



Form No. 3374-325 Rev B

Count on it.

Parts Catalog

Groundsmaster® 4500-D Traction Unit

Model No. 30857N—Serial No. 313000001 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.

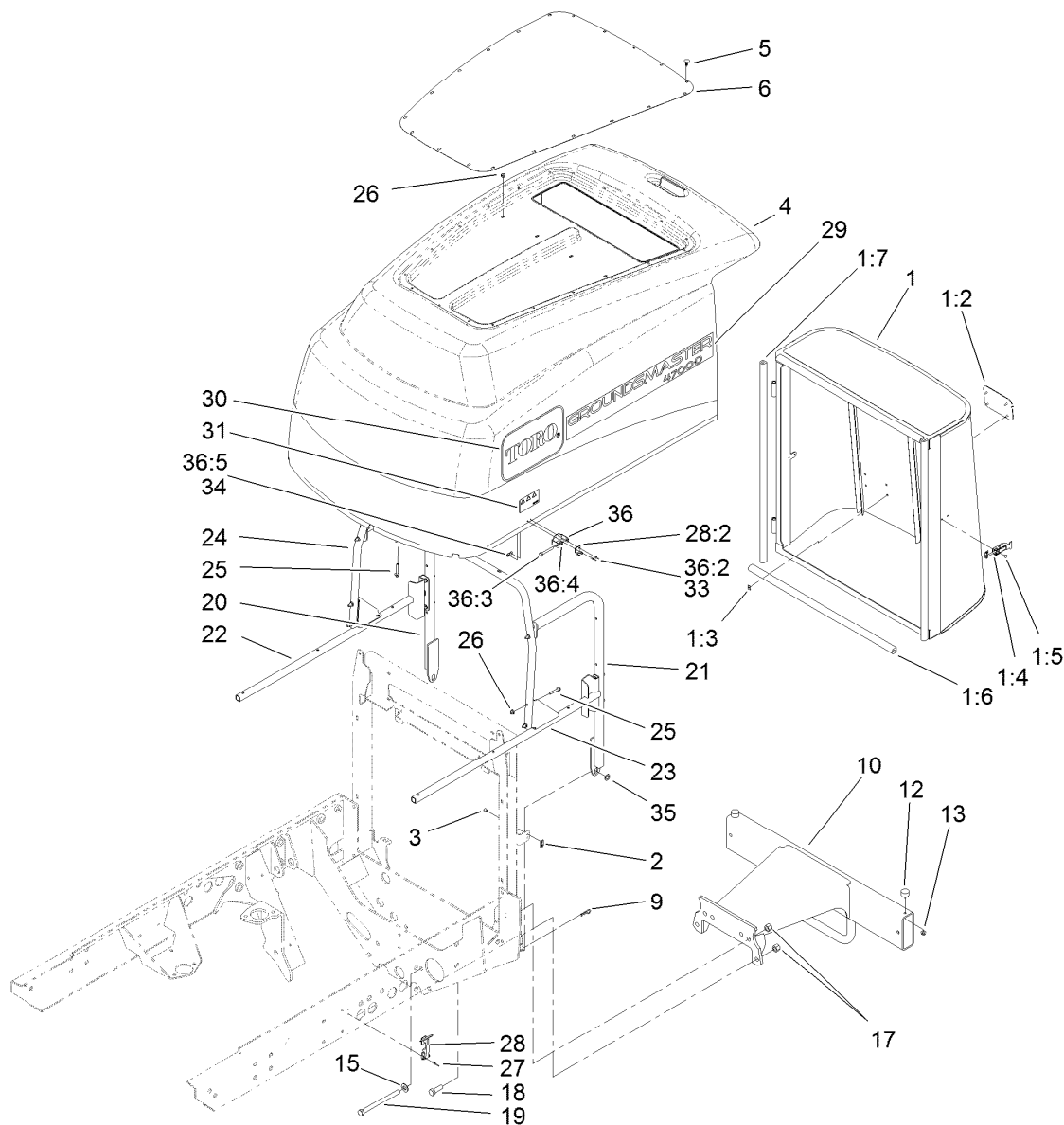
For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

