



Form No. 3398-131 Rev B

Count on it.

Parts Catalog

4050 Directional Drill with Cab

Model No. 23899—Serial No. 315000001 and Up



Ordering Replacement Parts

To order replacement parts, please supply the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part individually. Reference numbers of this type appear in illustration and in parts lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

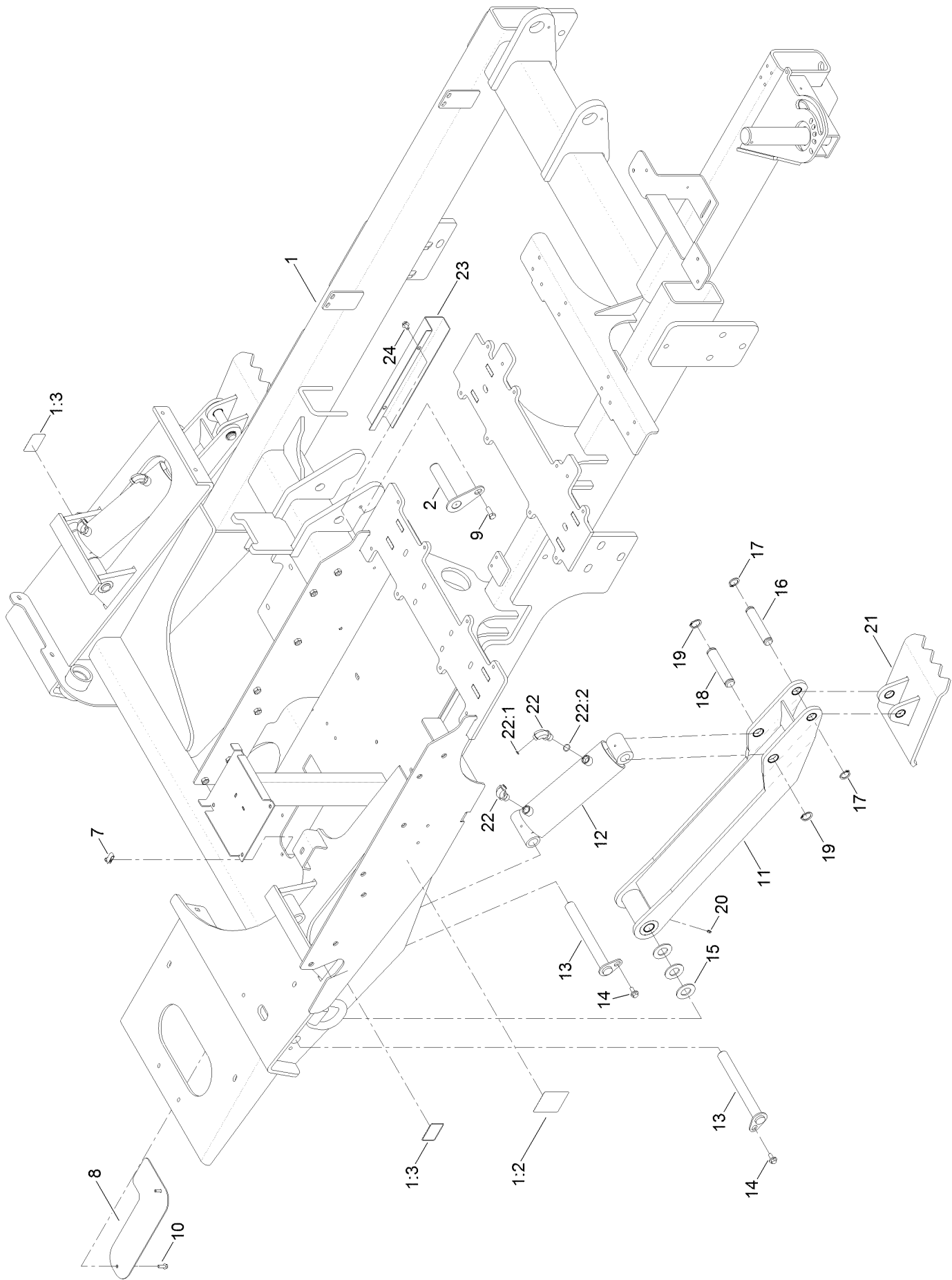
Contents

Frame Assembly	6
Hydraulic Cylinder Assembly No. AU116285	8
Control Box Assembly	10
Track Assembly	12
Hydraulic Fuel Tank and Fitting Assembly	14
Hydraulic Tank Assembly No. AU116143	16
Fuel Tank and Hose Assembly	18
Fuel Tank Assembly No. 121-7535	20
Engine and Mounting Assembly	22
Remote Mounted Engine Parts Box Assembly	24
Fuel Filter Assembly No. 127-5254	26
Hydraulic Pump Assembly	28
Hydraulic Pump Assembly No. 136-1499	30
Hydraulic Pump Assembly No. AU116306	32
Hydraulic Pump Assembly No. AU116314	34
Thrust Frame Assembly	36
Hydraulic Cylinder Assembly No. AU116296	38
Thrust Frame Hose Carrier Assembly	40
Planetary, Rod Guide and Stakedown Cage Assembly	42
Stakedown Cage Assembly No. 125-6512	44
Planetary Gearbox Assembly No. AU8GB80063	46
Hydraulic Motor Assembly No. AU8HM24048	48
Hydraulic Cylinder Assembly No. AU8HC25036	50
Carriage and Rotary Assembly	52
Hydraulic Motor Assembly No. AU115604	54
Rotary Assembly	56
Rotary Box Assembly No. 133-6208-03	58
Planetary Gearbox Assembly No. AU8GB80064	60
Hydraulic Motor Assembly No. AU8HM50016	62
Carriage Guard and Mounting Assembly	64
Spike Clipper Manifold Assembly No. 127-0886	66
Front Wrench Assembly	68
Hydraulic Cylinder Assembly No. AU116939	70
Hydraulic Cylinder Assembly No. AU8HC10007	72
Rod Box Assembly	74
Hydraulic Cylinder Assembly No. AU118214	76
Rod Loader Cam Assembly	78
Hydraulic Cylinder Assembly No. AU120606	80
Hood Assembly	82
Bulkhead Assembly No. 127-5263	84
Front Hood Assembly No. 136-1554	86
Rear Hood Assembly No. AU118302	88
Operator Platform Assembly	90
Operator Console Assembly No. 127-0900	92
Operator Console Assembly	94
9 Section and 4 Spool Hydraulic Valve Assembly	96
9 Section Hydraulic Valve Assembly No. AU111494	98
Stakedown Valve Assembly No. AU8HV80159	100
Hydraulic Valve Assembly	102
3 Spool Hydraulic Valve Assembly No. AU8HV80153	104
5-Section Hydraulic Valve Assembly No. AU121285	106
Electrical Assembly	108
ZapAlert Ground Stake Relocation Assembly No. 131-9019	110
Travel Pendant and Life Jacket Assembly	112

Contents (continued)

Travel Pendant Assembly No. 131-9036	114
Life Jacket Assembly No. 125-1628	116
Tool Joint Lube Applicator Assembly	118
Grease Pump Assembly No. AU108837	120
Rod Loader Assembly	122
Cooling Package Assembly	124
Cooler Assembly No. 127-0943	126
Hydraulic Motor Assembly No. AU118007	128
Cooling Package Hose and Clamp Assembly	130
Engine Intake and Exhaust Assembly	132
3 Spool Hydraulic Valve Plumbing Assembly	134
Hydraulic Tank Hose Plumbing Assembly	136
Track Pod Hydraulic Plumbing Assembly	138
Hydraulic Pump Hose Assembly No. 1	140
Hydraulic Pump Hose Assembly No. 2	142
Hydraulic Pump Hose Assembly No. 3	144
Hydraulic Pump Hose Assembly No. 4	146
Thrust Frame Hydraulic Hose Assembly No. 1	148
Thrust Frame Hydraulic Hose Assembly No. 2	150
Thrust Frame Hydraulic Hose Assembly No. 3	152
Thrust Frame Hydraulic Hose Assembly No. 4	154
Thrust Frame Hydraulic Hose Assembly No. 5	156
Thrust Frame Hydraulic Hose Assembly No. 6	158
Thrust Frame Hydraulic Hose Assembly No. 7	160
Mud Pump Assembly	162
2 Inch Ball Valve Assembly No. AU6HV29033	164
Water Shutoff Valve Assembly No. AU8HV29033	166
Hydraulic Motor Assembly No. AU117459	168
Operator Cab Assembly No. 1	170
Operator Cab Assembly No. 2	172
Cab Electrical Assembly	174
Wash Wand, Cylinder Lockout, Strainer and Split Wiper Assembly	176
Cylinder Lockout Assembly No. AU114336	178
Wash Down Wand Assembly No. 127-0991	180
Attachments and Accessories	182

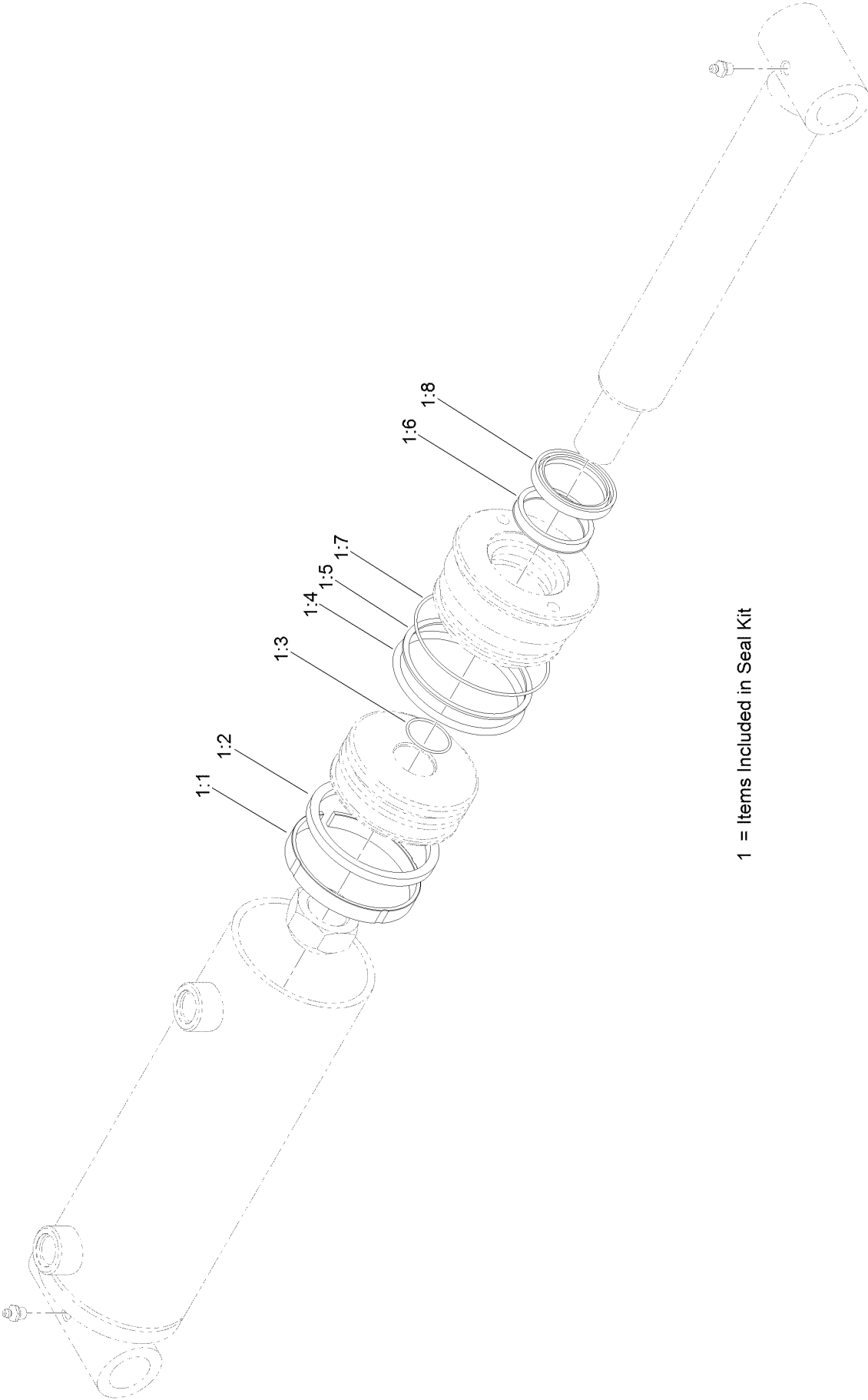
Frame Assembly



Frame Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0923	1	Frame ASM	15	AU496-11131	6	Washer-Hardened
1:2	125-6107	1	Decal-Warning, Crushing	16	AUH434379	2	Pin (Stabilizer Pad End)
1:3	125-6139	2	Decal-Lift/Tie Down	17	100-6785	4	Ring-Retaining
2	AU111271	1	Pin-Dipper Cylinder To Boom	18	AUH434380	2	Pin-Stabilizer (Cylinder Rod End)
7	AU100862	2	Nut-U	19	AU103-16125	4	Ring-Retaining
8	AU122040-03	1	Cover-Valve, 5 Section	20	302-57	2	Fitting-Grease
9	106-0378	1	Screw-HH	21	AU120109-03	2	Foot-Stabilizer
10	33104-025	2	Screw-HHF	22	340-130	4	Fitting-Elbow, 90
11	AU116295-03	2	Stabilizer	22:1	237-22	1	O-Ring
12	AU116285	2	HYD Cylinder ASM	22:2	237-80	1	O-Ring
13	AU116290	4	Pin-W/Flag	23	AU130072-03	1	Plate-Guard, Wire Harness
14	33106-025	4	Screw-HHF	24	33105-016	2	Screw-HHF

Hydraulic Cylinder Assembly No. AU116285



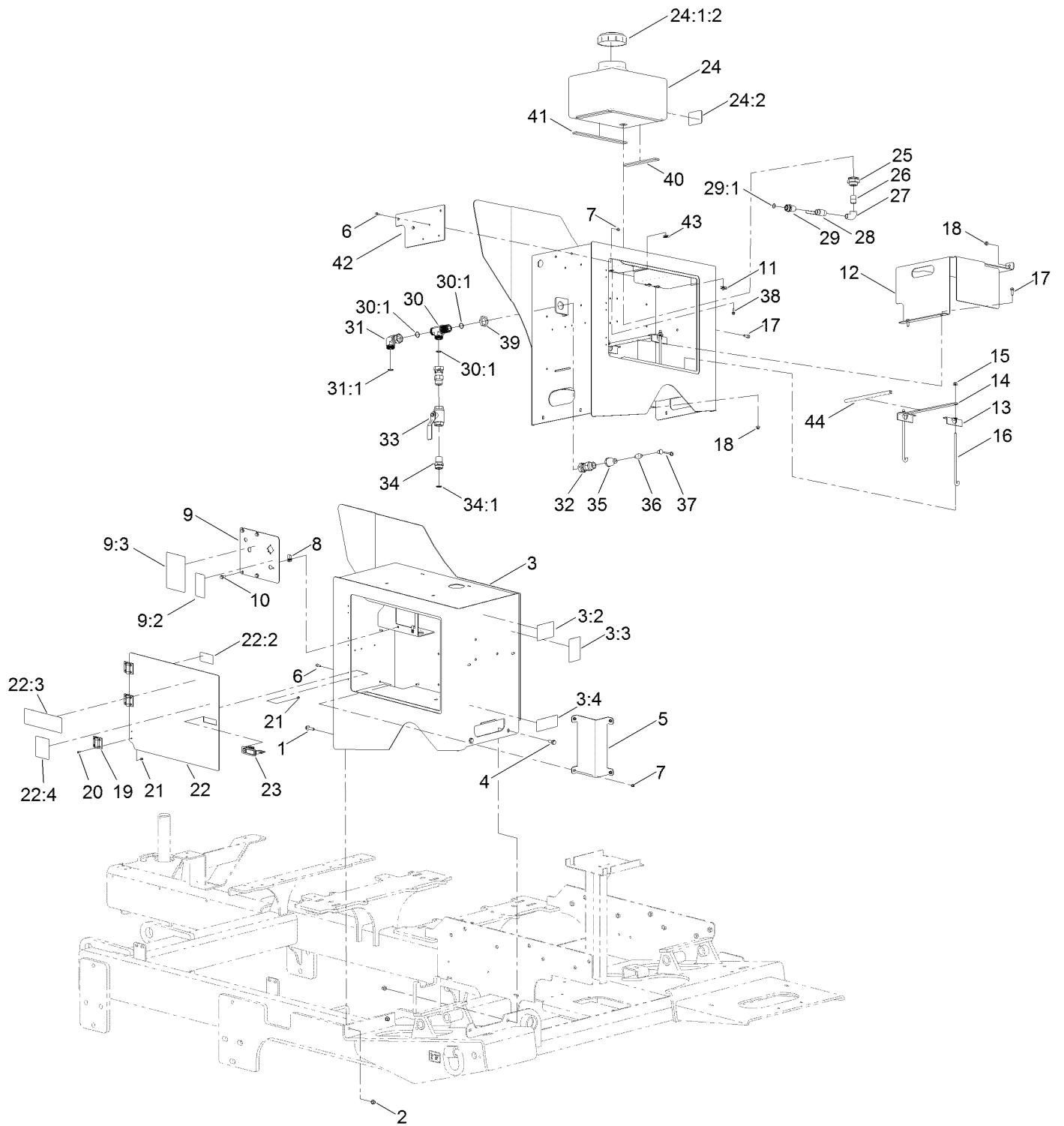
1 = Items Included in Seal Kit

Hydraulic Cylinder Assembly No. AU116285 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU8HC40017-1	1	Seal Kit	1:5		1	Washer-Backup ●
1:1		1	Ring-Bearing ●	1:6		1	Cup-U ●
1:2		1	Teflon Seal ASM ●	1:7		1	O-Ring ●
1:3		1	O-Ring ●	1:8		1	Wiper ●
1:4		1	O-Ring ●				

● Not serviced separately

Control Box Assembly



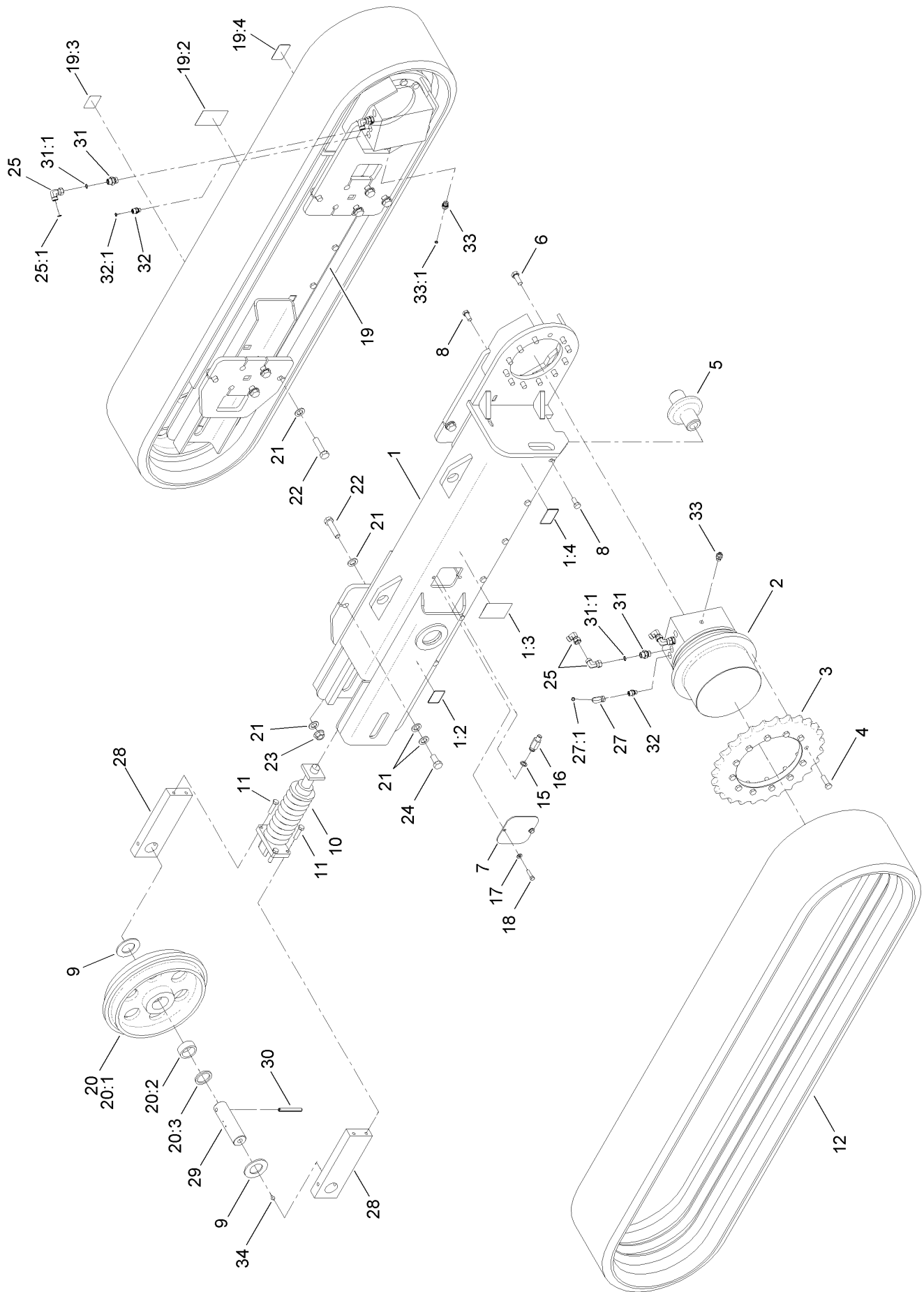
Control Box Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU100331	2	Screw-HHF	23	AU50GB2302	1	Latch-Trigger, Raised (W/Lock)
2	103-9511	4	Nut-Lock, NI	23:1	131-0148	1	Key-Replacement ●
3	127-0925	1	Control Box ASM	24	127-0927	1	Antifreeze Tank ASM
3:2	125-6120	1	Decal-Raise And Lower	24:1		1	Tank ● ■
3:3	125-6118	1	Decal-Danger, Back Up	24:1:2	127-0877	1	Lid-Tank
3:4	125-6128	1	Decal-Warning, Hydraulic Pressure	24:2	125-6137	1	Decal-Antifreeze
4	33105-030	2	Screw-HHF	25	AU20MC8508	1	Fitting-Tank, Bulkhead (Plastic)
5	AU117627-03	1	Plate-Corner, Console	26	AU221-1211	1	Nipple-Straight
6	33103-020	6	Screw-HHF	27	AU221-1415	1	Elbow-Street, 90 DEG
7	81-0130	6	Nut-Flange, NI	28	AU8HV21012	1	Valve-Ball
8	AU100862	4	Nut-U	29	AU8OA11212	1	Fitting-Straight
9	130-4527	1	Control Plate ASM	29:1	237-58	1	O-Ring
9:2	125-6157	1	Decal-Disconnect, Battery	30	92-7550	1	Fitting-Tee, Bulkhead
9:3	125-6141	1	Decal-Rear Controls Overlay	30:1	340-65	3	O-Ring
10	33104-020	4	Screw-HHF	31	92-7645	1	Fitting-Swivel, 90 DEG
11	AU100861	3	Nut-U	31:1	340-65	1	O-Ring
12	AU117625-03	1	Plate-Cover	32	AU8OA65016	2	Fitting-Straight
13	AUD125079	4	Angle-Holddown, Battery	33	AU8HV22016	1	Valve-Ball
14	AU117616-03	2	Plate-Hold Down, Battery	34	AU8OA11616	1	Fitting-Straight
15	104-8301	4	Nut-Flange, NI	34:1	340-65	1	O-Ring
16	AUH436311	4	Bolt-Holddown, Battery	35	AU8PC11604	1	Fitting-Reducer
17	33104-025	4	Screw-HHF	36	AU8QD55204	1	Nipple-Quick Disconnect
18	104-3082	4	Nut-Lock, HHF	37	130-4503	1	Cap-Dust
19	AU123695	3	Hinge	38	3234-4	4	Screw-HHF
20	1-803071	12	Screw	39	340-128	1	Nut-Bulkhead
21	120-4578	12	Nut-HF	40	127-0975	2	Strip-Seal
22	127-0924	1	Door ASM	41	127-0974	2	Strip-Seal
22:2	125-8473	1	Decal-Warning, Battery	42	130-4451-03	1	Plate-Lockout, Cylinder
22:3	125-6113	1	Decal-Safety	43	AU108120	2	Nut-U
22:4	125-6117	1	Decal-Danger, No Riders (Rear)	44	127-1293	2	Trim-Battery

● Not illustrated

■ Not serviced separately

Track Assembly

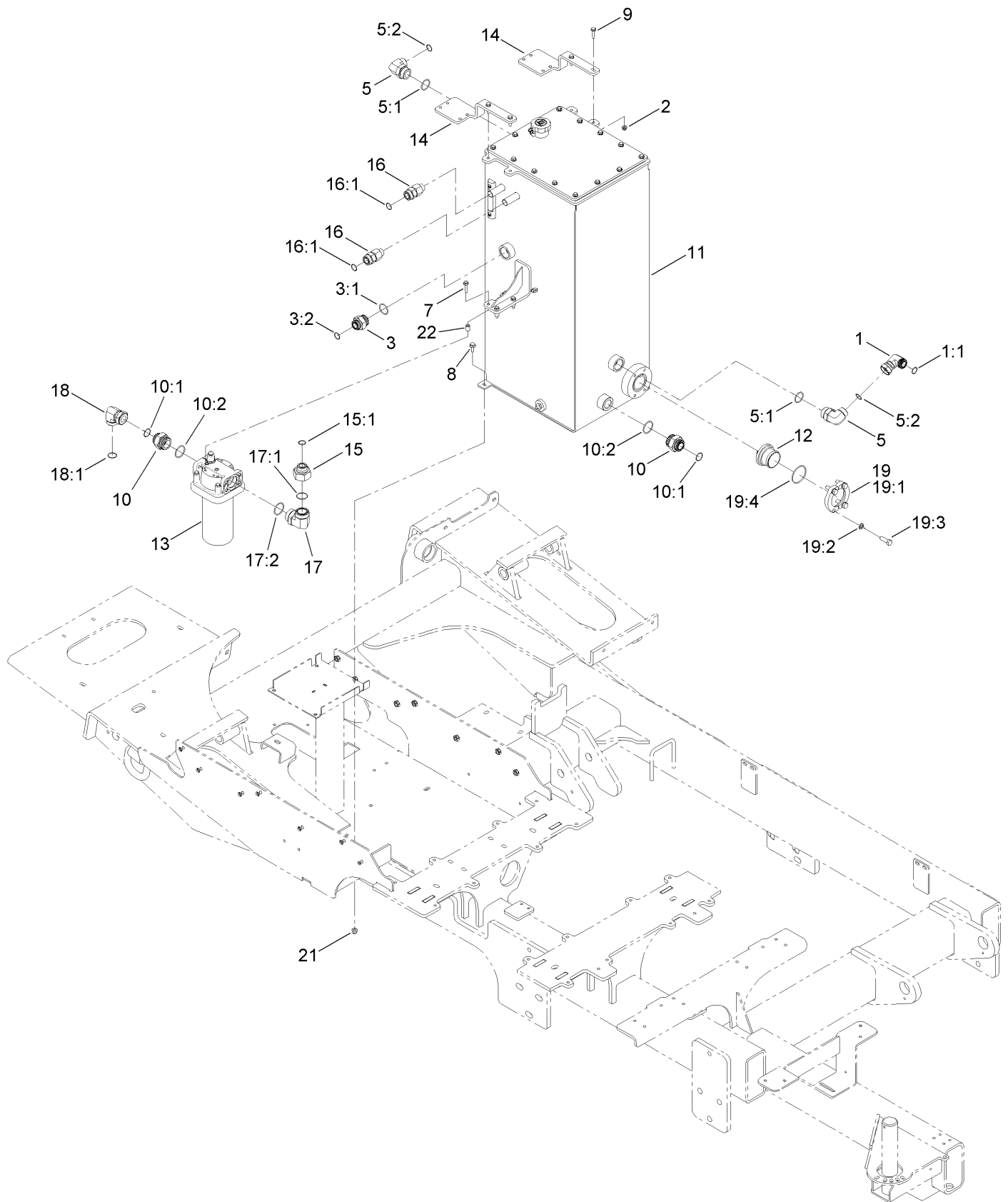


Track Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0929	1	RH Track Pod ASM	19:4	125-6139	1	Decal-Lift/Tie Down
1:2	125-6694	1	Decal-Tie Down	20	127-0960	2	Idler ASM
1:3	125-6108	1	Decal-Warning, Thrown Objects	20:1	AU32GB2410-03	1	Sprocket-Idler
1:4	125-6139	1	Decal-Lift/Tie Down	20:2	AUH748111	2	Bearing
2	AU8GB85017	2	Planetary Gearbox ASM	20:3	AU8HS11032	2	Seal-Shaft
3	AU30DD2424-03	2	Sprocket-Track Drive, 27T	21	103-0357	32	Washer
4	AU814-14045	24	Screw-HH	22	328-25	12	Screw-HH
5	AU30DD2434	12	Roller-Track	23	32128-45	12	Nut-HHF
6	AU814-16040	24	Screw-HH	24	AU426-1224	4	Bolt
7	AU32GB2413-03	2	Cover-Access Hole	25	94-6031	6	Fitting-HYD
8	AU814-14030	24	Screw-HH	25:1	237-30	1	O-Ring
9	AU8CF90032	4	Bearing-Thrust	27	340-159	1	Fitting-HYD, 90 DEG
10	AU32GB2412	2	Tensioner-Track	27:1	237-22	2	O-Ring
10:1	AU109951	1	Seal-U ●	28	AU32GB2408-03	4	Slider-Tensioner, Track Drive
10:2	AU109952	1	Seal-Wiper ●	29	AU32GB2409	2	Pin-Axle
11	AU426-832	8	Bolt	30	AU8CP31631	2	Pin-Slotted, Spring
12	AU32GB2414	2	Track-Rubber	31	127-3875	4	Fitting-Straight
15	AU30-807L-1059	2	Seal-O Ring	31:1	237-30	1	O-Ring
16	AU30-807L-1060	2	Valve-Grease	32	127-3874	2	Fitting-Straight
17	3256-24	4	Washer-Flat	32:1	237-22	1	O-Ring
18	323-43	4	Screw-HH	33	127-3873	2	Fitting-Straight
19	127-0928	1	LH Track Pod ASM	33:1	237-21	1	O-Ring
19:2	125-6108	1	Decal-Warning, Thrown Objects	34	302-2	2	Fitting-Grease
19:3	125-6694	1	Decal-Tie Down				

● Not illustrated

Hydraulic Fuel Tank and Fitting Assembly



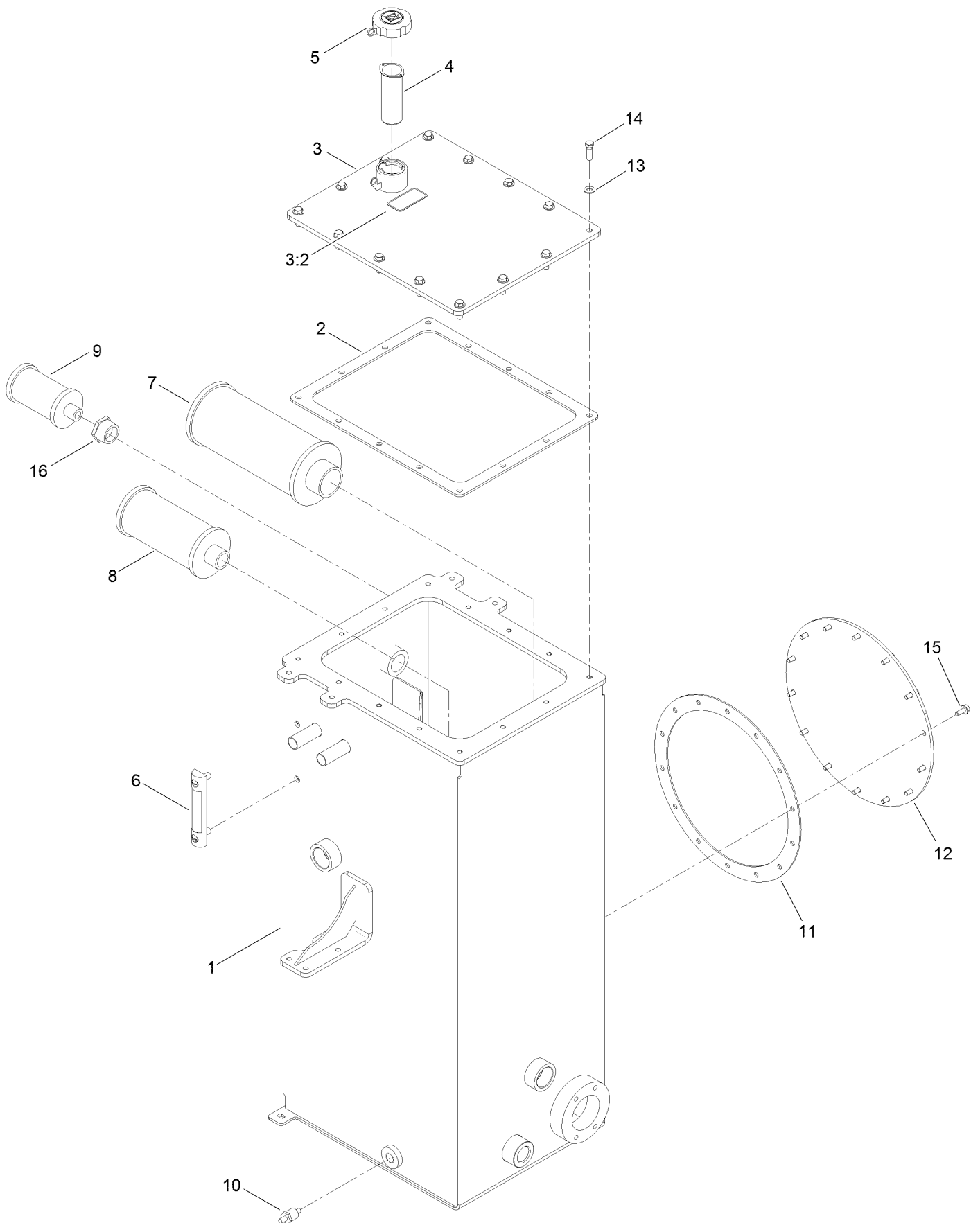
Hydraulic Fuel Tank and Fitting Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	92-7645	1	Fitting-Swivel, 90 DEG	13:2	133-6228	1	Indicator ●
1:1	340-65	1	O-Ring	13:3	133-6229	1	Filter Element ●
2	104-3082	4	Nut-Lock, HHF	14	AU123439-03	2	Mount-Plate
3	340-80	1	Fitting-Straight	15	AU8OA81624	1	Fitting-Reducer
3:1	237-101	1	O-Ring	15:1	340-65	1	O-Ring
3:2	340-65	1	O-Ring	16	AU8OAB1616	2	Fitting-Straight
5	340-79	2	Adapter	16:1	340-65	1	O-Ring
5:1	237-101	1	O-Ring	17	AU8OL32424	1	Fitting-Elbow, 90
5:2	340-65	1	O-Ring	17:1	340-63	1	O Ring
7	112-9318	4	Screw-HHF, Locking	17:2	340-136	1	O-Ring
8	33105-025	3	Screw-HHF	18	AU8OL82020	1	Fitting-Elbow, 90
9	33104-035	4	Screw-HHF	18:1	340-64	1	O-Ring
10	AU8OA32024	2	Fitting-Straight	19	AU91-FF593-40	1	Split Flange Kit
10:1	340-64	1	O-Ring	19:1		2	Flange ■
10:2	340-136	1	O-Ring	19:2	3253-7	4	Washer-Lock
11	AU116143	1	HYD Tank ASM	19:3	121-1524	4	Screw-HH
12	AU117686	1	Insert	19:4	127-0980	1	O-Ring
13	AU118533	1	Filter-HYD, Return	21	103-9511	3	Nut-Lock, NI
13:1	133-6227	1	Seal Kit ●	22	115-1451	4	Spacer-Wheel

● Not illustrated

■ Not serviced separately

Hydraulic Tank Assembly No. AU116143

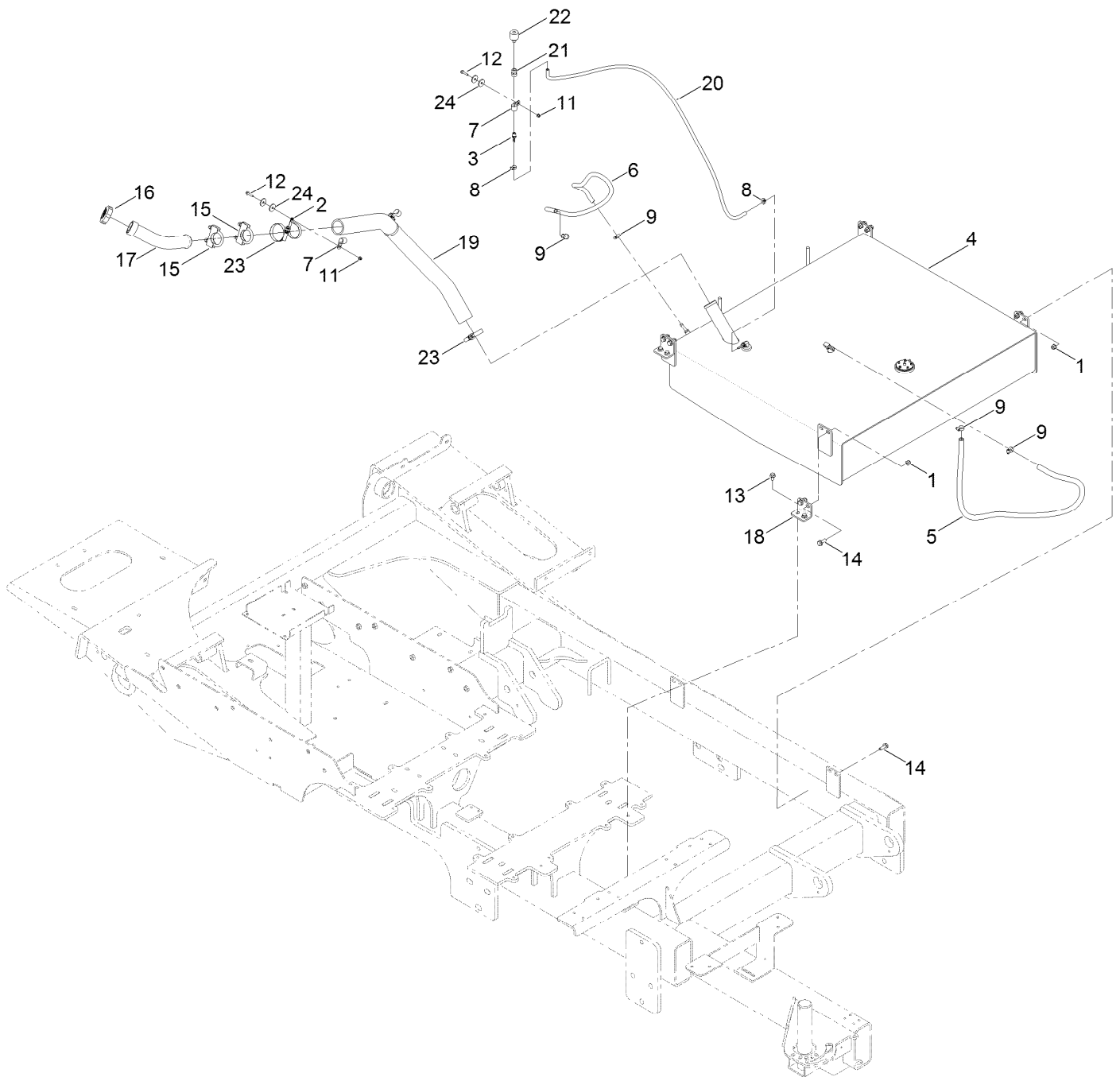


Hydraulic Tank Assembly No. AU116143 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU116595	1	Tank-HYD
2	AU117202	1	Gasket-Cover
3	127-0930	1	HYD Tank Cover ASM
3:2	125-8483	1	Decal-HYD Fluid
4	AU101238	1	Filter-Screen, Mesh
5	AU105820	1	Cap-HYD Fluid (W/ Lock)
6	AUL116247	1	Gauge-Sight
7	AU116600	1	Strainer-Nipple
8	AU116599	1	Strainer-Suction

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
9	AU116598	1	Strainer-Nipple
10	AU30-460-8006	1	Sender-Temperature, Water
11	AU122311	1	Gasket-HYD, Tank
12	AU122304-03	1	Cover-HYD, Tank
13	48-9220	14	Washer
14	323-7	14	Screw-HH
15	33104-020	14	Screw-HHF
16	AU221-70	1	Fitting-Reducer

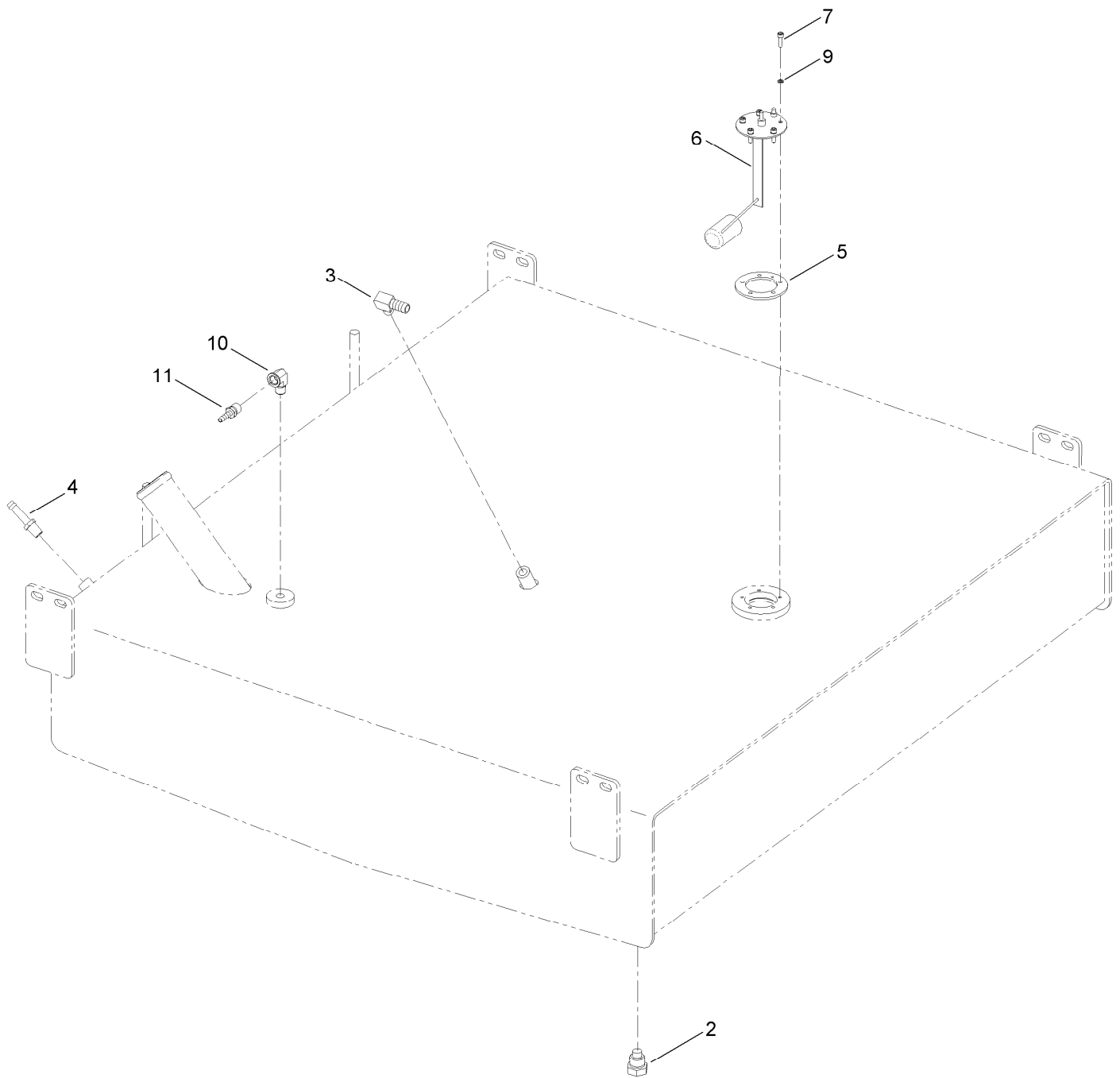
Fuel Tank and Hose Assembly



Fuel Tank and Hose Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	103-9511	8	Nut-Lock, NI	14	33105-030	8	Screw-HHF
2	107-1865	2	R-Clamp	15	AU111838	2	Bolt-U, Clamp
3	115-1447	1	Fitting-Straight	16	AU117630	1	Cap-Fuel (W/Lock)
4	121-7535	1	Fuel Tank ASM	17	AU118832-03	1	Neck-Filler - Fuel
5	127-0945	1	Hose-Fuel	18	AU119508-03	2	Plate-Mounting, Tank
6	127-0946	1	Hose-Fuel	19	AU124968	1	Hose-Fuel, Tank Fill
7	2412-4	3	Clamp	20	107-9298	1	Hose-Fuel
8	2412-108	2	Clamp-Worm	21	AU217-1101	1	Coupling-Pipe (NPTF)
9	2412-36	4	Clamp-Hose	22	AU31543	1	Breather
11	81-0130	3	Nut-Flange, NI	23	104-9240	2	Clamp-Hose
12	33103-030	3	Screw-HHF	24	105-3048	6	Washer-Flat
13	33105-020	4	Screw-HHF				

Fuel Tank Assembly No. 121-7535

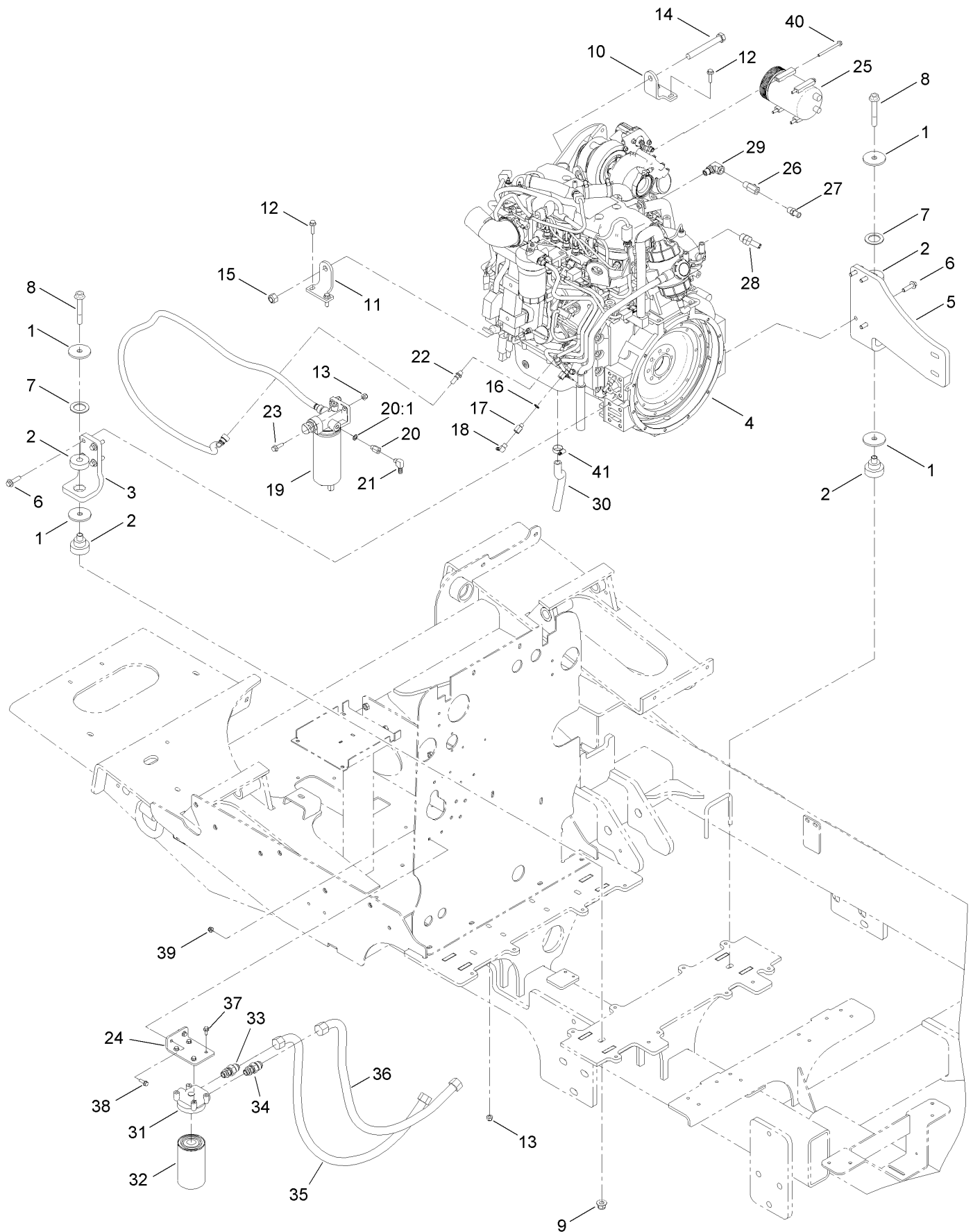


Fuel Tank Assembly No. 121-7535 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	AU119908	1	Plug-Hex, Magnetic
3	127-3870	1	Fitting-Elbow, 90
4	AU217-151	1	Stem-Straight, Bead
5	AU528359R4	1	Gasket-Sending Unit
6	AU117631	1	Sender-Fuel

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
7	3273-26	5	Screw-HSH
9	3253-17	5	Washer-Lock
10	125-9088	1	Fitting-Elbow, 90
11	115-1447	1	Fitting-Straight

Engine and Mounting Assembly



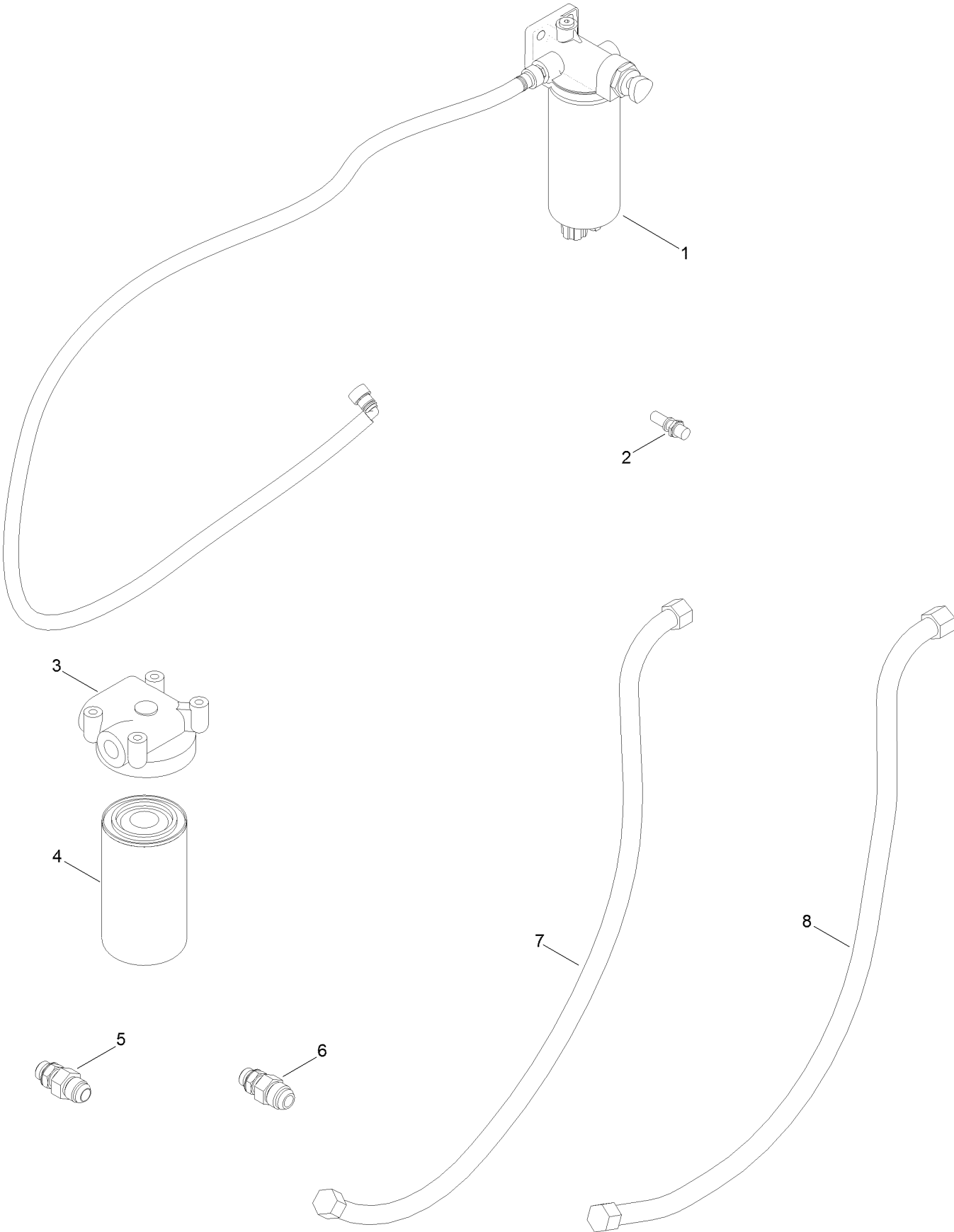
Engine and Mounting Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119802	4	Washer	18	354-93	1	Fitting-Elbow, 90
2	AU117690	2	Isolator-Mount, Universal	19	127-5254	1	Fuel Filter ASM
3	AU116259-03	1	Mount-Engine, Front (RH)	20	AU123748	1	Fitting-Reducer
4		1	Engine-Qsb4, Tier 4I ■	20:1	AU121717	1	Seal-Fitting, Fuel
4:3	131-3447	1	Remote Mounted Engine	21	127-3870	1	Fitting-Elbow, 90
			Parts Box ●	22	127-5252	1	Fitting-Fuel
4:4	131-7361	1	Water Pump ●	23	33105-035	2	Screw-HHF
4:5	131-7354	1	Alternator ●	24	AU130496-03	1	Plate-Mounting, Filter
4:6	131-7355	1	Belt ●	25	AU130666	1	Compressor-AC
4:7	AU119491	1	Heater-Coolant/Block, 12V ●	26	AU125952	1	Valve-Ball
4:8	131-7356	1	Breather-Crankcase ●	27	108-0454	1	Fitting-Straight
4:9	131-7359	1	Starter ●	28	127-5280	1	Fitting-Elbow, 45
4:10	131-7360	1	Thermostat ●	29	127-5279	1	Fitting-Elbow, 90
5	AU117688-03	1	Mount-Engine, Front (LH)	30	AU122422	1	Hose-Drain, Oil
6	AU100347	8	Screw-HHF	31	127-0881	1	Head-Filter, Oil
7	AU117984	2	Spacer-Isolator	32	127-0880	1	Filter-Oil
8	AU100368	2	Screw-Flange	33	127-0882	1	Fitting-Oil
9	AU100529	2	Nut-HHF	34	127-0883	1	Fitting-Oil
10	AU130260-03	1	Mount-Engine	35	127-0884	1	Hose-Oil
11	AU130261-03	1	Mount-Engine	36	127-0885	1	Hose-Oil
12	33105-040	4	Screw-HHF	37	33104-020	4	Screw-HHF
13	103-9511	6	Nut-Lock, NI	38	33104-025	2	Screw-HHF
14	AU426-1296	1	Screw-HH	39	104-3082	2	Nut-Lock, HHF
15	120-7252	1	Nut-Lock	40	AU100328	4	Screw-HHF
16	AU121717	1	Seal-Fitting, Fuel	41	2412-129	1	Clamp-Hose
17	AU120770	1	Fitting-Reducer				

