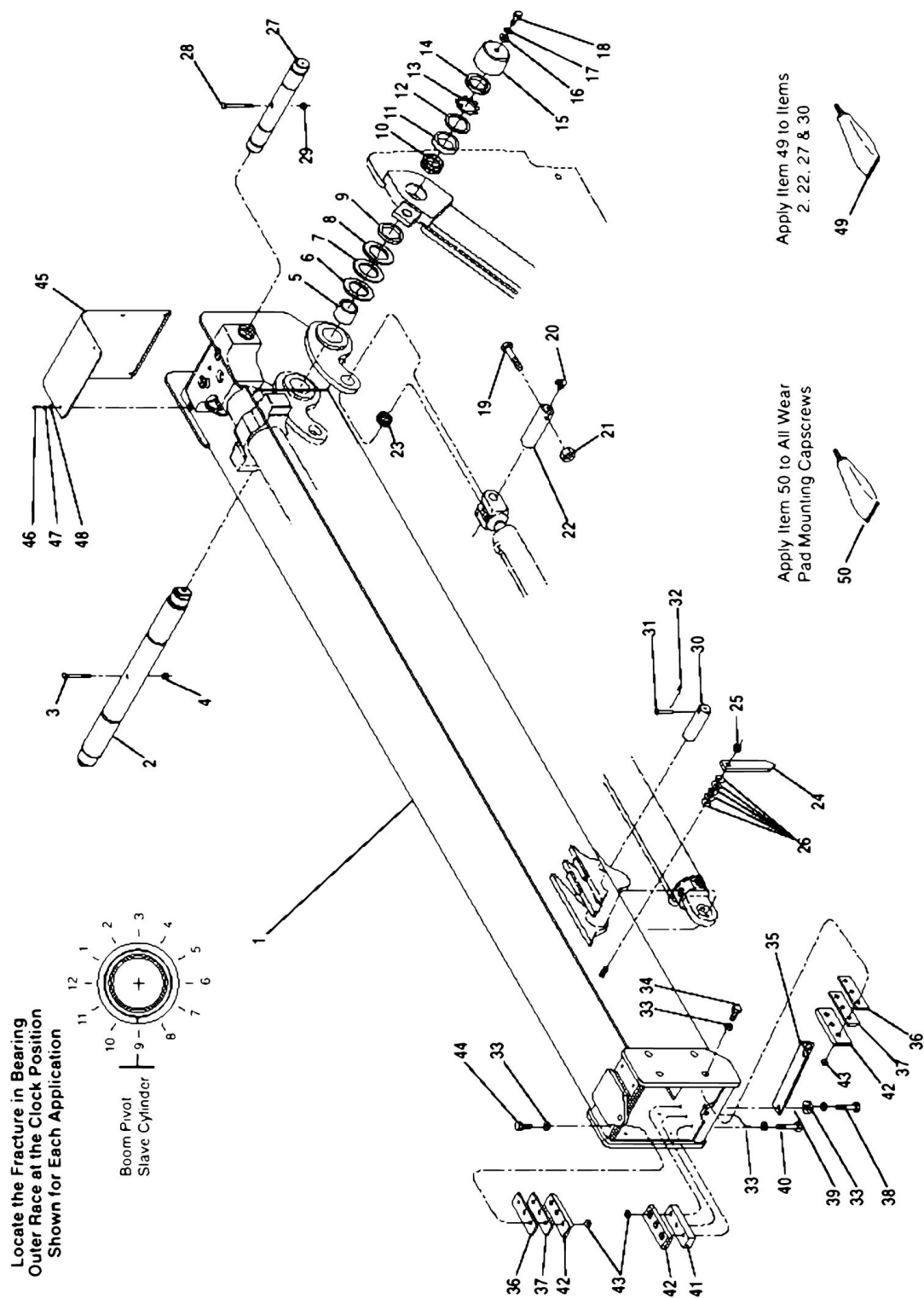
FIGURE 3-18. HEATER HOSES AND VENTS - ENCLOSED CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035398	4	Louver, Ball	
2	8035406	10	Tie Strap, Nylon 3/16in Wide x 12in Long	
3	8035405	1	Hose, Flex 2-1/2in Dia Front LH Vent - 40in Long	
4	8035404	1	Hose, Flex 2-1/2in Dia Front RH Vent - 30in Long	
5	8035403	1	Hose, Flex 2-1/2in Dia Center Vent - 18in Long	
6	6620971	3	Clips	
7	8035402	1	Louver, Round	
8	8036126	8	Screw, Self Tapping #8-32 x 1/2in	
9	8036299	1	Vent Manifold Assembly	
10	8033032	1	Sponge Rubber, Adhesive Backed	
11	8035400	1	Hose, Flex 2-1/2in Dia Rear LH Vent - 37in Long	
12	8035399	1	Hose, Flex 2-1/2in Dia Rear RH Vent - 33in Long	
13	7138691	1	Panel, Heater Control	
14	7124531	1	Conduit, 1/4in x 5in Long	

SECTION 4 - BOOM ASSEMBLY

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-1. OUTER BOOM ASSEMBLY (HIGH PIVOT)



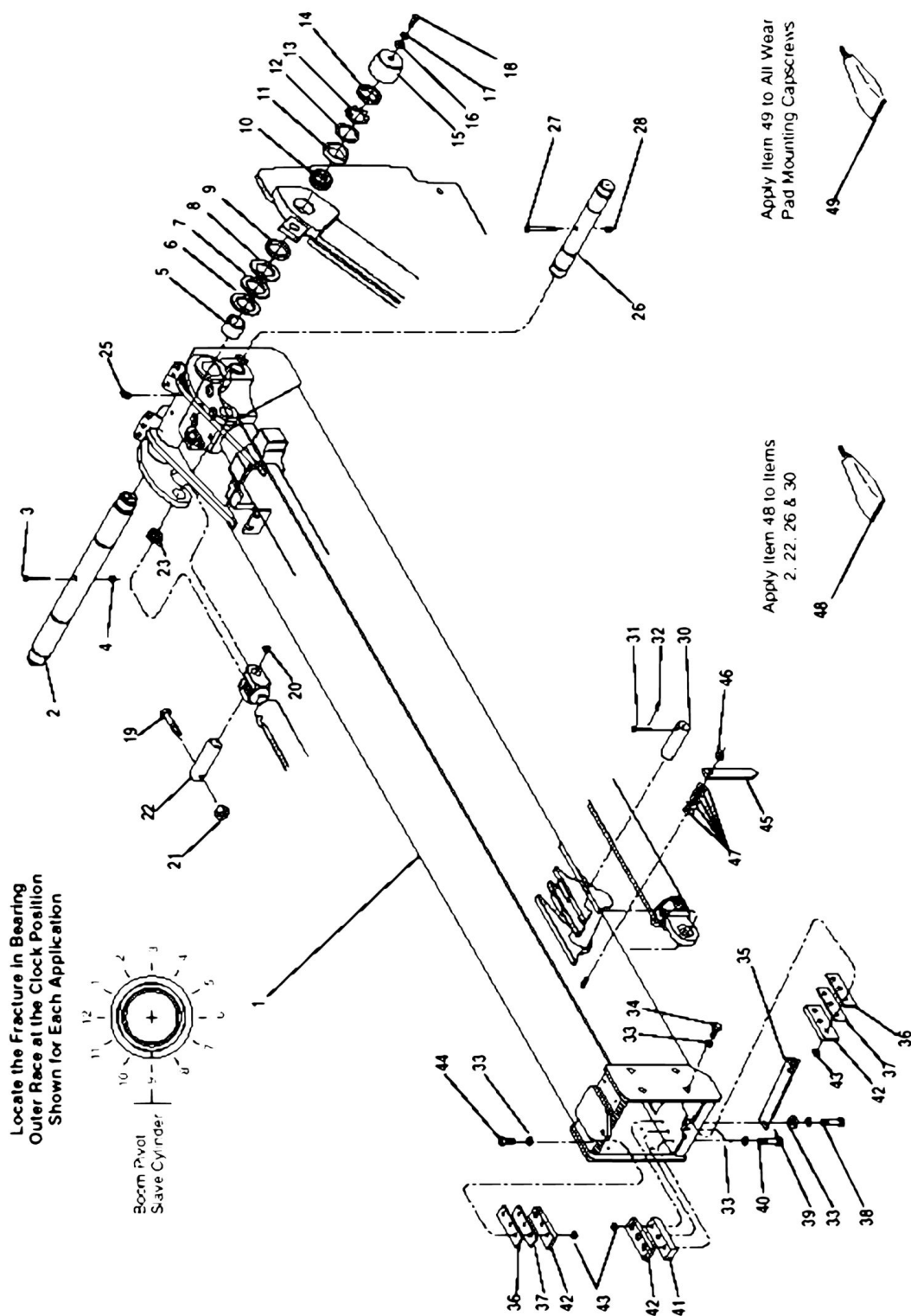
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-1. OUTER BOOM ASSEMBLY (HIGH PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138193	1	Boom, Outer, High Pivot	
2	7139405	1	Pin, Boom Pivot	
3	8310076	1	HHCS, 5/8-11 x 7in Gr 5	
4	8305643	1	Nut, Hex Lock Elastic 5/8in-11	
5	7137772	2	Bushing, Boom Pivot	
6	8310259	2	Shim, 3.06in x 0.09in x 4.75in	
7	8307913	2	Shim, 3.06in x 0.12in x 4.75in	
8	8307912	2	Shim, 3.06in x 0.06in x 4.75in	
9	7139330	2	Spacer	
10	8050007	2	Bearing, Self Align	
11	7139331	2	Spacer	
12	8310550	2	Bushing, Machine	
13	8310531	2	Washer, Lock, Ext Tooth	
14	8310532	2	Nut, Lock, Bearing Retention	
15	7139554	2	Cap, Boom Pivot Pin	
16	8307104	2	Washer, Flat 3/4in	
17	8307010	2	Washer, Lock 3/4in	
18	8310549	2	HHCSF 3/4in-10 x 1in GR 5	
19	8303752	2	HHCS, 5/16-18 x 3-1/2in	
20	8520003	2	Fitting, Lube, 90	
21	8305626	2	Nut, Hex Lock 5/16in-18	
22	7137142	2	Pin, Slave Cylinder	
23	8050001	2	Bearing, Self Align	
24	7075611	1	Pointer, Boom Angle Indicator	
25	8305647	1	Nut, Hex Lock 7/16-14	
26	8307113	5	Washer, Plain 7/16in Narrow	
27	7139158	1	Pin, Trunnion	
28	8310209	1	HHCS 1/2in-13 x 6in Gr 5	
29	8305643	1	Nut, Hex Lock Elastic 5/8in-11	
30	7139324	1	Pin, Hoist Cylinder	
31	7139502	1	Pin, Clevis, Hoist Keeper	
32	8130211	1	Hair Pin (Cotter) .143	
33	8307005	18	Washer, Lock 3/8in	
34	8303681	18	HHCS, 3/8in-16 X 3/4in Gr 5	
35	7138642	1	Bracket, Bulkhead, Boom Tube	
36	7126172	AR	Shim, Wear Pad .13in Thk	
37	7126182	AR	Shim, Wear Pad .07in Thk	
38	8303679	2	HHCS, 3/8in-16 x 3/4in Gr 5	
39	8307204	2	Washer, Plain 3/8in Wide	
40	8303621	4	HHCS, 3/8in-16 x 2in Gr 5	
41	7135442	2	Spacer, Wear Pad	
42	7111572	8	Wear Pad	
43	7135432	18	Insert, Wear Pad	
44	8303675	4	HHCS, 3/8in-16 x 1-1/4in Gr 5	
45	7139429	1	Cover, Rear Boom	
46	8303005	4	HHCS, 1/4in-20 x 7/8in	
47	8307002	4	Washer, Lock, 1/4in	
48	8307202	4	Washer, Plain, 1/4in	
49	8522012	AR	Lube, Anti-Seize	
50	8526007	AR	Thread Locking Compound	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-2. OUTER BOOM ASSEMBLY (LOW PIVOT)



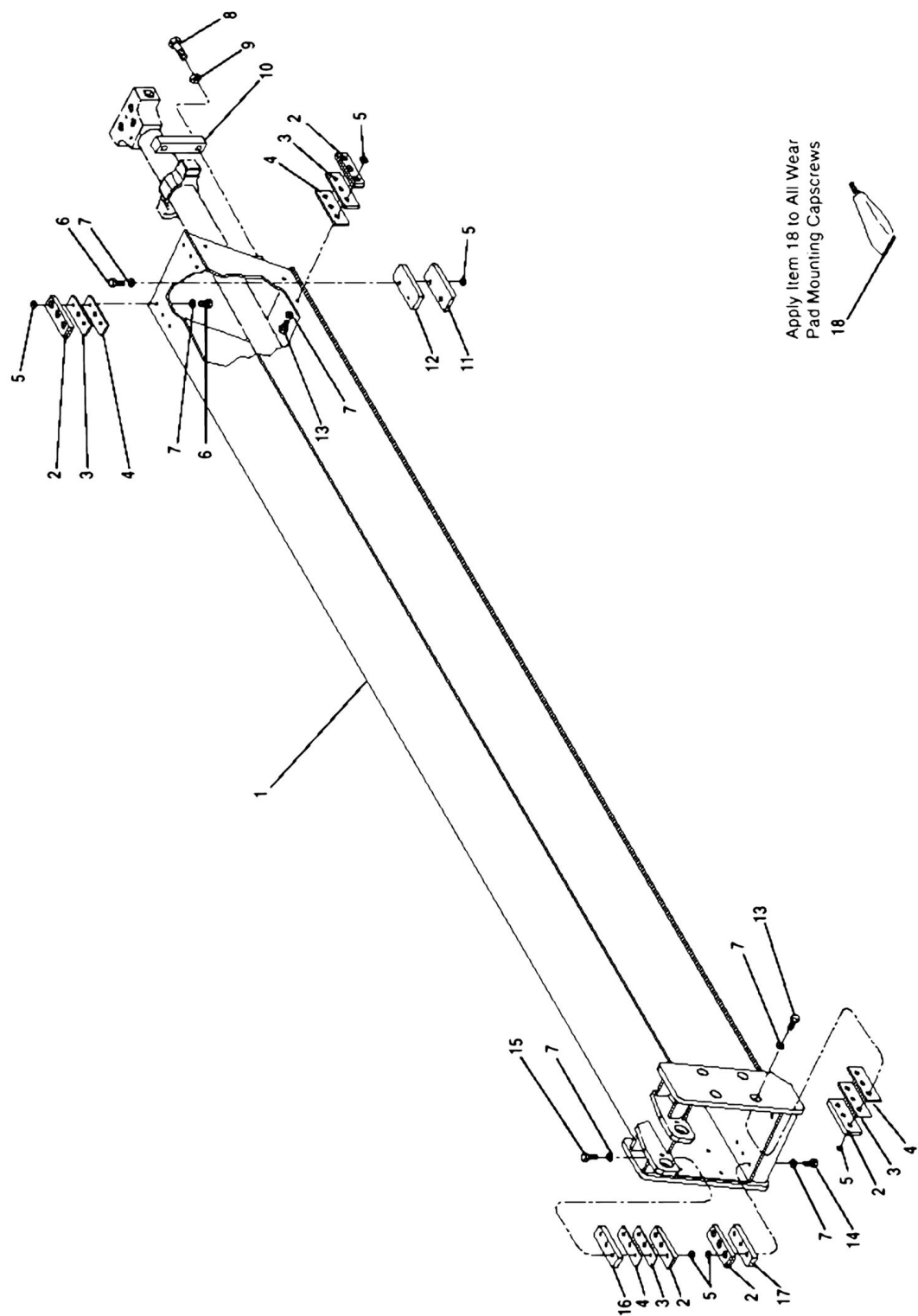
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-2. OUTER BOOM ASSEMBLY (LOW PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138193	1	Boom, Outer, Low Pivot	
2	7136852	1	Pin, Boom Pivot	
3	8305643	1	Nut, Hex Lock Elastic 5/8in-11	
4	7137772	2	Bushing, Boom Pivot	
5	7137772	2	Bushing, Boom Pivot	
6	8310259	2	Shim, 3.06in x 0.09in x 4.75in	
7	8307913	2	Shim, 3.06in x 0.12in x 4.75in	
8	8307912	2	Shim, 3.06in x 0.06in x 4.75in	
9	7139330	2	Spacer	
10	8050007	2	Bearing, Self Align	
11	7139331	2	Spacer	
12	8310550	2	Bushing, Machine	
13	8310531	2	Washer, Lock, Ext Tooth	
14	8310532	2	Nut, Lock, Bearing Retention	
15	7139554	2	Cap, Boom Pivot Pin	
16	8307104	2	Washer, Flat 3/4in	
17	8307010	2	Washer, Lock 3/4in	
18	8310549	2	HHCSF 3/4in-10 x 1in GR 5	
19	8303752	2	HHCS, 5/16-18 x 3-1/2in	
20	8520003	2	Fitting, Lube, 90	
21	8305626	2	Nut, Hex Lock 5/16in-18	
22	7137142	2	Pin, Slave Cylinder	
23	8050001	2	Bearing, Self Align	
24	8310076	1	HHCS, 5/8-11 x 7in Gr 5	
25	8520021	2	Fitting, Lubrication 90	
26	7139158	1	Pin, Trunnion	
27	8310209	1	HHCS 1/2in-13 x 6in Gr 5	
28	8305643	1	Nut, Hex Lock Elastic 5/8in-11	
29	8305643	1	Nut, Hex Lock Elastic 5/8-11	
30	7139324	1	Pin, Hoist Cylinder	
31	7139502	1	Pin, Clevis, Hoist Keeper	
32	8130211	1	Hair Pin (Cotter) .143	
33	8307005	18	Washer, Lock 3/8in	
34	8303681	8	HHCS, 3/8-16 X 3/4in Gr 5	
35	7138642	1	Bracket, Bulkhead, Boom Tube	
36	7126172	AR	Shim, Wear Pad .13in Thk	
37	7126182	AR	Shim, Wear Pad .07in Thk	
38	8303679	2	HHCS, 3/8-16 x 3/4in Gr 5	
39	8307204	2	Washer, Plain 3/8in Wide	
40	8303621	4	HHCS, 3/8-16 x 2in Gr 5	
41	7135442	2	Spacer, Wear Pad	
42	7111572	8	Wear Pad	
43	7135432	18	Insert, Wear Pad	
44	8303675	4	HHCS, 3/8-16 x 1-1/4in Gr 5	
45	7075611	1	Pointer, Boom Angle Indicator	
46	8305647	1	Nut, Hex Lock 7/16-14	
47	8307113	5	Washer, Plain 7/16in Narrow	
48	8522012	AR	Lube, Anti-Seize	
49	8526007	AR	Thread Locking Compound	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-3. INTERMEDIATE BOOM ASSEMBLY



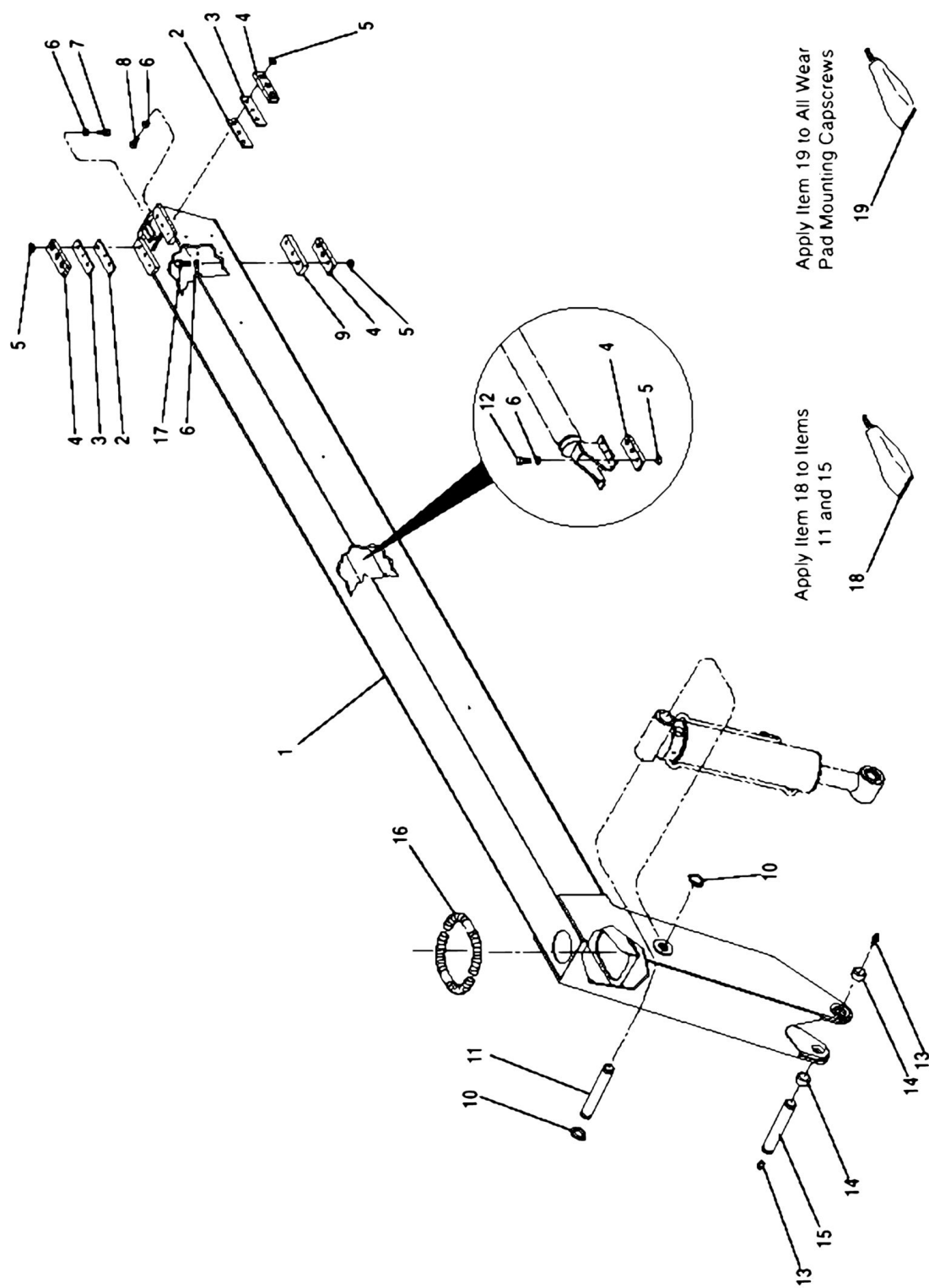
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-3. INTERMEDIATE BOOM ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138194	1	Boom, Intermediate	
2	7111572	14	Pad, Wear	
3	7126182	AR	Shim, Wear Pad .07in thk	
4	7126172	AR	Shim, Wear Pad .04in thk	
5	7135432	40	Insert, Wear Pad	
6	8303620	10	HHCS, 3/8-16 x 1in Gr5	
7	8307005	36	Washer, Lock 3/8in	
8	8303693	4	HHCS, 1/2-13 X 2-1/2in Gr 5	
9	8307007	4	Washer, Lock 1/2in	
10	7121461	2	Clamp, Trunnion, Extend Cylinder	
11	7139020	2	Pad, Wear	
12	7139018	2	Spacer, Wear Pad	
13	8303681	16	HHCS, 3/8-16 x 3/4in Gr5	
14	8303621	6	HHCS, 3/8-16 x 1-1/2in Gr5	
15	8303622	4	HHCS, 3/8-16 X 2in Gr 5	
16	7137822	2	Spacer, Wear Pad	
17	7135442	2	Spacer, Wear Pad	
18	8526007	AR	Thread Locking Compound	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-4. INNER BOOM ASSEMBLY (HIGH PIVOT)



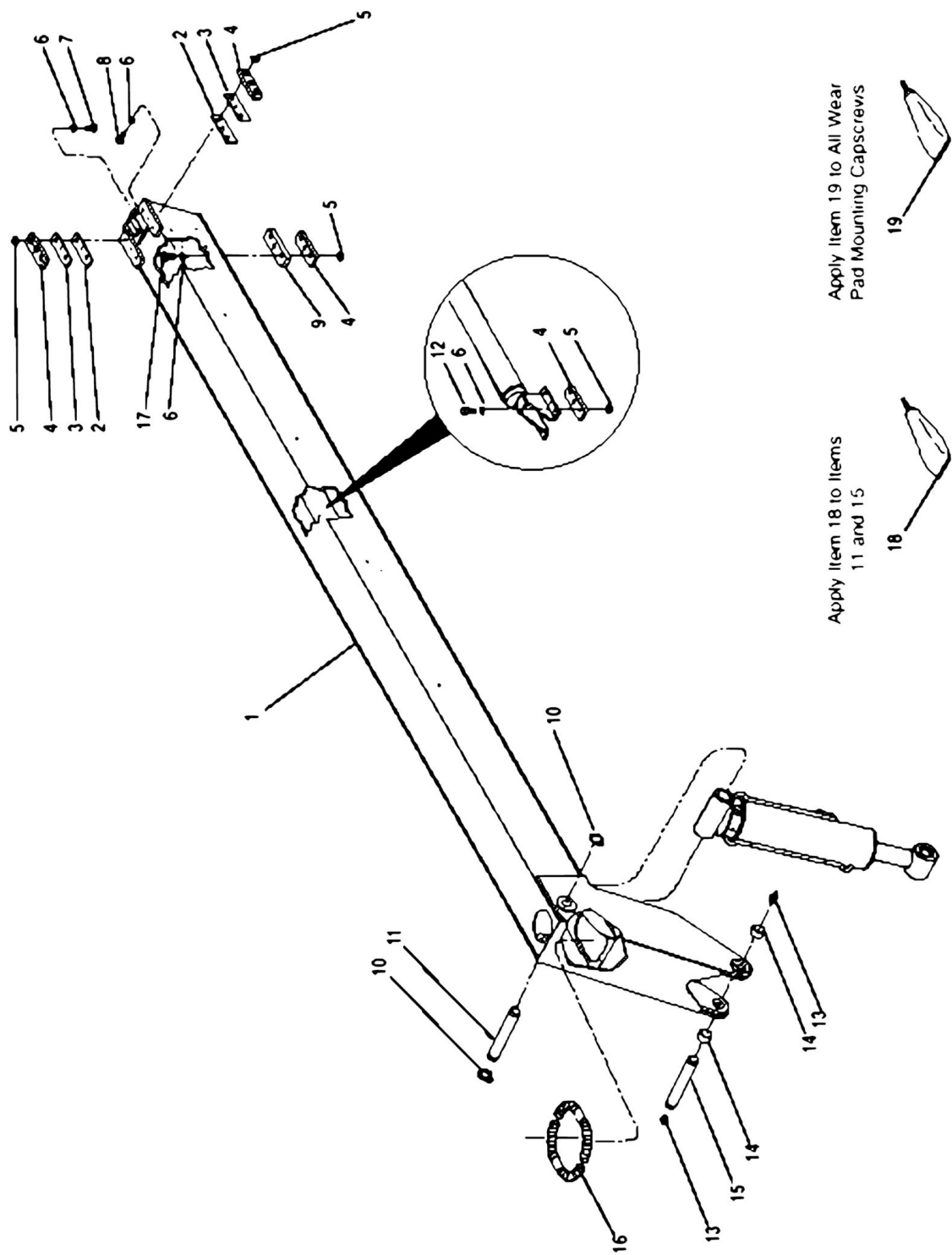
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-4. INNER BOOM ASSEMBLY (HIGH PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7139309	1	Boom, Inner, High Pivot	
2	7126172	AR	Shim, Wear Pad .13in Thk	
3	7126182	AR	Shim, Wear Pad .07in Thk	
4	7135413	10	Wear Pad	
5	7135432	24	Insert, Wear Pad	
6	8307005	24	Washer, Lock 3/8in	
7	8303679	6	HHCS, 3/8-16 X 1-3/4in Gr 5	
8	8303681	8	HHCS, 3/8-16 X 3/4in Gr 5	
9	7135442	2	Spacer, Wear Pad	
10	8642224	2	Ring, Retaining, External 2in	
11	7136322	1	Pin, Attachment Tilt Cylinder Base	
12	8303622	6	HHCS, 3/8-16 x 1in Gr 5	
13	8520001	2	Fitting, Lube 1/8in NPT	
14	7085542	2	Bushing, Quick Attach Pivot	
15	7083922	1	Pin, Carriage Pivot	
16	7124331	AR	Conduit, 0.5 x 60in Lg (Cut to Fit)	
17	8303621	4	HHCS, 3/8-16 x 1-1/2in Gr 5	
18	8522012	AR	Lube, Anti-Seize	
19	8526007	AR	Thread Locking Compound	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-5. INNER BOOM ASSEMBLY (LOW PIVOT)



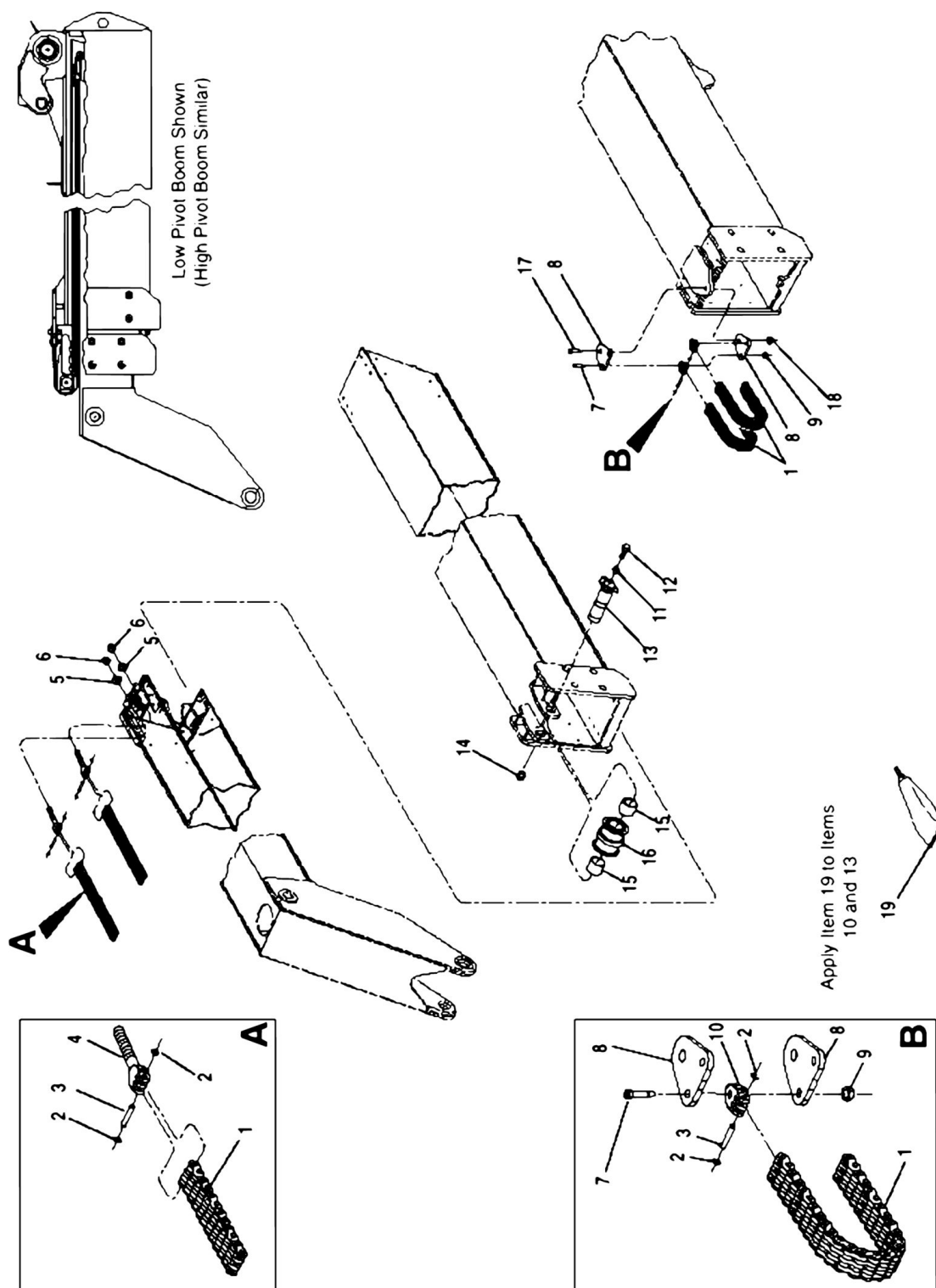
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-5. INNER BOOM ASSEMBLY (LOW PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138623	1	Boom, Inner, Low Pivot	
2	7126172	AR	Shim, Wear Pad .13in Thk	
3	7126182	AR	Shim, Wear Pad .07in Thk	
4	7135413	10	Wear Pad	
5	7135432	24	Insert, Wear Pad	
6	8307005	24	Washer, Lock 3/8in	
7	8303679	6	HHCS, 3/8-16 X 1-3/4in Gr 5	
8	8303681	8	HHCS, 3/8-16 X 3/4in Gr 5	
9	7135442	2	Spacer, Wear Pad	
10	8642224	2	Ring, Retaining, External 2in	
11	7136322	1	Pin, Attachment Tilt Cylinder Base	
12	8303622	6	HHCS, 3/8-16 x 1in Gr 5	
13	8520001	2	Fitting, Lube 1/8in NPT	
14	7085542	2	Bushing, Quick Attach Pivot	
15	7083922	1	Pin, Carriage Pivot	
16	7124331	AR	Conduit, 0.5 x 60in Lg (Cut to Fit)	
17	8303621	4	HHCS, 3/8-16 x 1-1/2in Gr 5	
18	8522012	AR	Lube, Anti-Seize	
19	8526007	AR	Thread Locking Compound	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-6. BOOM EXTEND CHAINS



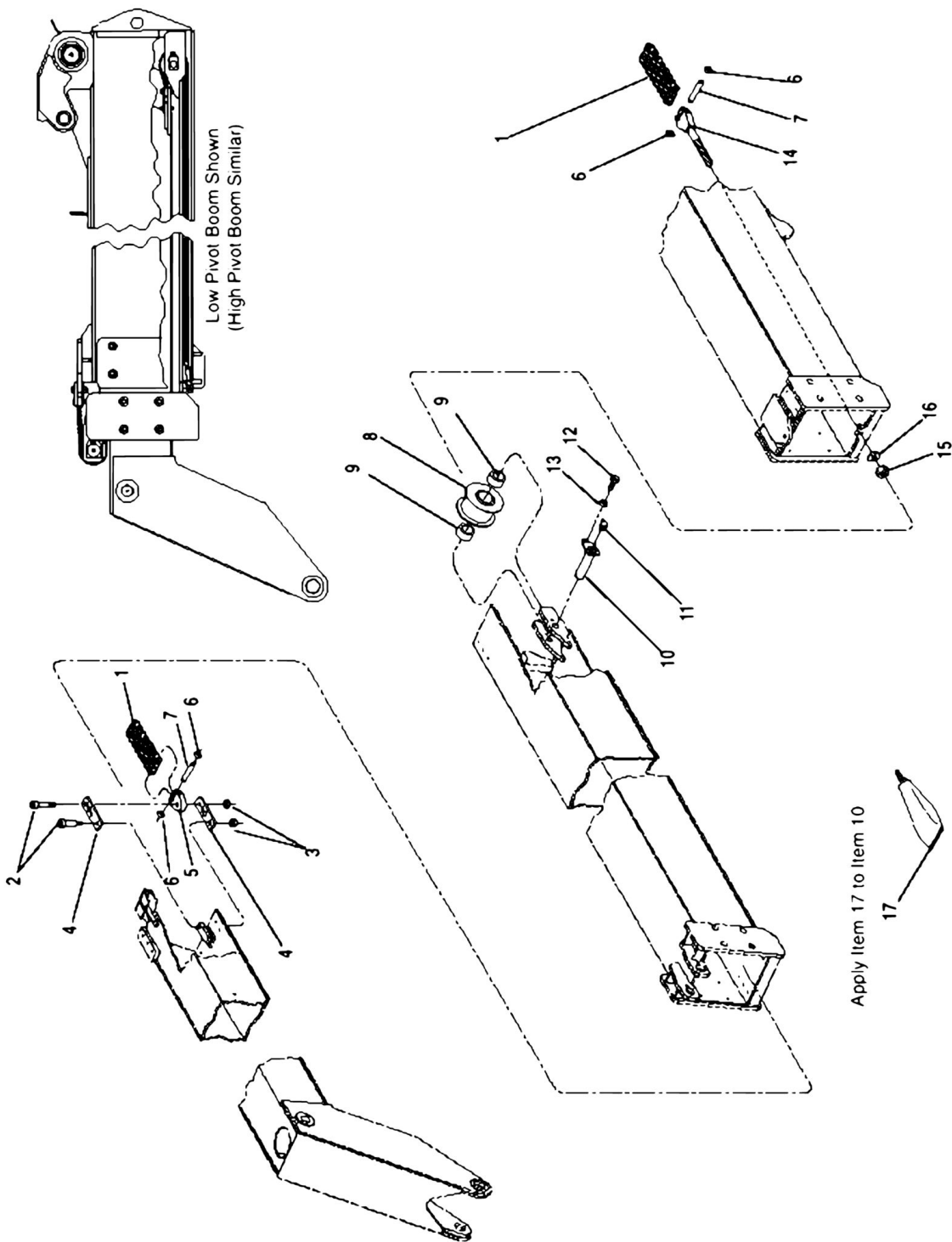
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-6. BOOM EXTEND CHAINS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8127018	2	Chain, Extend, Leaf 3/4in Pitch	
2	8642237	8	Ring, Retaining	
3	8124126	4	Pin, Chain Clevis	
4	7119362	3	Clevis, Chain	
5	8307104	2	Washer, Flat, 0.75, SAE	
6	8305646	2	Nut, Hex Lock 0.75-16 NF	
7	8310019	2	SHRS, 0.50 x 1.50 x 3/8-16	
8	7134851	2	Yoke, Extend Chain	
9	8305645	2	Nut, Hex Lock 0.375-16 NC	
10	7119372	3	Clevis, Chain Anchor	
11	8307007	2	Washer, Lock 1/2in	
12	8303624	2	HHCS, 1/2-13 x 1in	
13	7137082	1	Pin, Extend Chain Sheave	
14	8520001	1	Lube, Fitting 1/8 NPT	
15	7126662	2	Bushing, Chain Sheave	
16	7114112	1	Sheave, Extend Chain	
17	8310201	1	SHRS, 0.75 x 1.50 x 5/8-11	
18	8305643	1	Nut, Hex Lock 0.625-11 NC	
19	8522012	AR	Lube, Anti-Seize	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-7. BOOM RETRACT CHAINS



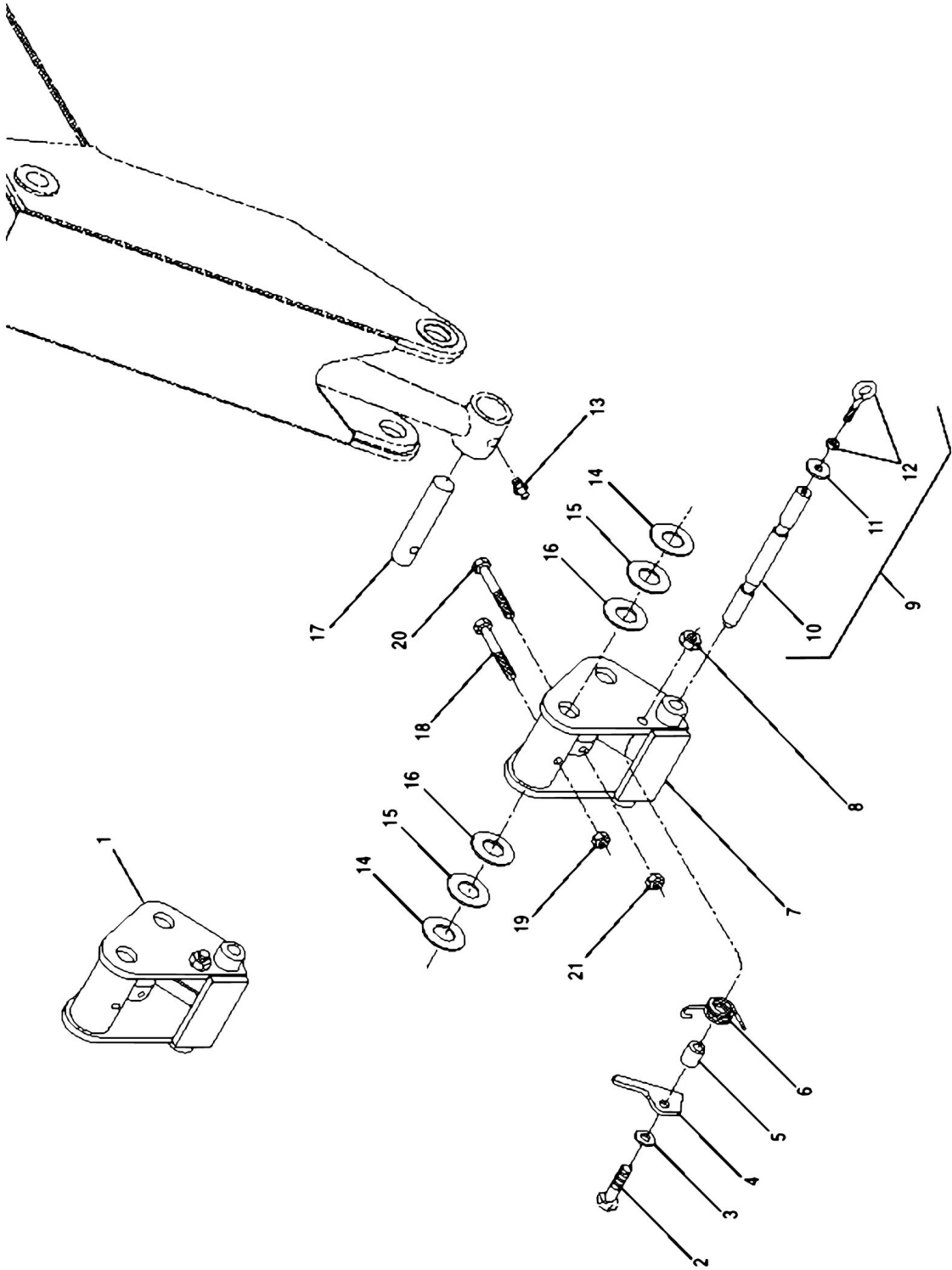
SECTION 4 - BOOM ASSEMBLY

FIGURE 4-7. BOOM RETRACT CHAINS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8127016	1	Chain, Retract, Leaf 3/4 Pitch	
2	8310019	2	Bolt, Shoulder, HSH. 1/2 x 1-1/2 x 3/8-16	
3	8305645	2	Nut, Hex Lock Elastic 3/8-16	
4	7121531	2	Link, Retract Chain Anchor	
5	7119372	1	Clevis, Chain Anchor	
6	8642237	4	Ring, Retaining	
7	8124126	2	Pin, Chain Clevis	
8	7138986	1	Sheave, Retract Chain (Includes Item 9)	
9	7138979	2	Bushing, Retract Chain Sheave	
10	7138977	1	Pin, Retract Chain Sheave	
11	8520003	1	Fitting, Lube 90	
12	8303624	2	HHCS, 1/2-13 x 1in	
13	8307007	2	Washer, Lock 1/2in	
14	7119362	1	Clevis, Chain	
15	8305646	1	Nut, Hex Lock Elastic 3/4-16 NF	
16	8307104	1	Washer, Flat 3/4in Narrow	
17	8522012	AR	Lube, Anti-Seize	

SECTION 4 - BOOM ASSEMBLY

FIGURE 4-8. QUICK ATTACH ASSEMBLY



SECTION 4 - BOOM ASSEMBLY

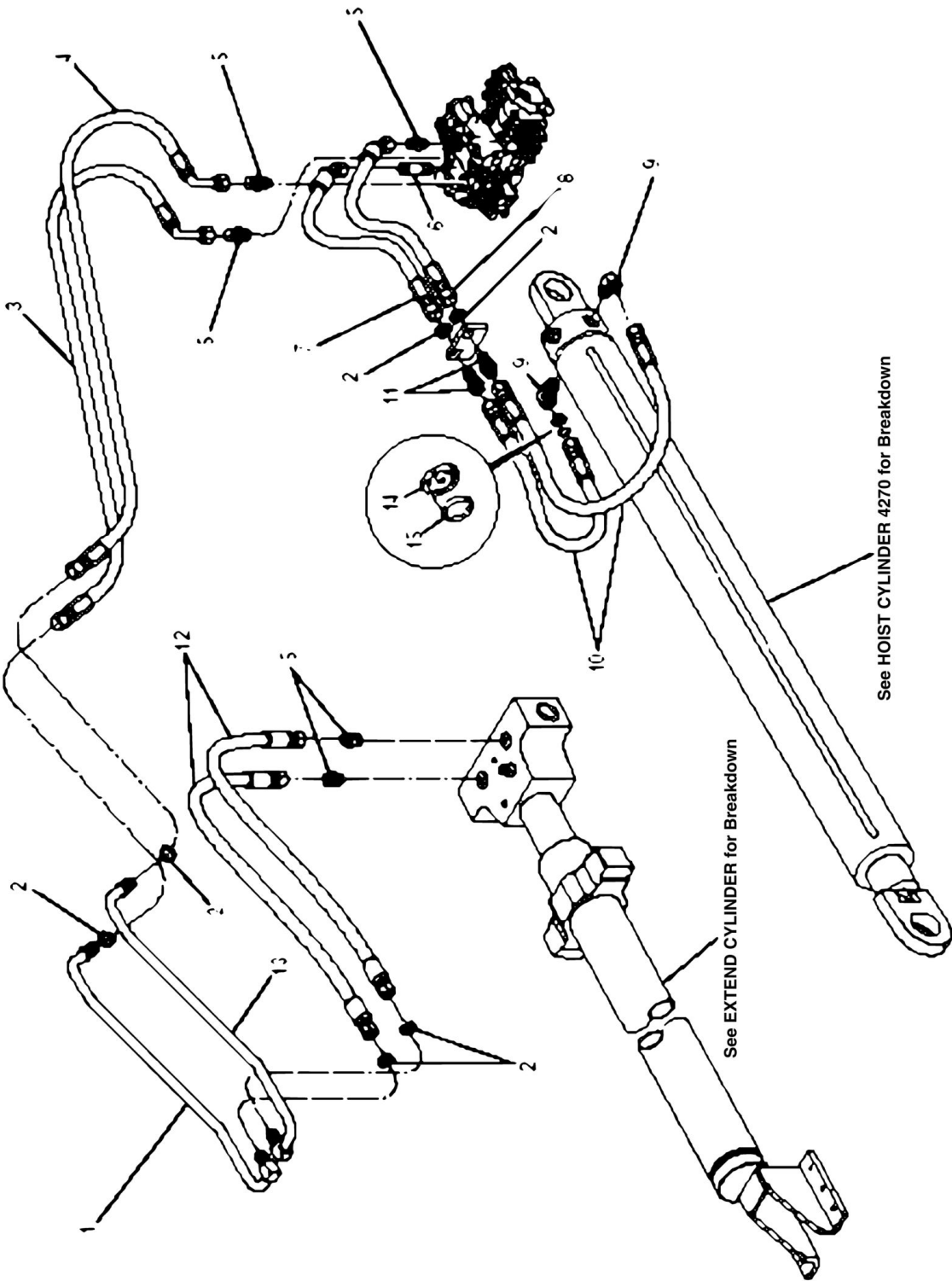
FIGURE 4-8. QUICK ATTACH ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7134863	1	Quick Attach Assembly (Includes Items 2 thru 8)	
2	8303638	1	HHCS, 3/4-10 x 2-3/4in Gr 5	
3	8307104	1	Washer, Flat SAE 3/4in	
4	7121422	1	Latch, Quick Attach	
5	7085571	1	Spacer, Quick Attach	
6	7085552	1	Spring, Torsion	
7	7134873	1	Quick Attach	
8	8305619	1	Nut, Hex Lock Elastic 3/4-10	
9	7118892	1	Pin, Lock (Includes Items 10 thru 12)	
10	7118882	1	Pin	
11	8310276	1	Washer	
12	8310266	1	Bolt, Eye w/Nut	
13	8520013	1	Fitting, Lube, Self Tapping 1/8 NPT	
14	8307918	AR	Washer, Shim 2.00in x .134in x 3.50in	
15	8310093	AR	Washer, Shim 2.00in x .075in x 3.50in	
16	8307904	AR	Washer, Shim 2.00in x .048in x 3.50in	
17	7138222	1	Pin, Rod End, Attachment Tilt Cylinder	
18	8303666	1	HHCS, 5/8-11 x 5in Gr 5	
19	8305643	1	Nut, Hex Lock Elastic 5/8-11	
20	8305644	1	HHCS, 1/2-13 x 5in Gr 5	
21	8303772	1	Nut, Hex Lock Elastic 1/2-13	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-1. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (LOW PIVOT)