● Not illustrated

■ Not serviced separately

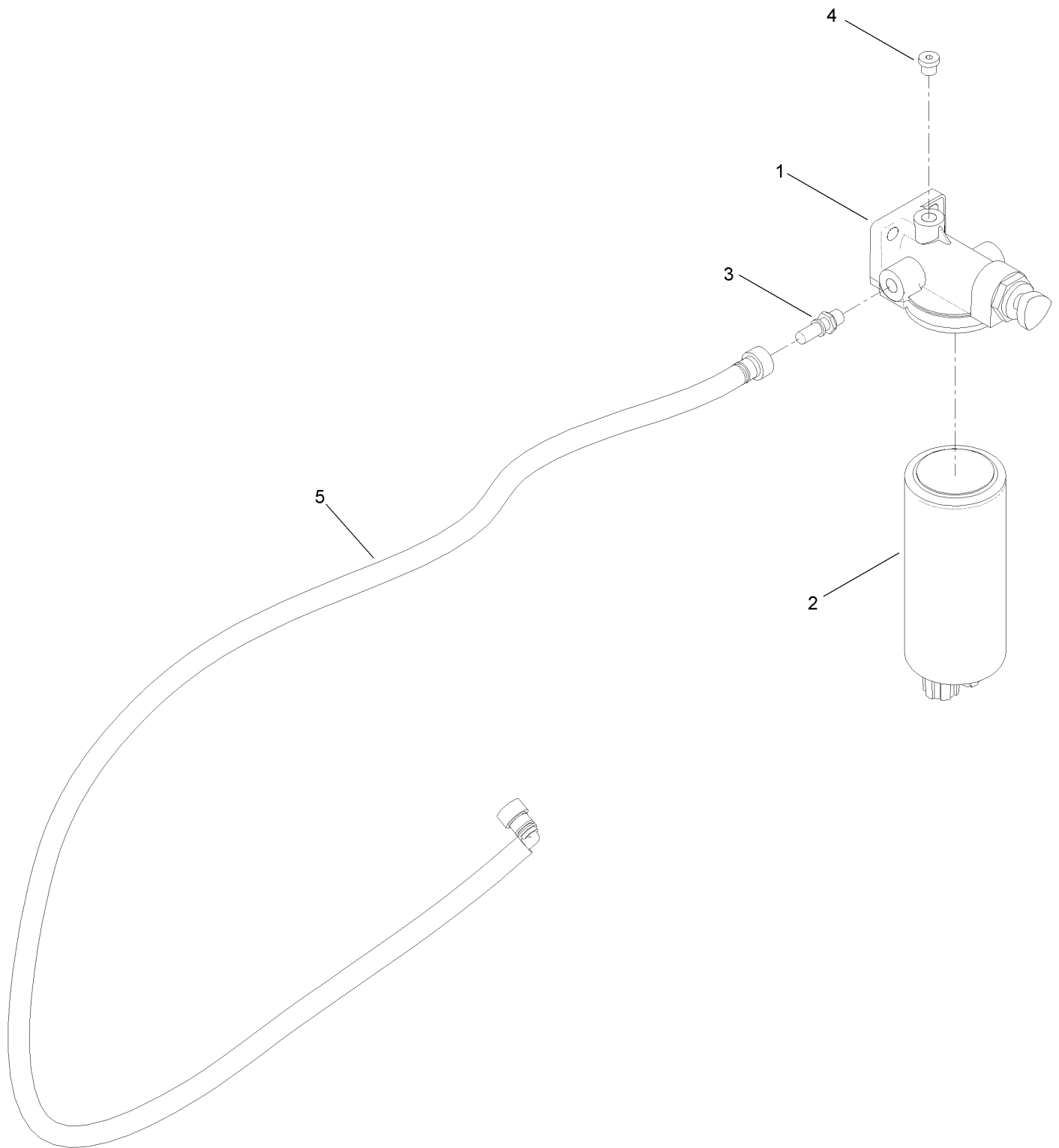
Remote Mounted Engine Parts Box Assembly



Remote Mounted Engine Parts Box Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-5254	1	Fuel Filter ASM	5	127-0882	1	Fitting-Oil
2	127-5252	1	Fitting-Fuel	6	127-0883	1	Fitting-Oil
3	127-0881	1	Head-Filter, Oil	7	127-0884	1	Hose-Oil
4	127-0880	1	Filter-Oil	8	127-0885	1	Hose-Oil

Fuel Filter Assembly No. 127-5254

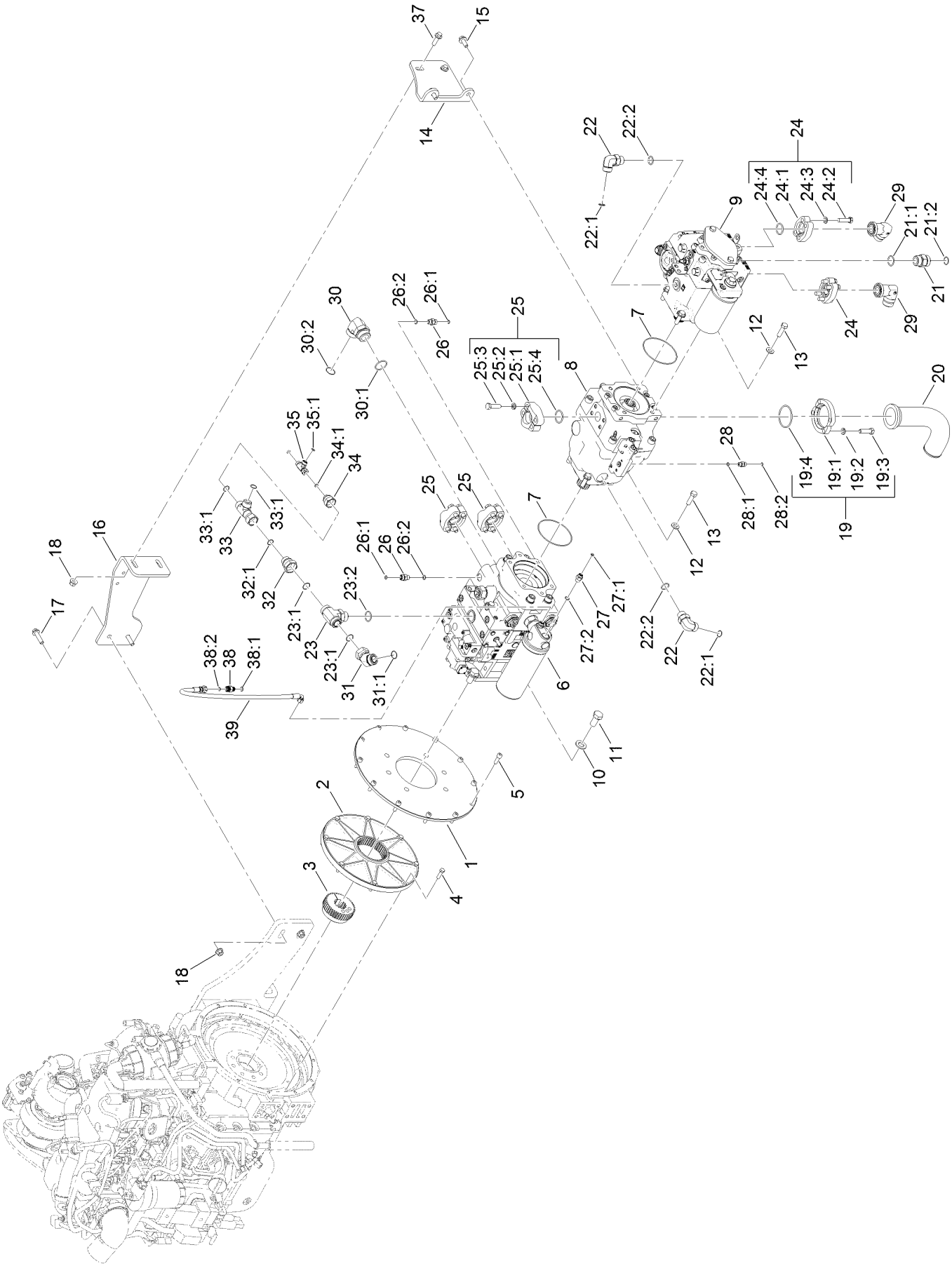


Fuel Filter Assembly No. 127-5254 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-5250	1	Head-Filter, Fuel
2	127-5251	1	Filter-Fuel
3	127-5252	1	Fitting-Fuel

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	127-5253	1	Plug
5	121-7531	1	Hose ASM

Hydraulic Pump Assembly

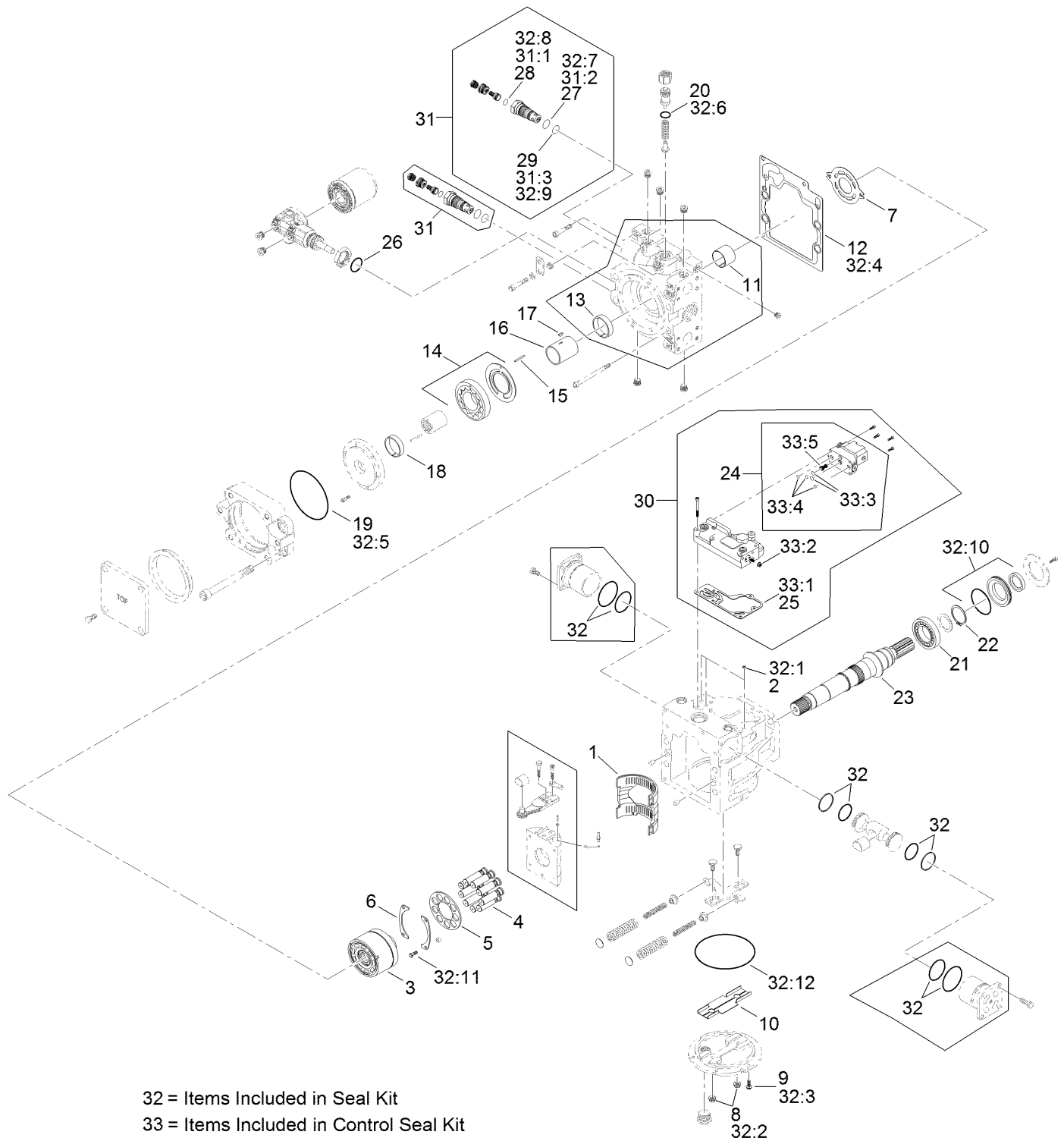


Hydraulic Pump Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU116050	1	Plate-Mount, Pump	24:3	48-8070	4	Washer-Lock
2	AU8PD92006	1	Coupling-Drive, Nylon	24:4		2	Flange ●
3	AU8PD92007	1	Hub-Steel, 13T	25	AU8TS46220	3	Split Flange Kit
4	323-44	8	Screw-HH	25:1		2	Flange-Half ●
5	AU862-10030	12	Screw-HSH	25:2	3253-7	4	Washer-Lock
6	136-1499	1	Rotary Pump ASM	25:3	325-7	4	Screw-HH
7	AU70-9004104-158	2	Seal-O Ring	25:4	115-5420	1	O-Ring
8	AU116306	1	Load-Sense Pump ASM	26	340-2	2	Fitting-HYD, Straight
9	AU116314	1	Hydrostat Pump ASM	26:1	237-22	1	O-Ring
10	AU496-11081	4	Washer	26:2	237-42	1	O-Ring
11	AU426-1224	4	Bolt	27	340-1	2	Fitting-HYD, Straight
12	AU496-21053	8	Washer-Flat	27:1	237-21	1	O-Ring
13	121-1524	8	Screw-HH	27:2	237-42	1	O-Ring
14	AU116261-03	1	Bracket-Mounting, Pump	28	340-92	1	Fitting-HYD, Straight
15	33106-030	2	Screw-HHF	28:1	237-78	1	O-Ring
16	AU117689-03	1	Bracket-Mounting, Center	28:2	237-21	1	O-Ring
17	33106-050	2	Screw-HHF	29	AU126488	2	Elbow-90
18	115-1115	4	Nut-Lock, HHF	30	340-52	1	Fitting-Elbow, 90
19	AU91-FF593-40	1	Split Flange Kit	30:1	237-101	1	O-Ring
19:1		2	Flange ●	30:2	340-64	1	O-Ring
19:2	3253-7	4	Washer-Lock	31	AU8OE81616	1	Fitting-Elbow, 45
19:3	121-1524	4	Screw-HH	31:1	340-65	1	O-Ring
19:4	127-0980	1	O-Ring	32	AU8OA81216	1	Fitting-Reducer
20	AU121324	1	Tube-Bent	32:1	237-58	1	O-Ring
21	104-3797	1	Fitting-HYD, Straight	33	AU8OR81212	1	Fitting-Tee
21:1	237-146	1	O-Ring	33:1	237-58	2	O-Ring
21:2	340-65	1	O-Ring	34	AU8OA80612	1	Fitting-Reducer
22	340-142	2	Fitting-HYD, 90 DEG	34:1	237-22	1	O-Ring
22:1	237-58	1	O-Ring	35	340-115	1	Fitting-Tee, Swivel Nut
22:2	237-81	1	O-Ring	35:1	237-22	2	O-Ring
23	104-7501	1	Fitting-HYD	37	33106-040	2	Screw-HHF
23:1	340-65	2	O-Ring	38	100-7210	1	Check Valve
23:2	237-146	1	O-Ring	38:1	237-42	1	O-Ring
24	121-3903	2	Flange Kit	38:2	237-22	1	O-Ring
24:1	121-3904	1	O-Ring	39	133-9593	1	Hose ASM-HYD
24:2	33116-045	4	Screw-HH				

● Not serviced separately

Hydraulic Pump Assembly No. 136-1499



Hydraulic Pump Assembly No. 136-1499 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-7630	1	Cradle Bearing ASM	28	131-8613	2	O-Ring
2	AU105638A1	3	Screen-Filter, Control	29	131-7613	2	O-Ring
3	131-7642	1	Cylinder Block ASM	30	AU104296	1	E.D.C Kit
4	131-7610	9	Piston-Welded	31	133-6230	2	Multi Function Valve ASM
5	131-8600	1	Guide-Slipper	31:1	131-8613	1	O-Ring
6	131-7608	2	Bearing-Guide, Slipper	31:2	131-7612	1	O-Ring
7	131-8625	1	Plate-Valve	31:3	131-7613	1	O-Ring
8	131-7387	2	Nut-Seal	32	131-8635	1	Overhaul Seal Kit
9	131-7605	6	Screw	32:1	AU105638A1	3	Screen-Filter, Control
10	131-8624	1	Side Cover Insert ASM	32:2	131-7387	2	Nut-Seal
11	131-8618	1	Bearing-Journal	32:3	131-7605	6	Screw
12	131-8626	1	Gasket-Cap, End	32:4	131-8626	1	Gasket-Cap, End
13	131-8617	1	Bearing-Journal	32:5	131-7603	1	O-Ring
14	131-7602	1	Charge Pump Set	32:6	131-8614	1	O-Ring
15	136-1597	1	Pin	32:7	131-7612	2	O-Ring
16	136-1598	1	Shaft-Pump, Charge	32:8	131-8613	2	O-Ring
17	131-8627	1	Key	32:9	131-7613	2	O-Ring
18	131-8617	1	Bearing-Journal	32:10		1	Shaft Seal ASM ●
19	131-7603	1	O-Ring	32:11		1	Screw ●
20	131-8614	1	O-Ring	32:12		1	O-Ring ●
21	131-7638	1	Bearing-Roller	33	130-4589	1	Control Seal Kit
22	131-8621	1	Ring-Retaining	33:1		1	Gasket-Control ●
23	131-8620	1	Shaft-13 Tooth	33:2		1	Nut-Seal ●
24	AU104298	1	Weather Pack Connector Kit	33:3		2	O-Ring ●
25	131-7628	1	Gasket-Control	33:4		3	O-Ring ●
26	131-8615	1	O-Ring	33:5		1	Filter ASM ●
27	131-7612	2	O-Ring				

● Not serviced separately

11 = Items Included in Seal Kit

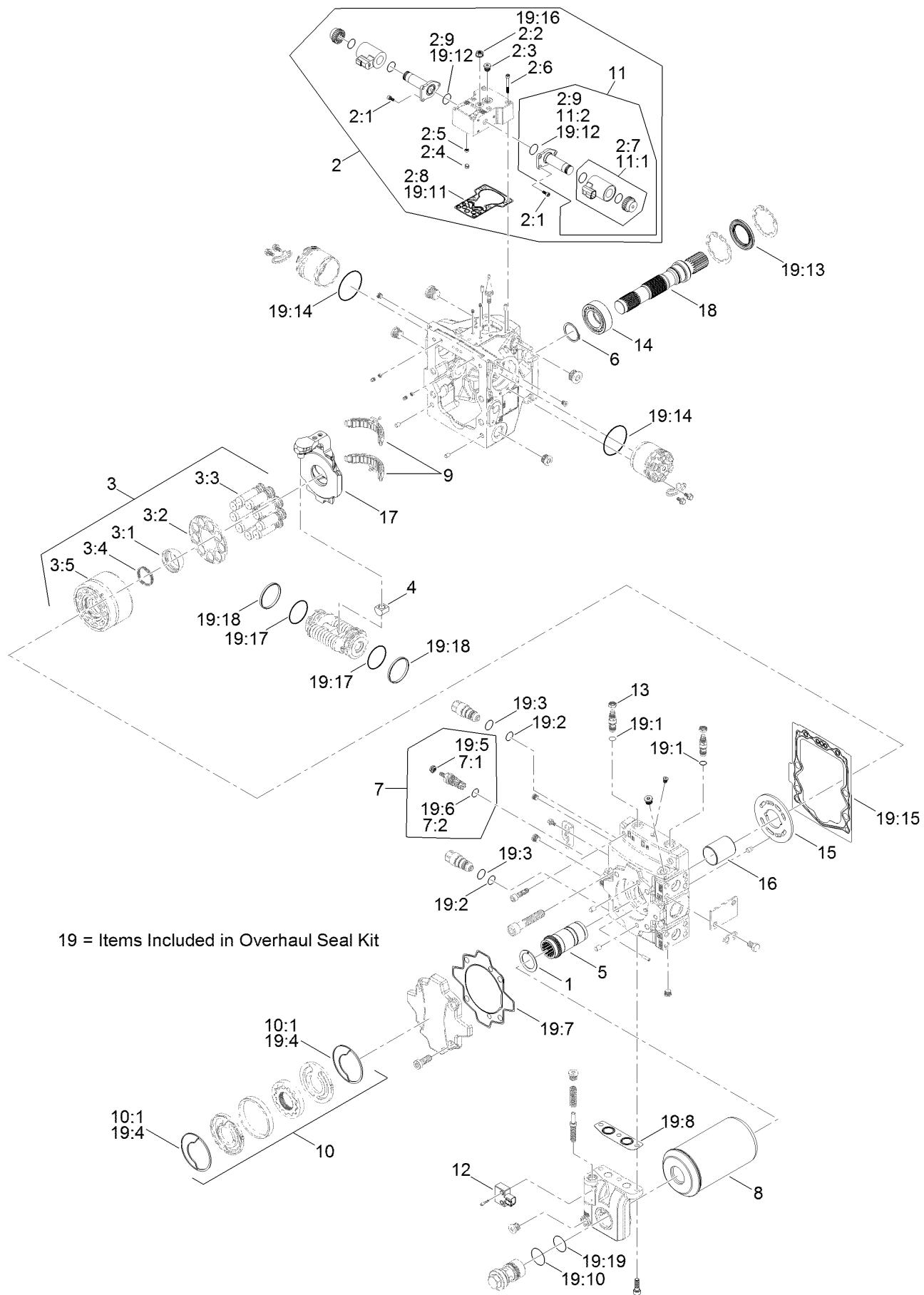
10 = Items Included in Control Seal Kit

Hydraulic Pump Assembly No. AU116306 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-7614	3	Pin-Hold Down	10:7		1	Guide-Spring, Ls ●
2	131-7615	1	Coupling	10:8		1	Spring-Outer, Ls ●
3	131-7616	1	Plate-Valve, CW	10:9		1	Spring-Inner, Ls ●
4	131-7617	1	Swashplate ASM	10:10		1	Plug-Adjustment ●
5	131-7621	1	Rear Bearing Kit	10:11		1	Guide-Spring, Pc ●
6	131-7622	1	Front Bearing Kit	10:12		1	Spring-Outer, Pc ●
7	131-7623	1	Swashplate Bearing Kit	10:13		1	Spring-Inner, Pc ●
8	131-8602	9	Piston ASM	10:14		1	Plug-Adjusting, Pc ●
9	131-8604	1	Shaft	11	131-8634	1	Overhaul Seal Kit
10	131-8608	1	Control Kit	11:1	131-7607	1	O-Ring
10:1	131-7625	1	O-Ring	11:2	131-7625	1	O-Ring
10:2	131-7624	4	Ring-Seal	11:3	131-7624	4	Ring-Seal
10:3		4	Plug ●	11:4	131-8628	1	Seal-Lip
10:4		4	Screw ●	11:5		1	Plug-Adjustment ●
10:5		2	Spool-Control ●	11:6		1	Seal-Cap, End ●
10:6		2	Screw-Set ●				

● Not serviced separately

Hydraulic Pump Assembly No. AU116314

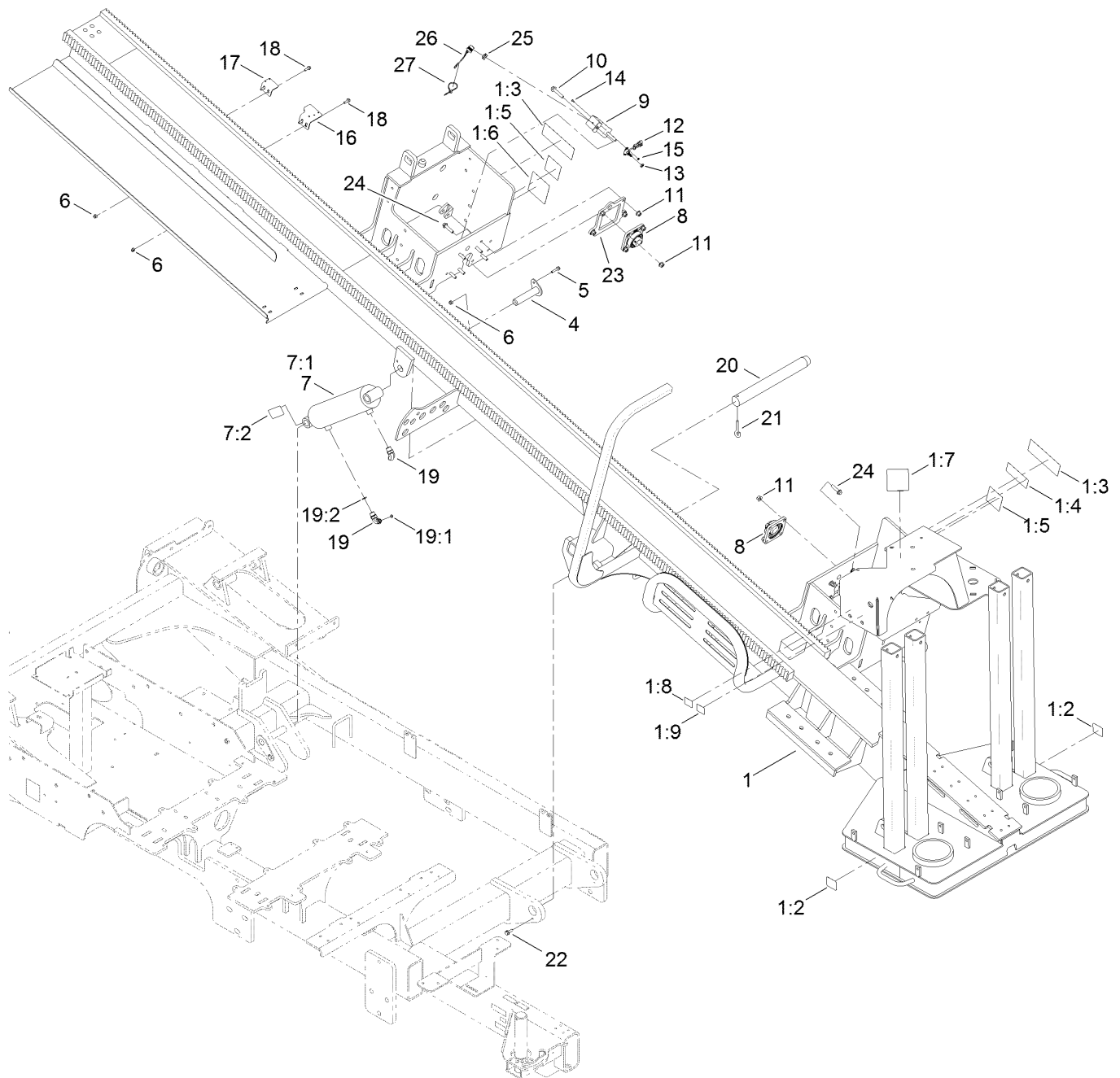


Hydraulic Pump Assembly No. AU116314 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-5287	1	Plate-Thrust	11:1	125-5294	1	Coil Kit
2	125-5295	1	Control Kit (12 Volt)	11:2	125-5288	1	O-Ring
2:1	125-5272	6	Screw	12	131-7641	1	Sensor-Filtration
2:2	125-5273	1	Nut-Seal	13	131-7645	2	Nut
2:3	125-5302	1	Plug ASM	14	131-7646	1	Bearing-Ball
2:4	125-5266	1	Screen	15	131-8601	1	Plate-Valve, CW
2:5	125-5269	1	Ring-Locking	16	131-8605	1	Bearing-Journal
2:6	125-5274	6	Screw	17	131-8606	1	Swashplate
2:7	125-5294	2	Coil Kit	18	131-8607	1	Shaft
2:8	125-5283	1	Gasket-Control	19	131-8632	1	Overhaul Seal Kit
2:9	125-5288	2	O-Ring	19:1	131-7386	2	O-Ring
3	131-7390	1	Check Valve Kit	19:2	131-7396	2	O-Ring
3:1	131-8609	1	Guide-Ball, Slipper Retainer	19:3	125-5289	2	O-Ring
3:2	131-7391	1	Guide-Slipper	19:4	131-8611	2	Ring-Seal
3:3	131-7639	1	Piston ASM	19:5	125-5273	1	Nut-Seal
3:4		1	Ring-Spring ●	19:6	28-3570	1	O-Ring
3:5		1	Cylinder Block ASM ●	19:7	125-5285	1	Seal-Adapter
4	131-7392	1	Block-Slider	19:8	131-7389	1	Gasket-Adapter, Filter
5	131-7395	1	Shaft	19:10	131-7397	1	O-Ring
6	131-7600	1	Ring-Retaining	19:11	125-5283	1	Gasket-Control
7	131-7631	1	Charge Relief Valve Kit	19:12	125-5288	2	O-Ring
7:1	125-5273	1	Nut-Seal	19:13	131-7394	1	Seal-Lip
7:2	28-3570	1	O-Ring	19:14	131-7393	2	O-Ring
8	131-7632	1	Filter	19:15		1	Gasket-Cap, End ●
9	131-7633	1	Swashplate Bearing Kit	19:16	125-5273	1	Nut-Seal
10	131-7634	1	Charge Pump Kit (14Cc)	19:17		2	O-Ring ●
10:1	131-8611	2	Ring-Seal	19:18		2	Ring-Piston ●
11	131-7636	2	Solenoid Valve ASM	19:19		1	O-Ring ●

● Not serviced separately

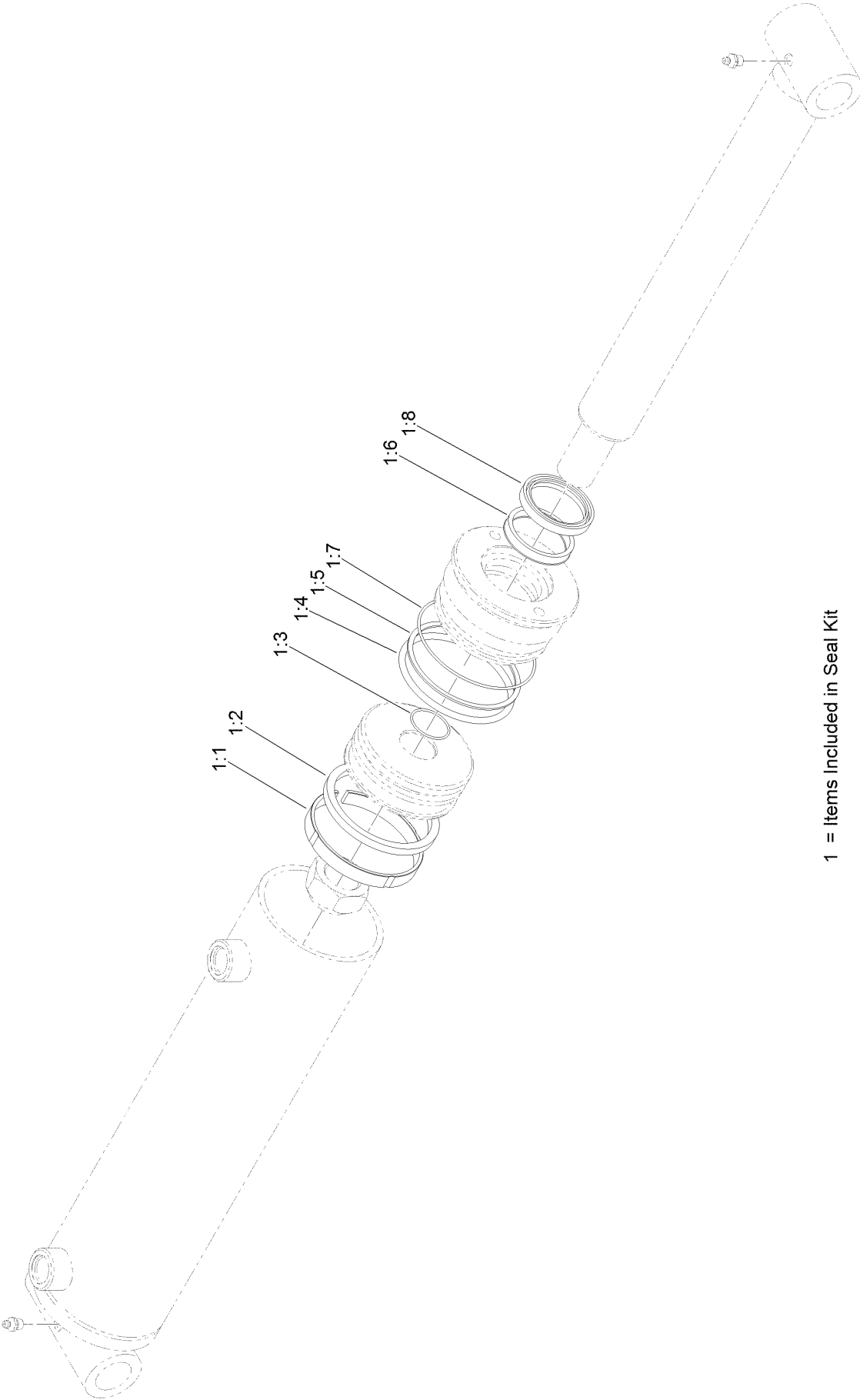
Thrust Frame Assembly



Thrust Frame Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0931	1	Thrust Frame ASM	11	115-1115	16	Nut-Lock, HHF
1:2	125-6694	2	Decal-Tie Down	12	131-0177	1	Sensor-Rotary
1:3	125-6130	2	Decal-Danger, Hazardous Area	13	112-8617	1	Nut-Hex
1:4	125-6128	1	Decal-Warning, Hydraulic Pressure	14	60-6500	2	Screw-HH
1:5	125-6107	2	Decal-Warning, Crushing	15	127-2018	2	Nut-HHF
1:6	125-6109	1	Decal-Danger, Shock	16	AU122460-03	2	Plate-Mount, Proximity Switch
1:7	125-6111	1	Decal-Stakedown Set Up	17	AU122537-03	1	Plate-Mount, Switch
1:8	125-6123	1	Decal-Pipe Return, Clear	18	33104-025	6	Screw-HHF
1:9	125-6124	1	Decal-Pipe Breakout, Clear	19	340-130	2	Fitting-Elbow, 90
4	AU117944	1	Pin-Pivot	19:1	237-22	1	O-Ring
5	33104-040	1	Screw-HHF	19:2	237-80	1	O-Ring
6	104-3082	7	Nut-Lock, HHF	20	AU118521	1	Pin-Pivot, Main
7	127-0933	1	Lift Cylinder ASM	21	AUH313981	1	Pin-Retainer
7:1	AU116296	1	HYD Cylinder ASM	22	33105-030	1	Screw-HHF
7:2	125-6115	1	Decal-Caution, Cylinder Lock	23	125-6511-03	2	Plate-Support, Bearing
8	AU121325	2	Bearing-Flanged Y, Square	24	33106-050	14	Screw-HHF
9	132-4171-03	1	Bracket-Sensor, Cam	25	32180-011	1	Clip-Connector
10	33106-060	2	Screw-HHF	26	122-0673	1	Harness-Adaptor, Sensor
				27	3290-378	1	Tie-Cable

Hydraulic Cylinder Assembly No. AU116296



1 = Items Included in Seal Kit

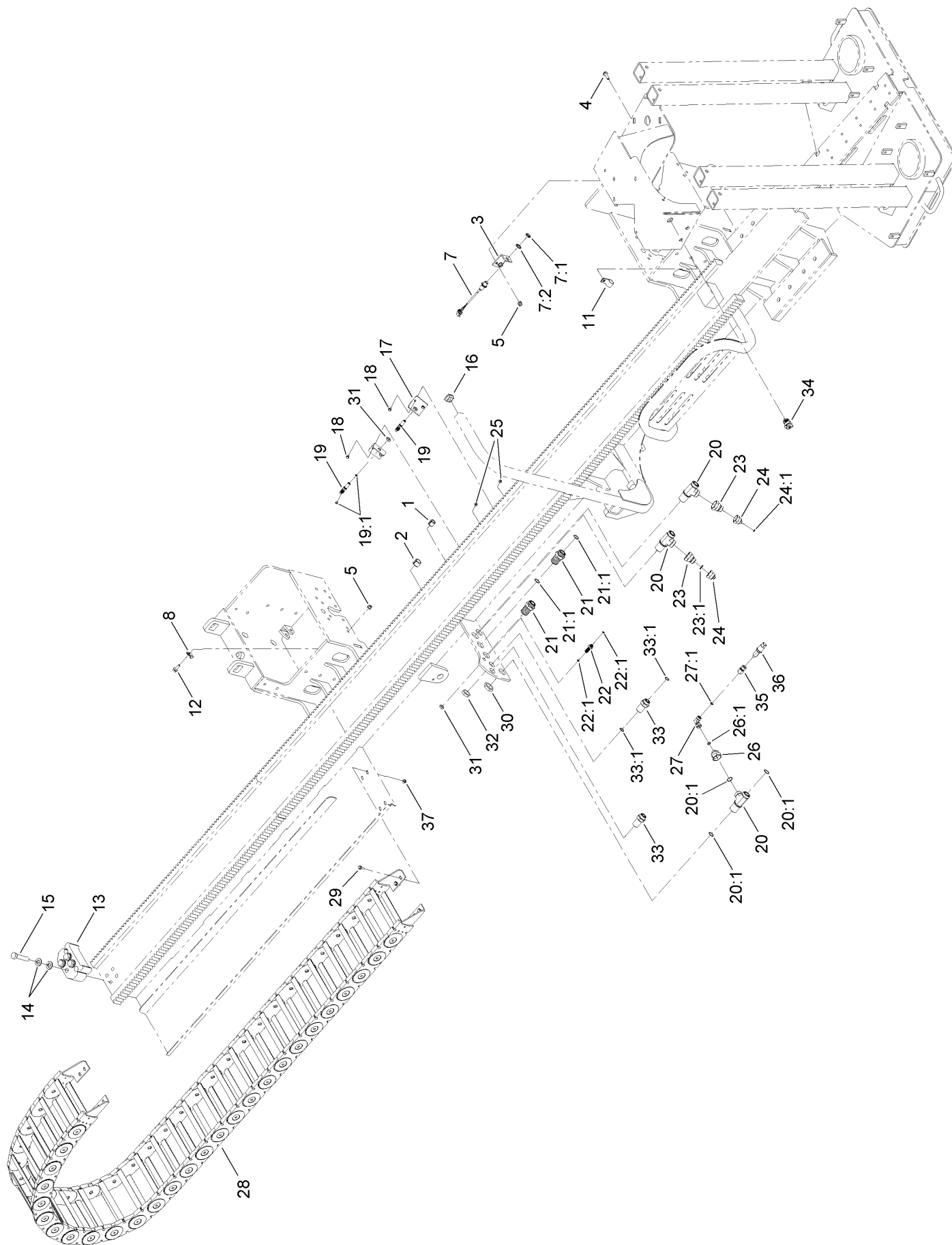
Hydraulic Cylinder Assembly No. AU116296 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU8HC40017-1	1	Seal Kit
1:1		1	Ring-Bearing ●
1:2		1	Teflon Seal ASM ●
1:3		1	O-Ring ●
1:4		1	O-Ring ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:5		1	Washer-Backup ●
1:6		1	Cup-U ●
1:7		1	O-Ring ●
1:8		1	Wiper ●

● Not serviced separately

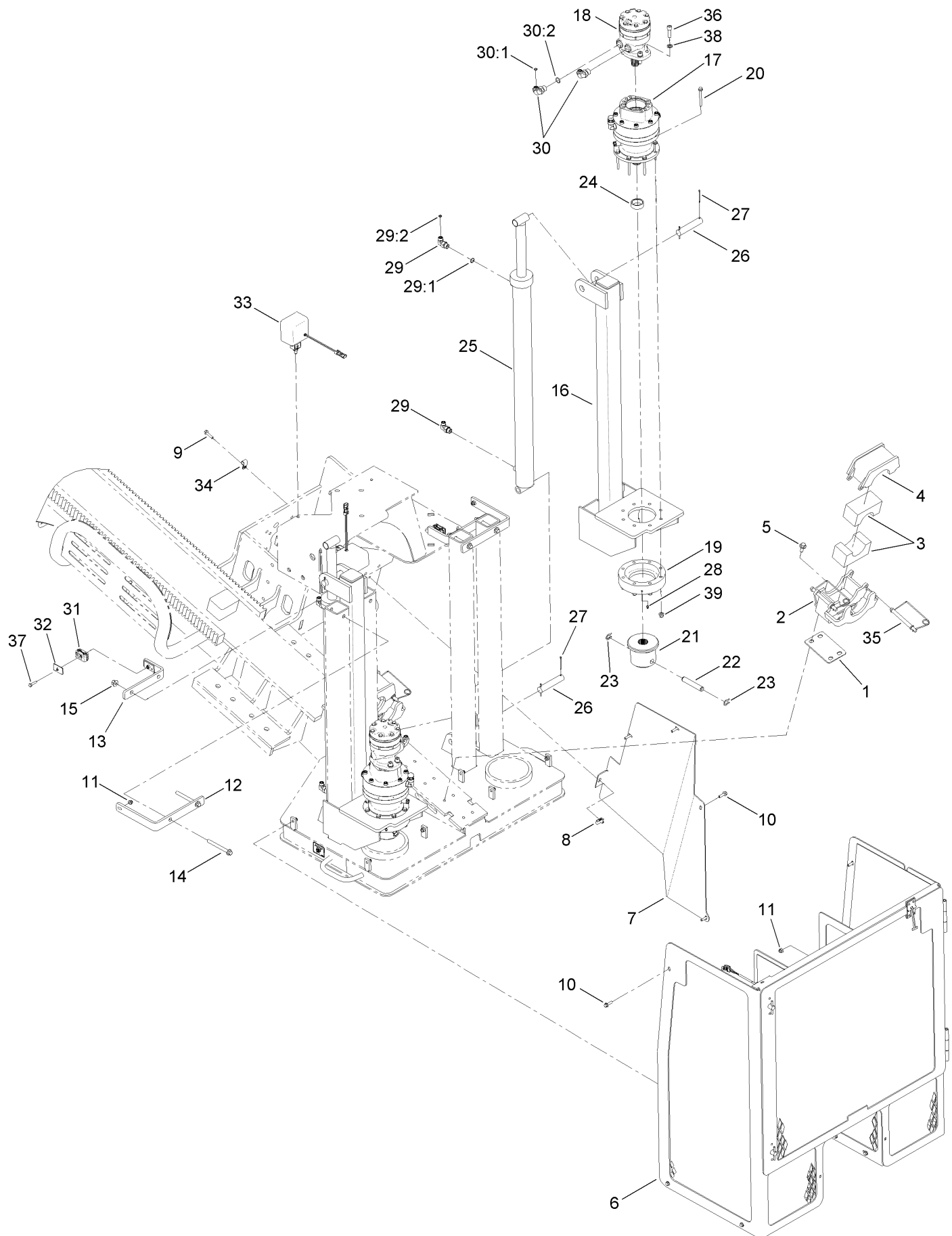
Thrust Frame Hose Carrier Assembly



Thrust Frame Hose Carrier Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU109676	4	Bushing-Spring	22	94-1444	3	Union-Bulkhead
2	AU125808	2	Bushing-Spring	22:1	237-21	2	O-Ring
3	121-7532	1	Bracket-Switch	23	AU8OA81216	2	Fitting-Reducer
4	33105-035	2	Screw-HHF	23:1	237-58	1	O-Ring
5	103-9511	3	Nut-Lock, NI	24	AU8OA80412	2	Fitting-Reducer
7	115-5300	1	Proximity Switch ASM	24:1	237-21	1	O-Ring
7:1	117-3207	2	Nut-Hex	25	81-0130	4	Nut-Flange, NI
7:2	117-3208	2	Washer-Lock, Internal Tooth	26	AU8OA80816	1	Fitting-Reducer
8	2412-138	1	R-Clamp	26:1	237-30	1	O-Ring
11	2412-71	1	Clamp-R	27	94-6031	1	Fitting-HYD
12	33105-030	1	Screw-HHF	27:1	237-30	1	O-Ring
13	AU32GB2011-03	1	Stop-Carriage, Rear Frame	28	AU119010	1	Carrier-Hose, 36 Links
14	AU496-11081	8	Washer	29	33104-025	4	Screw-HHF
15	AU426-1256	4	Screw-HH	30	340-128	5	Nut-Bulkhead
16	AU8PP92001	1	Cap-Square, Plastic	31	340-78	5	Nut-Lock
17	AU124863-03	2	Plate-Mount	32	340-126	2	Nut-Bulkhead
18	33103-020	4	Screw-HHF	33	94-2637	2	Fitting-HYD
19	AU8OR90404	2	Fitting-Tee	33:1	237-58	2	O-Ring
19:1	237-21	3	O-Ring	34	109-9376	1	Receptacle-12V
20	AU8OR91616	3	Fitting-Tee, Bulkhead	35	127-0887	1	Fitting-Straight
20:1	340-65	3	O-Ring	36	125-6578	1	Transducer-6000 Psi (W/Isolator)
21	106-0060	2	Adapter-HYD	37	104-3082	4	Nut-Lock, HHF
21:1	340-65	2	O-Ring				

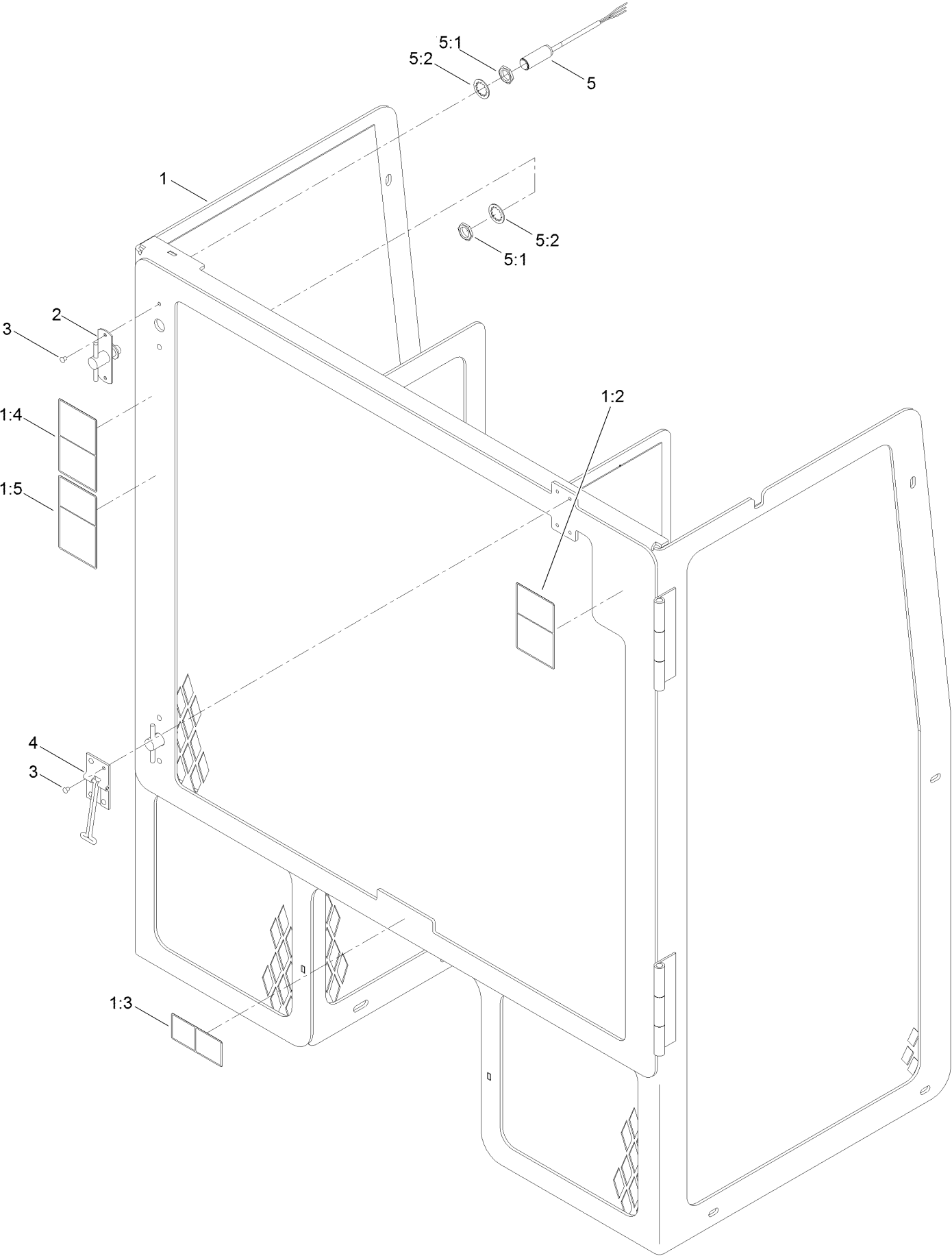
Planetary, Rod Guide and Stakedown Cage Assembly



Planetary, Rod Guide and Stakedown Cage Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU123409	2	Plate-Shim, Bushing Guide	23	AU8SR16001	4	Ring-Retaining, E-Type
2	AU115589-03	2	Guide-Rod, Lower	24	AU32GB7509-03	2	Spacer-Tube
3	AU119095	2	Bushing-Guide, Rod	25	AU8HC25036	2	HYD Cylinder ASM
4	AU115588-03	2	Guide-Rod, Upper	26	AU32GB7522	4	Pin-Bar
5	33106-030	8	Screw-HHF	27	3272-15	8	Pin-Cotter
6	125-6512	1	Stakedown Cage ASM	28	302-57	2	Fitting-Grease
7	AU122462-03	1	Plate-Guard	29	340-18	4	Fitting-HYD, 90 DEG
8	AU100862	3	Nut-U	29:1	237-79	1	O-Ring
9	33104-035	3	Screw-HHF	29:2	237-22	1	O-Ring
10	33104-030	11	Screw-HHF	30	340-130	4	Fitting-Elbow, 90
11	104-3082	11	Nut-Lock, HHF	30:1	237-22	1	O-Ring
12	AU124995-03	2	Plate-Mount, Stakedown	30:2	237-80	1	O-Ring
13	AU122788-03	2	Bracket ASM	31	AU8CL21704	2	Clamp-Half (Set Of 2)
14	AU100357	4	Screw-HHF	32	AU8CL21201	2	Plate-Cover, Twin
15	115-1115	4	Nut-Lock, HHF	33	122-0144	2	Work Light ASM
16	125-6520-03	2	Stakedown	34	2412-138	1	R-Clamp
17	AU8GB80063	2	Planetary Gearbox ASM	35	127-0897	4	Pin-Lynch
18	AU8HM24048	2	HYD Motor ASM	36	AU864-12040	8	Screw-HSH
19	AU32GB7527-03	2	Retainer	37	322-6	2	Screw-HH
20	33105-090	16	Screw-HHF	38	3253-7	8	Washer-Lock
21	AU32GB7526-03	2	Coupler-Auger Drive, Stakedown	39	103-9511	16	Nut-Lock, NI
22	AU32GB7507	2	Pin-Bar, Auger Coupler				

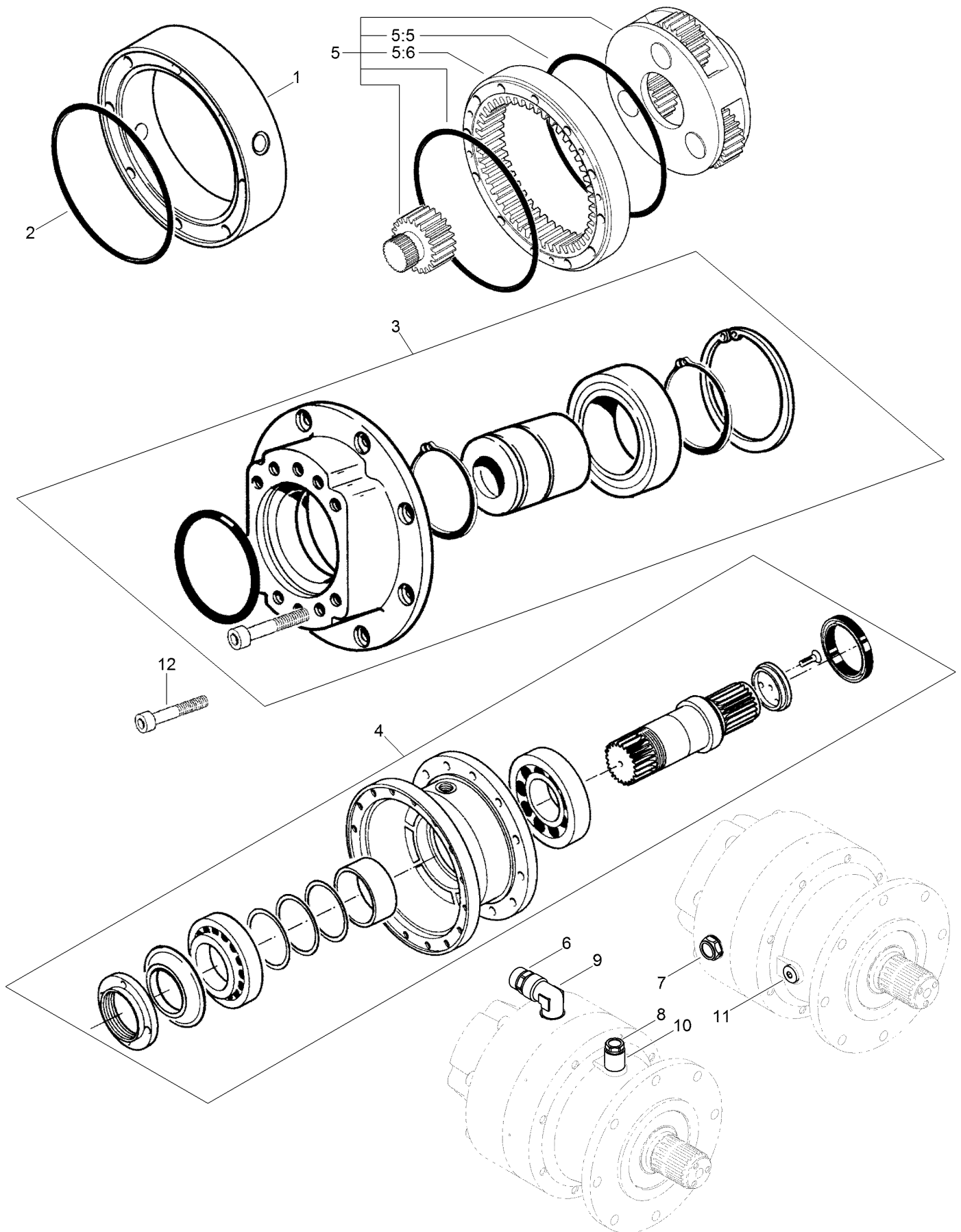
Stakedown Cage Assembly No. 125-6512



Stakedown Cage Assembly No. 125-6512 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0875	1	Stakedown Cage ASM	2	AUL102515	2	Latch
1:2	125-6131	2	Decal-Danger, Hazardous Area	3	1-803035	8	Rivet-Pop
1:3	125-6119	1	Decal-Danger, Entanglement	4	AU114618	1	Latch-Retaining
1:4	125-6126	1	Decal-Warning, Entanglement	5	115-5300	1	Proximity Switch ASM
1:5	125-6114	1	Decal-Danger, Impact Hazard	5:1	117-3207	2	Nut-Hex
				5:2	117-3208	2	Washer-Lock, Internal Tooth