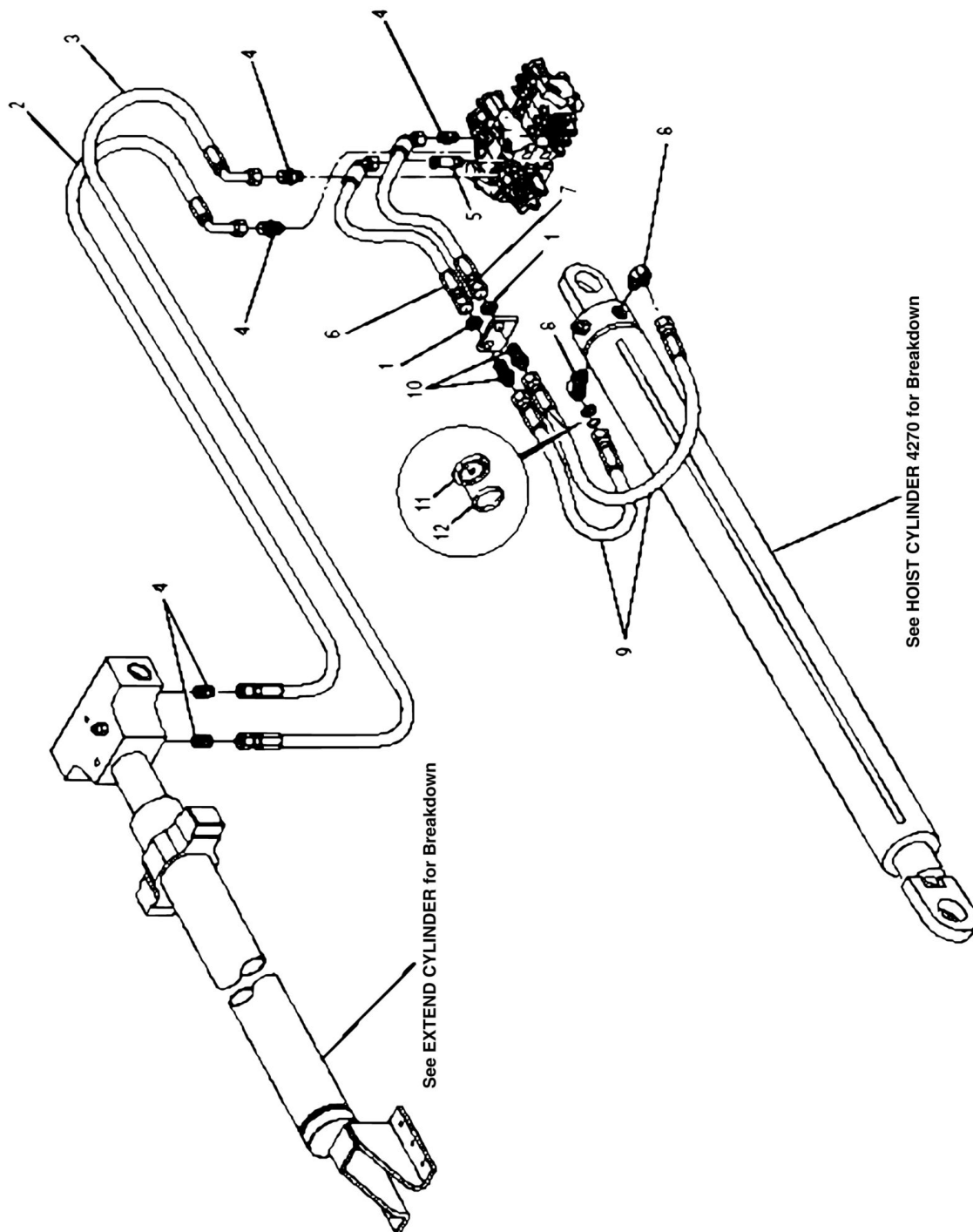
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-1. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (LOW PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7137603	1	Tube Assembly (Retract)	
2	8770085	6	Nut, Bulkhead, SAE 12 - OFS	
2	8303743	4	Hose, 0.75 x 43.00in (Retract)	
4	2716642	1	Hose, 0.75 x 47.50in (Extend)	
5	8770070	5	Connector, SAE 12 - str thd ORB x OFS	
6	8770163	1	Connector, Long, SAE 12 - str thd ORB x OFS	
7	2716533	1	Hose, 0.75 x 25.50in (Lower)	
8	2716532	1	Hose, 0.75 x 29.50in (Raise)	
9	8770079	2	Elbow, 90, SAE 12 - str thd ORB x OFS	
10	2715052	2	Hose, 0.75 x 45.00in	
11	8770086	2	Connector, Bulkhead, SAE 12 - OFS	
12	2716492	2	Hose, 0.75 x 46.50in	
13	7137593	1	Tube Assembly (Extend)	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-2. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (HIGH PIVOT)



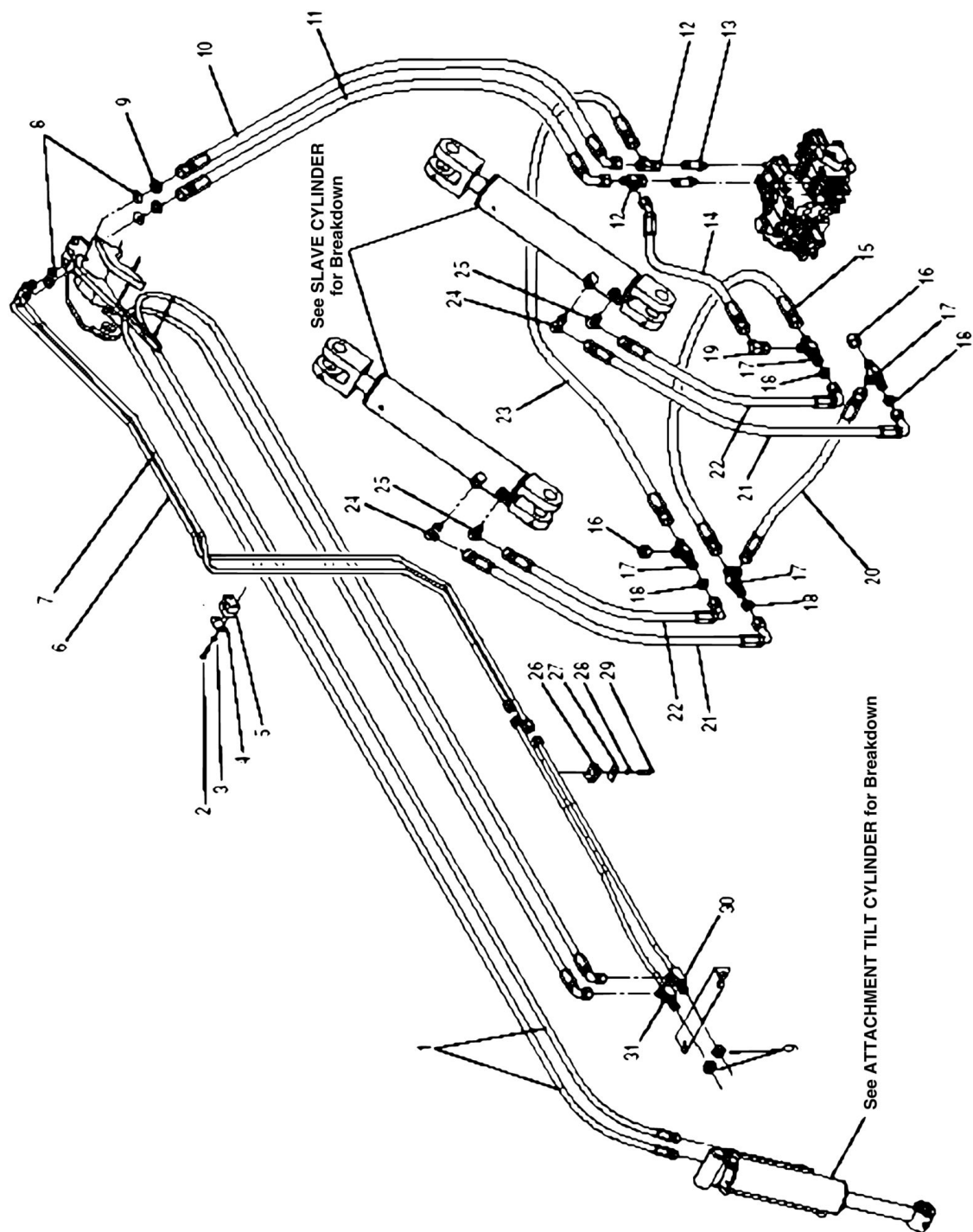
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-2. BOOM LIFT/LOWER AND EXTEND/RETRACT CIRCUIT (HIGH PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770085	6	Nut, Bulkhead, SAE 12 - OFS	
2	2716790	1	Hose, 0.75 x 43.00in (Extend)	
3	2716642	1	Hose, 0.75 x 47.50in (Retract)	
4	8770070	5	Connector, SAE 12 - str thd ORB x OFS	
5	8770163	1	Connector, Long, SAE 12 - str thd ORB x OFS	
6	2716533	1	Hose, 0.75 x 25.50in (Lower)	
7	2716532	1	Hose, 0.75 x 29.50in (Raise)	
8	8770079	2	Elbow, 90, SAE 12 - str thd ORB x OFS	
9	2715052	2	Hose, 0.75 x 45.00in	
10	8770086	2	Connector, Bulkhead, SAE 12 - OFS	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-3. ATTACHMENT TILT AND SLAVE CIRCUIT (LOW PIVOT)



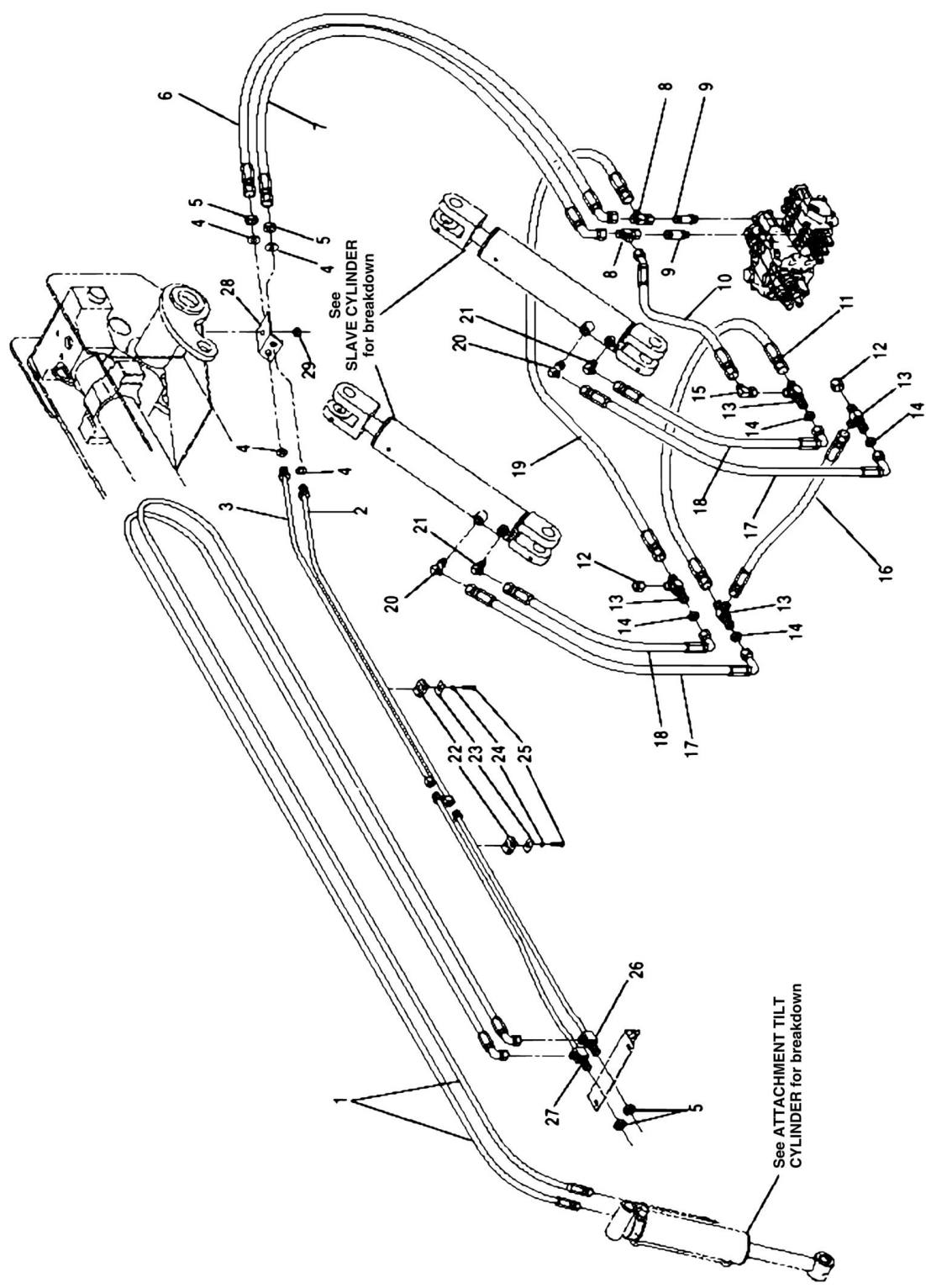
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-3. ATTACHMENT TILT AND SLAVE CIRCUIT (LOW PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716620	2	Hose, 0.50 x 407in	
2	8303743	4	HHCS, 1/4in-20 x 1-1/2in	
3	8307002	4	Washer, Lock, 1/4in	
4	8769153	2	Plate, Cover	
5	8769154	2	Clamp Set, 5/8in	
6	7136133	1	Tube Assembly	
7	7136123	1	Tube Assembly	
8	5724302	4	Shim	
9	8770075	4	Nut, Bulkhead, SAE 10 - OFS	
10	2716644	1	Hose, 0.50 x 49.00in	
11	2716645	1	Hose, 0.50 x 52.13in	
12	8770125	2	Tee, Swivel Run, SAE 8 - OFS	
13	8770117	2	Connector, Long, SAE 8 - str thd ORB x OFS	
14	2716635	1	Hose, 0.50 x 24.38in	
15	2716629	1	Hose, 0.50 x 31.00in	
16	8770118	4	Cap, SAE 8 - OFS	
17	8770167	4	Tee, Run, Bulkhead, SAE 8 - OFS	
18	8770129	4	Nut, Bulkhead, SAE 8 - OFS	
19	8770115	1	Elbow, 90, Swivel, SAE 8 - OFS	
20	2716628	1	Hose, 0.50 x 15.25in	
21	2716535	2	Hose, 0.50 x 24.88in	
22	2716534	2	Hose, 0.50 x 17.88in	
23	2716634	1	Hose, 0.50 x 55.00in	
24	8770168	2	Elbow, Long, 90, SAE 8 - str thd ORB x OFS	
25	8770114	2	Elbow, 90, SAE 8 - str thd ORB x OFS	
26	8769122	2	Clamp Set, 5/8in	
27	8769128	2	Plate, Cover	
28	8307004	2	Washer, Lock, 5/16in	
29	8303715	2	HHCS, 5/16in-18 x 1-1/2in	
30	7136073	1	Tube Assembly	
31	7136093	1	Tube Assembly	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-4. ATTACHMENT TILT AND SLAVE CIRCUIT (HIGH PIVOT)



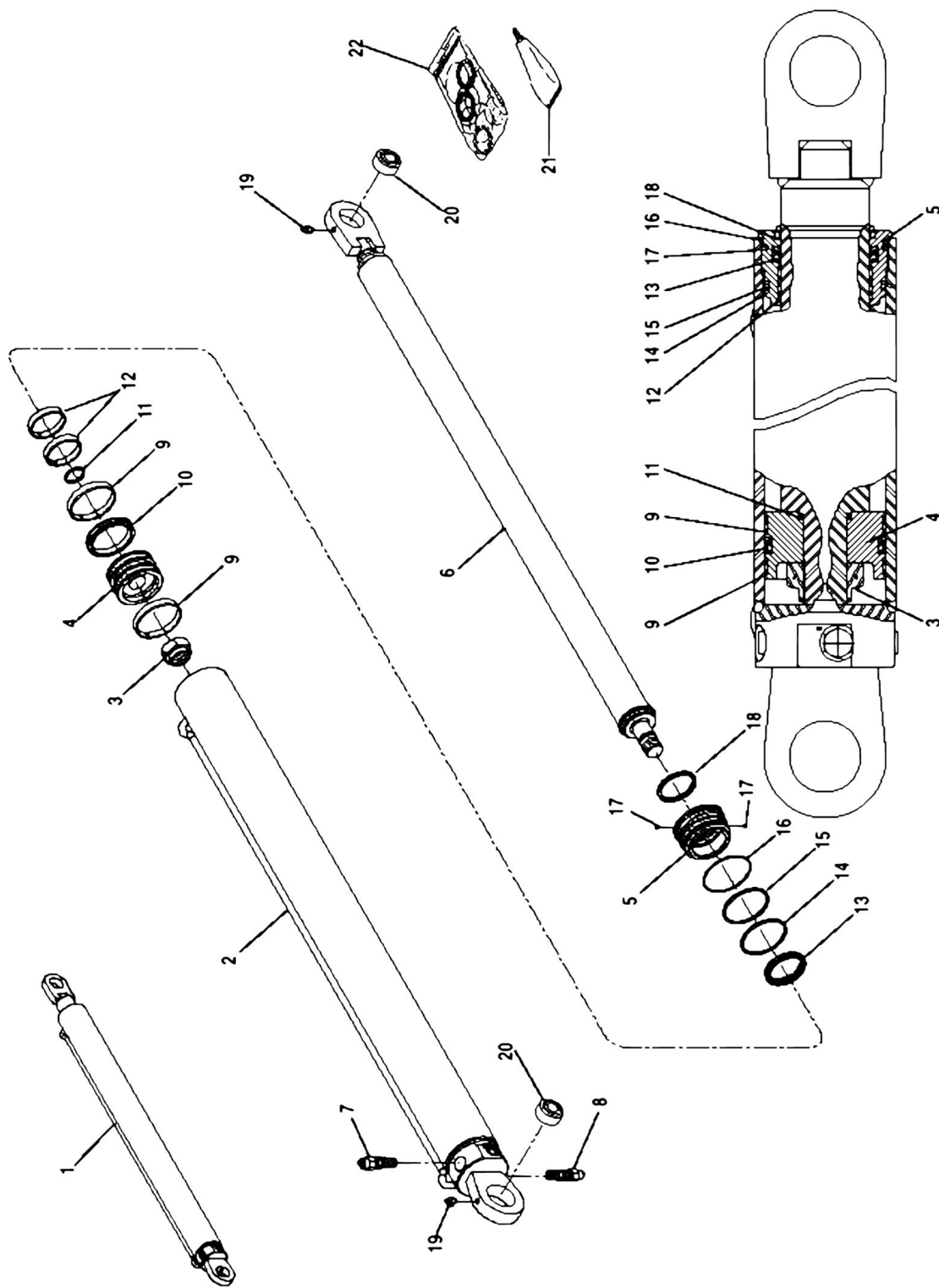
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-4. ATTACHMENT TILT AND SLAVE CIRCUIT (HIGH PIVOT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716620	2	Hose, 0.50 x 407in	
2	7139280	1	Tube Assembly	
3	7139278	1	Tube Assembly	
4	5724302	4	Shim	
5	8770075	2	Nut, Bulkhead, SAE 10 - OFS	
6	2716644	1	Hose, 0.50 x 49.00in	
7	2716645	1	Hose, 0.50 x 52.13in	
8	8770125	2	Tee, Swivel Run, SAE 8 - OFS	
9	8770117	2	Connector, Long, SAE 8 - str thd ORB x OFS	
10	2716635	1	Hose, 0.50 x 24.38in	
11	2716629	1	Hose, 0.50 x 31.00in	
12	8770118	4	Cap, SAE 8 - OFS	
13	8770167	4	Tee, Run, Bulkhead, SAE 8 - OFS	
14	8770129	4	Nut, Bulkhead, SAE 8 - OFS	
15	8770115	1	Elbow, 90, Swivel, SAE 8 - OFS	
16	2716628	1	Hose, 0.50 x 15.25in	
17	2716535	2	Hose, 0.50 x 24.88in	
18	2716534	2	Hose, 0.50 x 17.88in	
19	2716634	1	Hose, 0.50 x 55.00in	
20	8770168	2	Elbow, Long, 90, SAE 8 - str thd ORB x OFS	
21	8770114	2	Elbow, 90, SAE 8 - str thd ORB x OFS	
22	8769122	2	Clamp Set, 5/8in	
23	8769128	2	Plate, Cover	
24	8307004	2	Washer, Lock, 5/16in	
25	8303715	2	HHCS, 5/16in-18 x 1-1/2in	
26	7139230	1	Tube Assembly	
27	7139236	1	Tube Assembly	
28	7139443	1	Bracket, Bulkhead	
29	8305645	1	Nut, Hex Lock Elastic 3/8-16	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-5. HOIST CYLINDER 4270



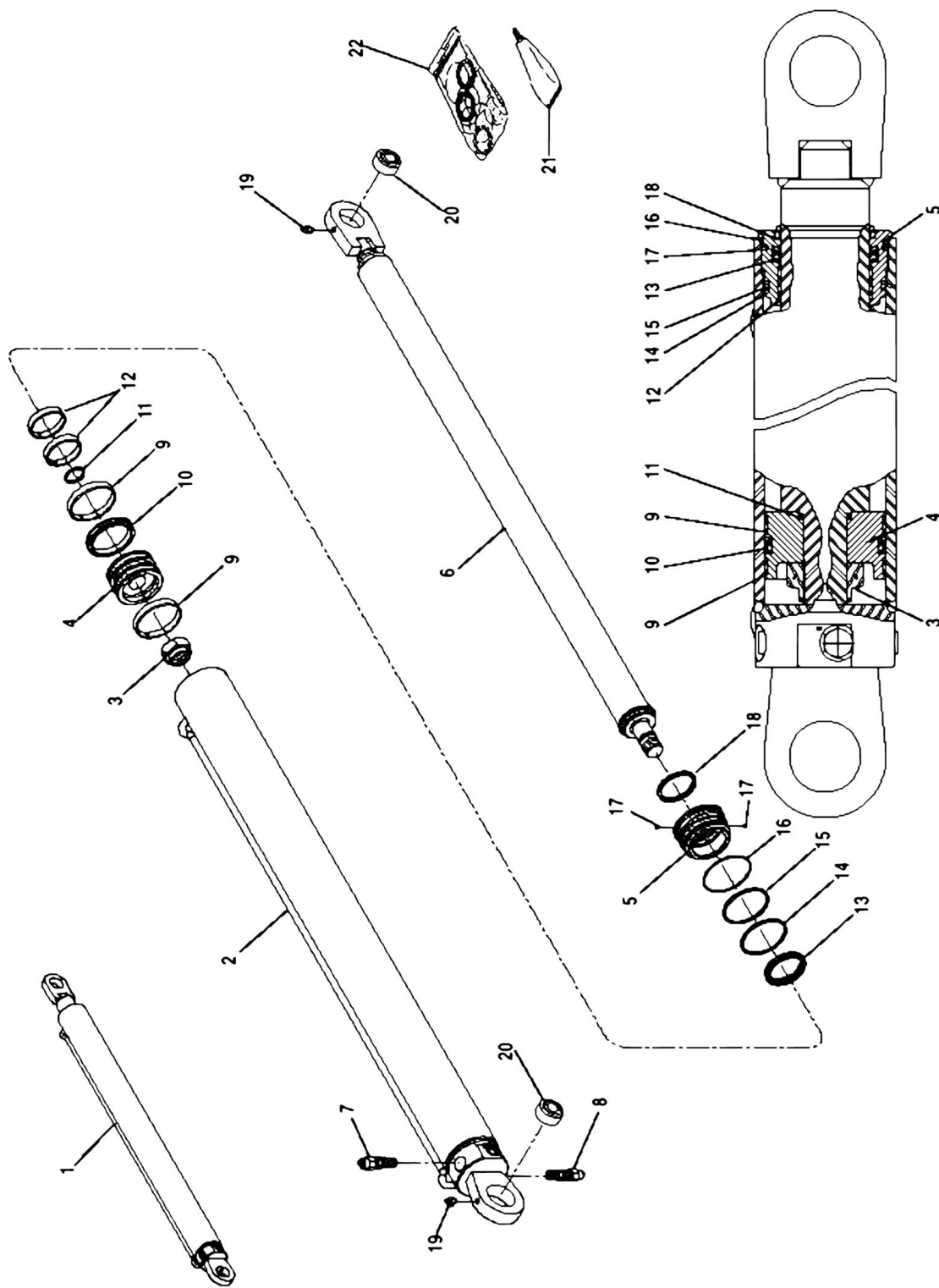
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-5. HOIST CYLINDER 4270

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716737	1	Cylinder, Hoist (Includes Items 2 thru 20)	
2	N.S.S.	1	Tube, Weldment	
3	8035308	1	Nut, Hex Lock 2.00-12 UN	
4	8035309	1	Piston	
5	8035759	1	Gland, Head	
6	8036237	1	Rod, Weldment	
7	8902271	1	Valve, Counter Balance, M Style	
8	8036229	1	PO Check Valve	
9	See Kits	2	Wearband, Precision	
10	See Kits	1	T-Seal, Capped	
11	See Kits	1	O-Ring	
12	See Kits	2	Wearband, Precision	
13	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
14	See Kits	1	O-Ring	
15	See Kits	1	Ring, Back-Up	
16	See Kits	1	O-Ring	
17	See Kits	2	Locking Insert	
18	See Kits	2	Wiper, Hd Rod - Sealed O.D.	
19	8520013	2	Fitting, Lube	
20	8050007	2	Bearing, Self Align	
21	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	N.S.S. = Not Sold Separately	
		Ref	KITS	
22	8035760		Seal Kit (Includes Items 9 thru 18)	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-6. HOIST CYLINDER 4290



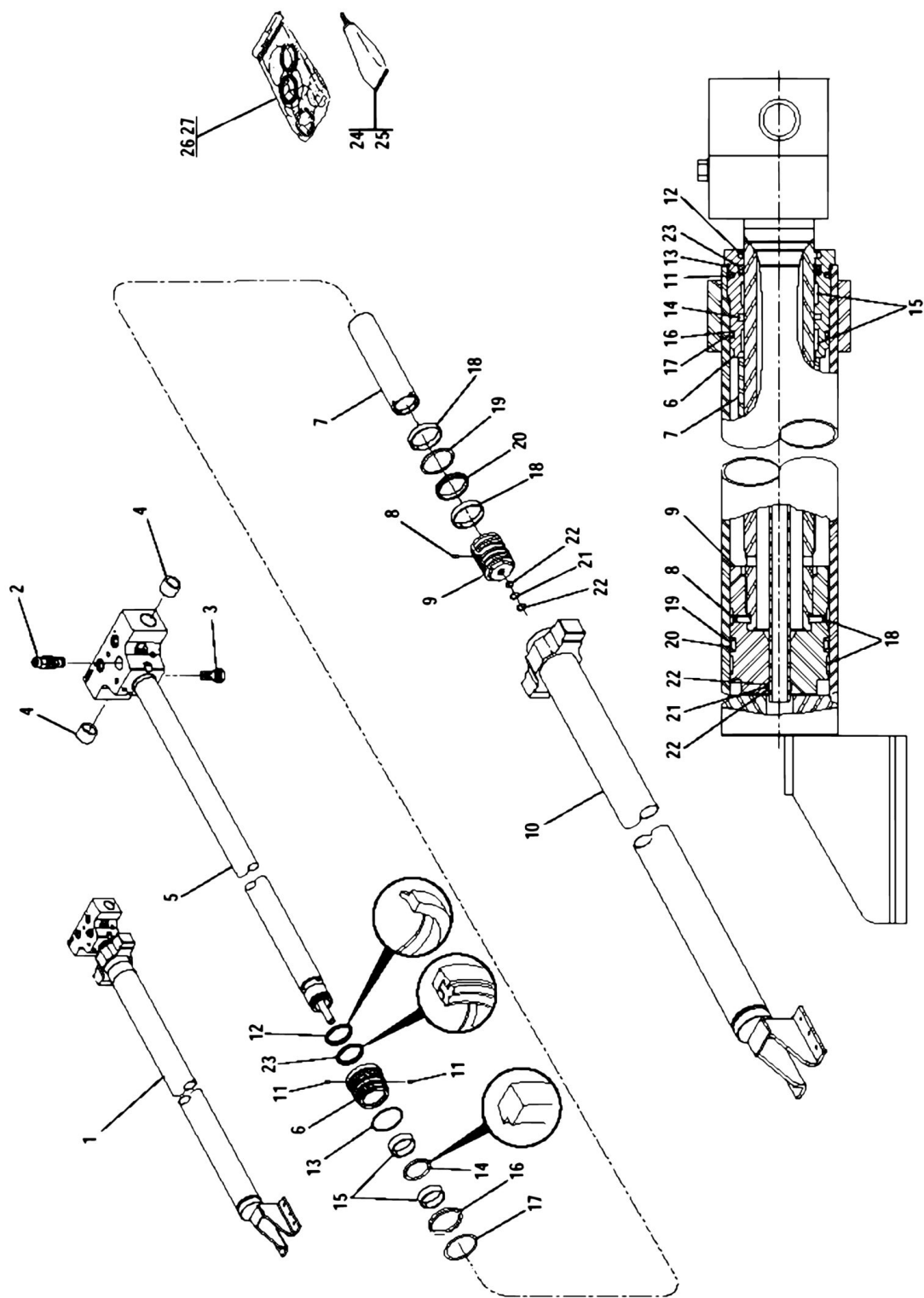
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-6. HOIST CYLINDER 4290

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716735	1	Cylinder, Hoist (Includes Items 2 thru 20)	
2	N.S.S.	1	Tube, Weldment	
3	8035308	1	Nut, Hex Lock 2.00-12 UN	
4	8036241	1	Piston	
5	8036240	1	Gland, Head	
6	8036239	1	Rod, Weldment	
7	8902271	2	Valve, Counter Balance, M Style	
8	8036229	1	PO Check Valve	
9	See Kits	2	Wearband, Precision	
10	See Kits	1	T-Seal, Capped	
11	See Kits	1	O-Ring	
12	See Kits	2	Wearband, Precision	
13	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
14	See Kits	1	O-Ring	
15	See Kits	1	Ring, Back-Up	
16	See Kits	1	O-Ring	
17	See Kits	2	Locking Insert	
18	See Kits	2	Wiper, Hd Rod - Sealed O.D.	
19	8520013	2	Fitting, Lube	
20	8050072	2	Bearing, Self Align	
21	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	N.S.S. = Not Sold Separately	
		Ref	KITS	
22	8036074		Seal Kit (Includes Items 9 thru 18)	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-7. EXTEND CYLINDER



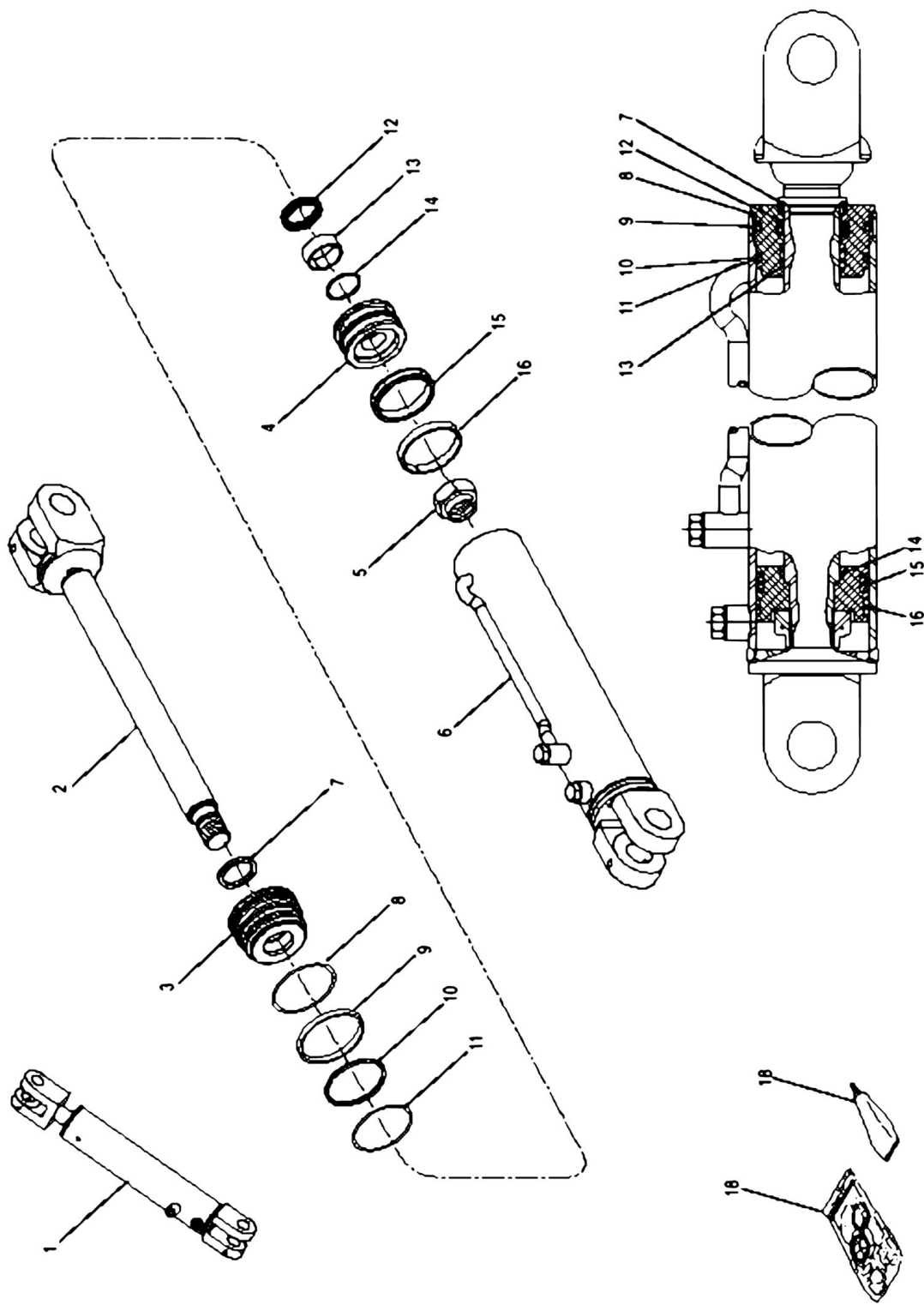
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-7. EXTEND CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716736	1	Cylinder, Extend/Retract (Includes Items 2 thru 23)	
2	8036590	1	Valve, CB 4000 psi (275,8 bar) (See Kits)	
3	8036229	1	Valve, PO Check (See Kits)	
4	8036230	2	Bushing, DU	
5	8036231	1	Rod, Weldment	
6	8035764	1	Gland, Head	
7	70022606	1	Spacer, Rod	
8	8035769	1	Screw, Set 5/16-18 UNC x .75in Long	
9	8035763	1	Piston	
10	N.S.S.	1	Tube, Weldment	
11	See Kits	2	Locking Insert	
12	See Kits	1	Wiper, Hd Rod - Sealed O.D.	
13	See Kits	1	O-Ring	
14	See Kits	1	Z - Seal, Deep - w/Rod Back-Up	
15	See Kits	2	Wearband, Precision	
16	See Kits	1	Ring, Back-Up	
17	See Kits	1	O-Ring	
18	See Kits	2	Wearband, Precision	
19	See Kits	1	Square Ring	
20	See Kits	1	T-Seal, Capped	
21	See Kits	1	O-Ring	
22	See Kits	2	Ring, Back-Up - Dynamic	
23	Kit	1	U-Cup, BT	
24	8526011	AR	Threadlocker, Loctite #271 (250cc)	
25	8526036	AR	Threadlocker, Loctite #242 (.02 fl oz)	
		Ref	KITS	
26	8036328	1	Seal Kit, Complete Cylinder (Includes Items 11 thru 23)	
27	8205656	1	Seal Kit (For Items 2 & 3)	
		Ref	N.S.S. = Not Sold Separately	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-8. SLAVE CYLINDER



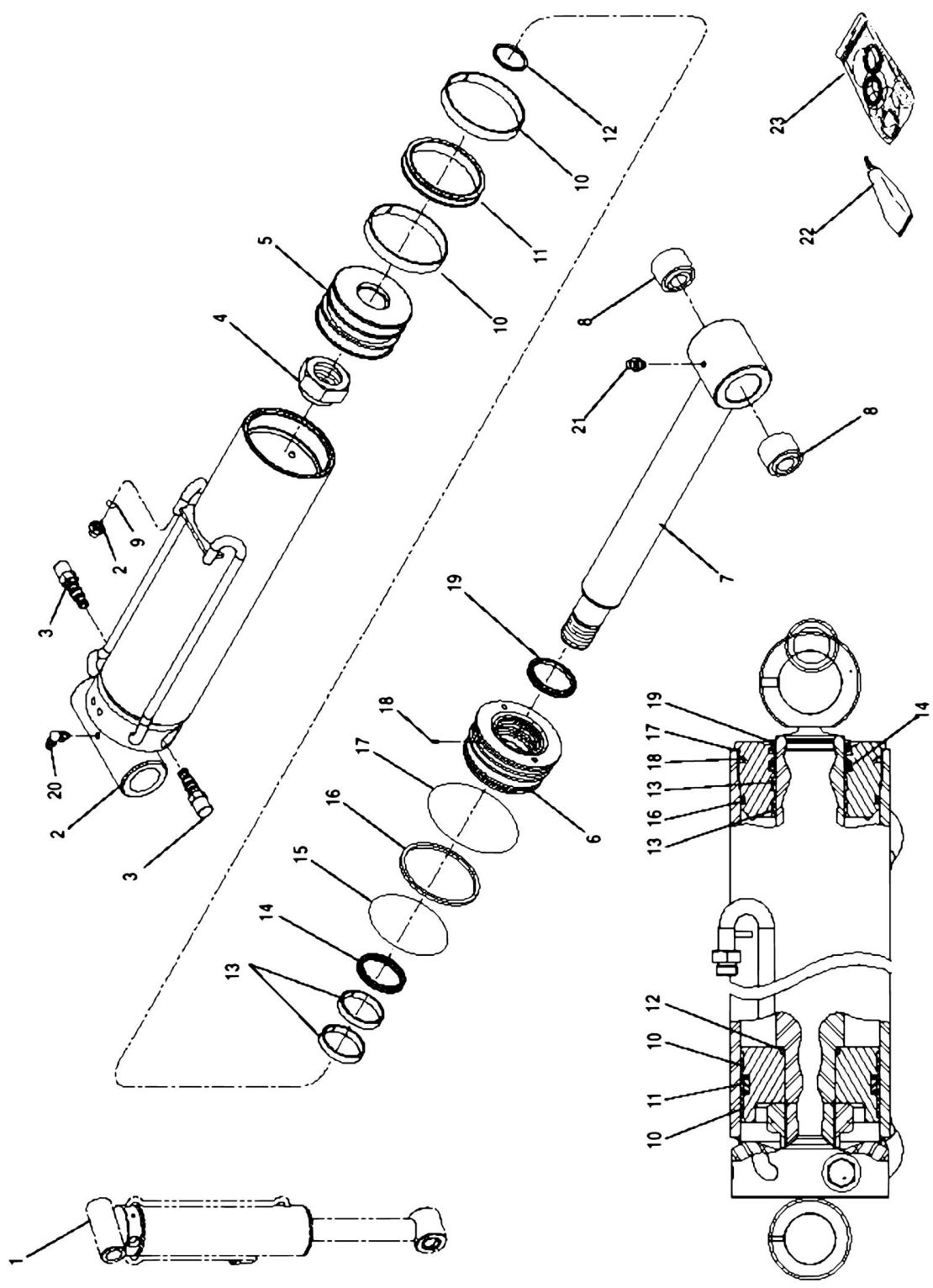
SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-8. SLAVE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716373	1	Cylinder, Slave (Includes Items 2 thru 16)	
2	8035548	1	Rod, Weldment	
3	8035549	1	Gland, Head	
4	8035550	1	Piston	
5	8035547	1	Nut, Hex Lock 1.375-12 UNF	
6	N.S.S.	1	Tube	
7	See Kits	1	Wiper, Hd Rod - Sealed O.D.	
8	See Kits	1	O-Ring	
9	See Kits	1	Locking Insert	
10	See Kits	1	Ring, Back-Up	
11	See Kits	1	O-Ring	
12	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
13	See Kits	1	Wearband, Precision	
14	See Kits	1	O-Ring	
15	See Kits	1	T-Seal, Capped	
16	See Kits	1	Wearband, Precision	
17	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	KITS	
18	8035546	1	Seal Kit, Slave Cylinder (Includes Items 7 thru 16)	
		Ref	N.S.S. = Not Sold Separately	

SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

FIGURE 5-9. ATTACHMENT TILT CYLINDER



SECTION 5 - BOOM HYDRAULIC CIRCUITS AND CYLINDERS

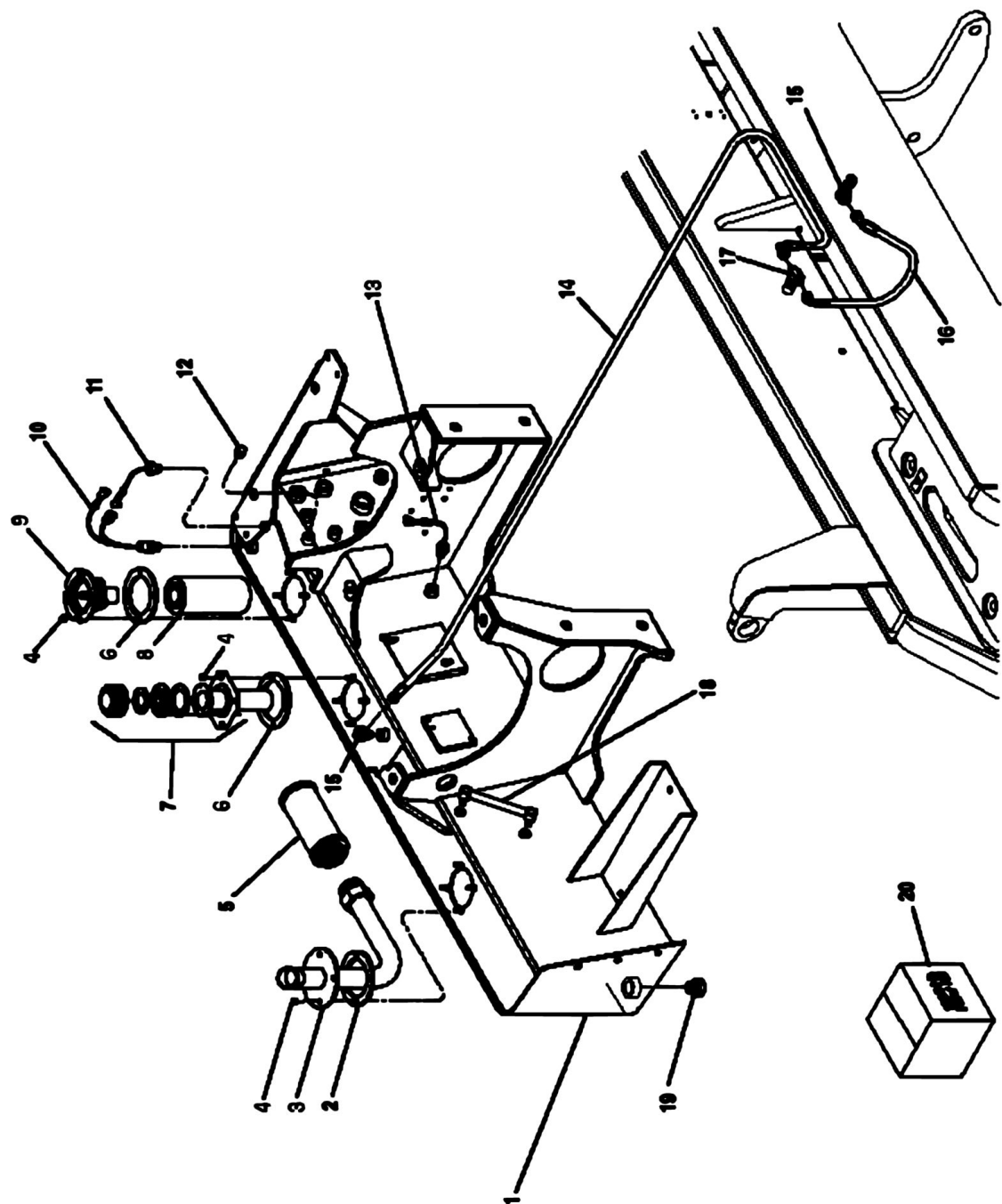
FIGURE 5-9. ATTACHMENT TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7138173	1	Cylinder, Attachment Tilt (Includes Items 2 thru 19)	
2	N.S.S.	1	Tube Weldment (Order Item 1)	
3	8035321	2	Valve, CB - CCC Preset at 4000 psi (275,8 bar)	
4	8035308	1	Nut, Hex Lock 2.00-12 UN	
5	8035309	1	Piston	
6	8035553	1	Gland, Head	
7	8035552	1	Rod, Weldment	
8	7089722	AR	Bushing (Solid Diameter)	
8	70031092	AR	Bushing (Spring Tooth Design)	
9	See Kits	2	O-Ring	
10	See Kits	2	Wearband, Precision	
11	See Kits	1	T-Seal, Capped	
12	See Kits	1	O-Ring	
13	See Kits	2	Wearband, Precision	
14	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
15	See Kits	1	Ring, Back-Up	
16	See Kits	1	O-Ring	
17	See Kits	1	O-Ring	
18	See Kits	2	Locking Insert	
19	See Kits	1	Wiper, Hd Rod - Sealed O.D.	
20	8520021	1	Fitting, Lube 90	
21	8520013	1	Fitting, Lube, Straight	
22	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	KITS	
23	8035551		Seal Kit (Includes Items 9 thru 19)	
		Ref	N.S.S. = Not Sold Separately	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-1. HYDRAULIC RESERVOIR ASSEMBLY



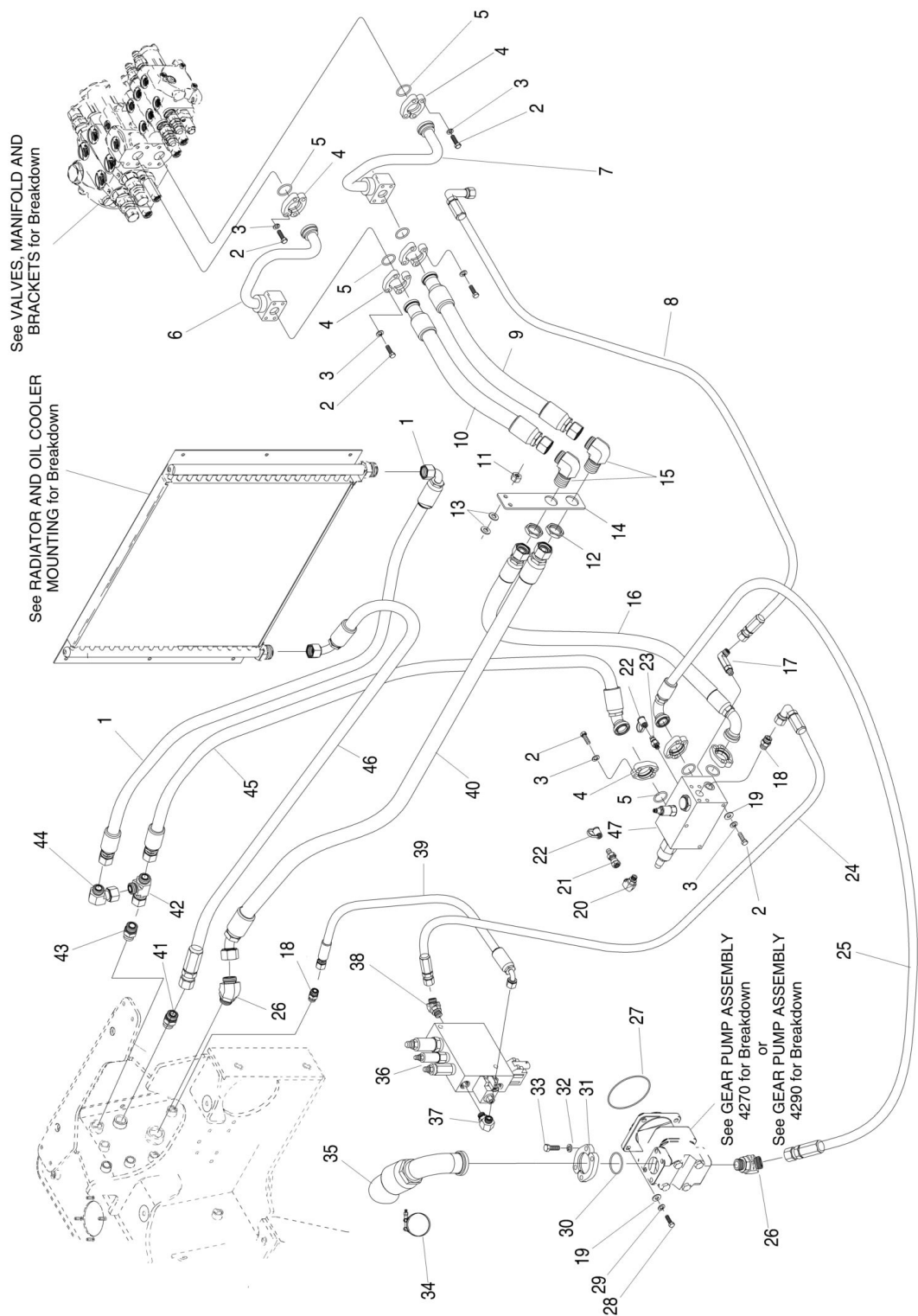
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-1. HYDRAULIC RESERVOIR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7137164	1	Hydraulic Reservoir/Engine Mount	
2	7138209	1	Gasket	
3	7138210	1	Tube Assembly	
4	8305626	12	Nut, Hex Lock 0.312-18 NC	
5	8324029	1	Strainer	
6	7138209	2	Gasket	
7	7136422	1	Fill Neck Assembly	
8	8320265	1	Element, Filter (See Kits)	
9	7094562	1	Head, Filter	
10	8223526	1	Switch, Oil Pressure 20 psi (1,4 kPa)	
11	8223227	1	Switch, Temperature 100F (38C)	
12	8760419	1	Plug, SAE 8, 3/4-16 UNF-2A	
13	8223226	1	Switch, Temperature 95F (35C)	
14	2716647	1	Hose, 0.50 x 64.88in	
15	8770114	1	Elbow, 90	
16	2716646	1	Hose, 0.50 x 23.50in	
17	8770126	1	Tee, Branch	
18	8464013	1	Sight Gauge	
19	8770001	1	Plug, 1.875-12 THD	
		Ref	KITS	
20	7139238	1	1000 Hour Filter Kit (Includes 6 Filters: Engine Oil Filter, Fuel Filter, Both Air Filters, Transmission Oil Filter and Hydraulic Oil Filter)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-2. UNLOADER VALVE HYDRAULIC CIRCUIT



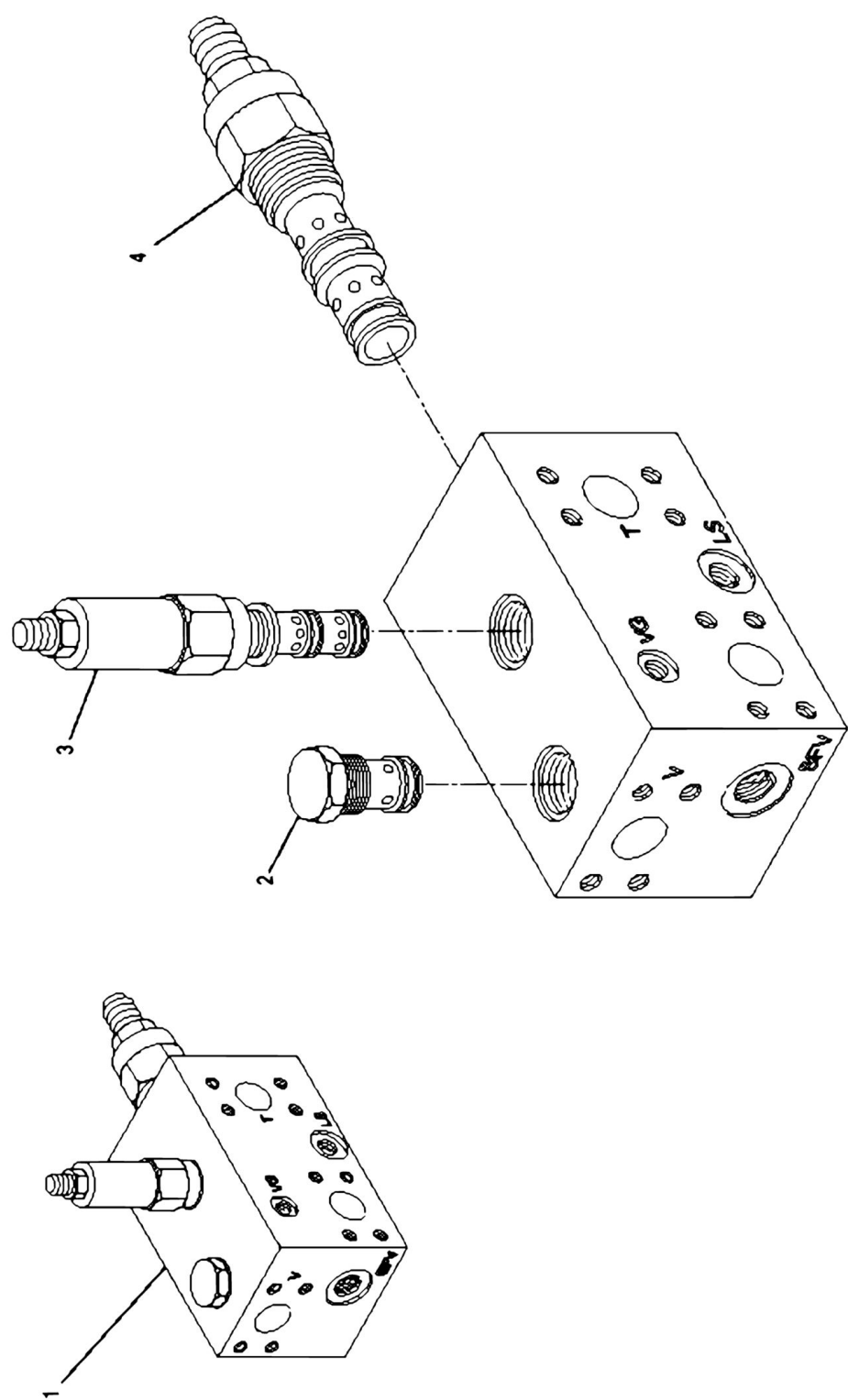
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-2. UNLOADER VALVE HYDRAULIC CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716524	1	Hose, 0.75 x 20.00in	
2	8303675	23	HHCS, 3/8-16 NC x 1.25in	
3	8307005	23	Washer, Lock 3/8in	
4	8530030	10	Flange, Half #16	
5	8640123	5	O-Ring, 1.296 I.D.	
6	7138784	1	Tube	
7	7138785	1	Tube	
8	2716641	1	Hose, 0.38 x 99.50in	
9	2716530	1	Hose, 1.00 x 51.75in	
10	2716531	1	Hose, 1.00 x 49.38in	
11	8305603	2	Nut, Hex Lock, 0.375-16 NC	
12	8770096	2	Nut, Bulkhead, SAE 16 - OFS	
13	8307112	4	Washer, Plain, 0.50in SAE	
14	7138284	1	Bracket, High Pressure Lines	
15	8770095	2	Elbow, 90, Bulkhead, SAE 16 - OFS	
16	2716631	1	Hose, 0.75 x 18.25in	
17	8770068	1	Elbow, 90, SAE 6 - str thd ORB x OFS	
18	8770116	2	Connector, SAE 8 - str thd ORB x OFS	
19	8307220	7	Washer, Plain, M12	
20	8770102	1	Elbow, 90, SAE 6-4 - str thd ORB x OFS	
21	8430081	1	Nipple, Diagnostic	
22	8430032	2	Plug, Dust	
23	8430033	1	Nipple, Diagnostic - 1/8 Body	
24	2716566	1	Hose, 0.50 x 33.00in	
25	2716633	1	Hose, 0.75 x 91.00in	
26	8770166	2	Elbow, 45, SAE 16 - str thd ORB x OFS	
27	8630016	1	O-Ring, 130 x 3mm	
28	8310164	4	HHCS, M12-1,75 x 40mm	
29	8307025	4	Washer, Lock M12	
30	8640208	1	O-Ring, 2.234 I.D.	
31	8546407	2	Flange, Half #32	
32	8307007	4	Washer, Lock 0.50in	
33	8303626	4	HHCS, 0.50-13 NC x 1.50in	
34	8405209	1	Clamp, T-bolt	
35	2716520	1	Hose, 2.00 x 21.00in	
36	8902196	1	Manifold, Secondary Function (See SECTION ASSEMBLY – FRAME TILT for Breakdown)	
37	8770114	1	Elbow, 90, SAE 8 - str thd ORB x OFS	
38	8770127	1	Elbow, 45, SAE 8 - str thd ORB x OFS	
39	2716567	1	Hose, 0.50 x 59.38in	
40	2716529	1	Hose, 1.00 x 23.81in	
41	8770070	1	Connector, SAE 12 - str thd ORB x OFS	
42	8770083	1	Tee, Swivel Run, SAE 12 - OFS	
43	8770132	1	Connector, Male Flat Face Tube, w/Inlet Check	
44	8770080	1	Elbow, 90, Swivel, SAE 12 - OFS	
45	2716523	1	Hose, 0.75 x 22.75in	
46	2716525	1	Hose, 0.75 x 30.50in	
47	8902200	1	Valve, Unloader (See UNLOADER VALVE ASSEMBLY for Breakdown)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-3. UNLOADER VALVE ASSEMBLY



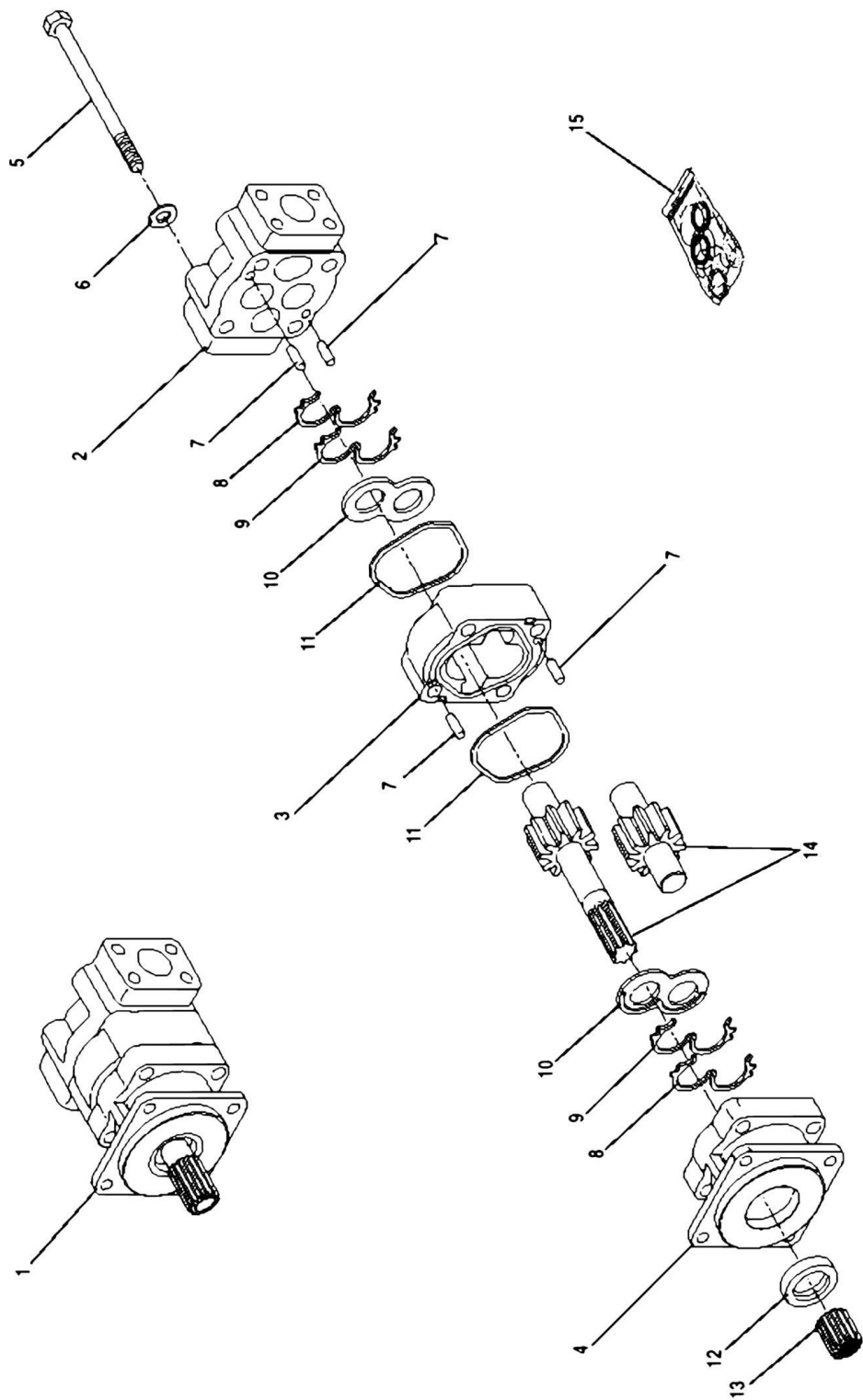
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-3. UNLOADER VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902200	1	Valve, Unloader (Includes Items 2 thru 4)	
2	8035774	1	Valve, Check - Preset at 125 psi (8,6 bar)	
3	8036356	1	Valve, Relief (3400/3500 psi (234/241 bar)	
4	8035775	1	Valve, Differential Pressure Sense	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-4. GEAR PUMP ASSEMBLY 4270



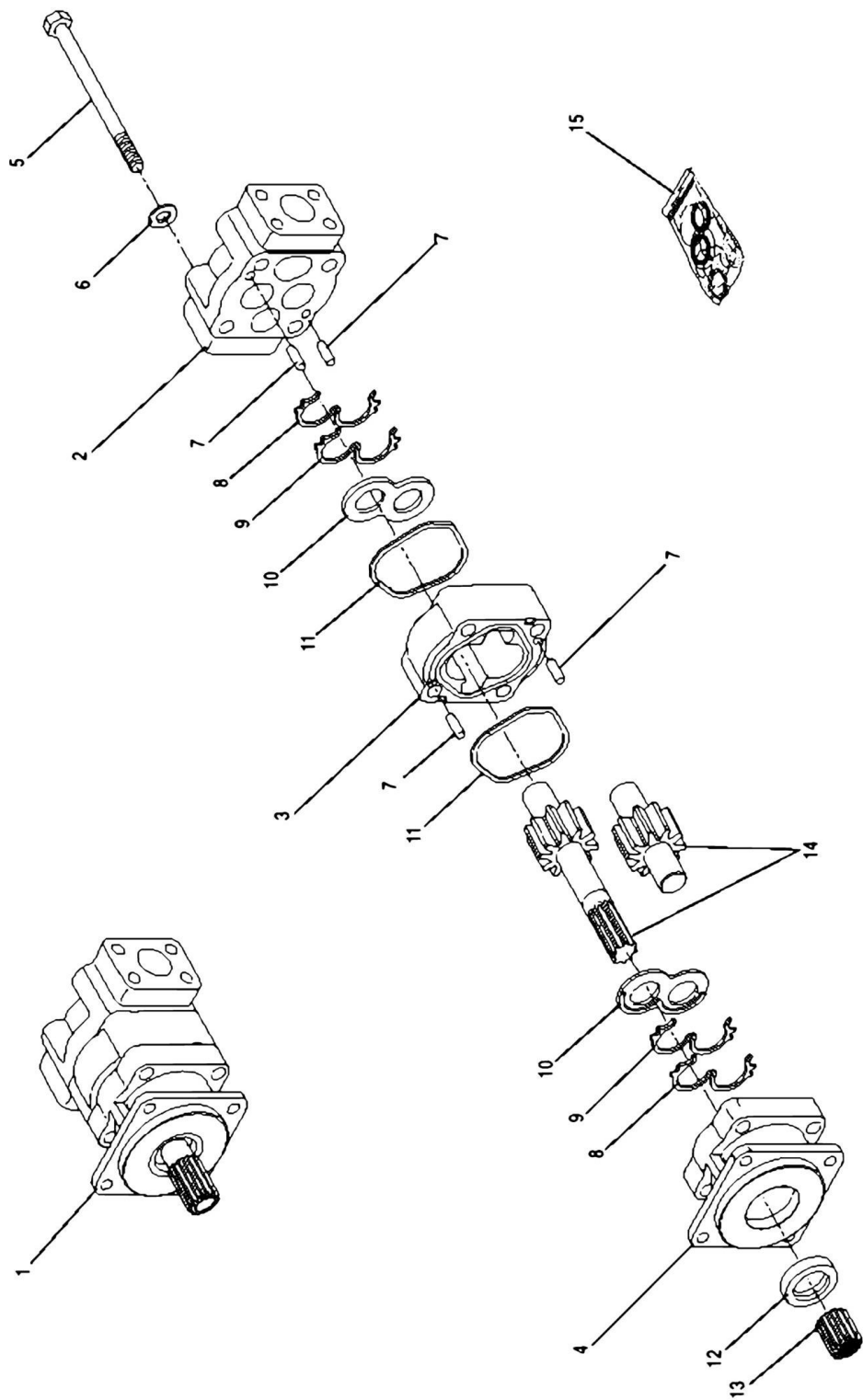
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-4. GEAR PUMP ASSEMBLY 4270

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8440156	1	Pump, Gear (Includes Items 2 thru 14)	
2	8035746	1	Housing, PEC	
3	8035263	1	Housing, Gear	
4	8035747	1	Housing, SEC	
5	8035745	4	HHCS	
6	8035261	4	Washer	
7	8035259	4	Dowel	
8	See Kits	2	Seal, Back-Up	
9	See Kits	2	Seal, Channel	
10	See Kits	2	Plate, Thrust	
11	See Kits	2	Seal, Square R	
12	See Kits	1	Seal, Lip	
13	8035744	1	Adapter, Spline	
14	8035262	1	Set, Gear Shaft	
		Ref	KITS	
15	8035093		Seal Kit	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-5. GEAR PUMP ASSEMBLY 4290



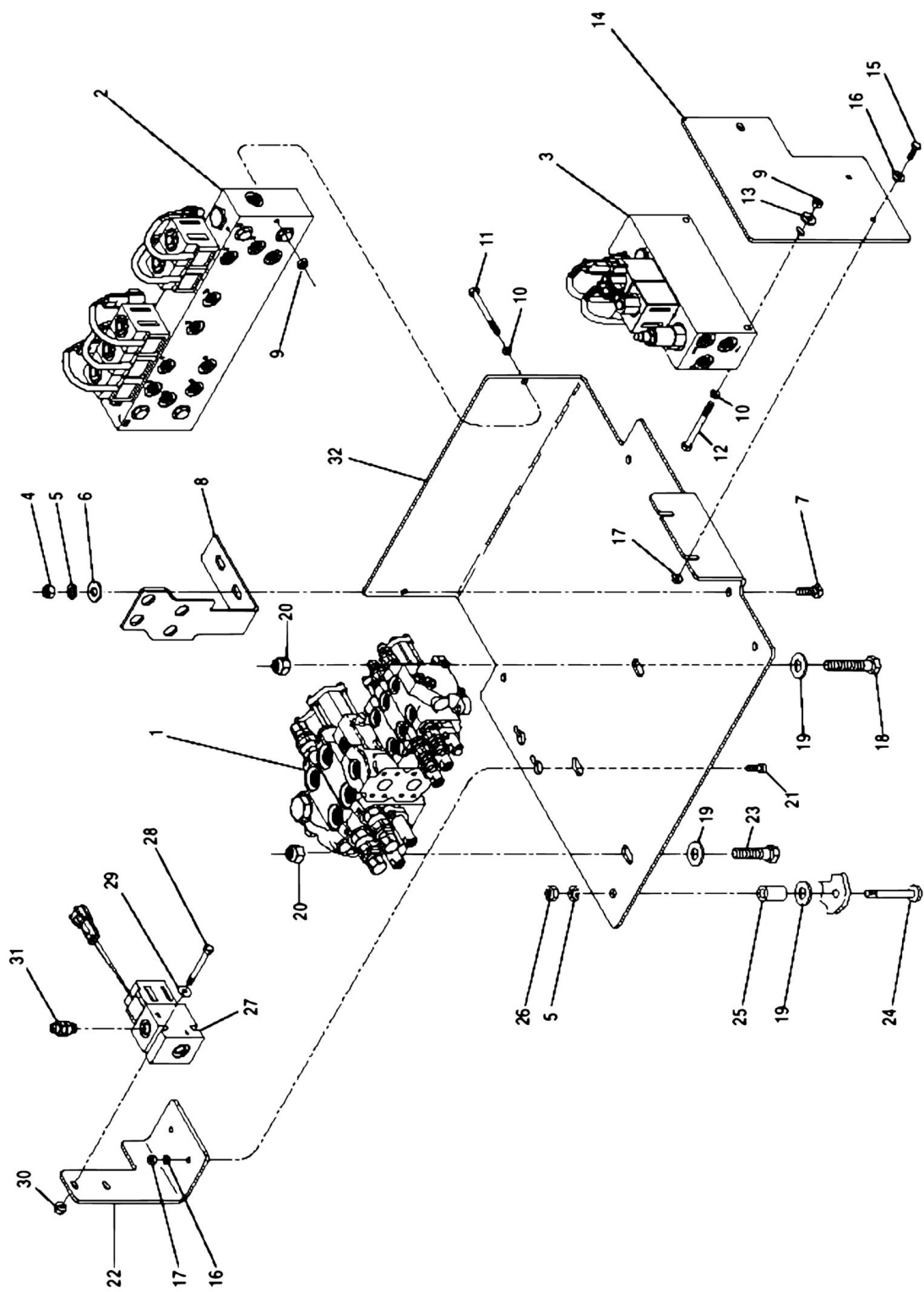
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-5. GEAR PUMP ASSEMBLY 4290

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8440162	1	Pump, Gear (Includes Items 2 thru 14)	
2	8035746	1	Housing, PEC	
3	8035263	1	Housing, Gear	
4	8035747	1	Housing, SEC	
5	8035745	4	HHCS	
6	8035261	4	Washer	
7	8035259	4	Dowel	
8	See Kits	2	Seal, Back-Up	
9	See Kits	2	Seal, Channel	
10	See Kits	2	Plate, Thrust	
11	See Kits	2	Seal, Square R	
12	See Kits	1	Seal, Lip	
13	8035744	1	Adapter, Spline	
14	8036271	1	Set, Gear Shaft	
		Ref	KITS	
15	8036271		Seal Kit	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-6. VALVES/MANIFOLD AND BRACKETS



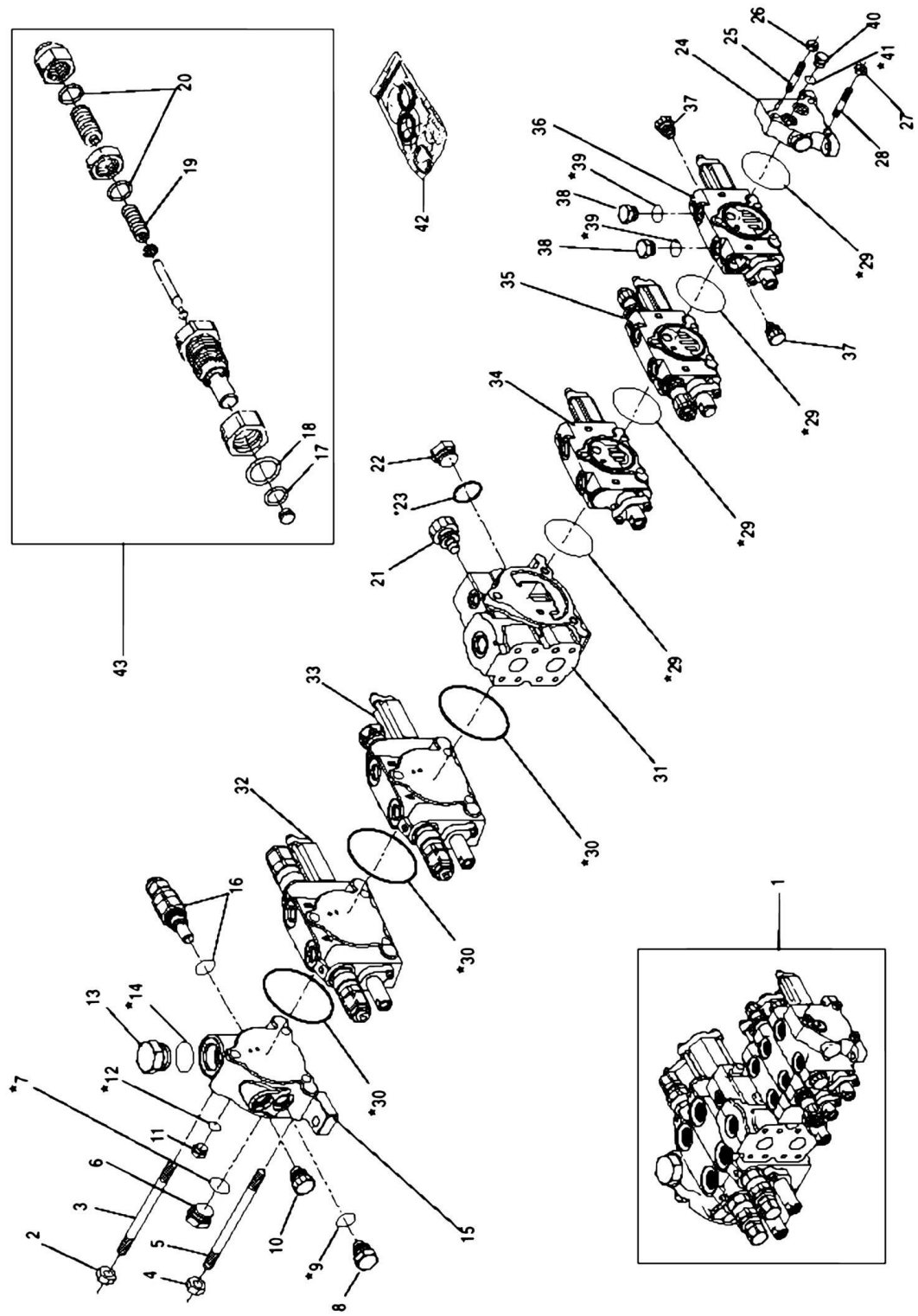
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-6. VALVES/MANIFOLD AND BRACKETS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902183	1	Valve, Main Control (w/Auxiliary Hydraulics) (See MAIN CONTROLR VALVE ASSEMBLY (W/O AUXILIARY) to SECTION ASSEMBLY AUXILIARY for Breakdown)	
1	8902201	1	Valve, Main Control (w/o Auxiliary Hydraulics) (See MAIN CONTROLR VALVE ASSEMBLY (W/O AUXILIARY) to SECTION ASSEMBLY AUXILIARY for Breakdown)	
2	8902182	1	Manifold, Pilot Select (See PILOT SELECT MANIFOLD ASSEMBLY for Breakdown)	
3	8902180	1	Valve, Auxiliary Detent (See AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT SECTION for Tube Connections and AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT SECTION for Breakdown)	
4	8305008	2	Nut, Hex, 3/8in-16 NC	
5	8307005	6	Washer, Lock 3/8in	
6	8307204	2	Washer, Plain 3/8in	
7	8303620	2	HHCS, 3/8-16 x 1.00in	
8	7137022	1	Bracket, Bulkhead, Pilot Valve	
9	8305006	4	Nut, Hex 5/16in-18	
10	8307004	4	Washer, Lock 5/16in	
11	8303766	2	HHCS, 5/16in-18 x 2-3/4in	
12	8310380	2	HHCS, 5/16in-18 NC x 3-1/4in	
13	8307203	2	Washer, Plain 5/16in	
14	7138790	1	Bracket, Aux Detent Selector Valve	
15	8310484	2	Bolt, Carriage 1/4-20 x 1.00in	
16	8307002	4	Washer, Lock 1/4in	
17	8305004	4	Nut, Hex 1/4in-20	
18	8303693	1	HHCS, 1/2in-13 NC x 2-1/2in	
19	8307206	7	Washer, Plain 1/2in	
20	8305644	3	Nut, Hex Lock Elastic, 1/2in-13	
21	8310484	2	Bolt, Carriage, 1/4-20 x 1in	
22	7136892	1	Bracket, Dump Valve	
23	8303627	2	HHCS, 1/2in-13 NC x 1-3/4in	
24	8310281	4	Bolt, Carriage 3/8-16 x 2.25in	
25	7116691	4	Spacer	
26	8305603	4	Nut, Hex Lock 3/8in-16	
27	8902191	1	Valve, Solenoid Dump	
28	8303703	2	HHCS, 1/4in-20 x 2-1/2in	
29	8307202	2	Washer, Plain 1/4in	
30	8310382	2	Nut, Flange, 1/4in-20	
31	8770106	1	Connector, SAE 6 - str thd ORB x OFS	
32	7135773	1	Bracket, Main Valve	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-7. MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY)



SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-7. MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY)

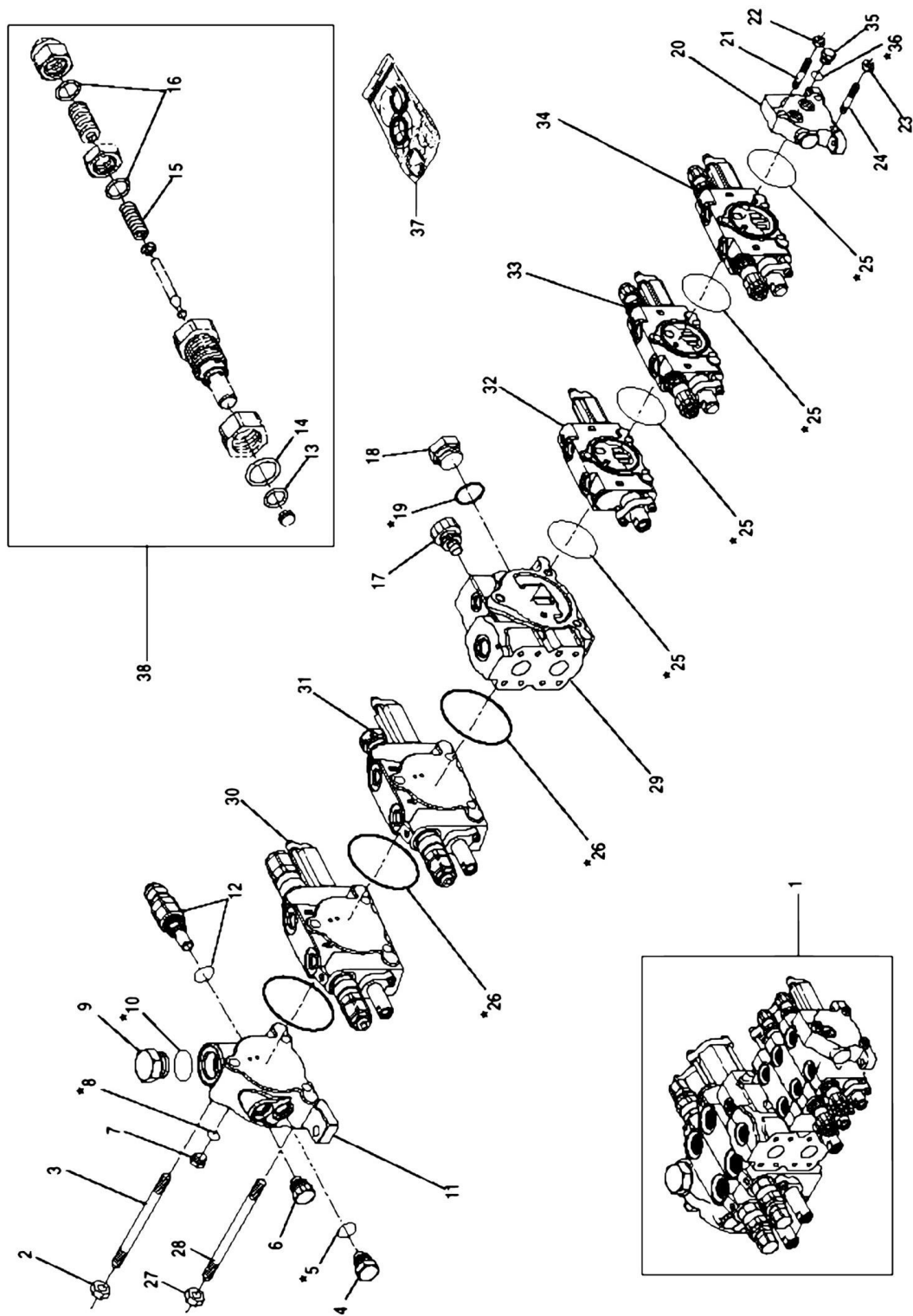
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902201	1	Valve, Main Control (w/o Auxiliary Hydraulics) (Includes Items 2 thru 41)	
2	8035347	1	Nut	
3	8036282	1	Tie Rod	
4	8035381	2	Nut	
5	8036281	2	Tie Rod	
6	8035836	1	Plug	
7	See Kits	1	O-Ring	
8	8035834	1	Plug	
9	See Kits	1	O-Ring	
10	8035841	1	Shut-Off Plug Assembly	
11	8035843	1	Plug	
12	See Kits	1	O-Ring	
13	8035835	1	Plug	
14	See Kit	1	O-Ring	
15	8036263	1	Outlet Section Assembly	
16	8035844	1	Main Relief Valve Assembly Preset at 3800 ± 50psi (Includes O-Ring) (For Seal Kit use Item 43)	
17	See Kits	1	O-Ring	
18	See Kits	1	O-Ring	
19	See Kits	1	Spring	
20	See Kits	2	O-Ring	
21	8035841	1	Shut-Off Plug Assembly	
22	8035834	1	Plug	
23	See Kit	1	O-Ring	
24	8035345	1	Outlet Section Assembly	
25	8036283	1	Tie Rod	
26	8035346	1	Nut	
27	8035348	2	Nut	
28	8036284	2	Tie Rod	
29	8036260	4	O-Ring	
30	8036284	3	O-Ring	
31	8035849	1	Mid-Inlet Section Assembly (includes 1 each of Item 29 & 30)	
32		Ref	Section Assembly Boom Extend/Retract (See SECTION ASSEMBLY - BOOM EXTEND/RETRACT for Breakdown)	
33		Ref	Section Assembly Boom Lift/Lower (See SECTION ASSEMBLY - BOOM LIFT/LOWER for Breakdown)	
34		Ref	Frame Tilt Section Assembly (See SECTION ASSEMBLY – FRAME TILT for Breakdown)	
35		Ref	Attachment Tilt Section Assembly (See SECTION ASSEMBLY – ATTACHMENT TILT for Breakdown)	
36		Ref	Auxiliary Section Assembly (See SECTION ASSEMBLY AUXILIARY for Breakdown)	
37	8760419	2	Plug, Shut Off (w/o Auxiliary Hydraulics)	
38	8760419	2	Plug	
39	See Kit	1	O-Ring	
40	8035843	2	Plug	
41	See Kit	1	O-Ring	
		Ref	KITS	
42	8036285	1	Seal Kit Entire Valve (Includes Items with 7, 9, 12, 14, 23, 29, 30, 39 & 41 See MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) and SECTION ASSEMBLY BOOM	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	8036183	1	EXTEND/RETRACT thru SECTION ASSEMBLY AUXILIARY for Breakdown) Seal and Spring Kit, Relief Valve (For Item 16) (Includes Items 17, 18, 19 & 20)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-8. MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY)



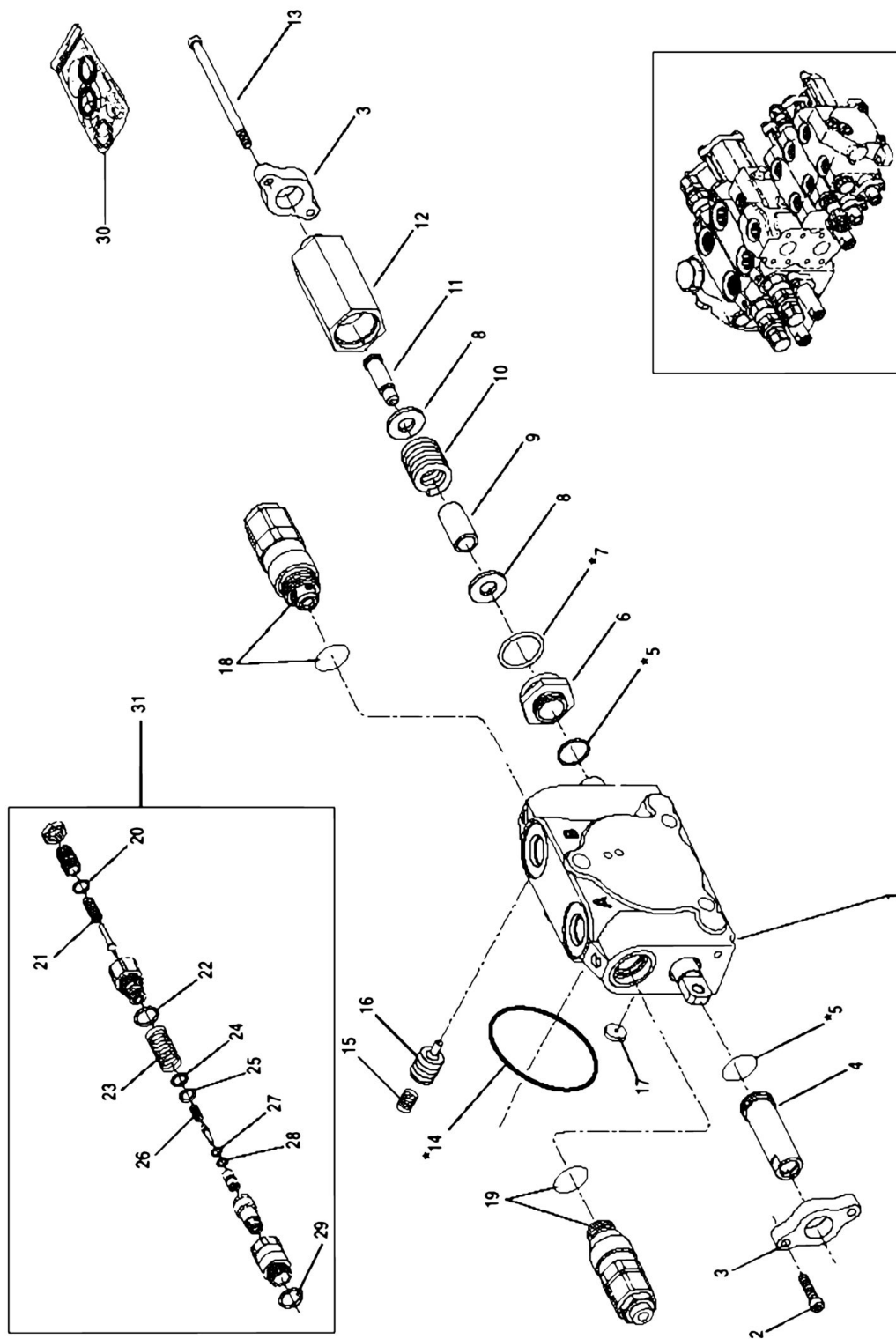
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-8. MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902183	1	Valve, Main Control (w/Auxiliary Hydraulics) (Includes Items 2 thru 36)	
2	8035347	1	Nut	
3	8036282	1	Tie Rod	
4	8035834	1	Plug (w/o Auxiliary Hydraulics)	
5	See Kits	1	O-Ring	
6	8035841	1	Shut-Off Plug Assembly	
7	8035843	1	Plug	
8	See Kits	1	O-Ring	
9	8035835	1	Plug	
10	See Kits	2	O-Ring	
11	8036263	1	Outlet Section Assembly	
12	8035844	1	Main Relief Valve Assembly Preset at 3800 ± 50 psi (Includes O-Ring) (For Seal Kit use Item 38)	
13	See Kits	1	O-Ring	
14	See Kits	1	O-Ring	
15	See Kits	1	Spring	
16	See Kits	2	O-Ring	
17	8035841	1	Shut-Off Plug Assembly	
18	8035834	1	Plug	
19	See Kits	1	O-Ring	
20	8035345	1	Outlet Section Assembly	
21	8036283	1	Tie Rod	
22	8035346	1	Nut	
23	8035348	2	Nut	
24	8036284	2	Tie Rod	
25	8036260	1	O-Ring	
26	8034697	1	O-Ring	
27	8035381	2	Nut	
28	8036281	2	Tie Rod	
29	8035849	1	Mid-Inlet Section Assembly (Includes 1 each of Items 25 & 26)	
30		Ref	Section Assembly Boom Extend/Retract (See SECTION ASSEMBLY - BOOM EXTEND/RETRACT for Breakdown)	
31		Ref	Section Assembly Boom Lift/Lower (See SECTION ASSEMBLY - BOOM LIFT/LOWER for Breakdown)	
32		Ref	Frame Tilt Section Assembly (See SECTION ASSEMBLY - FRAME TILT for Breakdown)	
33		Ref	Attachment Tilt Section Assembly (See SECTION ASSEMBLY - ATTACHMENT TILT for Breakdown)	
34		Ref	Auxiliary Section Assembly (See SECTION ASSEMBLY AUXILIARY for Breakdown)	
35	8035843	2	Plug	
36		Ref	O-Ring	
		Ref	KITS	
37	8036285	1	Seal Kit Entire Valve (Includes 5, 8, 10, 19, 25, 26 & 36 See MAIN CONTROLR VALVE ASSEMBLY (W/AUXILIARY) and SECTION ASSEMBLY - BOOM EXTEND/RETRACT thru SECTION ASSEMBLY AUXILIARY for Breakdown)	
38	8036183	1	Seal and Spring Kit, Relief Valve (For Item12) (Includes Items 13, 14, 15 & 16)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-9. SECTION ASSEMBLY - BOOM EXTEND/RETRACT



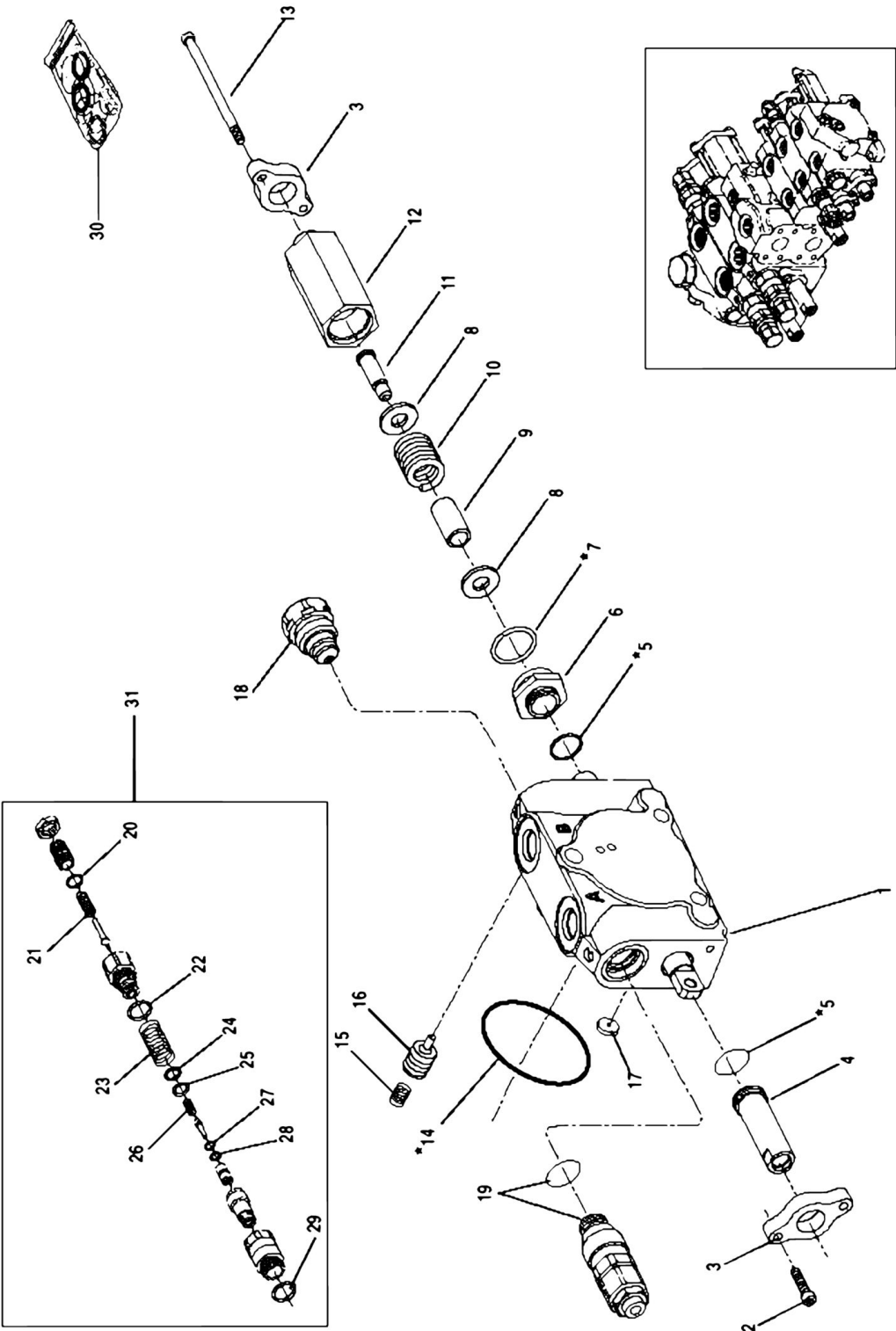
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-9. SECTION ASSEMBLY - BOOM EXTEND/RETRACT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035850	1	Section Assembly Boom Extend/Retract (Includes Items 2 thru 16)	
2	8035350	2	SHCS	
3	8035368	2	Retainer	
4	8035369	1	Cap, Spool	
5	See Kits	2	O-Ring	
6	8035378	1	Retainer, Spool Cap	
7	See Kits	1	O-Ring	
8	8035361	2	Washer, Flat	
9	8035360	1	Spacer	
10	8035355	1	Spring	
11	8035362	1	Screw, Shoulder Socket Hd	
12	8035370	1	Cap, Spool	
13	8035377	2	SHCS	
14	8034697	1	O-Ring	
15	8035358	1	Spring	
16	8035367	1	Poppet	
17	8035845	1	Shuttle	
18	8036007	1	Relief Valve Assembly - Preset at 3750 ± 50 psi (258 ± 3,4 bar) (Includes O-Ring) (For Seal Kit Use Item 31)	
19	8035839	1	Relief Valve Assembly - Preset at 3000 ± 50 psi (207 ± 3,4 bar) (Includes O-Ring) (For Seal Kit Use Item 31)	
22	See Kits	1	O-Ring	
23	See Kits	1	Spring	
22	See Kits	1	O-Ring	
23	See Kits	1	Spring	
24	See Kits	1	Ring, Back-Up	
25	See Kits	1	O-Ring	
26	See Kits	1	Spring	
27	See Kits	1	Ring, Back-Up	
28	See Kits	1	O-Ring	
29	See Kits	1	O-Ring	
		Ref	KITS	
30	8036285	1	Seal Kit, Entire Valve (Includes items 5,7,14 on MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) or MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY) thru SECOND ASSEMBLY AUXILIARY)	
31	8035856	1	Seal and Spring Kit (Includes Items 20 thru 29)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-10. SECTION ASSEMBLY - BOOM LIFT/LOWER