Planetary Gearbox Assembly No. AU8GB80063

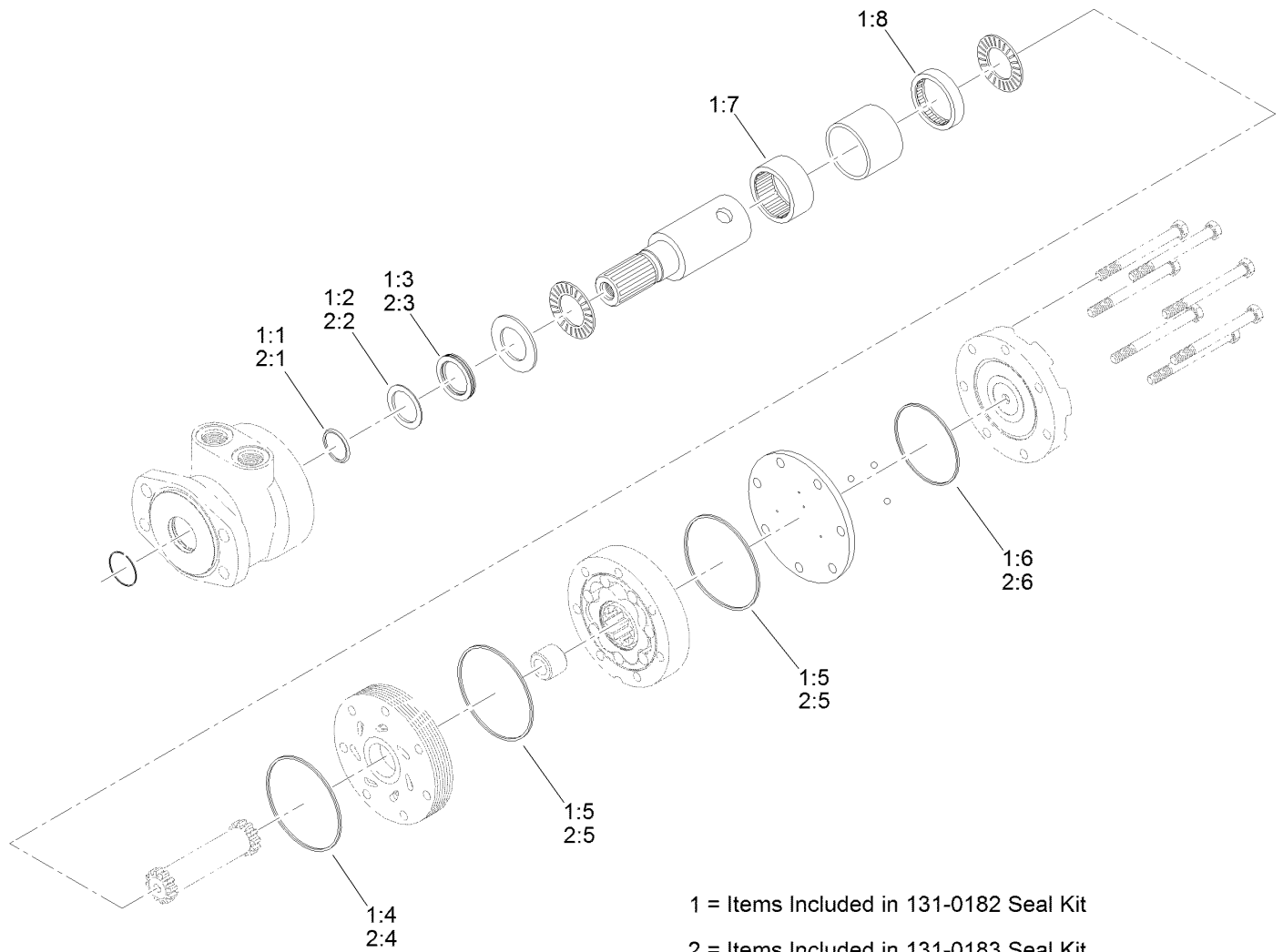


Planetary Gearbox Assembly No. AU8GB80063 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	133-9500	1	Spacer-Ring
2	133-9504	1	O-Ring
3	133-9505	1	Hydraulic Motor Adapter Kit
4	136-6875	1	Shaft-Splined, Output
5	136-6874	1	Reduction Stage Kit
5:5	133-9504	2	O-Ring
5:6	133-9503	1	Ring-Toothed
6	136-6892	1	Valve-Breather

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
7	136-6893	1	Plug-Level
8	136-6894	1	Plug-Magnetic
9	136-6895	1	Elbow-90 DEG
10	136-6896	1	Extension Pipe With Washer Kit
11	136-6897	1	Plug And Washer Kit
12	133-9506	8	Screw

Hydraulic Motor Assembly No. AU8HM24048



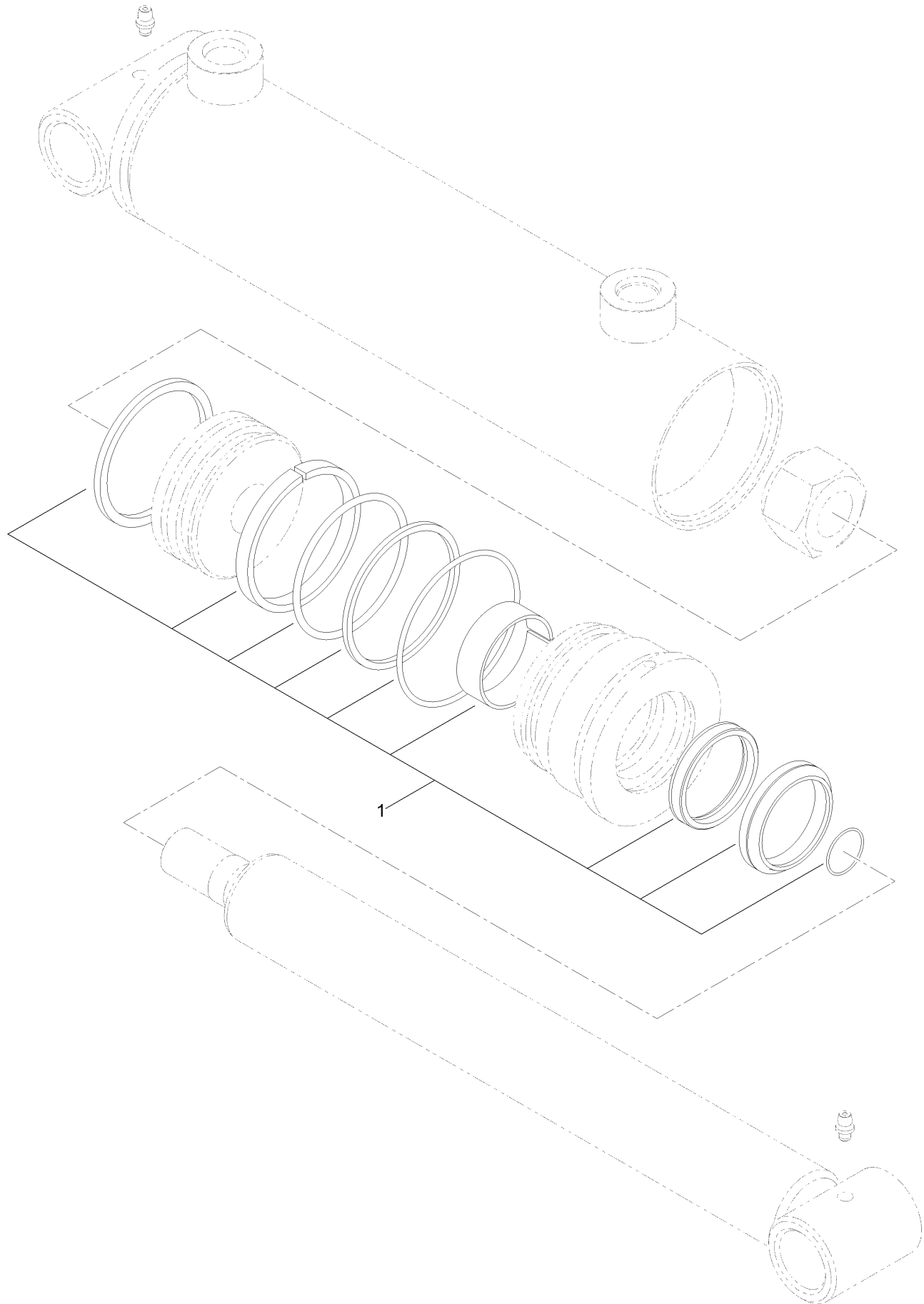
Hydraulic Motor Assembly No. AU8HM24048 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-0182	1	Seal Kit
1:1		1	Seal-Excluder ●
1:2		1	Seal-Backup ●
1:3		1	Seal-Shaft ●
1:4		1	Seal-Housing ●
1:5		2	Seal-Body ●
1:6		1	Seal-Endcover ●
1:7		1	Bearing-Housing, Front ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:8		1	Bearing-Housing, Rear ●
2	131-0183	1	Seal Kit
2:1		1	Seal-Excluder ●
2:2		1	Seal-Backup ●
2:3		1	Seal-Shaft ●
2:4		1	Seal-Housing ●
2:5		2	Seal-Body ●
2:6		1	Seal-Endcover ●

● Not serviced separately

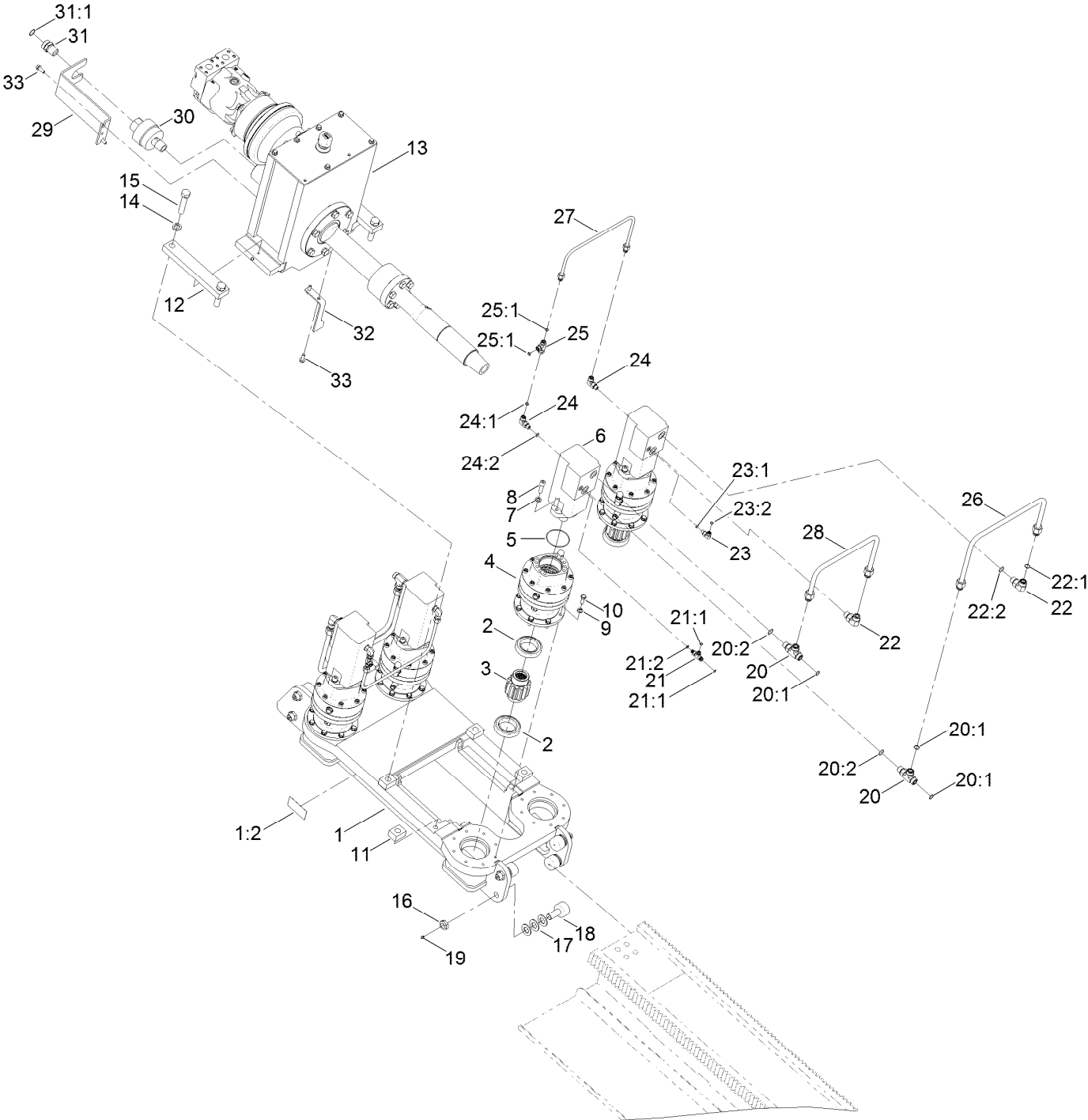
Hydraulic Cylinder Assembly No. AU8HC25036



Hydraulic Cylinder Assembly No. AU8HC25036 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU8HC25036-1	1	Seal Kit

Carriage and Rotary Assembly

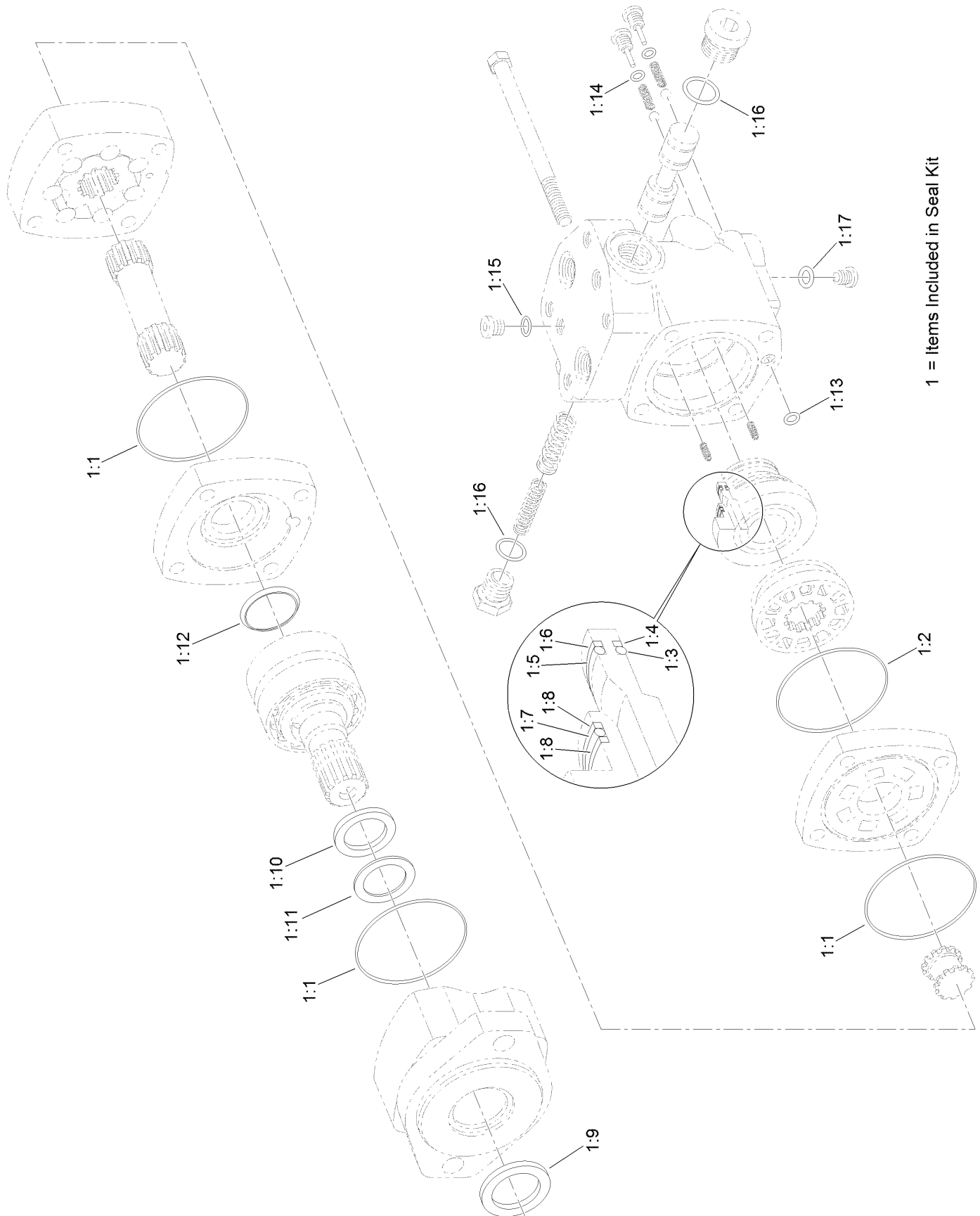


Carriage and Rotary Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0934	1	Carriage ASM	21:2	237-78	1	O-Ring
1:2	125-6110	2	Decal-Danger, Crushing	22	340-17	4	Fitting-HYD, 90 DEG
2	AU8CF40005	8	Bearing-Ball, Radial	22:1	237-65	1	O-Ring
3	AU32GB4020	4	Pinion-Drive, Carriage	22:2	237-80	1	O-Ring
4	AU8GB80063	4	Planetary Gearbox ASM	23	340-132	2	Fitting-HYD, 90 DEG
5	AU8HS51152	4	O-Ring	23:1	237-78	1	O-Ring
6	AU115604	4	HYD Motor ASM	23:2	237-21	1	O-Ring
7	3253-7	8	Washer-Lock	24	340-77	4	Fitting-HYD, 90 DEG
8	AU864-12040	8	Screw-HSH	24:1	237-22	1	O-Ring
9	3253-6	32	Washer-Lock	24:2	237-42	1	O-Ring
10	33115-030	32	Screw-HH	25	340-115	2	Fitting-Tee, Swivel Nut
11	AU32GB4022-03	4	Spacer-Clamp, Carriage	25:1	237-22	2	O-Ring
12	AU32GB4021-03	2	Clamp-Rotary Box, Carriage	26	AU119410	2	Tube-HYD, 5/8 In (Motor To Motor)
13		1	Rotary ASM ●	27	AU119452	2	Tube-HYD, 3/8 In (Case Drain Mtr To Mtr)
14	3253-9	4	Washer-Lock	28	AU119409	2	Tube-HYD, 5/8 In (Motor To Motor)
15	AU426-1256	4	Screw-HH	29	AU32GB4475-03	1	Bracket-Swivel, Mud
16	3296-60	8	Nut-Lock, NI	30	AU32GB4210	1	Swivel-Mud
17	AU496-11094	24	Washer	31	AU8OA11616	1	Fitting-Straight
18	AU8CF30032	8	Bearing-Follower, Cam	31:1	340-65	1	O-Ring
19	302-63	8	Zerk	32	AU121312-03	1	Plate-Trigger, Proximity
20	340-22	4	Fitting-HYD, Tee	33	3234-42	4	Screw-HHF
20:1	237-65	2	O-Ring				
20:2	237-80	1	O-Ring				
21	340-140	2	Adapter-Tee				
21:1	237-21	2	O-Ring				

● Not serviced separately

Hydraulic Motor Assembly No. AU115604



1 = Items Included in Seal Kit

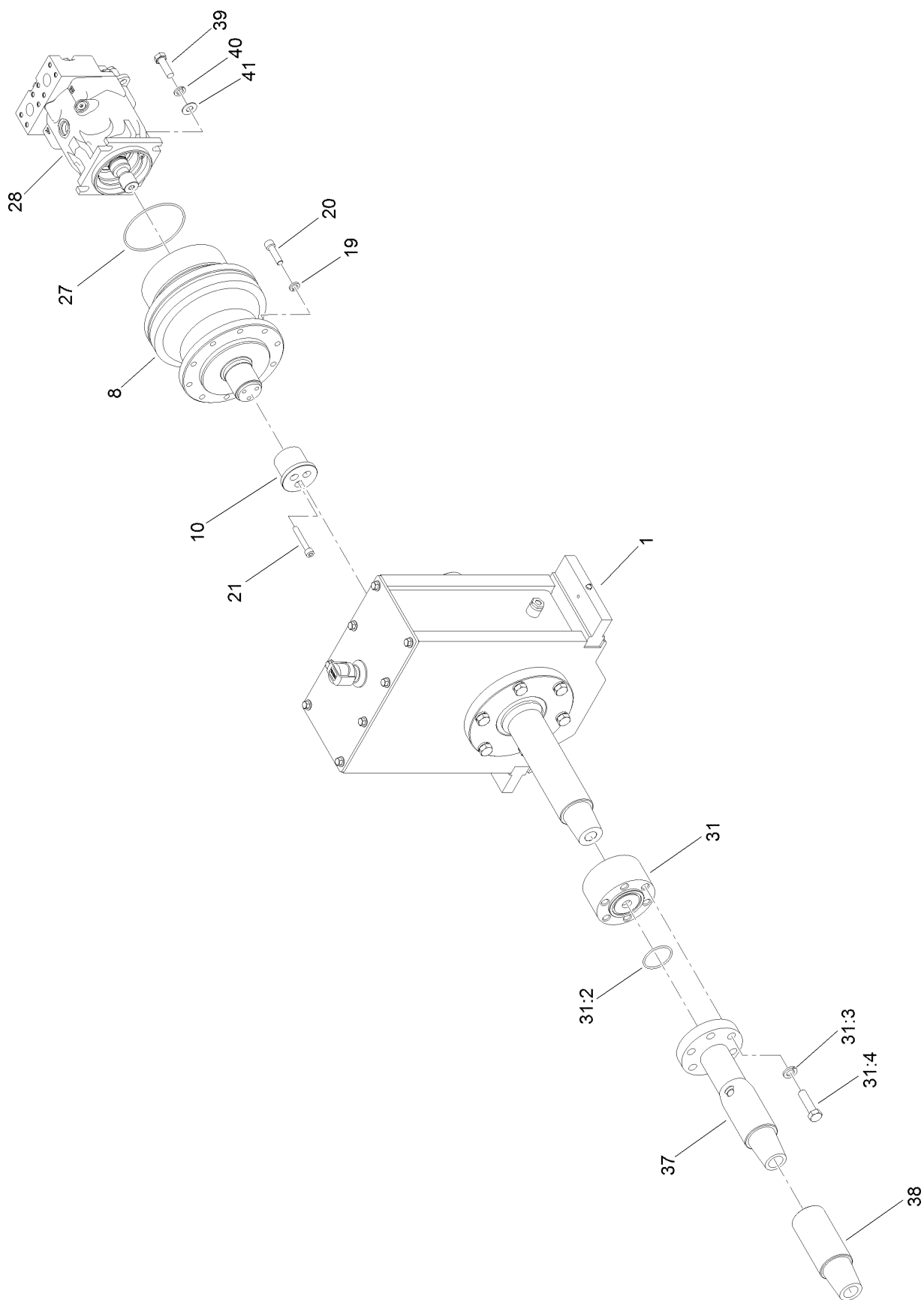
Hydraulic Motor Assembly No. AU115604 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-6212	1	Seal Kit
1:1		3	O-Ring ●
1:2		1	O-Ring ●
1:3		1	O-Ring ●
1:4		1	Ring-Backup ●
1:5		1	O-Ring ●
1:6		1	Ring-Backup ●
1:7		1	O-Ring ●
1:8		2	Ring-Backup ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:9		1	Seal ●
1:10		1	Seal ●
1:11		1	Washer-Backup ●
1:12		1	Seal-Shaft Face ●
1:13		1	Seal ●
1:14		3	O-Ring ●
1:15		1	O-Ring ●
1:16		2	O-Ring ●
1:17		1	O-Ring ●

● Not serviced separately

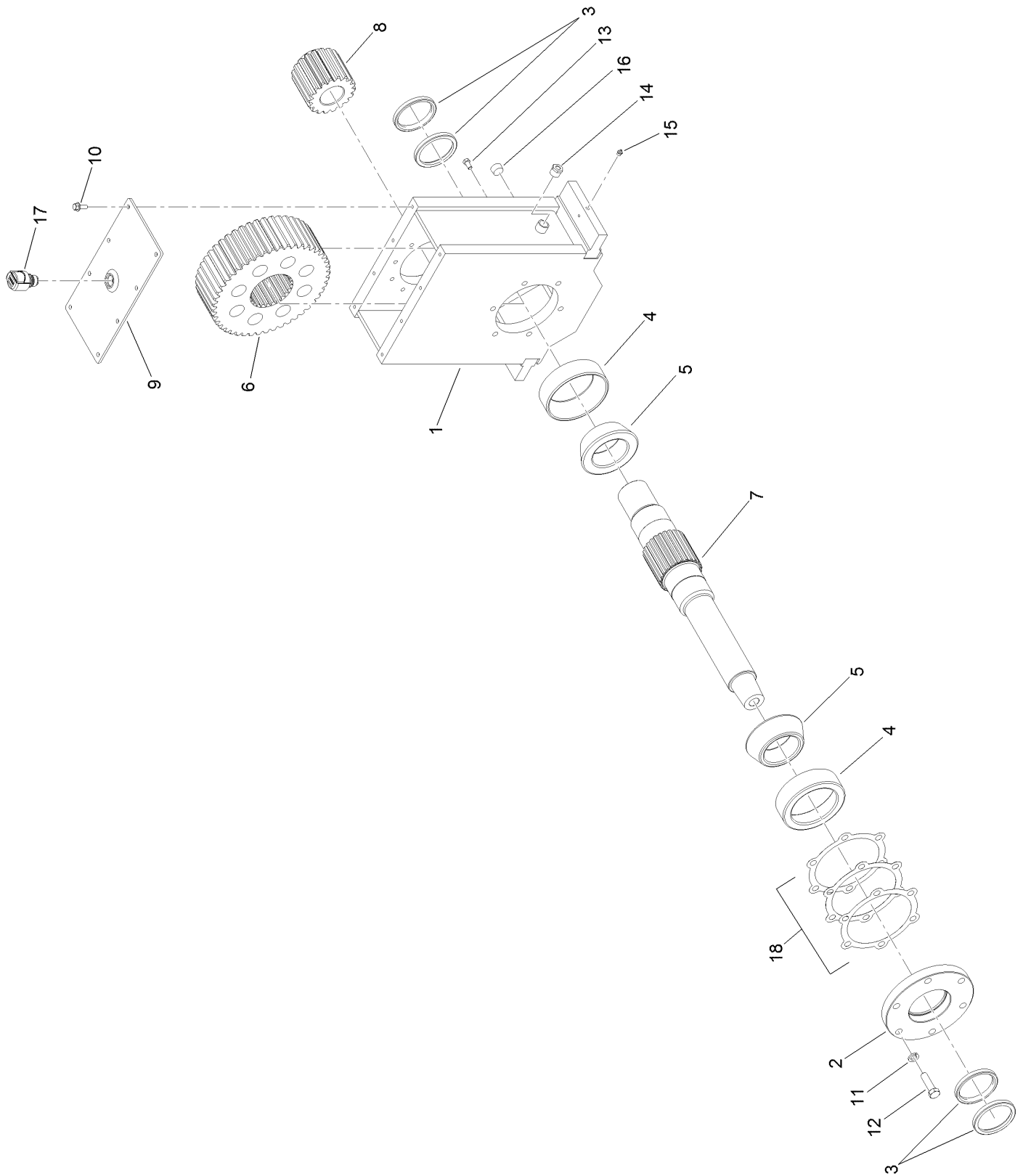
Rotary Assembly



Rotary Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	133-6208-03	1	Rotary Box ASM	31:2	AU114286	1	O-Ring
8	AU8GB80064	1	Planetary Gearbox ASM	31:3	69-8420	6	Washer-Lock
10	AU32GB4461	1	Cap-Pinion, Rotary	31:4	AU120624	6	Screw-HH
19	3253-7	10	Washer-Lock	37	AU119350	1	Adapter-Flange
20	AU864-12045	10	Screw-HSFH	38	AU119351	1	Saver ASM
21	AU8SH95365	3	Screw-HSH	39	AU814-14045	4	Screw-HH
27	104-1920	1	O-Ring	40	AU892-11014	4	Washer
28	AU8HM50016	1	HYD Motor ASM	41	69-8980	4	Washer
31	AU114322	1	Spindle ASM				

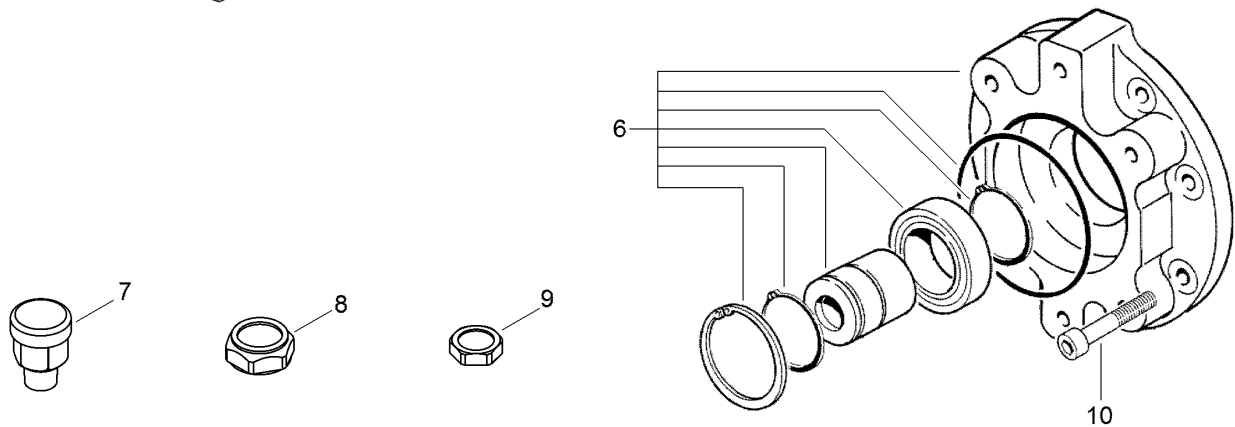
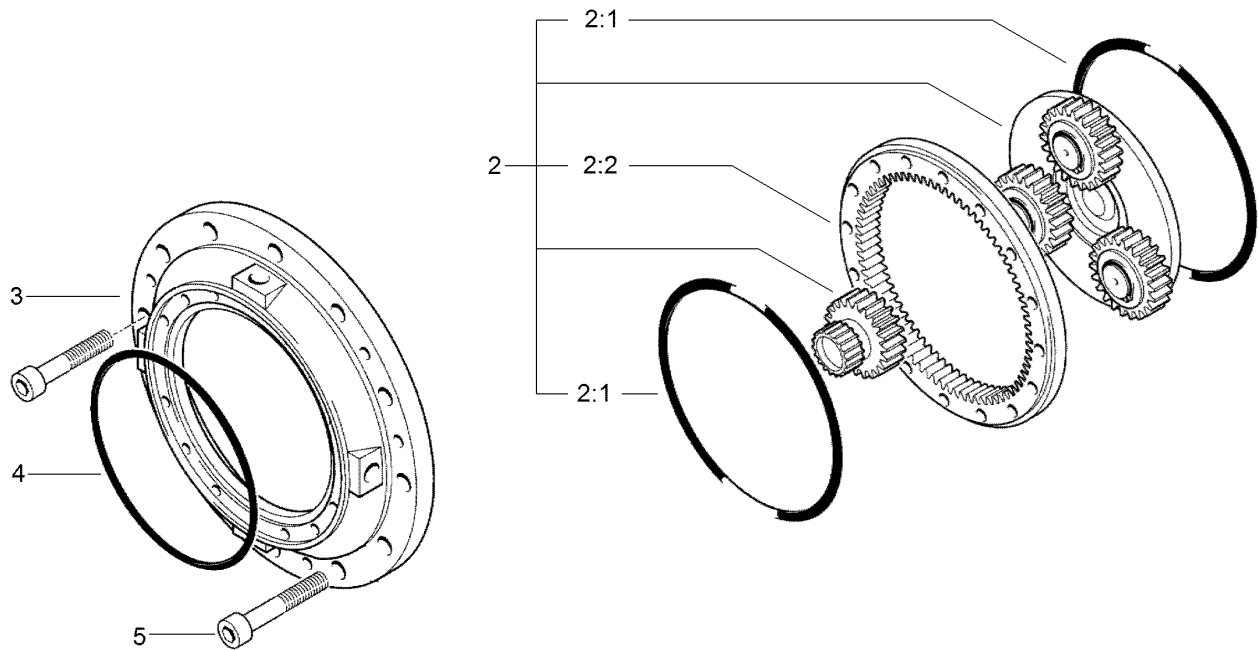
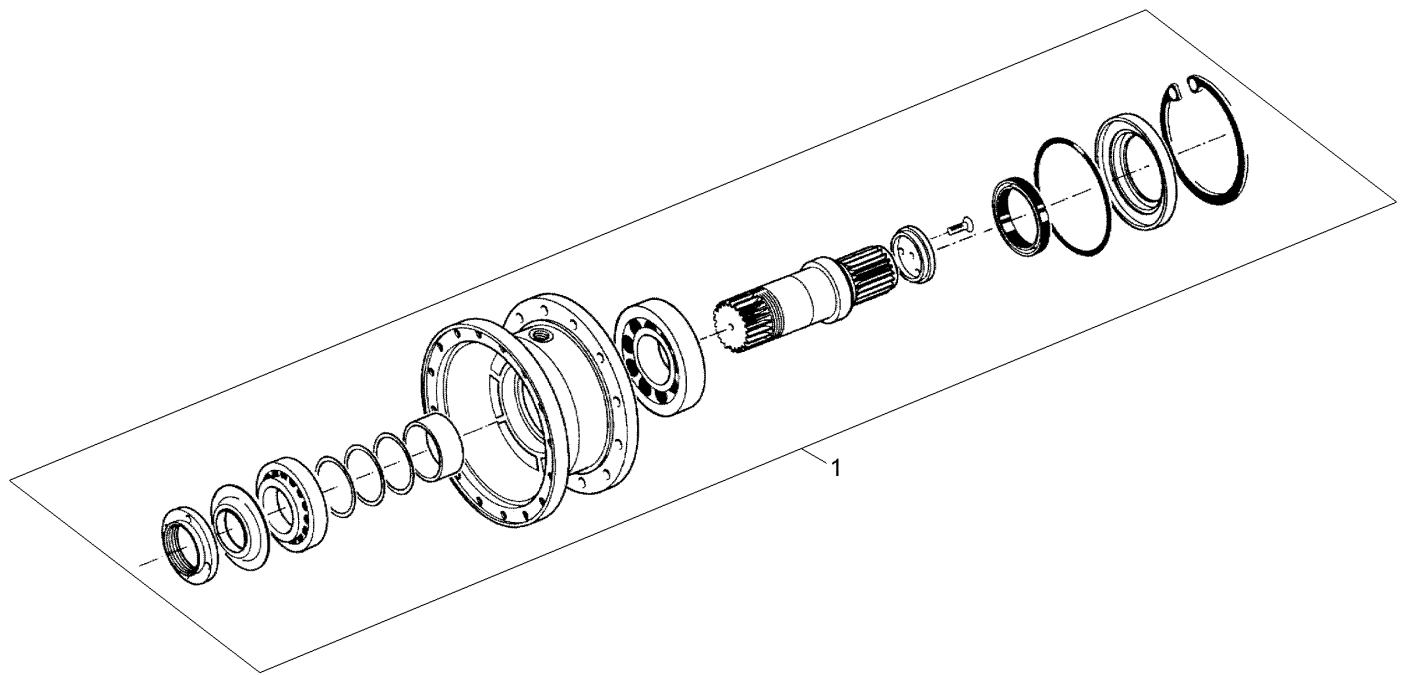
Rotary Box Assembly No. 133-6208-03



Rotary Box Assembly No. 133-6208-03 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-6144	1	Box-Rotary	10	3234-42	6	Screw-HHF
2	AU32GB4412	1	Cap-Bearing, Rotary	11	3253-23	6	Washer-Lock/Sp
3	AU8HS13033	4	Seal-Shaft	12	AU8HH51510	6	Screw-HH
4	AU8CF63007	2	Cup-Bearing	13	323-4	2	Screw-HH
5	AU8CF63008	2	Cone-Bearing	14	AU8PP70008	1	Plug-Site, Glass
6	AU32GB4465	1	Gear-Ring, Rotary	15	302-52	2	Fitting-Grease
7	AU32GB4420	1	Spindle-Rotary	16	AU8PP75012	1	Plug-Magnetic, Hex
8	AU32GB4460	1	Pinion-Rotary	17	115-9793	1	Breather
9	130-4512	1	Rotary Box Cover	18	AU8SM00502	1	Shim-Bearing Adjust (.005)

Planetary Gearbox Assembly No. AU8GB80064

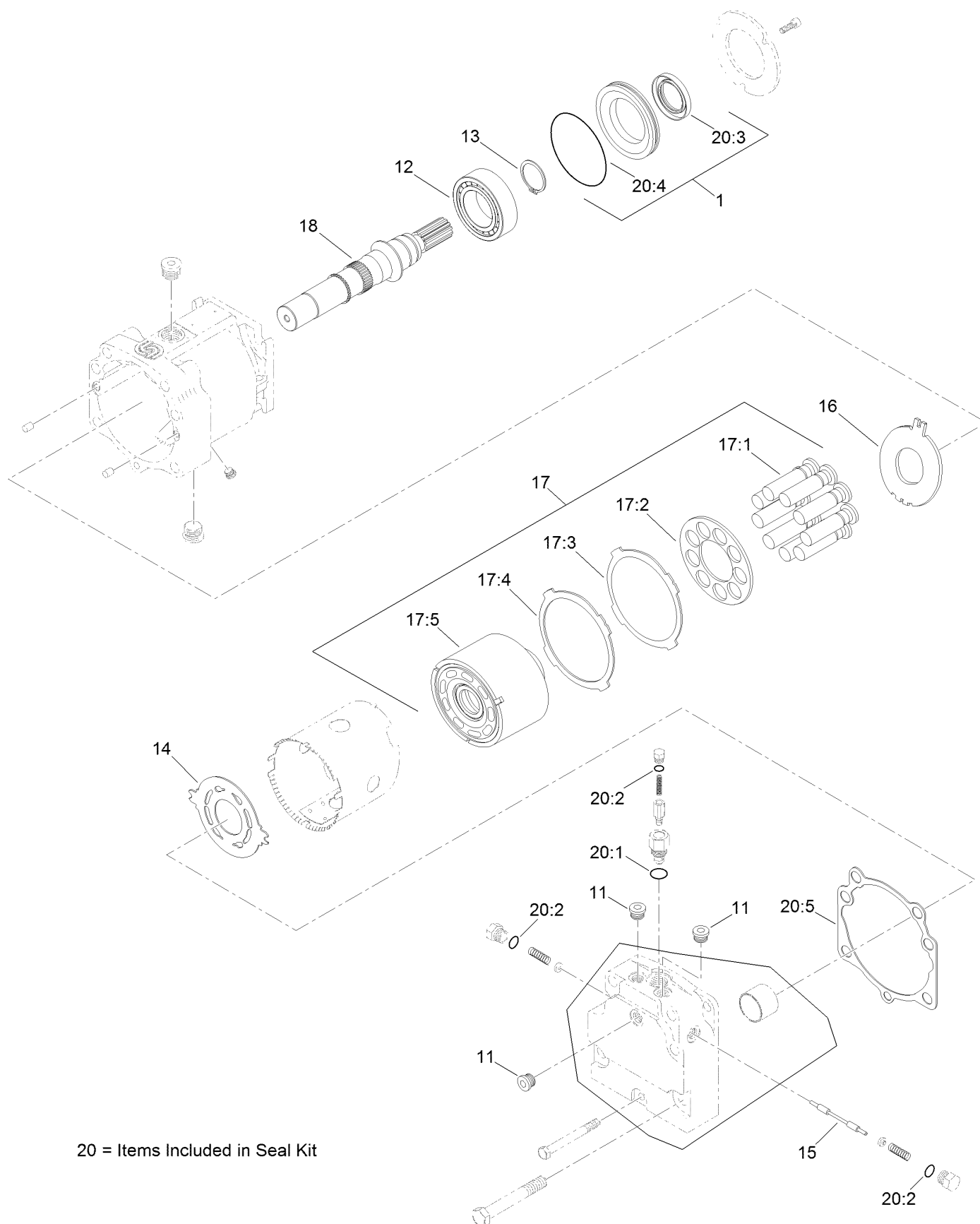


Planetary Gearbox Assembly No. AU8GB80064 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	136-6900	1	Output Kit
2	136-6901	1	Reduction Stage Kit
2:1	136-6902	2	O-Ring
2:2	136-6903	1	Ring-Toothed
3	136-6904	1	Cover-Connection
4	133-9504	1	O-Ring

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	136-6905	12	Screw
6	136-6906	1	Motor Adapter Kit
7	136-6908	1	Plug-Breather
8	136-6893	1	Plug-Level
9	136-6909	1	Plug-Magnetic
10	136-6907	8	Screw

Hydraulic Motor Assembly No. AU8HM50016

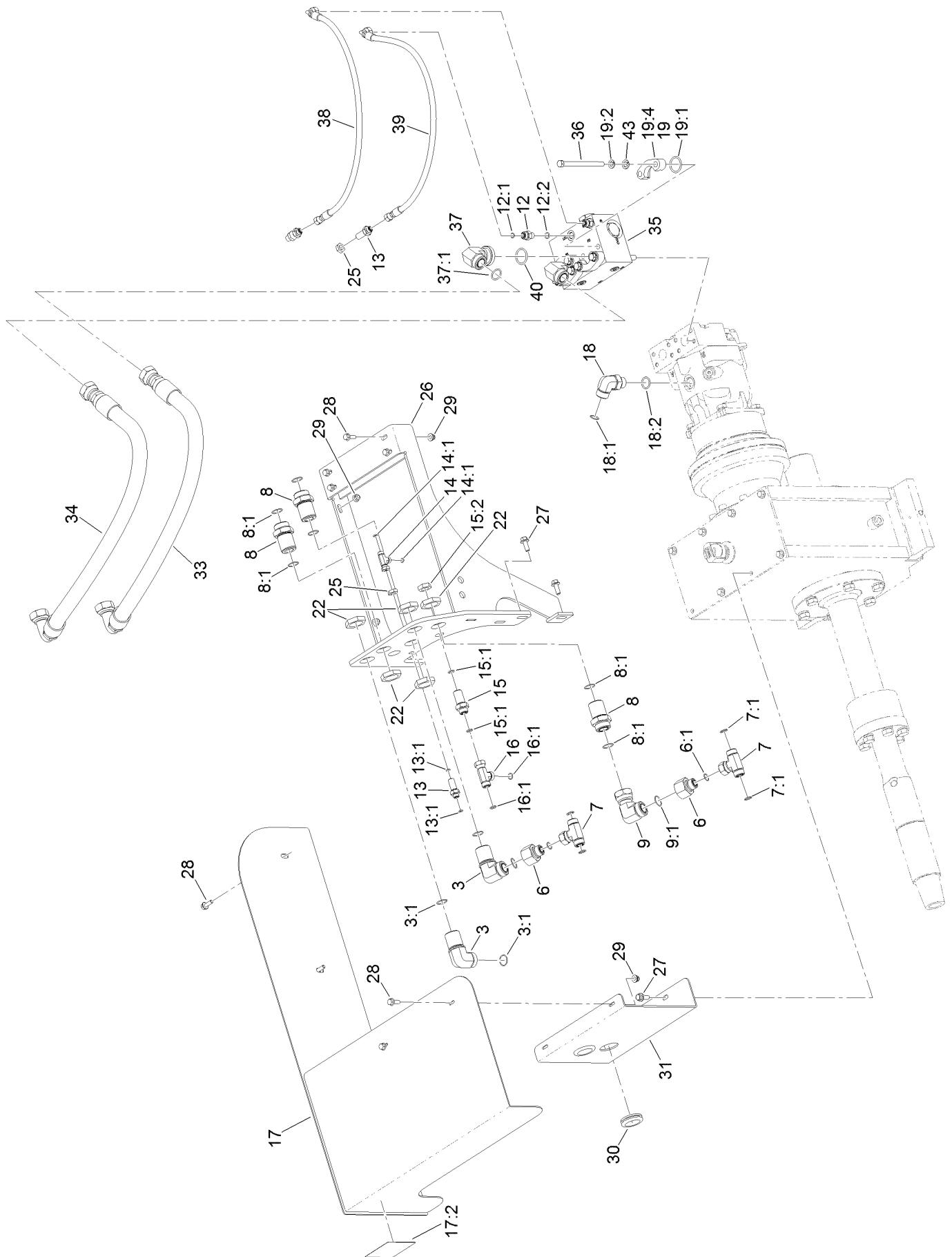


Hydraulic Motor Assembly No. AU8HM50016 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU434335A1	1	Shaft Seal Kit	17:3	131-7647	1	Retainer-Guide, Slipper
11	125-5300	1	Plug ASM	17:4	131-7648	1	Shim-Retainer, Slipper Guide
12	130-4582	1	Bearing-Roller	17:5		1	Cylinder Block ASM ●
13	130-4583	1	Ring-Retaining	18	131-7635	1	Shaft
14	131-7398	1	Plate-Valve	20	131-8630	1	Overhaul Seal Kit
15	131-7399	1	Spool-Shuttle	20:1	28-3570	1	O-Ring
16	131-7604	1	Plate-Thrust	20:2	131-8631	3	O-Ring
17	131-7627	1	Cylinder Block Kit W/ Speed Ring	20:3		1	Lip Seal ●
17:1	131-7609	9	Piston-Welded	20:4		1	O-Ring ●
17:2	131-7649	1	Guide-Slipper	20:5		1	Gasket-Cap, End ●

● Not serviced separately

Carriage Guard and Mounting Assembly

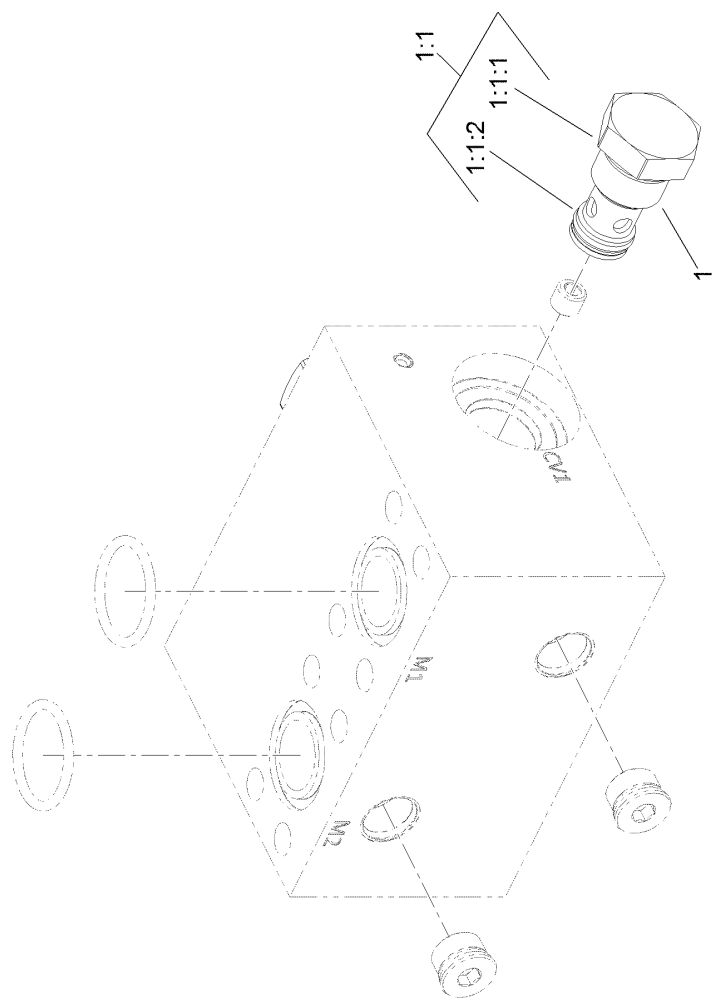
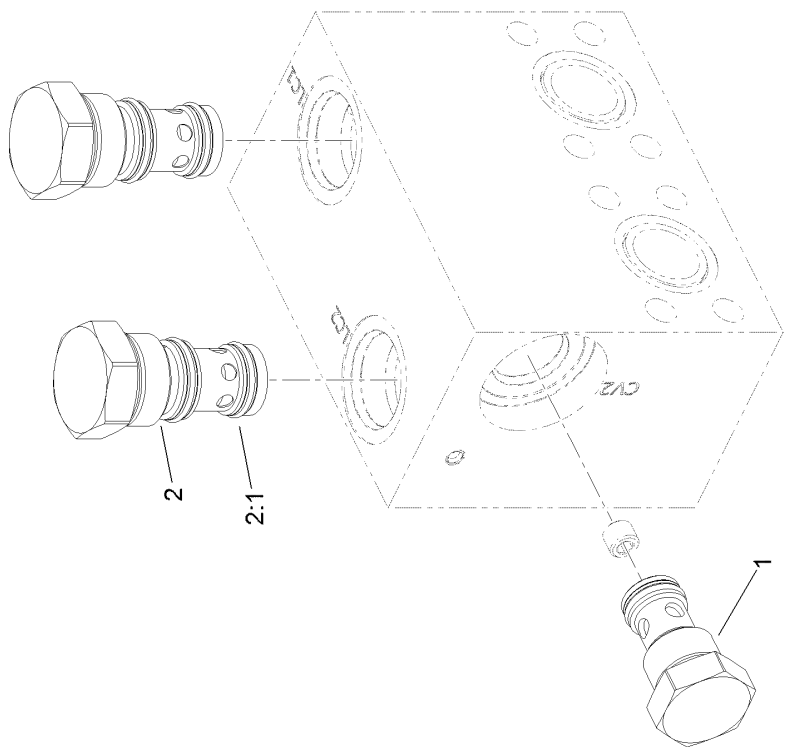


Carriage Guard and Mounting Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
3	AU8OL91616	2	Fitting-Elbow, 90	18:1	237-58	1	O-Ring
3:1	340-65	2	O-Ring	18:2	237-81	1	O-Ring
6	AU8OA81016	2	Fitting-Reducer	19	AU114285A1	2	HYD Flange Kit
6:1	237-65	1	O-Ring	19:1	121-3904	1	O-Ring
7	340-167	2	Fitting-HYD, Tee	19:2	3253-6	4	Washer-Lock
7:1	237-65	2	O-Ring	19:4		2	Flange-Half, Code 62 ●
8	106-0060	2	Adapter-HYD	22	340-128	5	Nut-Bulkhead
8:1	340-65	2	O-Ring	25	340-78	5	Nut-Lock
9	92-7645	1	Fitting-Swivel, 90 DEG	26	AU118010-03	1	Mount-Hose Carrier, Rotary
9:1	340-65	1	O-Ring	27	3234-42	5	Screw-HHF
12	340-2	3	Fitting-HYD, Straight	28	33104-025	8	Screw-HHF
12:1	237-22	1	O-Ring	29	104-3082	8	Nut-Lock, HHF
12:2	237-42	1	O-Ring	30	103-7706	2	Grommet
13	94-1444	3	Union-Bulkhead	31	AU119009-03	1	Plate-Support, Guard
13:1	237-21	2	O-Ring	33	131-9032	1	HYD Hose
14	340-151	1	Fitting-HYD	34	131-9031	1	HYD Hose
14:1	237-75	2	O-Ring	35	127-0886	1	Spike Clipper Manifold ASM
15	340-161	1	Fitting-Bulkhead	36	133-9625	8	Screw-HH
15:1	237-30	2	O-Ring	37	133-9495	2	Fitting-Elbow 90 Degree
15:2	340-127	1	Nut-Bulkhead	37:1	340-65	1	O-Ring
16	340-104	1	Fitting-HYD, Tee	38	131-9029	1	HYD Hose
16:1	237-30	2	O-Ring	39	131-9030	1	Hose ASM-HYD
17	130-4501	1	Carriage Guard ASM	40	121-3904	2	O-Ring
17:2	125-6107	2	Decal-Warning, Crushing	43	3253-7	8	Washer-Lock
18	340-142	1	Fitting-HYD, 90 DEG				

● Not serviced separately

Spike Clipper Manifold Assembly No. 127-0886



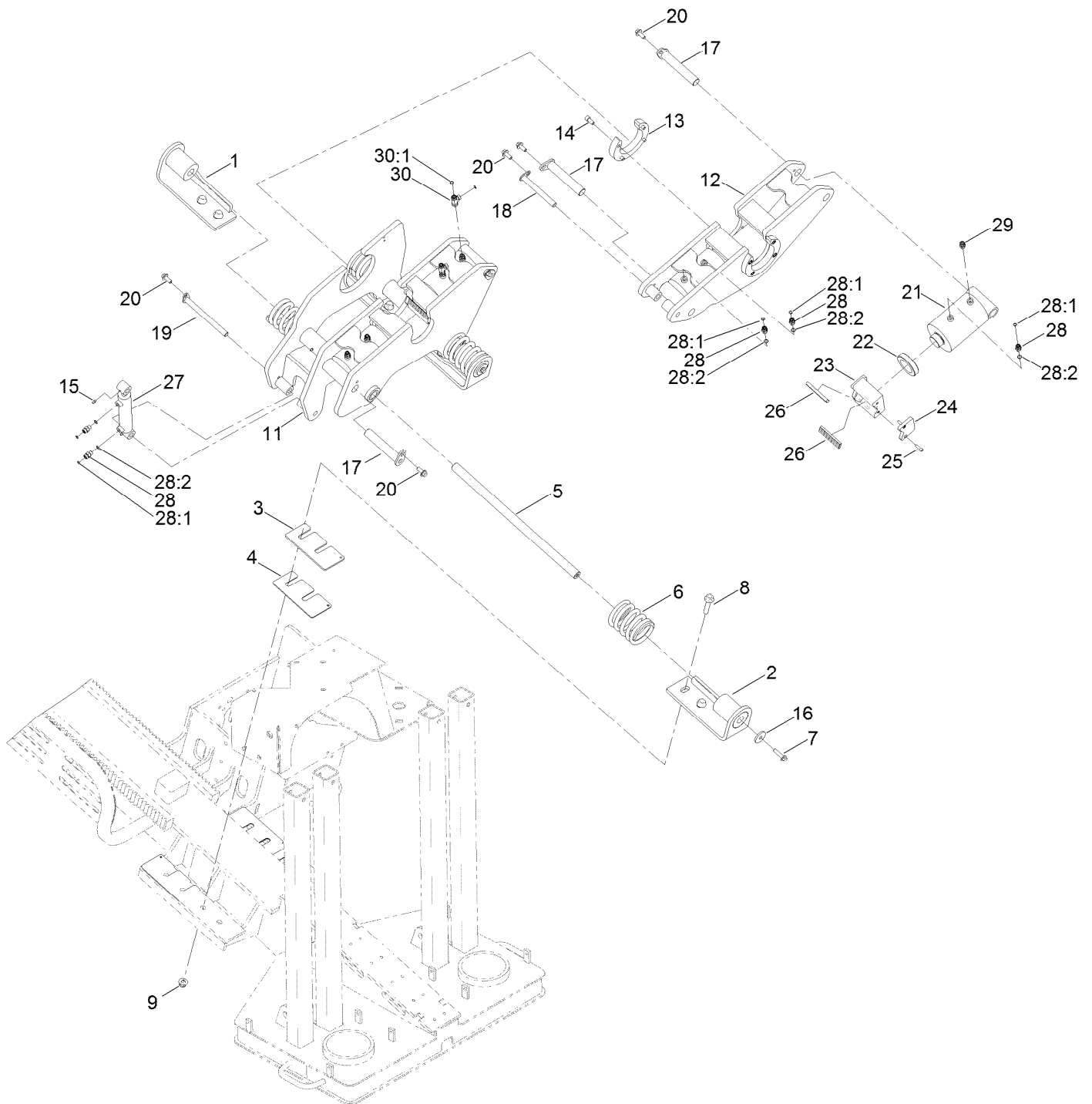
Spike Clipper Manifold Assembly No. 127-0886 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-4328	2	Valve-Check
1:1	125-4336	1	Seal Kit
1:1:1		1	O-Ring (-912) ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:1:2		1	O-Ring (-115) ●
2	136-1596	2	Valve-Logic Element
2:1	136-1595	1	Seal Kit

● Not serviced separately

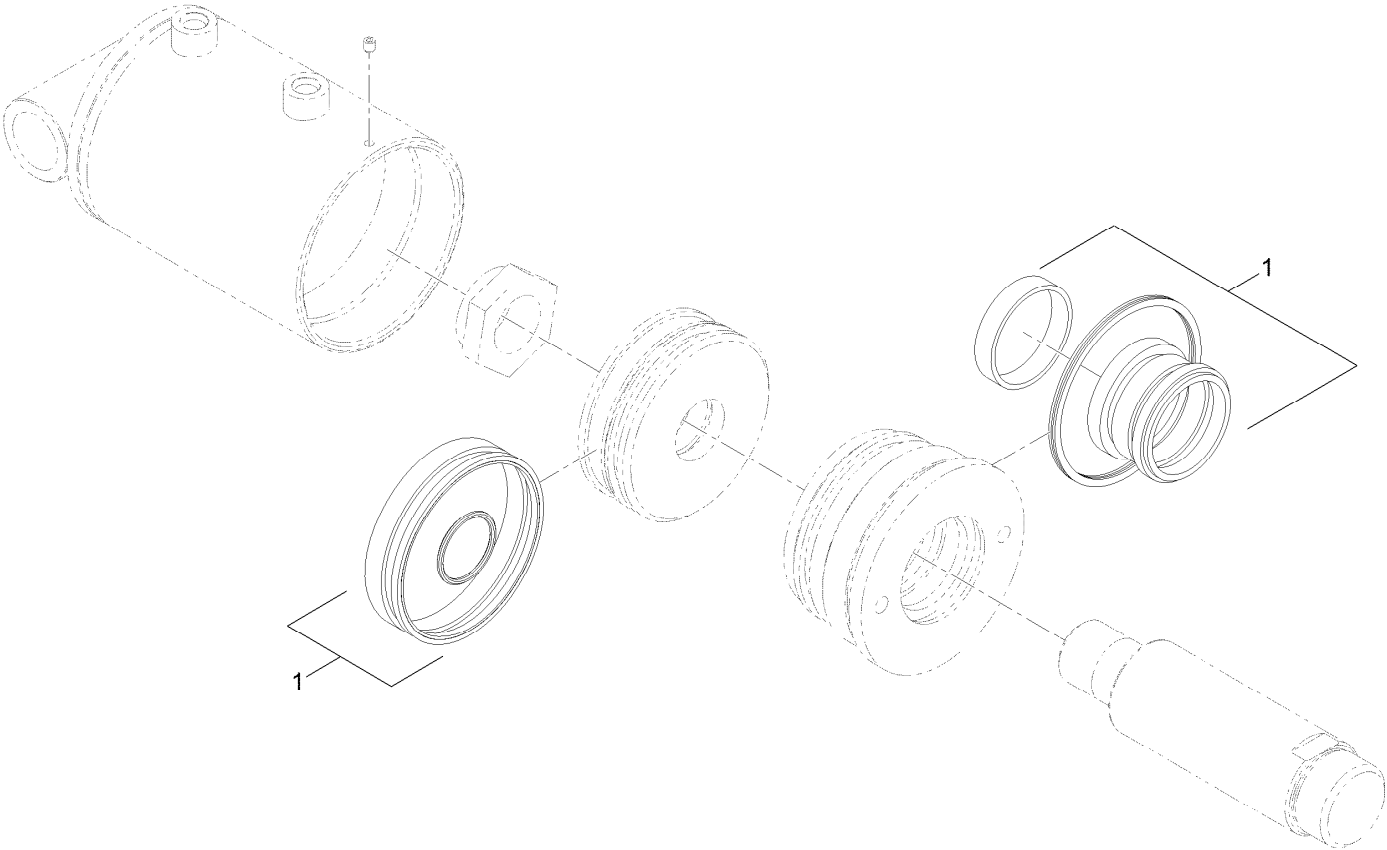
Front Wrench Assembly



Front Wrench Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU123857-03	2	Bracket-Mounting, Wrench	18	AU32GB6225	1	Pin-Retainng
2	AU123858-03	2	Bracket-Mounting, Wrench	19	AU32GB6226	1	Pin-Retaining
3	AU123875-03	4	Shim-Plate, Wrench	20	33106-030	6	Screw-HHF
4	AU123846-03	4	Shim-Plate, Wrench	21	AU116939	4	HYD Cylinder ASM
5	AU123860	2	Pin-Wrench	22	AU32GB6010-03	4	Bushing-Cylinder
6	AU123859	4	Spring-Compression	23	AU119049	4	Holder-Die, Wrench
7	AU100348	4	Screw-HHF	24	AU119046-03	8	Retainer-Die, Wrench
8	AU100364	8	Screw-Flange	25	98-5828	16	Screw-HSH
9	AU100529	8	Nut-HHF	26	AU305643	8	Tong-Die
11	130-4505-03	1	Front Wrench ASM	27	AU8HC10007	1	HYD Cylinder ASM
12	125-6514-03	1	Rear-Wrench	28	340-2	8	Fitting-HYD, Straight
13	AU119038-03	2	Guide-Wrench	28:1	237-22	1	O-Ring
14	93-8752	8	Screw-HSH	28:2	237-42	1	O-Ring
15	302-57	6	Fitting-Grease	29	AU126449	2	Fitting-Orifice
16	AU495-81269	4	Washer-Flat	30	340-115	2	Fitting-Tee, Swivel Nut
17	AU119056	4	Pin-W/Flag	30:1	237-22	2	O-Ring

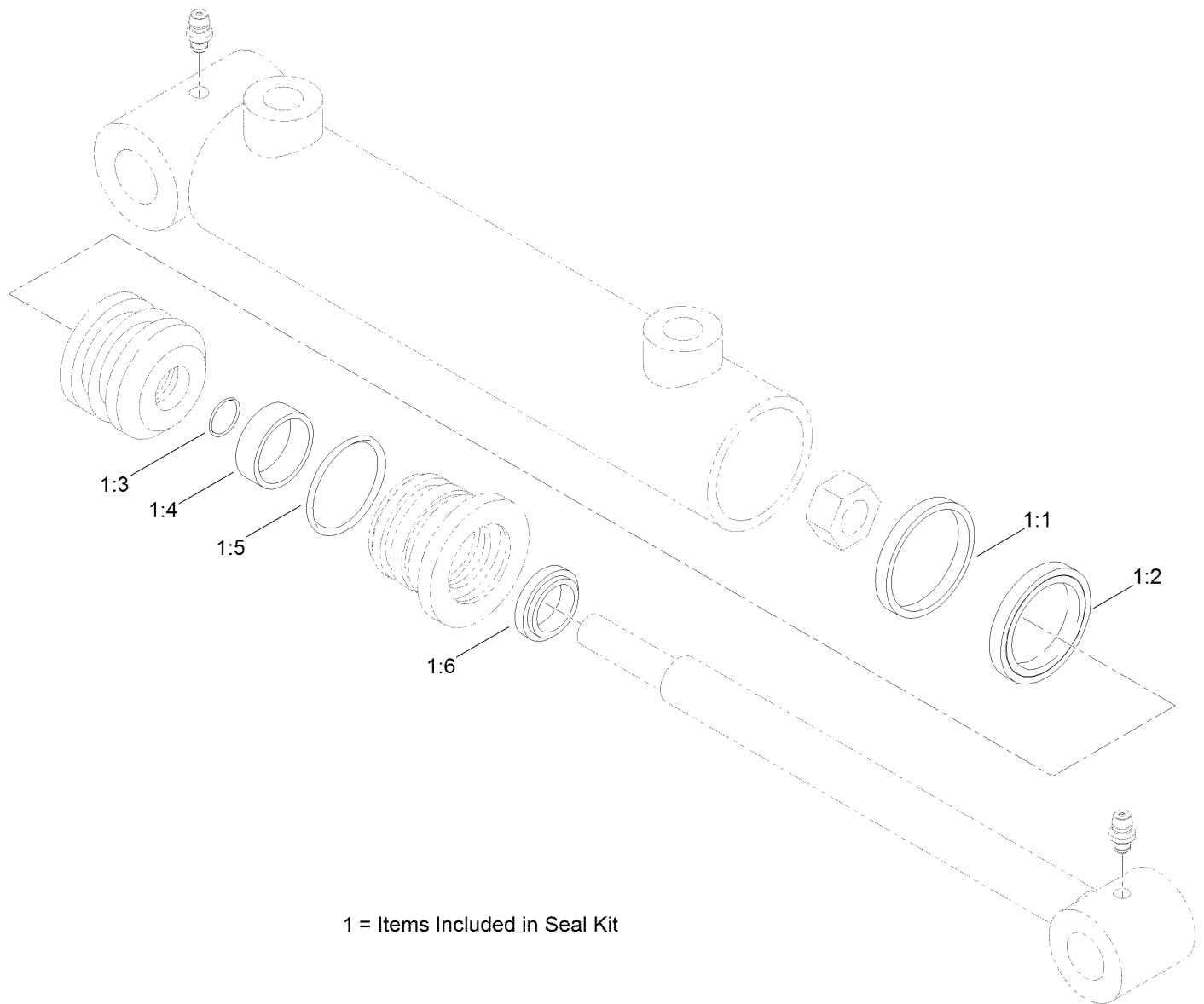
Hydraulic Cylinder Assembly No. AU116939



Hydraulic Cylinder Assembly No. AU116939 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU118200	1	Seal Kit

Hydraulic Cylinder Assembly No. AU8HC10007



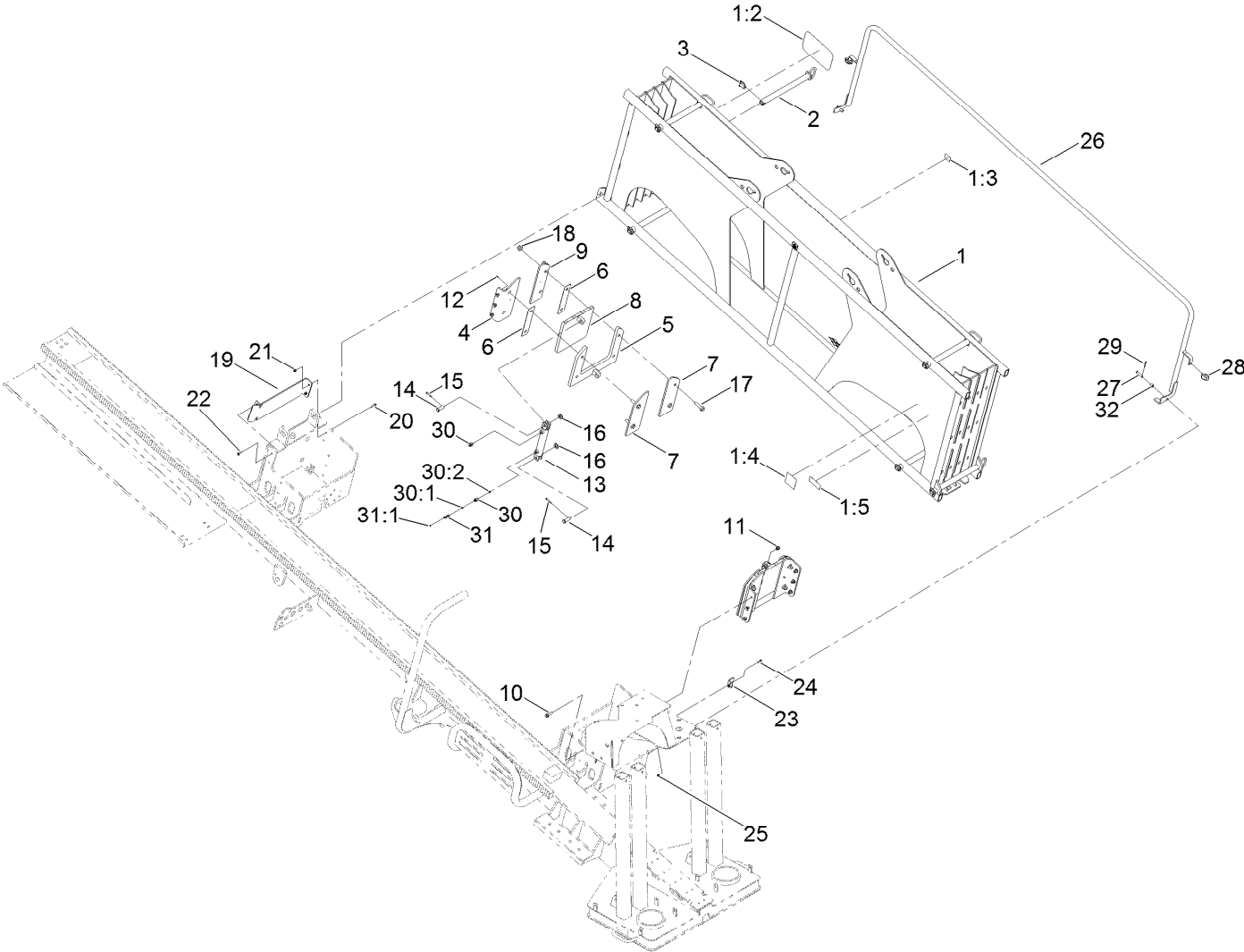
Hydraulic Cylinder Assembly No. AU8HC10007 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU8HC10007-1	1	Seal Kit
1:1		1	Ring-Wear ●
1:2		1	Seal-Psp ●
1:3		1	O-Ring ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:4		1	O-Ring ●
1:5		1	Seal-Polypak ●
1:6		1	Wiper-Rod ●

● Not serviced separately

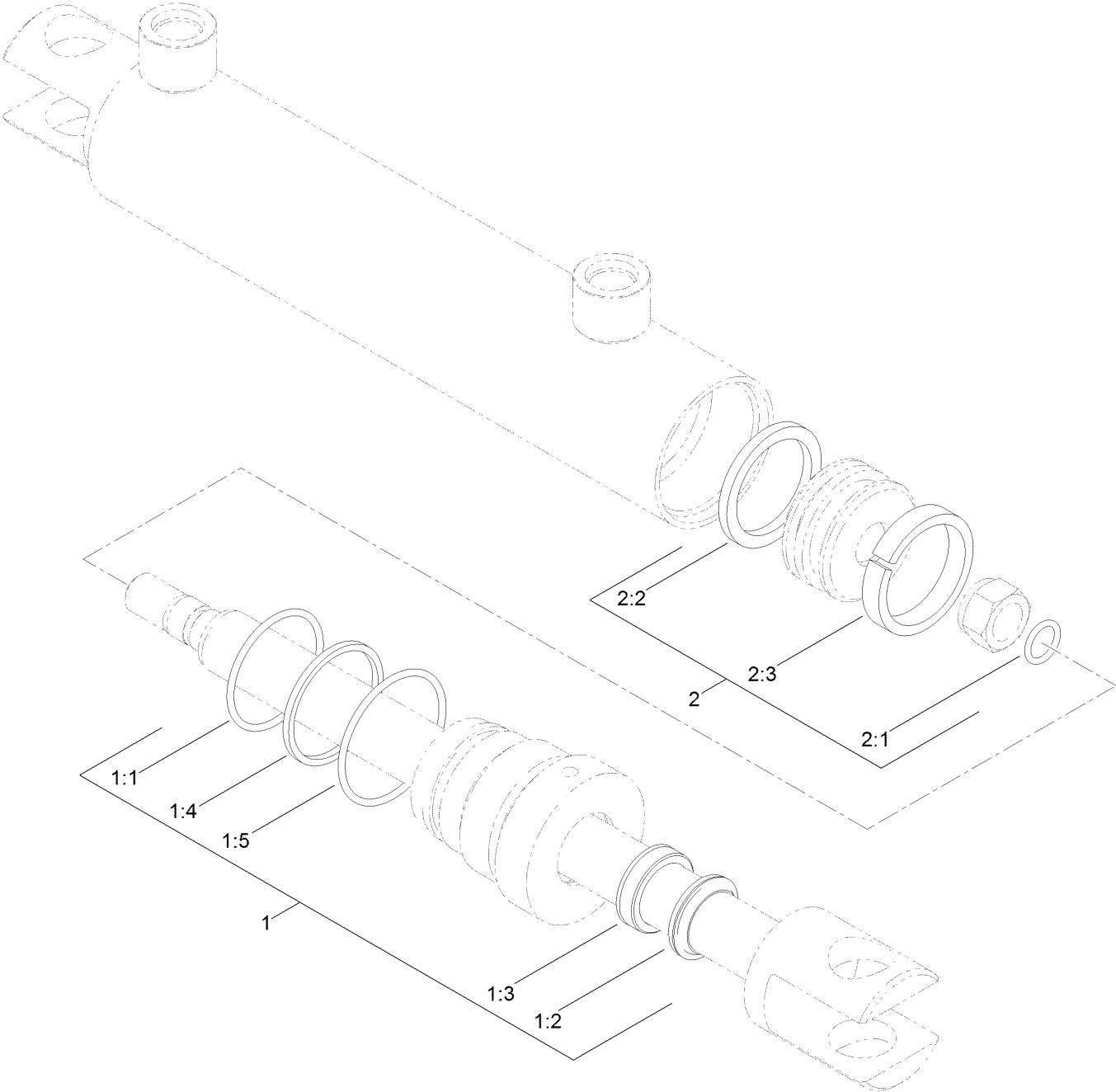
Rod Box Assembly



Rod Box Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0935	1	Rod Box ASM	17	AU100363	8	Screw-HHF
1:2	105-4222	1	Decal	18	AU100529	8	Nut-HHF
1:3	125-6151	2	Decal-Weight, Rod Basket	19	AU118917-03	2	Deflector
1:4	125-6107	1	Decal-Warning, Crushing	20	33104-035	4	Screw-HHF
1:5	125-6119	1	Decal-Danger, Entanglement	21	104-3082	4	Nut-Lock, HHF
2	AU118075-01	6	Pin-Rod Box	22	33104-030	4	Screw-HHF
3	AUD130037	6	Pin-Klik	23	AU119037-03	1	Bracket-Angle, Rod Ldr Guard
4	AU118322-03	2	Plate-Mounting, Elevator	24	33103-025	2	Screw-HHF
5	AU121928-03	2	Plate-Elevator	25	81-0130	2	Nut-Flange, NI
6	AU118323-03	4	Plate-Shim, Elevator	26	AU119031-01	1	Guard
7	AU118325-03	4	Plate-Support, Elevator	27	AU109964	2	Pin-Clevis
8	AU121929-03	2	Mount-Cylinder, Elevator	28	283-71	2	Pin-Lynch
9	AU118326-03	2	Plate-Mounting, Elevator	29	3272-19	2	Pin-Cotter
10	AU100347	12	Screw-HHF	30	340-1	4	Fitting-HYD, Straight
11	AU100528	12	Nut-HHF, Lock	30:1	237-21	1	O-Ring
12	302-57	4	Fitting-Grease	30:2	237-42	1	O-Ring
13	AU118214	2	HYD Cylinder ASM	31	AU111506	2	Fitting-Straight
14	AUH30262	4	Pin-Clevis	31:1	237-21	1	O-Ring
15	3272-30	4	Pin-Cotter	32	57-4230	1	Spacer-Tubular
16	3256-28	4	Washer-Flat				

Hydraulic Cylinder Assembly No. AU118214



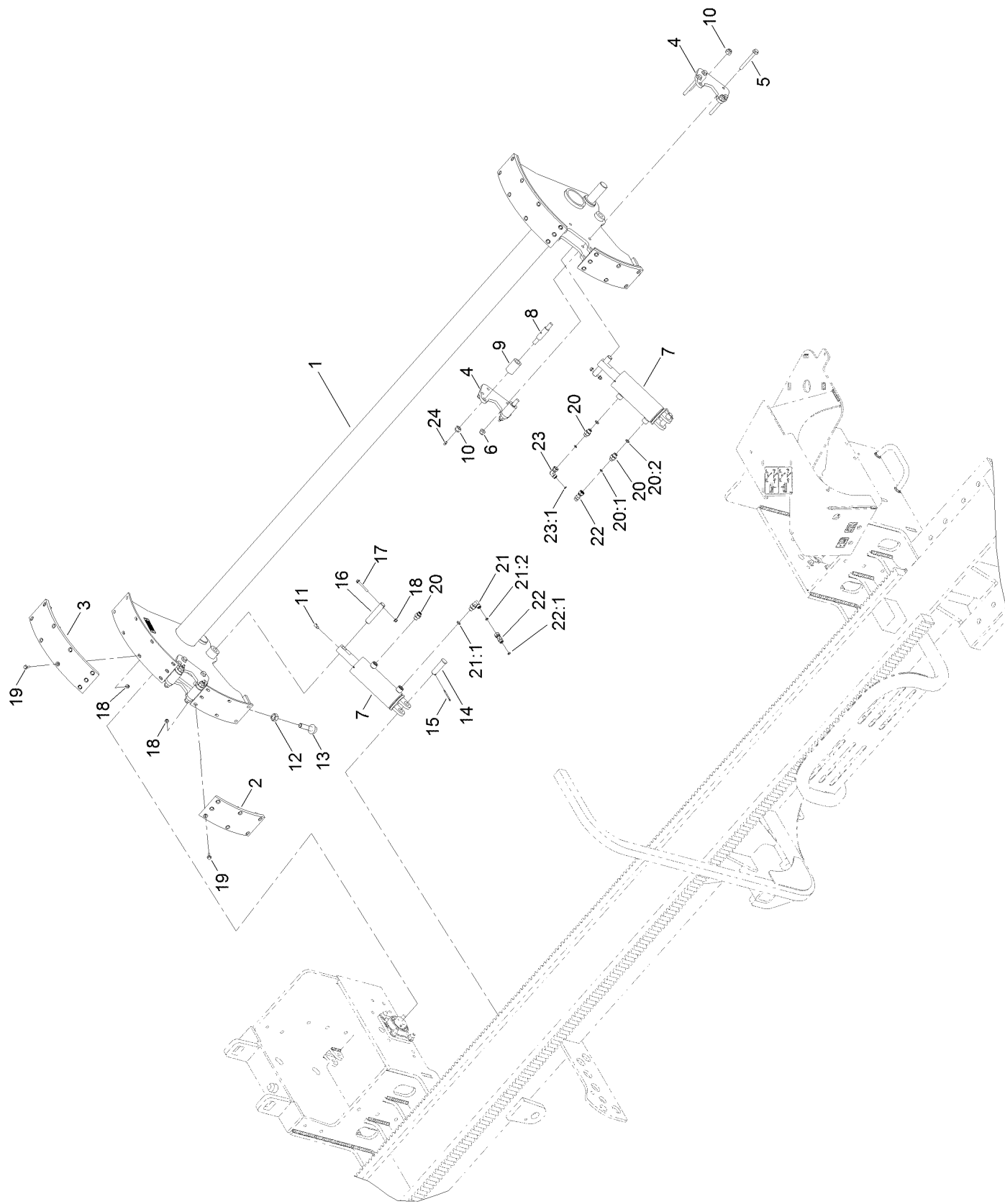
Hydraulic Cylinder Assembly No. AU118214 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-0170	1	Gland Seal Kit
1:1		1	O-Ring ●
1:2		1	Seal-Wiper, Rod ●
1:3		1	Seal-Rod ●
1:4		1	Ring-Back Up ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1:5		1	O-Ring ●
2	131-0171	1	Piston Seal Kit
2:1		1	O-Ring ●
2:2		1	Seal-Psp ●
2:3		1	Ring-Wear ●

● Not serviced separately

Rod Loader Cam Assembly



Rod Loader Cam Assembly (continued)

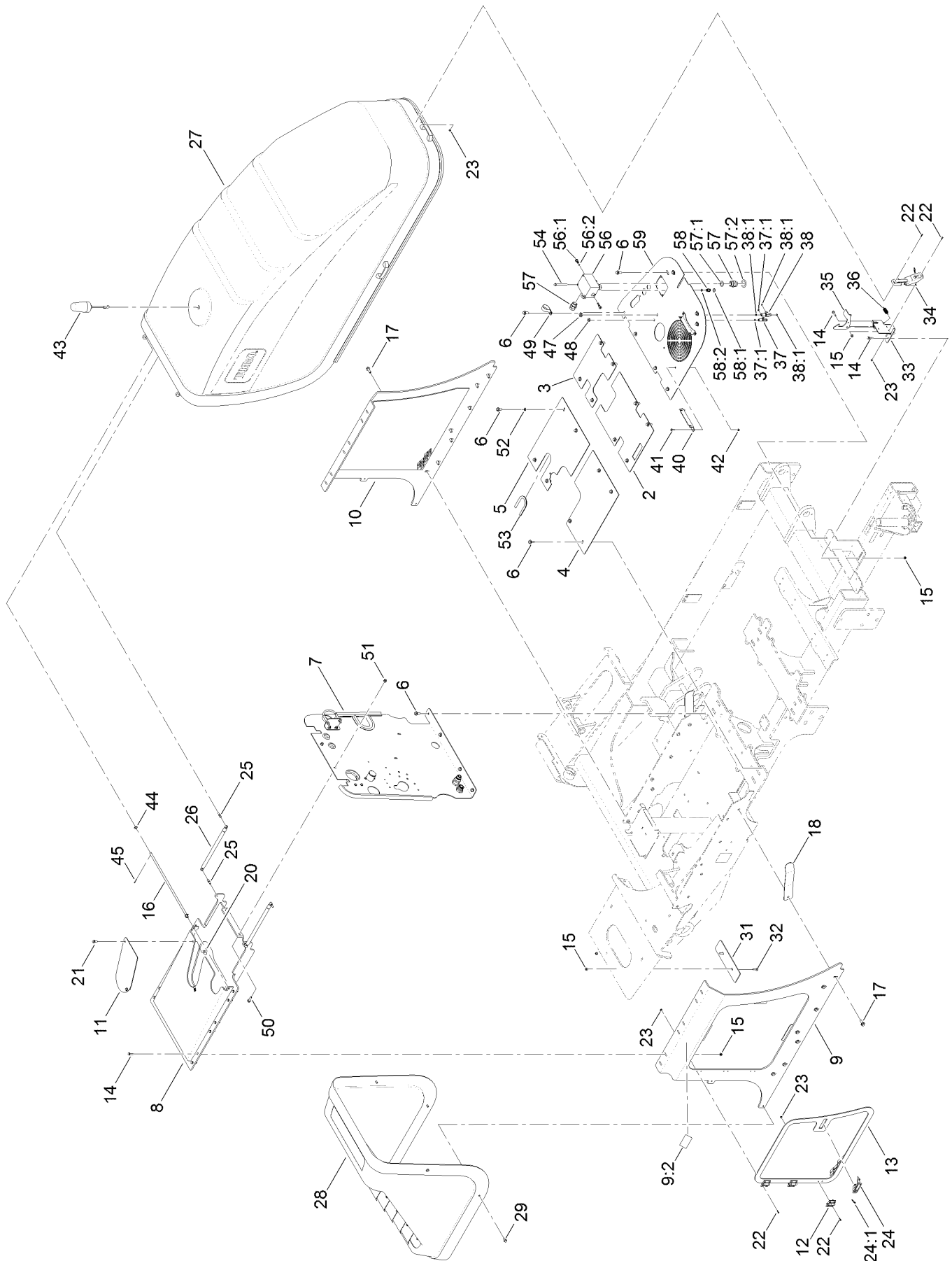
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-0139	1	Rod Loader Cam	16	AU117427	2	Pin-Straight
2	AU117305	2	Pad-Wear, Rod Loader (Short)	17	33103-050	2	Screw-HHF
3	AU117284	2	Pad-Wear, Rod Loader (Long)	18	81-0130	34	Nut-Flange, NI
4	AU117358-03	4	Plate-Holder, Pipe	19	33103-025	32	Screw-HHF
5	33105-090	8	Screw-HHF	20	340-1	3	Fitting-HYD, Straight
6	103-9511	8	Nut-Lock, NI	20:1	237-21	1	O-Ring
7	AU120606	2	HYD Cylinder ASM	20:2	237-42	1	O-Ring
8	AU117339	4	Shaft-Roller, Pipe	21	340-82	1	Fitting-HYD, 90
9	AU117340	4	Tube-Roller	21:1	237-42	1	O-Ring
10	AU232-4118	8	Nut-Hex	21:2	237-21	1	O-Ring
11	302-40	2	Fitting-Grease, 90 DEG	22	AU111506	2	Fitting-Straight
12	33018-00	2	Nut-Hex	22:1	237-21	1	O-Ring
13	33108-060	2	Screw-HHF	23	92-2745	1	Fitting-Adaptor
14	AU109885	2	Pin-Clevis	23:1	237-21	1	O-Ring
15	3272-19	2	Pin-Cotter	24	302-57	4	Fitting-Grease

Hydraulic Cylinder Assembly No. AU120606

Hydraulic Cylinder Assembly No. AU120606 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU124046	1	Gland Seal Kit
2	AU124048	1	Piston Seal Kit

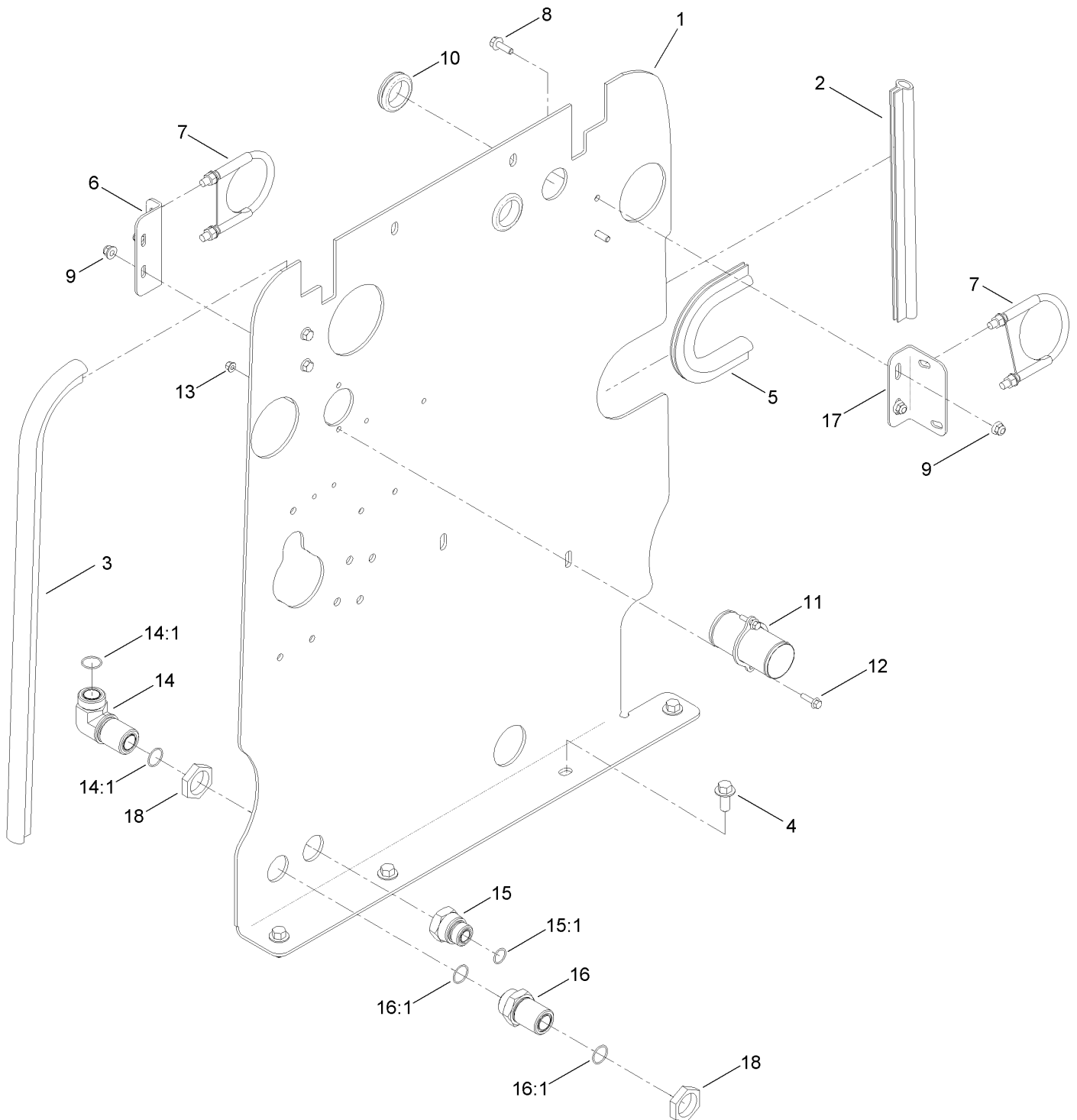
Hood Assembly



Hood Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	AU130551-03	1	Plate-Seal, Hood	34	133-9685	1	Latch-Draw, Lockable
3	AU130552-03	1	Plate-Seal, Hood	35	AU111869-03	1	Hook-Hood, Safety Latch
4	AU116572-03	1	Plate-Hood Seal	36	AU112966	1	Spring-Tension
5	AU116573-03	1	Plate-Hood Seal	37	AU8OR90404	1	Fitting-Tee
6	33106-020	24	Screw-HHF	37:1	237-21	3	O-Ring
7	127-5263	1	Bulk Head ASM	38	340-68	1	Fitting-Tee, Bulkhead
8	AU130383-03	1	Mounting-Hood	38:1	237-22	3	O-Ring
9	127-0938	1	Hood Mounting ASM	40	AU124320-03	2	Plate-Mount, Fan
9:2	125-6129	1	Decal-Warning, Hot Surface	41	33103-025	4	Screw-HHF
10	AU130385-03	1	Mount-Hood	42	81-0130	4	Nut-Flange, NI
11	AU130648-03	1	Plate-Cover	43	125-4528	1	Light-Strobe
12	AU123695	3	Hinge	44	110-7191	2	Washer-Thrust
13	AU130630-03	1	Door-Side	45	3272-11	2	Pin-Cotter
14	33104-035	15	Screw-HHF	47	340-70	1	Nut-Lock
15	104-3082	20	Nut-Lock, HHF	48	340-78	1	Nut-Lock
16	AU118537	1	Pin-Mount, Hood	49	127-0518	1	Clamp-R
17	33106-035	14	Screw-HHF	50	33105-035	2	Screw-HHF
18	AU32GB5016-03	2	Guide-Hood	51	103-9511	2	Nut-Lock, NI
20	AU100863	2	Nut-U	52	3255-2	1	Washer-Lock, EXT
21	108-1531	2	Screw-HHF	53	127-5316	1	Trim-Tank
22	360-0137	17	Screw-PRH	54	AU100328	3	Screw-HHF
23	32149-8	17	Nut-Keps	56	131-9035	1	Manifold-Valve, Check Clipper Spike
24	AU50GB2302	1	Latch-Trigger, Raised (W/Lock)	56:1	136-1592	2	Valve-Poppet, Check N.C.
24:1	131-0148	1	Key-Replacement	56:2	136-1593	2	Seal Kit
25	AU8HH96100	4	Stud-Ball	57	104-3797	4	Fitting-HYD, Straight
26	AU32GB5110	2	Spring-Gas	57:1	237-146	1	O-Ring
27	136-1554	1	Front Hood ASM	57:2	340-65	1	O-Ring
28	AU118302	1	Rear Hood ASM	58	340-2	2	Fitting-HYD, Straight
29	93-2569	4	Screw-HHF	58:1	237-22	1	O-Ring
31	AU119331-03	1	Plate-Sandwich, Hood Stop	58:2	237-42	1	O-Ring
32	33104-030	2	Screw-HHF	59	131-9037-03	2	Plate-Bulkhead
33	AU118512-03	1	Mount-Hood, Safety Latch				

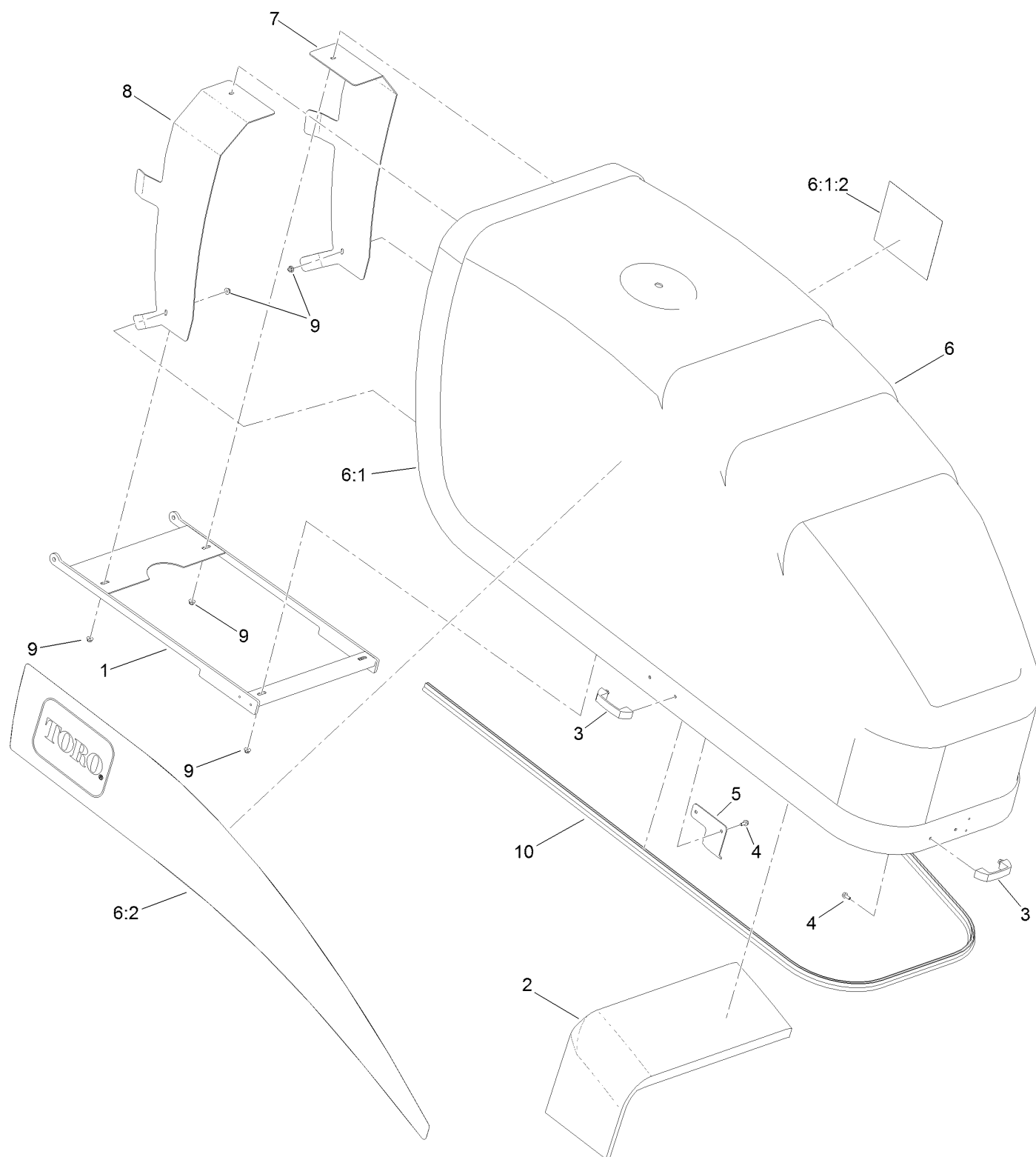
Bulkhead Assembly No. 127-5263



Bulkhead Assembly No. 127-5263 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0939	1	Bulk Head ASM	12	33103-025	2	Screw-HHF
2	127-5302	1	Seal-Bulb, LH	13	81-0130	2	Nut-Flange, NI
3	127-5301	1	Seal-Bulb, RH	14	AU8OL91616	1	Fitting-Elbow, 90
4	33106-020	4	Screw-HHF	14:1	340-65	2	O-Ring
5	127-5300	1	Seal-Bulb	15	AU8OA81216	1	Fitting-Reducer
6	AU120221-03	1	Plate-Support, Exhaust	15:1	237-58	1	O-Ring
7	AU8NG28118	2	Clamp-Guillotine	16	106-0060	1	Adapter-HYD
8	33104-025	4	Screw-HHF	16:1	340-65	2	O-Ring
9	104-3082	4	Nut-Lock, HHF	17	AU130659-03	1	Plate-Support, Charge Air
10	103-7706	2	Grommet	18	340-128	2	Nut-Bulkhead
11	AU120224-03	1	Tube-Bulkhead, Radiator				

Front Hood Assembly No. 136-1554

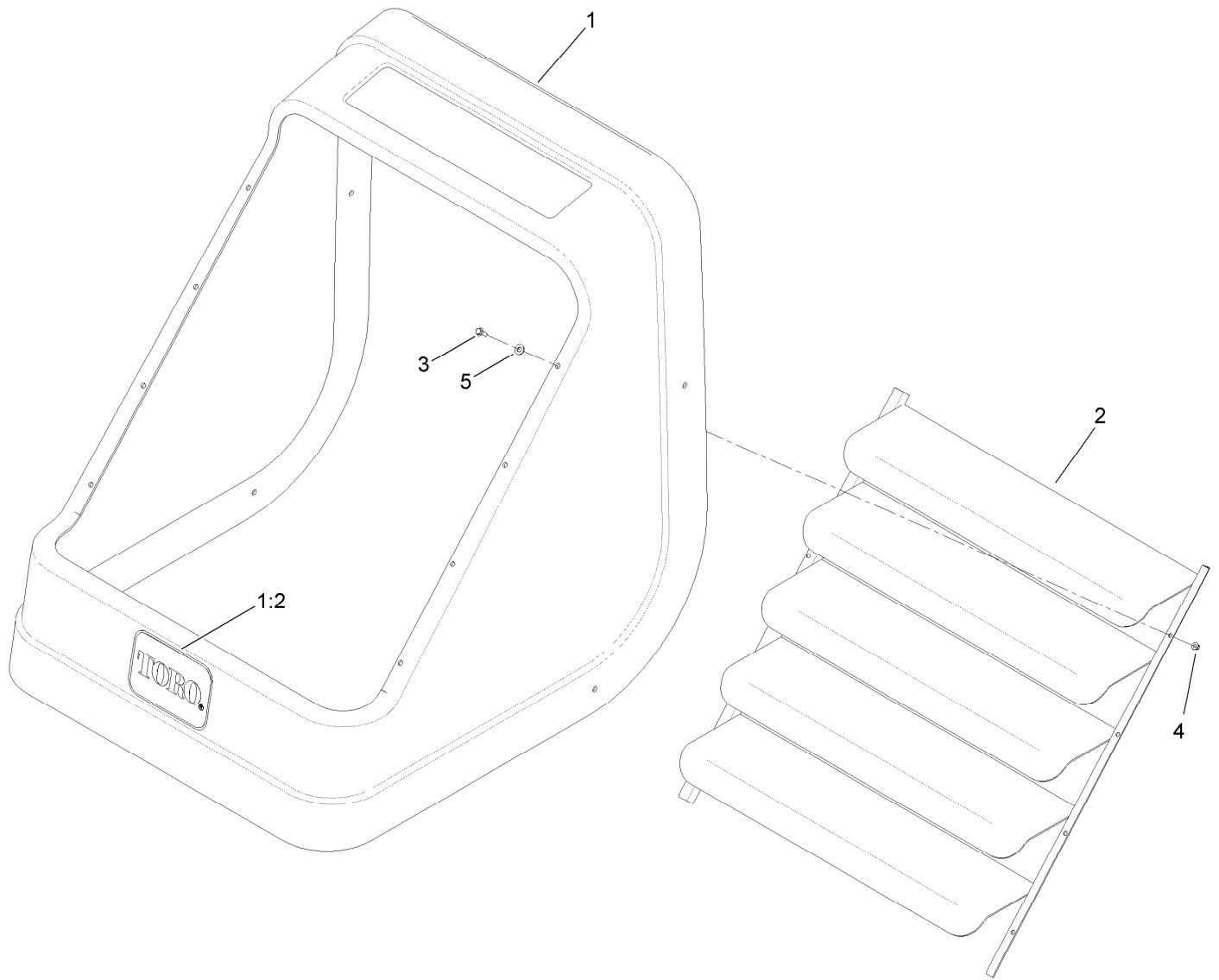


Front Hood Assembly No. 136-1554 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU118730	1	Hinge-Hood, Front	6:1:2	130-4496	1	Screen-Hood, Front
2	127-0955	1	Foam-Hood, Reflective	6:2	125-6154	1	Decal-Dd 4050
3	AU104854	2	Handle-Grab	7	AU123306	1	Plate-Catch, Hood
4	33104-020	4	Screw-HHF	8	AU123307	1	Plate-Catch, Hood
5	AU121776	1	Guide-Hood, Front	9	104-8301	6	Nut-Flange, NI
6	136-1555	1	Front Hood And Decal ASM	10	130-4548	1	Seal-Bulb
6:1		1	Hood-Front ●				

● Not serviced separately

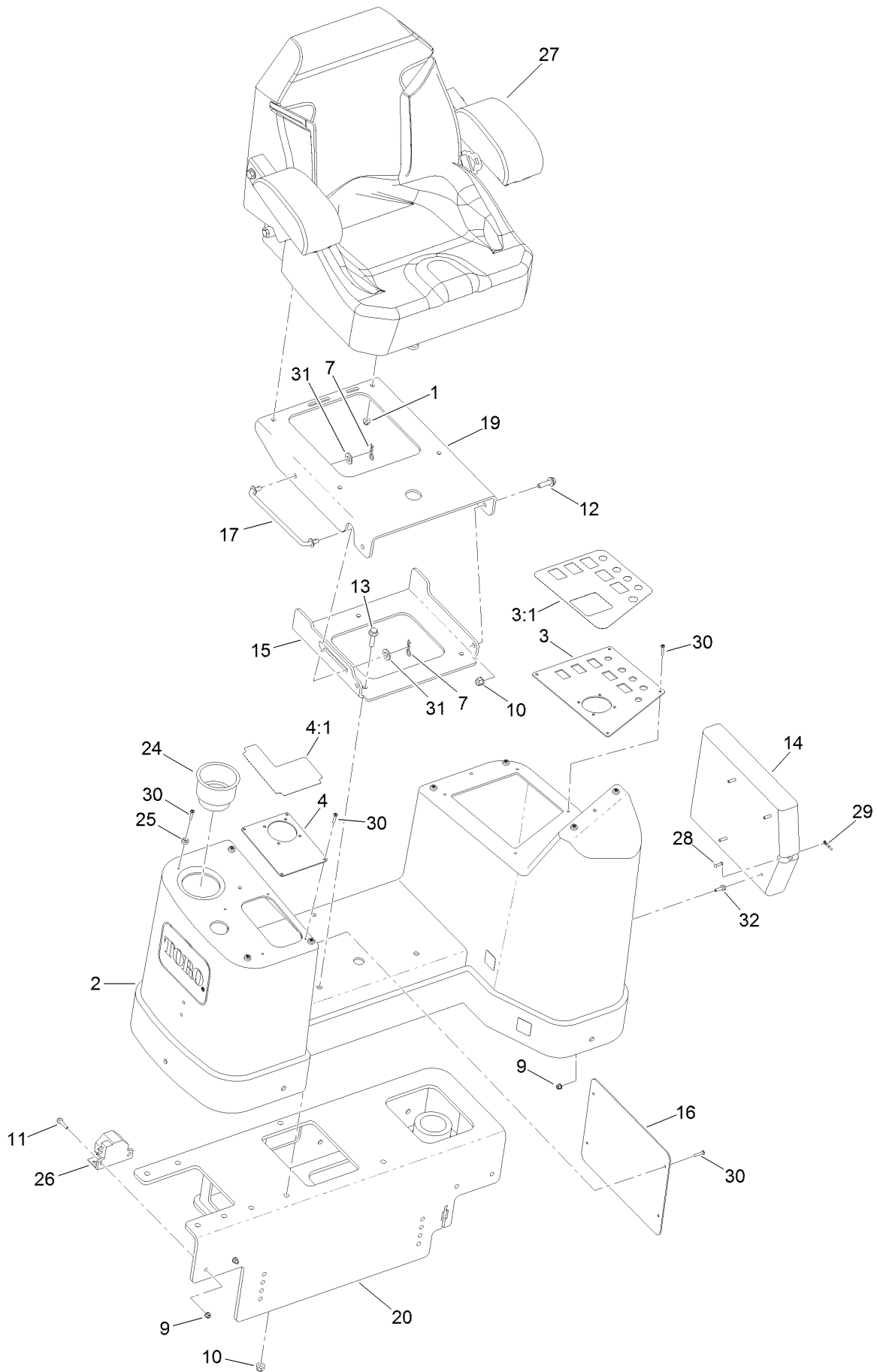
Rear Hood Assembly No. AU118302



Rear Hood Assembly No. AU118302 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	130-4476	1	Rear Hood ASM	3	33103-020	8	Screw-HHF
1:2	62-7400	1	Decal	4	120-9645	8	Nut-HHF
2	AU118366-03	1	Louver-Hood, Rear	5	3256-38	8	Washer-Flat

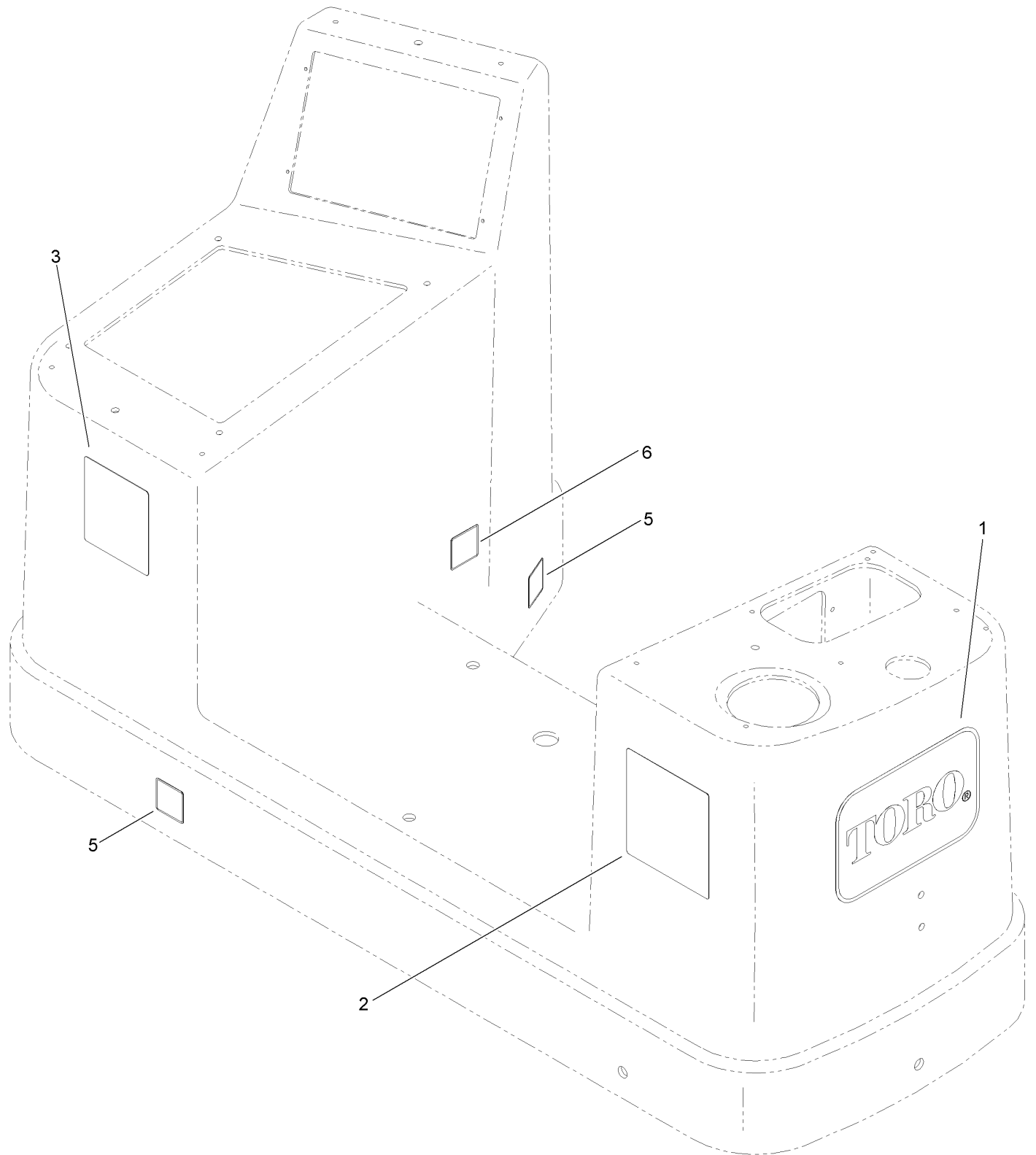
Operator Platform Assembly



Operator Platform Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	104-8300	4	Nut-Flange, NI	15	AU108632-03	1	Plate-Seat Mount, Bottom
2	127-0900	1	Operator Console ASM	16	AU108634-03	1	Plate-Seat, Inside Panel
3	127-0901	1	Switch Plate ASM	17	AU109357	1	Rod-Prop, Seat
3:1	125-6142	1	Decal-Left Joystick, Dd4045	19	AU117641-03	1	Plate-Seat Mount, Top
4	127-0902	1	Joystick Mounting Plate ASM	20	AU125016-03	1	Console-Operators
4:1	125-6125	1	Decal-Joystick, Right	24	AU8EO24121	1	Cup-Holder
7	3290-467	2	Pin-Hair	25	AU8EO24122	8	Grommet-Rubber
9	81-0130	6	Nut-Flange, NI	26	AU8EP29105	1	Alarm-Backup
10	103-9511	5	Nut-Lock, NI	27	133-6211	1	Seat-Toro, Standard
11	33103-030	2	Screw-HHF	28	AUR46463	1	Post-Manual
12	33105-035	2	Screw-HHF	29	AUR46465	1	Lanyard
13	33105-040	3	Screw-HHF	30	ST80070	20	Screw-PPH
14	AU103216	1	Holder-Manual	31	AU496-21053	2	Washer-Flat
				32	33103-020	4	Screw-HHF