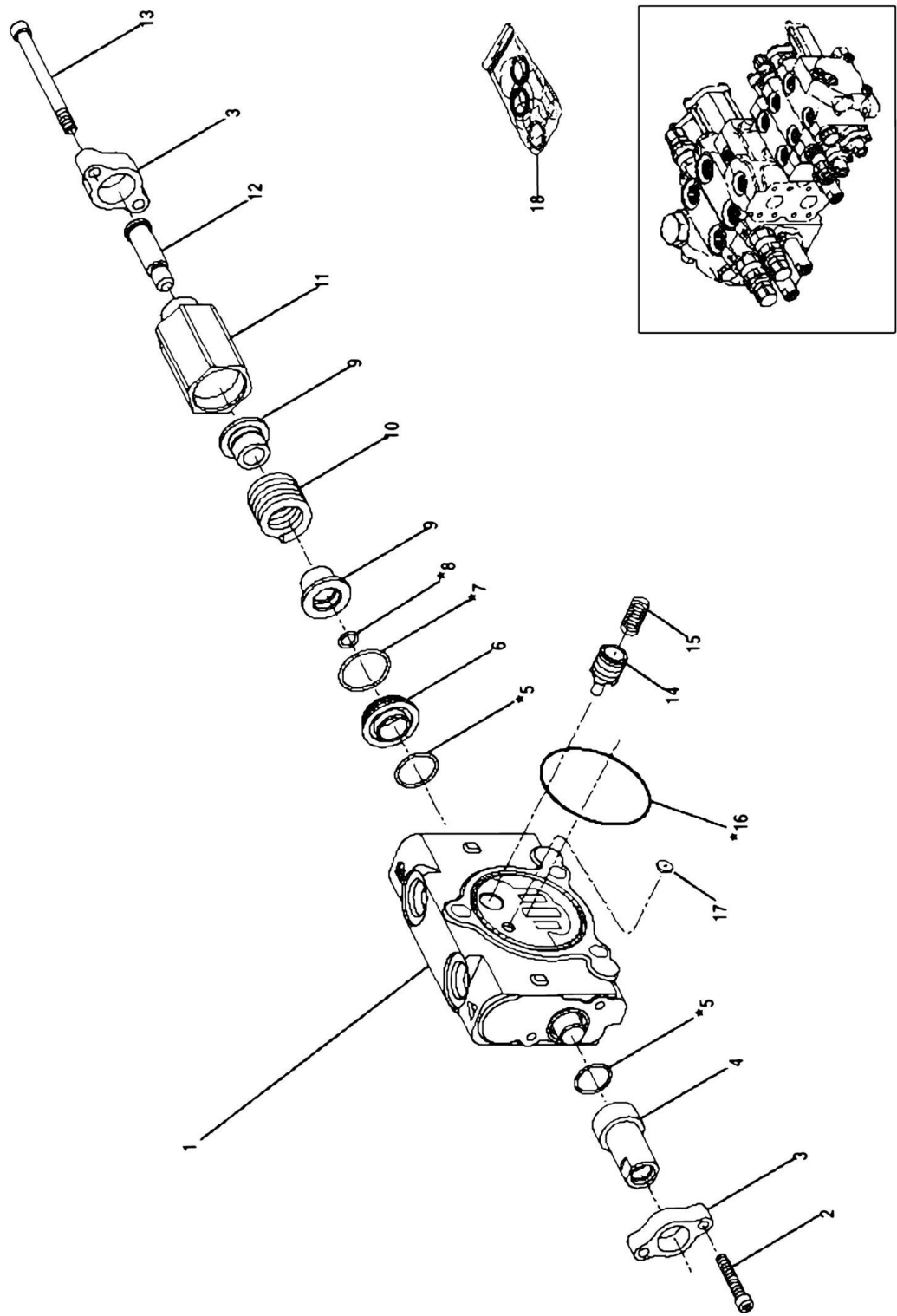
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-10. SECTION ASSEMBLY - BOOM LIFT/LOWER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035850	1	Section Assembly Boom Lift/Lower (Includes Items 2 thru 16)	
2	8035350	2	SHCS	
3	8035368	2	Retainer	
4	8035369	1	Cap, Spool	
5	See Kits	5	O-Ring	
6	8035378	1	Retainer, Spool Cap	
7	See Kits	1	O-Ring	
8	8035361	2	Washer, Flat	
9	8035360	1	Spacer	
10	8035355	1	Spring	
11	8035362	1	Screw, Shoulder Socket Hd	
12	8035370	1	Cap, Spool	
13	8035377	2	SHCS	
14	8034697	1	O-Ring	
15	8035358	1	Spring	
16	8035367	1	Poppet	
17	8035845	3	Shuttle	
18	8035363	1	Anti-Void Assembly	
19	8036007	1	Relief Valve Assembly - Preset at 3750 ± 50 psi (258 ± 3,4 bar) (Includes O-Ring) (For Seal Kit Use Item 31)	
20	See Kits	1	O-RING	
21	See Kits	1	Spring	
22	See Kits	1	O-RING	
23	See Kits	1	Spring	
24	See Kits	1	Ring, Back-Up	
22	See Kits	1	O-RING	
26	See Kits	1	Spring	
24	See Kits	1	Ring, Back-Up	
25	See Kits	1	O-RING	
28	See Kits	1	O-RING	
		Ref	KITS	
30	8036285	1	Seal Kit, Entire Valve (Includes items 5,7,14 on MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) or MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY) thru SECOND ASSEMBLY AUXILIARY)	
31	8035856		Seal and Spring Kit (Includes Items 20 thru 29)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-11. SECTION ASSEMBLY - FRAME TILT



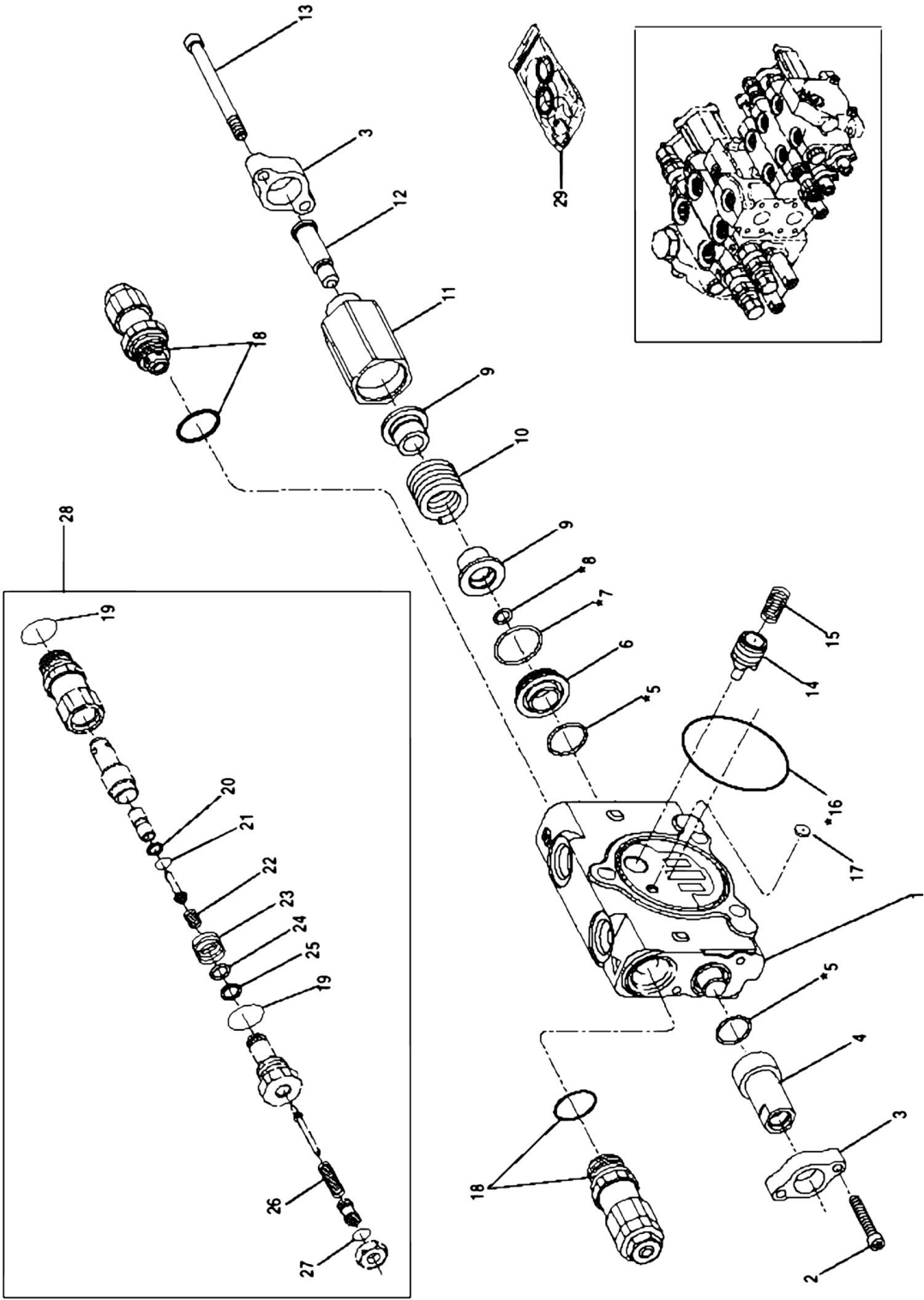
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-11. SECTION ASSEMBLY - FRAME TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035846	1	Frame Tilt Section Assembly (Includes Items 2 thru 16)	
2	8035357	2	SHCS	
3	8035373	2	Retainer	
4	8035372	1	Cap, Spool	
5	See Kit	2	O-Ring	
6	8035374	2	Retainer, Spool Cap	
7	See Kit	1	O-Ring	
8	See Kit	1	O-Ring	
9	8035376	2	Seat, Spring	
10	8035356	1	Spring	
11	8036286	1	Cap, Spool	
12	8035375	1	End, Spool	
13	8035359	2	SHCS	
14	8035366	1	Poppet	
15	8035365	1	Spring	
16	8036260	1	O-Ring	
17	8035045	1	Shuttle	
		Ref	KITS	
18	8036285	1	Seal Kit, Entire Valve (Includes Items 5, 7, 8 & 16 on MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) or MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY) thru SECTION ASSEMBLY AUXILIARY)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-12. SECTION ASSEMBLY - ATTACHMENT TILT



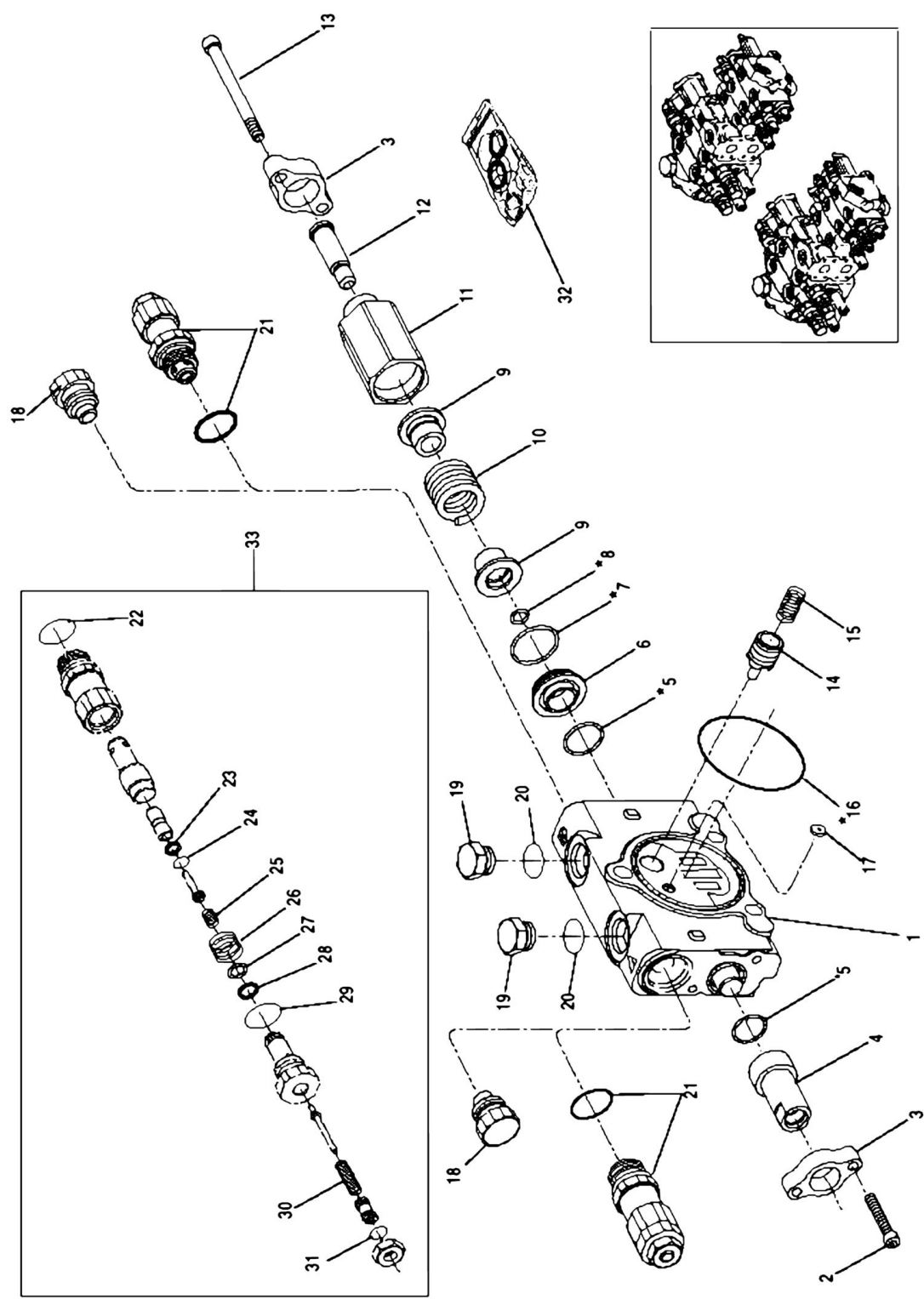
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-12. SECTION ASSEMBLY - ATTACHMENT TILT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035847	1	Attachment Tilt Section Assembly (Includes Items 2 thru 16)	
2	8035357	2	SHCS	
3	8035373	2	Retainer	
4	8035372	1	Cap, Spool	
5	See Kit	2	O-Ring	
6	8035374	1	Retainer, Spool Cap	
7	See Kit	1	O-Ring	
8	See Kit	1	O-Ring	
9	8035376	2	Seat, Spring	
10	8035356	1	Spring	
11	8036286	1	Cap, Spool	
12	8035375	1	End, Spool	
13	8035359	2	SHCS	
14	8035366	1	Poppet	
15	8035365	1	Spring	
16	8036260	1	O-Ring	
17	8035845	1	Shuttle	
18	8035840	2	Relief Valve Assembly - Preset at 4000 ± 50psi (For Seal Kit use Item 28)	
19	See Kits	2	O-Ring	
20	See Kits	1	Ring, Back-Up	
21	See Kits	1	O-Ring	
22	See Kits	1	Spring	
23	See Kits	1	Spring	
24	See Kits	1	O-Ring	
25	See Kits	1	Ring, Back-Up	
26	See Kits	1	Spring	
27	See Kits	1	O-Ring	
		Ref	KITS	
28	8035855	1	Seal and Spring Kit, Relief Valve (Includes Items 19 thru 27)	
29	8036285	1	Seal Kit, Entire Valve (Includes Items 5, 7, 8 & 16 on MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) or MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY) thru SECTION ASSEMBLY AUXILIARY)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-13. SECTION ASSEMBLY AUXILIARY



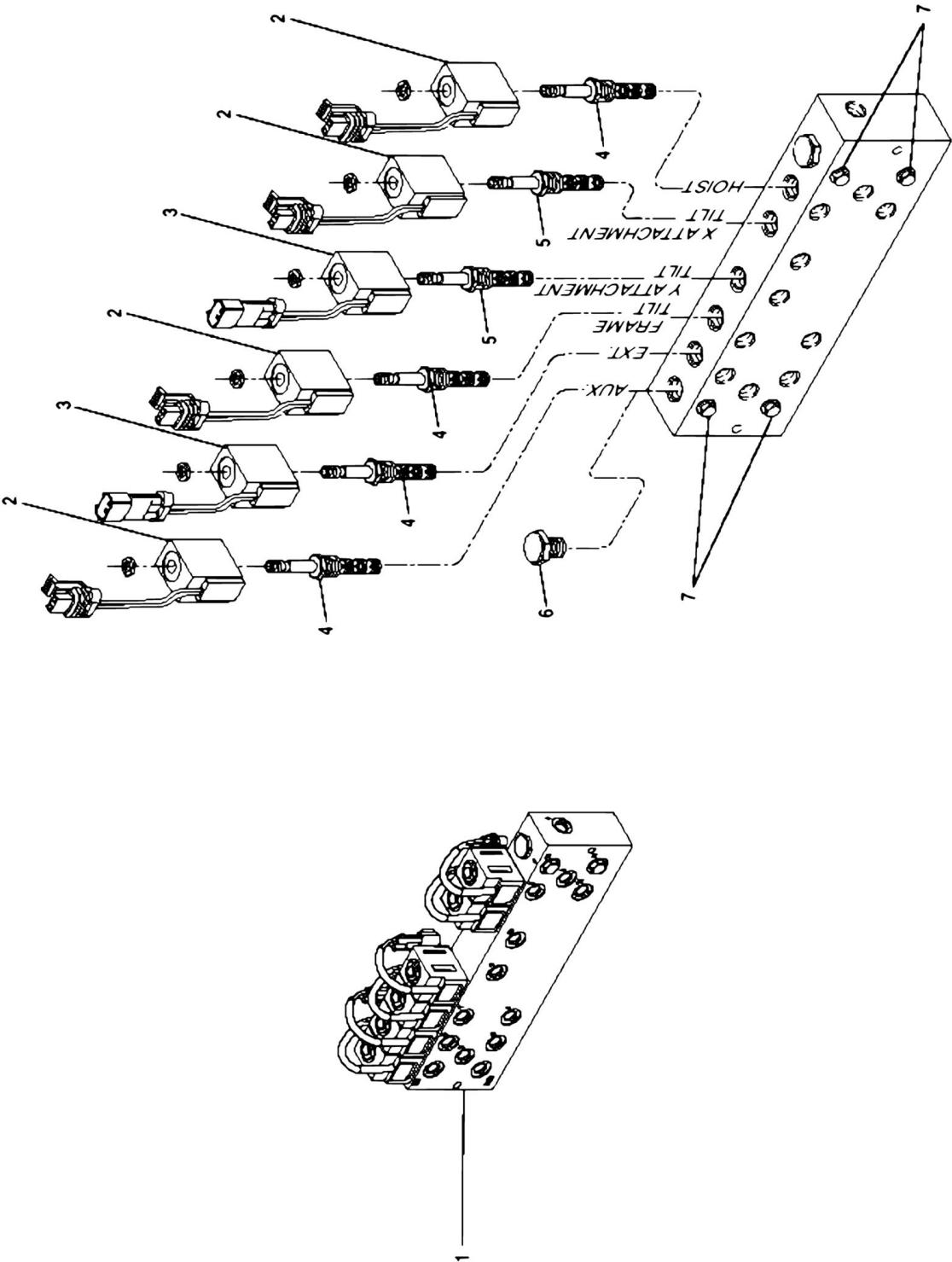
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-13. SECTION ASSEMBLY AUXILIARY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8035847	1	Auxiliary Section Assembly (Includes 2 thru 16)	
2	8035357	2	SHCS	
3	8035373	2	Retainer	
4	8035372	1	Cap, Spool	
5	See Kit	2	O-Ring	
6	8035374	1	Retainer, Spool Cap	
7	See Kit	1	O-Ring	
8	See Kit	1	O-Ring	
9	8035376	2	Seat, Spring	
10	8035356	1	Spring	
11	8036286	1	Cap, Spool	
12	8035375	1	End, Spool	
13	8035359	2	SHCS	
14	8035366	1	Poppet	
15	8035365	1	Spring	
16	8036260	1	O-Ring	
17	8035845	1	Shuttle	
18	8035842	2	Plug, Shut Off (w/o Auxiliary Hydraulics Only)	
19	8760419	2	Plug (w/o Auxiliary Hydraulics Only)	
20	8640025	2	O-Ring (w/o Auxiliary Hydraulics Only)	
21	8036194	2	Relief Valve - Preset at 3000 ± 50 psi (For seal kit use item 33)	
22	See Kits	1	O-Ring	
23	See Kits	1	Back Up-Ring	
24	See Kits	1	O-Ring	
25	See Kits	1	Spring	
26	See Kits	1	Spring	
27	See Kits	1	Back Up-Ring	
28	See Kits	1	O-Ring	
29	See Kits	1	O-Ring	
30	See Kits	1	Spring	
31	See Kits	1	O-Ring	
		Ref	KITS	
32	8036285	1	Seal Kit, Entire Valve (Includes Items 5, 7, 8 & 16 on MAIN CONTROL VALVE ASSEMBLY (W/O AUXILIARY) or MAIN CONTROL VALVE ASSEMBLY (W/AUXILIARY) thru SECTION ASSEMBLY AUXILIARY)	
33	8036287	1	Seal and Spring Kit, Relief Valve (for Item 21)	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-14. PILOT SELECT MANIFOLD ASSEMBLY



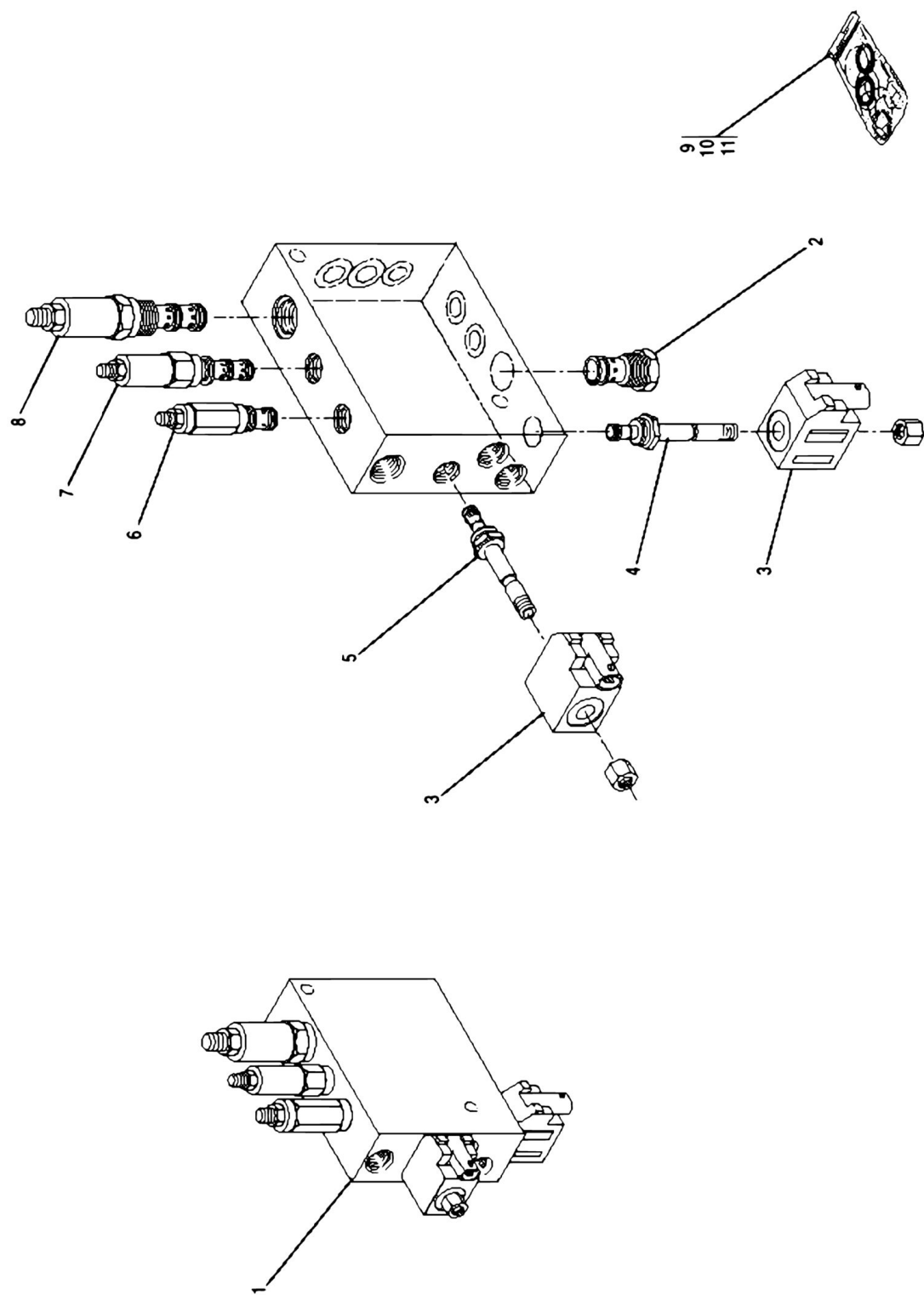
SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-14. PILOT SELECT MANIFOLD ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902195	1	Manifold, Pilot Select (Includes Items 2 thru 7)	
1	8902182	1	Manifold, Pilot Select w/Auxiliary/Auxiliary Detent Hydraulics (Includes Items 2 thru 7)	
2	8902693	3	Coil, Solenoid w/Female Connector (w/o Auxiliary Hydraulics)	
2	8902693	4	Coil, Solenoid w/Female Connector (w/Auxiliary Hydraulics)	
3	8902694	2	Coil, Solenoid w/Male Connector	
4	8902695	3	Cartridge, Solenoid Valve (w/o Auxiliary Hydraulics)	
4	8902695	4	Cartridge, Solenoid Valve (w/Auxiliary Hydraulics)	
5	8902700	2	Cartridge, Solenoid Valve	
6	8035799	2	Plug, Cavity (w/o Auxiliary Hydraulics)	
6	8035799	1	Plug, Cavity (w/Auxiliary Hydraulics)	
7	8760451	4	Plug, Hex Hd, SAE 6 - male str thd o-ring (w/o Auxiliary Hydraulics)	
7	8760451	2	Plug, Hex Hd, SAE 6 - male str thd o-ring w/Auxiliary Hydraulics	

SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

FIGURE 6-15. SECONDARY FUNCTION MANIFOLD



SECTION 6 - HYDRAULIC SYSTEM COMPONENTS

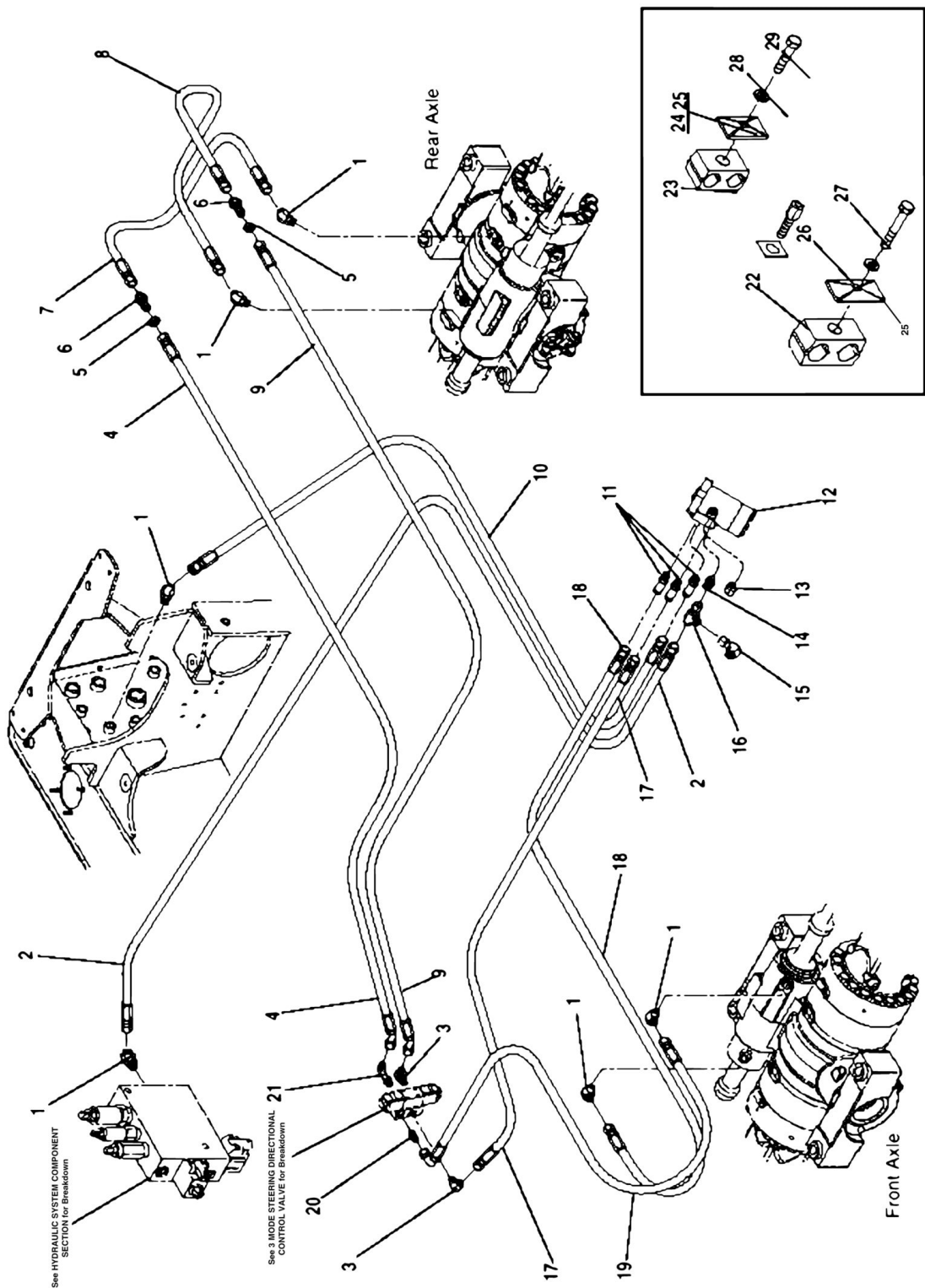
FIGURE 6-15. SECONDARY FUNCTION MANIFOLD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902196	1	Manifold, Secondary Function (Includes Items 2 thru 8)	
2	8032995	1	Valve, Check	
3	8902698	2	Coil, Solenoid w/Integrated Diode	
4	8902696	1	Cartridge, Solenoid Valve	
5	8902697	1	Cartridge, Solenoid Valve	
6	8032991	1	Valve, Pressure Reducing - Preset at 1400 psi (96 bar)	
7	8032993	1	Valve, Pressure Reducing - Preset at 900 psi (62 bar)	
8	8032989	1	Valve, Pressure Reducing - Preset at 2500 psi (172 bar)	
		Ref	KITS	
9	8032990	1	Seal Kit (For Servicing Item 8)	
10	8032994	1	Seal Kit (For Servicing Items 6 & 7)	
11	8032992	1	Seal Kit (For Servicing Items 2, 4 & 5)	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-1. 3 MODE STEERING HYDRAULIC CIRCUIT



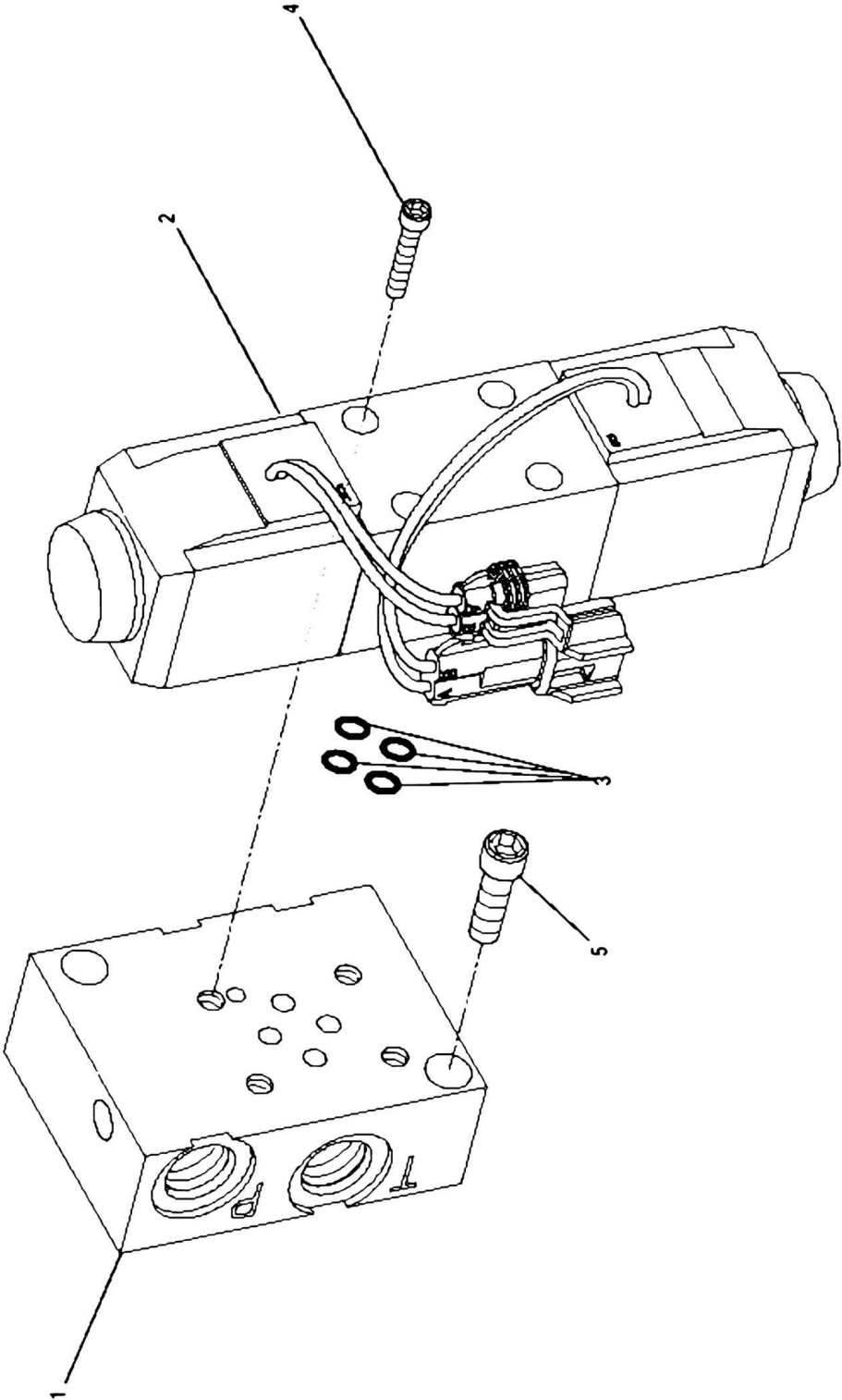
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-1. 3 MODE STEERING HYDRAULIC CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770127	6	Elbow, 45, SAE 8 - str. thd. ORB x OFS	
2	2716578	1	Hose, 0.50 x 108.63in	
3	8770114	2	Elbow, 90, SAE 8 - str thd ORB x OFS	
4	2716573	1	Hose, 0.50 x 87.75in	
5	8770129	2	Nut, Bulkhead, SAE 8 - OFS	
6	8770130	2	Connector, Bulkhead, SAE 8 - OFS	
7	2716538	1	Hose, 0.50 x 38.63in	
8	2716539	1	Hose, 0.50 x 35.25in	
9	2716574	1	Hose, 0.50 x 102.75in	
10	2716624	1	Hose, 0.50 x 113.00in	
11	8770117	3	Connector, Long, SAE 8 - str thd ORB x OFS	
12	8721029	1	Steering Orbital (See FRAME AND OPERATOR'S COMPARTMENT SECTION for mounting hardware)	
13	8770102	1	Elbow, 90, SAE 6-4 - str thd ORB x OFS	
14	8770131	1	Connector, Male Flat face tube, w/Inlet Check	
15	8770115	1	Elbow, 90, Swivel, SAE 8 - OFS	
16	8770125	1	Tee, Swivel Run, SAE 8 - o-ring face seal	
17	2716569	1	Hose, 0.50 x 88.38in	
18	2716568	1	Hose, 0.50 x 131.63in	
19	2716570	1	Hose, 0.50 x 139.00in	
20	8770116	1	Connector, SAE 8 - str thd ORB x OFS	
21	8770168	1	Elbow, Long, 90, SAE 8 - str thd ORB x OFS	
22	8750016	10	Clamp Set, 0.84 Dia Twin	
23	8750015	3	Clamp Set, 0.67 Dia	
24	8769128	4	Plate, Cover, Clamp Set, 0.67 Dia	
25	8769123	3	Plate, Cover, Clamp Set 0.84 Dia	
26	8750017	6	Plate, Locking	
27	8750012	3	Bolt, Stacking	
28	8307004	7	Washer, Lock 0.312	
29	8303715	3	HHCS, 0.312-18 NC x 1.500in	
30	8310009	4	HHCS, 0.312-18 NC x 2.000in	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-2. 3 MODE STEERING DIRECTIONAL CONTROL VALVE



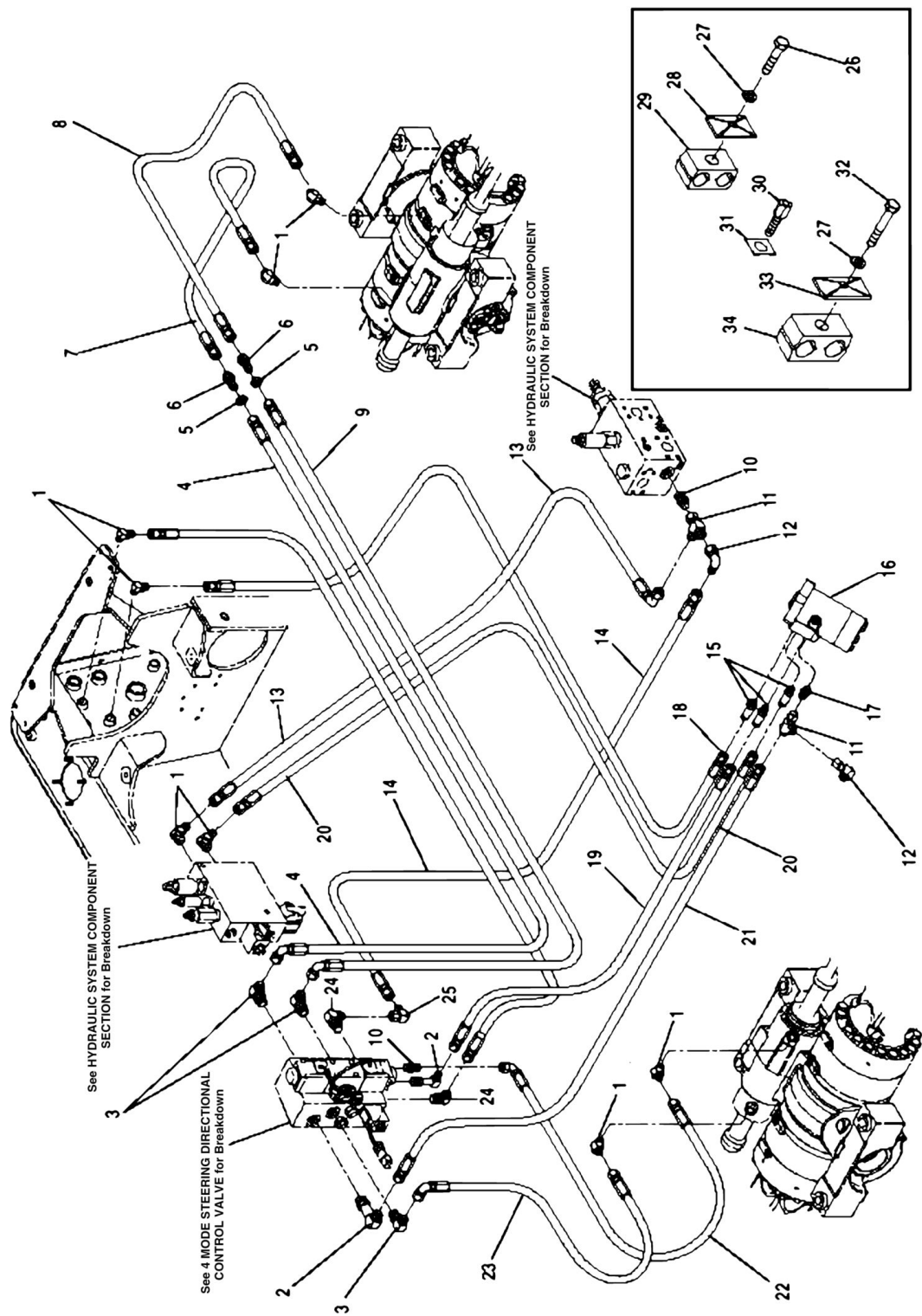
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-2. 3 MODE STEERING DIRECTIONAL CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902111	1	Subplate, Steer Select Valve	
2	8902197	1	Valve, Steer Select (Includes Item 3)	
3	8640017	AR	O-Ring	
4	8310327	4	SHCS, #10-24 NC x 1 1/8in	
5	8310326	2	SHCS, 5/16in-18 NC x 1 1/8in	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-3. 4 MODE STEERING HYDRAULIC CIRCUIT



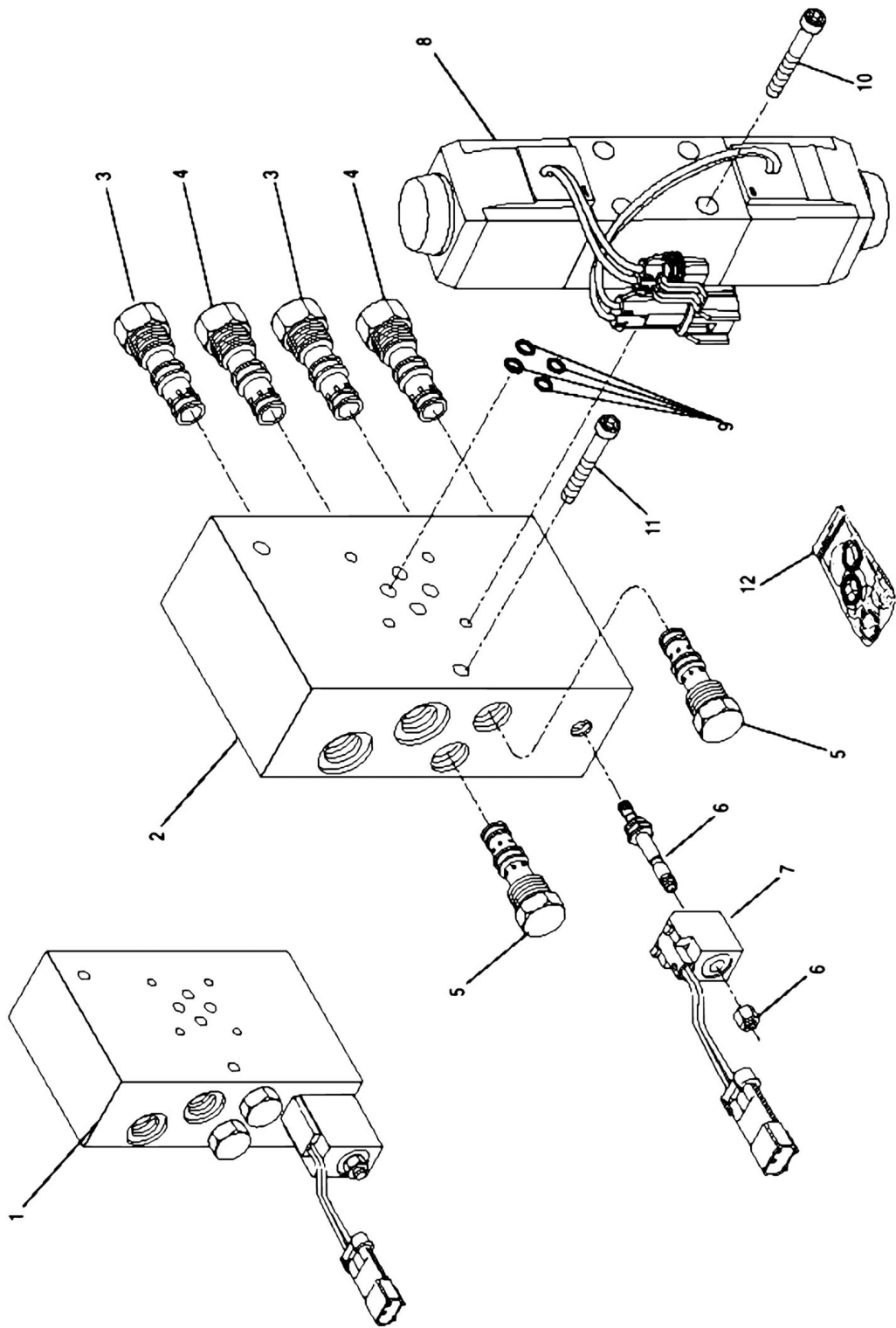
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-3. 4 MODE STEERING HYDRAULIC CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770127	8	Elbow, 45, SAE 8 - str thd ORB x OFS	
2	8770168	2	Elbow, Long, 90, SAE 8 - str thd ORB x OFS	
3	8770114	3	Elbow, 90, SAE 8 ORB x 8 FF	
4	2716574	1	Hose, 0.50 X 98.0in	
5	8770129	2	Nut, Bulkhead, SAE 8 - OFS	
6	8770130	2	Connector, Bulkhead, SAE 8 - OFS	
7	2716539	1	Hose, 0.50 x 35.25in	
8	2716538	1	Hose, 0.50 x 38.63in	
9	2716573	1	Hose, 0.50 x 87.75in	
10	8770116	2	Connector, SAE 8 - str thd ORB x OFS	
11	8770125	2	Tee, Swivel Run, SAE 8 - o-ring face seal	
12	8770115	2	Elbow, 90, Swivel, SAE 8 - OFS	
13	2716566	1	Hose, 0.50 x 16.0in	
14	2716523	1	Hose, 0.75 x 22.75in	
15	8770117	3	Connector, Long, SAE 8 - str thd ORB x OFS	
16	8721029	1	Steering Orbital (See FRAME AND OPERATOR'S COMPARTMENT SECTION for mounting hardware)	
17	8770131	1	Connector, Male Flat face tube, w/Inlet Check	
18	2716624	1	Hose, 0.50 x 113.00in	
19	2716569	1	Hose, 0.50 x 30.5in	
20	8776578	1	Hose, 0.75 x 87.75in	
21	2716569	1	Hose, 0.50 x 82.0in	
22	2716570	1	Hose, 0.50 x 115.00in	
23	2716720	1	Hose	
24	8770068	1	Elbow, 90, SAE 8 ORB x 8 FF	
25	8770105	1	Elbow, 90, Swivel, SAE 8 - OFS	
26	8303715	AR	HHCS, 0.312-18 NC x 1.500in	
27	8307004	AR	Washer, Lock 0.312	
28	8769128	AR	Plate, Cover, Clamp Set, 0.67 Dia	
29	8750015	AR	Clamp Set, 0.67 Dia	
30	8750012	AR	Bolt, Stacking	
31	8750017	AR	Plate, Locking	
32	8310009	AR	HHCS, 0.312-18 NC x 2.000in	
33	8769123	AR	Plate, Cover, Clamp Set, 0.84 Dia	
34	8750016	AR	Clamp Set, 0.84 Dia Twin	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-4. 4 MODE STEERING DIRECTIONAL CONTROL VALVE



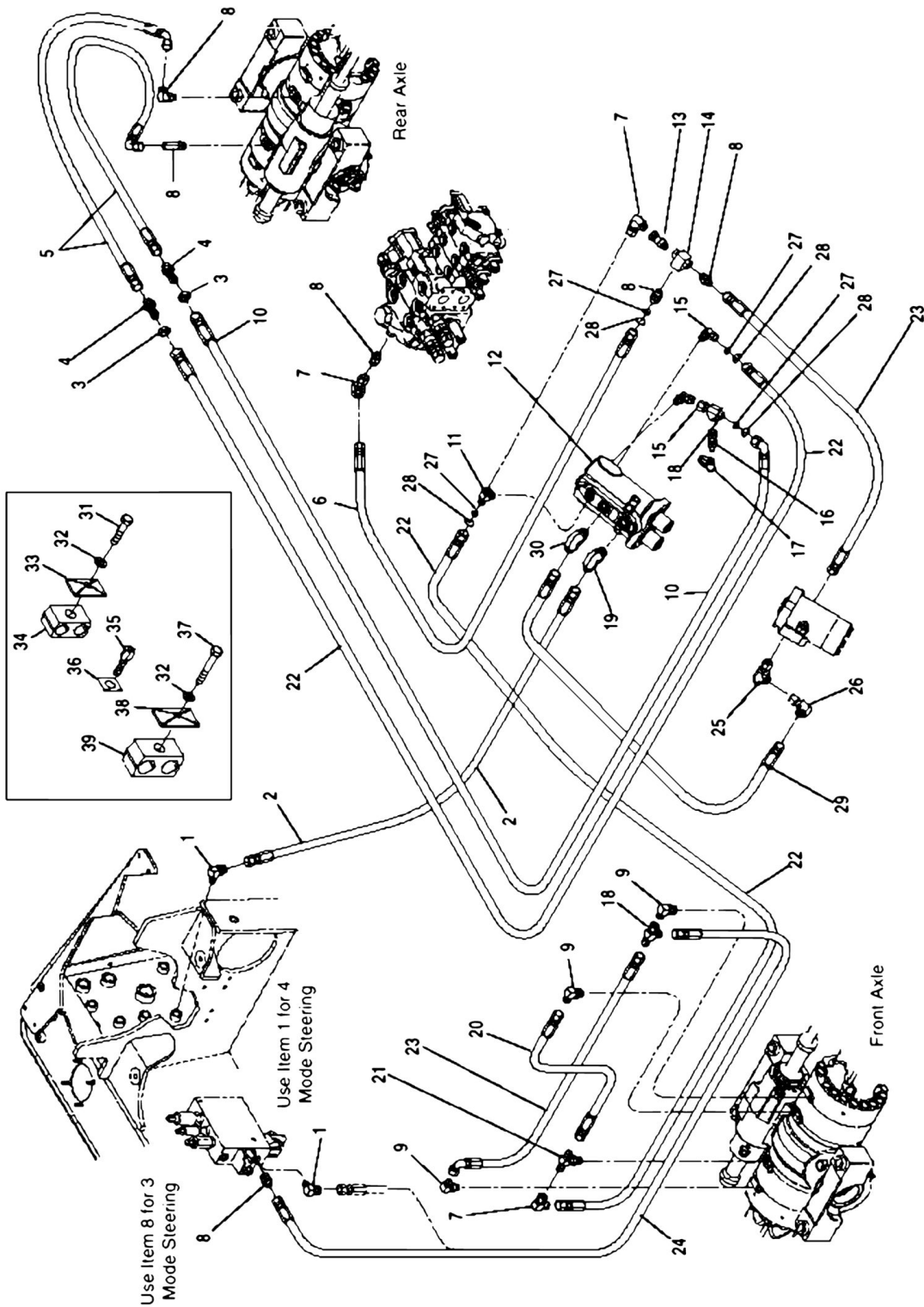
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-4. 4 MODE STEERING DIRECTIONAL CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902202	1	Valve, Rear Steer (includes Items 2-6)	
2	N.S.S.	1	Valve Block, Rear Steer	
3	8036247	2	Valve, LKC	
4	8036246	2	Valve, LOC	
5	8036245	2	Valve, Shuttle	
6	8036256	1	Cartridge, Solenoid Valve	
7	8036255	1	Valve, Solenoid	
8	8902197	1	Valve, Steer Select (Includes item 9)	
9	8640017	4	O-Ring	
10	8310327	4	SHCS, #10-24 NC x1.125in	
11	8310326	2	SHCS, 0.312-18 NC x 1.125in	
12	8036248	6	Seal Kit (For Items 2, 3 & 4)	
		Ref	N.S.S. = Not Sold Separately	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-5. SERVICE AND PARKING BRAKE HYDRAULIC CIRCUIT



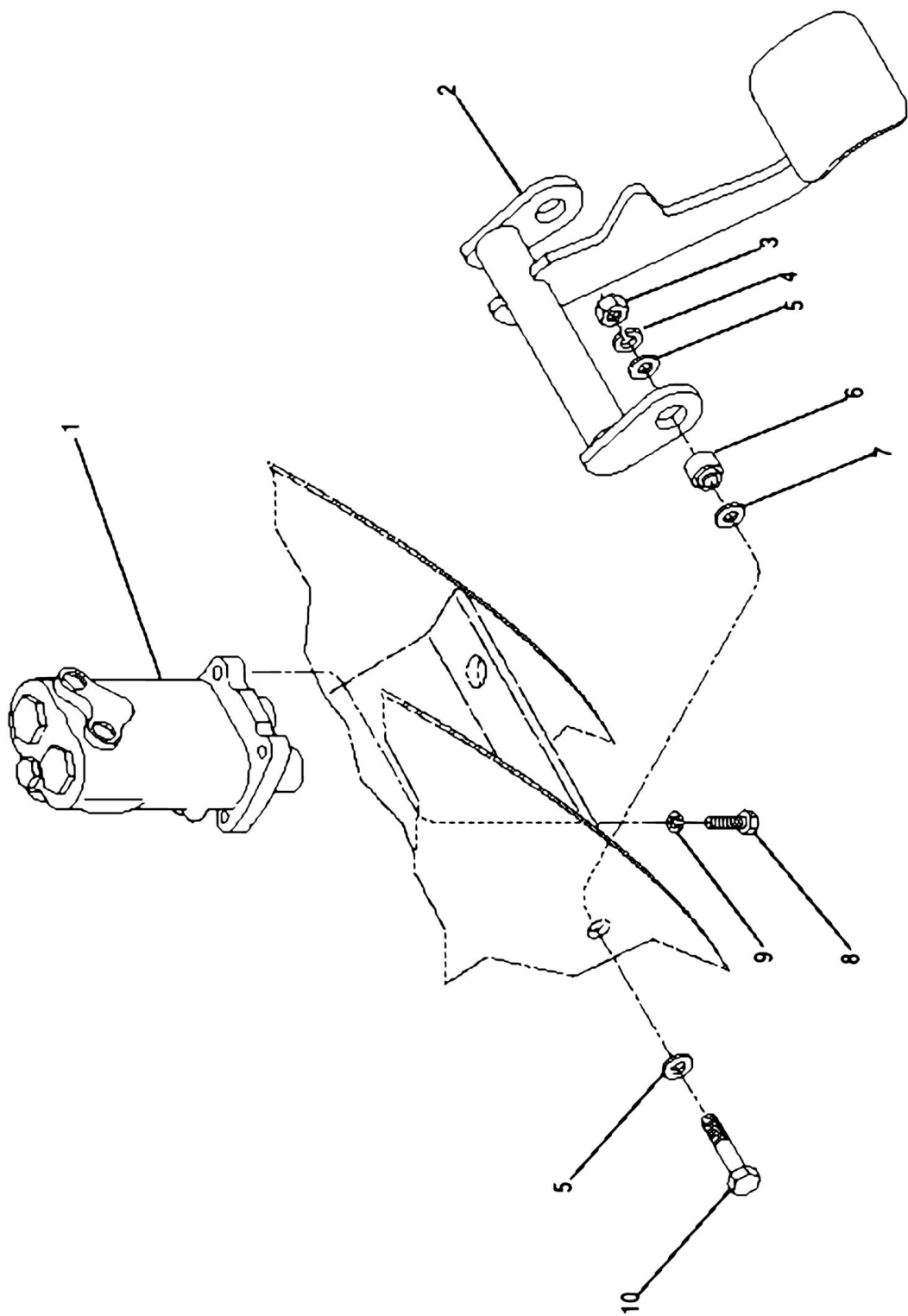
SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-5. SERVICE AND PARKING BRAKE HYDRAULIC CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770114	2	Elbow, 90, SAE 8 - str thd ORB x OFS	
2	2716623	1	Hose, 0.50 x 124.00in	
3	8770155	2	Nut, Bulkhead, SAE 6 - OFS	
4	8770169	2	Connector, Bulkhead, SAE 6 - OFS	
5	2716537	2	Hose, 0.38 x 31.75in	
6	2716650	1	Hose, 0.38 x 155.00in	
7	8770105	3	Elbow, 90, Swivel, SAE 6 - OFS	
8	8770106	6	Connector, SAE 6 - str thd ORB x OFS	
9	8770068	3	Elbow, 90, SAE 6 - str thd ORB x OFS	
10	2716577	1	Hose, 0.38 x 120.00in	
11	8770183	1	Tee, Branch, 6-M14 - metric str thd ORB x OFS (Includes O-Ring)	
12	8902274	1	Valve, Brake (Includes Items 11, 15, 19 & 30)	
13	8770176	1	Connector, Swivel SAE 6 - str thd ORB x OFS	
14	8902175	1	Valve, Shuttle	
15	8770109	2	Elbow, 90, M14-6 - metric str thd ORB x OFS (Includes O-Ring)	
16	8430081	1	Nipple, Diagnostic	
17	8430032	1	Plug, Dust	
18	8770111	2	Tee, Swivel Run, SAE 6 - OFS	
19	8770175	1	Elbow, 90, M22-8 - metric str thd ORB x OFS (Includes O-Ring)	
20	2716536	1	Hose, 0.38 x 7.50in	
21	8770112	1	Tee, Branch, SAE 6 - str thd ORB x OFS	
22	2716576	2	Hose, 0.38 x 116.00in	
23	2716648	2	Hose, 0.38 x 16.50in	
24	2716575	1	Hose, 0.38 x 117.50in	
25	8770125	2	Tee, Swivel Run, SAE 8 - o-ring face seal	
26	8770115	2	Elbow, 90, Swivel, SAE 8 - OFS	
27	8630003	4	Disk, Orifice	
28	7139212	4	O-Ring	
29	2716649	1	Hose .50 x 8.62	
30	8770121	1	Elbow, 90, 18mm ORB x 8 FF	
31	8303715	AR	HHCS, 0.312-18 NC x 1.500in	
32	8307004	AR	Washer, Lock 0.312	
33	8769128	AR	Plate, Cover, Clamp Set, 0.67 Dia	
34	8750015	AR	Clamp Set, 0.67 Dia	
35	8750012	AR	Bolt, Stacking	
36	8750017	AR	Plate, Locking	
37	8310009	AR	HHCS, 0.312-18 NC x 2.000in	
38	8769123	AR	Plate, Cover, Clamp Set, 0.84 Dia	
39	8750016	AR	Clamp Set, 0.84 Dia Twin	

SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

FIGURE 7-6. SERVICE BRAKE PEDAL MOUNTING



SECTION 7 - STEERING AND BRAKE HYDRAULIC CIRCUITS

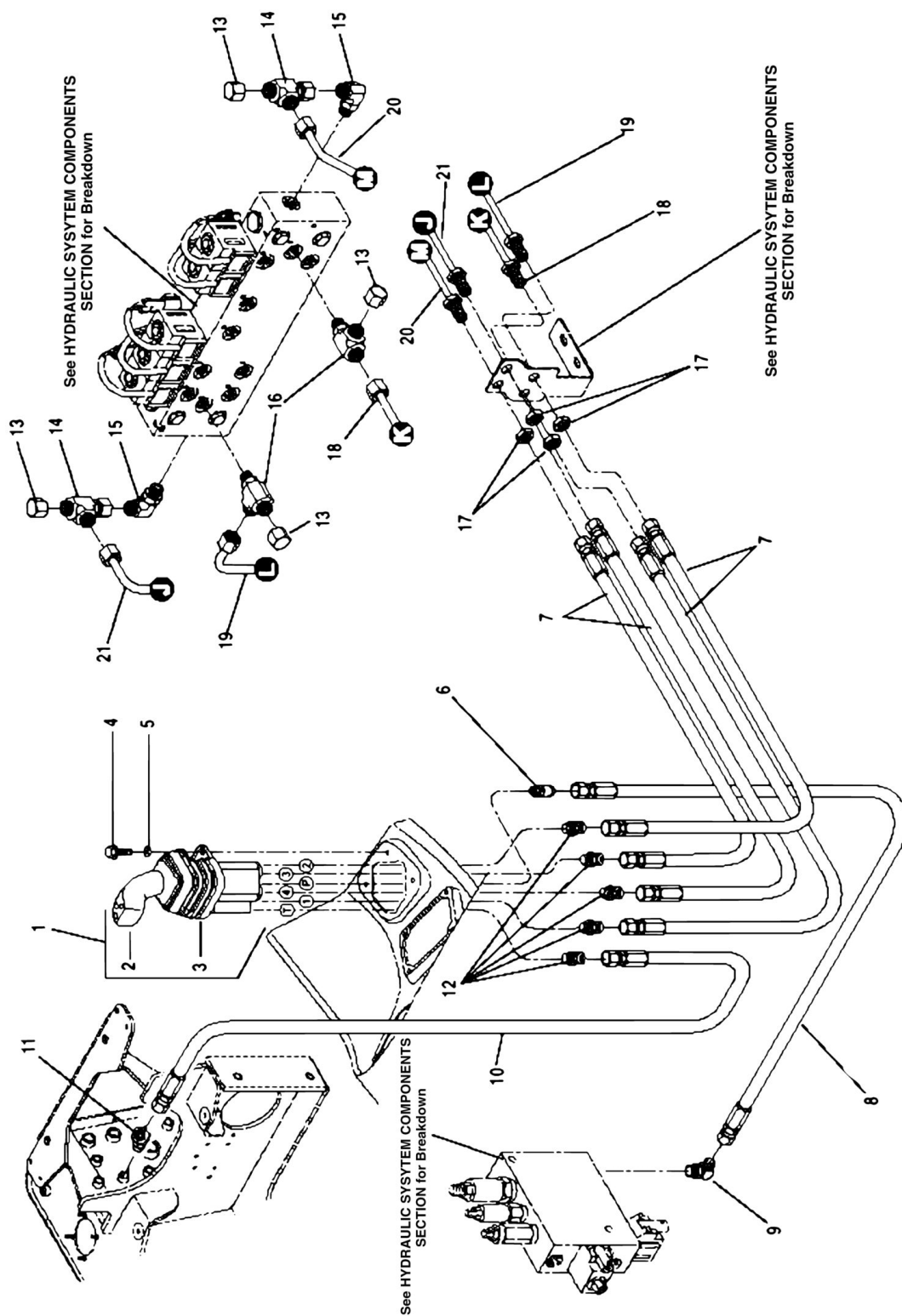
FIGURE 7-6. SERVICE BRAKE PEDAL MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902274	1	Valve, Brake	
2	7136713	1	Pedal, Service Brake	
3	8305012	2	Nut, Hex 1/2-13	
4	8307007	2	Washer, Lock 1/2in	
5	8307206	4	Washer, Flat 1/2in	
6	7129521	4	Pivot, Brake Pedal	
7	5724302	AR	Shim	
8	8303755	4	HHCS, M10-1,5 x 30mm	
9	8307023	4	Washer, Lock M10	
10	8303658	4	HHCS, 1/2-13 x 2in	

SECTION 8 - FRAME CONTROL HYDRAULICS

SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-1. JOYSTICK HYDRAULIC CIRCUIT



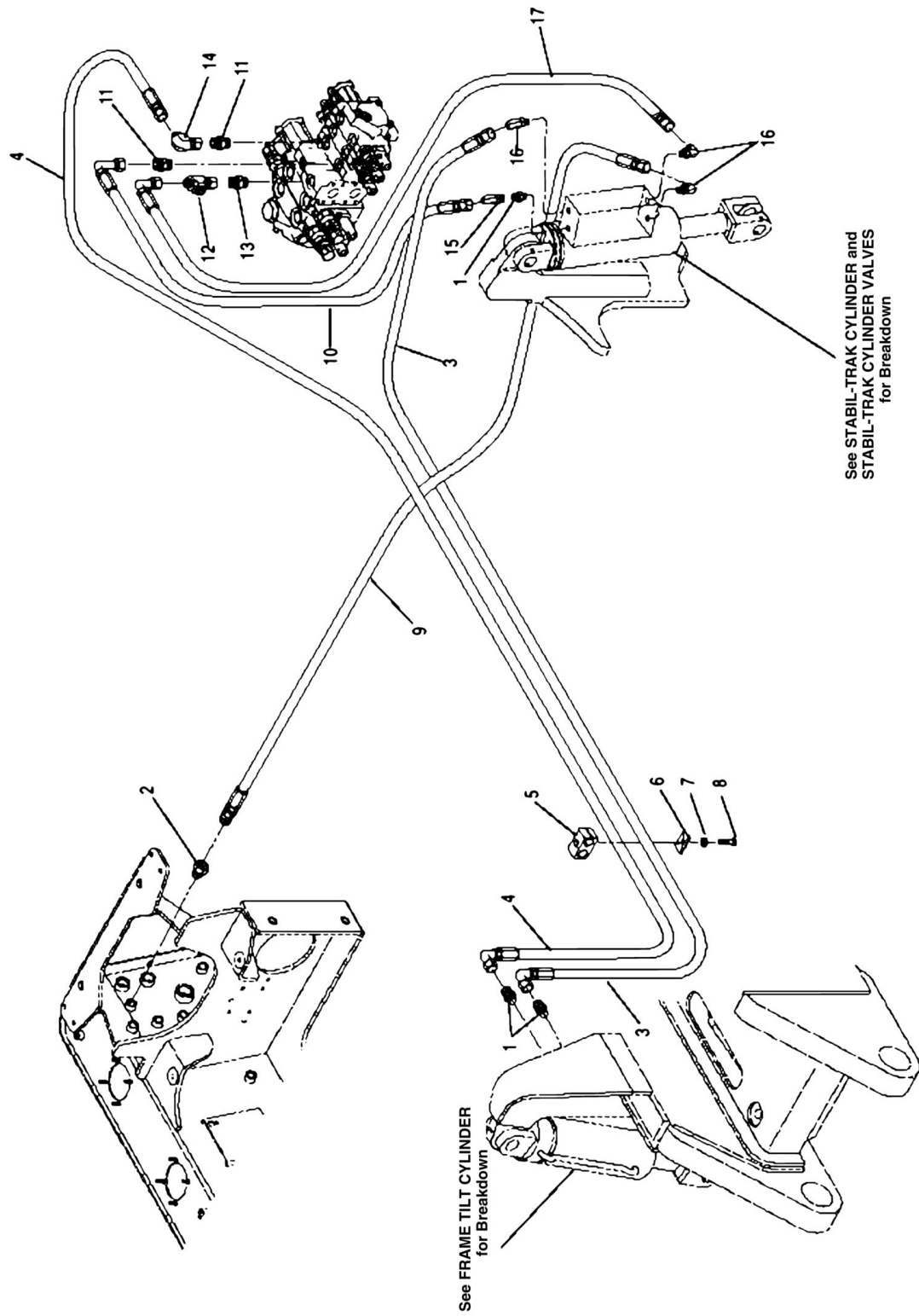
SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-1. JOYSTICK HYDRAULIC CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7133942	1	Valve, Joystick (Includes Items 2 & 3)	
2	7133932	1	Handle Assembly	
3	8035777	1	Boot, Rubber	
4	8303705	3	Screw, Cap Flange Hd 1/4-20 x 3/4in	
5	8307002	3	Washer, Lock 1/4in	
6	8770107	1	Connector, Long, SAE 6 - str thd ORB x OFS	
7	2715312	4	Hose, 0.38 x 120.50in	
8	2716572	1	Hose, 0.38 x 98.13in	
9	8770114	1	Elbow, 90, SAE 8 - str thd ORB x OFS	
10	2716630	1	Hose, 0.38 x 98.00in	
11	8770127	1	Elbow, 45, SAE 8 - str thd ORB x OFS	
12	8770106	5	Connector, SAE 6 - str thd ORB x OFS	
13	8770108	8	Cap, SAE 6 - OFS	
14	8770111	2	Tee, Swivel Run, SAE 6 - OFS	
15	8770068	2	Elbow, 90, SAE 6 - str thd ORB x OFS	
16	8770066	6	Tee, Male Run, SAE 6 - ORFS	
17	8770155	4	Nut, Bulkhead	
18	7138773	1	Tube	
19	7138775	1	Tube	
20	7138774	1	Tube	
21	7138776	1	Tube	

SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-2. FRAME TILT AND STABIL-TRAK CIRCUIT



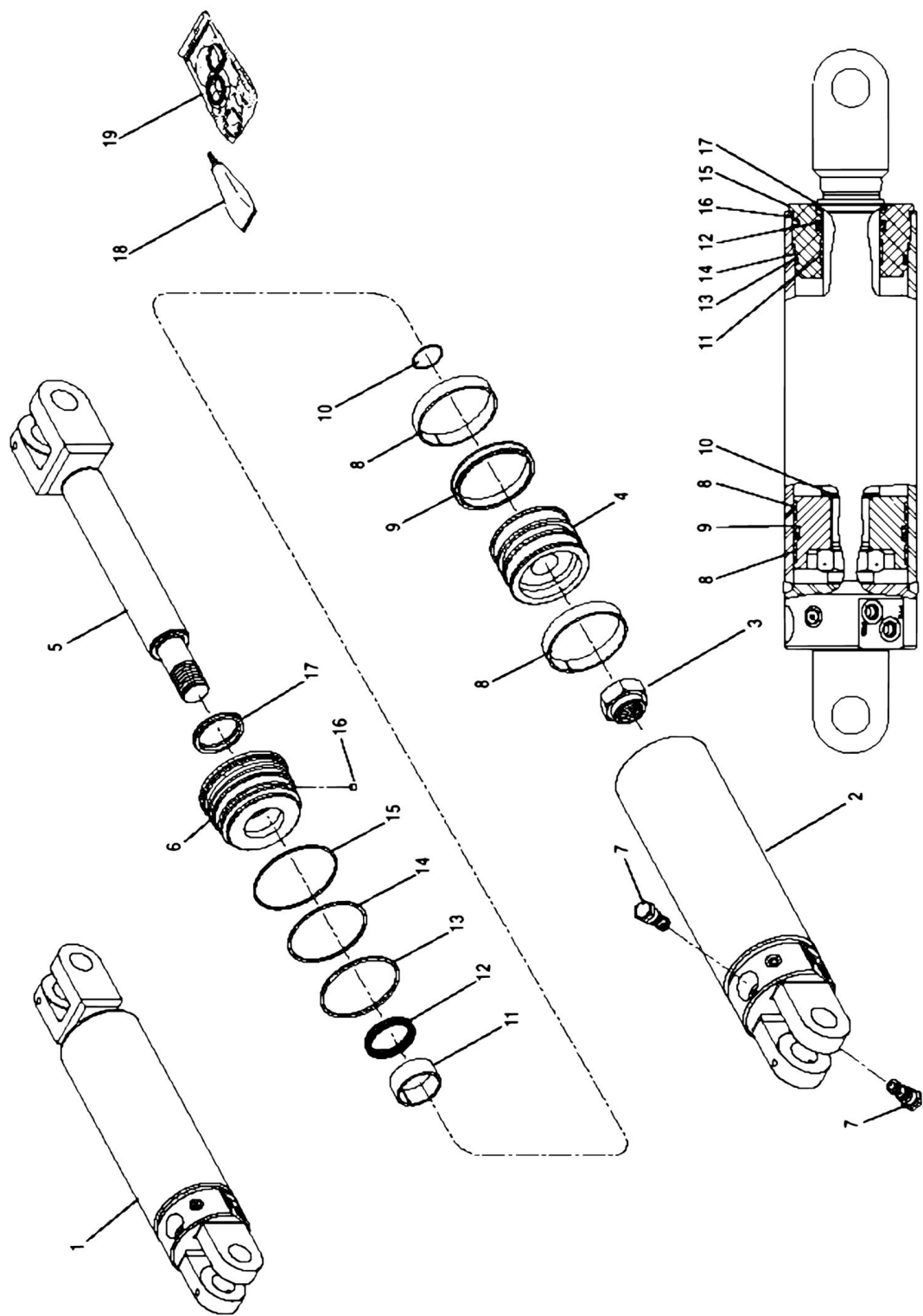
SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-2. FRAME TILT AND STABIL-TRAK CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770106	3	Connector, SAE 6 - str thd ORB x OFS	
2	8770127	1	Elbow, 45, SAE 8 - str thd ORB x OFS	
3	2716636	1	Hose, 0.38 x 207.00in	
4	2716637	1	Hose, 0.38 x 208.00in	
5	8750015	1	Clamp Set, 0.67in Dia	
6	8769123	1	Plate, Cover	
7	8307004	1	Washer, 3/8in	
8	8303759	1	HHCS, 3/8in-18 NC x 1-1/4in	
9	2716640	1	Hose, 0.38 x 121.25in	
10	2716638	1	Hose, 0.38 x 29.88in	
11	8770116	2	Connector, SAE 8 - str thd ORB x OFS	
12	8770124	1	Tee, Male Run, SAE 8	
13	8770186	1	Reducer, SAE 10-8	
14	8770115	1	Elbow, 90, Swivel, SAE 8 - OFS	
15	8770105	1	Elbow, 90, Swivel, SAE 6 - OFS	
16	8770068	3	Elbow, 90, SAE 6 - str thd ORB x OFS	
17	2716639	1	Hose, 0.38 x 29.88in	

SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-3. FRAME TILT CYLINDER



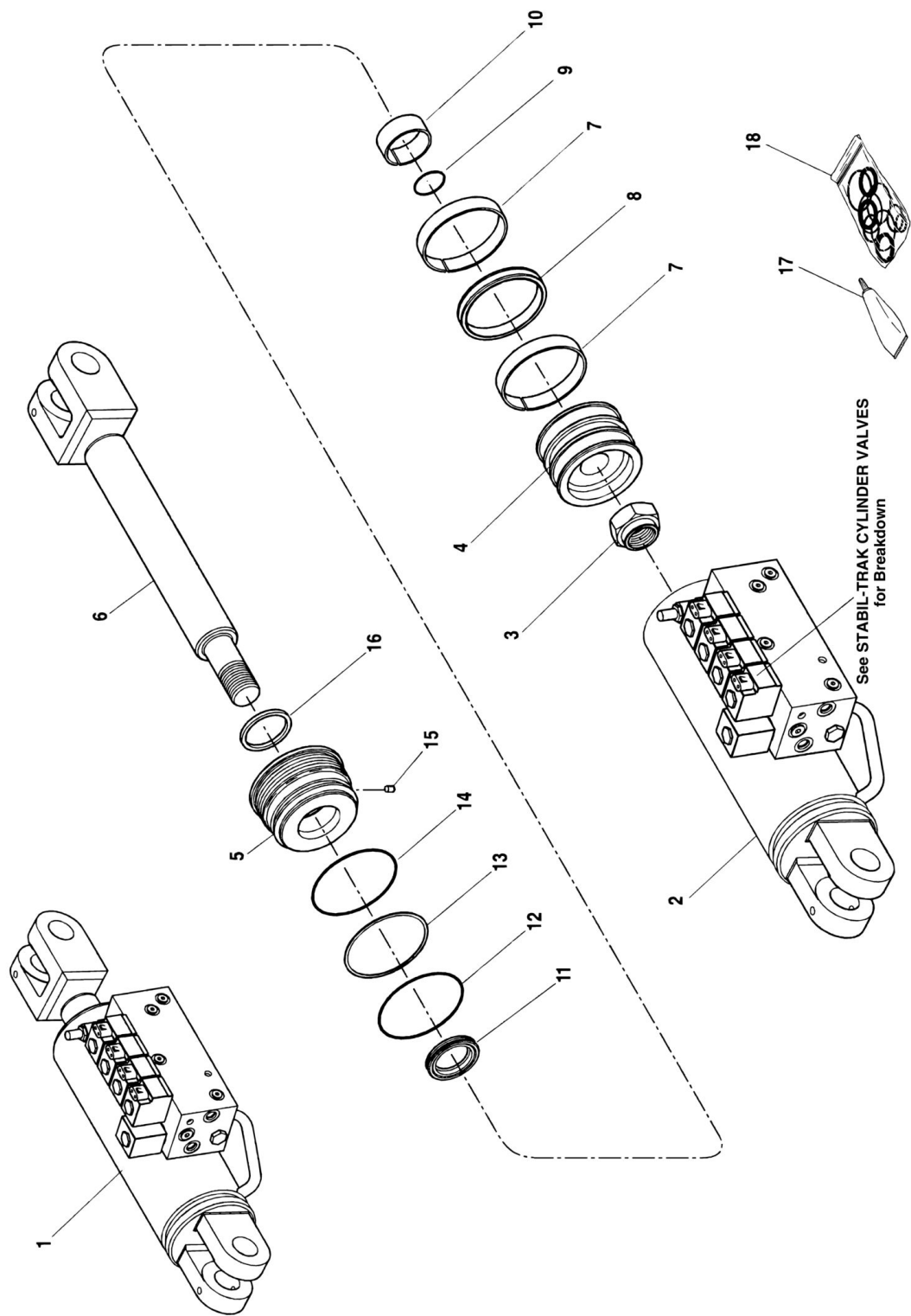
SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-3. FRAME TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716563	1	Cylinder, Frame Tilt (Includes Items 2 thru 17)	
2	N.S.S.	1	Tube, Weldment (Order 2716563)	
3	8035322	1	Nut, Hex Lock 1.50-12 UNF	
4	8035323	1	Piston	
5	8035758	1	Rod, Weldment	
6	8035324	1	Gland, Head	
7	8035757	2	Valve, PO Check Valve - Series 10	
8	See Kits	2	Wearband, Precision	
9	See Kits	1	T-Seal, Type 730 Capped	
10	See Kits	1	O-Ring	
11	See Kits	1	Wearband, Precision	
12	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
13	See Kits	1	O-Ring	
14	See Kits	1	Ring, Back-Up	
15	See Kits	1	O-Ring	
16	See Kits	1	Locking Insert	
17	See Kits	1	Wiper, Hd Rod - Sealed O.D.	
18	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	N.S.S. = Not Sold Separately	
		Ref	KITS	
19	8035326		Seal Kit (Includes Items 8 thru 17)	

SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-4. STABIL-TRAK CYLINDER



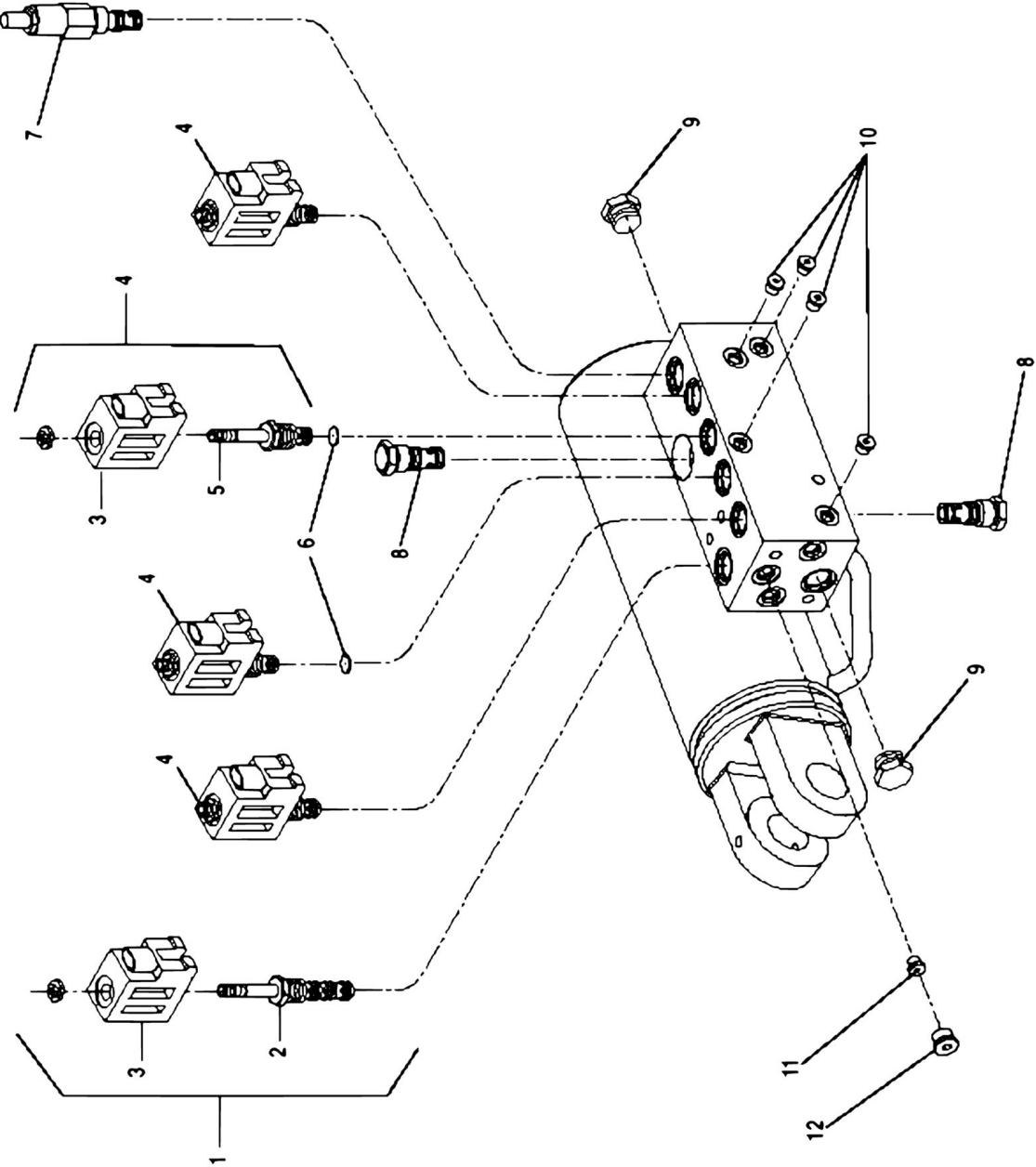
SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-4. STABIL-TRAK CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716564	1	Cylinder, Stabil-Trak (Includes Items 2 thru 16 & Items 1 thru 12 See STABIL-TRACK CYLINDER VALVES for Breakdown)	
2	N.S.S.	1	Tube, Weldment	
3	8035322	1	Nut, Lock 1.50-12 UNF	
4	8035323	1	Piston	
5	8035324	1	Gland, Head	
6	8035783	1	Rod, Weldment	
7	See Kits	2	Wearband, Precision	
8	See Kits	1	T-Seal, Type 730 Capped	
9	See Kits	1	O-Ring	
10	See Kits	1	Wearband, Precision	
11	See Kits	1	Z-Seal, Deep - w/Rod Back-Up	
12	See Kits	1	O-Ring	
13	See Kits	1	Ring, Back-Up	
14	See Kits	1	O-Ring	
15	See Kits	1	Locking Insert	
16	See Kits		Wiper, Hd Rod - Sealed O.D.	
17	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	N.S.S. = Not Sold Separately	
		Ref	KITS	
18	8035326		Seal Kit (Includes Items 8 thru 16)	

SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-5. STABIL-TRAK CYLINDER VALVES



SECTION 8 - FRAME CONTROL HYDRAULICS

FIGURE 8-5. STABIL-TRAK CYLINDER VALVES

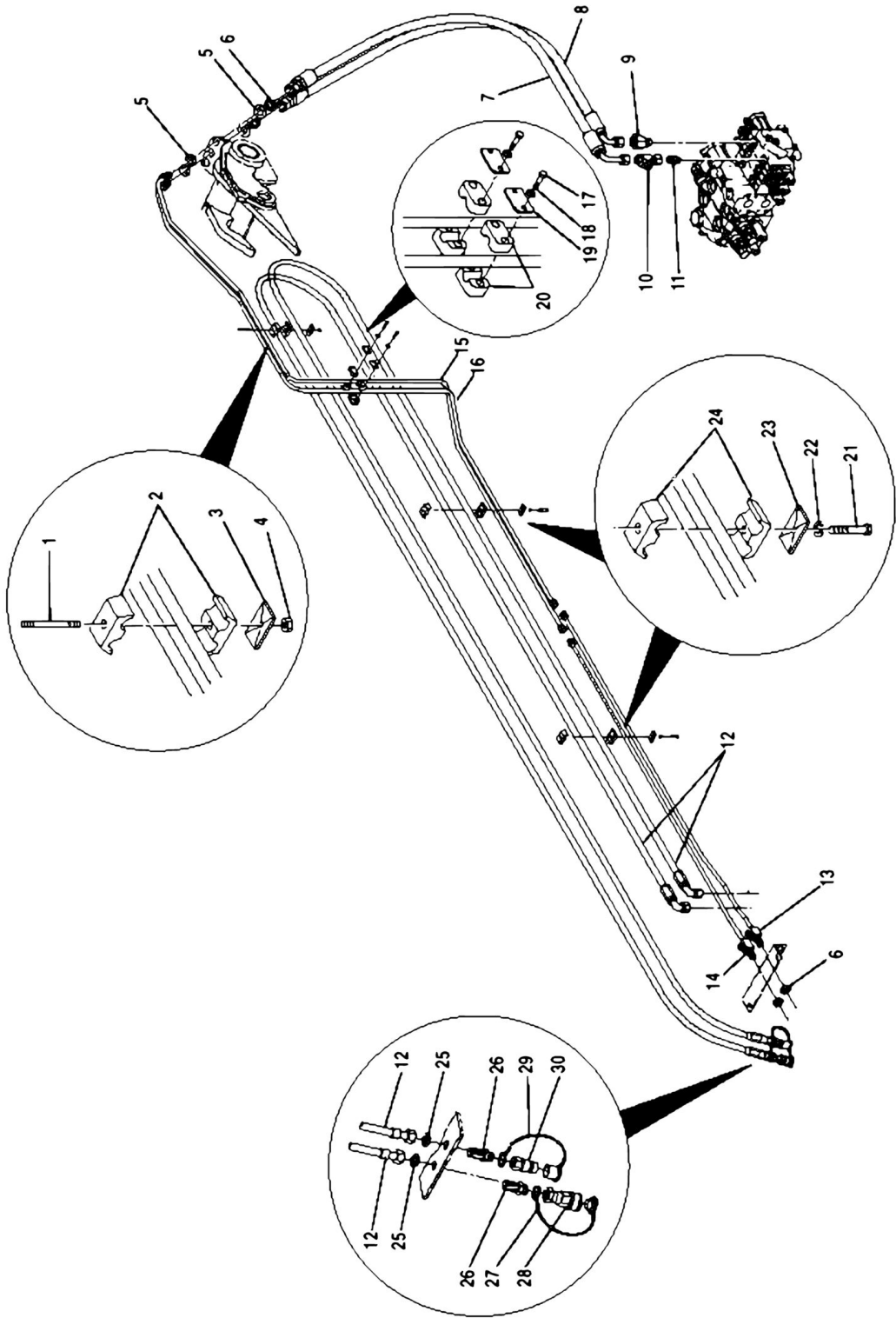
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8036020	1	Solenoid Valve Assembly - 4 Way, 12V (Includes Items 2 & 3)	
2	8036290	1	Cartridge, Solenoid Valve	
3	8036288	5	Coil, Solenoid	
4	8036019	4	Solenoid Valve Assembly - 2 Way, NC, 12V (Includes Items 3 & 5)	
5	8036289	4	Cartridge, Solenoid Valve	
6	8035781	2	Disk, Conical Orifice .060in Dia	
7	8035282	1	Valve, Pressure Reducing (100)	
8	8035281	2	Valve, PO Check - Series 10	
9	8760420	2	Plug, Hex Hd, SAE 10-male str thd o-ring	
10	8035785	4	Plug, Hex - SAE #4 Steel Hol	
11	8035782	1	Plug, Orifice .030in Dia	
12	8035784	1	Plug, Hex - SAE #6 Steel Hol	

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-1. AUXILIARY HYDRAULIC CIRCUIT LOW PIVOT (OPTIONAL)



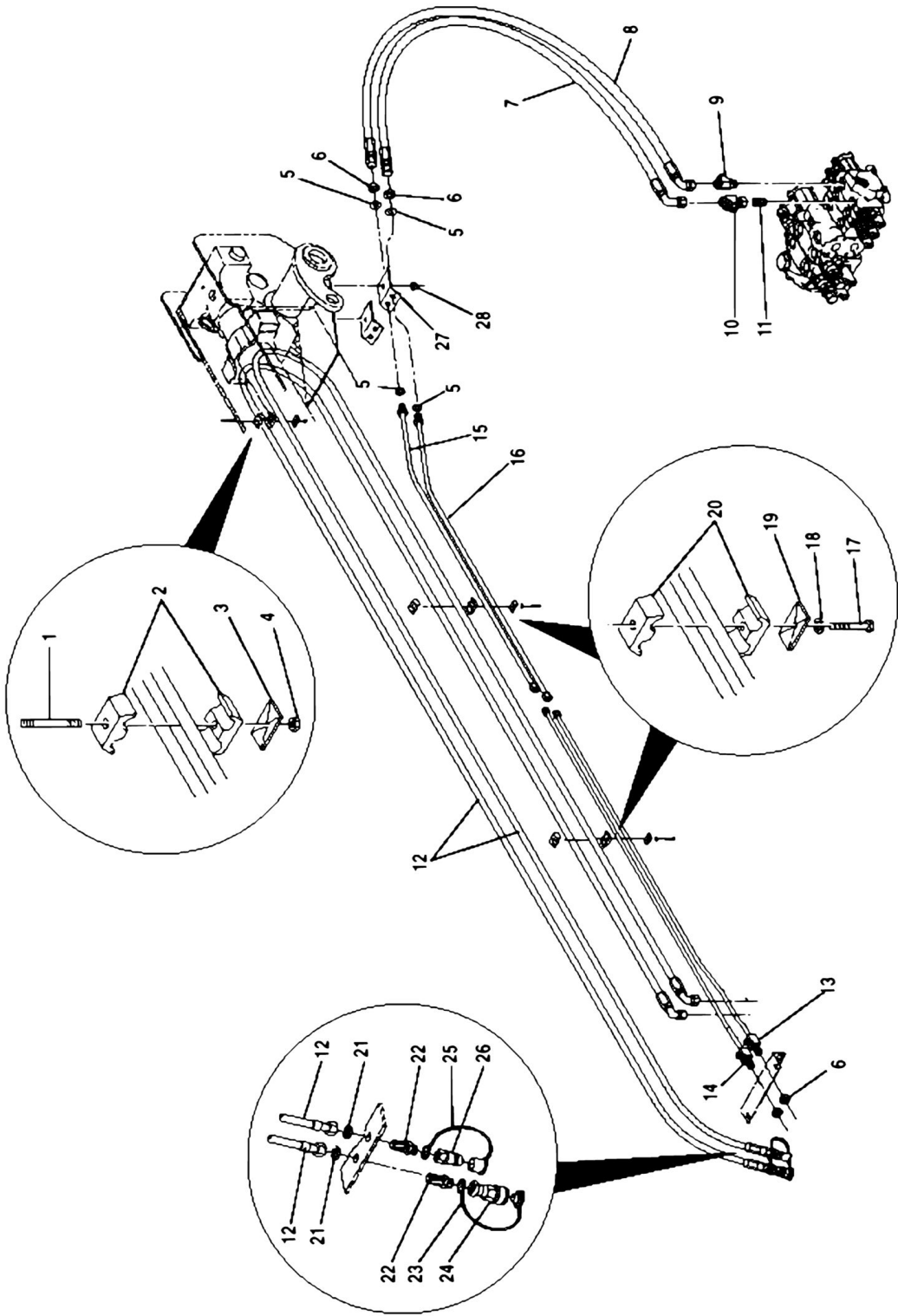
SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-1. AUXILIARY HYDRAULIC CIRCUIT LOW PIVOT (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8306407	1	Stud, 5/16-18 x 2.75in	
2	8750027	1	Clamp Set	
3	8769128	1	Plate, Cover	
4	8310453	1	Nut, Hex 5/16-18 NC	
5	5724302	4	Shim	
6	8770075	4	Nut, Bulkhead	
7	2716652	1	Hose, 0.50 x 46.25in	
8	2716653	1	Hose, 0.50 x 47.25in	
9	8770124	1	Tee, Male Run, SAE 8 - ORFS	
10	8770125	1	Tee, Swivel Run, SAE 8 - OFS	
11	8770116	1	Connector, SAE 8 - str thd ORB x OFS	
12	2716619	2	Hose, 0.50 x 42.2in	
13	7136083	1	Tube Assembly	
14	7136073	1	Tube Assembly	
15	7136113	1	Tube Assembly	
16	7136103	1	Tube Assembly	
17	8303743	4	HHCS, 1/4in-20 NC x 1 1/2in	
18	8307002	4	Washer, Lock	
19	8769153	2	Plate, Cover	
20	8769154	2	Clamp Set	
21	8303715	2	HHCS, 5/16-18 NC x 1 1/2in	
22	8307004	2	Washer, Lock	
23	8769123	2	Plate, Cover	
24	8769122	2	Clamp Set	
25	8770129	2	Nut, Bulkhead, SAE 8 - OFS	
26	8770136	2	Connector, Bulkhead, SAE 8 - str thd	
27	8430005	1	Quick Disconnect, Female, SAE 8-8ORB	
28	8420055	1	Plug, Dust #8	
29	8420053	1	Cap, Dust #8	
30	8430006	1	Quick Disconnect, Male, SAE 8-8ORB	

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-2. AUXILIARY HYDRAULIC CIRCUIT HIGH PIVOT (OPTIONAL)