Operator Console Assembly No. 127-0900

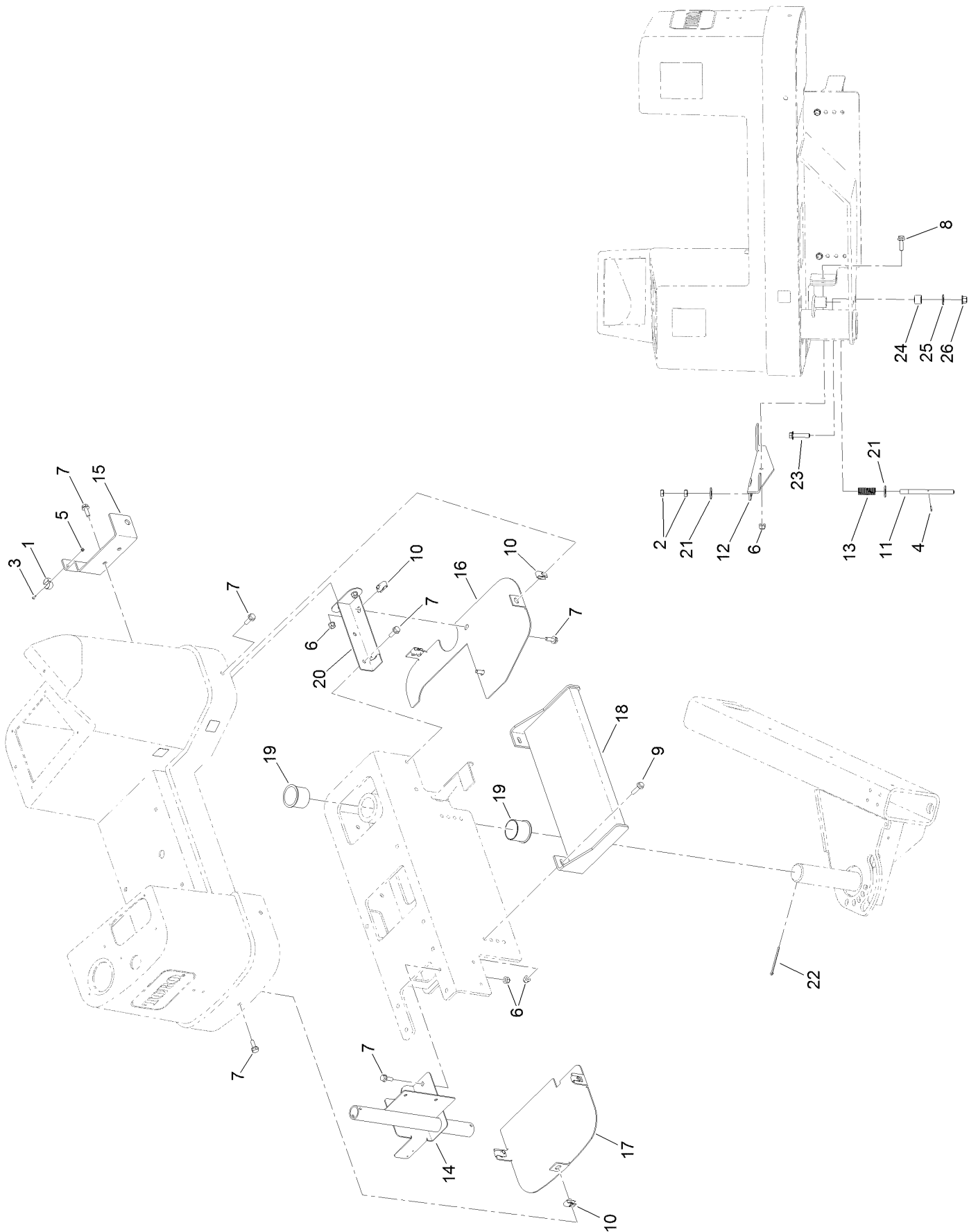


Operator Console Assembly No. 127-0900 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	62-7400	1	Decal
2	125-6109	1	Decal-Danger, Shock
3	125-6116	1	Decal-Danger, No Riders (Front)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	125-6140	2	Decal-Seat Adjust
6	125-6152	1	Decal-Seat Slide

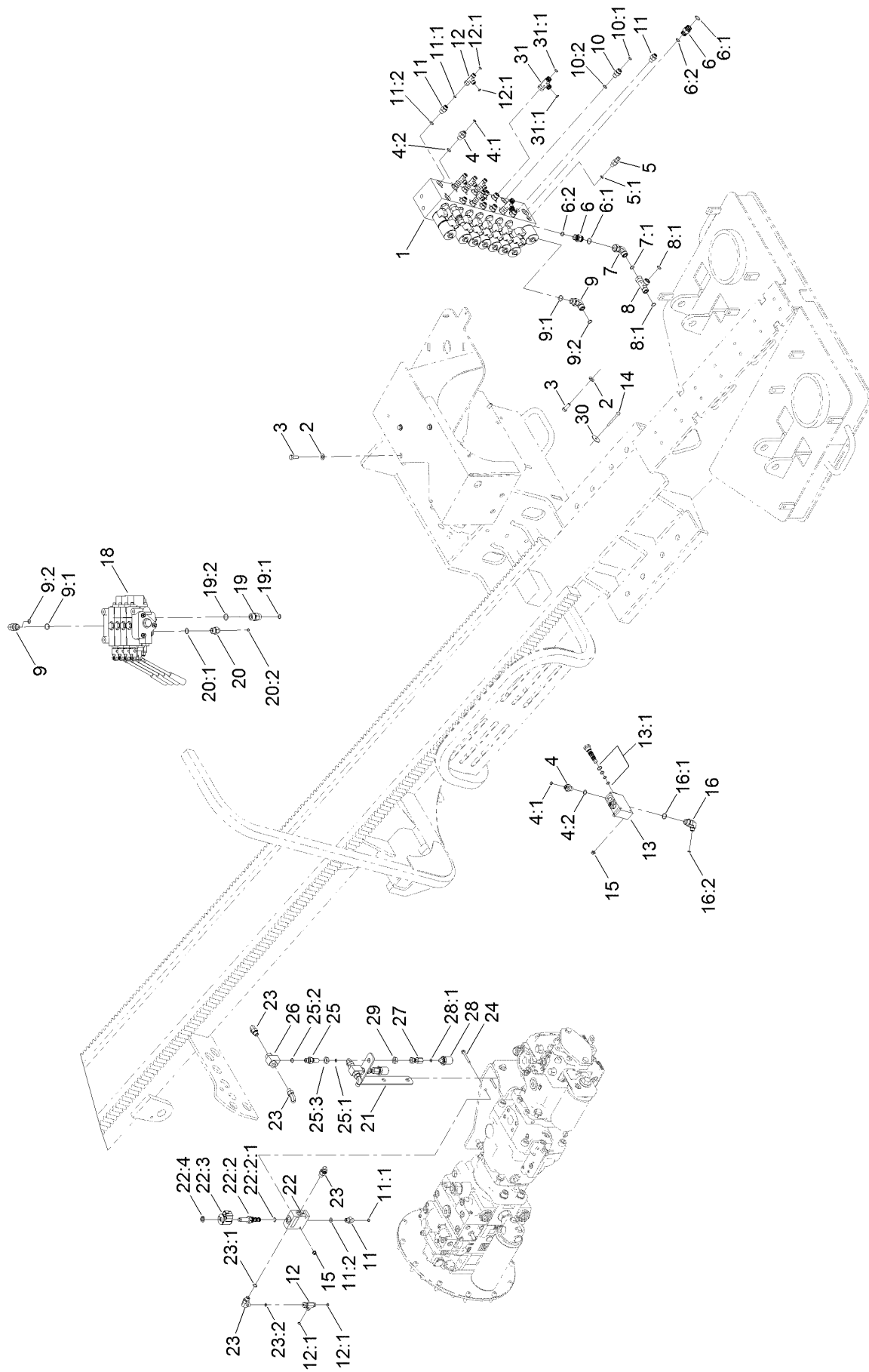
Operator Console Assembly



Operator Console Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	110-5677	2	Clip-Spring	14	AU114805-03	1	Mount-Umbrella
2	3218-5	2	Nut-Jam	15	AU115236-03	1	Plate-Retaining, Cord
3	3249-3	2	Screw-PRH	16	AU125024-03	1	Plate-Guard, Splash
4	3272-11	1	Pin-Cotter	17	AU125042-03	1	Plate-Guard, Splash
5	32149-6	2	Nut-Keps	18	AU12GB9202-03	1	Step
6	103-9511	7	Nut-Lock, NI	19	AU12GB9215	2	Bearing-Flanged
7	33105-030	13	Screw-HHF	20	AU12GB9228-03	1	Support-Shroud, Left
8	33105-035	1	Screw-HHF	21	AU495-81163	2	Washer-Flat
9	33105-040	2	Screw-HHF	22	AU432-1248	1	Pin-Cotter
10	AU100863	7	Nut-U	23	33106-050	1	Screw-HHF
11	AU108909	1	Rod-Swing, Seat	24	131-3402	1	Spacer
12	AU108997-03	1	Arm-Adjustment, Seat	25	3256-5	1	Washer-Flat
13	AU109011	1	Spring-Pivot Lock, Seat	26	115-1115	1	Nut-Lock, HHF

9 Section and 4 Spool Hydraulic Valve Assembly

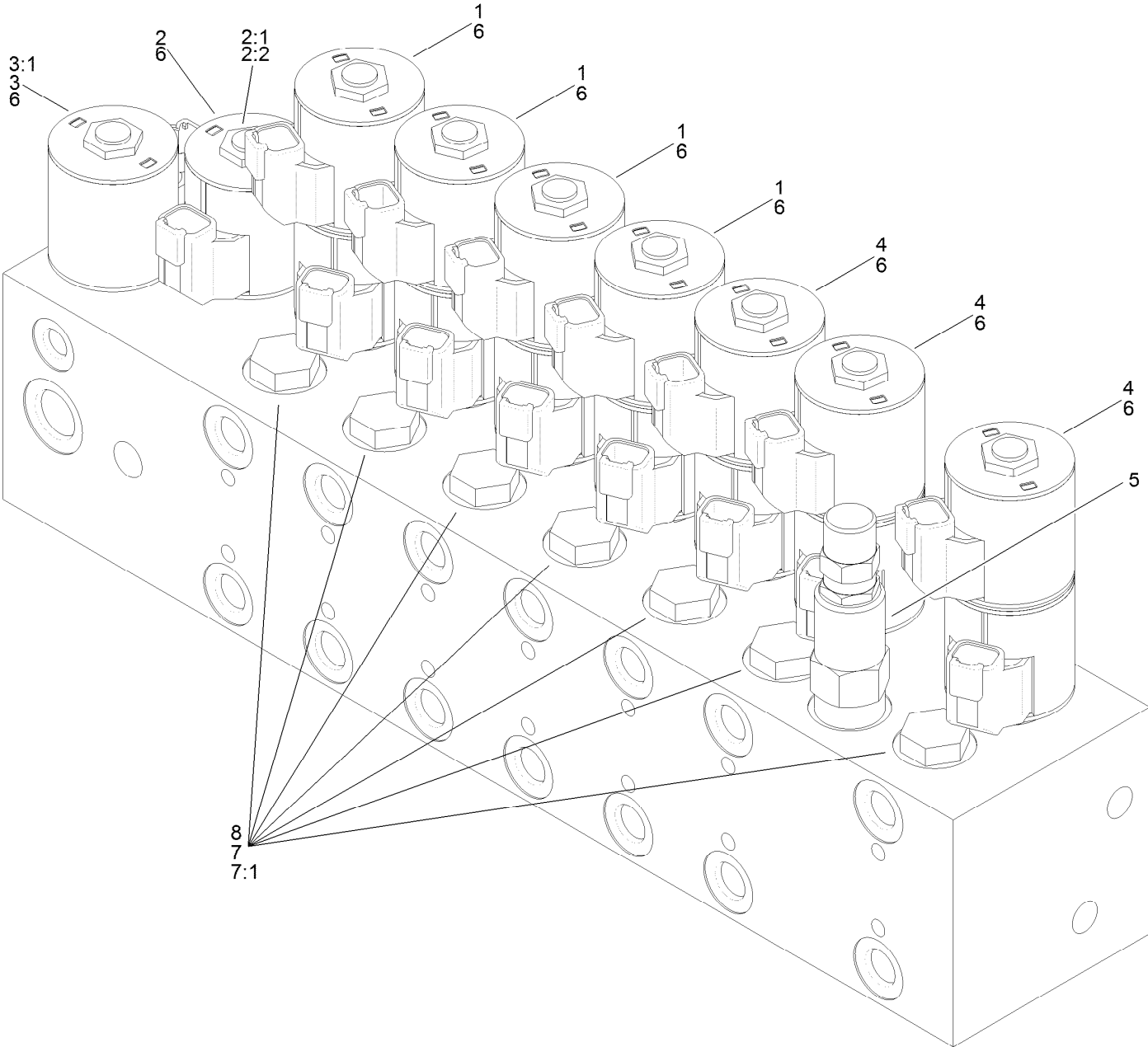


9 Section and 4 Spool Hydraulic Valve Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU111494	1	9 Section HYD Valve ASM	16:1	237-79	1	O-Ring
2	3256-24	7	Washer-Flat	16:2	237-21	1	O-Ring
3	323-6	7	Screw-HH	18	AU8HV80159	1	4 Spool HYD Valve ASM
4	AU112767	3	Fitting-Straight	19	340-6	2	Fitting-HYD, Straight
4:1	237-21	1	O-Ring	19:1	237-30	1	O-Ring
4:2	237-42	1	O-Ring	19:2	237-80	1	O-Ring
5	354-77	1	Fitting-Quick	20	340-133	8	Adapter ASM
5:1	237-78	1	O-Ring	20:1	237-79	1	O-Ring
6	340-4	2	Fitting-HYD, Straight	20:2	237-21	1	O-Ring
6:1	237-30	1	O-Ring	21	AU121543-03	1	Bracket-Valve, Shuttle
6:2	237-79	1	O-Ring	22	125-4467	1	Valve-Solenoid
7	94-6031	1	Fitting-HYD	22:2	106-1995	1	Valve-3 Way
7:1	237-30	1	O-Ring	22:2:1	110-8773	1	Seal Kit
8	340-104	1	Fitting-HYD, Tee	22:3	112-0197	1	E Coil-12V Dc
8:1	237-30	2	O-Ring	22:4	110-2634	1	Nut-Coil
9	340-98	2	Fitting-HYD, 90 DEG	23	340-82	6	Fitting-HYD, 90
9:1	237-79	1	O-Ring	23:1	237-42	1	O-Ring
9:2	237-30	1	O-Ring	23:2	237-21	1	O-Ring
10	340-2	6	Fitting-HYD, Straight	24	33103-050	2	Screw-HHF
10:1	237-22	1	O-Ring	25	AU8OAA0406	2	Fitting-Straight
10:2	237-42	1	O-Ring	25:1	237-21	1	O-Ring
11	340-1	9	Fitting-HYD, Straight	25:2	237-42	1	O-Ring
11:1	237-21	1	O-Ring	25:3	340-78	1	Nut-Lock
11:2	237-42	1	O-Ring	26	AU270083	2	Valve-Shuttle, Load
12	340-151	6	Fitting-HYD	27	AU8SA60404	2	Fitting-Straight
12:1	237-75	2	O-Ring	28	125-6579	2	Transducer
13	AU112323	1	HYD Flow Divider Valve ASM	28:1	131-8636	1	O-Ring ●
13:1	131-8637	1	Seal Kit ●	29	340-78	2	Nut-Lock
14	AU100315	2	Screw-Flange, Metric	30	3256-55	2	Washer-Flat
15	81-0130	4	Nut-Flange, NI	31	340-115	2	Fitting-Tee, Swivel Nut
16	108-5687	1	Fitting-Elbow, 90	31:1	237-22	2	O-Ring

● Not illustrated

9 Section Hydraulic Valve Assembly No. AU111494



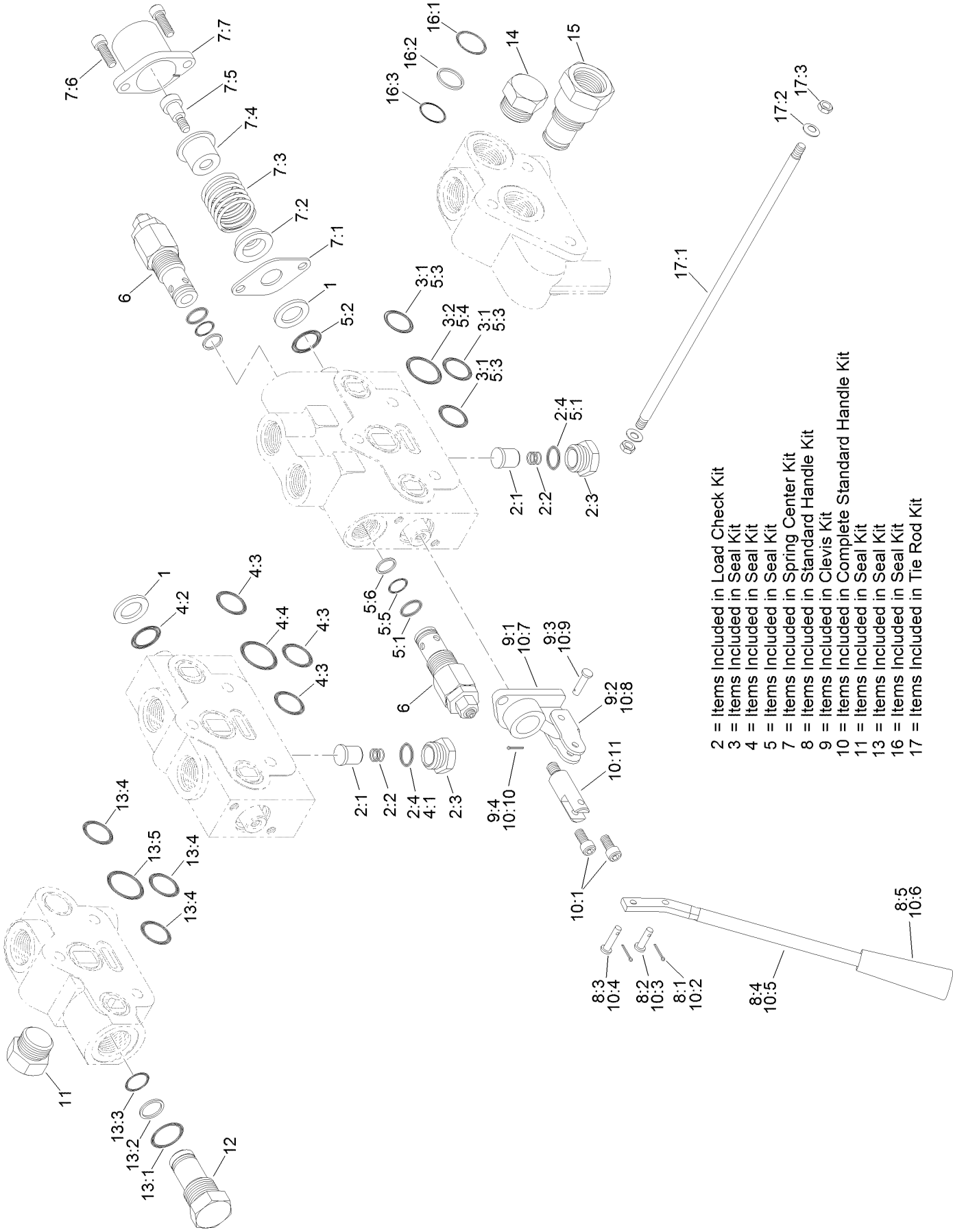
9 Section Hydraulic Valve Assembly No. AU111494 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU112257	4	Valve-Cartridge, Motor Spool
2	115-5400	1	Solenoid Valve ASM
2:1	107-7813	1	Seal Kit
2:2	110-2634	1	Nut-Coil
3	120-0913	1	Valve-Solenoid
3:1	105-9159	1	Seal Kit
4	AU116738	3	Solenoid ASM

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	AU116739	1	Valve-Reducing, Pressure
6	119-4619	16	Coil-Solenoid
7	107-7524	14	Check Valve ASM
7:1	105-9156	1	Seal Kit
8	120-2554	7	Piston-Pilot
9	131-6513	2	Plug-Port ●
10	131-6514	1	Plug-Port ●

● Not illustrated

Stakedown Valve Assembly No. AU8HV80159



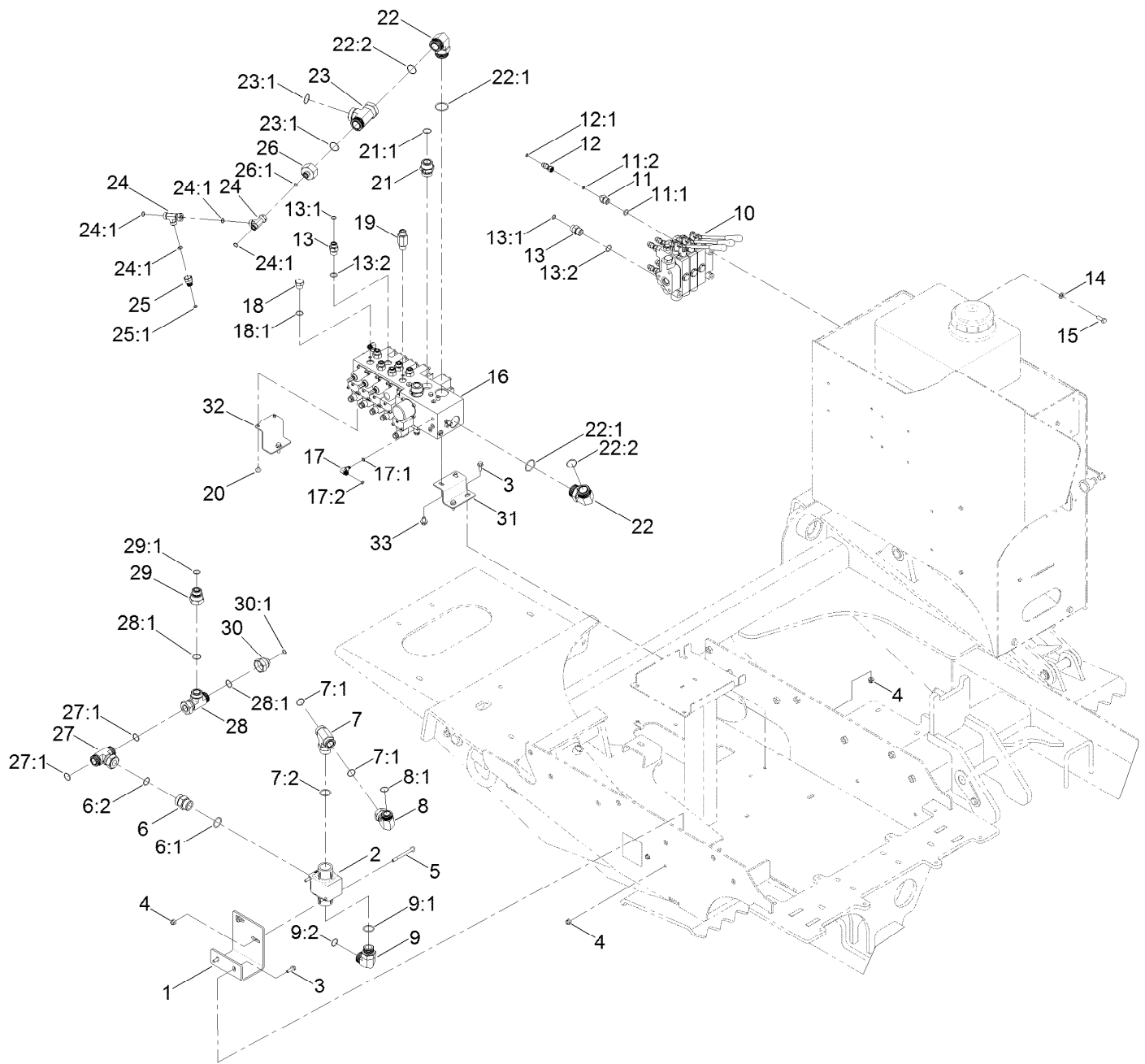
- 2 = Items Included in Load Check Kit
- 3 = Items Included in Seal Kit
- 4 = Items Included in Seal Kit
- 5 = Items Included in Seal Kit
- 7 = Items Included in Spring Center Kit
- 8 = Items Included in Standard Handle Kit
- 9 = Items Included in Clevis Kit
- 10 = Items Included in Complete Standard Handle Kit
- 11 = Items Included in Seal Kit
- 13 = Items Included in Seal Kit
- 16 = Items Included in Seal Kit
- 17 = Items Included in Tie Rod Kit

Stakedown Valve Assembly No. AU8HV80159 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-6549	8	Washer-Back Up, Spool	9	131-6539	4	Clevis Kit
2	131-6532	4	Load Check Kit	9:1		1	Clevis ●
2:1		1	Poppet-Check, Load ●	9:2		1	Link ●
2:2		1	Spring-Check, Load ●	9:3		1	Pin-Clevis ●
2:3		1	Plug-Check, Load ●	9:4		1	Pin-Cotter ●
2:4		1	O-Ring ●	10	131-6540	4	Complete Standard Handle Kit
3	131-6533	4	Replacement Seal Kit	10:1		2	Screw-Cap ●
3:1	22-8600	3	O-Ring	10:2		2	Pin-Cotter ●
3:2		1	O-Ring ●	10:3		1	Pin-Clevis ●
4	131-6534	2	Svw Replacement Seal Kit	10:4		1	Pin-Clevis ●
4:1		1	O-Ring ●	10:5		1	Handle ●
4:2		2	O-Ring ●	10:6	AU30604519	1	Knob
4:3	22-8600	3	O-Ring	10:7		1	Clevis ●
4:4		1	O-Ring ●	10:8		1	Link ●
5	131-6535	2	Svh Replacement Seal Kit	10:9		1	Pin-Clevis ●
5:1		3	O-Ring ●	10:10		1	Pin-Cotter ●
5:2		2	O-Ring ●	10:11		1	Adapter-Spool ●
5:3	22-8600	3	O-Ring	11	131-6542	1	Plug-Port
5:4		1	O-Ring ●	12	131-6543	1	Plug-No Relief
5:5		2	Washer-Backup ●	13	131-6544	1	Replacement Inlet Seal Kit
5:6		2	O-Ring ●	13:1		1	O-Ring ●
6	131-6536	4	Cartridge-Relief	13:2		1	Washer-Back Up ●
7	131-6537	4	Spring Center Kit	13:3		1	O-Ring ●
7:1		1	Plate-Retainer ●	13:4	22-8600	3	O-Ring
7:2		1	Cup-Stop, Inner ●	13:5		1	O-Ring ●
7:3		1	Spring-Centering ●	14	131-6546	1	Plug
7:4		1	Cup-Stop, Outer ●	15	131-6547	1	Cartridge-Beyond, Power
7:5		1	Adapter-Spool ●	16	131-6548	1	Outlet Section Seal Kit
7:6		2	Screw-Cap ●	16:1		1	O-Ring ●
7:7		1	Cap-End ●	16:2		1	Washer-Back Up ●
8	131-6538	4	Standard Handle Kit	16:3		1	O-Ring ●
8:1		2	Pin-Cotter ●	17	132-4188	1	Tie Rod Kit (4 Section)
8:2		1	Pin-Clevis ●	17:1		3	Rod-Tie ●
8:3		1	Pin-Clevis ●	17:2		6	Washer-Lock ●
8:4		1	Handle ●	17:3		6	Nut ●
8:5	AU30604519	1	Knob				

● Not serviced separately

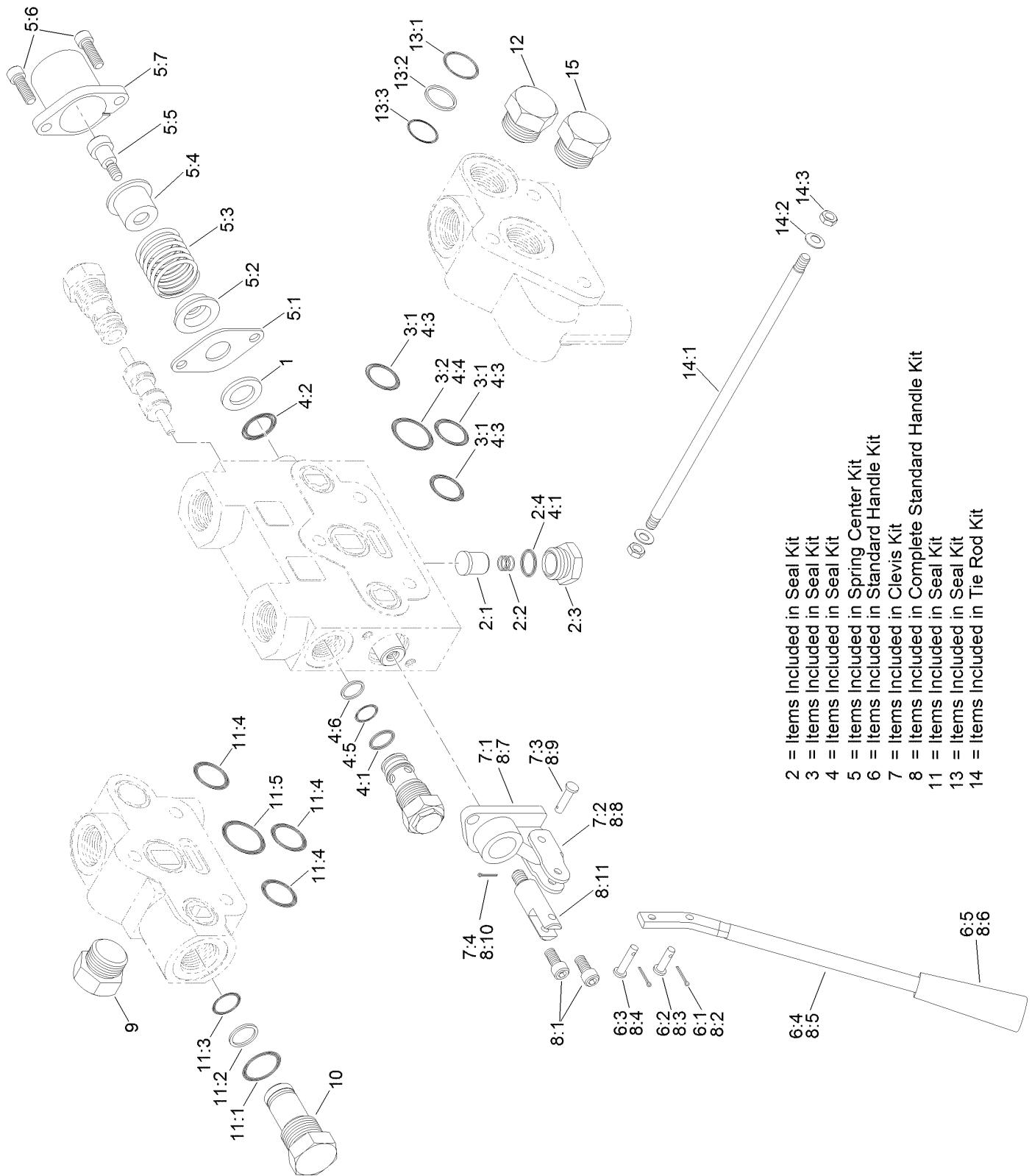
Hydraulic Valve Assembly



Hydraulic Valve Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU124864-03	1	Plate-Mount, Thermal Bypass	17:2	237-21	1	O-Ring
2	AU8HV01001	1	Valve-Thermostat	18	353-551	1	Plug-HH
3	33104-025	5	Screw-HHF	18:1	237-80	1	O-Ring
4	104-3082	7	Nut-Lock, HHF	19	AU121465	1	Valve-Check, 30 Psi
5	AU100327	2	Screw-Flange	20	AU100394	2	Screw-Flange
6	104-3797	1	Fitting-HYD, Straight	21	AU8OA621616	2	Fitting-Straight
6:1	237-146	1	O-Ring	21:1	340-65	1	O-Ring
6:2	340-65	1	O-Ring	22	340-52	2	Fitting-Elbow, 90
7	104-7501	1	Fitting-HYD	22:1	237-101	1	O-Ring
7:1	340-65	2	O-Ring	22:2	340-64	1	O-Ring
7:2	237-146	1	O-Ring	23	AU8OR82020	1	Fitting-Tee, Run
8	92-7645	1	Fitting-Swivel, 90 DEG	23:1	340-64	2	O-Ring
8:1	340-65	1	O-Ring	24	340-104	2	Fitting-HYD, Tee
9	340-129	1	Fitting-HYD, 90	24:1	237-30	2	O-Ring
9:1	237-146	1	O-Ring	25	95-7776	1	Fitting-HYD
9:2	340-65	1	O-Ring	25:1	237-22	1	O-Ring
10	AU8HV80153	1	3 Spool HYD Valve ASM	26	AU8OA80820	1	Fitting-Reducer
11	340-133	6	Adapter ASM	26:1	237-30	1	O-Ring
11:1	237-79	1	O-Ring	27	AU8OB81616	1	Fitting-Tee
11:2	237-21	1	O-Ring	27:1	340-65	2	O-Ring
12	AU111506	6	Fitting-Straight	28	AU8OR81616	1	Fitting-Tee
12:1	237-21	1	O-Ring	28:1	340-65	2	O-Ring
13	340-6	8	Fitting-HYD, Straight	29	AU8OA81216	1	Fitting-Reducer
13:1	237-30	1	O-Ring	29:1	237-58	1	O-Ring
13:2	237-80	1	O-Ring	30	AU8OA80816	1	Fitting-Reducer
14	3256-24	3	Washer-Flat	30:1	237-30	1	O-Ring
15	AU426-616	3	Screw-HH	31	AU121320	1	Bracket-Front, 5-Section Valve
16	AU121285	1	5-Section HYD Valve ASM	32	AU121321	1	Bracket-Rear, 5-Section Valve
17	340-132	2	Fitting-HYD, 90 DEG	33	33105-016	2	Screw-HHF
17:1	237-78	1	O-Ring				

3 Spool Hydraulic Valve Assembly No. AU8HV80153



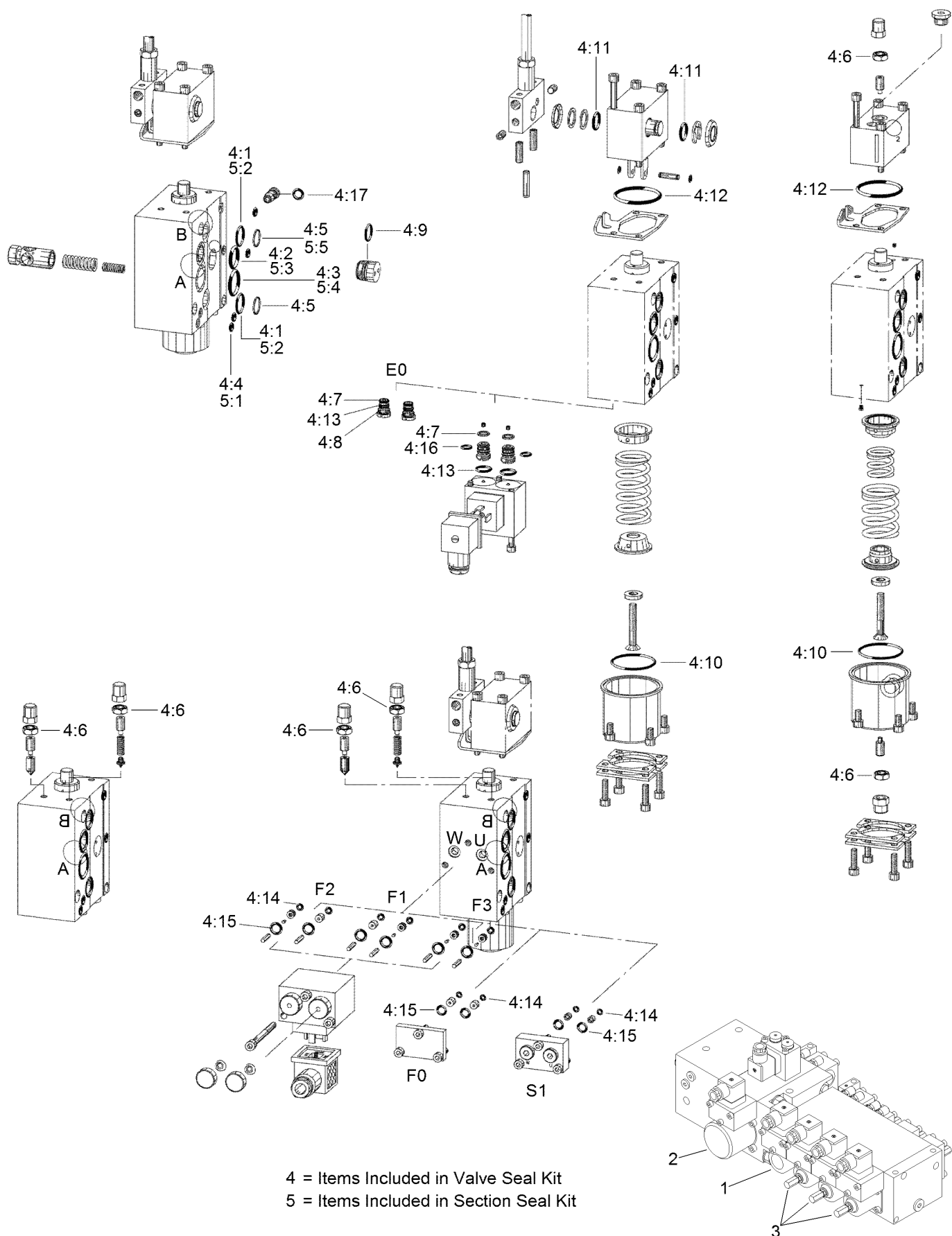
- 2 = Items Included in Seal Kit
- 3 = Items Included in Seal Kit
- 4 = Items Included in Seal Kit
- 5 = Items Included in Spring Center Kit
- 6 = Items Included in Standard Handle Kit
- 7 = Items Included in Clevis Kit
- 8 = Items Included in Complete Standard Handle Kit
- 11 = Items Included in Seal Kit
- 13 = Items Included in Seal Kit
- 14 = Items Included in Tie Rod Kit

3 Spool Hydraulic Valve Assembly No. AU8HV80153 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-6549	6	Washer-Back Up, Spool	7:4		1	Pin-Cotter ●
2	131-6532	3	Load Check Kit	8	131-6540	3	Complete Standard Handle Kit
2:1		1	Poppet-Check, Load ●	8:1		2	Screw-Cap ●
2:2		1	Spring-Check, Load ●	8:2		2	Pin-Cotter ●
2:3		1	Plug-Check, Load ●	8:3		1	Pin-Clevis ●
2:4		1	O-Ring ●	8:4		1	Pin-Clevis ●
3	131-6533	3	Replacement Seal Kit	8:5		1	Handle ●
3:1	22-8600	3	O-Ring	8:6	AU30604519	1	Knob
3:2		1	O-Ring ●	8:7		1	Clevis ●
4	132-4189	3	Seal Kit	8:8		1	Link ●
4:1		3	O-Ring ●	8:9		1	Pin-Clevis ●
4:2		2	O-Ring ●	8:10		1	Pin-Cotter ●
4:3	22-8600	3	O-Ring	8:11		1	Adapter-Spool ●
4:4		1	O-Ring ●	9	131-6542	2	Plug-Port
4:5		2	O-Ring ●	10	131-6543	1	Plug-No Relief
4:6		2	Backup Washer ●	11	131-6544	1	Replacement Inlet Seal Kit
5	131-6537	3	Spring Center Kit	11:1		1	O-Ring ●
5:1		1	Plate-Retainer ●	11:2		1	Washer-Back Up ●
5:2		1	Cup-Stop, Inner ●	11:3		1	O-Ring ●
5:3		1	Spring-Centering ●	11:4	22-8600	3	O-Ring
5:4		1	Cup-Stop, Outer ●	11:5		1	O-Ring ●
5:5		1	Adapter-Spool ●	12	131-6546	1	Plug
5:6		2	Screw-Cap ●	13	131-6548	1	Outlet Section Seal Kit
5:7		1	Cap-End ●	13:1		1	O-Ring ●
6	131-6538	3	Standard Handle Kit	13:2		1	Washer-Back Up ●
6:1		2	Pin-Cotter ●	13:3		1	O-Ring ●
6:2		1	Pin-Clevis ●	14	132-4187	1	Tie Rod Kit (3 Section)
6:3		1	Pin-Clevis ●	14:1		3	Rod-Tie ●
6:4		1	Handle ●	14:2		6	Washer-Lock ●
6:5	AU30604519	1	Knob	14:3		6	Nut ●
7	131-6539	3	Clevis Kit	15	132-4190	1	Plug-Conversion, Center Open
7:1		1	Clevis ●				
7:2		1	Link ●				
7:3		1	Pin-Clevis ●				

● Not serviced separately

5-Section Hydraulic Valve Assembly No. AU121285



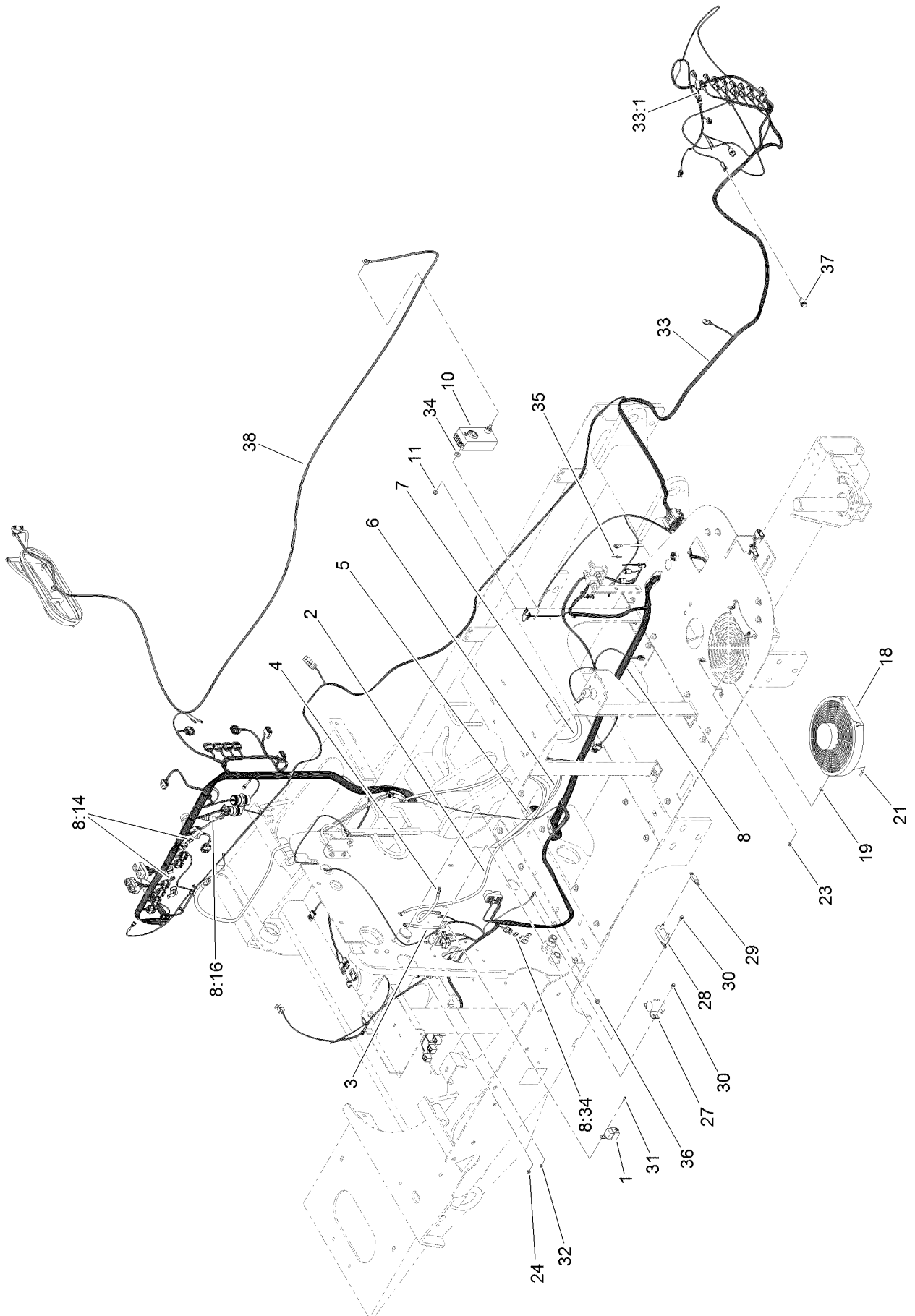
5-Section Hydraulic Valve Assembly No. AU121285 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	132-5664	1	Coil-12V
2	132-5665	1	Solenoid-Twin, 12V
3	132-5666	3	Spool-SI
4	132-5667	1	Valve Seal Kit
4:1		2	O-Ring ●
4:2		1	Seal ●
4:3		1	Seal ●
4:4		4	O-Ring ●
4:5		2	Ring-Backup ●
4:6		4	Seal-Nut ●
4:7		2	Seal-Ring ●
4:8		2	O-Ring ●
4:9		1	O-Ring ●
4:10		1	O-Ring ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4:11		2	O-Ring ●
4:12		1	O-Ring ●
4:13		2	O-Ring ●
4:14		2	O-Ring ●
4:15		2	O-Ring ●
4:16		2	O-Ring ●
4:17		1	O-Ring ●
5	132-5668	1	Section Seal Kit
5:1		4	O-Ring ●
5:2		2	O-Ring ●
5:3		1	Seal ●
5:4		1	Seal ●
5:5		2	Ring-Backup ●

● Not serviced separately

Electrical Assembly



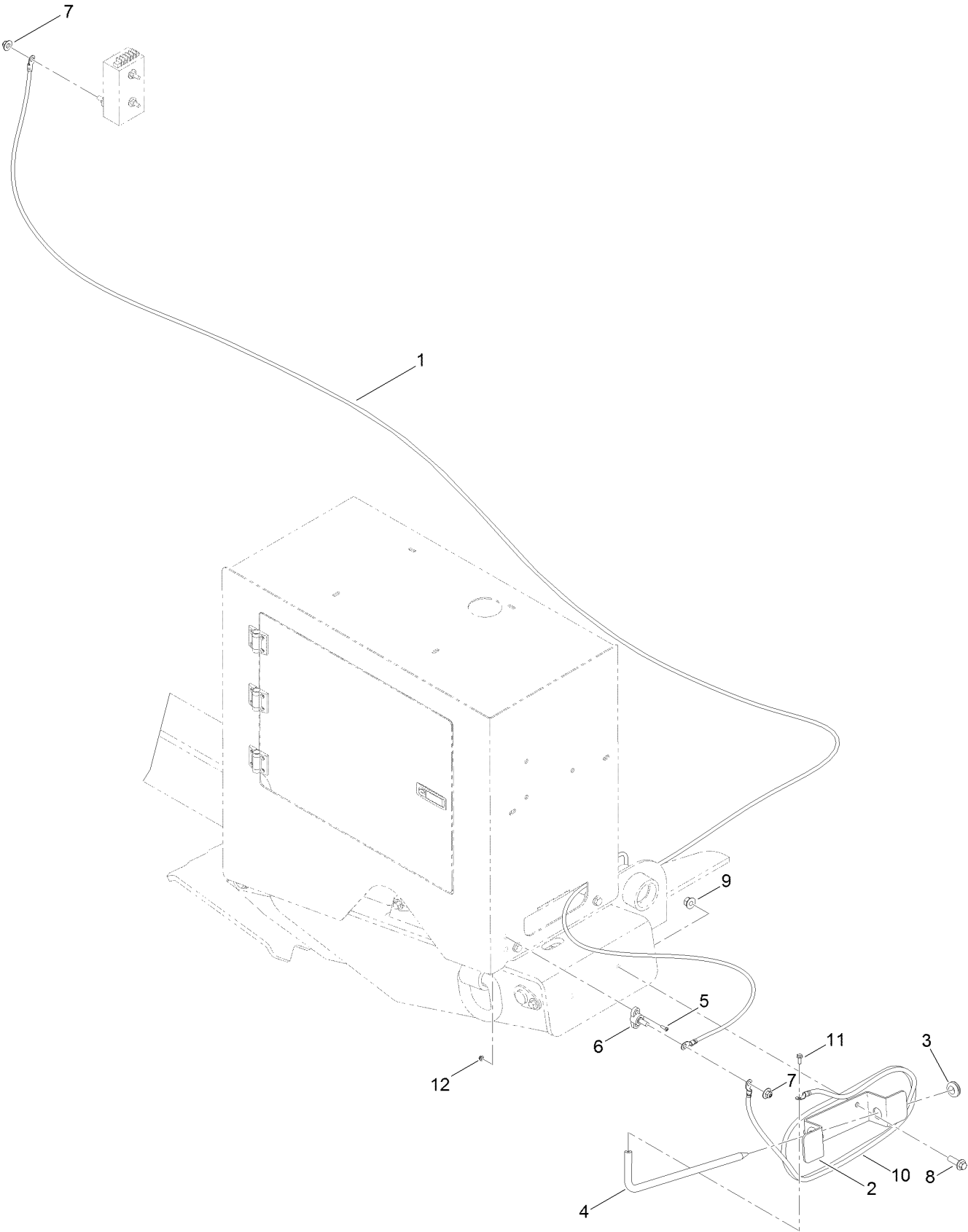
Electrical Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	99-7430	2	Relay	23	33003-00	4	Nut-HF
2	122-0219	1	Cable-Battery, Positive	24	81-0130	4	Nut-Flange, NI
3	122-0103	1	Cable-Battery, Positive	27	AU126234	1	Solenoid-Relay 12V, 300A
4	122-0104	1	Cable-Battery, Positive	28	AU126233	1	Holder-Fuse
5	122-0093	1	Cable-Battery, Positive	29	AU126232	1	Fuse-100A
6	122-0094	1	Cable-Battery, Negative	30	33103-016	4	Screw-HHF
7	122-0095	1	Cable-Battery, Negative	31	119-7568	2	Screw-HSBH
8	122-0063	1	Harness-Wire, Main	32	120-4580	2	Nut-HF
8:14	218-578	2	Fuse-Blade, 10 Amp	33	122-0064	1	Harness-Wire, Thrust Frame
8:16	32180-043	1	Resistor-120 Ohm	33:1	110928	1	Fuse-Blade, 5 Amp
8:34	109103	1	Fuse-Blade, 30 Amp	34	26-4840	2	Spacer-Pin, Mounting
10	AU8EE27103	1	Relay	35	3269-28	1	Rivet-Pop
11	104-8300	2	Nut-Flange, NI	36	104-3082	1	Nut-Lock, HHF
18	130-4521	1	Fan-Electric	37	131-0040	2	Lamp-Indicator, LED
19	120-9679	4	Washer-Flat	38	131-9019	1	Ground Stake Kit
21	33113-020	4	Screw-HH	99	AU8EE27104	1	Tester-Zapalert ●