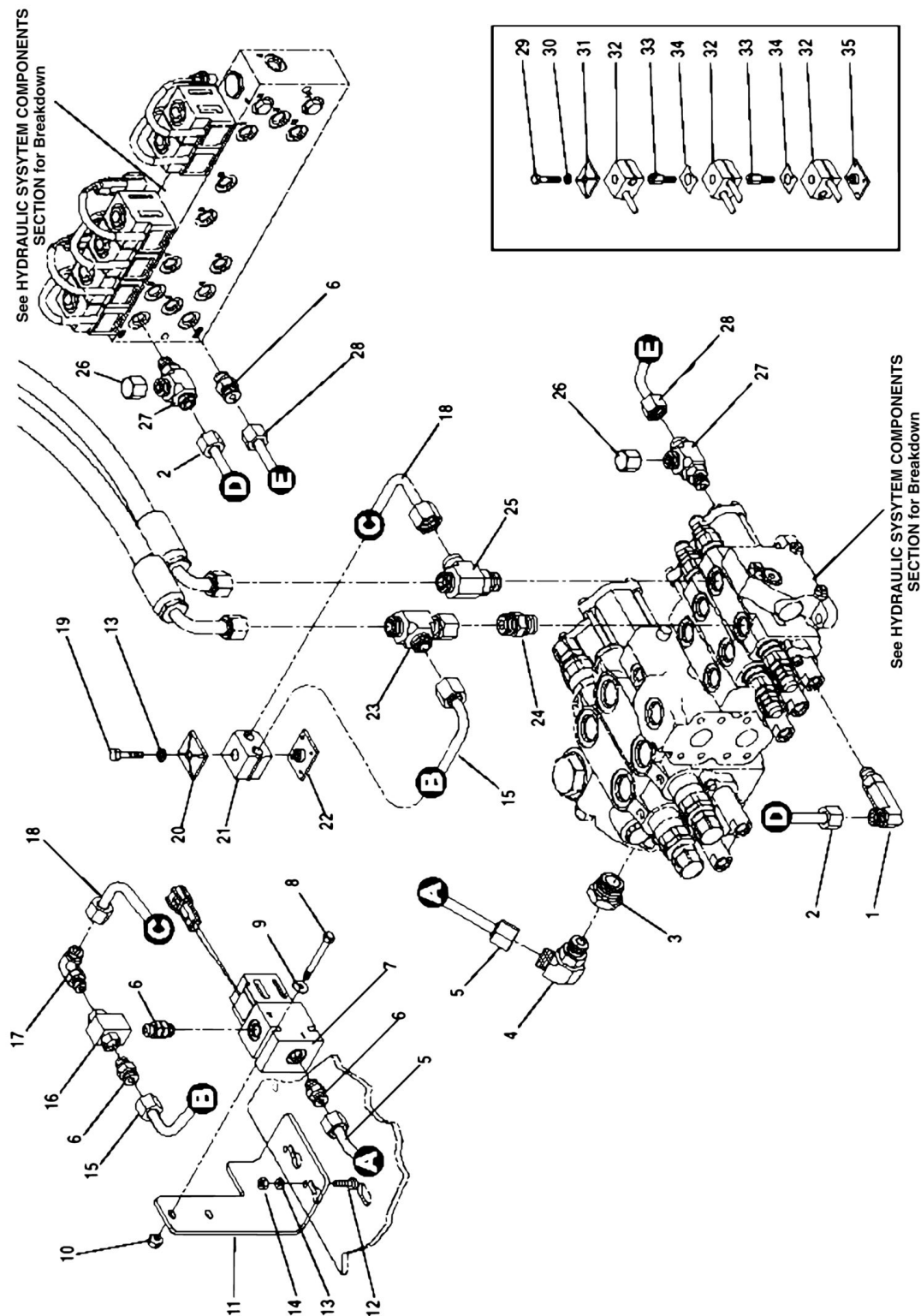
SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-2. AUXILIARY HYDRAULIC CIRCUIT HIGH PIVOT (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8306407	1	Stud, 5/16-18 x 2.75in	
2	8750027	1	Clamp Set	
3	8769128	1	Plate, Cover	
4	8310453	1	Nut, Hex 5/16-18 NC	
5	5724302	4	Shim	
6	8770075	4	Nut, Bulkhead	
7	2716652	1	Hose, 0.50 x 46.25in	
8	2716653	1	Hose, 0.50 x 47.25in	
9	8770124	1	Tee, Male Run, SAE 8 - ORFS	
10	8770125	1	Tee, Swivel Run, SAE 8 - OFS	
11	8770116	1	Connector, SAE 8 - str thd ORB x OFS	
12	2716752	2	Hose, 0.50 x 42.2in	
13	7139228	1	Tube Assembly	
14	7139229	1	Tube Assembly	
15	7139279	1	Tube Assembly	
16	7139278	1	Tube Assembly	
17	8303715	2	HHCS, 5/16-18 NC x 1 1/2in	
18	8307004	2	Washer, Lock	
19	8769123	2	Plate, Cover	
20	8769122	2	Clamp Set	
21	8770129	2	Nut, Bulkhead, SAE 8 - OFS	
22	8770136	2	Connector, Bulkhead, SAE 8 - str thd	
23	8430005	1	Quick Disconnect, Female, SAE 8-8ORB	
24	8420055	1	Plug, Dust #8	
25	8420053	1	Cap, Dust #8	
26	8430006	1	Quick Disconnect, Male, SAE 8-8ORB	
27	7139443	1	Bracket, Bulkhead	
28	8305645	1	Nut, Hex Lock Elastic 3/8-16	

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-3. AUX HYDRAULICS - VALVES, MANIFOLD AND TUBING



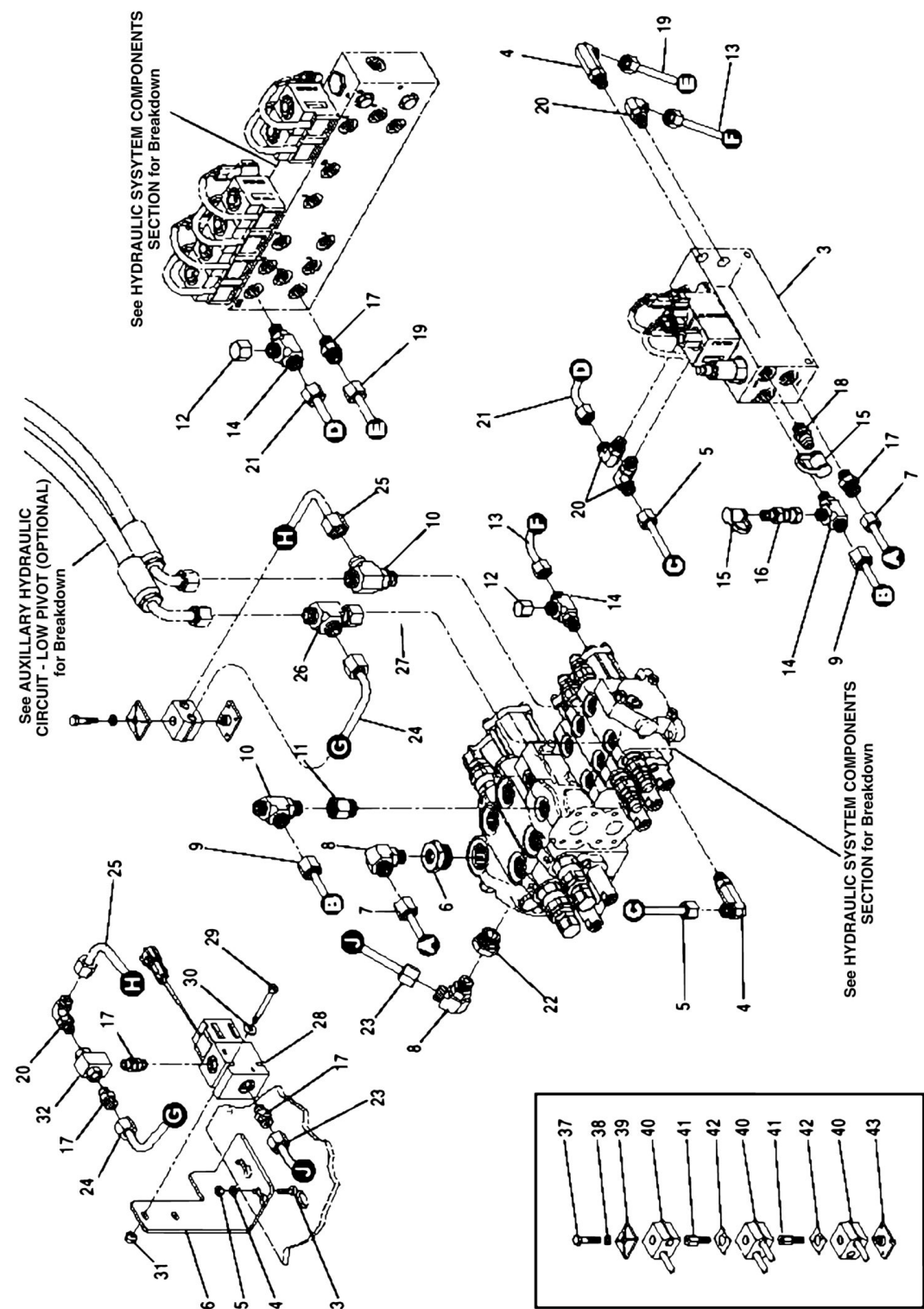
SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-3. AUX HYDRAULICS - VALVES, MANIFOLD AND TUBING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8770154	1	Elbow, Long, 90, SAE 4 - str thd ORB x OFS	
2	7138770	1	Tube	
3	8760535	1	Reducer, SAE 12-8 - male str	
4	8770114	1	Elbow, 90, SAE 8 - str thd ORB x OFS	
5	7138779	1	Tube	
6	8770106	4	Connector, SAE 6 - str thd ORB x OFS	
7	8902191	1	Valve, Solenoid Dump	
8	8303703	4	HHCS, 0.25-20 NC x 2.50in	
9	8307202	2	Washer, Plain 0.25in	
10	8310382	2	Nut, Flange	
11	7136892	1	Bracket, Dump Valve	
12	8310484	2	Bolt, Carriage, 1/4-20 NC x 1.00in	
13	8307002	2	Washer, Lock 0.25in	
14	8305004	2	Nut, Hex 0.25-20 NC	
15	7139038	1	Tube	
16	8902175	1	Valve, Shuttle	
17	8770068	1	Elbow, 90, SAE 6 - str thd ORB x OFS	
18	7138778	1	Tube	
19	8303743	1	HHCS, 0.25-20 NC x 1.50in	
20	8750020	1	Plate, Cover	
21	8750018	1	Clamp, Set	
22	8750019	1	Plate, Welding	
23	8770125	1	Tee, Swivel Run, SAE 8 - OFS	
24	8770116	1	Connector, SAE 8 - str thd ORB x OFS	
25	8770124	1	Tee, Male Run, SAE 8 - ORFS	
26	8770108	3	Cap, SAE 6 - OFS	
27	8770066	2	Tee, Male Run, SAE 6 - ORFS	
28	7138766	1	Tube	
29	8303743	1	HHCS, 0.250-20 NC x 1.50in	
30	8307002	1	Washer, Lock 0.25in	
31	8750020	1	Plate, Cover	
32	8750018	3	Clamp Set	
33	8750021	2	Bolt, Stacking	
34	8750017	2	Plate, Locking	
35	8750019	1	Plate, Welding	

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-4. AUX DETENT HYDRAULICS - VALVES, MANIFOLD AND TUBING



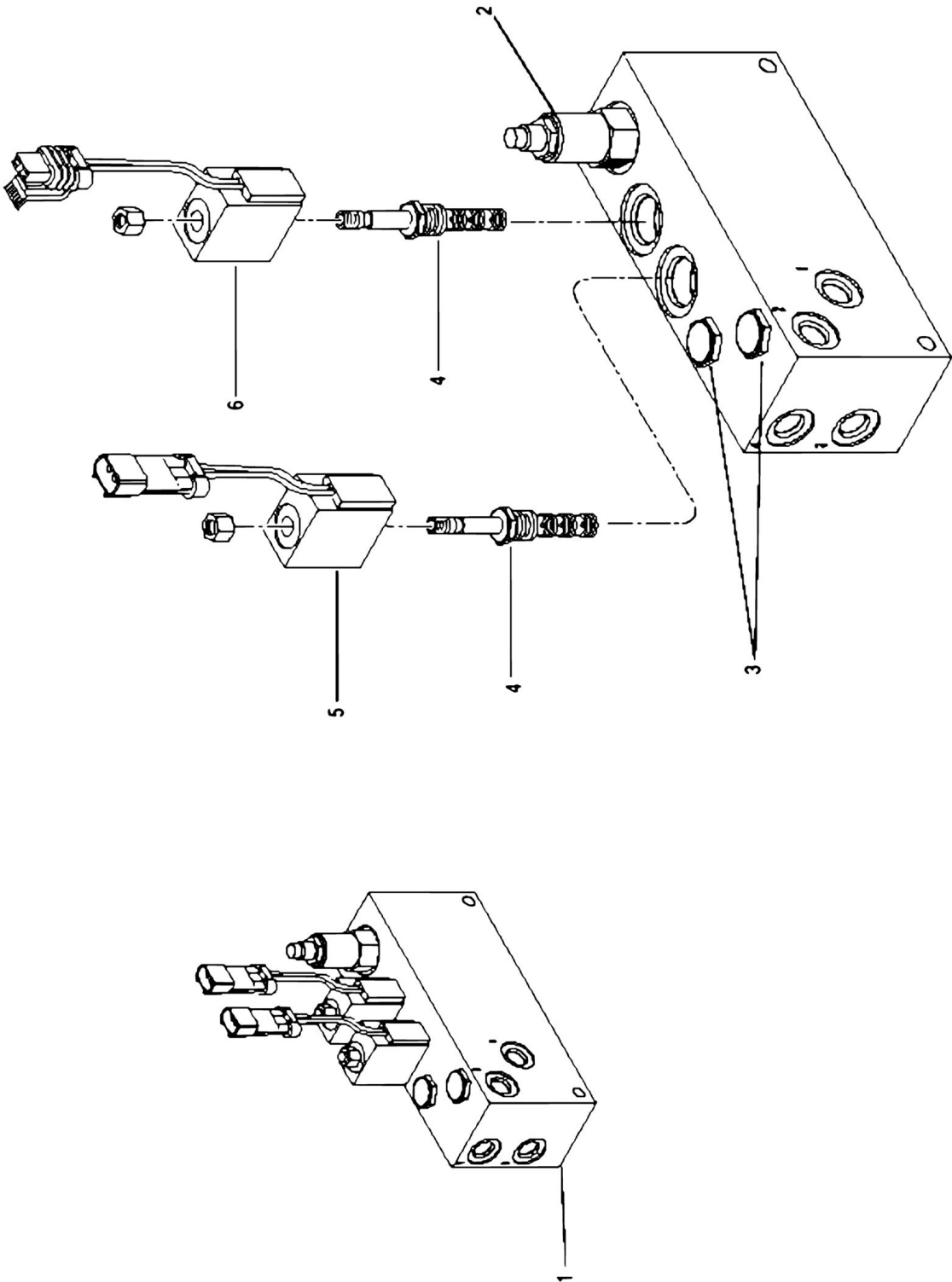
SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-4. AUX DETENT HYDRAULICS - VALVES, MANIFOLD AND TUBING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902183	1	Valve, Main Control (See HYDRULIC SYSTEM COMPONENTS SECTION for Breakdown)	
2	8902182	1	Manifold, Pilot Select	
3	8902180	1	Valve, Selector Aux Hydraulics	
4	8770154	2	Elbow, Long, 90, SAE 4 - str thd ORB x OFS	
5	7138780	1	Tube	
6	8760545	1	Reducer, SAE 16-8	
7	7139040	1	Tube	
8	8770114	1	Elbow, 90, SAE 8 - str thd ORB x OFS	
9	7139039	1	Tube	
10	8770124	1	Tee, Male Run, SAE 8	
11	8770186	1	Reducer, SAE 10-8	
12	8770108	1	Cap, SAE 6 - OFS	
13	7138782	1	Tube	
14	8770066	1	Tee, Male Run, SAE 6	
15	8430032	2	Plug, Dust	
16	8430081	1	Nipple, Diagnostic	
17	8770106	2	Connector, SAE 6 - str thd ORB x OFS	
18	8430043	1	Nipple, Diagnostic	
19	7138783	1	Tube	
20	8770068	4	Elbow, 90, SAE 6 - str thd ORB x OFS	
21	7138781	1	Tube	
22	8760535	1	Reducer, SAE 12-8	
23	7138779	1	Tube	
24	7138038	1	Tube	
25	7138778	1	Tube	
26	8770125	1	Tee, Swivel Run, SAE 8 - OFS	
27	8770116	1	Connector, SAE 8 - str thd ORB x OFS	
28	8902191	1	Valve, Solenoid Dump	
29	8303703	2	HHCS, 0.25-20 NC x 2.50in	
30	8307202	2	Washer, Plain 0.25in	
31	8310382	2	Nut, Flange	
32	8902175	1	Valve, Shuttle	
33	8310484	2	Bolt, Carriage, 1/4-20 NC x 1.00in	
34	8307002	2	Washer, Lock 0.25in	
35	8305004	2	Nut, Hex 0.25-20 NC	
36	7136892	1	Bracket, Dump Valve	
37	8303743	1	HHCS, 0.250-20 NC x 1.50in	
38	8307002	1	Washer, Lock 0.25in	
39	8750020	1	Plate, Cover	
40	8750018	3	Clamp Set	
41	8750021	2	Bolt, Stacking	
42	8750017	2	Plate, Locking	
43	8750019	1	Plate, Welding	

SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

FIGURE 9-5. AUXILIARY DETENT SELECTOR VALVE



SECTION 9 - AUXILIARY ATTACHMENT HYDRAULIC CIRCUIT (OPTIONAL)

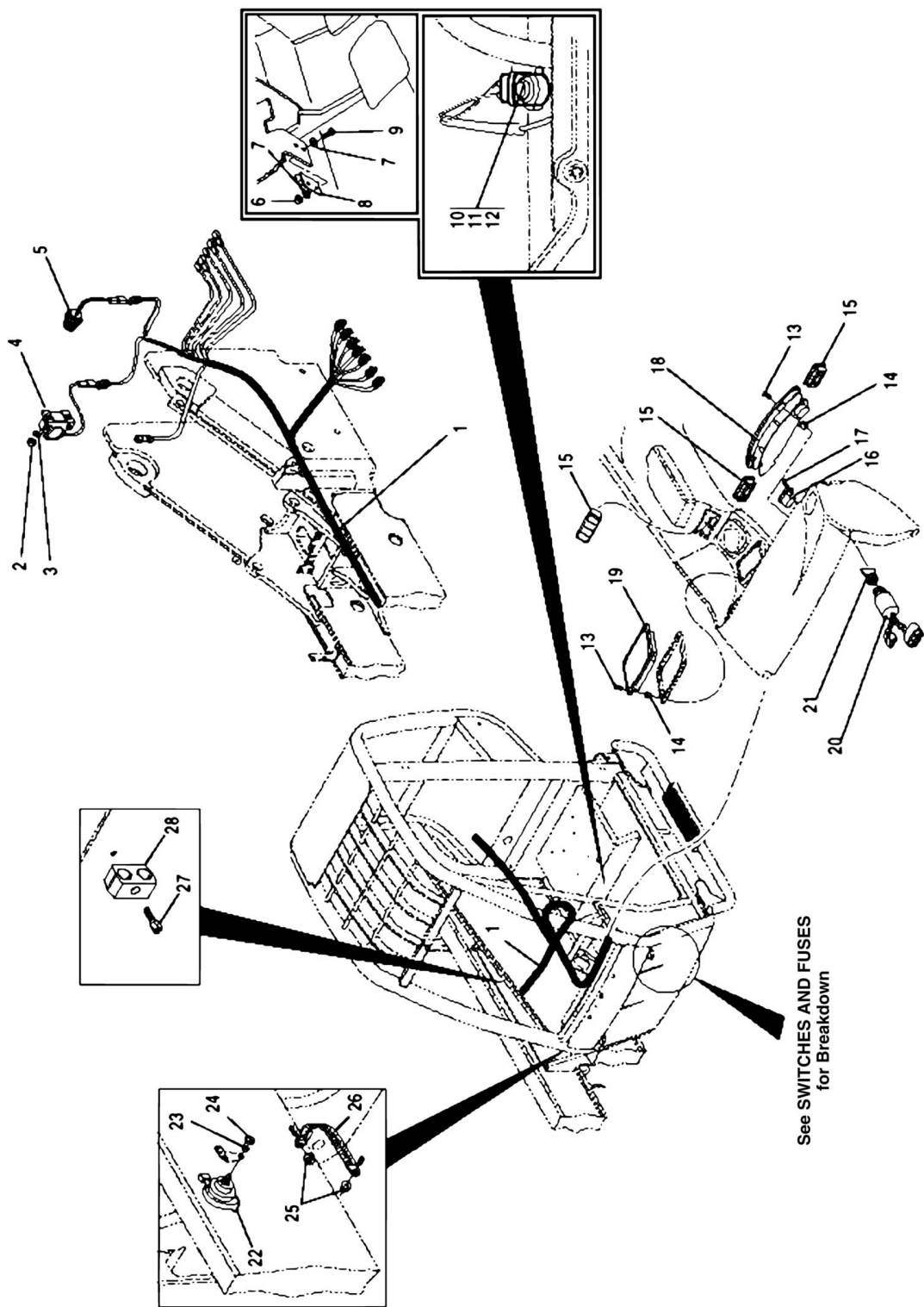
FIGURE 9-5. AUXILIARY DETENT SELECTOR VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902180	1	Valve, Selector (Auxiliary Detent Hydraulics Only) (Includes Items 2 thru 6)	
2	8035859	1	Cartridge, Pressure Reducing [550 ± 100 psi (38 ± 7 bar) at 0 G.P.M. (0 liter/sec) (Auxiliary Detent Hydraulics Only)	
3	8035858	2	Valve, Shuttle (Auxiliary Detent Hydraulics Only)	
4	8035860	2	Cartridge, Solenoid Valve (Auxiliary Detent Hydraulics Only)	
5	8902694	1	Coil, Solenoid Valve, Female Connector (Auxiliary Detent Hydraulics Only)	
6	8902693	1	Coil, Solenoid Valve, Male Connector (Auxiliary Detent Hydraulics Only)	

SECTION 10 - ELECTRICAL

SECTION 10 - ELECTRICAL

FIGURE 10-1. OPERATORS CAB WIRING HARNESS



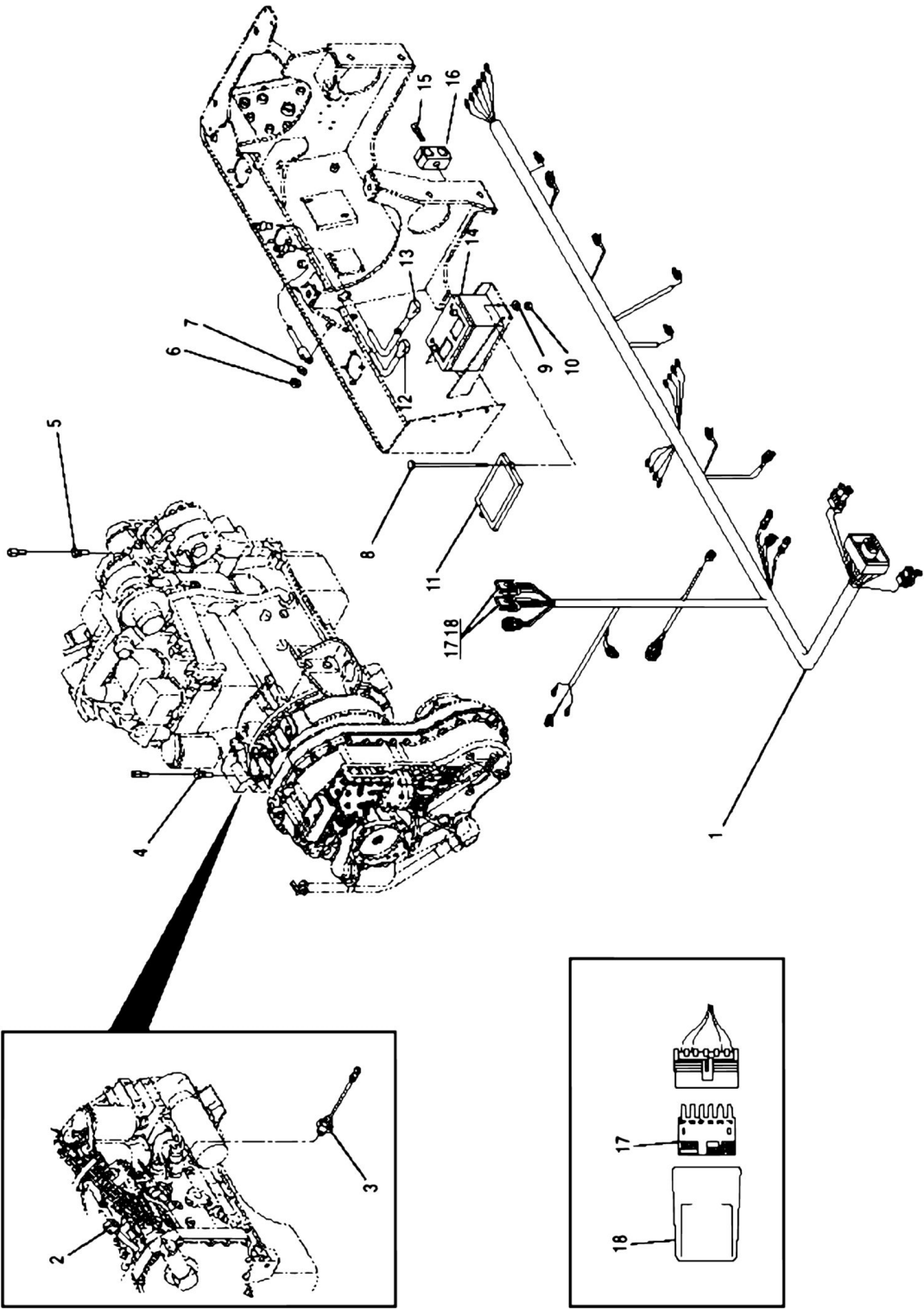
SECTION 10 - ELECTRICAL

FIGURE 10-1. OPERATORS CAB WIRING HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7135034	1	Harness, Cab	
2	8305624	3	Nut, Hex Lock Elastic 1/4-20	
3	8307109	3	Washer, Flat 1/4in	
4	8270621	1	Alarm, Back-up	
5	7130682	1	Sensor, Boom	
6	8310085	2	Nut, Hex Lock Elastic #10-24	
7	8307111	4	Washer, Flat #10 Narrow	
8	8223231	1	Switch, Magnetic Proximity	
9	8310016	2	Screw, Slotted Pan Hd #10-24 x 1in	
10	8584001	1	Tie, Plastic	
11	8223053	1	Switch, Maintenance Reset	
12	8584018	1	Mount, Cable Tie	
13	8310358	8	BHCS, #10-32 x 3/4in	
14	8580421	8	Nut, Well #10-32	
15	8223046	3	Bezel, Switch	
16	8467017	1	Hourmeter	
17	8310366	2	Screw, Wood, Round Hd #6 x 1/2in	
18	8220344	1	Dash, Front Console	
19	8220346	1	Panel, Side Console (Logic Board)	
20	8223453	1	Switch, Ignition (Includes Item 21)	
21	8035807	1	Key, Ignition - Set of 2	
22	8270620	1	Horn, Signal	
23	8307024	1	Washer, Lock M6	
24	8305439	1	Nut, Hex Jam M6-1	
25	8305645	2	Nut, Hex Lock, 3/8-16 NC	
26	6611172	1	Ground Cable, Cab to Frame	
27	8750026	1	Bolt, Stacking	
28	8750022	1	Clamp Set	

SECTION 10 - ELECTRICAL

FIGURE 10-2. ENGINE WIRING HARNESS



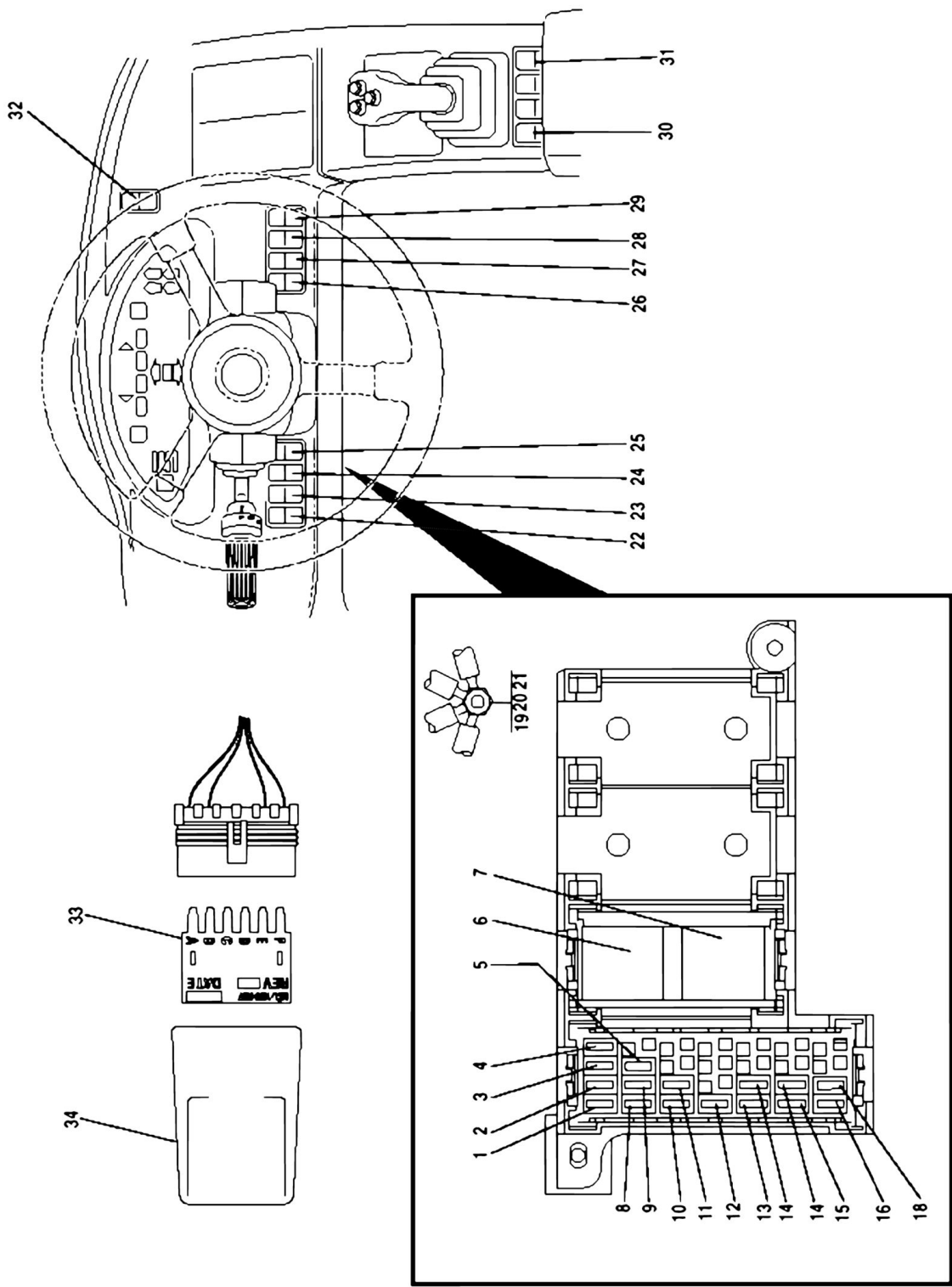
SECTION 10 - ELECTRICAL

FIGURE 10-2. ENGINE WIRING HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7135044	1	Harness, Engine	
2	8035276	1	Solenoid, Fuel Shut Off	
3	8223530	1	Switch, Engine Oil Pressure	
4	8223232	1	Switch, Transmission Temperature - 250 F (121 C)	
5	8223229	1	Switch, Engine Water Temperature - 210 F (99 C)	
6	8305603	1	Nut, Hex Lock 3/8-16	
7	8307204	1	Washer, Flat 3/8in	
8	8310344	2	HHCS, 3/8-16 x 10in	
9	8307110	2	Washer, Plain, 3/4in	
10	8305645	2	Nut, Hex Lock Elastic 3/8-16	
11	7138830	1	Battery Hold Down	
12	8270139	1	Cable, Battery - Positive w/Protective Cover	
13	8270138	1	Cable, Battery - Negative w/Protective Cover	
14	8270134	1	Battery, 12 Volt	
15	8750026	1	Bolt, Stacking	
16	8750022	1	Clamp Set	
17	8220356	1	Board, Diode, Rear Steer	
18	8220357	1	Cap, Clear Ves-Pac	

SECTION 10 - ELECTRICAL

FIGURE 10-3. SWITCHES AND FUSES



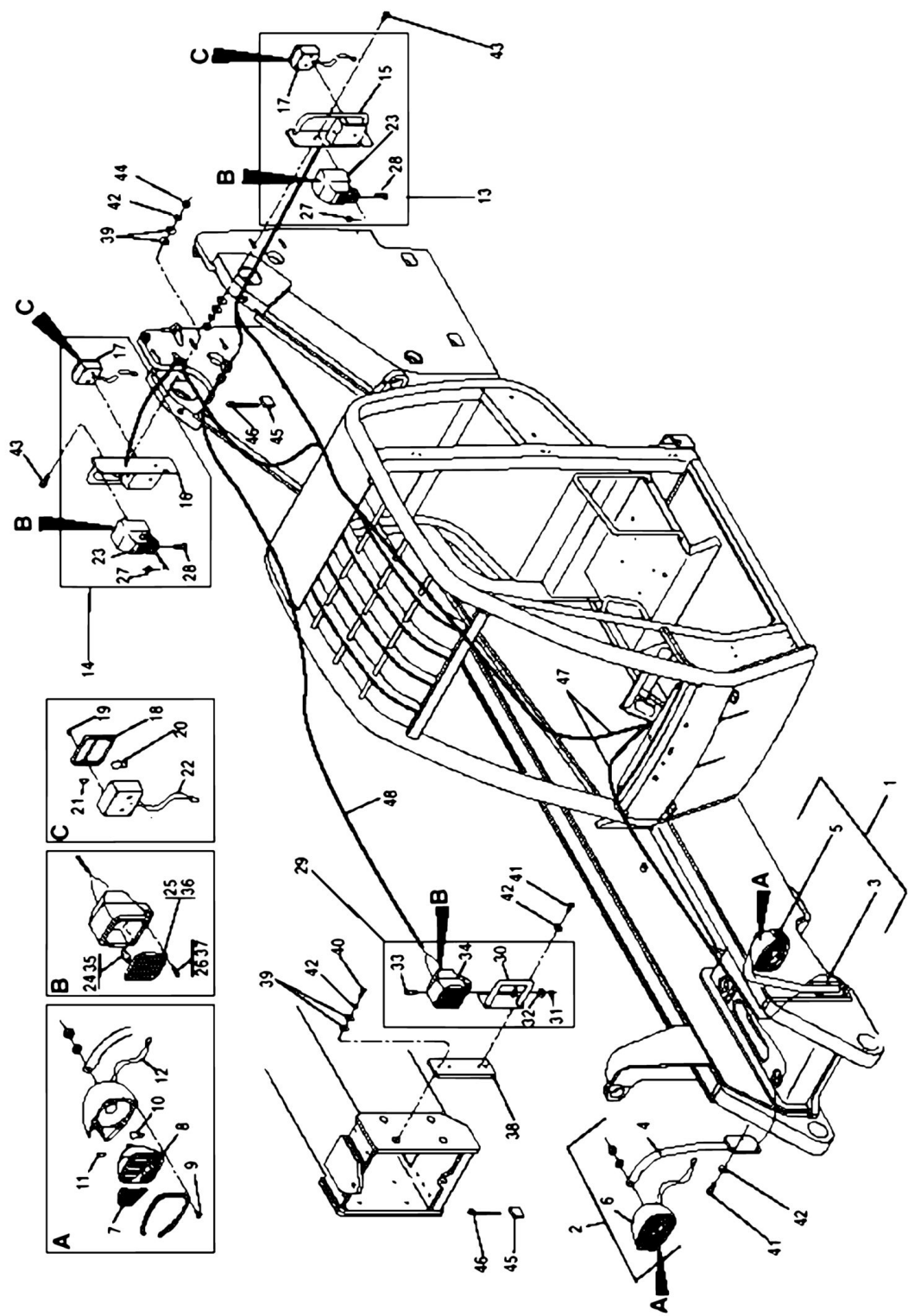
SECTION 10 - ELECTRICAL

FIGURE 10-3. SWITCHES AND FUSES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8229242	1	Fuse, 5 Amp, Transmission Direction (Tan)	
2	8229252	1	Fuse, 1 Amp, Hour Meter (Black)	
3	8229247	1	Fuse, 25 Amp, Ignition (White)	
4	8229245	1	Fuse, 30 Amp, Main (Green)	
5	8229242	1	Fuse, 5 Amp, Rear Steer (Tan)	
6	8225119	1	Relay, Sealed 12V - 40A, Rear Steer	
7	8225119	1	Relay, Sealed 12V - 40A, Neutral Engage	
8	8229242	1	Fuse, 5 Amp, Transmission Gear (Tan)	
9	8229244	1	Fuse, 15 Amp, Dash Panel (Blue)	
10	8229252	1	Fuse, 1 Amp, Park Brake (Black)	
11	8229242	1	Fuse, 5 Amp, Joystick Panel (Tan)	
12	8229252	1	Fuse, 1 Amp, Service Brake (Black)	
13	8229242	1	Fuse, 5 Amp, Steer Mode	
14	8229242	2	Fuse, 5 Amp, Auxiliary Detent	
15	8229243	1	Fuse, 7. 5 Amp, Horn (Tan)	
16	8229252	1	Fuse, 1 Amp, Switch Lamps (Black)	
17	8229242	1	Fuse, 5 Amp, FSOS (Tan)	
18	8229243	1	Fuse, 7.5 Amp, Rotating Beacon (Opt) (Brown)	
19	8307002	1	Washer, Lock 1/4in	
20	8303540	1	HHCS, 1/4-20 x 1.00in	
21	8305624	1	Nut, Hex Lock, 1/4in-20	
22	8223054	1	Switch, Park Brake	
23	8223039	1	Switch, Auxiliary Detent (Optional)	
24	8223050	1	Switch, Auxiliary, Dump Valve	
25	8223047	1	Switch, Rear Steer Mode	
26	8223059	1	Switch, Worklights	
27	8223061	1	Switch, Windshield Wiper/Washer	
28	8223040	1	Switch, Roof Wiper	
29	8223048	1	Switch, Attachment Tilt Mode	
30	8223038	1	Switch, Rotating Beacon (Optional)	
31	8223051	1	Switch, Steer Select	
32	8223060	1	Switch, Hazard Lights	
33	8220356	1	Board, Diode, Rear Steer	
34	8220357	1	Cap, Clear Ves-Pac	

SECTION 10 - ELECTRICAL

FIGURE 10-4. ROADLIGHTS ASSEMBLY



SECTION 10 - ELECTRICAL

FIGURE 10-4. ROADLIGHTS ASSEMBY

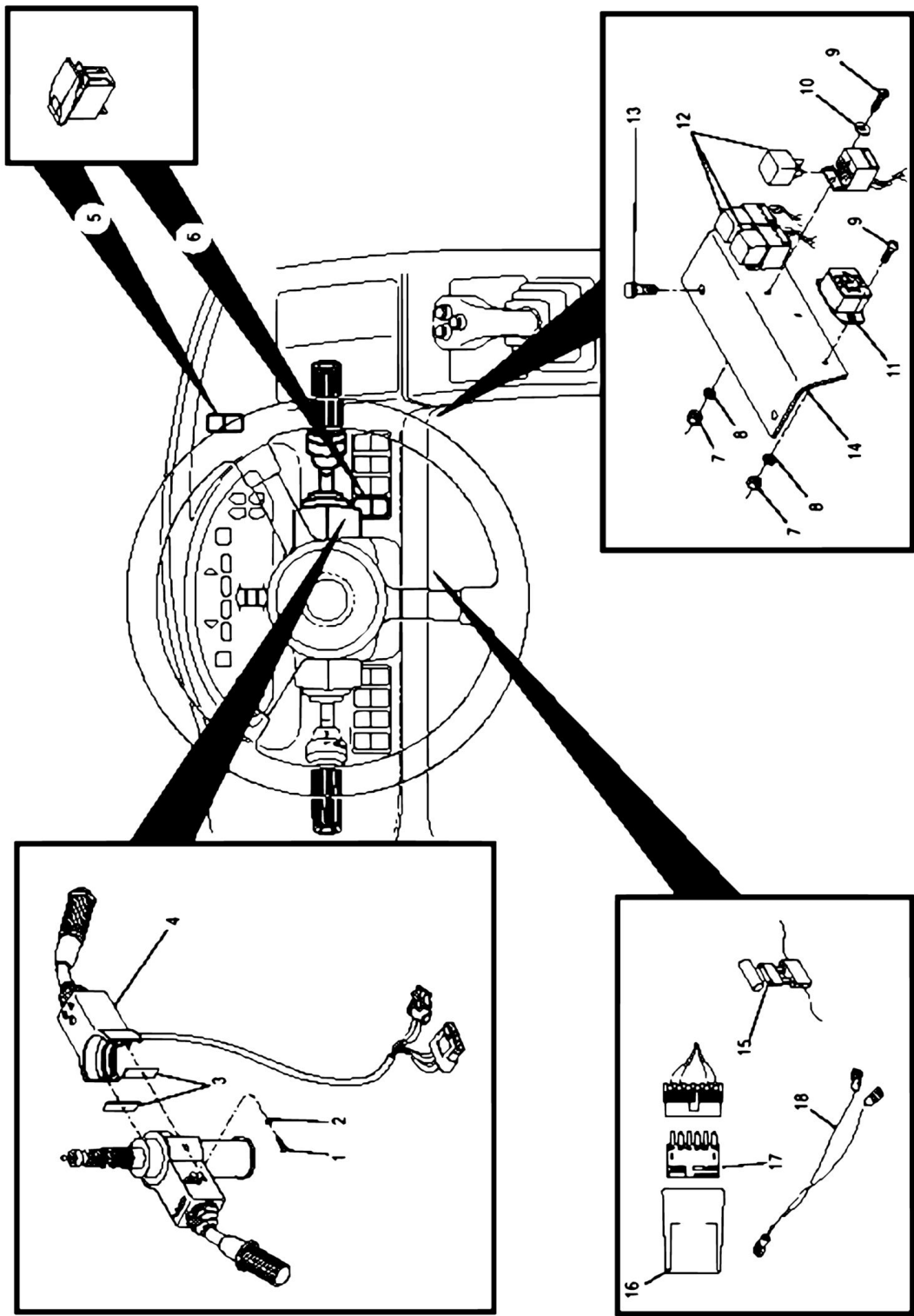
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7150699	1	Roadlight Assembly, Left Front (Includes Items 3 & 5)	
2	7150716	1	Roadlight Assembly, Right Front (Includes Items 4 & 6)	
3	7150685	1	Mount, Left Front Headlight	
4	7150717	1	Mount, Right Front Headlight	
5	7150702	1	Headlight Assembly, Left Front (See "A" for Breakdown) (Includes Items 7 Thru 12)	
6	7150703	1	Headlight Assembly, Right Front (See "A" for Breakdown) (Includes Items 7 thru 12)	
7	8036209	1	Lens, Amber Left Headlight (Not Shown)	
7	8036210	1	Lens, Amber Right Headlight (Shown)	
8	8036212	1	Lens, Headlight (Left or Right)	
9	8036216	6	Screw, Headlight Lens	
10	8036213	1	Bulb, Headlight	
11	8036214	1	Bulb, Blinker	
12	8036215	1	Wiring Harness (Includes 6-way Connector)	
13	7150679	1	Roadlight, Assembly Left Rear (Includes Items 15, 17 one of Item 23 & Items 27, 28)	
14	7150689	1	Roadlight, Assembly Right Rear (Includes Items 16, 17 one of Item 23 & Items 27, 28)	
15	7150681	1	Mount, Left Rear Tail Light	
16	7150680	1	Mount, Right Rear Tail Light	
17	7150690	2	Tail Light Assembly (See "C" for Breakdown) (Includes Items 18 thru 22)	
18	8036219	1	Lens,Tail Light	
19	N.S.S.	4	Screw,Tail Light Lens	
20	8036222	1	Bulb,Tail and Brake Light	
21	8036221	1	Bulb, Blinker	
22	8036220	1	Wiring Harness (Includes 4-way Connector)	
23	7150687	2	Worklight Assembly (See "B" for Breakdown) (Includes Items 24 thru 26)	
24	8036218	1	Bulb, Worklight - Halogen	
25	8036217	1	Lens, Worklight	
26	8036216	4	Screw, Worklight Lens	
27	8305626	1	Nut, Hex Lock, 5/16in-18	
28	8303745	1	HHCS, 5/16-18 x 5/8in	
29	7150688	1	Boom Worklight Assembly (Includes Items 30 thru 34)	
30	7150674	1	Mount, Worklight	
31	8305626	1	Nut, Hex Lock 5/16in-18	
32	8307106	1	Washer, Flat 5/16in	
33	8303745	1	HHCS, 5/16-18 x 5/8in	
34	7150687	1	Worklight (See "B" for Breakdown) (Includes Items 35 thru 37)	
35	8036218	1	Bulb, Worklight - Halogen	
36	8036217	1	Lens, Worklight	
37	8036216	4	Screw, Worklight Lens	
38	7139492	1	Tapping Block, Boom Worklight	
39	8307204	12	Washer Plain, 3/8in	
40	8303771	2	HHCS, 3/8-16 x 2.25in	
41	8303581	8	HHCS 3/8-16 x 3/4in	
42	8307005	14	Washer, Lock 3/8in	
43	8303622	4	HHCS, 3/8in x 2in	
44	8305645	4	Nut, Hex Lock Elastic 3/8in-16	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	8584018	2	Mount, Tie	
46	8584001	32	Tie, Plastic, 6.7in	
47	7139497	1	Harness, Roadlights	
48	7150730	1	Harness, Boom Worklight	
		Ref	N.S.S. = Not Sold Separately	

SECTION 10 - ELECTRICAL

FIGURE 10-5. ROADLIGHTS - SWITCHS AND FUSES



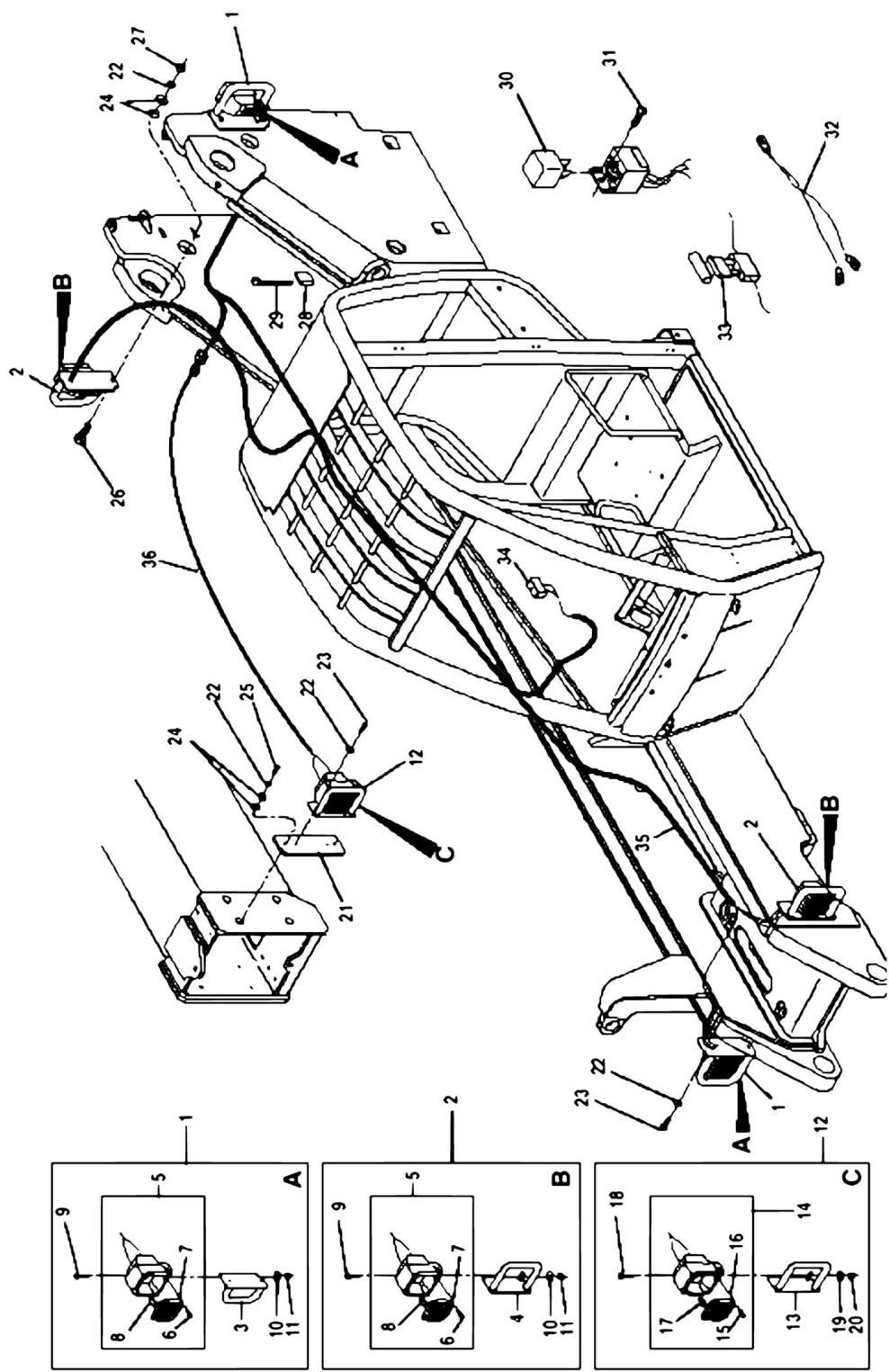
SECTION 10 - ELECTRICAL

FIGURE 10-5. ROADLIGHTS - SWITCHS AND FUSES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8310559	2	MS, M5 x 25mm	
2	8310078	2	Washer, Lock, M5	
3	7131961	4	Spacer, Transmission Shifter	
4	7150742	1	Lever, Turn Signal	
5	8223060	1	Switch, Hazard Lights	
6	8223059	1	Switch, Worklight	
7	8305002	5	Nut-Hex, #10-24 NC	
8	8307003	5	Washer, Lock #10	
9	8310362	5	BHCS, #10-24 x 1/2in	
10	8307111	3	Washer, Flat #10 SAE	
11	8500203	1	Flasher, Hazard Lights	
12	8225119	3	Relay, Sealed	
13	8303982	2	Screw, Hx, Hd, .250 x .75in	
14	7139615	1	Bracket, Relay	
15	8229247	1	Fuse, 25 Amp (White)	
16	8220357	1	Cap, Clear Ves-Pac	
17	8229030	1	Board, Diode 1 Amp	
18	7139662	1	Jumper Wire, Acc Power	

SECTION 10 - ELECTRICAL

FIGURE 10-6. WORKLIGHTS ASSEMBLY



SECTION 10 - ELECTRICAL

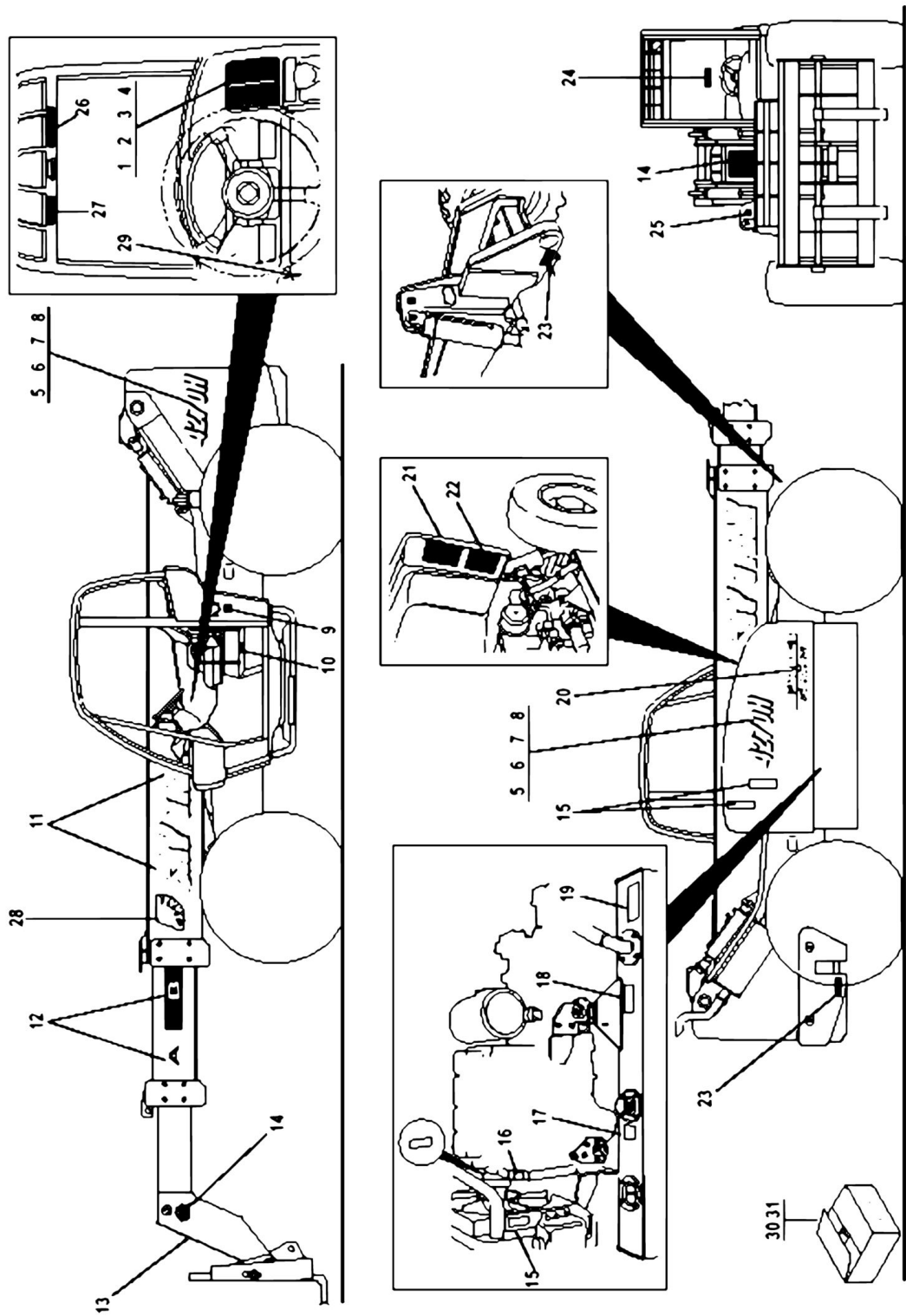
FIGURE 10-6. WORKLIGHTS ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7150673	2	Frame Worklight Assembly Right Front and Left Rear (See "A" for Breakdown) (Includes Items 3, 5 & 9 thru 11)	
2	7150688	2	Frame Work Light Assembly Left Front and Right Rear (See "A" for Breakdown) (Includes Items 4, 5 & 9 thru 11)	
3	7150675	1	Mount, Right Front and Left Rear Worklight	
4	7150674	1	Mount, Left Front and Right Rear Worklight	
5	7150687	1	Worklight Assembly (See "A" or "B" for Breakdown) (Includes Items 6 thru 8)	
6	8036216	4	Screw, Worklight Lens	
7	8036217	1	Lens, Worklight	
8	8036218	1	Bulb, Worklight - Halogen	
9	8303745	2	HHCS, 5/16-18 x 5/8in	
10	8307106	2	Washer, Flat 5/16in	
11	8305626	2	Nut, Hex Lock 5/16in-18	
12	7150687	1	Boom Worklight Assembly (See "C" for Breakdown) (Includes Items 13, 14 & 18 thru 20)	
13	7150674	1	Mount, Boom Worklight	
14	7150687	1	Worklight Assembly (See "C" for Breakdown) (Includes Items 15 thru 17)	
15	8036216	4	Screw, Worklight Lens	
16	8036217	1	Lens, Worklight	
17	8036218	1	Bulb, Worklight - Halogen	
18	8303745	1	HHCS, 5/16-18 x 5/8in	
19	8307106	1	Washer, Flat 5/16in	
20	8305626	1	Nut, Hex Lock 5/16in-18	
21	7139492	1	Tapping Block, Boom Worklight	
22	8307005	10	Washer, Lock 3/8in	
23	8303681	6	HHCS, 3/8-16 x 3/4in	
24	8307204	12	Washer Plain, 3/8in	
25	8303771	2	HHCS, 3/8-16 x 2.25in	
26	8310376	4	HHCS, 3/8-16 x 1.875in	
27	8305645	4	Nut, Hex Lock Elastic 3/8-16	
28	8584018	9	Mount, Tie	
29	8584001	19	Tie, Plastic, 6.7in	
30	8225119	1	Relay, Sealed	
31	8303982	1	Screw Hex Hd Washer Face 1/4-20 x 3/4in	
32	7139662	1	Jumper Wire, ACC Power	
33	8229247	1	Fuse, 25 Amp (White)	
34	8223059	1	Switch, Worklight	
35	7139496	1	Harness, Worklight	
36	7150730	1	Harness, Boom Worklight	

SECTION 11 - DECALS AND COMMON SUPPLIES

SECTION 11 - DECALS AND COMMON SUPPLIES

FIGURE 11-1. DECALS



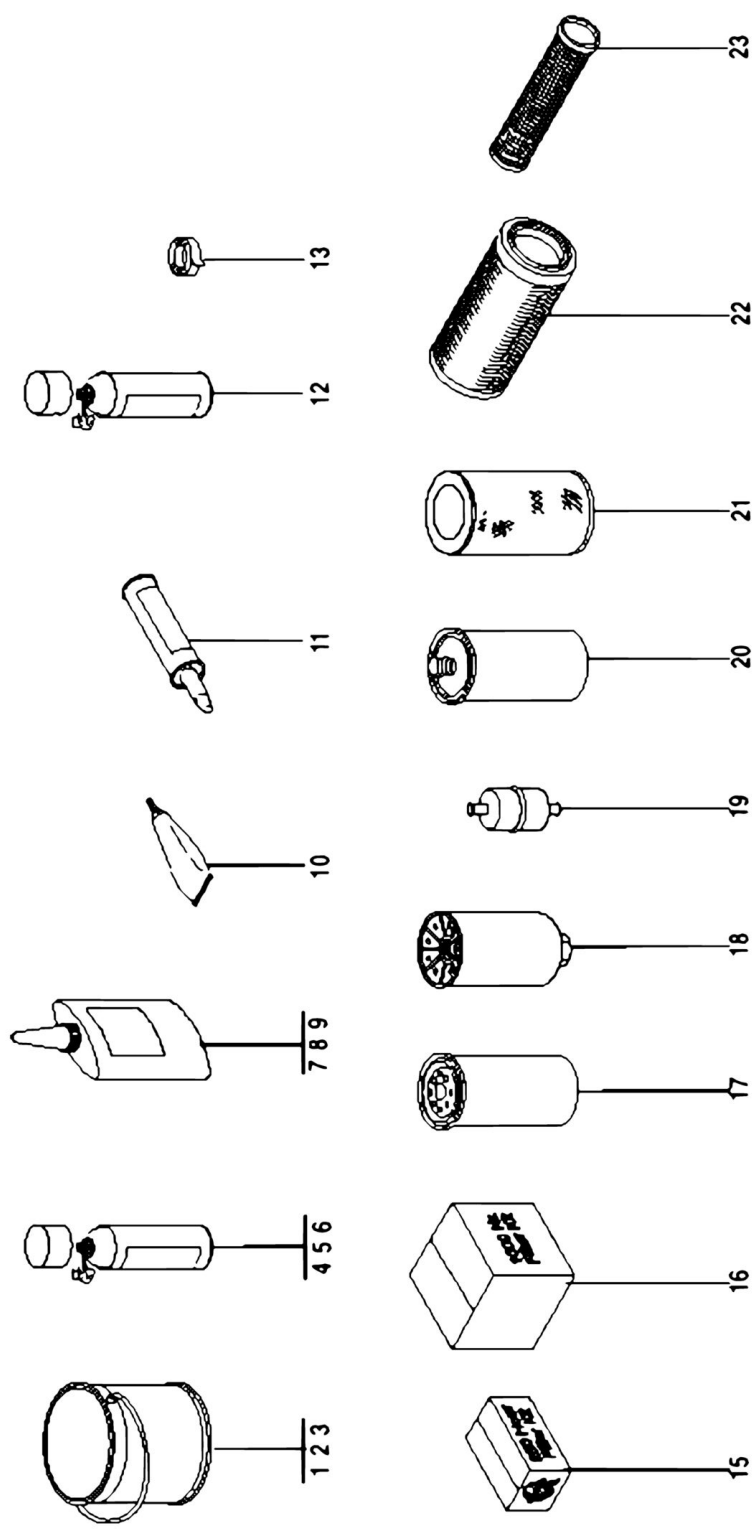
SECTION 11 - DECALS AND COMMON SUPPLIES

FIGURE 11-1. DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7139634	1	Booklet, Load Chart - 4270L	
2	7139635	1	Booklet, Load Chart - 4270H	
3	7139636	1	Booklet, Load Chart - 4290L	
4	7139637	1	Booklet, Load Chart - 4290H	
5	4110241	2	Decal, 4270L	
6	4110240	2	Decal, 4270H	
7	4110239	2	Decal, 4290L	
8	4110238	2	Decal, 4290H	
9	4105171	1	Decal, Diesel Fuel Fill	
10	4109091	1	Decal, Oper Manual Location	
11	4110131	2	Decal, SKY TRAK 57in	
12	4110130	1	Decal, Boom Extend Stripes	
13	4109041	1	Decal, Carrying Personnel	
14	4110133	2	Decal, OmniQuip Textron Logo 5in	
15	4110184	2	Decal, Fan Warning	
16	4107901	1	Decal, Engine Idle Setting	
17	4100181	1	Decal, Hydraulic Oil Fill	
18	4108302	1	Decal, Hydraulic Oil Level	
19	4110172	1	Decal, Battery Hazard	
20	4110132	1	Decal, Millennia Series 27in	
21	4110116	1	Decal, Lubrication Chart	
22	4110117	1	Decal, Maintenance Chart	
23	4110226	4	Decal, Lift Point/Tie Down	
24	4109791	1	Decal, Emergency Exit (Enclosed Cab Only)	
25	4108181	1	Decal, Made in USA	
26	4110137	1	Decal, Tip Over Hazard	
27	4108991	1	Decal, Electrocution Hazard	
28	4105262	1	Decal, Boom Angle Indicator	
29	4108201	1	Ring, Key	
		Ref	KITS	
30	8024013		Decal Kit, 4270L 4270H (Includes Items 5, 6 & 9 thru 28)	
31	8024014	1	Decal Kit, 4290L 4290H (Includes Items 7, 8 & 9 thru 28)	

SECTION 11 - DECALS AND COMMON SUPPLIES

FIGURE 11-2. PAINT AND COMMON SUPPLIES



SECTION 11 - DECALS AND COMMON SUPPLIES

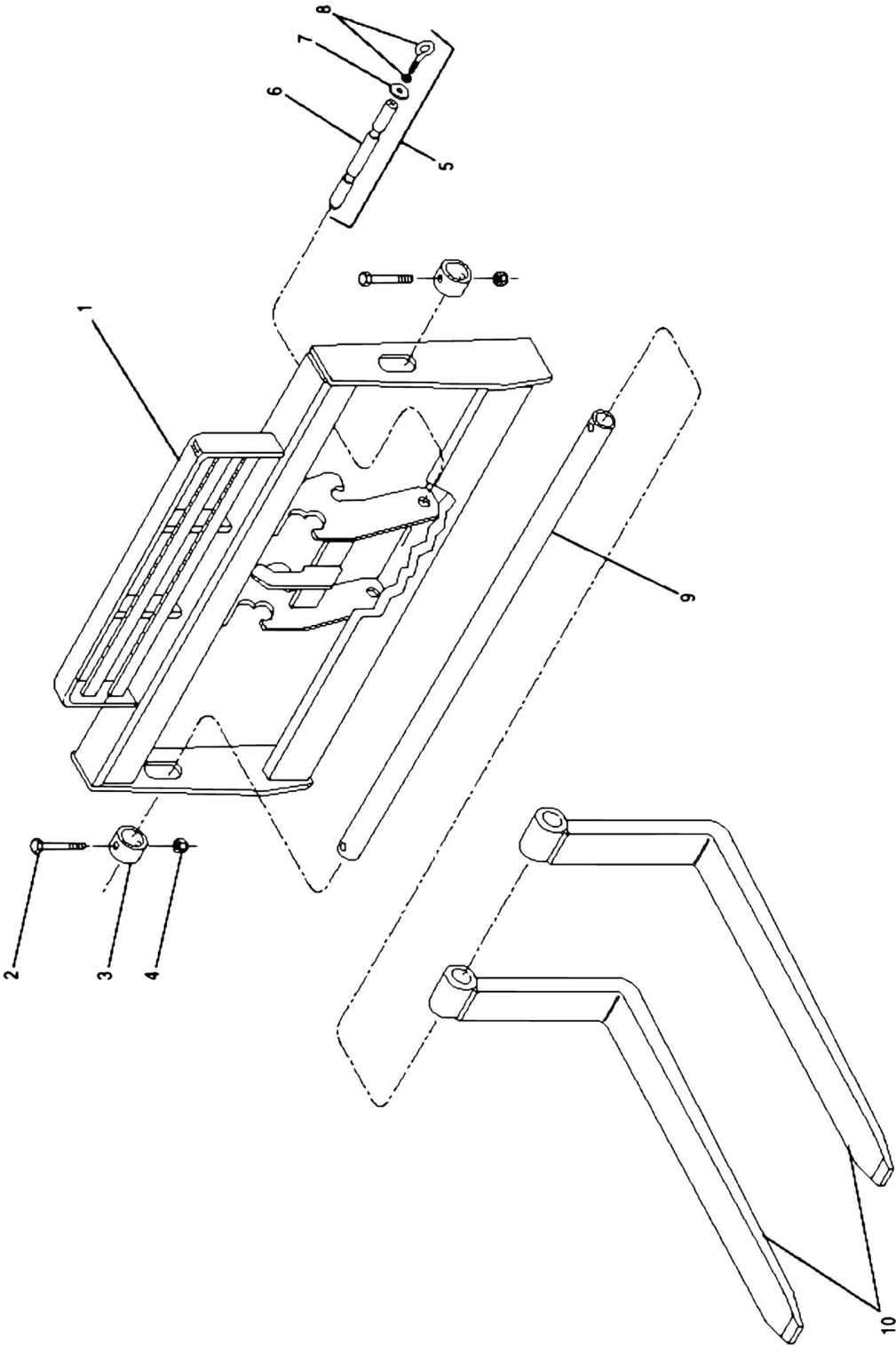
FIGURE 11-2. PAINT AND COMMON SUPPLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8528074	1	Paint, Orange, Acrylic Enamel, Gallon (Service Repaint)	
2	8528080	1	Paint, Black, Acrylic Enamel, Gallon (Service Repaint)	
3	8528105	1	Paint, Dark Grey, Acrylic Enamel, Gallon (Service Repaint)	
4	8528071	1	Paint, Orange, Acrylic Enamel, Can (16 oz spray - touch-up)	
5	8528101	1	Paint, Black, Acrylic Enamel, Can (16 oz spray - touch-up)	
6	8528106	1	Paint, Off White, Acrylic Enamel, Can (16 oz spray - touch -up)	
7	8526007	1	Thread Locker Loctite #242, 250 ml (Bottle)	
8	8526011	1	Thread Locker Loctite #271, 250 ml (Bottle)	
9	8526052	1	Thread Locker Loctite #277, 250 ml (Bottle)	
10	8522012	1	Lube, Anti-Seize	
11	8035523	1	Sealant, Urethane, 10 Oz Cartridge	
12	8526042	1	Adhesive, Spray	
13	8526053	1	Tape, Thread Sealant	
14	8526056	1	Gasket Eliminator, Loctite #518	
15	7138288	1	Filter Kit, 250 Hour (Includes Items 17 & 18)	
16	7139238	1	Filter Kit, 1000 Hour (Includes Items 17 thru 23)	
17	8320262	1	Filter, Engine Oil	
18	8320270	1	Fuel Filter, Primary	
19	8274022	1	Fuel Filter, Inline Strainer	
20	1319726	1	Filter, Transmission Oil	
21	8320265	1	Filter, Hydraulic Oil	
22	8035098	1	Air Filter, Primary	
23	8035099	1	Air Filter, Safety Element	

SECTION 12 - ATTACHMENTS

SECTION 12 - ATTACHMENTS

FIGURE 12-1. 48IN, 60IN AND 72IN STANDARD CARRIAGE AND FORKS



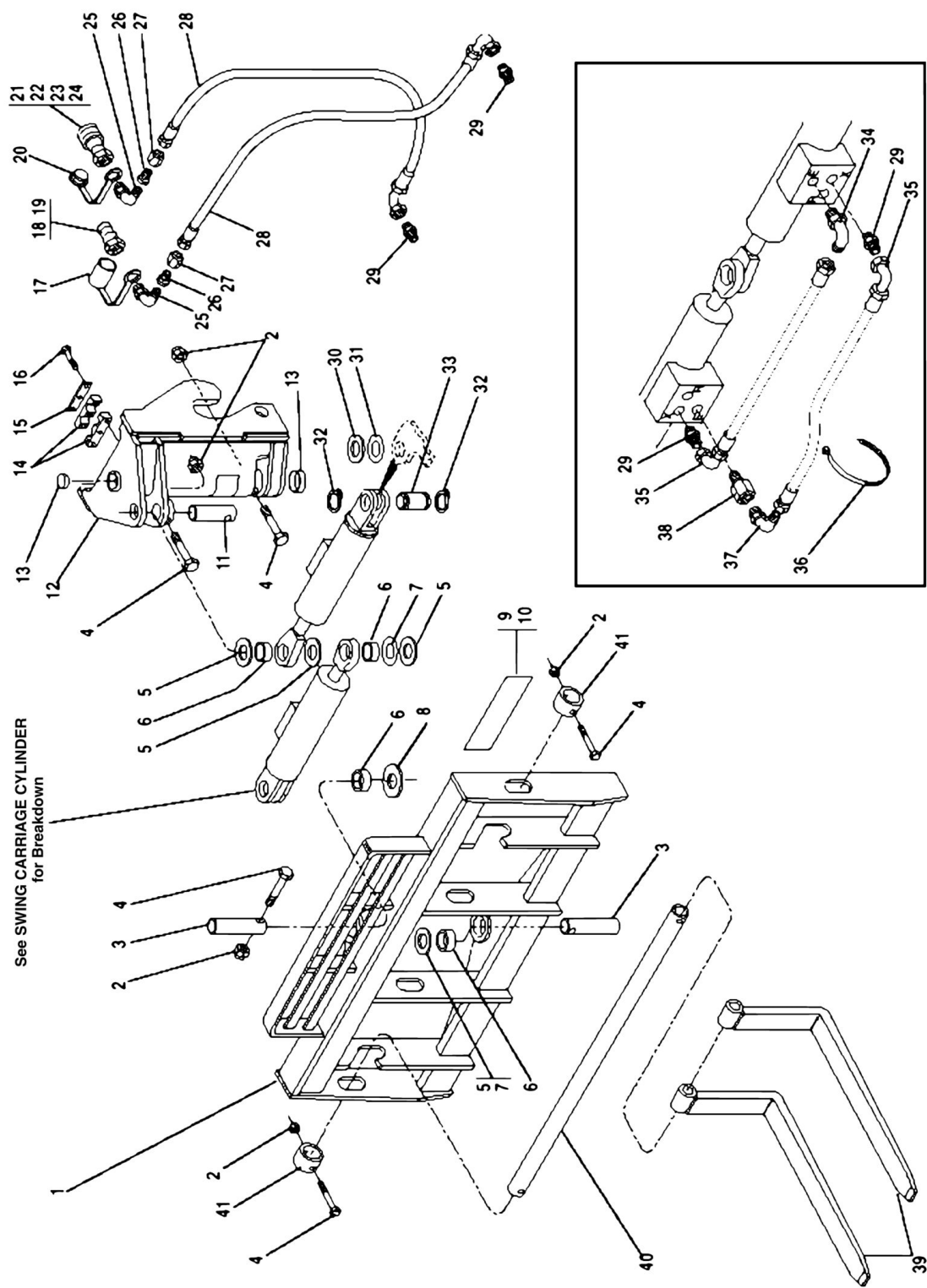
SECTION 12 - ATTACHMENTS

FIGURE 12-1. 48IN, 60IN AND 72IN STANDARD CARRIAGE AND FORKS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7083054	1	Carriage, 48in (Standard)	
1	7086304	1	Carriage, 60in (Optional)	
1	7090814	1	Carriage, 72in (Optional)	
3	7086471	2	Collar	
4	8305643	2	Nut, Hex Lock 5/8-11	
5	7118892	1	Pin, Lock (Includes Items 6 thru 8)	
6	7118882	1	Pin	
7	8310276	1	Washer	
8	8310266	1	Bolt, Eye w/Nut	
9	7128772	1	Shaft, 48in	
9	7128792	1	Shaft, 60in	
9	7128802	1	Shaft, 72in	
10	7097523	2	Fork, Pallet 48in x 4in x 2in (4,000 lbs Rating) 4270 Only	
10	7097543	2	Fork, Pallet 48in x 4in x 2.25in (5,000 lbs Rating) 4290 Only	
10	7097533	2	Fork, Lumber (Not Shown)	
10	7085073	6	Fork, Block (Not Shown)	

SECTION 12 - ATTACHMENTS

FIGURE 12-2. SWING CARRIAGE ASSEMBLY



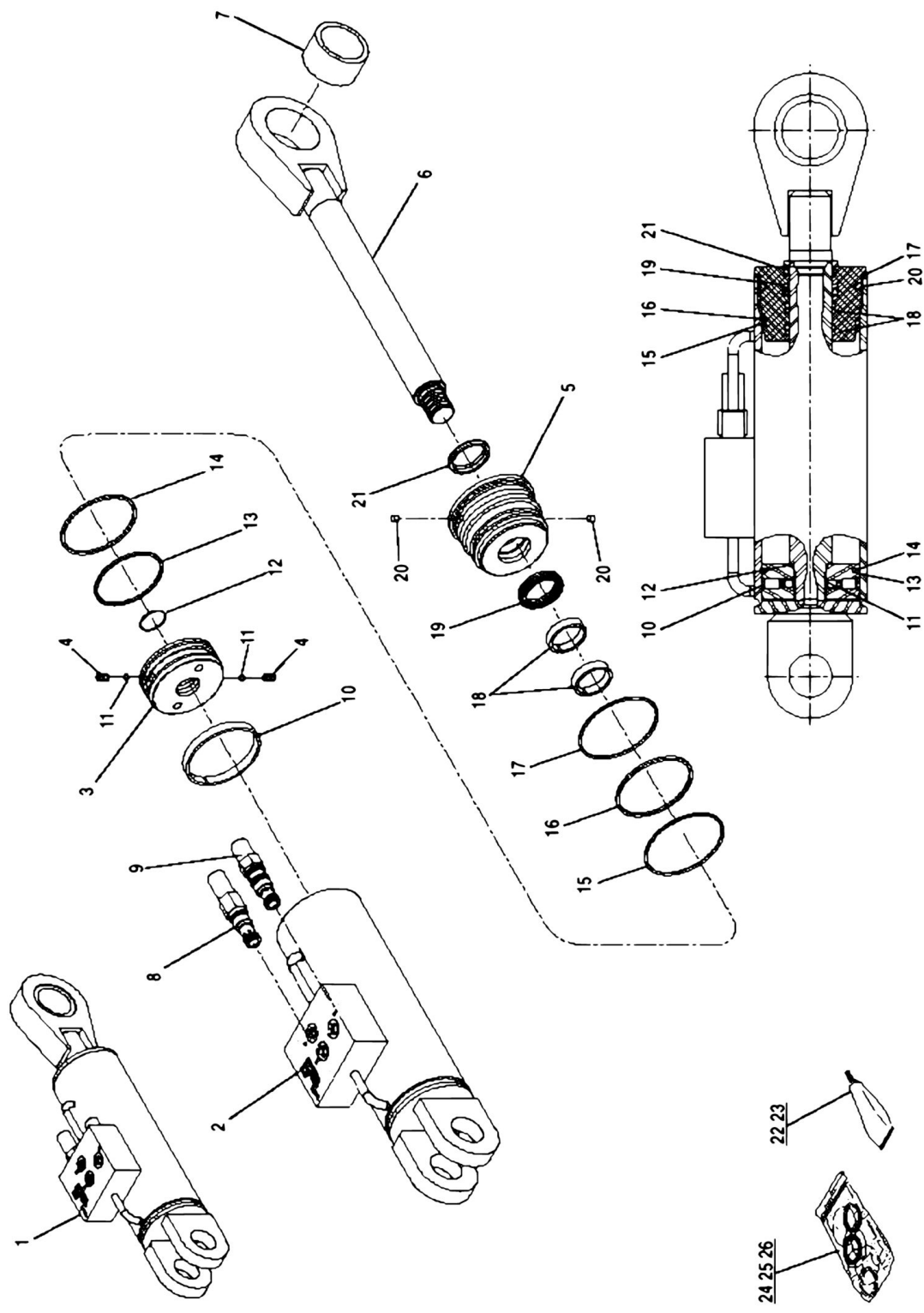
SECTION 12 - ATTACHMENTS

FIGURE 12-2. SWING CARRIAGE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7111994	1	Carriage, 52in	
1	7110694	1	Carriage, 72in	
2	8305643	5	Nut, Hex Lock 5/8-11	
3	7110702	2	Pin, Carriage Pivot	
4	8303634	5	HHCS, 5/8-11 x 4in	
5	8307918	AR	Shim, 2in I.D. x 10 Ga	
6	8065062	4	Bearing, Self Lube	
7	8307904	AR	Shim, 2in I.D. x 18 Ga	
8	7062922	1	Bearing, Thrust	
9	4107702	1	Decal, Danger - Tip Over Hazard	
10	4107712	1	Decal, Danger - No Truss Boom	
11	7110712	1	Pin, Cylinder Pivot (Rod End)	
12	7110494	1	Base, Pivot	
13	8580315	2	Plug, Trim 2-1/2in Dia	
14	8769132	2	Clamp, Half	
15	6608621	1	Cover, Clamp	
16	8303715	3	HHCS, 5/16-18 x 1-1/2in	
17	8420053	1	Cap, Dust #8	
18	8430006	1	Quick Disconnect, Male, SAE 8-8ORB - female internal (Includes Item 19)	
19	8640029	1	Seal, Nose (Not Shown)	
20	8420055	1	Plug, Dust #8	
21	8430005		Quick Disconnect, Female, SAE 8-8ORB - female internal (Includes Items 22, thru 24)	
22	8640029	1	Seal, Nose (Not Shown)	
23	8640028	1	Seal, Coupler Body (Not Shown)	
24	8640032	1	Back-Up Ring, Coupler Body Seal (Not Shown)	
25	8760313	2	Elbow, 90, SAE 6-8 - male JIC 37 x male str	
26	8760475	2	Reducer, Tube End, SAE 6-4 - JIC 37	
27	8760409	2	Nut, SAE 6 - JIC 37	
28	6611752	2	Hose Assembly	
29	8760113	4	Connector, Straight, SAE 4 - male JIC 37 x male str	
30	8310161	AR	Shim, 1-1/2in I.D. x 10 Ga	
31	8310160	AR	Shim, 1-1/2in I.D. x 18 Ga	
32	8642207	4	Ring, Retaining	
33	7110722	2	Pin, Cylinder Pivot (Base End)	
34	8770012	1	Elbow, 90, SAE 6-4 - male JIC 37 x male str thd	
35	6604662	2	Hose Assembly	
36	8584001	AR	Tie Wrap	
37	8760311	1	Elbow, 90, SAE 6 - male JIC 37	
38	8770016	1	Reducer, SAE 4-6	
39	7097523	2	Fork, Pallet 48in x 4in x 2in (4,000 lbs Rating) 4270 Only	
39	7097543	2	Fork, Pallet 48in x 4in x 2.25in (5,000 lbs Rating) 4290 Only	
39	7097533	2	Fork, Lumber (Not Shown)	
39	7085073	6	Fork, Blocking (Not Shown)	
40	7128782	1	Shaft, Fork Pivot 52in	
40	7128802	1	Shaft, Fork Pivot 72in	
41	7086471	2	Hub, Lock	

SECTION 12 - ATTACHMENTS

FIGURE 12-3. SWING CARRIAGE CYLINDER



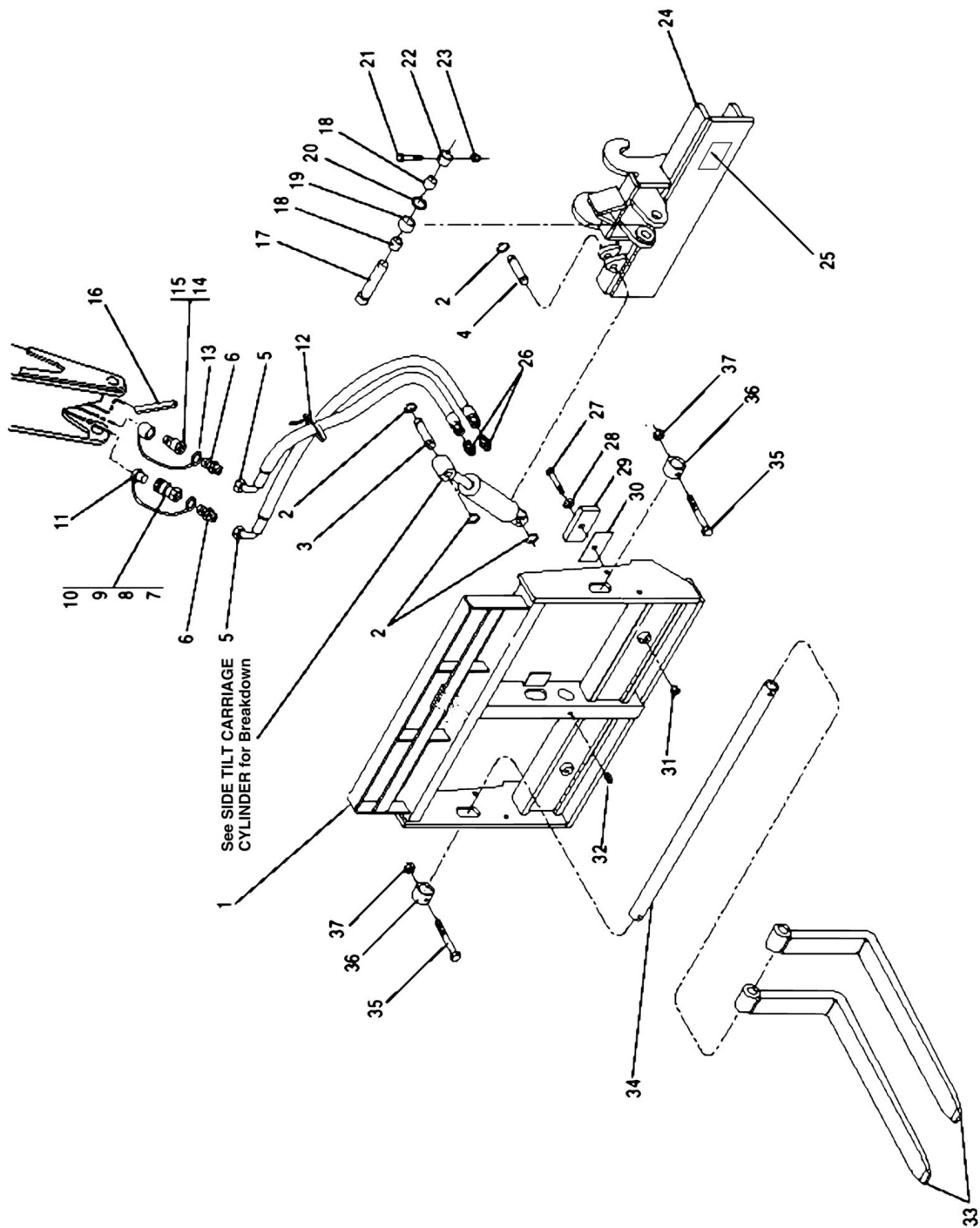
SECTION 12 - ATTACHMENTS

FIGURE 12-3. SWING CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716153	1	Cylinder, Swing Carriage (Includes Items 2 thru 21)	
1	N.S.S.	1	Tube, Weldment	
3	8035863	1	Piston	
4	8035536	1	Screw, Set 5/16-18 UNC x .5in	
5	8035862	1	Gland, Head	
6	8035861	1	Rod, Weldment	
7	8065062	1	Bearing, Duralon Journal	
8	70020428	1	Valve, Relief	
9	8033786	1	Valve, Counterbalance	
10	See Kits	1	Wearband, Precision	
11	See Kits	2	Locking Insert	
12	See Kits	1	O-Ring	
13	See Kits	1	Ring, Square	
14	See Kits	1	Seal, Square Section TFE Piston	
15	See Kits	1	O-Ring	
16	See Kits	1	Ring, Back-Up	
17	See Kits	1	O-Ring	
18	See Kits	2	Wearband, Precision	
19	See Kits	1	Z-Seal, Deep	
20	See Kits	2	Locking Insert	
21	See Kits	1	Wiper, Hd Rod, Sealed	
22	8526011	AR	Threadlocker, Loctite #271 (250cc)	
23	8526036	AR	Threadlocker, Loctite #242 (.02 fl oz)	
		Ref	N.S.S. = Not Sold Separately	
		Ref	KITS	
24	8035830	1	Seal Kit (Includes Items 10 thru 21)	
25	8025655	1	Seal Kit, For Item 9 Counterbalance Valve	
26	7024574	1	Seal Kit, For Item 8 Relief Valve	

SECTION 12 - ATTACHMENTS

FIGURE 12-4. SIDE TILT CARRIAGE ASSEMBLY



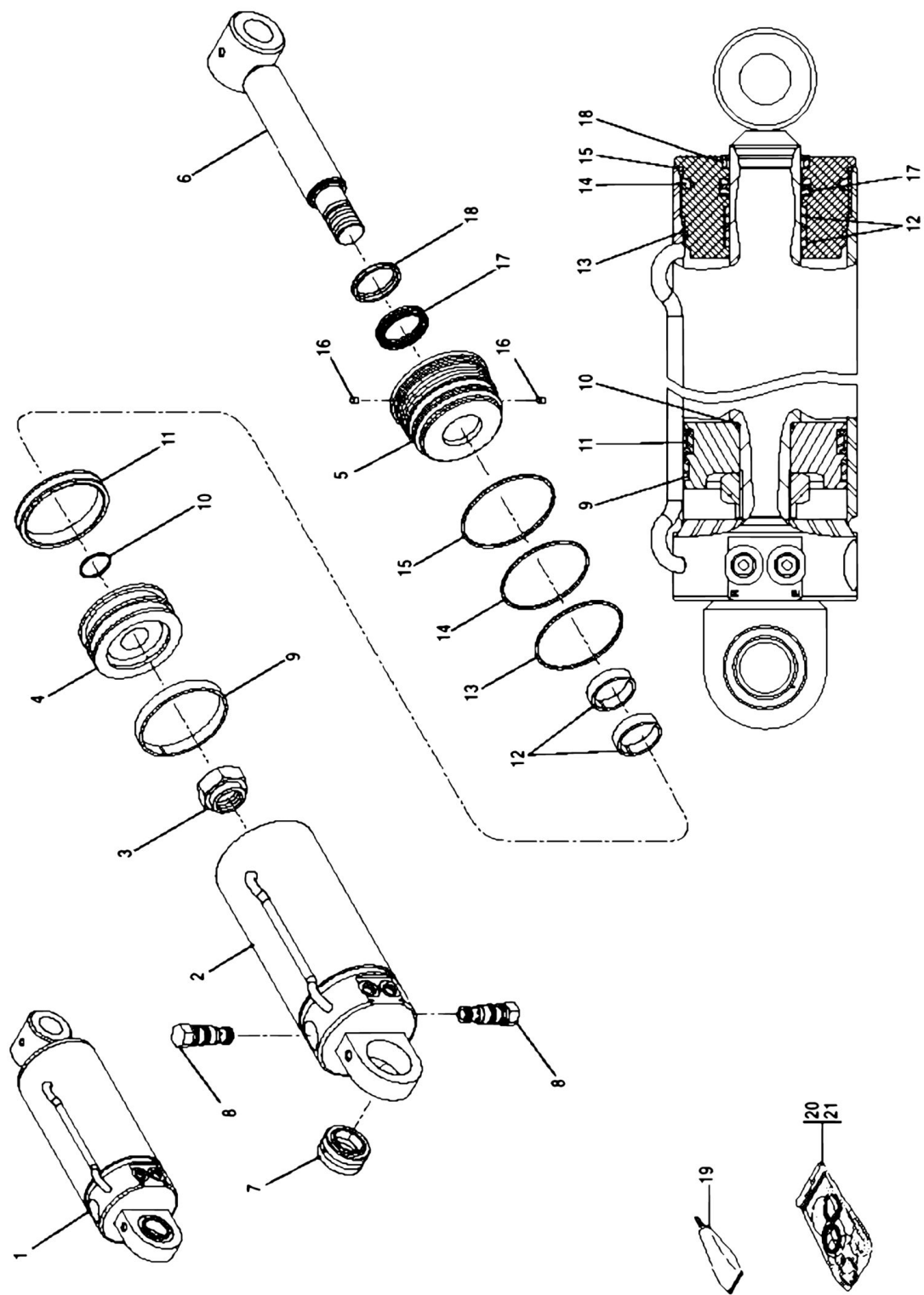
SECTION 12 - ATTACHMENTS

FIGURE 12-4. SIDE TILT CARRIAGE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7117244	1	Carriage, Side Tilt, 48in	
1	7117254	1	Carriage, Side Tilt, 60in	
1	7117264	1	Carriage, Side Tilt, 72in	
2	8642235	4	Ring, Snap	
3	7077511	1	Pin, Cyl Rod	
4	7077501	1	Pin, Cyl Base	
5	2711992	2	Hose Assembly	
6	8760110	2	Connector, Straight, SAE 6-8	
7	8430005	1	Quick Disconnect, Female, SAE 8-8ORB - female internal (Includes Items 8 thru 10)	
8	8640029	1	Seal, Nose (Not Shown)	
9	8640028	1	Seal, Coupler Body (Not Shown)	
10	8640032	1	Back-Up Ring, Coupler Body Seal (Not Shown)	
11	8420055	1	Plug, Dust #8	
12	8584001	AR	Tie Wrap	
13	8420053	1	Cap, Dust #8	
14	8430006	1	Quick Disconnect, Male, SAE 8-8ORB - female internal (Includes Item 15)	
15	8640029	1	Seal, Nose (Not Shown)	
16	7125741	1	Molding	
17	7085411	1	Pin, Pivot	
18	7077481	2	Spacer	
19	8065634	1	Bushing, Self Align	
20	8642001	1	Ring, Snap	
21	8303770	1	HHCS, 3/8-16 x 2-3/4in	
22	7085501	1	Collar, Pin Locking	
23	8305645	1	Locknut, 3/8-16 ESNA	
24	7117204	1	Base, Pivot	
25	7119341	1	Plate, Capacity	
26	8760117	2	Connector, Straight, SAE 6	
27	8303739	2	HHCS, 5/16-18 x 1-1/4in	
28	8307203	2	Washer, Flat Heavy	
29	7065482	2	Pad, Wear	
30	7070191	AR	Shim	
31	8305626	2	Nut, Hex Lock 5/16-18	
32	8541433	1	Plug, Pipe, Skt Hd - 1/8in NPTF	
33	7097523	2	Fork, Pallet 48in x 4in x 2in (4,000 lbs Rating) 4270 Only	
33	7097543	2	Fork, Pallet 48in x 4in x 2.25in (5,000 lbs Rating) 4290 Only	
33	7097533	2	Fork, Lumber (Not Shown)	
33	7085073	6	Fork, Blocking (Not Shown)	
34	7128772	1	Shaft, Fork Pivot 48in	
34	7128792	1	Shaft, Fork Pivot 60in	
34	7128802	1	Shaft, Fork Pivot 72in	
35	8303634	2	HHCS, 5/8-11 x 4in	
36	7086471	2	Hub, Lock	
37	8305643	2	Nut, Hex Lock 5/8-11	

SECTION 12 - ATTACHMENTS

FIGURE 12-5. SIDE TILT CARRIAGE CYLINDER



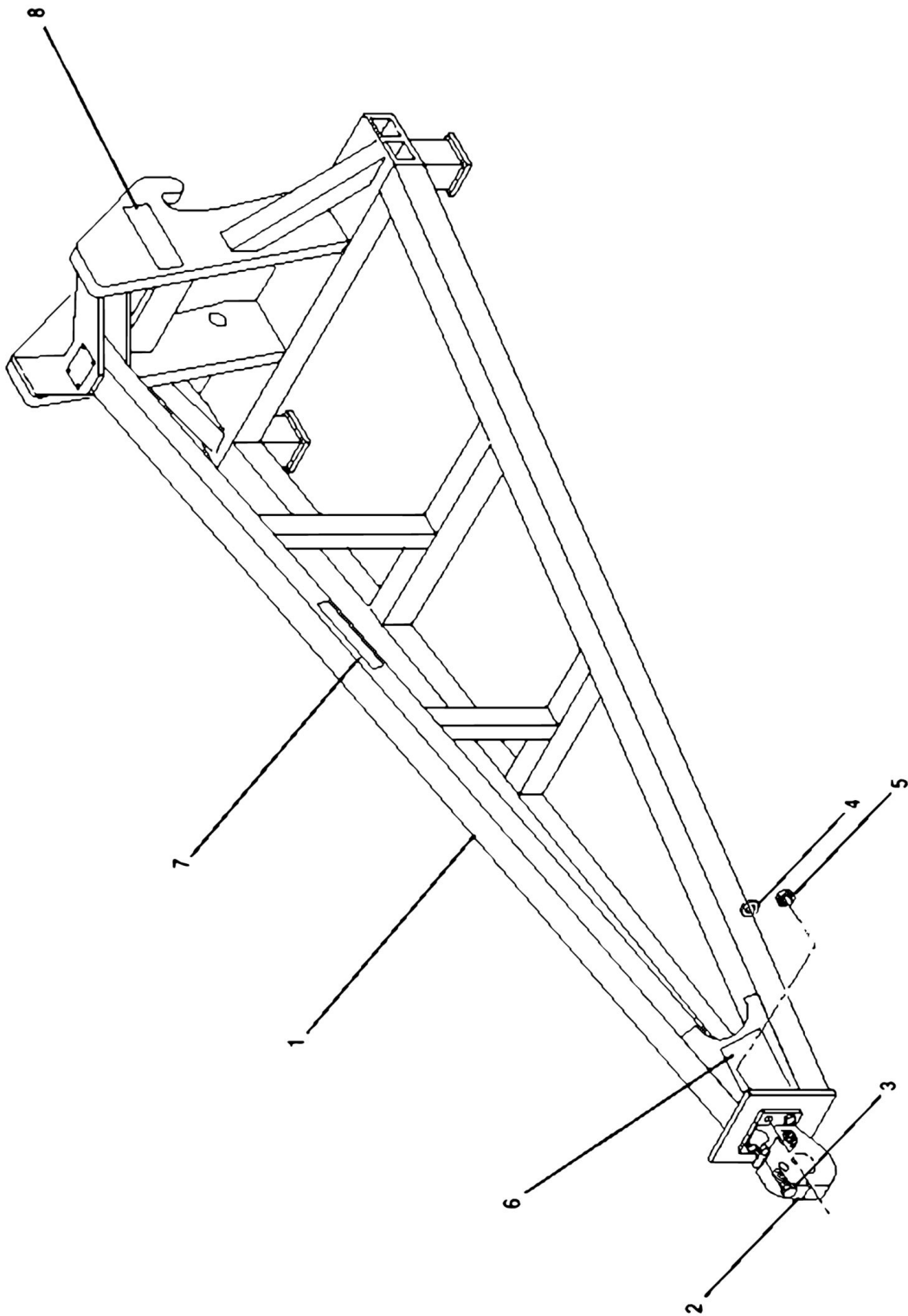
SECTION 12 - ATTACHMENTS

FIGURE 12-5. SIDE TILT CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2716143	1	Cylinder, Side Tilt Carriage (Includes Items 2 thru 18)	
2	N.S.S.	1	Tube, Weldment	
3	8035865	1	Locknut	
4	8035868	1	Piston	
5	8035867	1	Gland, Head	
6	8035866	1	Rod, Weldment	
7	8036451	1	Bearing, Spherical	
8	8902511	2	Valve, Check	
9	See Kits	1	Wearband, Precision	
10	See Kits	1	O-Ring	
11	See Kits		T-Seal, Capped	
12	See Kits	2	Wearband, Precision	
13	See Kits	1	O-Ring	
14	See Kits	1	Ring, Back-Up	
15	See Kits	1	O-Ring	
16	See Kits	2	Locking Insert	
17	See Kits	1	Z-Seal, Deep	
18	See Kits	1	Wiper, Hd Rod - Sealed O.D.	
19	8526011	AR	Threadlocker, Loctite #271 (250cc)	
		Ref	N.S.S = Not Sold Separately	
		Ref	KITS	
20	8035831	1	Seal Kit (Includes Items 9 thru 18)	
21	8205655	2	Seal Kit, For Item 8 Check Valve	