● Not illustrated

ZapAlert Ground Stake Relocation Assembly

No. 131-9019



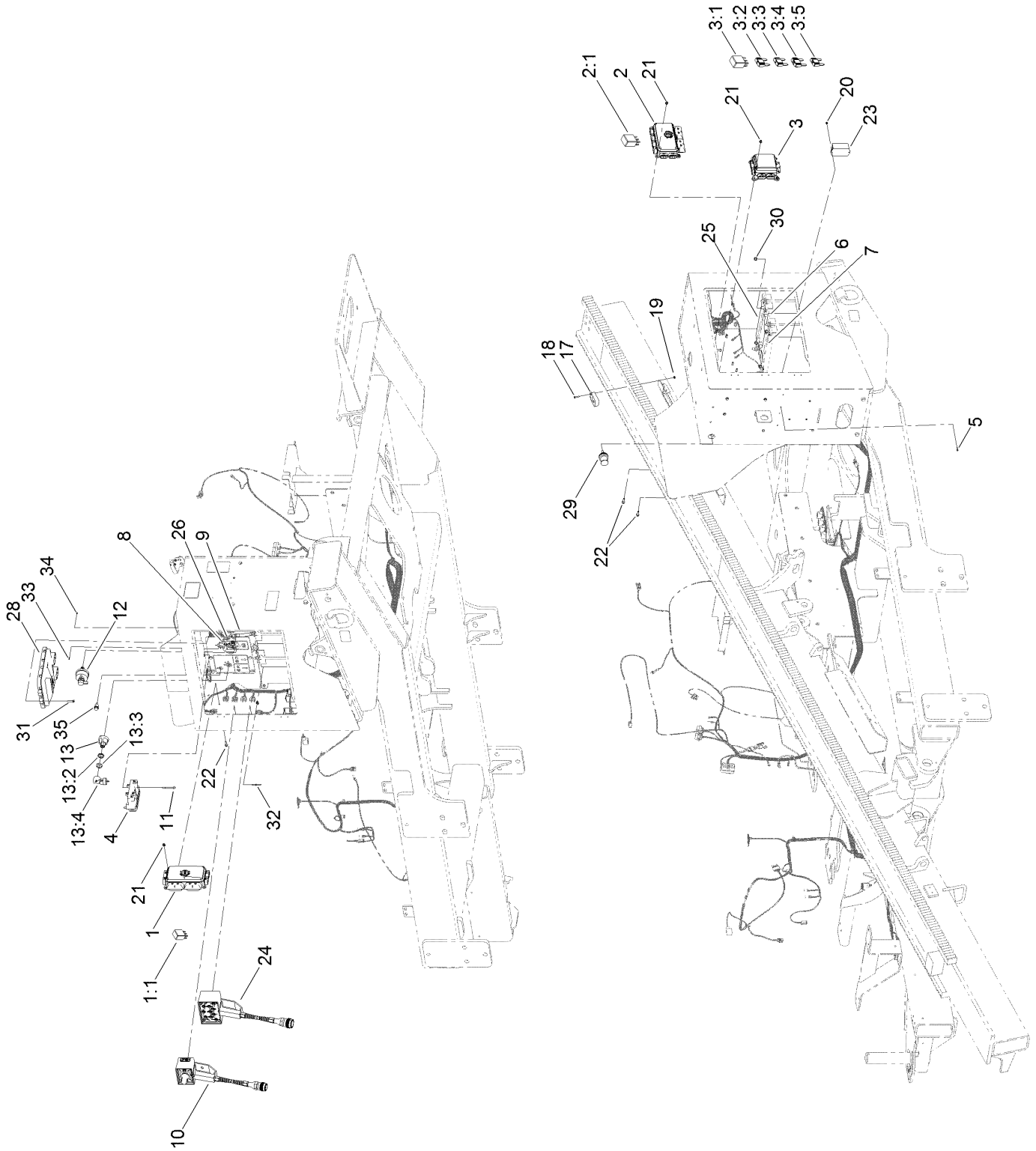
ZapAlert Ground Stake Relocation Assembly

No. 131-9019 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	122-0625	1	Cable-Battery, Negative
2	131-3446	1	Plate-Holder, Stake
3	117-2781	2	Grommet
4	AU109224	1	Bar-Stake, Ground
5	110-8823	1	Block-Junction
6	119-7568	2	Screw-HSBH

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
7	109-6658	2	Nut-Flange, NI
8	33105-035	2	Screw-HHF
9	103-9511	2	Nut-Lock, NI
10	AU124406	1	Cable-Alert, Strike
11	114-8414	1	Screw-HHF
12	111-1502	2	Nut-HHF, Ny

Travel Pendant and Life Jacket Assembly



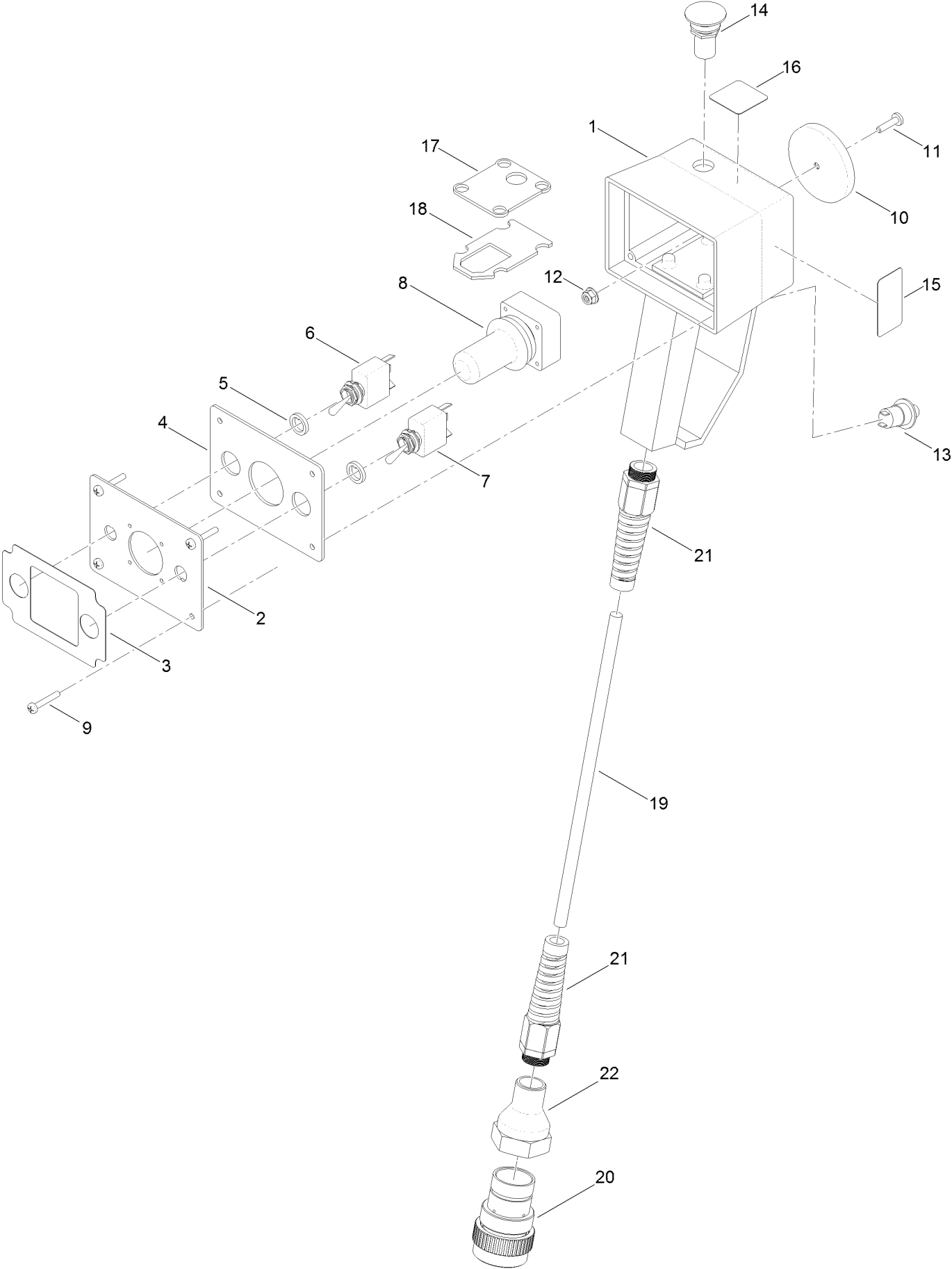
Travel Pendant and Life Jacket Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119073	1	Box-Vec, Main (A)	13:3	121-5161	1	Nut-Face
1:1	122-0368	16	Relay-280 Iso	13:4	121-5162	1	Ignition Key Set
2	AU119074	1	Box-Vec, Main (B)	17	AU8EP65159	3	Switch-Proximity
2:1	122-0368	16	Relay-280 Iso	18	9107964	6	Screw-PPH
3	AU119075	1	Box-Vec, Main (C)	19	32149-7	6	Nut-Keps
3:1	122-0368	5	Relay-280 Iso	20	3296-1	4	Nut-Lock
3:2	121-8861	4	Fuse-Mini Blade, 2 Amp	21	81-0130	12	Nut-Flange, NI
3:3	121-8864	3	Fuse-Mini Blade, 5 Amp	22	33103-025	12	Screw-HHF
3:4	121-8868	5	Fuse-Mini Blade, 20 Amp	23	AU115133	2	Connector-Pack, Resistor
3:5	121-8870	3	Fuse-Mini Blade, 30 Amp	24	125-1628	1	Life Jacket ASM
4	AU117892	1	Computer-Expander, Output	25		2	Battery ●■
5	3250-17	4	Screw-PPH	26	122-0084	1	Harness-Wire, Fusible Link
6	122-0105	1	Cable-Battery, Positive	28	AU117890	1	Controller ASM (88 Pin, Unprogrammed)
7	122-0106	1	Cable-Battery, Negative				
8	122-0091	1	Cable-Battery, Positive	29	AU105186	1	Post-Battery, Remote
9	122-0092	1	Cable-Battery, Positive	30	32149-10	4	Nut-Keps
10	131-9036	1	Travel Pendant ASM	31	33103-030	3	Screw-HHF
11	AU100315	2	Screw-Flange, Metric	32	3269-28	1	Rivet-Pop
12	AUR52278	1	Switch-Disconnect, Master	33	1-3153	4	Screw-PRH, Slotted
13	121-5159	1	Ignition Switch ASM	34	3296-52	4	Nut-Lock, NI
13:2	121-5160	1	Nut-Hex	35	131-0039	1	Lamp-Indicator, LED

● Obtain locally.

■ Not serviced separately

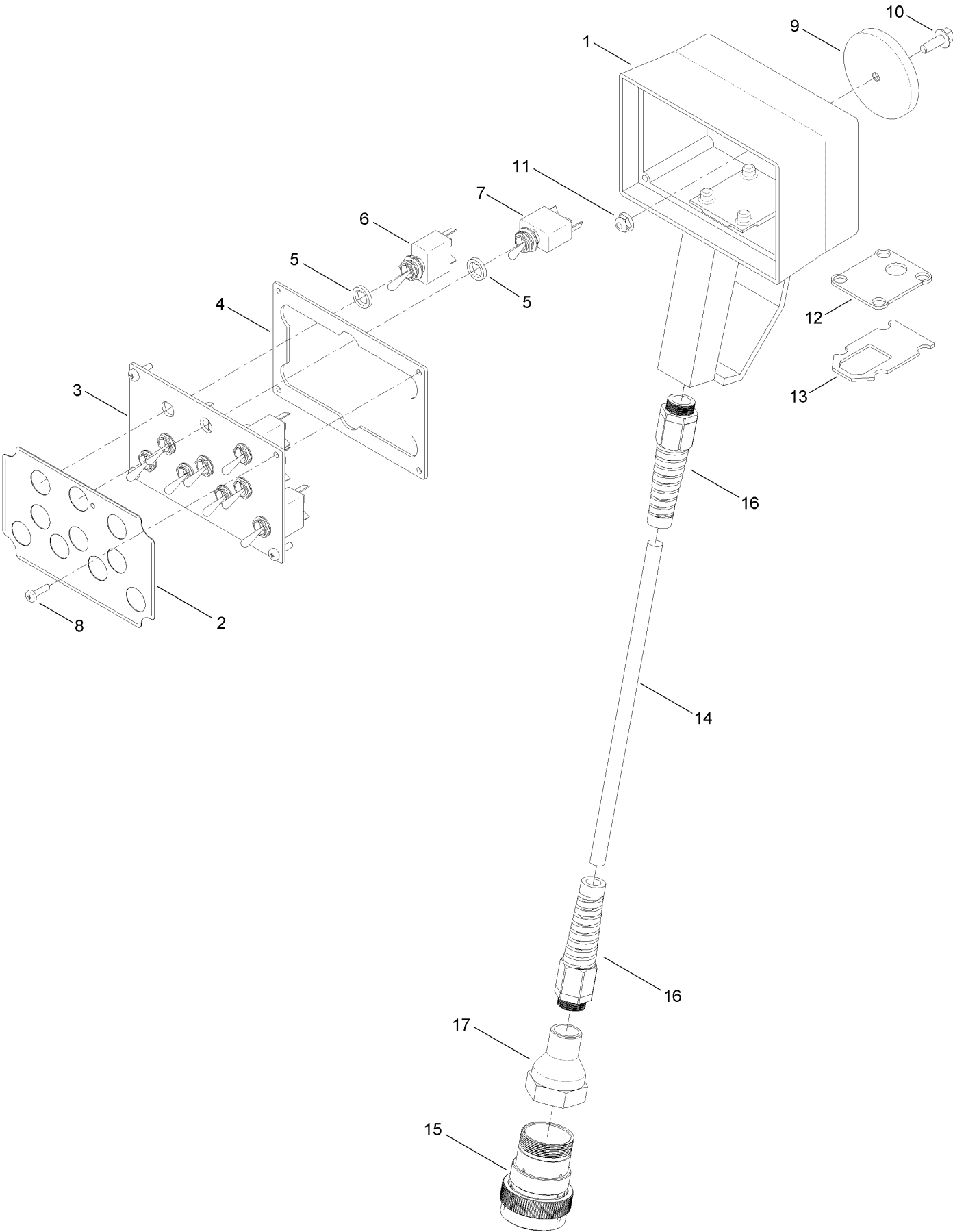
Travel Pendant Assembly No. 131-9036



Travel Pendant Assembly No. 131-9036 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-1612	1	Enclosure-Handheld	12	120-4578	1	Nut-HF
2	131-9016	1	Plate-Pendant Front	13	125-1616	1	Switch-Momentary
3	125-1641	1	Decal-Travel Pendant	14	125-1592	1	Switch-Push Button
4	131-9017	1	Gasket-Pendent Front	15	125-6183	1	Decal-Operator Presence
5	125-1619	2	Seal-Switch	16	125-1622	1	Decal-Emergency Stop
6	125-1615	1	Switch	17	125-1609	1	Gasket-Handle, Inner
7	125-1611	1	Switch	18	125-1610	1	Gasket-Handle, Outer
8	125-1590	1	Joystick	19	125-1606	1	Cable-Travel Pendant
9	131-9021	4	Screw-PPH	20	32160-404	1	Plug-Connetor
10	131-9022	1	Magnet-Ceramic, Encased	21	125-1632	2	Grip-Cord
11	3250-13	1	Screw-PPH	22	125-1625	1	Coupler

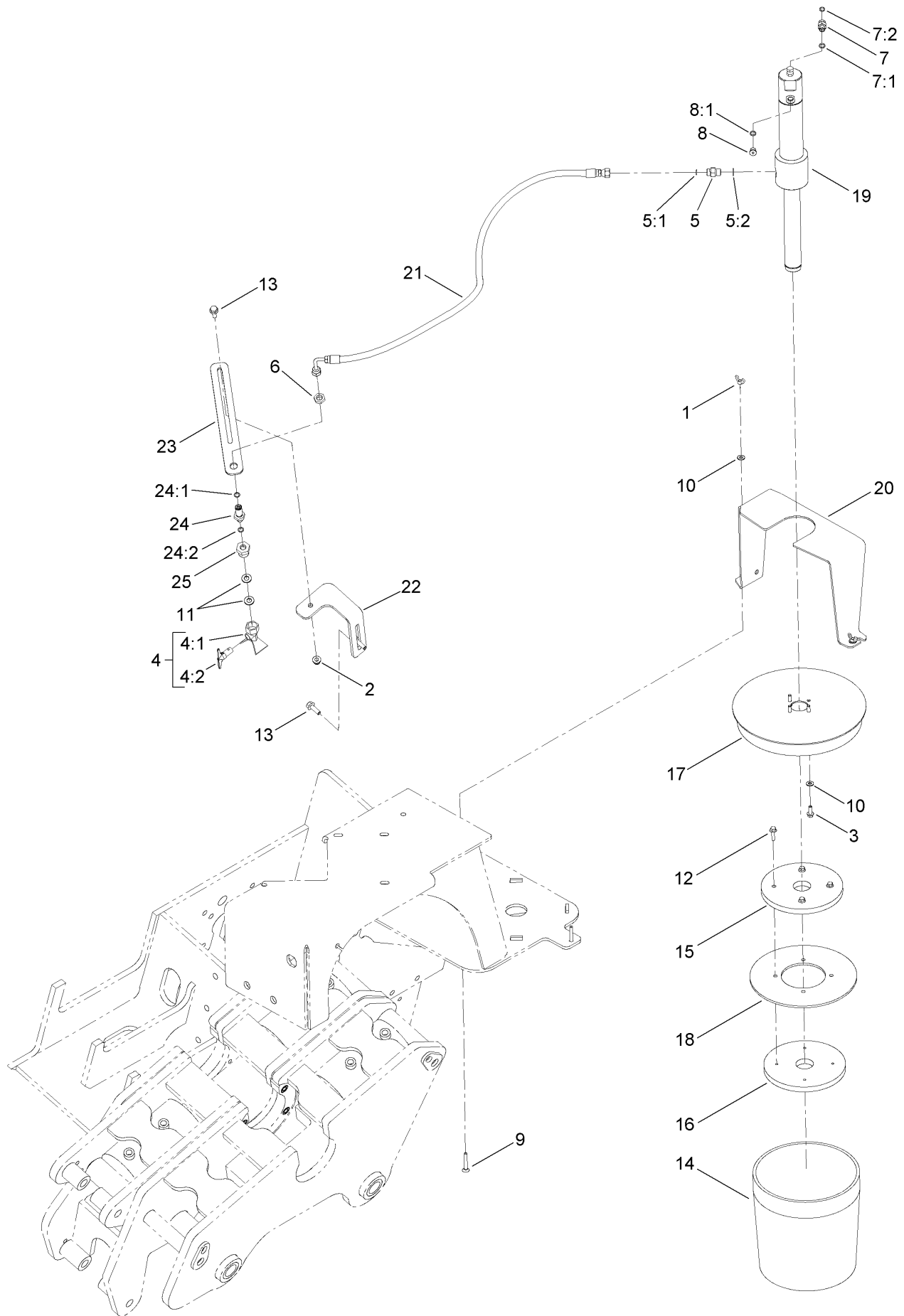
Life Jacket Assembly No. 125-1628



Life Jacket Assembly No. 125-1628 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-1614	1	Enclosure-Handheld	10	120-9678	1	Screw-HHF
2	125-1623	1	Decal-Life Jacket	11	104-7201	1	Nut-Flange, NI
3	125-1624	1	Plate-Life Jacket	12	125-1609	1	Gasket-Handle, Inner
4	125-1647	1	Gasket-Life Jacket	13	125-1610	1	Gasket-Handle, Outter
5	125-1619	10	Seal-Switch	14	125-1608	1	Cable-Life Jacket
6	125-1615	9	Switch	15	32160-403	1	Deutsch 23F
7	125-1620	1	Switch	16	125-1632	1	Grip-Cord
8	125-1630	4	Screw-PPH	17	125-1626	1	Coupler
9	T0002-8729	1	Magnet-Ceramic, Encased				

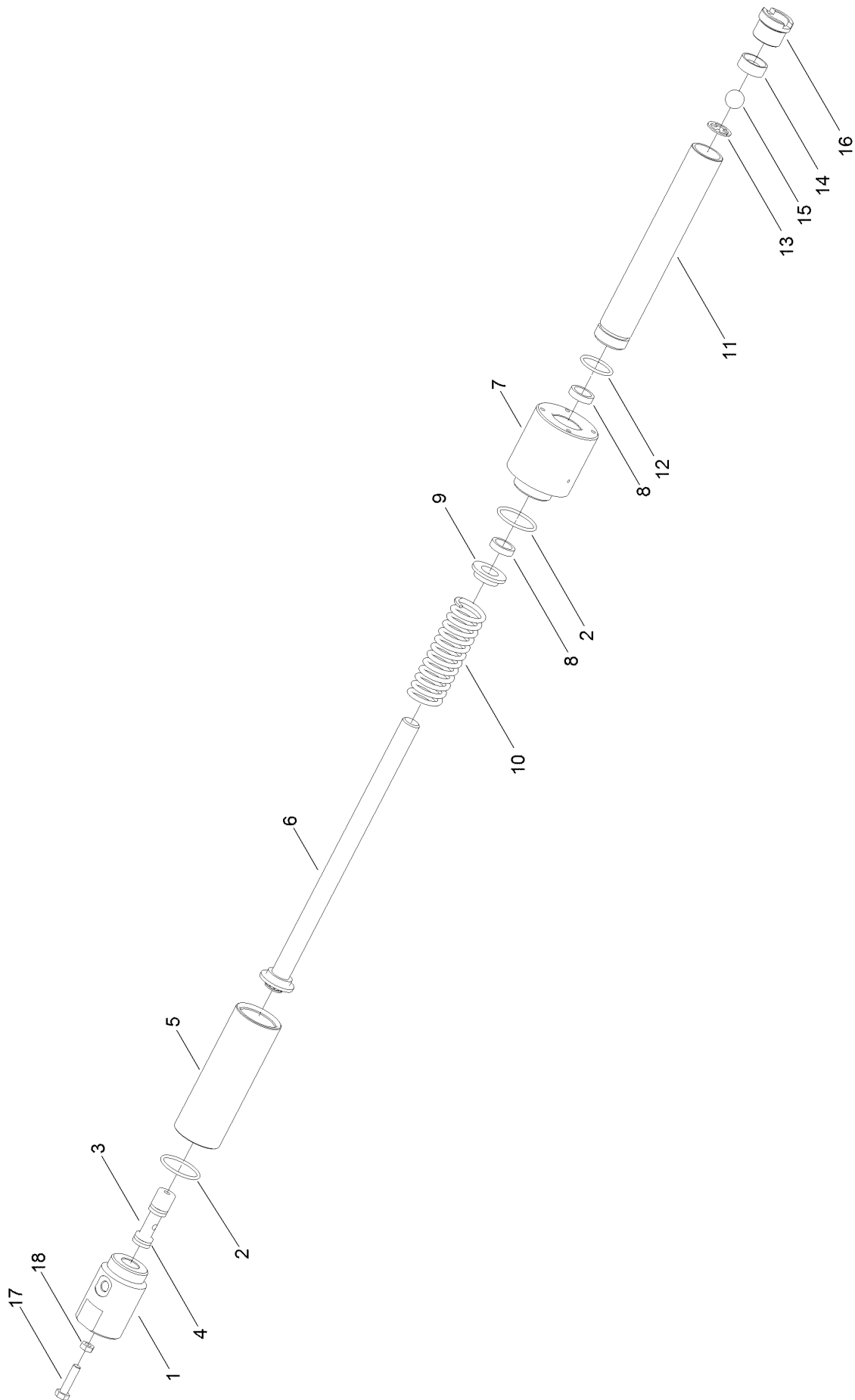
Tool Joint Lube Applicator Assembly



Tool Joint Lube Applicator Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	1-543792	2	Wingnut	11	3256-24	2	Washer-Flat
2	104-3082	1	Nut-Lock, HHF	12	33103-025	4	Screw-HHF
3	120-9678	4	Screw-HHF	13	33104-025	3	Screw-HHF
4	125-4539	1	Spray Nozzle ASM	14	AU01DT9904	1	Compound-Thread
4:1	125-4540	1	Nozzle-Spray, Airless	15	AU108640-03	1	Plate
4:2	125-4541	1	Orifice Insert ASM	16	AU108641-03	1	Plate
5	340-1	1	Fitting-HYD, Straight	17	AU108790-03	1	Cover-Applicator, Lube
5:1	237-21	1	O-Ring	18	AU108814	1	Seal-Rubber, Follower
5:2	237-42	1	O-Ring	19	AU108837	1	HYD Grease Pump ASM
6	340-78	1	Nut-Lock	20	AU109840-03	1	Cover-Grease Tied Down
7	340-92	1	Fitting-HYD, Straight	21	AU119788	1	HYD Hose ASM
7:1	237-78	1	O-Ring	22	AU121079-03	1	Bracket-Mount, Nozzle
7:2	237-21	1	O-Ring	23	AU121080-03	1	Mount-Slide, Nozzle
8	353-990	1	Plug ASM	24	AU8OA90404	1	Fitting-Straight
8:1	237-78	1	O-Ring	24:1	237-21	1	O-Ring
9	3229-5	2	Screw-CARR	24:2	237-78	1	O-Ring
10	3256-22	6	Washer-Flat	25	AU8SA31004	1	Reducer-Straight, Threaded

Grease Pump Assembly No. AU108837



Grease Pump Assembly No. AU108837 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU108858-03	1	Cap-Cylinder	10	AU108870	1	Spring
2	AU8HS51920	2	Seal-O Ring	11	AU108866-03	1	Barrel-Pump
3	AU108861	1	Spool-Adjusting	12	AU8HS51916	1	Seal-O Ring
4	AU238-5113	2	O-Ring	13	AU108860	1	Clip-Retainer
5	AU108862-03	1	Barrel-Cylinder	14	AU108867	1	Valve-Seat
6	AU108865	1	Plunger	15	AU108869	1	Ball-Steel, Stainless
7	AU108859-03	1	Body-Pump	16	AU108868	1	Tube-Inlet
8	AU8HS10002	2	Seal-Deep	17	322-47	1	Screw-HH
9	AU108863	1	Guide-Rod	18	3218-2	1	Nut-Jam

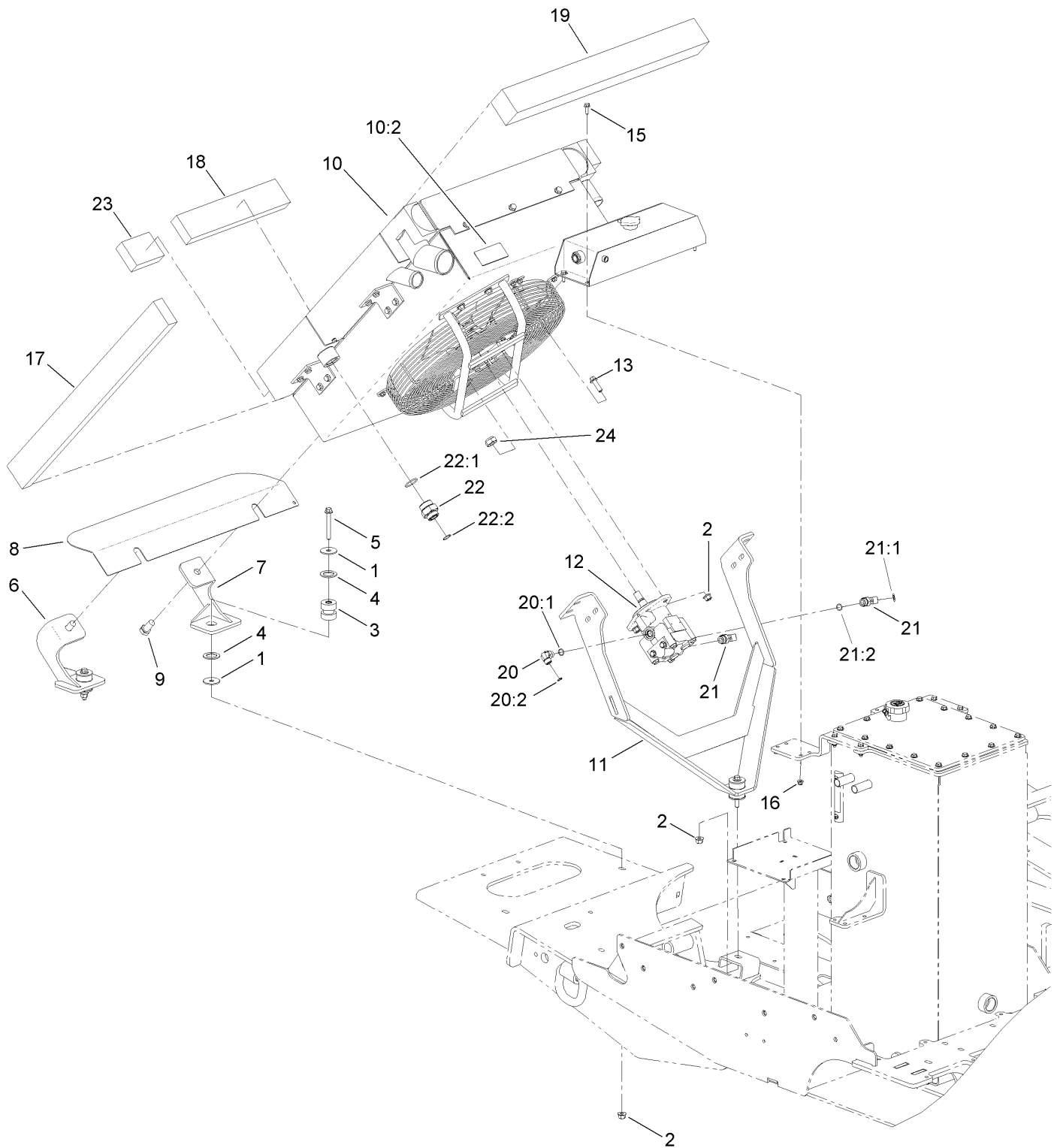
This technical drawing illustrates a mechanical assembly, likely a suspension or steering component, with various parts labeled with numbers. The assembly includes a main body (1) with a central pivot point (2). A long, thin arm (34) extends from the pivot. A series of links and bushings (4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41) connect the main body to a lower component (42). The lower component appears to be a wheel or a similar rotating part. The drawing uses solid lines for visible parts and dashed lines for hidden or internal components. The numbers 1 through 42 are distributed across the drawing to identify specific parts.

Rod Loader Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	104-3082	30	Nut-Lock, HHF	21	AU117449	2	Insert-Gripper
2	92-2745	1	Fitting-Adaptor	22	AU117558	2	HYD Cylinder ASM
2:1	237-21	1	O-Ring	22:1	131-0171	1	Piston Seal Kit ●
4	112-8617	1	Nut-Hex	22:2	131-0172	1	Gland Seal Kit ●
5	302-57	3	Fitting-Grease	23	AU117581-03	4	Gripper
6	340-1	4	Fitting-HYD, Straight	24	AU117727	2	Pin-Clevis
6:1	237-21	1	O-Ring	25	AU117806	4	Pin-Pivot (W/ Flag)
6:2	237-42	1	O-Ring	26	AU117809	2	Cylinder ASM
7	340-132	4	Fitting-HYD, 90 DEG	26:1	131-0171	1	Piston Seal Kit ●
7:1	237-78	1	O-Ring	26:2	131-0172	1	Gland Seal Kit ●
7:2	237-21	1	O-Ring	27	AU118041	2	Pin-Pivot
8	127-2018	2	Nut-HHF	28	AU118048	1	Pin-Pivot, Cam
9	2412-93	1	Clamp-R	29	AU124261	1	Pin-Pivot
10	3272-19	4	Pin-Cotter	30	132-4172-03	1	Bracket-Loader, Rod
11	60-6500	2	Screw-HH	31	131-0177	1	Sensor-Rotary
12	33018-00	4	Nut-Hex	32	AU126409-03	1	Loader-Rod, Rear
13	33103-012	2	Screw-HHF	33	AU126410-03	1	Loader-Rod, Front
14	33104-030	16	Screw-HHF	34	AU126418-03	1	Rod-Tie
15	33104-035	8	Screw-HHF	35	117-4059	8	Nut-Hex
16	33104-060	14	Screw-HHF	36	132-4173-03	1	Plate-Sensor
17	AU120624	4	Screw-HH	37	33103-016	2	Screw-HHF
18	AU109885	2	Pin-Clevis	38	81-0130	2	Nut-Flange, NI
19	AU111506	2	Fitting-Straight	39	3-8514	1	Washer-Thrust
19:1	237-21	1	O-Ring	40	122-0673	1	Harness-Adaptor, Sensor
20	AU117448	4	Holder-Pipe	41	3290-378	2	Tie-Cable

● Not illustrated

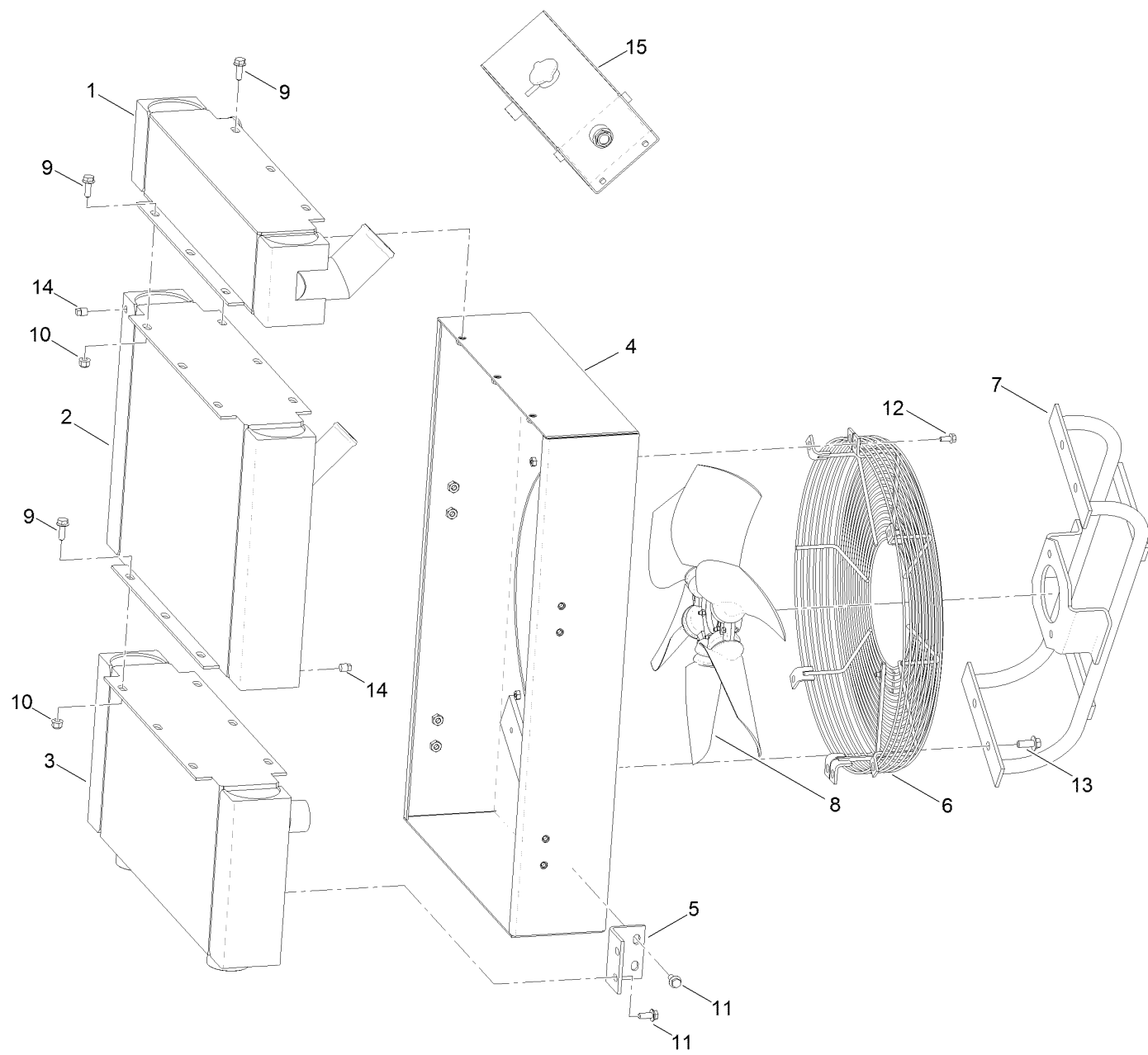
Cooling Package Assembly



Cooling Package Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU496-81018	6	Washer-Flat	16	104-3082	4	Nut-Lock, HHF
2	115-1115	5	Nut-Lock, HHF	17	AU130577	2	Foam-Polyurethane
3	AU8NG28121	3	Isolator-Mounting, Universal	18	AU130647	1	Foam-Polyurethane
4	AU495-81203	6	Washer	19	AU124069	1	Foam-Polyurethane
5	33106-090	3	Screw-HHF	20	340-98	1	Fitting-HYD, 90 DEG
6	AU130574-03	1	Support-Isolator, LH	20:1	237-79	1	O-Ring
7	AU130567-03	1	Support-Isolator, RH	20:2	237-30	1	O-Ring
8	AU130581-03	1	Plate-Seal, Rear Hood	21	340-89	2	Fitting-HYD, 45 DEG
9	AU426-1224	2	Bolt	21:1	237-30	1	O-Ring
10	127-0943	1	Cooling ASM	21:2	237-80	1	O-Ring
10:2	125-6127	1	Decal-Rotating Fan Hazard	22	340-80	2	Fitting-Straight
11	125-6585-03	1	Isolator-Support	22:1	237-101	1	O-Ring
12	AU118007	1	HYD Motor ASM	22:2	340-65	1	O-Ring
13	33106-040	2	Screw-HHF	23	127-0978	2	Foam-Polyurethane
15	33104-025	4	Screw-HHF	24	3296-67	1	Nut-Lock, NI

Cooler Assembly No. 127-0943

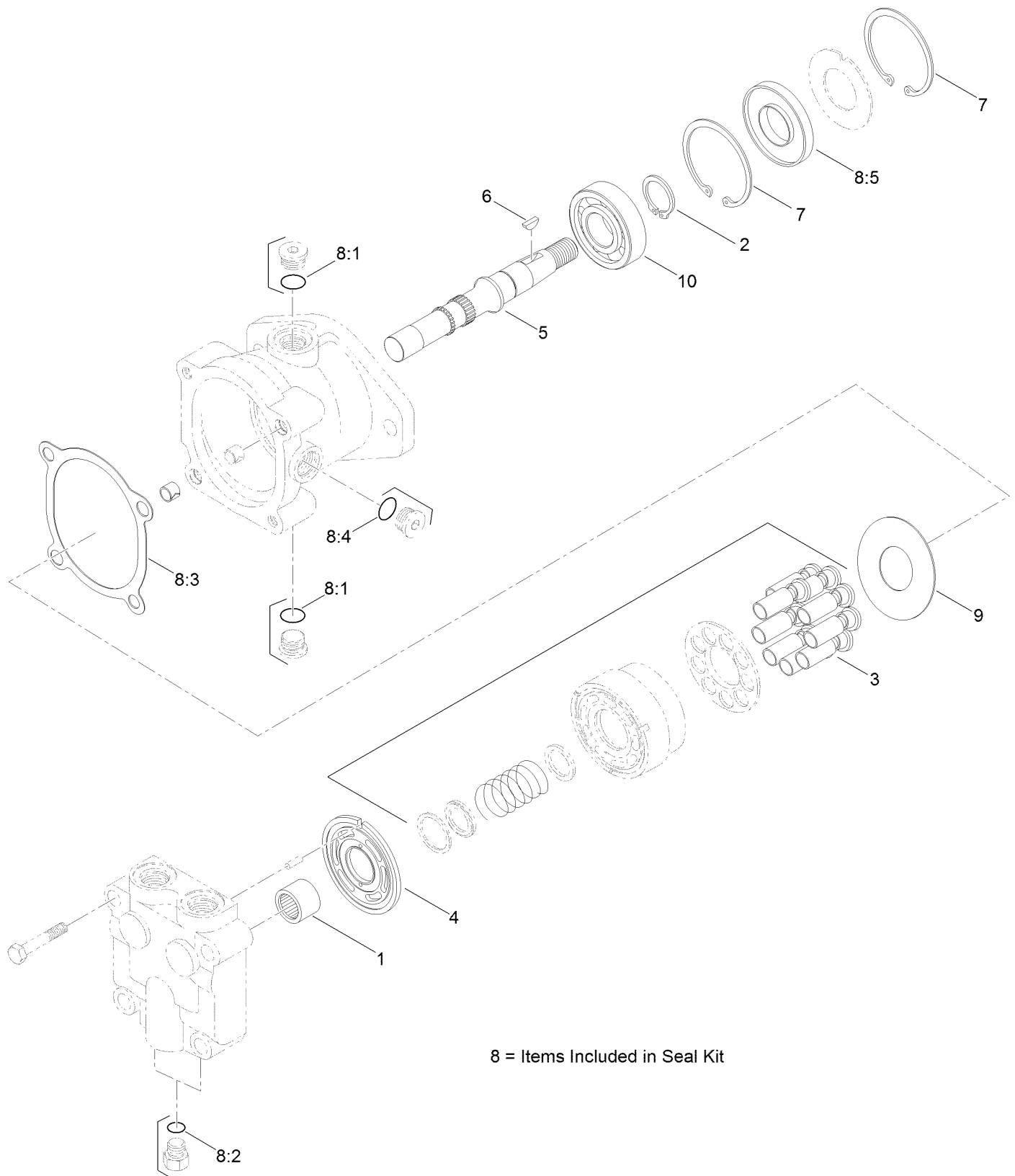


Cooler Assembly No. 127-0943 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU130370	1	Cooler-Air, Charge
2	AU130371	1	Cooler-Radiator
3	AU130372	1	Cooler-Oil
4	AU130378	1	Shroud-Fan
5	125-6569	4	Plate-Mounting, Shroud
6	AU118001	1	Guard-Fan, 22 Inch
7	AU117996	1	Bracket-Mounting
8	130-7415	1	Fan-Cooling, 22 Inch

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
9	33105-030	4	Screw-HHF
10	103-9511	12	Nut-Lock, NI
11	33105-025	16	Screw-HHF
12	33104-020	8	Screw-HHF
13	33106-030	15	Screw-HHF
14	281-1	1	Plug-Pipe, SQH
15	AU118080	1	Tank-Fill/Surge

Hydraulic Motor Assembly No. AU118007



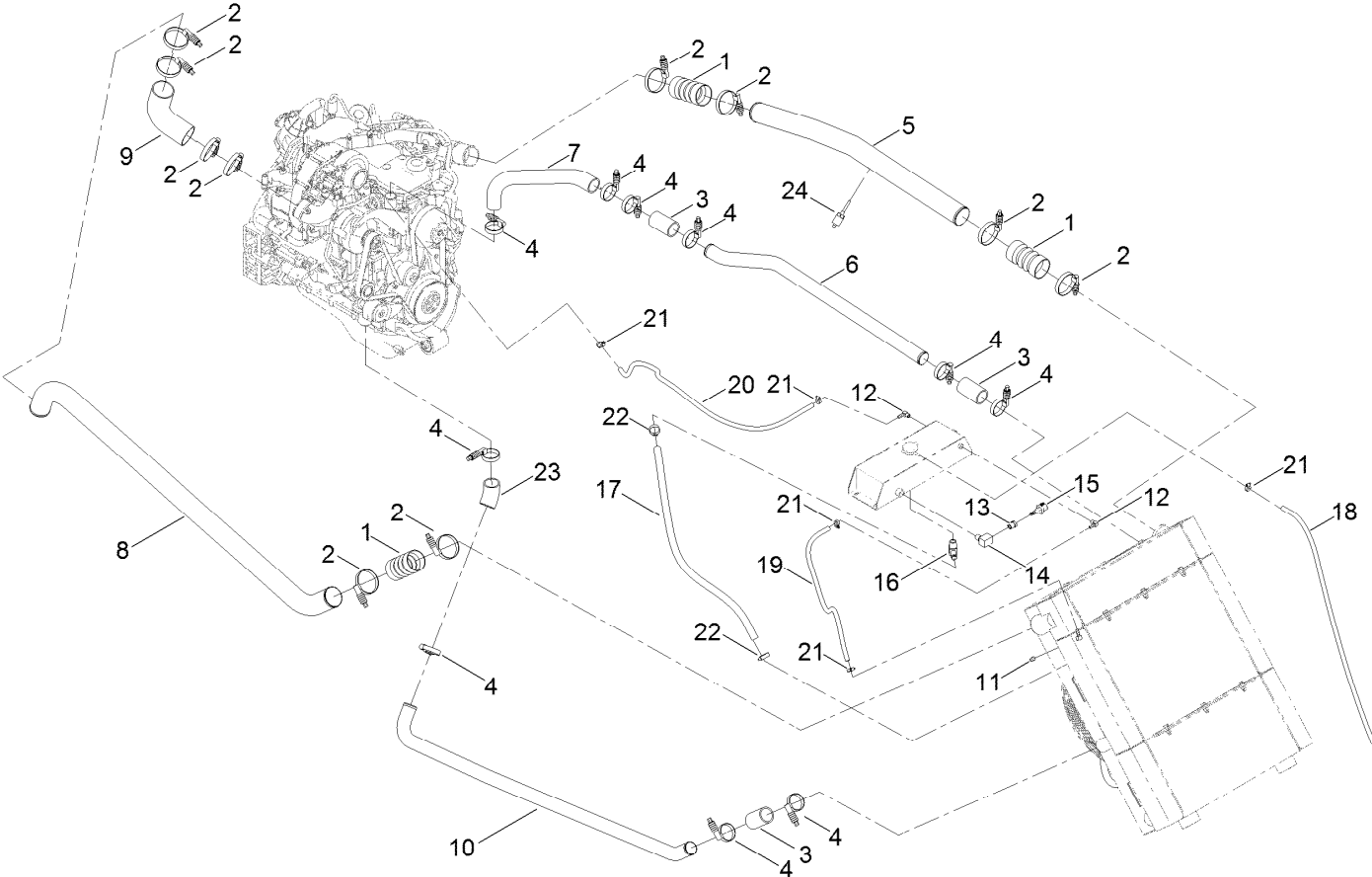
8 = Items Included in Seal Kit

Hydraulic Motor Assembly No. AU118007 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	110-6488	1	Bearing-Needle
2	125-5280	1	Ring-Retaining
3	131-7619	9	Piston ASM
4	131-7620	1	Plate-Valve
5	131-7644	1	Shaft-Motor
6	131-8612	1	Key
7	131-8616	2	Ring-Retaining
8	131-8633	1	Overhaul Seal Kit

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
8:1	75-0240	2	O-Ring
8:2	92-8777	2	O-Ring
8:3	131-7618	1	Gasket-Cap, End
8:4	28-3570	1	O-Ring
8:5	127-6214	1	Seal-Lip
9	75-0400	1	Plate-Thrust
10	75-0460	1	Bearing-Ball

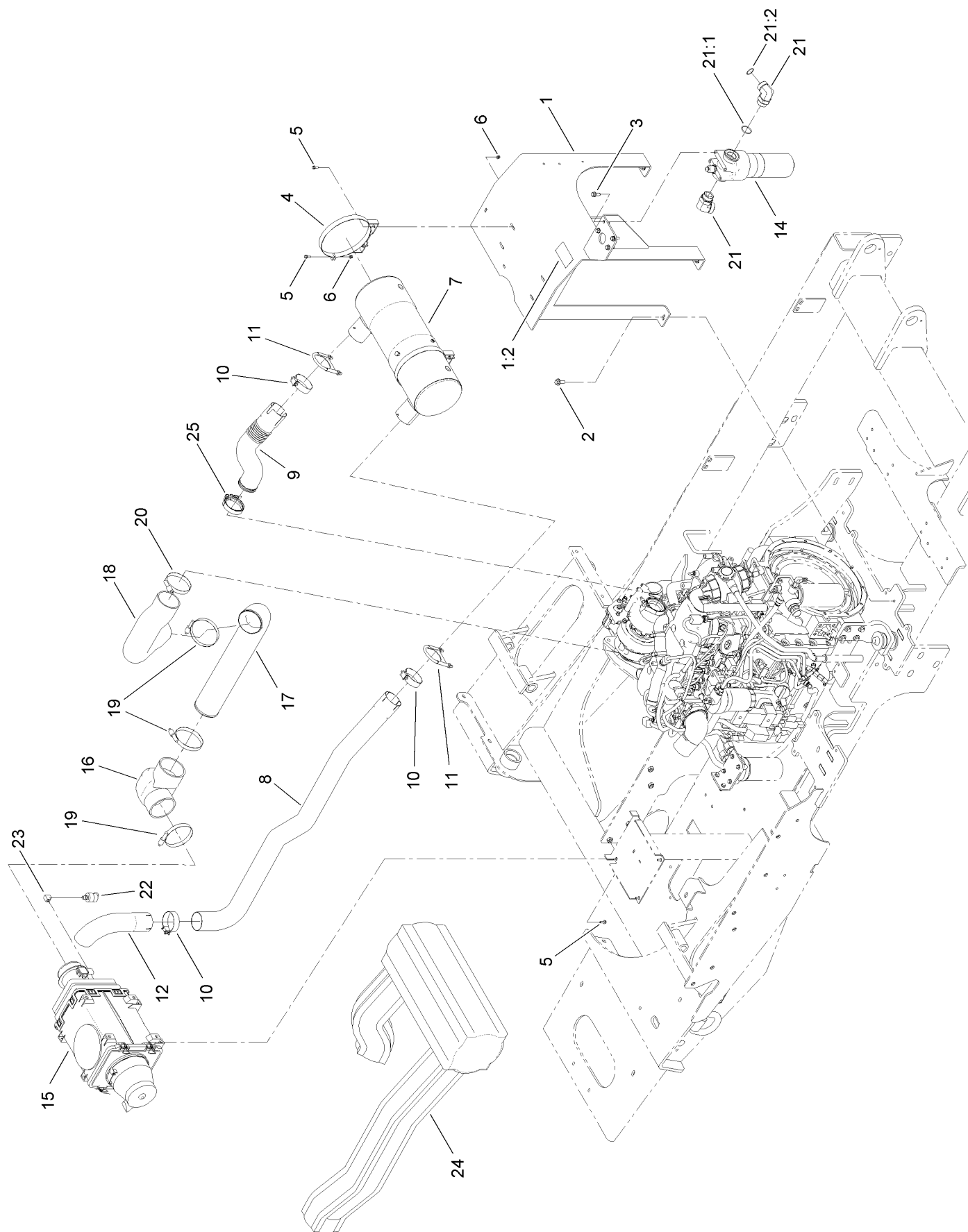
Cooling Package Hose and Clamp Assembly



Cooling Package Hose and Clamp Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU122225	3	Connector-Hose	13	354-92	1	Bushing
2	AU21001153	10	Clamp-Torque, Constant	14	93-1339	1	Elbow-Street, 90 DEG
3	AU119806	3	Hose-Connecting	15	110-8828	1	Sensor-Level, Coolant
4	AU110569	10	Clamp-Torque, Constant	16	AU217-135	1	Stem-90, Bead Hose
5	AU130257	1	Tube-Charge Air Out	17	127-0947	1	Hose-Coolant
6	AU130305	1	Tube-Radiator	18	127-0948	1	Hose-Coolant
7	AU130451	1	Hose-Radiator, Molded	19	127-0949	1	Hose-Coolant
8	AU130307	1	Tube-Charge Air In	20	127-0950	1	Hose-Coolant
9	AU130358	1	Elbow-90	21	2412-36	5	Clamp-Hose
10	AU130137	1	Tube-Radiator, Out	22	2412-34	2	Clamp-Hose
11	281-1	1	Plug-Pipe, SQH	23	AU130857	1	Hose-Coolant, 45 Degree
12	354-93	3	Fitting-Elbow, 90	24	AU129089	1	Transducer-Temperature

Engine Intake and Exhaust Assembly

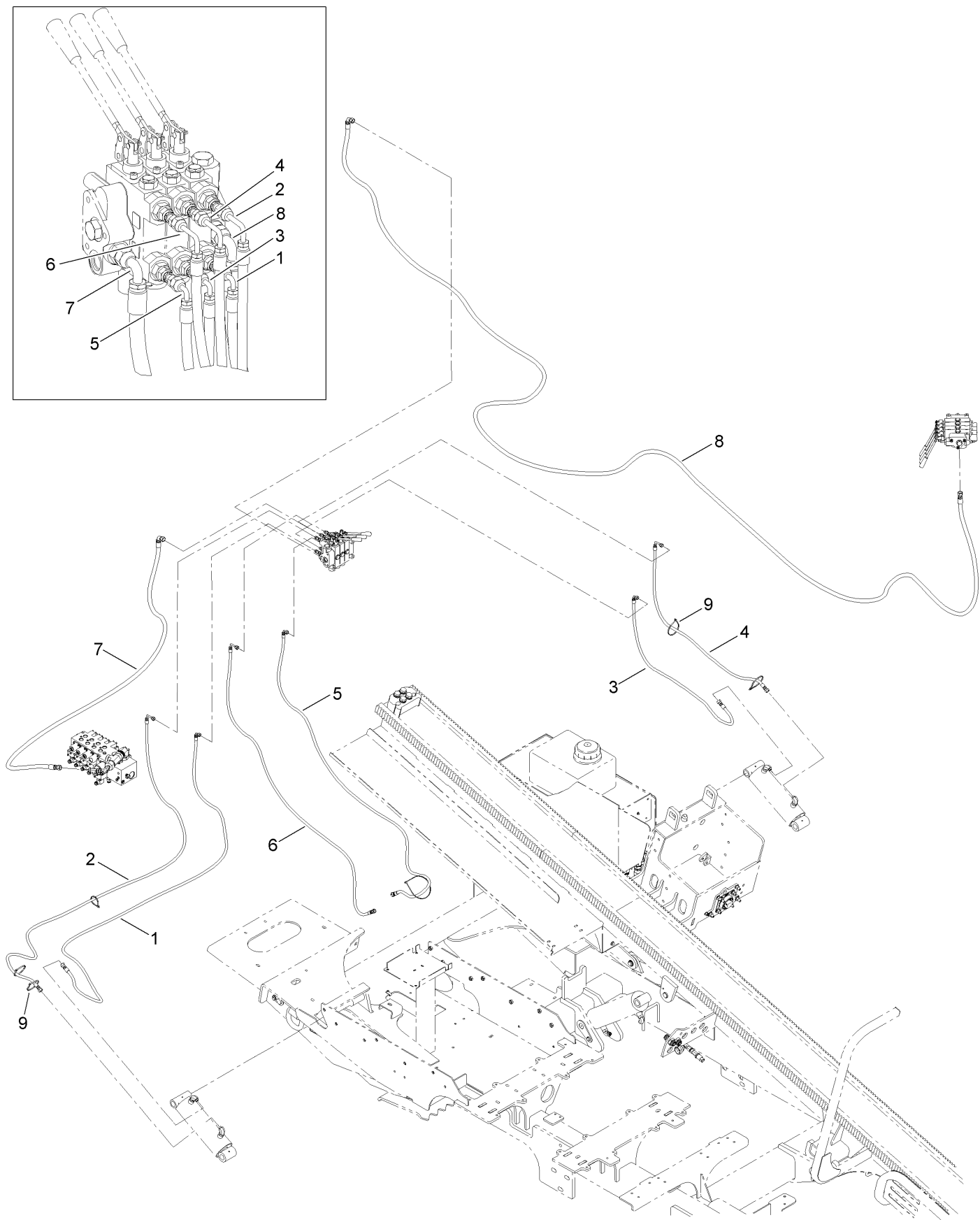


Engine Intake and Exhaust Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0944	1	Exhaust Mount ASM	14:9	133-6224	1	Plug ASM ●
1:2	125-6129	1	Decal-Warning, Hot Surface	14:10	AU120530	1	Filter-Element ●
2	33106-020	4	Screw-HHF	15	125-6545	1	Air Cleaner ASM
3	3234-42	4	Screw-HHF	15:1	131-7352	1	Cleaner-Air ●
4	AU117217	2	Band-Mounting, Muffler	15:2	131-0199	1	Secondary Element ●
5	33103-020	10	Screw-HHF	15:3	131-8646	1	Dust Ejection Valve ●
6	81-0130	6	Nut-Flange, NI	15:4	131-8647	4	M6 Mounting Clips ●
7	125-6546	1	Exhaust	15:5	131-8648	1	Front Service Cover ●
8	AU130306	1	Tube-Exhaust, Out	15:6	131-8649	1	Pre-Cleaner ●
9	AU130386	1	Tube-Exhaust, Turbo	16	AU130446	1	Elbow-Intake, Air Cleaner
10	AU130579	3	Clamp-Torctite	17	AU130308	1	Tube-Intake, Turbo
11	AU8NG28118	2	Clamp-Guillotine	18	AU130458	1	Hose-Intake, Turbo
12	AUP206302	1	Pipe-Stack	19	AU102427	3	Clamp-Torque, Constant
14	AU118636	1	Filter-HYD, High Pressure	20	AU102431	1	Clamp-Torque, Constant
14:1	133-6217	1	Head ASM ●	21	340-52	2	Fitting-Elbow, 90
14:2	133-6218	1	Bowl-Filter ●	21:1	237-101	1	O-Ring
14:3	133-6219	1	Filter Seal Kit ●	21:2	340-64	1	O-Ring
14:4	133-6220	1	O-Ring ●	22	AU293797A1	1	Switch ASM
14:5	133-6221	1	Backup Ring ●	23	AU217-1050	1	Fitting-Elbow, 90
14:6	AU125774	1	Indicator-Filter ●	24	AU130657	1	Wrap-Exhaust
14:7	133-6222	1	Bypass Valve ASM ●	25	AUA170467	1	Clamp
14:8	133-6223	1	Bushing ●				