SECTION 12 - ATTACHMENTS

FIGURE 12-6. 12 FT TRUSS BOOM



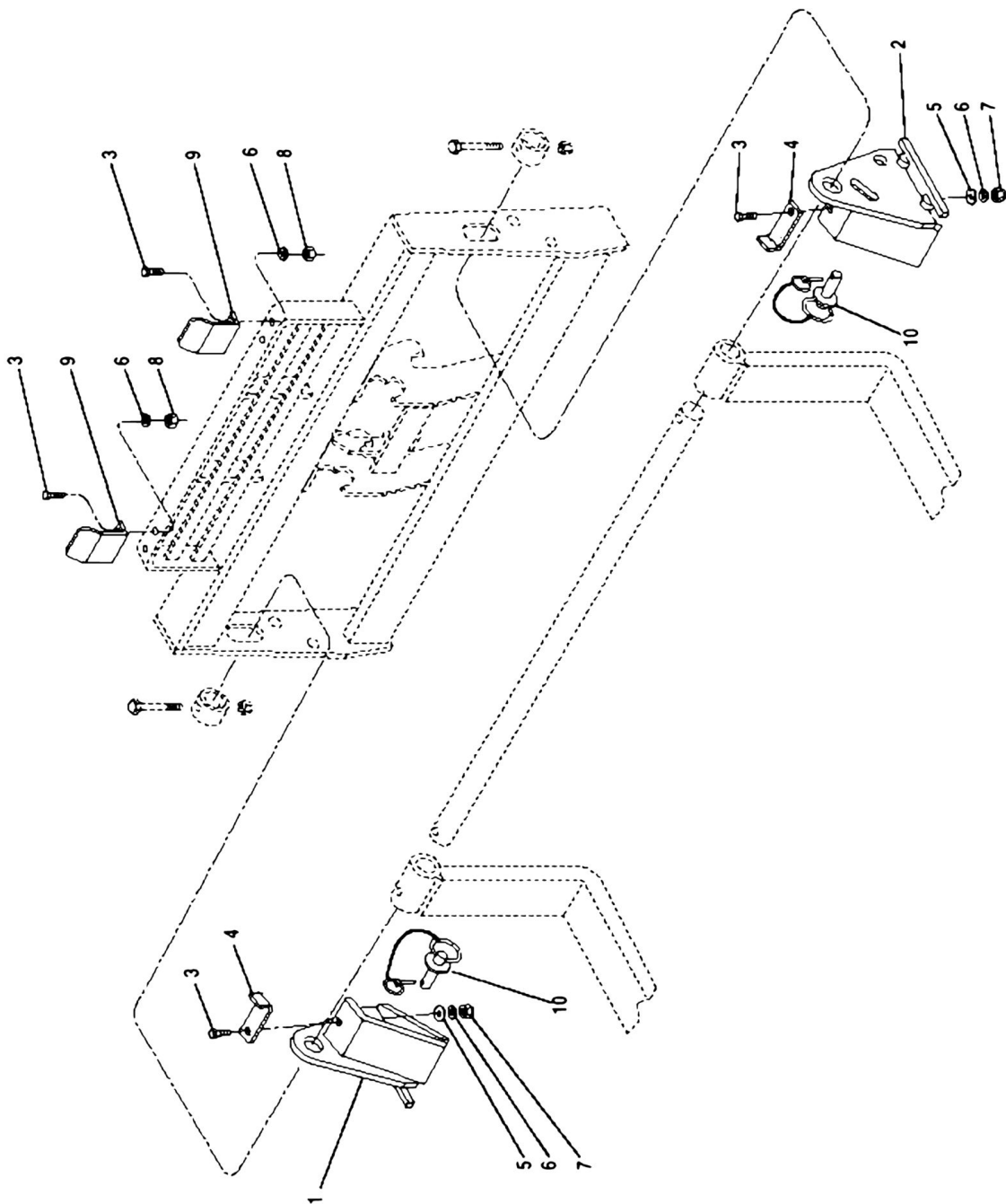
SECTION 12 - ATTACHMENTS

FIGURE 12-6. 12 FT TRUSS BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7113024	1	12ft Truss Boom (Includes Items 2 thur 8)	
2	8382017	1	Hook, Pintle	
3	8310195	4	HHCS, 1/2-13 x 1-3/4in	
4	8307112	4	Washer, Flat SAE 1/2in	
5	8305644	4	Nut, Hex Lock Elastic, 1/2in-13	
6	4107822	2	Decal, Swing Load	
7	4107832	2	Decal, Length/Capacity	
8	4107182	2	Decal, Name	

SECTION 12 - ATTACHMENTS

FIGURE 12-7. SHEET MATERIAL HANDLER ASSEMBLY



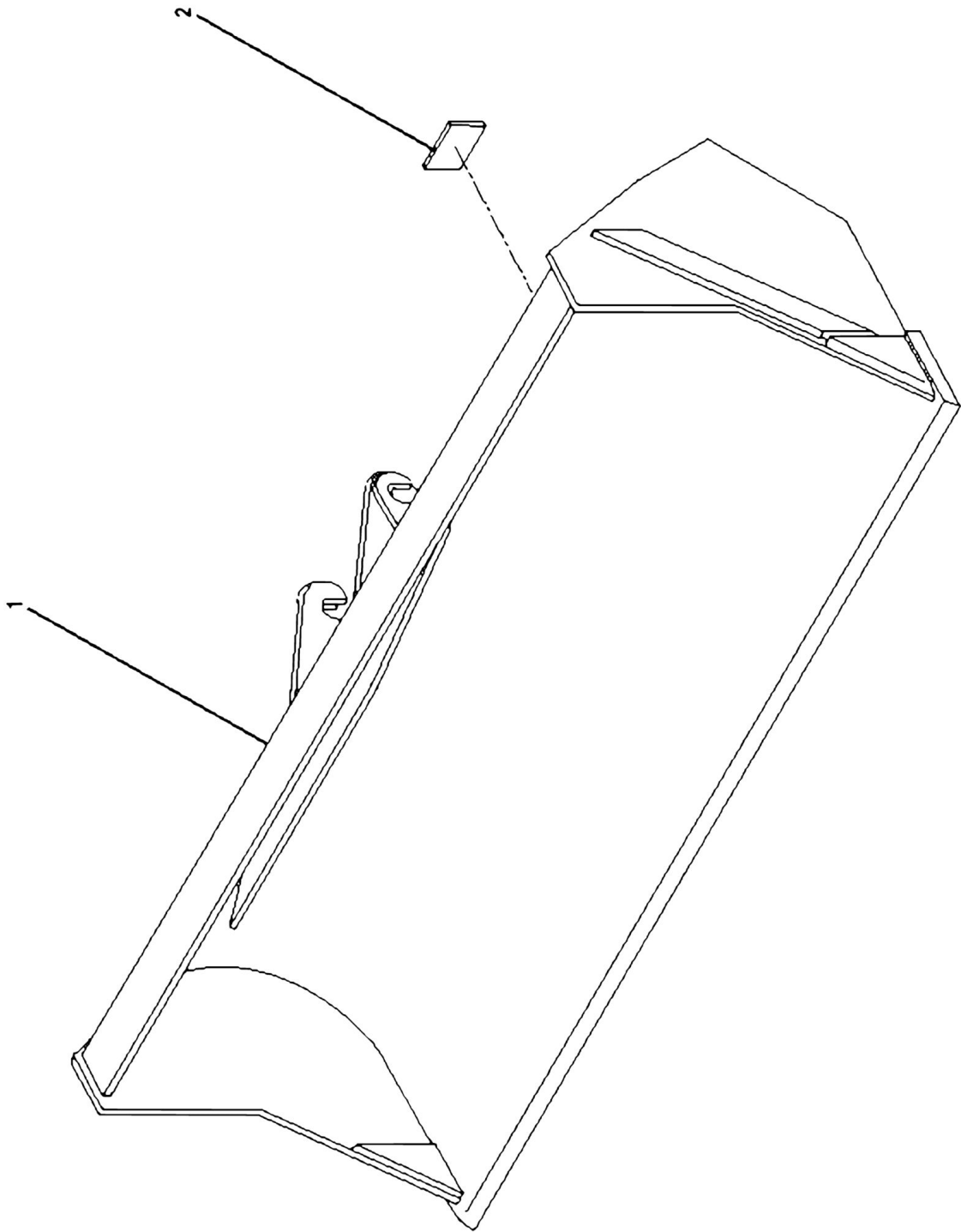
SECTION 12 - ATTACHMENTS

FIGURE 12-7. SHEET MATERIAL HANDLER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7112533	1	Support, Fork, Right Side	
2	7112523	1	Support, Fork, Left Side	
3	8303626	6	HHCS, 1/2in-13 x 1-1/2in	
4	7114941	2	Bar, Lock	
5	8307112	2	Washer, Flat 1/2in LT	
6	8307007	6	Washer, Lock 1/2in	
7	8305644	2	Nut, Hex Lock Elastic 1/2in-13	
8	8305012	2	Nut, Hex 1/2in-13	
9	7112642	2	Extension, Backrest, Top	
10	8301456	2	Pin, Hitch	

SECTION 12 - ATTACHMENTS

FIGURE 12-8. UTILITY BUCKET



SECTION 12 - ATTACHMENTS

FIGURE 12-8. UTILITY BUCKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7110744	1	Bucket, Utility, 1-1/4 cu yd (Includes Item 2)	
2	4106561	1	Plate, Capacity	

PART NUMBER INDEX

SECTION 12 - ATTACHMENTS

10731703.....51	1319381.....33	1319484.....49	1319581.....53
10731709.....69, 71, 75	1319382.....33	1319485.....49	1319582.....53
10731732.....51	1319383.....33	1319491.....21, 42	1319583.....53
10731744.....51	1319384.....33	1319494.....69	1319584.....53
10731845.....55, 57, 61	1319385.....33	1319496.....21, 41	1319585.....53, 67
10731913.....51	1319386.....33	1319497.....21, 41	1319586.....53
10731949.....22, 42	1319387.....33	1319498.....22, 42	1319587.....53
10731959.....67, 81	1319388.....33	1319499.....22, 42	1319588.....53
10732029.....71	1319389.....33	1319500.....22, 42	1319589.....67
10732063.....71, 75	1319390.....33	1319501.....22, 42	1319590.....53
10732064.....71	1319391.....33	1319502.....22, 42	1319591.....55
10732071.....69	1319392.....33	1319504.....22, 42	1319592.....55, 57, 59, 61,
10732072.....69	1319393.....33	1319505.....21, 41	63, 65
10839156.....67	1319394.....33	1319506... 19, 21, 29, 39,	1319593.....55, 57, 59, 61,
1101056.....27, 47	1319395.....33	41, 49	63, 65
1318539.....41	1319396.....33	1319510.....21, 41	1319594.....55, 57, 59, 61,
1319210.....27, 47	1319397.....33	1319511.....21, 41	63, 65
1319229.....51	1319398.....33	1319512.....21, 41	1319595.....55, 57, 59, 61,
1319236.....51	1319399.....34	1319513.....21, 41	63, 65
1319258.....51	1319400.....34	1319514.....21, 41	1319596.....55, 57, 61
1319333.....34	1319401.....34	1319515.....21, 41	1319597.....55, 57, 59, 61,
1319334.....34	1319402.....34	1319516.....21, 41	63, 65
1319335.....34	1319406.....33	1319517.....21, 41	1319598.....55, 57, 59, 61,
1319336.....34	1319412.....37	1319518.....21, 41	63, 65
1319337.....34	1319415.....17	1319519.....21, 41	1319599.....55, 57, 59, 61,
1319338.....34	1319423.....19, 39	1319520.....21, 41	63, 65
1319339.....34	1319425... 19, 21, 39, 41	1319521.....21, 41	1319600.....55, 57, 59, 61,
1319340.....34	1319427.....19, 39	1319522.....21, 41	63, 65
1319341.....34	1319429.....19, 39	1319523.....21, 41	1319601.....55, 57, 59, 61,
1319342.....34	1319431.....21, 42	1319524.....21, 41	63, 65
1319343.....34	1319432... 19, 21, 29, 39,	1319525.....21, 41	1319602.....55, 57, 59, 61,
1319344.....34	41, 42, 49	1319526.....21, 41	63, 65
1319345.....34	1319433.....19, 39	1319527.....21, 41	1319603.....55, 57, 59, 61,
1319346.....34	1319434.....19, 39	1319529.....21, 41	63, 65
1319347.....34	1319436.....19, 39	1319530.....21	1319604.....55, 57, 59, 61,
1319348.....34	1319438.....19, 39	1319531.....21, 41	63, 65
1319349.....34	1319439.....19, 39	1319532.....21, 41	1319605.....55, 57, 61
1319350.....34	1319440.....19, 39	1319533.....21, 41	1319606.....59
1319351.....34	1319441.....19, 39	1319534.....21, 41	1319607.....55
1319352.....34	1319444.....47	1319535.....21, 41	1319608.....55, 65
1319353.....34	1319445.....27, 47	1319536.....21, 41	1319609.....55, 57
1319354.....33	1319446.....47	1319537.....21, 41	1319612.....55, 57, 59, 61,
1319355.....33	1319447.....27, 47	1319538.....21, 41	63, 65
1319356.....33	1319448.....47	1319539.....21, 41	1319613.....57
1319357.....33	1319449.....47	1319540.....21, 41	1319614.....57
1319358.....33	1319450.....47	1319541.....21, 41	1319615.....57, 61, 63
1319359.....33	1319451.....47	1319542.....21, 41	1319616.....59
1319360.....33	1319452.....47	1319543.....21, 41	1319617.....59, 63, 65
1319361.....33	1319453.....47	1319557.....51	1319618.....59, 63, 65
1319362.....33	1319454.....47	1319558.....51	1319619.....59
1319363.....33	1319455.....47	1319559.....51	1319620.....59, 63, 65
1319364.....33	1319456.....47	1319563.....51	1319621.....59, 63, 65
1319365.....33	1319457.....47	1319565.....51	1319622.....59, 63, 65
1319366.....33	1319458.....47	1319566.....51, 77	1319623.....59, 63, 65
1319367.....33	1319459.....47	1319567.....53	1319624.....59, 63, 65
1319369.....33	1319460.....47	1319568.....53	1319625.....59, 63, 65
1319370.....33	1319461.....47	1319569.....51, 53	1319626.....59, 63, 65
1319371.....33	1319462.....27, 47	1319570.....53	1319627.....59, 63, 65
1319372.....33	1319463.....47	1319571.....53	1319628.....59, 63, 65
1319373.....33	1319464.....27, 47	1319572.....53	1319629.....59, 63, 65
1319374.....33	1319471.....27, 47	1319573.....53	1319630.....59, 63, 65
1319375.....33	1319472.....27, 47	1319574.....51	1319631.....59, 63, 65
1319376.....33	1319475.....27, 47	1319575.....51	1319632.....59, 63, 65
1319377.....33	1319476.....27, 47	1319576.....51, 53	1319633.....59
1319378.....33	1319477.....27, 47	1319577.....51	1319634.....61
1319379.....33	1319478.....9, 11, 27, 47	1319578.....53	1319635.....61
1319380.....33	1319483.....49	1319580.....53	1319636.....61, 63, 65

SECTION 12 - ATTACHMENTS

1319637	63	1319706	71	1321180	25	1321259	37
1319638	63, 65	1319707	71, 75	1321181	25	1321260	37
1319639	65	1319708	71	1321182	25	1321262	37
1319640	67	1319709	75	1321184	17	2711992	283
1319641	67	1319710	75	1321185	13	2715052	163, 165
1319642	67	1319711	75	1321186	13	2715312	231
1319643	67	1319712	75	1321187	13	2716143	285
1319644	67	1319713	75	1321188	37	2716153	281
1319645	67	1319714	75	1321189	13	2716373	177
1319646	67	1319715	75	1321190	13	2716492	163
1319647	67, 81	1319716	71	1321191	29	2716518	79
1319648	67, 81	1319717	75	1321194	14	2716519	79
1319649	67, 81	1319718	77	1321196	13	2716520	185
1319650	69	1319719	77	1321197	13	2716523	185, 221
1319651	69	1319720	77	1321198	13	2716524	185
1319652	69, 71	1319721	77	1321199	13	2716525	185
1319653	69	1319722	77	1321200	13	2716529	185
1319654	69	1319723	77	1321201	14	2716530	185
1319655	69	1319724	77	1321202	14	2716531	185
1319657	69	1319725	77	1321203	14	2716532	163, 165
1319659	69	1319726	77, 273	1321204	14	2716533	163, 165
1319660	69	1320748	81	1321205	29	2716534	167, 169
1319661	69, 71	1320749	81	1321206	25	2716535	167, 169
1319662	69	1320750	81	1321207	25	2716536	225
1319663	69	1320751	81	1321208	25	2716537	225
1319664	69	1320752	81	1321210	14	2716538	217, 221
1319665	69	1320753	81	1321211	33	2716539	217, 221
1319666	69	1320754	81	1321212	14, 33	2716563	235
1319667	69	1320755	81	1321214	29	2716564	237
1319668	69	1320756	81	1321215	17	2716566	185, 221
1319669	69	1320757	81	1321216	37	2716567	185
1319670	69, 71, 75	1320758	81	1321217	17	2716568	217
1319671	72	1320759	81	1321218	17	2716569	217, 221
1319672	71	1320760	81	1321219	17	2716570	217, 221
1319673	71	1320761	81	1321220	17	2716572	231
1319674	71	1320762	81	1321221	17	2716573	217, 221
1319675	71	1320763	81	1321222	17	2716574	217, 221
1319676	71	1320764	81	1321223	37	2716575	225
1319677	71	1320765	81	1321224	37	2716576	225
1319678	71	1320989	81	1321225	17	2716577	225
1319679	71	1321061	31	1321226	47	2716578	217
1319680	71	1321062	31	1321227	37	2716619	243
1319681	71	1321148	19, 39	1321228	27	2716620	167, 169
1319682	71	1321149	31	1321229	34	2716623	225
1319683	71	1321150	22, 42	1321231	49	2716624	217, 221
1319684	71	1321151	22, 42	1321232	29	2716628	167, 169
1319685	71	1321152	42	1321233	29	2716629	167, 169
1319686	71	1321153	17, 37	1321236	39	2716630	231
1319687	71	1321154	17, 37	1321237	33	2716631	185
1319688	71	1321155	27, 47	1321238	49	2716633	185
1319689	71	1321156	21	1321239	47	2716634	167, 169
1319690	71	1321157	27, 47	1321240	25	2716635	167, 169
1319691	71	1321158	21, 41	1321242	49	2716636	233
1319692	71	1321159	21, 41	1321244	25	2716637	233
1319693	71	1321161	21, 41	1321245	47	2716638	233
1319694	71	1321162	42	1321246	47	2716639	233
1319695	71	1321163	42	1321247	49	2716640	233
1319696	71, 75	1321164	27, 47	1321248	14	2716641	185
1319697	71	1321165	21, 41	1321249	27	2716642	163, 165
1319698	71	1321172	25, 45	1321250	27	2716644	167, 169
1319699	71	1321173	42	1321251	27	2716645	167, 169
1319700	71	1321174	22, 42	1321252	19	2716646	183
1319701	71	1321175	27	1321254	27	2716647	183
1319702	71, 75	1321176	47	1321255	29	2716648	225
1319703	71, 75	1321177	29	1321256	27	2716649	225
1319704	71	1321178	45	1321257	27	2716650	225
1319705	71	1321179	25	1321258	29	2716652	243, 245

SECTION 12 - ATTACHMENTS

2716653.....	243, 245	7085422.....	93	7129121.....	99	7137623.....	113
2716720.....	221	7085501.....	283	7129133.....	99	7137634.....	111
2716735.....	173	7085542.....	151, 153	7129441.....	121, 125	7137664.....	127
2716736.....	175	7085552.....	159	7129521.....	227	7137772.....	145, 147
2716737.....	171	7085571.....	159	7129973.....	93	7137822.....	149
2716752.....	245	7086304.....	277	7130131.....	93	7138038.....	249
2716790.....	165	7086471....	277, 279, 283	7130412.....	115, 117	7138124.....	111
4100181.....	271	7089722.....	179	7130653.....	121, 125	7138173.....	179
4105171.....	271	7090814.....	277	7130663.....	121, 125	7138193.....	145, 147
4105262.....	271	7094562.....	183	7130682.....	255	7138194.....	149
4106561.....	291	7096491.....	115, 117	7130734.....	123	7138209.....	183
4107182.....	287	7097523....	277, 279, 283	7130744.....	123, 127	7138210.....	183
4107702.....	279	7097533....	277, 279, 283	7130773.....	123, 127	7138222.....	159
4107712.....	279	7097543....	277, 279, 283	7130862.....	123	7138224.....	93
4107822.....	287	7110494.....	279	7131003.....	123, 127	7138230.....	93
4107832.....	287	7110694.....	279	7131253.....	93	7138231.....	93
4107901.....	271	7110702.....	279	7131412.....	123, 127	7138242.....	93
4108181.....	271	7110712.....	279	7131952.....	93	7138249.....	97
4108201.....	271	7110722.....	279	7131961.....	265	7138250.....	137
4108302.....	271	7110744.....	291	7131992.....	99	7138264.....	107
4108991.....	271	7111572....	145, 147, 149	7132002.....	93	7138265.....	107
4109041.....	271	7111994.....	279	7132012.....	93	7138275.....	127
4109091.....	271	7112523.....	289	7132111.....	99	7138280.....	107
4109791.....	271	7112533.....	289	7132131.....	99	7138284.....	185
4110116.....	271	7112642.....	289	7132141.....	91	7138288.....	91, 99, 273
4110117.....	271	7113024.....	287	7132751.....	123, 127	7138317.....	139
4110130.....	271	7114112.....	155	7133932.....	231	7138321.....	107
4110131.....	271	7114941.....	289	7133942.....	231	7138336.....	11
4110132.....	271	7116691.....	193	7134453.....	121, 125	7138337.....	11
4110133.....	271	7117204.....	283	7134851.....	155	7138338.....	9
4110137.....	271	7117244.....	283	7134863.....	159	7138339.....	9
4110172.....	271	7117254.....	283	7134873.....	159	7138342.....	107
4110184.....	271	7117264.....	283	7135034.....	255	7138515.....	93
4110226.....	271	7118882.....	159, 277	7135044.....	257	7138530.....	139
4110238.....	271	7118892.....	159, 277	7135413.....	151, 153	7138620.....	105
4110239.....	271	7119341.....	283	7135432 ...	145, 147, 149,	7138623.....	153
4110240.....	271	7119362.....	155, 157	151, 153		7138642.....	145, 147
4110241.....	271	7119372.....	155, 157	7135442 ...	145, 147, 149,	7138656.....	9
5724302....	167, 169, 227,	7120613.....	99	151, 153		7138657.....	11
243, 245		7121422.....	159	7135773.....	193	7138682.....	107
5724742.....	99	7121461.....	149	7135912.....	9, 11, 85	7138686.....	95
5752022.....	105	7121531.....	157	7135922.....	9, 11, 87	7138691.....	141
6604662.....	279	7121543.....	115	7136073.....	167, 243	7138695.....	97
6608621.....	279	7121951.....	91	7136083.....	243	7138736.....	99
6611172.....	255	7124331 ...	105, 151, 153	7136093.....	167	7138756.....	113
6611752.....	279	7124531 ...	123, 127, 141	7136103.....	243	7138757.....	113
6620751.....	107	7125741.....	283	7136113.....	243	7138760.....	9, 11, 83
6620971.....	141	7126172 ...	145, 147, 149,	7136123.....	167	7138766.....	247
70020428.....	281	151, 153		7136133.....	167	7138770.....	247
70022606.....	175	7126182 ...	145, 147, 149,	7136322.....	151, 153	7138773.....	231
70031092.....	179	151, 153		7136342.....	129	7138774.....	231
7024574.....	281	7126662.....	155	7136422.....	183	7138775.....	231
7026744.....	51	7126703.....	93	7136713.....	227	7138776.....	231
7029720.....	69	7126833.....	97	7136742.....	119	7138778.....	247, 249
7057141.....	93, 115, 117,	7127091.....	101	7136794.....	105	7138779.....	247, 249
121, 123, 125, 127		7127102.....	101	7136852.....	147	7138780.....	249
7062922.....	279	7127462.....	91	7136892	193, 247, 249	7138781.....	249
7065482.....	283	7127492.....	91	7137022.....	193	7138782.....	249
7070191.....	283	7127552.....	91	7137082.....	155	7138783.....	249
7075611.....	145, 147	7127562.....	91	7137142 ...	105, 145, 147	7138784.....	185
7077481.....	283	7128602.....	99	7137152.....	121	7138785.....	185
7077501.....	283	7128772.....	277, 283	7137164.....	105, 183	7138790.....	193
7077511.....	283	7128782.....	279	7137333.....	107	7138828.....	107
7083054.....	277	7128792.....	277, 283	7137343.....	107	7138829.....	107
7083922.....	151, 153	7128802 ...	277, 279, 283	7137364.....	127	7138830.....	257
7085073.....	277, 279, 283	7129101.....	99	7137593.....	163	7138831.....	9
7085411.....	283	7129111.....	99	7137603.....	163	7138832.....	9

SECTION 12 - ATTACHMENTS

7138839	123	7150674	261, 267	8035324	235, 237	8035436	131
7138841	127	7150675	267	8035326	235, 237	8035437	131
7138843	107	7150679	261	8035345	195, 199	8035438	131
7138844	113, 123	7150680	261	8035346	195, 199	8035439	131
7138846	113, 127	7150681	261	8035347	195, 199	8035440	131
7138850	99	7150685	261	8035348	195, 199	8035441	131
7138864	121	7150687	261, 267	8035350	201, 203	8035442	131
7138865	125	7150688	261, 267	8035355	201, 203	8035443	131
7138962	127	7150689	261	8035356	205, 207, 209	8035444	131
7138963	123	7150690	261	8035357	205, 207, 209	8035445	131
7138977	157	7150699	261	8035358	201, 203	8035446	131
7138979	157	7150702	261	8035359	205, 207, 209	8035447	131
7138986	157	7150703	261	8035360	201, 203	8035448	131
7139018	149	7150716	261	8035361	201, 203	8035449	131
7139020	149	7150717	261	8035362	201, 203	8035450	131
7139035	139	7150730	262, 267	8035363	203	8035451	131
7139036	139	7150742	265	8035365	205, 207, 209	8035452	131
7139038	247	8024013	271	8035366	205, 207, 209	8035453	131
7139039	249	8024014	271	8035367	201, 203	8035454	131
7139040	249	8025655	281	8035368	201, 203	8035455	131
7139061	107	80304405	27, 47, 51	8035369	201, 203	8035456	131
7139099	139	8032398	97	8035370	201, 203	8035457	131
7139101	139	8032989	213	8035372	205, 207, 209	8035458	131
7139158	145, 147	8032990	213	8035373	205, 207, 209	8035459	131
7139212	225	8032991	213	8035374	205, 207, 209	8035460	131
7139228	245	8032992	213	8035375	205, 207, 209	8035461	131
7139229	245	8032993	213	8035376	205, 207, 209	8035462	131
7139230	169	8032994	213	8035377	201, 203	8035463	131
7139236	169	8032995	213	8035378	201, 203	8035464	131
7139238 ... 77, 91, 97, 99, 183, 273		8033004	83, 85, 87	8035381	195, 199	8035466	131
7139248	105	8033032	139, 141	8035388	139	8035467	131
7139249	105	8033058	131	8035389	139	8035468	131, 133
7139278	169, 245	8033072	131	8035390	135, 137	8035470	111, 131
7139279	245	8033087	133	8035391	135	8035471	131
7139280	169	8033102	135	8035392	135	8035473	131
7139297	105	8033110	135	8035393	135	8035474	133
7139309	151	8033178	101	8035394	135	8035475	133
7139324 ... 105, 145, 147		8033786	281	8035395	135	8035476	133
7139330	145, 147	8033856	135	8035398	141	8035477	133
7139331	145, 147	8034697 ... 199, 201, 203		8035399	141	8035478	133
7139332	11	8034798	131	8035400	141	8035479	133, 137
7139333	11	8034799	131	8035402	141	8035480	133
7139335	105	8034803	133	8035403	141	8035481	133
7139405	145	8034805	133	8035404	141	8035482	133
7139408	107	8034808	133	8035405	141	8035483	133
7139427	107	8034815	135	8035406	139, 141	8035484	133
7139428	108	8035045	205	8035409	135	8035485	133
7139429	145	8035093	189	8035410	137	8035486	133
7139443	169, 245	8035098	97, 273	8035411	135	8035487	133
7139460	95	8035099	97, 273	8035412	139	8035488	133
7139461	95	8035109	85, 87	8035414	133, 139	8035489	133
7139492	261, 267	8035259	189, 191	8035415	133, 139	8035490	129, 133
7139496	267	8035261	189, 191	8035416	133, 137, 139	8035491	133
7139497	262	8035262	189	8035417	139	8035492	137
7139502 ... 105, 145, 147		8035263	189, 191	8035422	139	8035493	137
7139549	107	8035276	257	8035423	139	8035494	137
7139551	107	8035278	91	8035424	139	8035495	137
7139554	145, 147	8035279	97	8035425	139	8035496	137
7139573	9, 11	8035281	239	8035426	139	8035497	137
7139615	265	8035282	239	8035427	139	8035498	137
7139634	271	8035292	99	8035428	139	8035499	137
7139635	271	8035294	129	8035430	139	8035500	133, 137
7139636	271	8035308 ... 171, 173, 179		8035431	139	8035501	133, 137
7139637	271	8035309	171, 179	8035432	139	8035503	137
7139662	265, 267	8035321	179	8035433	139	8035504	137
7150673	267	8035322	235, 237	8035434	139	8035505	137
		8035323	235, 237	8035435	131, 139	8035506	133

SECTION 12 - ATTACHMENTS

8035507.....	133	8035855.....	207	8035925.....	19	8036011.....	115
8035508.....	133	8035856.....	201, 203	8035927.....	19, 39	8036013.....	115
8035509.....	133	8035858.....	251	8035928.....	19	8036014.....	115
8035510.....	133	8035859.....	251	8035929.....	19, 39	8036015.....	115
8035511.....	133	8035860.....	251	8035930.....	19, 39	8036017.....	115
8035523.....	273	8035861.....	281	8035931.....	19, 39	8036018.....	25
8035524.....	129	8035862.....	281	8035932.....	19, 39	8036019.....	239
8035525.....	129	8035863.....	281	8035933.....	19, 39	8036020.....	239
8035526.....	131	8035865.....	285	8035936.....	21, 42	8036074.....	173
8035527.....	129	8035866.....	285	8035939.....	22, 42	8036126.....	139, 141
8035528.....	131	8035867.....	285	8035940.....	22	8036183.....	196, 199
8035529.....	131	8035868.....	285	8035941.....	22	8036194.....	209
8035531.....	137	8035870.....	13	8035943.....	22	8036209.....	261
8035536.....	281	8035871.....	13	8035944.....	21, 41	8036210.....	261
8035546.....	177	8035872.....	13	8035945.....	41	8036212.....	261
8035547.....	177	8035873.....	13	8035946.....	41	8036213.....	261
8035548.....	177	8035874.....	13	8035947.....	41	8036214.....	261
8035549.....	177	8035875.....	13	8035948.....	41	8036215.....	261
8035550.....	177	8035876.....	13	8035949.....	22	8036216.....	261, 267
8035551.....	179	8035877.....	13	8035951.....	21, 41	8036217.....	261, 267
8035552.....	179	8035878.....	13	8035952.....	25	8036218.....	261, 267
8035553.....	179	8035879.....	13	8035954.....	25	8036219.....	261
8035606.....	111, 133	8035880.....	13	8035955.....	25	8036220.....	261
8035721.....	129	8035881.....	13	8035958.....	25	8036221.....	261
8035722.....	131	8035882.....	13	8035959.....	27	8036222.....	261
8035744.....	189, 191	8035883.....	13	8035960.....	27	8036229.....	171, 173, 175
8035745.....	189, 191	8035884.....	13	8035961.....	27	8036230.....	175
8035746.....	189, 191	8035885.....	13	8035962.....	27	8036231.....	175
8035747.....	189, 191	8035886.....	13	8035963.....	27	8036237.....	171
8035757.....	235	8035887.....	13	8035964.....	27	8036239.....	173
8035758.....	235	8035888.....	13	8035965.....	27	8036240.....	173
8035759.....	171	8035889.....	13	8035966.....	27	8036241.....	173
8035760.....	171	8035890.....	13	8035967.....	27	8036245.....	223
8035763.....	175	8035891.....	13	8035968.....	27	8036246.....	223
8035764.....	175	8035892.....	13	8035969.....	27	8036247.....	223
8035769.....	175	8035893.....	13	8035970.....	27	8036248.....	223
8035774.....	187	8035894.....	13	8035971.....	27	8036250.....	77
8035775.....	187	8035895.....	13	8035972.....	27	8036255.....	223
8035777.....	231	8035896.....	13	8035973.....	27, 47	8036256.....	223
8035778.....	83, 85, 87	8035897.....	13	8035974.....	27	8036260.....	195, 199, 205, 207, 209
8035779.....	83	8035898.....	13	8035975.....	27	8036263.....	195, 199
8035781.....	239	8035899.....	13	8035977.....	29, 49	8036271.....	191
8035782.....	239	8035900.....	13	8035978.....	31	8036272.....	111
8035783.....	237	8035901.....	13	8035979.....	31	8036273.....	111, 135
8035784.....	239	8035902.....	13	8035980.....	31	8036274.....	133
8035785.....	239	8035903.....	13	8035981.....	31	8036275.....	111, 137
8035799.....	211	8035904.....	13	8035982.....	33	8036276.....	137
8035803.....	113	8035905.....	13	8035983.....	33	8036278.....	111
8035804.....	113	8035906.....	13	8035984.....	37	8036279.....	111
8035807.....	255	8035907.....	13	8035985.....	37	8036280.....	133
8035830.....	281	8035908.....	13	8035986.....	39	8036281.....	195, 199
8035831.....	285	8035909.....	13	8035987.....	39	8036282.....	195, 199
8035834.....	195, 199	8035910.....	14	8035989.....	39	8036283.....	195, 199
8035835.....	195, 199	8035911.....	14	8035990.....	39	8036284.....	195, 199
8035836.....	195	8035912.....	14	8035992.....	47	8036285.....	195, 199, 201, 203, 205, 207, 209
8035839.....	201	8035913.....	14	8035993.....	47	8036286.....	205, 207, 209
8035840.....	207	8035914.....	14	8035994.....	47	8036287.....	209
8035841.....	195, 199	8035915.....	14	8035995.....	47	8036288.....	239
8035842.....	209	8035916.....	14	8035996.....	47	8036289.....	239
8035843.....	195, 199	8035917.....	14	8035997.....	47	8036290.....	239
8035844.....	195, 199	8035918.....	14	8036002.....	77	8036299.....	141
8035845.....	201, 203, 207, 209	8035919.....	14	8036003.....	77	8036300.....	139
8035846.....	205	8035920.....	14	8036004.....	77	8036301.....	139
8035847.....	207, 209	8035921.....	14	8036005.....	77	8036302.....	139
8035849.....	195, 199	8035922.....	17	8036007.....	201, 203	8036328.....	175
8035850.....	201, 203	8035923.....	17	8036009.....	115		
		8035924.....	19	8036010.....	115		

SECTION 12 - ATTACHMENTS

8036356	187	8270221	91	8303766.....	193	830710693, 97, 107, 115,	
8036451	285	8270620	255	8303769.....	9, 11, 51	117, 261, 267	
8036545	131	8270621	255	8303770.....	283	8307107	91
8036590	175	8272017	91	8303771.....	261, 267	8307109... 101, 107, 127,	
8037206	131, 133	8273022	97	8303772.....	159	139, 255	
8040261	11	8273297	97	8303790.....	91, 101	8307110 91, 107, 111,	
8040262	11	8274022	99, 273	8303798.....	9, 11	257	
8040269	9	8275040	95	8303799.....	101, 119	8307111 107, 255, 265	
8040270	9	8275209	99	8303836.....	99, 119	8307112... 105, 107, 185,	
8050001	105, 145, 147	8275212	95	8303837.....	99, 101	287, 289	
8050007 ...	105, 145, 147,	8275240	95	8303982.....	265, 267	8307113 91, 145, 147	
171		8275247	95	8304006.....	111	8307202 93, 107, 123,	
8050072	173	8275249	95	8304672.....	113	145, 193, 247, 249	
8065062	279, 281	8277161	91	8305002.....	101, 265	8307203... 107, 121, 123,	
8065634	283	8278008	93	8305004....	108, 193, 247,	125, 127, 135, 193, 283	
8080613	91	8278021	91	249		8307204 93, 107, 115,	
8124126	155, 157	8278023	93	8305006.....	135, 193	117, 145, 147, 193,	
8127016	157	8278024	93	8305008.....	111, 193	257, 261, 267	
8127018	155	8278026	121, 125	8305012.....	227, 289	8307206 ... 123, 127, 193,	
8130211 ...	105, 145, 147	8278028	91	8305402.....	101	227	
8160073	101	8278030	91	8305404.....	115, 117	8307211	105
8160610	101	8301456	289	8305439.....	255	8307219	119
8162003	101	8302470	107	8305523.....	129	8307220	185
8180311	93	8303005	145	8305603.....	93, 185, 193,	8307904	159, 279
8205655	285	8303034	123	257		8307912	145, 147
8205656	175	8303538	105	8305619.....	159	8307913	145, 147
8220344	255	8303540	127, 259	8305624....	107, 123, 255,	8307918	159, 279
8220346	255	8303544	119	259		8310002	135
8220356	257, 259	8303581	261	830562693, 97, 105, 107,		8310009... 123, 127, 217,	
8220357 ...	257, 259, 265	8303615	101, 107	115, 117, 123, 145,		221, 225	
8220912	139	8303620	149, 193	147, 183, 261, 267, 283		8310016 123, 127, 255	
8223038	259	830362191, 93, 145, 147,		8305643.....	91, 145, 147,	8310019	155, 157
8223039	259	149, 151, 153		155, 159, 277, 279, 283		8310029	135
8223040	259	8303622 ... 149, 151, 153,		8305644....	107, 159, 193,	8310061	9, 11, 105
8223046	255	261		287, 289		8310067	121, 125
8223047	259	8303624	155, 157	830564591, 93, 115, 117,		8310076	145, 147
8223048	259	8303626 107, 185, 289		155, 157, 169, 245,		8310078	265
8223049	113	8303627	193	255, 257, 261, 267, 283		8310084	9, 11, 83
8223050	259	8303634	279, 283	8305646.....	155, 157	8310085 ... 107, 123, 127,	
8223051	259	8303638	159	8305647.....	145, 147	255	
8223053	255	8303658	227	8305650.....	101	8310090	105
8223054	259	8303666	159	8305906....	107, 121, 125	8310093	159
8223059 ...	259, 265, 267	8303670 97, 107, 115,		8306407.....	243, 245	8310104	93
8223060	259, 265	117, 121, 125		8307002.....	93, 101, 107,	8310109	91
8223061	259	830367591, 97, 107, 145,		127, 139, 145, 167,		8310124	121, 125
8223226	183	147, 185		193, 231, 243, 247,		8310160	279
8223227	183	8303679 ... 145, 147, 151,		249, 259		8310161	279
8223229	257	153		8307003.....	99, 101, 119,	8310164	91, 185
8223231	255	8303681 ... 107, 145, 147,		265		8310195	287
8223232	257	149, 151, 153, 267		8307004.....	93, 107, 121,	8310201	155
8223453	255	8303693 105, 149, 193		123, 125, 127, 167,		8310209	145, 147
8223526	183	8303697	93, 123	169, 193, 217, 221,		8310259	145, 147
8223527	97	8303703 193, 247, 249		225, 233, 243, 245		8310266	159, 277
8223530	257	8303705	231	8307005.....	97, 107, 111,	8310276	159, 277
8225119 ...	259, 265, 267	8303715 ... 167, 169, 217,		113, 145, 147, 149,		8310281	193
8229030	265	221, 225, 243, 245, 279		151, 153, 185, 193,		8310285	105
8229242	259	8303736	139	261, 267		8310289	91
8229243	259	8303739 ... 121, 123, 125,		8307007....	9, 11, 83, 149,	8310301	121, 125
8229244	259	127, 283		155, 157, 185, 227, 289		8310315	113
8229245	259	8303743 93, 163, 167,		8307010.....	145, 147	8310326	219, 223
8229247 ...	259, 265, 267	243, 247, 249		8307023.....	9, 11, 51, 91,	8310327	219, 223
8229252	259	8303744	107	227		8310333	91
8262150	91	8303745	261, 267	8307024....	101, 119, 255	8310334	107
8270134	257	8303746	123, 127	8307025.....	91, 101, 185	8310344	257
8270138	257	8303752 105, 145, 147		8307049.....	9, 11	8310353	123, 127
8270139	257	8303755	227	8307104....	145, 147, 155,	8310358 123, 127, 255	
8270220	91	8303759	233	157, 159		8310359	113

SECTION 12 - ATTACHMENTS

8310360.....	123, 127	8430081	185, 225, 249	8660012	107	8770114....	167, 169, 183,
8310362.....	265	8430092	99	8700116	101		185, 217, 221, 225,
8310366.....	255	8430093	99	8702157	107		231, 247, 249
8310372.....	107, 113	8430094	99	8702160	107	8770115....	167, 169, 217,
8310374.....	123	8430095	99	8720016	113		221, 225, 233
8310375.....	121, 125	8440156	189	8720017	113	8770116....	185, 217, 221,
8310376.....	267	8440162	191	8721029	113, 217, 221		233, 243, 245, 247, 249
8310380.....	193	8464013	183	8750012	217, 221, 225	8770117....	167, 169, 217,
8310382.....	193, 247, 249	8466306	123, 127	8750015 ...	217, 221, 225,		221
8310402.....	123, 127	8467017	255	233		8770118.....	167, 169
8310417.....	105	8500203	265	8750016	217, 221, 225	8770121.....	225
8310424.....	91	8520001 ...	105, 151, 153,	8750017 ...	217, 221, 225,	8770124....	233, 243, 245,
8310439.....	107	155		247, 249			247, 249
8310453.....	243, 245	8520003 ...	105, 145, 147,	8750018	247, 249	8770125....	167, 169, 217,
8310464.....	9, 11, 83	157		8750019	247, 249		221, 225, 243, 245,
8310479.....	9, 11	8520013 ...	159, 171, 173,	8750020	247, 249		247, 249
8310480.....	9, 11	179		8750021	247, 249	8770126.....	183
8310481.....	9, 11, 105	8520021	147, 179	8750022	255, 257	8770127....	185, 217, 221,
8310484.....	193, 247, 249	8522012 ...	145, 147, 151,	8750026	255, 257		231, 233
8310490.....	113	153, 155, 157, 273		8750027	243, 245	8770129....	167, 169, 217,
8310491.....	113	8526007 ...	145, 147, 149,	8760110	283		221, 243, 245
8310492.....	113	151, 153, 273		8760113	279	8770130.....	217, 221
8310496.....	9, 11	8526011 ...	171, 173, 175,	8760117	283	8770131.....	217, 221
8310498.....	139	177, 179, 235, 237,		8760311	279	8770132.....	185
8310525.....	111	273, 281, 285		8760313	279	8770136.....	243, 245
8310531.....	145, 147	8526036	175, 281	8760409	279	8770154.....	247, 249
8310532.....	145, 147	8526042 ...	123, 127, 273	8760419	183, 195, 209	8770155.....	225, 231
8310549.....	145, 147	8526052	81, 273	8760420	239	8770160.....	79
8310550.....	145, 147	8526053	99, 273	8760451	211	8770163.....	163, 165
8310559.....	265	8526056	81, 273	8760475	279	8770166.....	185
8320262.....	91, 273	8528071	273	8760535	247, 249	8770167.....	167, 169
8320265.....	183, 273	8528074	273	8760545	249	8770168....	167, 169, 217,
8320270.....	99, 273	8528080	273	8769122 ...	167, 169, 243,		221
8322036.....	99	8528101	273	245		8770169.....	225
8324029.....	183	8528105	273	8769123 ...	217, 221, 225,	8770175.....	225
8340034.....	101	8528106	273	233, 243, 245		8770176.....	225
8340035.....	107	8530030	185	8769128 ...	167, 169, 217,	8770183.....	225
8342416.....	107	8540023	139	221, 225, 243, 245		8770186.....	233, 249
8342425.....	107	8541404	99	8769132	279	8776578.....	221
8342808.....	107, 131	8541433	283	8769153	167, 243	8780036.....	11
8360005.....	139	8546407	185	8769154	167, 243	8780046.....	9
8360015.....	139	8551001	97	8770001	183	8780050.....	9, 11
8382017.....	287	8580118	113	8770012	279	8786514.....	9, 11
8405009.....	99	8580315	279	8770016	279	8841041.....	9, 11, 81
8405104.....	93, 99	8580420	93	8770066	231, 247, 249	8841042.....	9, 11
8405202.....	99	8580421 ...	123, 127, 255	8770068 ...	185, 221, 225,	8864019.....	115, 117
8405203.....	93	8584001 ...	135, 139, 255,	231, 233, 247, 249		8864053.....	115
8405209.....	185	262, 267, 279, 283		8770070	79, 163, 165,	8864055.....	117
8405306.....	97	8584018 ...	135, 139, 255,	185		8864056.....	117
8405307.....	97	262, 267		8770075 ...	167, 169, 243,	8864057.....	115
8405404.....	97	8630003	225	245		8864058.....	115, 117
8410009.....	139	8630010	123, 127	8770079	163, 165	8864060.....	117
8410013.....	99	8630016	185	8770080	185	8866341.....	93
8420053....	243, 245, 279,	8640017	219, 223	8770083	185	8866492.....	135
283		8640025	209	8770085	163, 165	8866514.....	119
8420055....	243, 245, 279,	8640028	279, 283	8770086	163, 165	8866515.....	119
283		8640029	279, 283	8770095	185	8866516.....	119
8420229.....	99	8640032	279, 283	8770096	185	8866529.....	119
8430005....	243, 245, 279,	8640123	185	8770102	185, 217	8866530.....	119
283		8640208	185	8770105 ...	221, 225, 233	8880218.....	9, 11, 85, 87
8430006....	243, 245, 279,	8642001	283	8770106 ...	193, 225, 231,	8902111.....	219
283		8642207	279	233, 247, 249		8902175....	225, 247, 249
8430032....	185, 225, 249	8642224	151, 153	8770107	231	8902180....	193, 249, 251
8430033.....	185	8642235	283	8770108	231, 247, 249	8902182....	193, 211, 249
8430043.....	249	8642237	155, 157	8770109	225	8902183....	193, 199, 249
8430048.....	139	8660010	99	8770111	225, 231	8902191....	193, 247, 249
8430072.....	99	8660011	99	8770112	225	8902195.....	211

SECTION 12 - ATTACHMENTS

8902196	185, 213	8902271	171, 173	8902695.....	211	8990122	123
8902197	219, 223	8902274	225, 227	8902696.....	213	8990147	127
8902200	185, 187	8902511	285	8902697.....	213		
8902201	193, 195	8902693	211, 251	8902698.....	213		
8902202	223	8902694	211, 251	8902700.....	211		



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