● Not illustrated

3 Spool Hydraulic Valve Plumbing Assembly

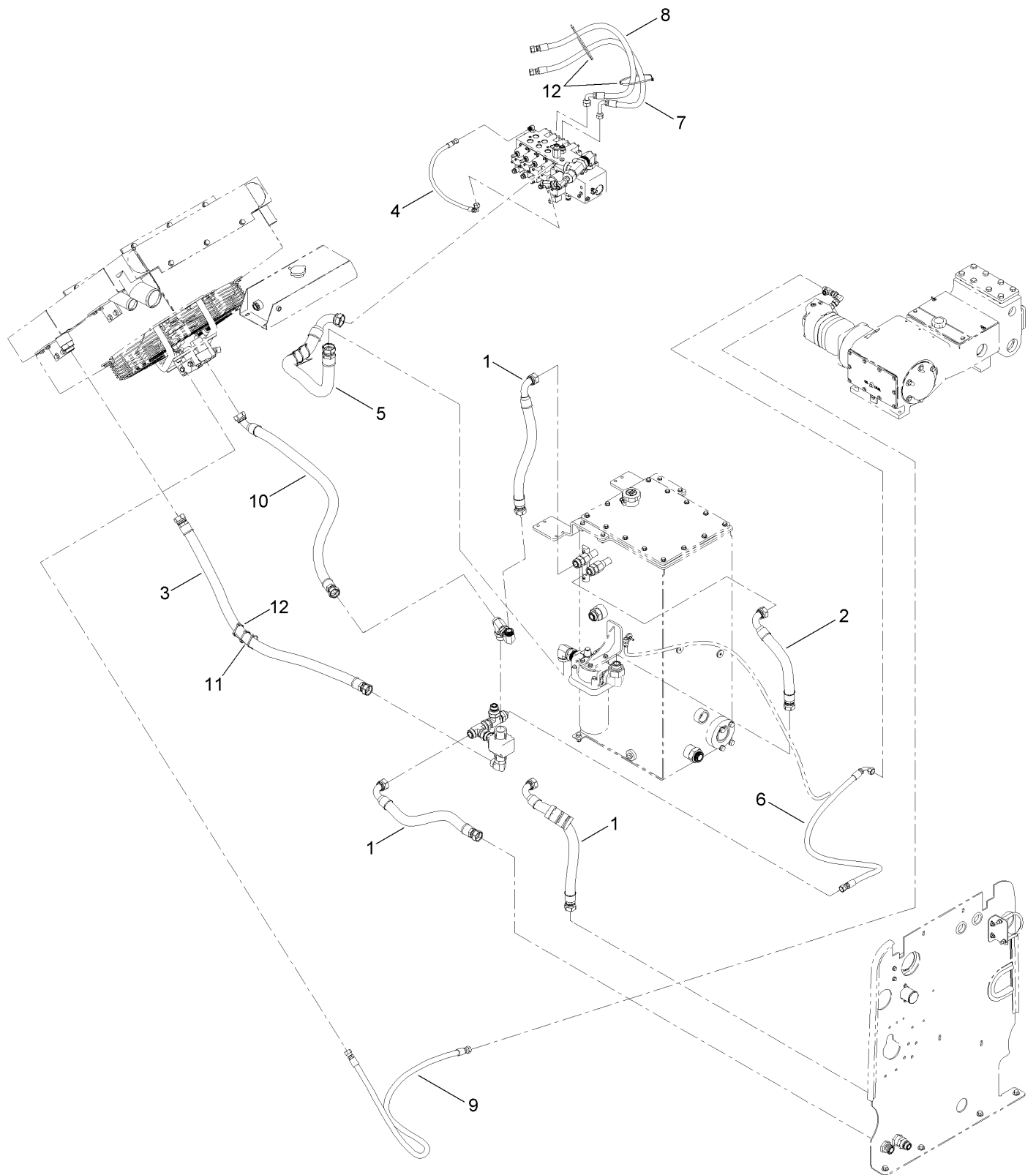


3 Spool Hydraulic Valve Plumbing Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119767	1	Hose ASM-HYD
2	AU119768	1	Hose ASM-HYD
3	AU119769	1	Hose ASM-HYD
4	AU119770	1	Hose ASM-HYD
5	AU119771	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
6	AU119772	1	Hose ASM-HYD
7	AU119799	1	Hose ASM-HYD
8	AU121093	1	Hose ASM-HYD
9	3290-379	6	Tie-Cable

Hydraulic Tank Hose Plumbing Assembly



Hydraulic Tank Hose Plumbing Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119779	3	Hose ASM-HYD	7	AU120426	1	Hose ASM-HYD
2	AU119790	1	Hose ASM-HYD	8	AU120427	1	Hose ASM-HYD
3	AU119798	1	Hose ASM-HYD	9	AU120428	1	Hose ASM-HYD
4	AU119801	1	Hose ASM-HYD	10	AU119796	1	Hose ASM-HYD
5	AU120423	1	Hose ASM-HYD	11	AU112950	3	Protector-Hose, 4 Inch
6	AU120425	1	Hose ASM-HYD	12	3290-379	11	Tie-Cable

Track Pod Hydraulic Plumbing Assembly

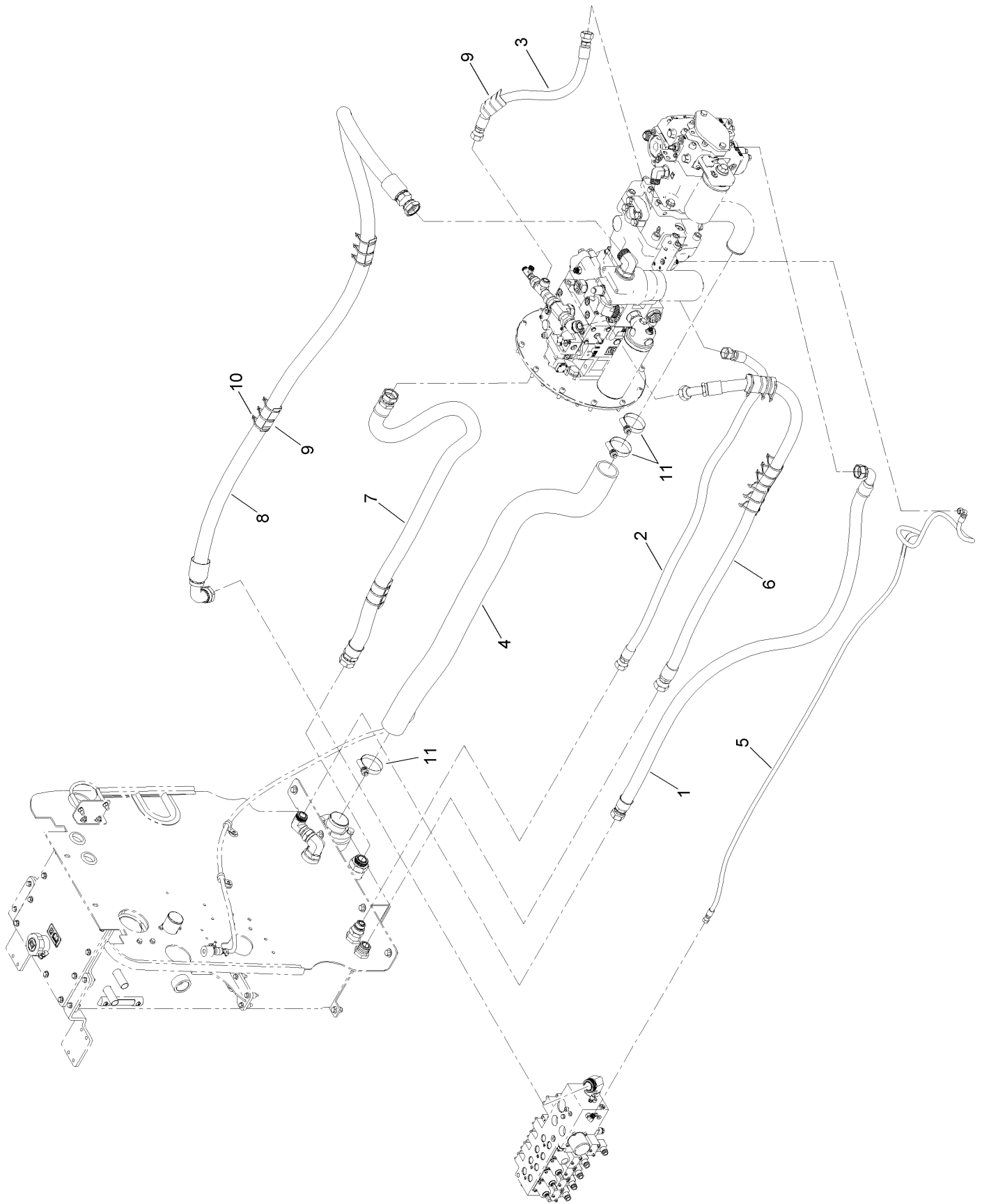


Track Pod Hydraulic Plumbing Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119747	1	Hose ASM-HYD
2	AU119748	1	Hose ASM-HYD
3	AU119749	1	Hose ASM-HYD
4	AU119750	1	Hose ASM-HYD
5	127-0855	1	Hose ASM-HYD
6	AU119775	1	Hose ASM-HYD
7	127-0770	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
8	AU119778	1	Hose ASM-HYD
9	AU119783	1	Hose ASM-HYD
10	AU121962	1	Hose ASM-HYD
11	127-0868	1	Hose ASM-HYD
12	AU121097	1	Hose ASM-HYD
13	AU112950	1	Protector-Hose, 4 Inch
14	3290-379	4	Tie-Cable

Hydraulic Pump Hose Assembly No. 1

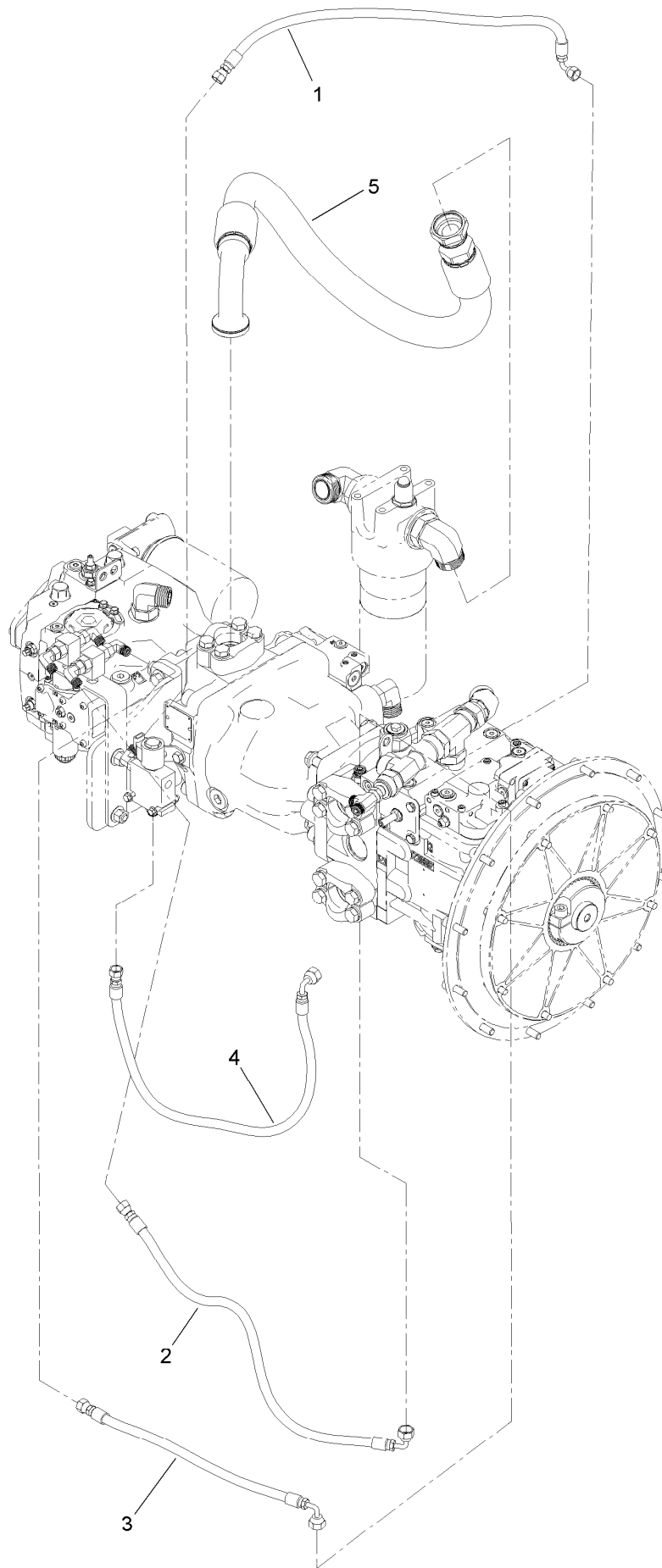


Hydraulic Pump Hose Assembly No. 1 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU121089	1	Hose ASM-HYD
2	AU126529	1	Hose ASM-HYD
3	AU119776	1	Hose ASM-HYD
4	AU119795	1	Hose-Suction
5	AU120424	1	Hose ASM-HYD
6	AU120735	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
7	AU120737	1	Hose ASM-HYD
8	AU121870	1	Hose ASM-HYD
9	AU112950	7	Protector-Hose, 4 Inch
10	3290-379	21	Tie-Cable
11	104-9240	3	Clamp-Hose

Hydraulic Pump Hose Assembly No. 2

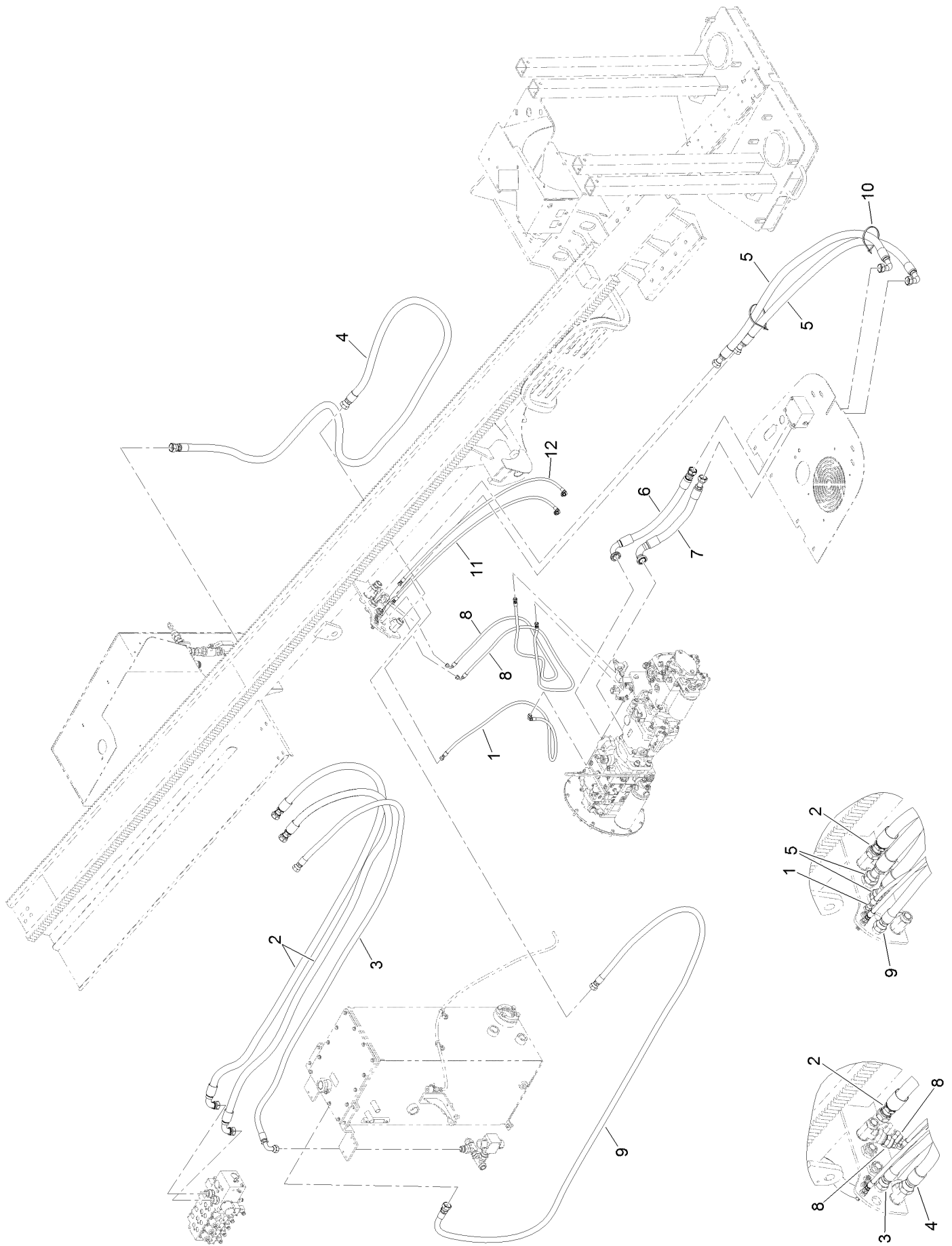


Hydraulic Pump Hose Assembly No. 2 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119797	1	Hose ASM-HYD
2	127-0857	1	Hose ASM-HYD
3	AU120430	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	AU126526	1	Hose ASM-HYD
5	AU121899	1	Hose ASM-HYD

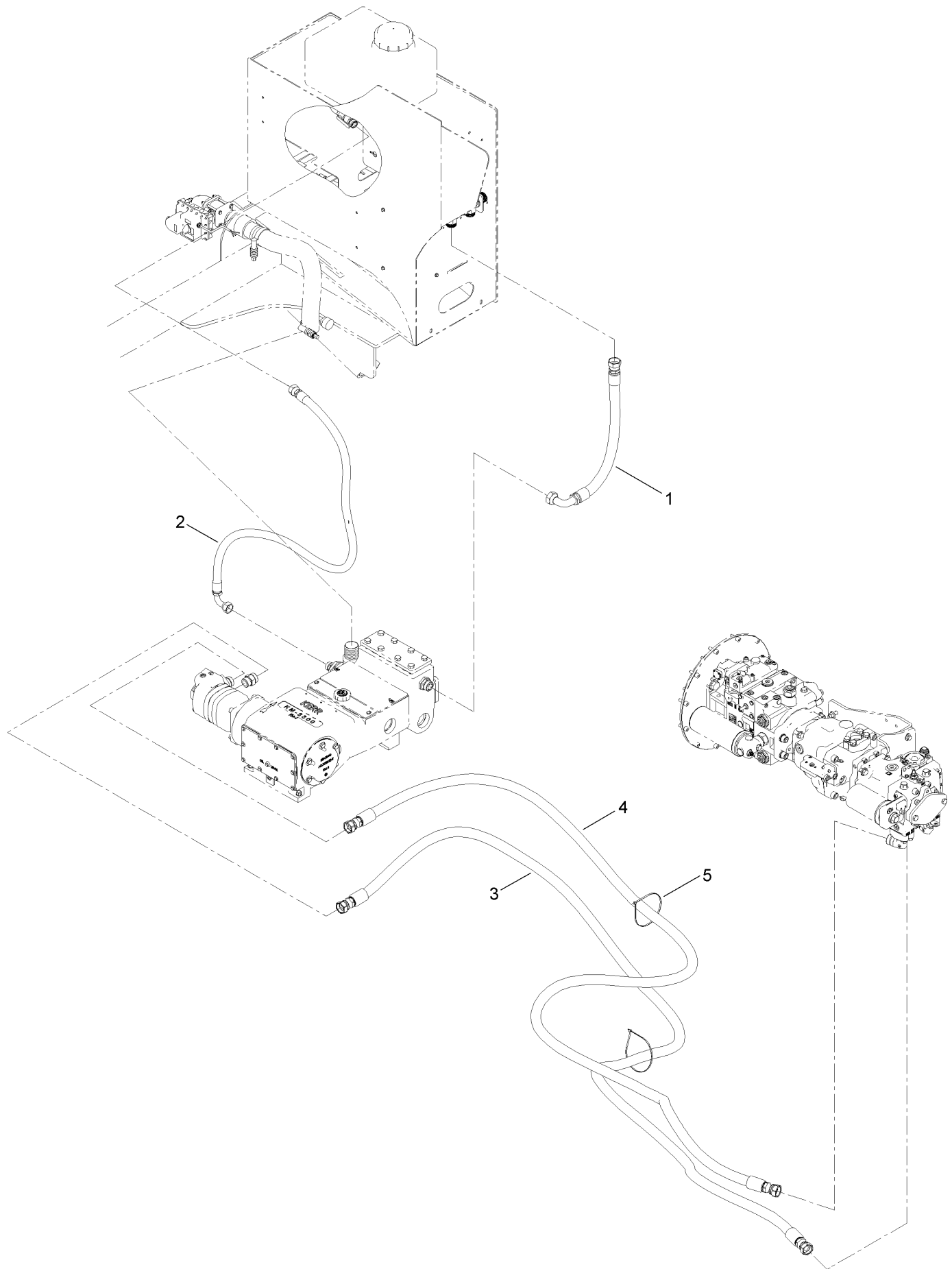
Hydraulic Pump Hose Assembly No. 3



Hydraulic Pump Hose Assembly No. 3 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU120738	1	Hose ASM-HYD	7	AU126534	1	Hose ASM-HYD
2	AU120740	2	Hose ASM-HYD	8	AU120734	2	Hose ASM-HYD
3	AU120745	1	Hose ASM-HYD	9	127-0862	1	Hose ASM-HYD
4	AU120746	1	Hose ASM-HYD	10	3334-945	2	Tie-Cable
5	AU126530	2	Hose ASM-HYD	11	131-9027	1	Hose ASM-HYD
6	132-5702	1	Hose ASM-HYD	12	133-9590	1	Hose ASM-HYD

Hydraulic Pump Hose Assembly No. 4

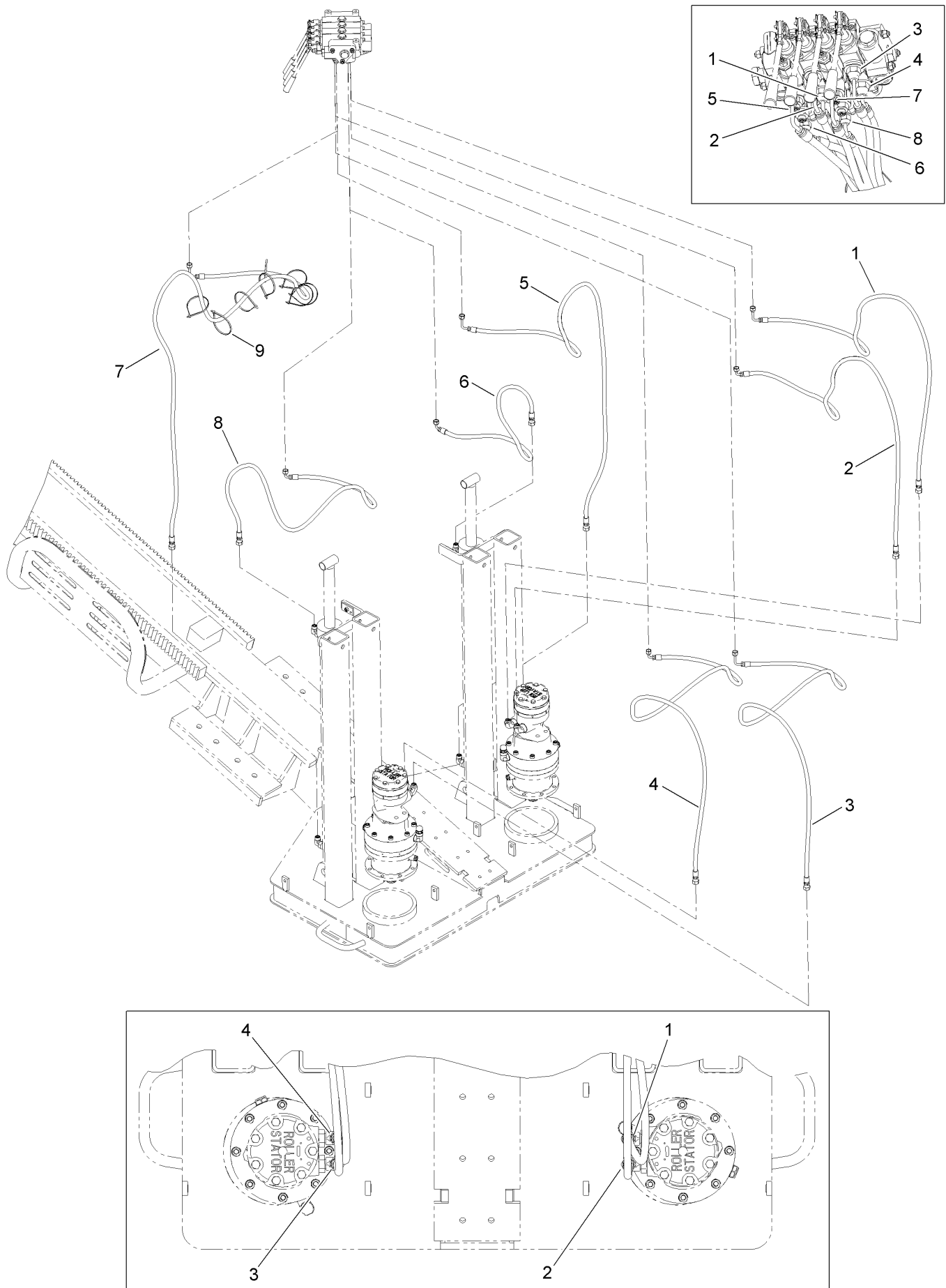


Hydraulic Pump Hose Assembly No. 4 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU117617	1	Hose ASM-HYD
2	AU119780	1	Hose ASM-HYD
3	AU126527	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	AU126528	1	Hose ASM-HYD
5	3290-379	2	Tie-Cable

Thrust Frame Hydraulic Hose Assembly No. 1

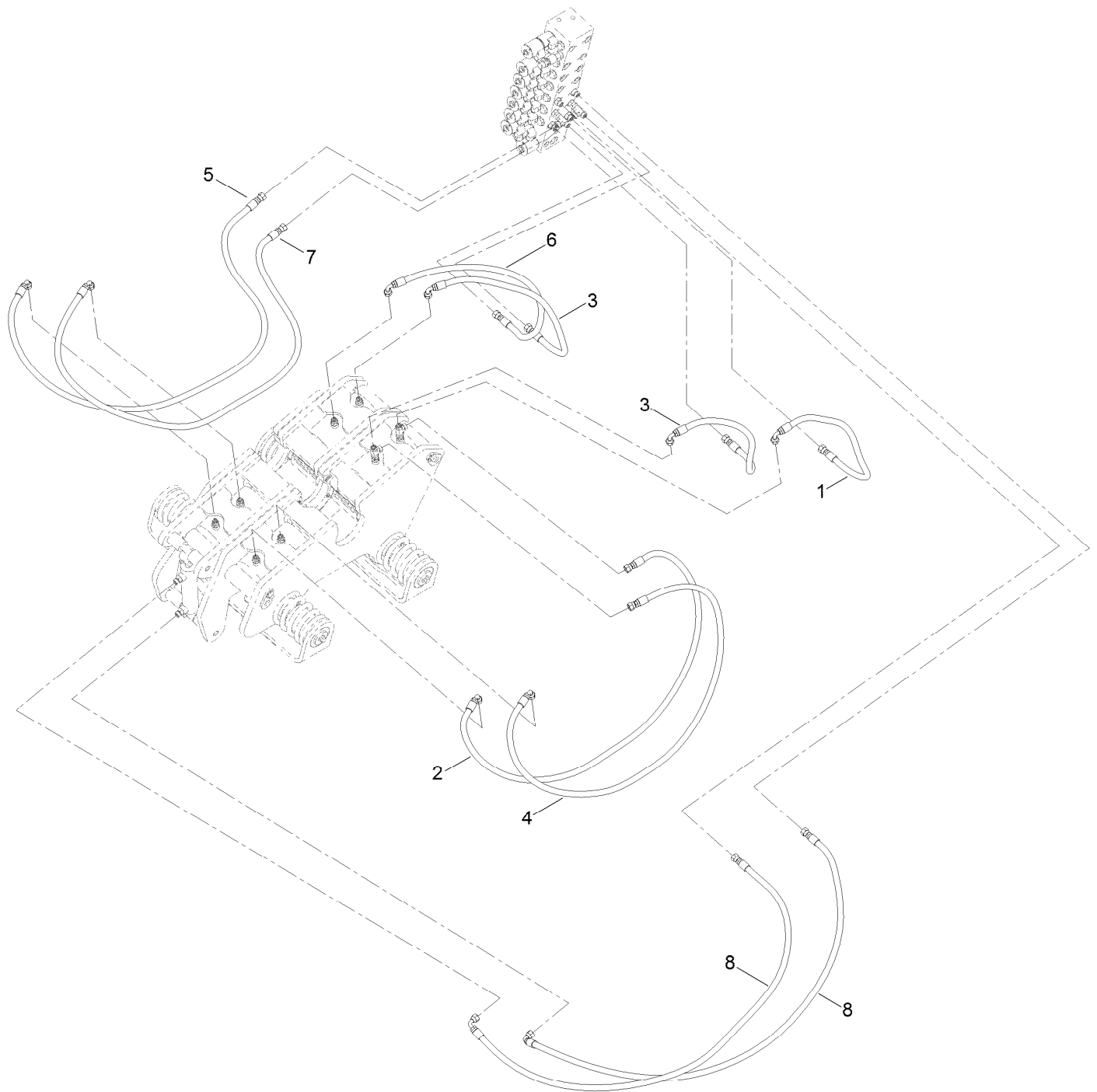


Thrust Frame Hydraulic Hose Assembly No. 1 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU126536	1	Hose ASM-HYD
2	AU126537	1	Hose ASM-HYD
3	AU126538	1	Hose ASM-HYD
4	AU126539	1	Hose ASM-HYD
5	AU126540	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
6	AU126541	1	Hose ASM-HYD
7	AU126542	1	Hose ASM-HYD
8	AU126543	1	Hose ASM-HYD
9	3290-379	8	Tie-Cable

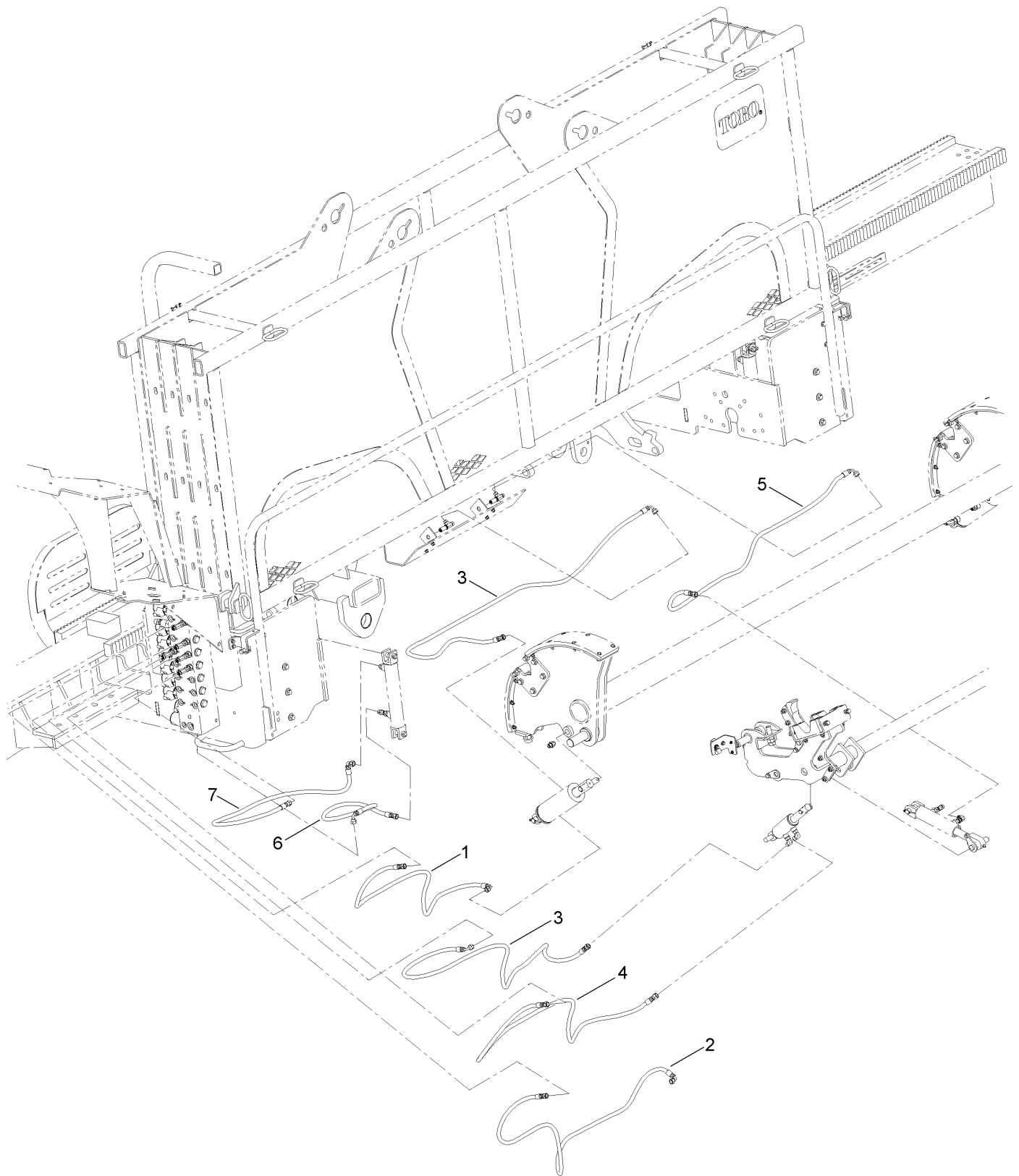
Thrust Frame Hydraulic Hose Assembly No. 2



Thrust Frame Hydraulic Hose Assembly No. 2 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-0858	1	Hose ASM-HYD	5	131-0037	1	Hose ASM-HYD
2	127-0859	1	Hose ASM-HYD	6	127-0864	1	Hose ASM-HYD
3	127-0860	2	Hose ASM-HYD	7	131-0036	1	Hose ASM-HYD
4	127-0866	1	Hose ASM-HYD	8	131-0061	2	Hose ASM-HYD

Thrust Frame Hydraulic Hose Assembly No. 3

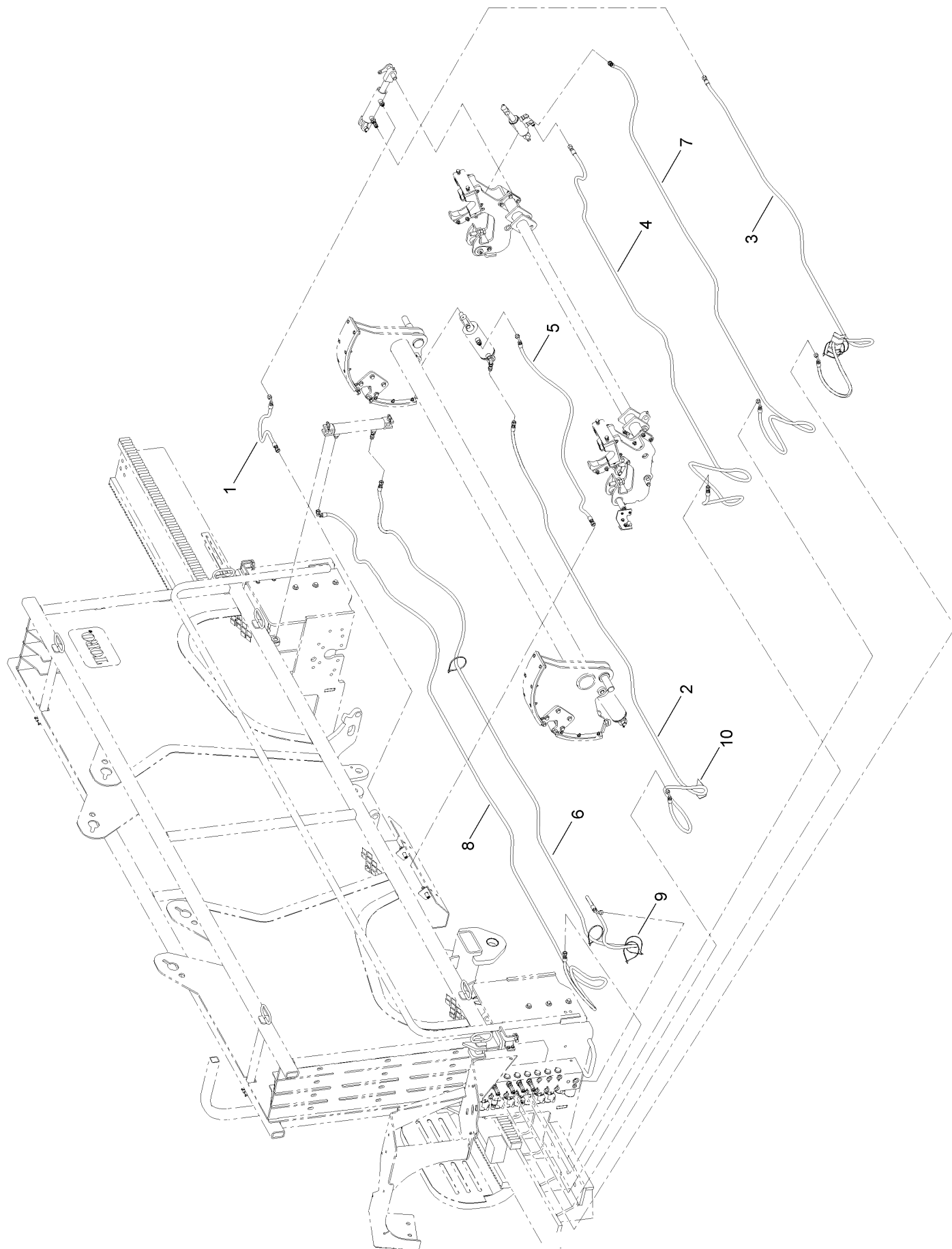


Thrust Frame Hydraulic Hose Assembly No. 3 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU121102	1	Hose ASM-HYD
2	AU120757	1	Hose ASM-HYD
3	AU120764	2	Hose ASM-HYD
4	AU120761	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	AU120732	1	Hose ASM-HYD
6	AU120765	1	Hose ASM-HYD
7	AU120769	1	Hose ASM-HYD

Thrust Frame Hydraulic Hose Assembly No. 4

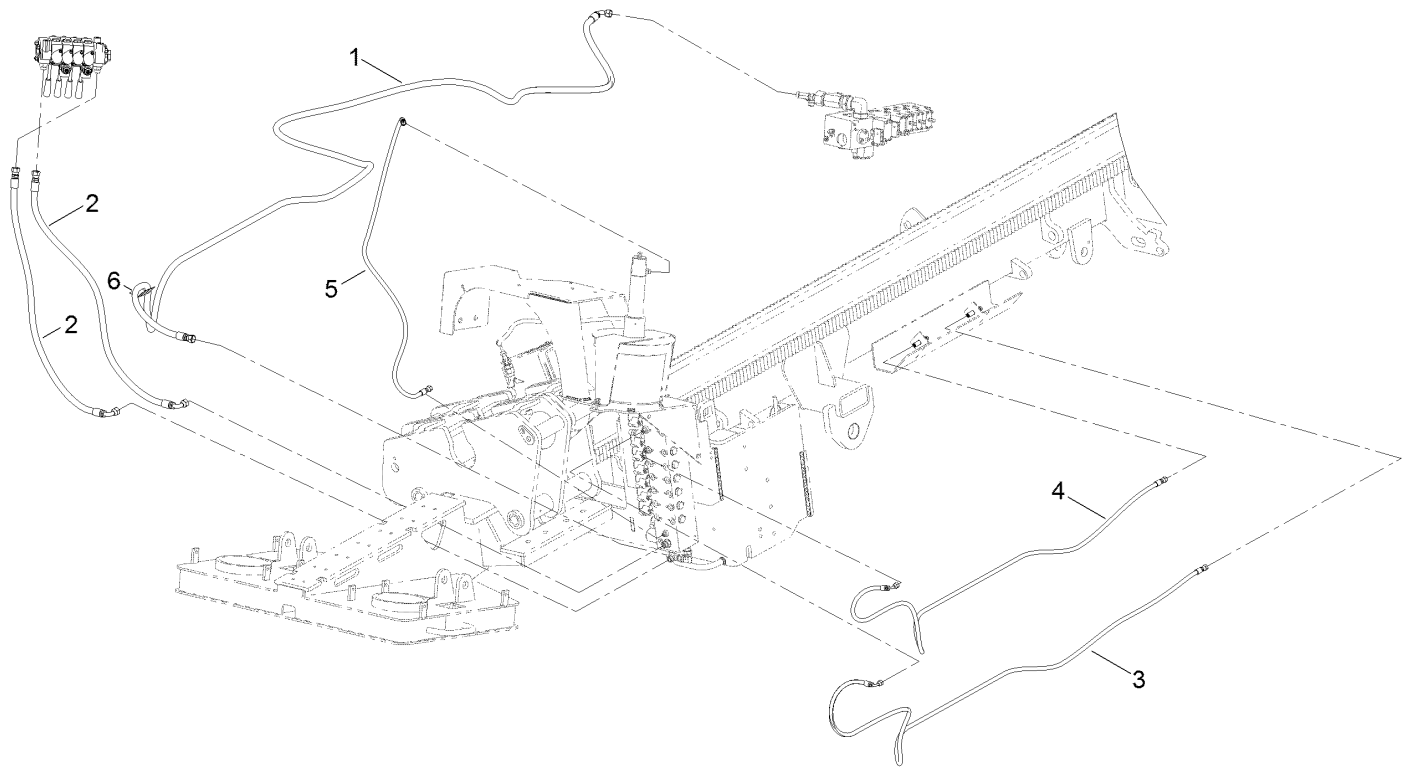


Thrust Frame Hydraulic Hose Assembly No. 4 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU119797	1	Hose ASM-HYD
2	AU120758	1	Hose ASM-HYD
3	AU120759	1	Hose ASM-HYD
4	AU120762	1	Hose ASM-HYD
5	AU120732	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
6	AU120766	1	Hose ASM-HYD
7	AU120767	1	Hose ASM-HYD
8	AU120768	1	Hose ASM-HYD
9	3290-379	7	Tie-Cable
10	AU112950	2	Protector-Hose, 4 Inch

Thrust Frame Hydraulic Hose Assembly No. 5

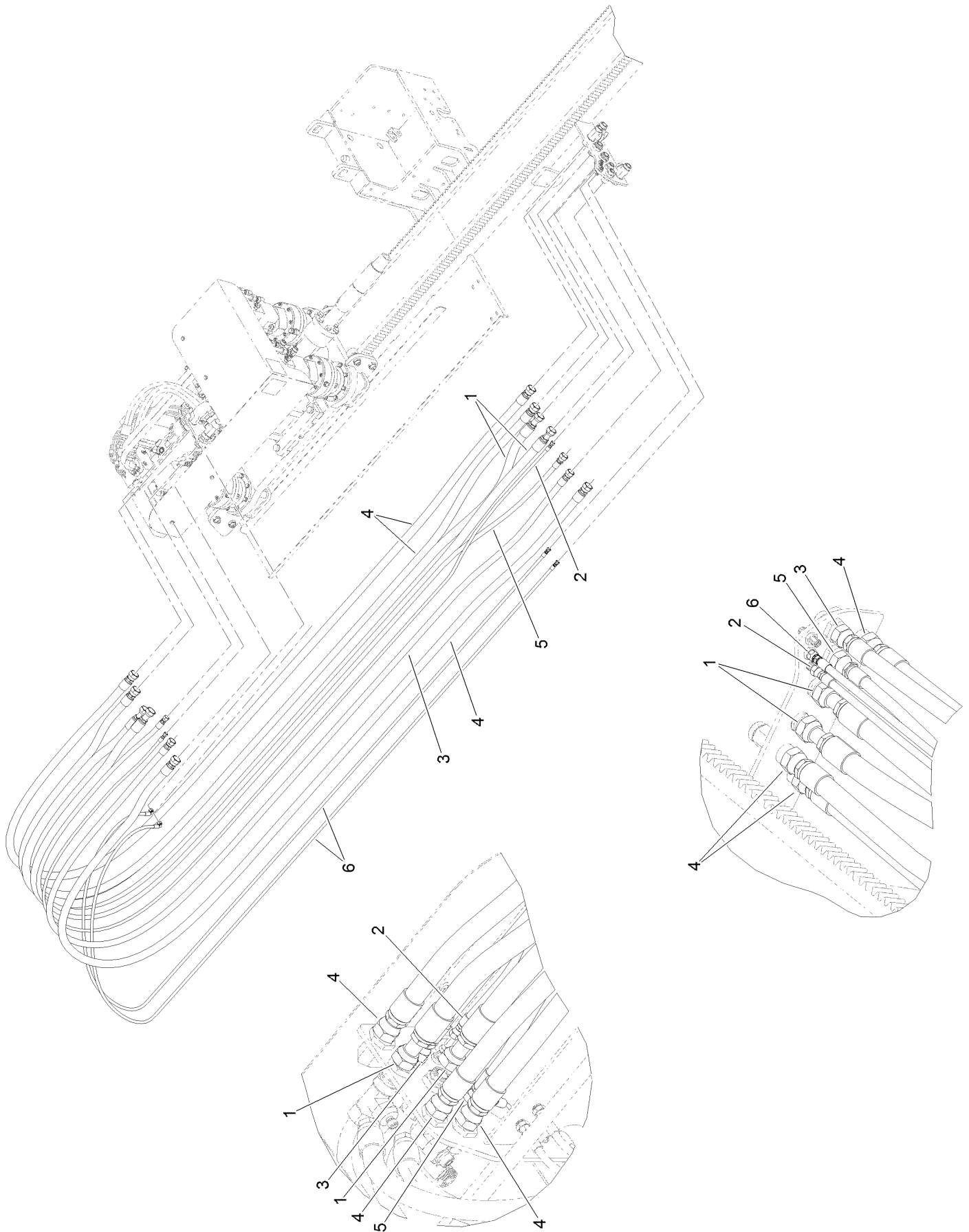


Thrust Frame Hydraulic Hose Assembly No. 5 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU121097	1	Hose ASM-HYD
2	AU121963	2	Hose ASM-HYD
3	AU121100	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	AU120763	1	Hose ASM-HYD
5	127-0899	1	Hose ASM-HYD
6	AU112950	1	Protector-Hose, 4 Inch

Thrust Frame Hydraulic Hose Assembly No. 6

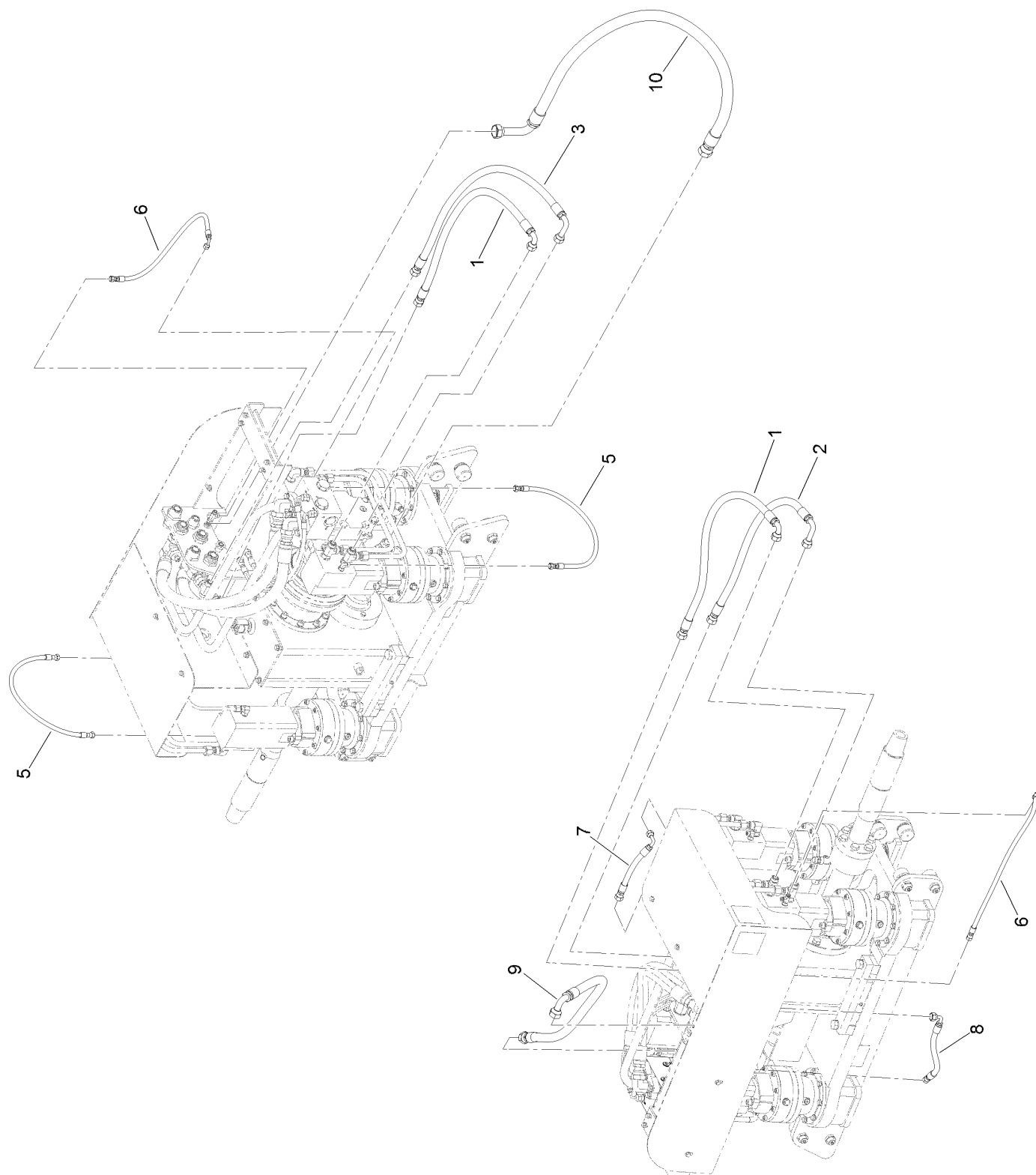


Thrust Frame Hydraulic Hose Assembly No. 6 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU120742	2	Hose ASM-HYD
2	AU121098	1	Hose ASM-HYD
3	AU121777	1	Hose ASM-HYD

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	AU121780	3	Hose ASM-HYD
5	127-0861	1	Hose ASM-HYD
6	133-9569	2	Hose ASM-HYD

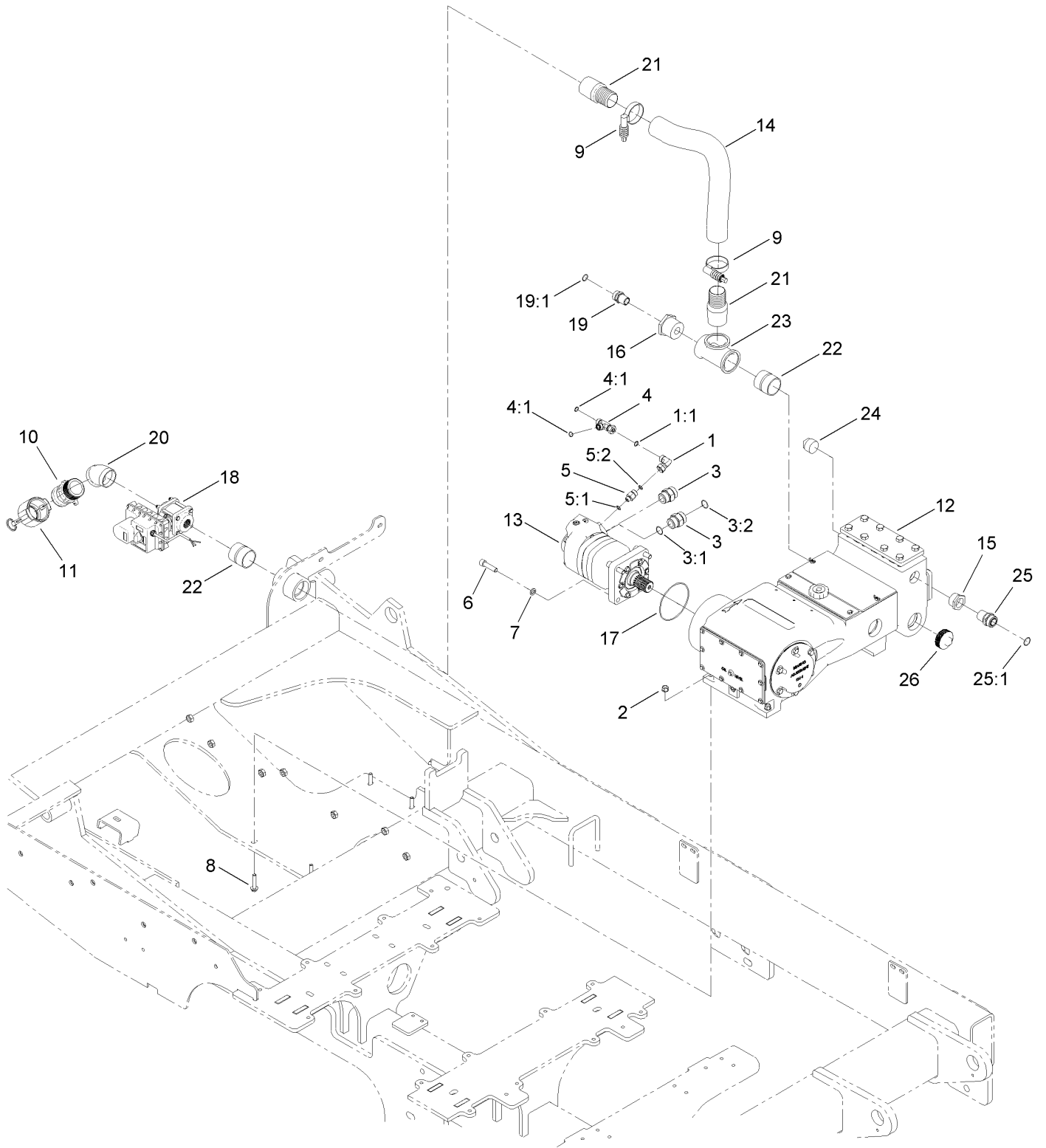
Thrust Frame Hydraulic Hose Assembly No. 7



Thrust Frame Hydraulic Hose Assembly No. 7 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU120731	2	Hose ASM-HYD	7	AU120743	1	Hose ASM-HYD
2	AU121090	1	Hose ASM-HYD	8	AU120744	1	Hose ASM-HYD
3	AU121091	1	Hose ASM-HYD	9	AU126535	1	Hose ASM-HYD
5	AU119794	2	Hose ASM-HYD	10	AU121099	1	Hose ASM-HYD
6	127-0770	2	Hose ASM-HYD				

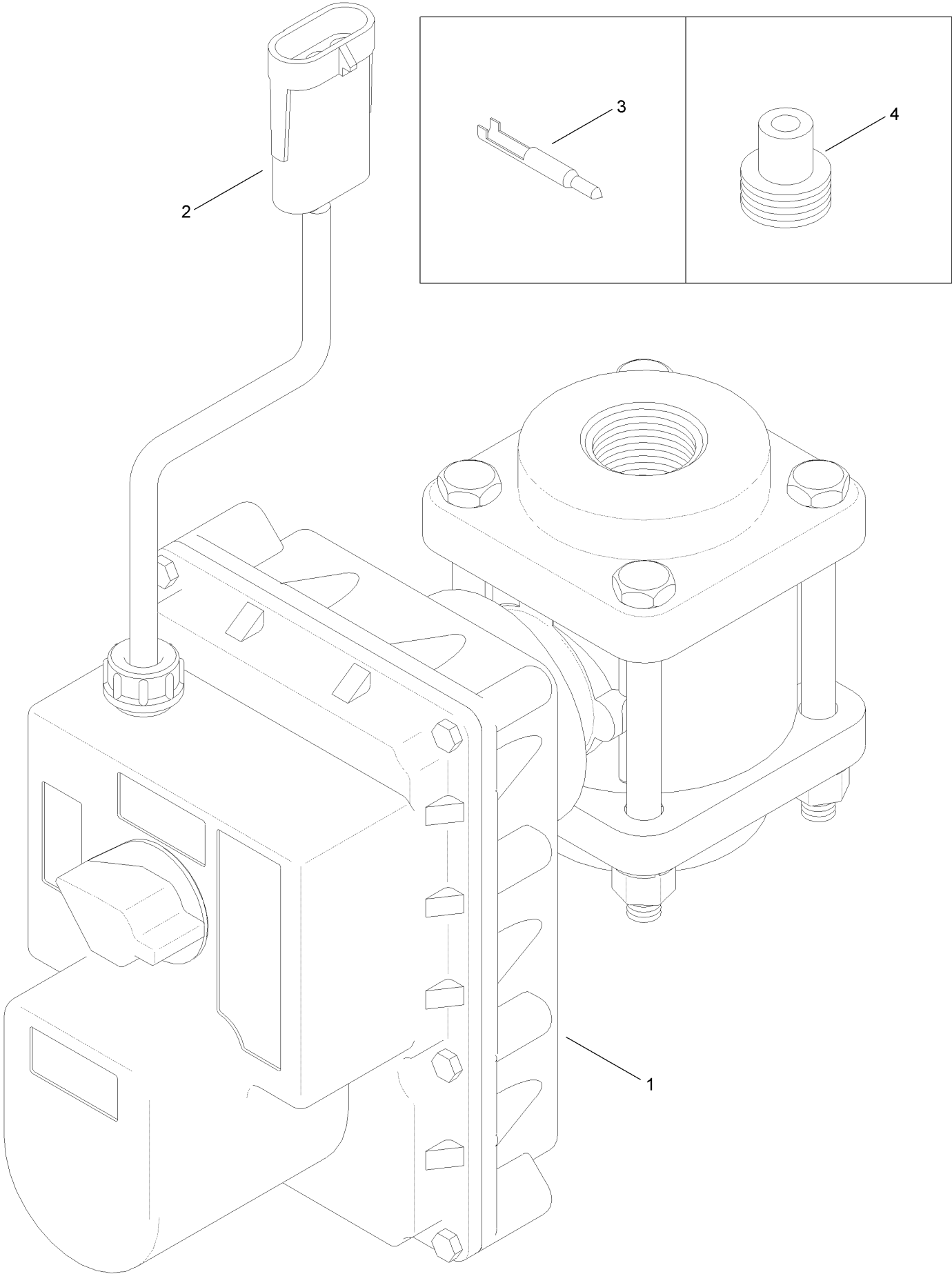
Mud Pump Assembly



Mud Pump Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	94-6031	1	Fitting-HYD	13	AU117459	1	HYD Motor ASM
1:1	237-30	1	O-Ring	14	AU119785	1	Hose-Suction
2	103-9511	4	Nut-Lock, NI	15	AU221-70	1	Fitting-Reducer
3	104-3797	2	Fitting-HYD, Straight	16	AU65-CI-1750	1	Fitting-Reducer
3:1	237-146	1	O-Ring	17	AU70-9004104-158	1	Seal-O Ring
3:2	340-65	1	O-Ring	18	AU6HV29033	1	2 Inch Ball Valve ASM (Electric)
4	340-104	1	Fitting-HYD, Tee	19	AU8OA11212	1	Fitting-Straight
4:1	237-30	2	O-Ring	19:1	237-58	1	O-Ring
5	340-5	1	Fitting-Straight	20	AU8PE15032	1	Elbow-Pipe, 45 DEG
5:1	237-42	1	O-Ring	21	AU8PN11332	2	Nipple-Combination
5:2	237-30	1	O-Ring	22	AU8PN23200	2	Nipple-Pipe
6	3274-5	4	Screw-HSH	23	AU8PT10032	1	Tee-Pipe
7	3253-7	4	Washer-Lock	24	127-0977	1	Plug-Square Head
8	33105-050	4	Screw-HHF	25	AU8OA11616	1	Fitting-Straight
9	AU110569	2	Clamp-Torque, Constant	25:1	340-65	1	O-Ring
10	AU110378	1	Adapter-Male	26	AU8PP10032	1	Plug-Pipe, Square Head
11	AU110379	1	Cap-Disconnect, Quick				
12	127-5292	1	Mud Pump ASM				

2 Inch Ball Valve Assembly No. AU6HV29033

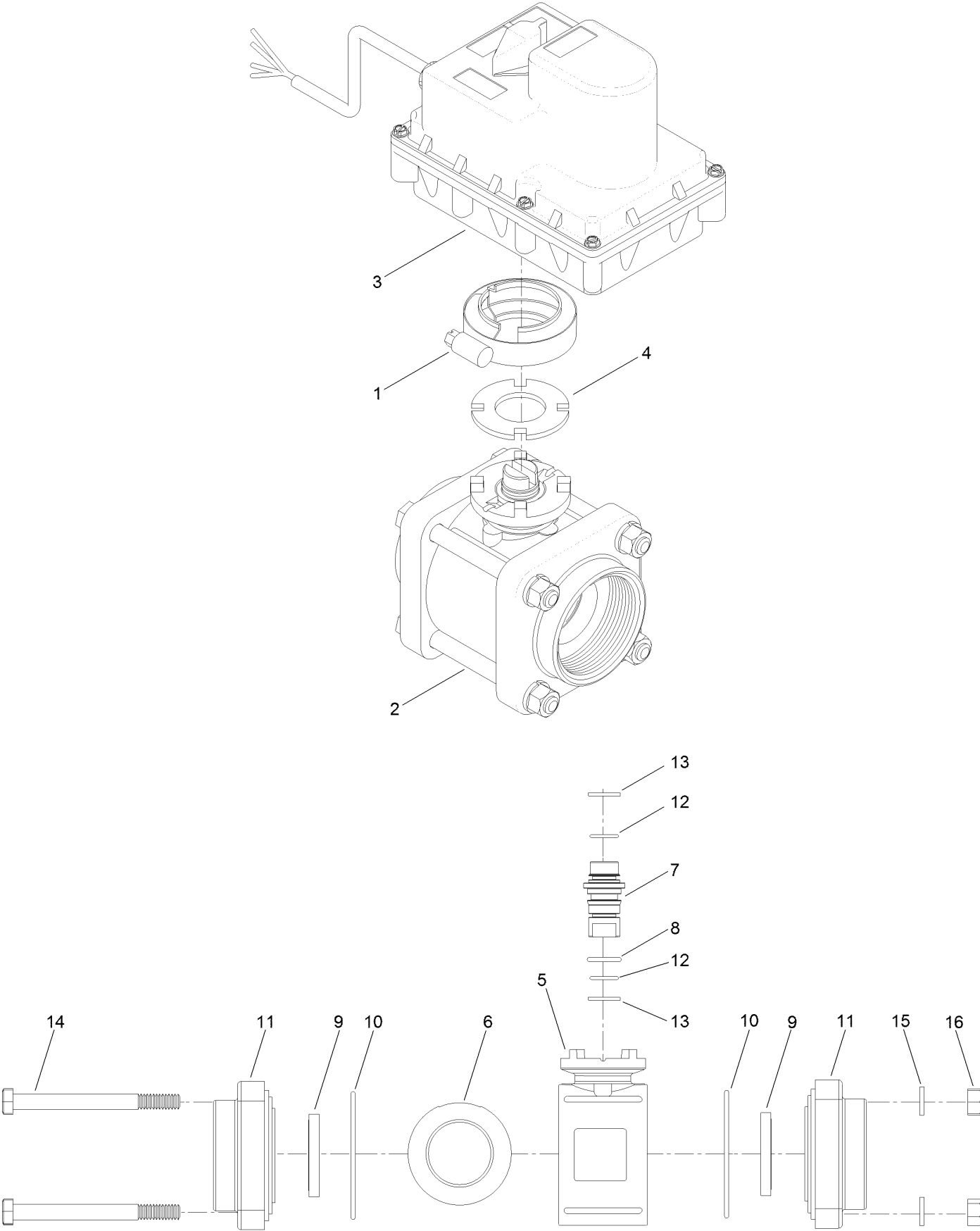


2 Inch Ball Valve Assembly No. AU6HV29033 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU8HV29033	1	Water Shutoff Valve ASM
2	AU8EC92203	1	Connector-Male, 3-Way (Body Only)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
3	AU8EC92302	3	Terminal-Male
4	AU8EC92502	3	Seal

Water Shutoff Valve Assembly No. AU8HV29033

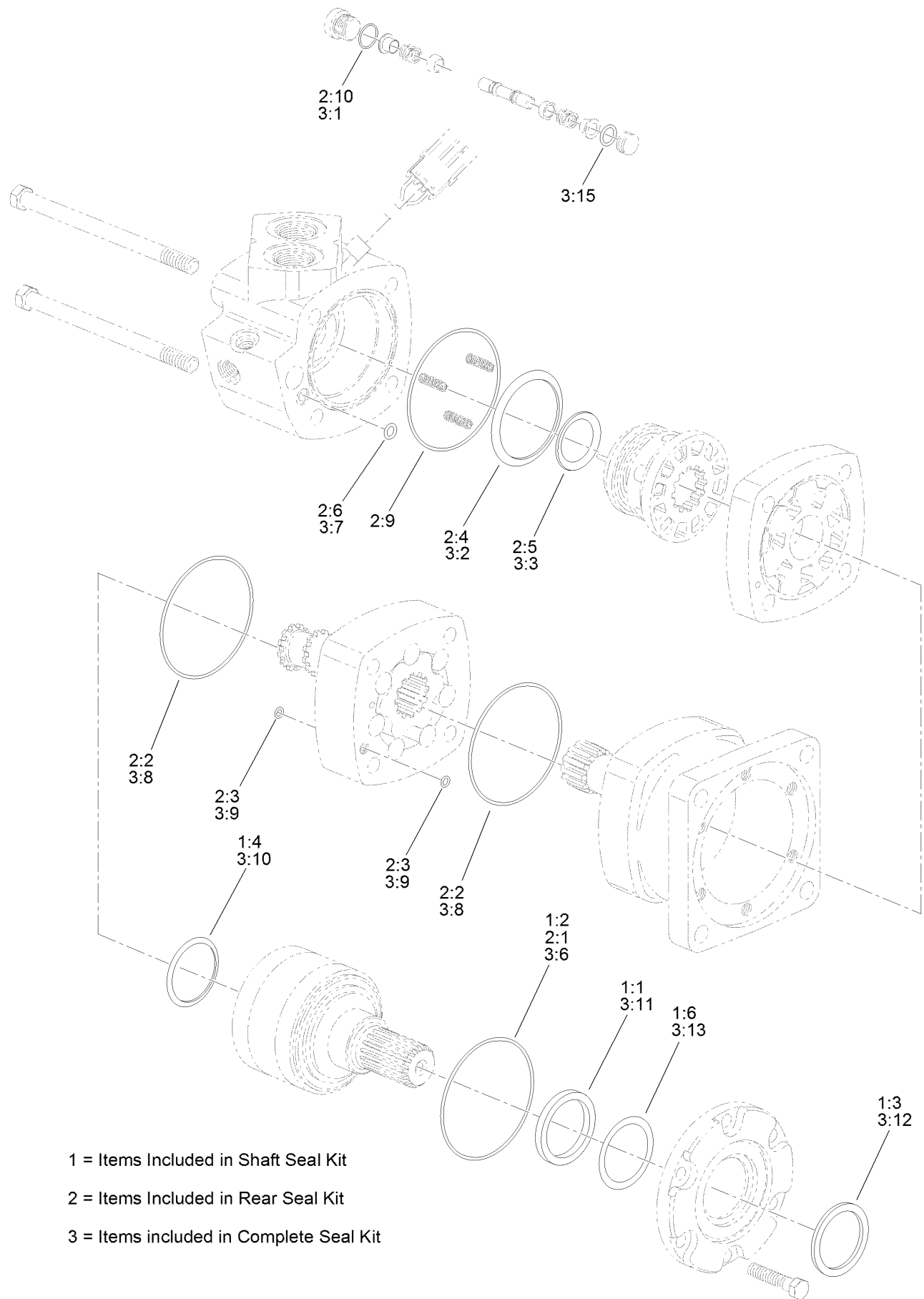


Water Shutoff Valve Assembly No. AU8HV29033 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU114153	1	Clamp-Flange
2	AU114154	1	Valve
3	AU114155	1	Motor
4	AU114156	1	Filter
5	AU114157	1	Body-Valve
6	AU114158	1	Ball-Hollow
7	AU114159	1	Stem-Valve
8	AU114160	1	O-Ring

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
9	AU114161	2	Seat-Valve
10	AU114162	2	O-Ring
11	AU114163	2	Plate-End
12	AU114164	2	O-Ring
13	AU114165	2	Seal-Valve
14	98-5961	4	Screw-HH
15	3253-21	4	Washer-Lock
16	146211	4	Nut

Hydraulic Motor Assembly No. AU117459



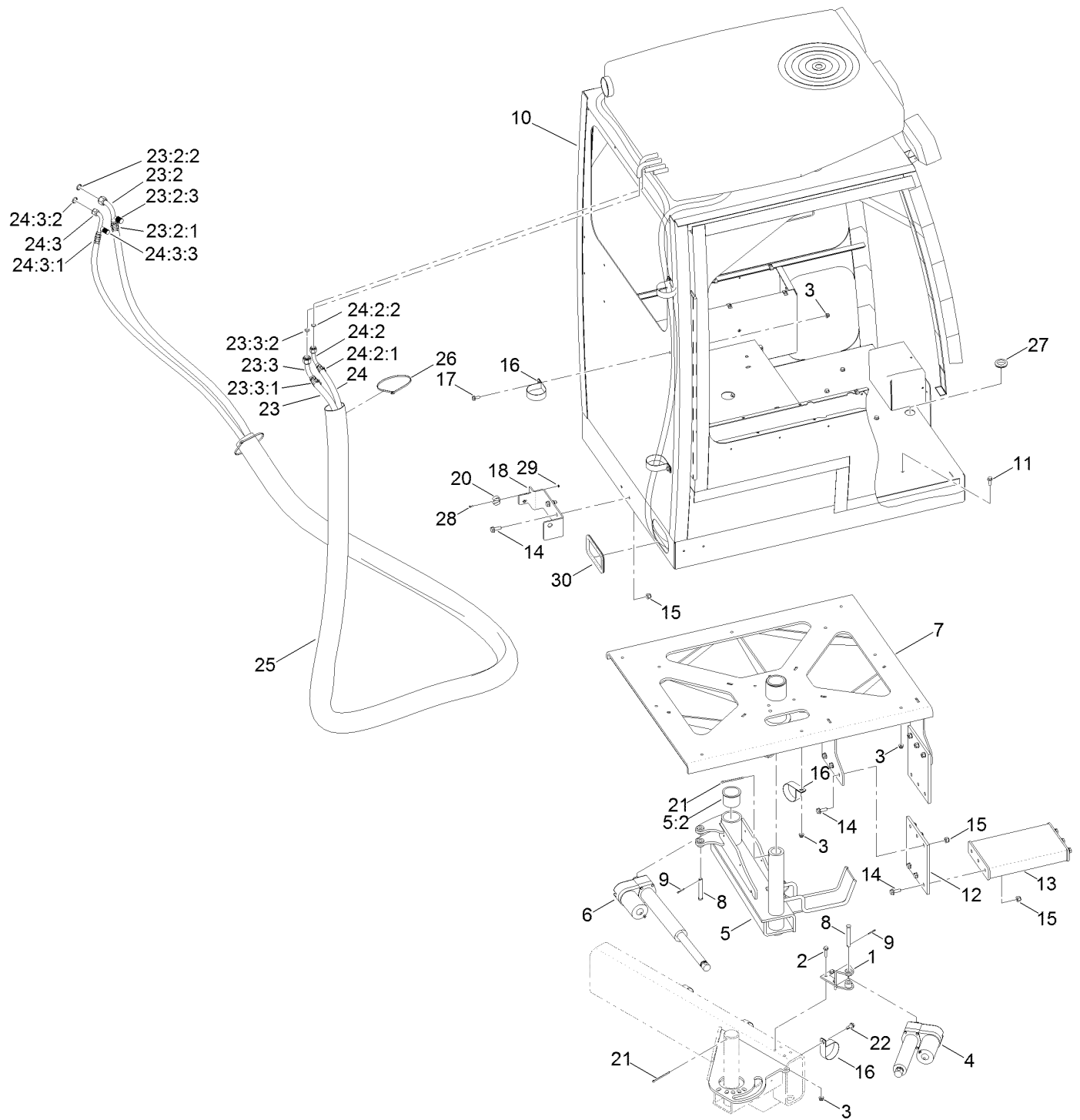
Hydraulic Motor Assembly No. AU117459 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-3439	1	Seal Kit
1:1		1	Seal ●
1:2		1	O-Ring ●
1:3		1	Seal-Dust ●
1:4		1	Seal-Face, Shaft ●
1:6		1	Ring-Backup ●
2	131-3440	1	Seal Kit
2:1		1	O-Ring ●
2:2		2	O-Ring ●
2:3		2	O-Ring ●
2:4		1	Seal-Face, Outer ●
2:5		1	Seal-Face, Inner ●
2:6		1	O-Ring ●
2:9		1	Seal ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2:10	131-3441	2	O-Ring ●
3		1	Seal Kit
3:1		1	O-Ring ●
3:2		1	Seal-Face, Outer ●
3:3		1	Seal-Face, Inner ●
3:6		2	O-Ring ●
3:7		1	O-Ring ●
3:8		2	O-Ring ●
3:9		2	O-Ring ●
3:10		1	Seal-Shaft Face ●
3:11		1	Seal ●
3:12		1	Seal-Dust ●
3:13		1	Ring-Backup ●
3:15		1	O-Ring ●

● Not serviced separately

Operator Cab Assembly No. 1

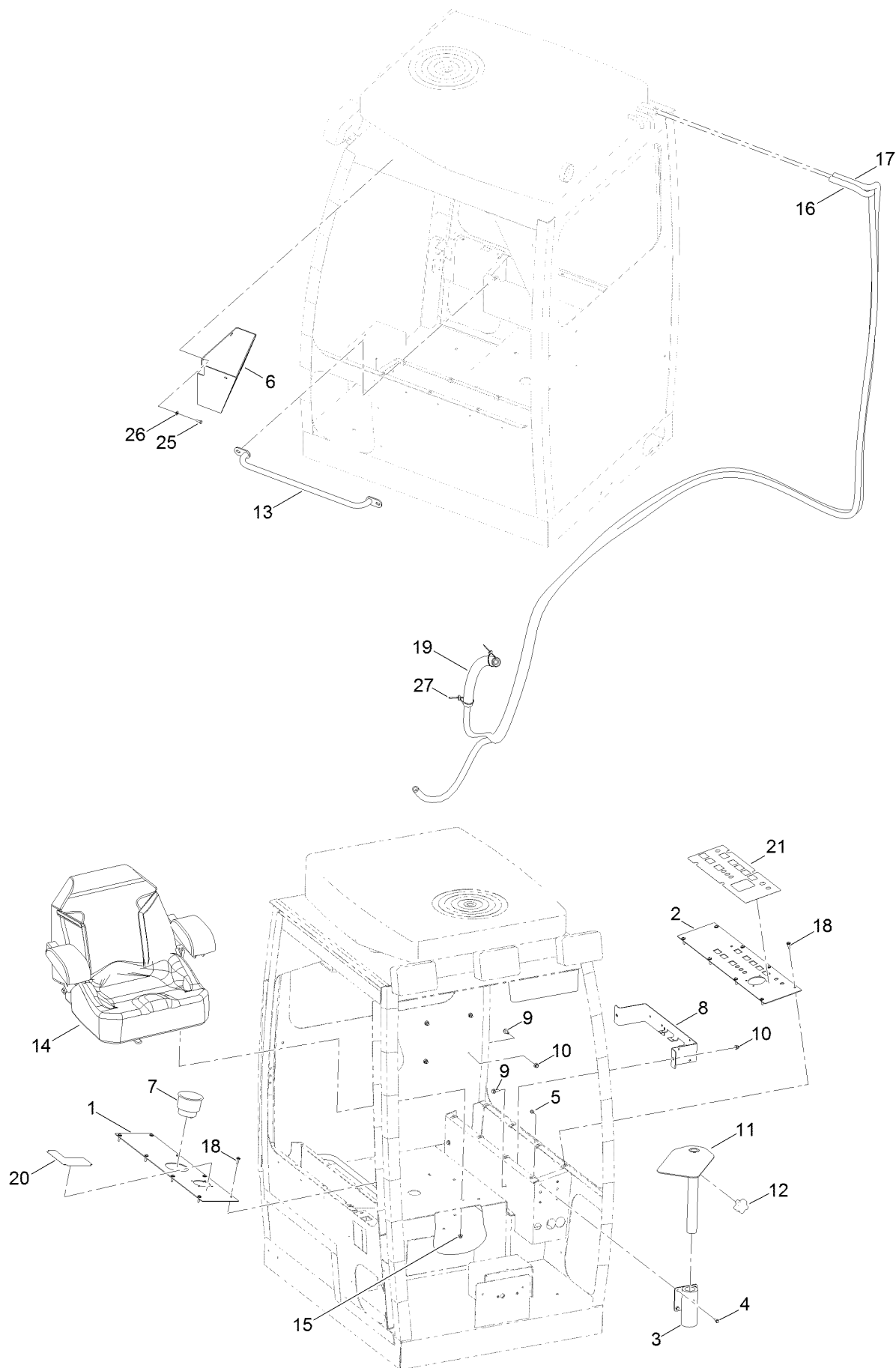


Operator Cab Assembly No. 1 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU124541-03	1	Bracket-Cab	23	130-4491	1	Hose ASM
2	33104-035	4	Screw-HHF	23:2		1	Ftg-90 DEG, Female ●
3	104-3082	21	Nut-Lock, HHF	23:2:1	130-5775	1	Fitting Kit
4	130-4545	1	Cylinder-Electric, 4 Inch	23:2:2	117-2780	1	O-Ring
5	131-0150	1	Cab Pivot ASM	23:2:3	117-2784	1	Cap-Side, Low
5:2	AU12GB9215	2	Bearing-Flanged	23:3		1	Ftg-90 DEG, Female ●
6	130-4546	1	Cylinder-Electric, 8 Inch	23:3:1	130-5775	1	Fitting Kit
7	125-6524	1	Cab Mount ASM	23:3:2	117-2780	1	O-Ring
8	283-69	4	Pin-Clevis	24	130-4492	1	Hose ASM-AC
9	3272-11	4	Pin-Cotter	24:2		1	Ftg-90 DEG, Female ●
10	AU124581	1	Operator Cab ASM	24:2:1	130-5773	1	Fitting Kit
11	33104-025	14	Screw-HHF	24:2:2	117-2779	1	O-Ring
12	AU101442	2	Strap-Support, Step	24:3		1	Fitting-Female, 90 DEG ●
13	AU125595-03	1	Step	24:3:1	130-5773	1	Fitting Kit
14	33105-030	14	Screw-HHF	24:3:2	117-2779	1	O-Ring
15	103-9511	14	Nut-Lock, NI	24:3:3	117-2783	1	Cap-Side, High
16	AU91-900729-15	7	Clamp-Support	25	130-4515	1	Sleeve-Protective
17	33104-020	3	Screw-HHF	26	3290-379	4	Tie-Cable
18	AU115236-03	1	Plate-Retaining, Cord	27	240-3	1	Grommet-Rubber
20	110-5677	2	Clip-Spring	28	3249-3	2	Screw-PRH
21	AU432-1248	2	Pin-Cotter	29	32149-6	2	Nut-Keps
22	105-6245	3	Screw-Tapping	30	119-0599	1	Trim-Seal

● Not serviced separately

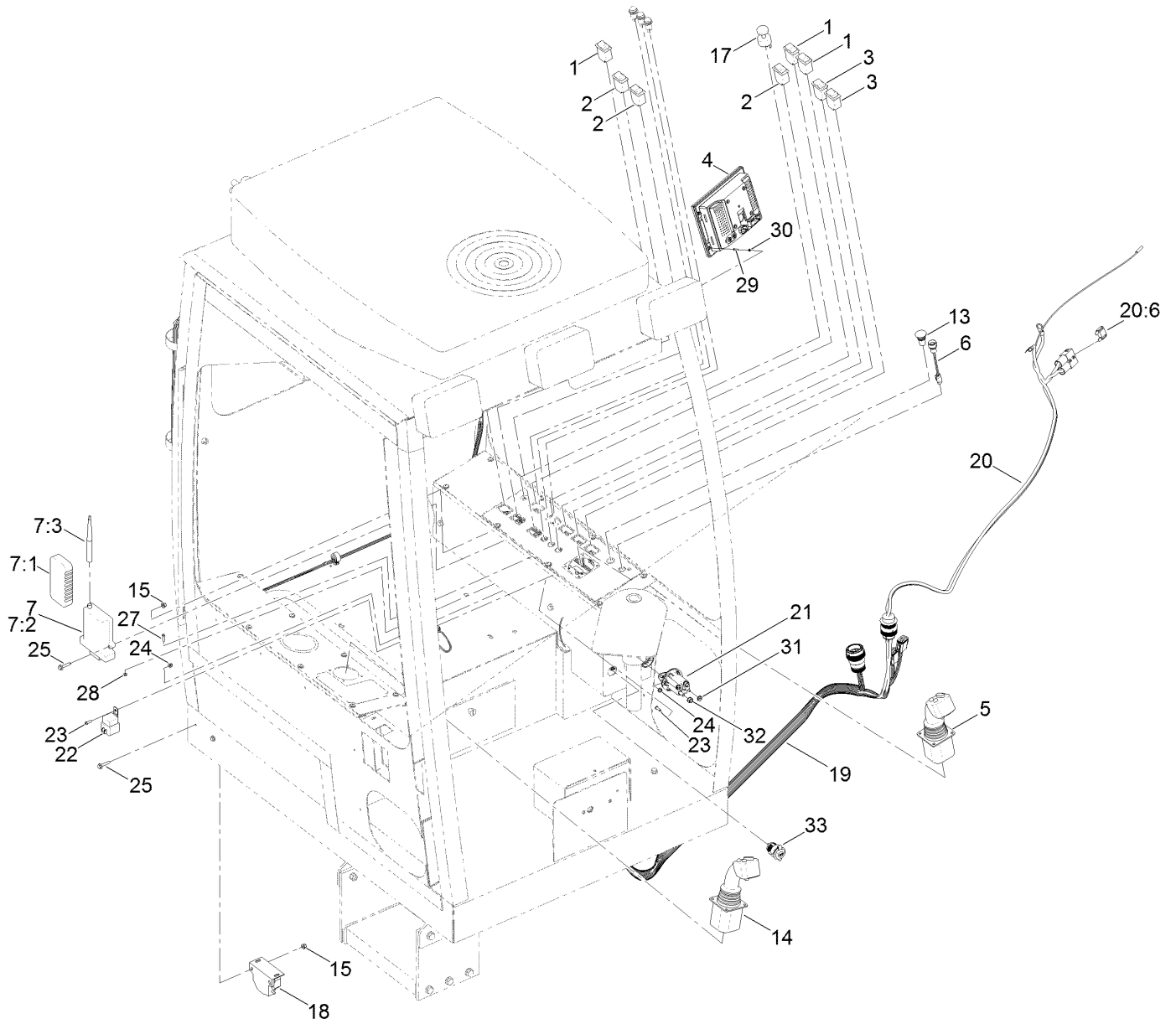
Operator Cab Assembly No. 2



Operator Cab Assembly No. 2 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU125266-03	1	Plate-Console, RH	13	AU125767-03	1	Handle-Cab
2	AU125267-03	1	Plate-Console, LH	14	133-6211	1	Seat-Toro, Standard
3	AU125401-03	1	Mount-Display	15	104-8300	4	Nut-Flange, NI
4	33103-020	4	Screw-HHF	16	AU131303	1	Hose-Heater
5	81-0130	4	Nut-Flange, NI	17	AU131304	1	Hose-Heater
6	AU125675-03	1	Housing-Display	18	110-9361	16	Screw-PPH, Sems
7	AU8EO24121	1	Cup-Holder	19	121-7533	1	Sleeve-Thermal
8	AU125468-03	1	Plate-Mounting, Electrical	20	125-6125	1	Decal-Joystick, Right
9	33104-020	6	Screw-HHF	21	125-6158	1	Decal-Joystick, Left
10	104-3082	6	Nut-Lock, HHF	25	321-4	2	Screw-HH
11	AU125692-03	1	Mount-Locator	26	3256-22	2	Washer-Flat
12	AU125763	1	Knob-Adjustment	27	3290-378	2	Tie-Cable

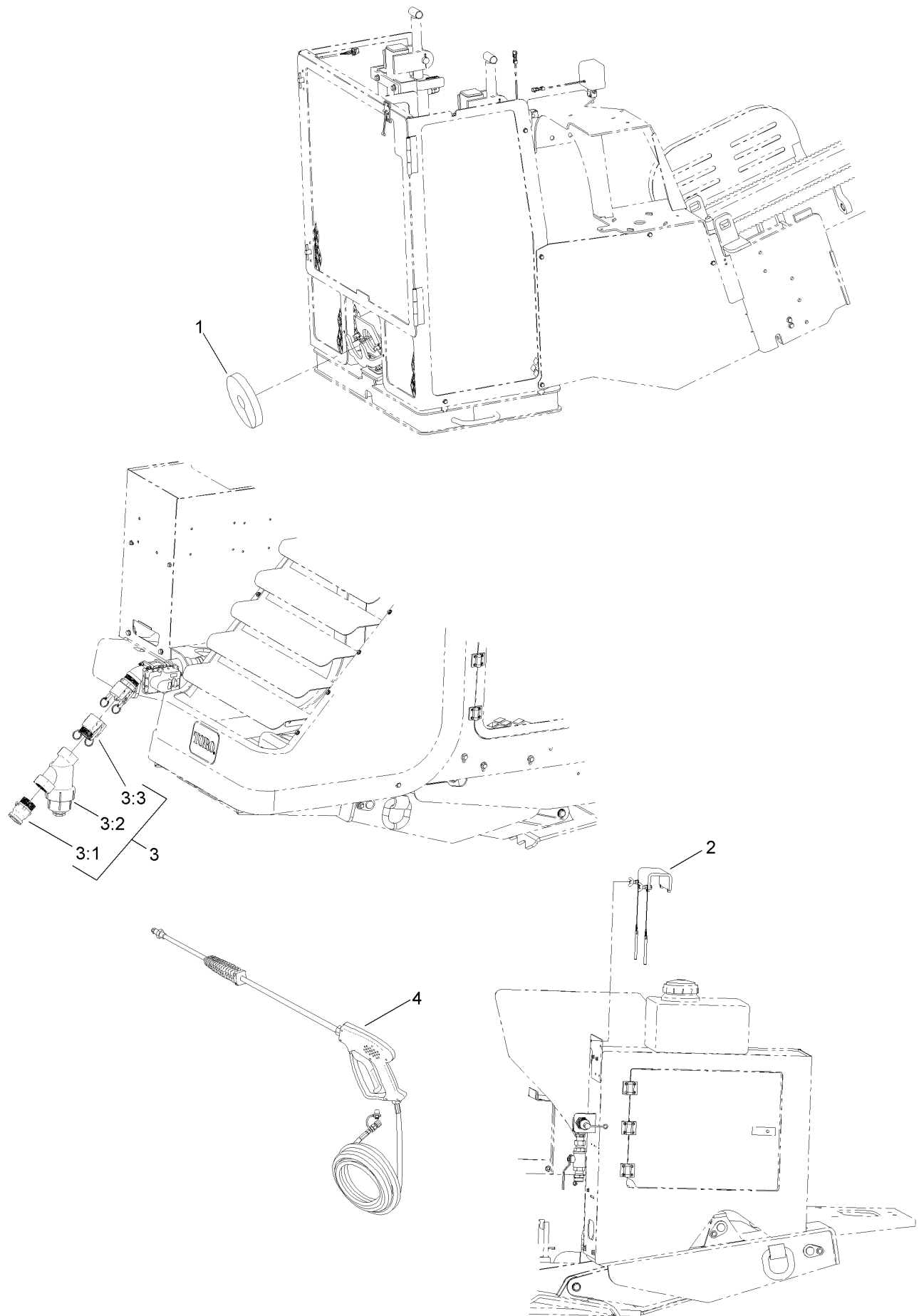
Cab Electrical Assembly



Cab Electrical Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU113662	3	Switch-Rocker, 2 Pole (On/Off)	15	81-0130	4	Nut-Flange, NI
2	AU113664	3	Switch-Rocker, 2 Pole	17	AU30-1260-5588	1	Switch-Wiper
3	AU113665	2	Switch-Rocker, 1 Pole (On)Off/On(Off)	18	AU8EP29105	1	Alarm-Backup
4	131-0118	1	Display-Dp610Tm, Unprogrammed	19	122-0074	1	Harness-Wire, Cab
5	AU117962	1	Joystick-Modified (Left Hand)	20	122-0287	1	Harness-Wire, Cab Power
6	121-6592	1	Switch-Start, Green Button	20:6	114-3342	1	Fuse-Maxi, 60 Amp
7	133-6314	1	Long Range Exit Side Lockout Kit	21	114-3315	1	Solenoid-12 Vdc
7:1	133-6315	1	Handheld-Long Range	22	99-7430	4	Relay
7:2	133-6317	1	Base Unit-Long Range	23	119-7568	4	Screw-HSBH
7:3	130-4462	1	Antenna-Lockout	24	120-4580	4	Nut-HF
13	AU8EP46103	1	Button-Push, Red Mushroom	25	33103-030	4	Screw-HHF
14	AU8EP47613	1	Joystick-Carriage	27	119-7444	4	Screw-HSBH
				28	127-2018	4	Nut-HHF
				29	130-4539	4	Screw-Ph
				30	3296-52	4	Nut-Lock, NI
				31	32149-8	2	Nut-Keps
				32	121-4698	2	Nut-Keps
				33	109-9376	1	Receptacle-12V

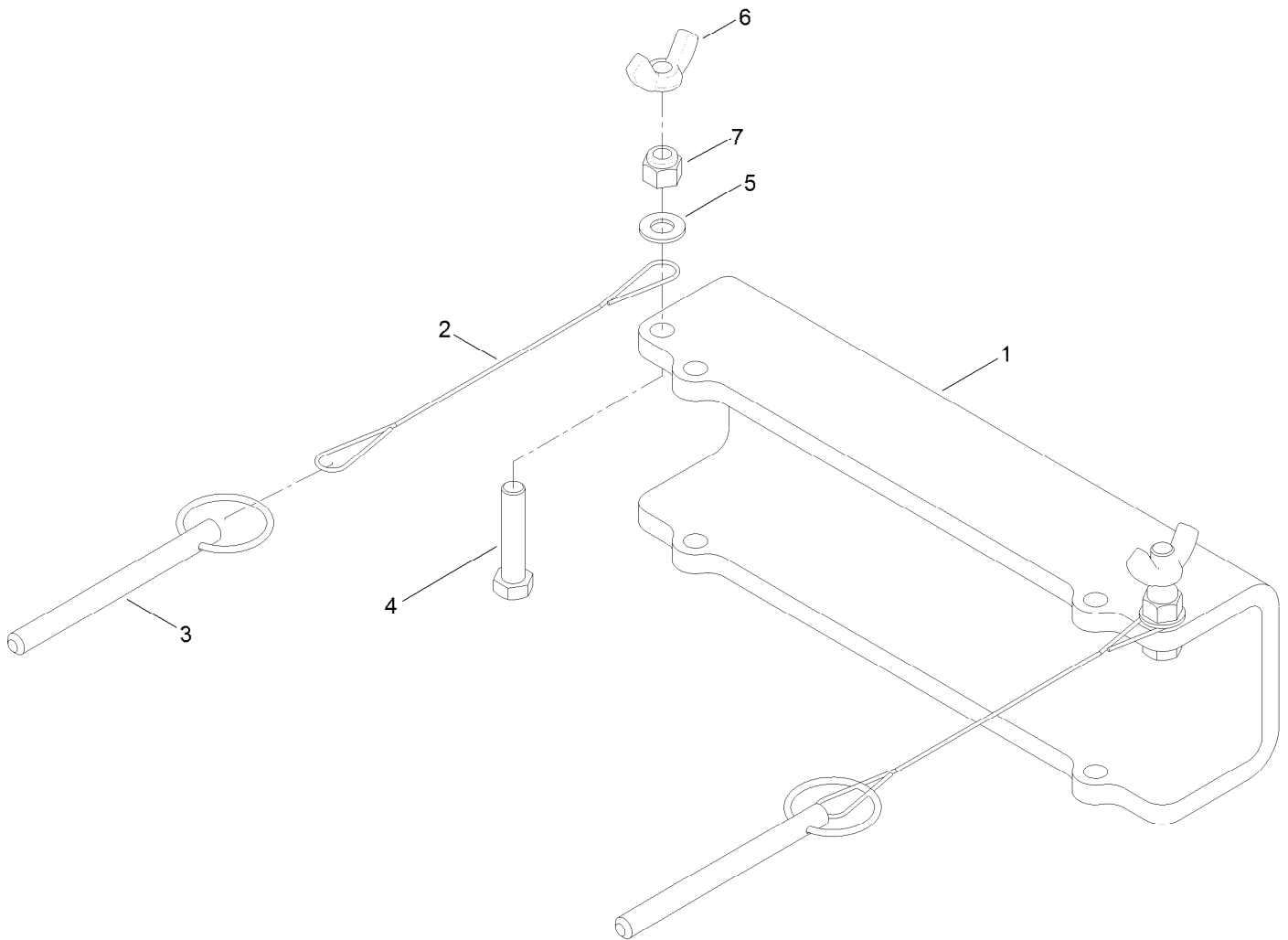
Wash Wand, Cylinder Lockout, Strainer and Split Wiper Assembly



Wash Wand, Cylinder Lockout, Strainer and Split Wiper Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU116192	1	Wiper-Split	3:3	AU8CH21332	1	Fitting-Camlok, 2 Inch (Female)
2	AU114336	1	Cylinder Lockout ASM	4	127-0991	1	Wash Down Wand ASM
3	AU32GB1215	1	2 Inch Strainer Kit				
3:1	AU110378	1	Adapter-Male				
3:2	AU8FL10017	1	Y-Strainer, 2 NPTF (6 Mesh Screen)				

Cylinder Lockout Assembly No. AU114336

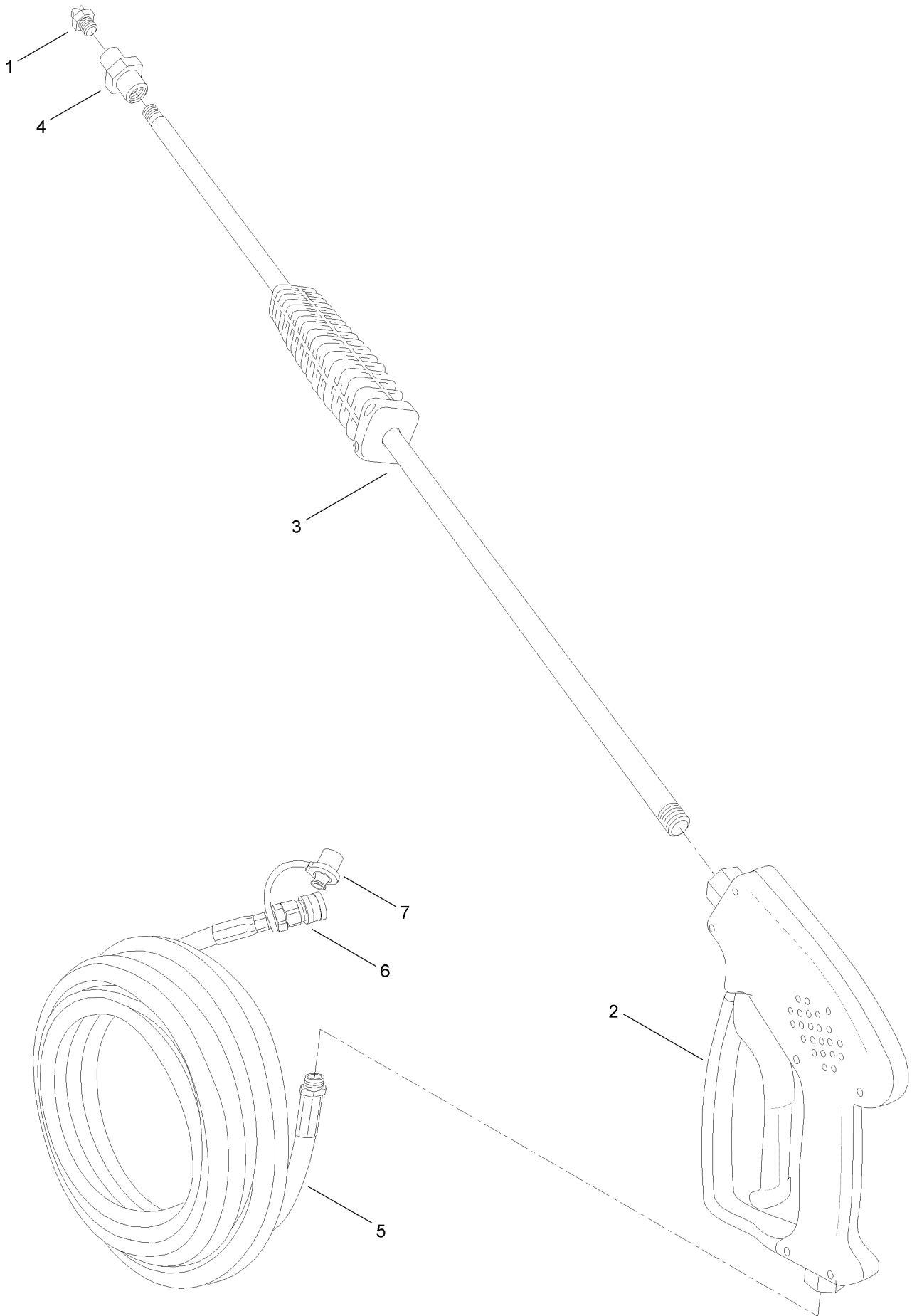


Cylinder Lockout Assembly No. AU114336 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU114332-01	1	Plate-Tilt Cylinder Lockout
2	AU114334	2	Lanyard-Tether, Pin
3	AU109760	2	Pin-Retaining
4	323-53	2	Screw-HH

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	3256-45	2	Washer-Flat
6	1-543678	2	Wingnut
7	3296-39	2	Nut-Lock, NI

Wash Down Wand Assembly No. 127-0991



Wash Down Wand Assembly No. 127-0991 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	AU20MC8512	1	Nozzle-Spray
2	AU40MP8018	1	Gun-Spray
3	AU40MP8019	1	Lance
4	AU8PC40004	1	Coupling-Pipe

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
5	AU126046	1	Hose-HYD
6	AU8QD52204	1	Coupler-Quick Disconnect
7	130-4504	1	Plug-Dust

Attachments and Accessories

For 23899 4050 Directional Drill with Cab

Product Name	Model/Part
Oil (20oz Bottle)	105-8562
Premium All Season Hydraulic Fluid (5 Gallon Pail)	108-1178
Premium All Purpose Grease (Tube)	108-1190
Premium Engine Oil SAE 30 (Drum)	108-1196
Premium Engine Oil SAE 30 (Pail)	108-1197
Premium All Season Gear Lube (Quart)	108-1590
Premium Heavy Duty All Season Gear Lube (Quart)	108-1591
Premium Engine Oil 15w40 (5 Gallon Pail)	121-6395
Oil-15w40 (1 Quart)	127-3244
1LR 2.5in Ramon Box 2.375 FSII Box	127-4300
ID Collar - 4.25in OD, 3in Hex	127-4301
Sonde Housing - 3.5in	127-4302
Rotolock Box - 2.5in Ramon Pin	127-4303
Sonde Block Set, Dual Block	127-4304
RAM 4in Claw Bit	127-4306
RAM 4in Taper Bit	127-4307
RAM 4in Cutter Bit	127-4308
RAM 4in Button Bit	127-4310
RAM 5in Claw Bit	127-4312
RAM 5in Taper Bit	127-4313
RAM 5in Button Bit	127-4316
ID Collar - 4.25in OD, 3in Hex	127-4318
Direct Bore Housing - 2.375in API Box	127-4319
Direct Bore 1 - 4.25in, 2.375in API Pin	127-4322
Direct Bore 1 - 4.25in, 2.375in API Pin	127-4323
RAM 3.5in Claw Bit	127-4330
RAM 3.5in Taper Bit	127-4331
RAM 3.5in Button Bit	127-4334
Clay Reamer - 10in	127-4339
Clay Reamer - 12in	127-4340
Clay Reamer - 16in	127-4341
Fluted Reamer - 8in	127-4342
Fluted Reamer - 10in	127-4343
Fluted Reamer - 12in	127-4344
Fluted Reamer - 14in	127-4345
Wing Reamer - 12in	127-4346
Wing Reamer - 14in	127-4347
Wing Reamer - 16in	127-4348
25 Ton Pulling Eye	127-4349
Front Coupler	127-4350
Pullback Swivel (45,000 Lbs)	127-4351
Water Nozzle - 2 Hole	127-4363
Water Nozzle - 1 Hole	127-4364
Sonde Block Set Subsite 86B/BH	127-4366
Sonde Block Set Subsite (DW 850, BV2)	127-4369
RP for 3.5in and 3.75in Rock Bit - General	127-4374

Attachments and Accessories (continued)

RP for 3.5in and 3.75in Rock Bit - Hard	127-4377
Paddle Bit - 3.5in Sharp Shooter, 3in w/hole	127-4397
Paddle Bit - 4in Sharp Shooter, 3in SAH w/hole	127-4398
Paddle Bit - 4in Sharp Shooter, 3.5in SH w/hole	127-4399
Paddle Bit - 5in Sharp Shooter 3.5in w/hole	127-4400
Paddle Bit - 3.5in Iron Claw, 3in SH w/hole	127-4401
Paddle Bit - 4in Iron Claw, 3in SH w/hole	127-4402
Paddle Bit - 4in Iron Claw 3.5in SH w/hole	127-4403
Paddle Bit - 3.5in Button Bit, 3in SH w/hole	127-4406
Paddle Bit - 4in Button Bit, 3in SH w/hole	127-4407
Paddle Bit - 4in Button Bit, 3.5in SH w/hole	127-4408
Paddle Bit - 5in Button Bit, 3.5in SH w/hole	127-4409
RP 1555/1554 EXTream Teeth w/Round Point.....	127-4413
Sonde Housing - 3.5in Endurance	127-4416
Sonde Housing - 3.5in Rotolock.....	127-4421
Rock Bit 3.5in Standard	127-4422
Rock Bit - 3.75in Aggressive	127-4423
Cable Transmitter Removal Tool.....	127-4625
Cable/SST Transmitters Wire Kit	127-4626
F Series Lithium-Ion Battery Pack.....	127-4627
F Series Receiver Case	127-4628
F Series System Case	127-4629
13in Antenna	127-4630
F Series Lithium-Ion Battery Charger.....	127-4631
F Series U.S. Battery Charger Cord Kit.....	127-4632
Battery Charger Cord Kit - F Series U.K.....	127-4633
Battery Charger Cord Kit - F Series I.N.	127-4634
Battery Charger Cord Kit - F Series A.U.....	127-4635
Battery Charger Cord Kit - F Series CHI.....	127-4636
LWD Flashdrive Assembly	127-4637
LWD Bluetooth.....	127-4638
MFD/FSD Whip Antenna	127-4639
Whip Antenna - Russia	127-4640
Tensitrak Carry Case	127-4641
MFD/FSD DC Cable Assembly.....	127-4642
Steering Tool Carry Case.....	127-4643
Cable Transmitter Box w/Cable - MFD/FSD.....	127-4644
LWD Flashdrive and USB Bluetooth Adaptor	127-4645
LWD Flashdrive Assembly - SST/TT	127-4646
Spot Extended Range Probe	127-4647
Supercell Lithium Battery	127-4648
DDS12 F Series/SE/Eclipse/LT 12 KHZ.....	127-4649
DDT12 F Series/SE/Eclipse/LT 12 KHZ	127-4650
DEC TRAK - 0.375in End Cap	127-4651
DUC TRAK - 0.3125in End Cap	127-4652
DUC TRAK 12mm Metric End Cap	127-4653
DUC TRAK Pulling Eye End Cap	127-4654
HDT Transmitter End Cap	127-4655
C Cell Transmitter Contact Spring.....	127-4656

Attachments and Accessories (continued)

Standard Transmitter Battery End Cap	127-4657
Double D-Link 26mm, 48k x 4x D-Ring TT5	127-4658
D Cell Adapter x3 to Supercell for TT	127-4659
Battery Pack 3x D-Cell for TT5	127-4660
NIMH S Series Battery Charger U.S. Cord K	127-4661
DIGITRAK NiCad Battery Pack.....	127-4662
NIMH S Series Nickel Battery Pack	127-4663
DB 5in Steep Taper Roughneck - 3.5in SH	130-3009
DB 5in Sharp Shooter - 4.125in SH w/hole	130-3011
DB 5in Iron Claw - 4.125in SH w/hole	130-3015
DB 5in Button Bit - 4.125in SH w/hole	130-3017
DB 6in Sharp Shooter - 4.125in SH w/hole	130-3019
DB 6in Iron Claw - 4.125in SH w/hole	130-3023
DB 6in Button Bit - 4.125in SH w/hole	130-3025
SB (Set) 1860/1850 Radiodetect	130-3120
SB (Set) 1860/1850 McLaughlin	130-3121
O-Ring 0.75x0.125, 2.75in and 3in Rock Bits.....	130-3150
SHCS 0.375-16x0.25in Pellet Water Nozzle	130-3164
SHCS 0.375-16x0.75 Pellet Housing Door	130-3165
SHCS 0.50-13x1.25in Pellet 3.5in Bit1 DBK	130-3169
RAM 3.5in Claw Bit 5 Bolt DW	130-3355
RAM 3.5in Taper Bit 5 Bolt DW	130-3356
RAM 3.5in Chisel Bit 5 Bolt DW	130-3357
RAM 3.5in Button Bit 5 Bolt DW	130-3358
RAM 3.5in Steep Taper Roughneck 5 Bolt DW	130-3359
RAM 4in Steep Taper Roughneck 5 Bolt DW	130-3360
RAM 4in Claw Bit 5 Bolt DW SH	130-3361
RAM 4in Taper Bit 5 Bolt DW SH	130-3362
RAM 4in Button Bit 5 Bolt DW SH	130-3363
RAM 5in Steep Taper Roughneck 5 Bolt DW	130-3367
RAM 4in Claw Bit 6 Bolt DW SH	130-3369
RAM 4in Taper Bit 6 Bolt DW SH	130-3370
RAM 4in Chisel Bit 6 Bolt DW	130-3371
RAM 4in Button Bit 6 Bolt DW	130-3372
RAM 5in Steep Taper Roughneck 6 Bolt DW	130-3375
RAM 5in Taper Bit 6 Bolt DW	130-3377
RAM 5in Button Bit 6 Bolt DW SH	130-3378
RAM 6in Steep Taper Roughneck 6 Bolt DW 20mm.....	130-3384
RAM 3.5in HF Chisel Bit 7 Bolt	130-3386
Ram 5in Steep Taper Roughneck 7 Bolt	130-3389
ZapAlert Ground Stake Relocation Kit	131-9019
Cab Hardware Improvement Kit.....	132-4164
Cam Sensor Improvements Kit.....	132-4165
Stake Down Guards.....	23807
Stake Down Guards.....	23807E
Short Rod Box	23809
Short Rod Box	23809E
Dirt Stakes	23814
Dirt Stakes	23814E

Attachments and Accessories (continued)

Rock Stakes	23815
Rock Stakes	23815E
Rock Stakes	23827
Rock Stakes	23827E
Dirt Stakes	23829
Dirt Stakes	23829E
Tall Rod Box	23830
Tall Pipe Box	23830E
Drill Pipe	23831
52-Count Drill Pipe	23831E
Air Hammer Adapter Kit	23832
Air Hammer Adapter Kit	23832E
DCI F2 Falcon W Aurora and 15in Transmitter	23905
DCI F2 Falcon 15in Transmitter	23906
DCI F2 Falcon 2 CRD and F2 Tranmitter	23907
Summer Oil-Case of 24 (20oz Bottles)	38916

Notes:

Notes:



Count on it.