Contents

Hood, Screen and Bumper Assembly	5
Steering Tower and Brake Pedal Assembly	6
Steering Tilt Column Assembly No. 106-3622	8
Steering Valve Assembly No. 114-8119	9
Traction Pedal Assembly	10
Seat and Frame Assembly	11
Air Ride Seat Suspension Assembly No. 108-1488	12
Vinyl Premium Seat Assembly No. 117-5676	14
Control Console Assembly	15
Hydraulic Filter and Reservoir Assembly	16
Fuel Tank and Filter Assembly	17
Front Drive and Brake Assembly	18
Planetary Assembly No. 105-4500-03	19
Brake Assembly No. 100-3070-03	20
Piston Motor Assembly No. 105-1218	21
Brake Assembly No. 100-3069-03	22
Fan Plumbing Assembly	23
Hydraulic Pump Assembly	24
Piston Pump Assembly No. 114-4188	25
Control Assembly No. 115-4446	27
Four Section Pump Assembly No. 114-4189	28
Radiator Assembly	29
Fan and Motor Assembly	31
Hydraulic Motor Assembly No. 117-4769	32
Engine Installation Assembly	33
Rear Axle Assembly	34
Bevel Pinion Shaft Assembly Rear Axle Assembly No. 110-4750	36
Differential Assembly Rear Axle Assembly No. 110-4750	37
Axle Support Assembly Rear Axle Assembly No. 110-4750	38
Bevel Gear Case Assembly Rear Axle Assembly No. 110-4750	39
Bevel Gear Shaft Assembly Rear Axle Assembly No. 110-4750	40
Axle Case Assembly Rear Axle Assembly No. 110-4750	41
Axle Assembly Rear Axle Assembly No. 110-4750	42
Hydraulic Cylinder Assembly No. 107-1976	43
Piston Motor Assembly No. 105-1219	44
Flywheel Coupler Assembly	45
Power Center, Battery and Storage Box Assembly	46
Battery Storage Box Assembly No. 115-9100	47
Storage Box Assembly No. 115-9101	48
Front Lift Arm Assembly	49
Hydraulic Cylinder Assembly No. 107-1979	51
Hydraulic Cylinder Assembly No. 107-1980	52
Air Cleaner and Manifold Assembly	53
Manifold Assembly No. 117-2395	54
Air Cleaner Assembly No. 99-5410	55
No. 2 and 3 Lift Arm Assembly	56
Hydraulic Cylinder Assembly No. 107-1978	57
No. 2 and 3 Hose Installation Assembly	58
No. 1, 4 and 5 Hose Installation Assembly	59
Gear Motor Assembly No. 117-5141	60
Roll-Over Protection System and Front Frame Assembly	61
Front Frame Assembly No. 115-4392	62
Front Shroud and Work Lights	63
Manifold and Filter Assembly	64

Contents (continued)

Mow Manifold Assembly No. 117-2392	65
Lift Manifold Assembly No. 117-2388	66
4-Wheel Drive Manifold and Filter Assembly	67
Filter Manifold Assembly No. 117-2391	68
Filter Manifold Assembly	69
Drive Manifold Assembly No. 119-8625	70
4-Wheel Drive Manifold Assembly	71
Junction Manifold Assembly No. 117-2394	72
Junction Manifold Assembly	73
Traction Hydraulic Lines Assembly	74
Hydraulic Steering Assembly	76
Mow Hydraulic Assembly	77
Lift Hydraulic Assembly	79
Roller and Carrier Frame Assembly	80
Roller Assembly No. 112-5265	81
Height-of-Cut Bracket Assembly	82
Chamber, Blade and Spindle Assembly	83
Spindle Assembly No. 115-3435	84
Crankcase Assembly	85
Oil Pan Assembly	86
Cylinder Head Assembly	87
Gear Case Assembly	88
Cylinder Head Cover Assembly	89
Oil Filter Assembly	90
Dipstick and Guide Assembly	91
Oil Pump Assembly	92
Main Bearing Case Assembly	93
Cam Shaft and Idle Gear Assembly	94
Piston and Crankshaft Assembly	95
Flywheel Assembly	96
Fuel Camshaft and Governor Shaft Assembly	97
Idle Apparatus and Stop Solenoid Assembly	98
Injection Pump Assembly	99
Governor Assembly	100
Speed Control Plate Assembly	101
Nozzle Holder and Glow Plug Assembly	102
Alternator and Pulley Assembly	103
Alternator Component Part Assembly	104
Starter Assembly	105
Starter Components Assembly	106
Water Flange and Thermostat Assembly	107
Water Pump Assembly	108
Valve and Rocker Arm Assembly	109
Inlet and Exhaust Manifold Assembly	110
Turbo Charger Assembly	111
Oil Pipe (Turbo Charger) Assembly	112
Oil Cooler Assembly	113
Muffler Gasket, Glow Controller and Operator Manual	114
Upper Gasket Kit	115
Lower Gasket Kit	116
Attachments and Accessories	117



Hood, Screen and Bumper Assembly

Ref.	Part Number	Qty.	Description
1	115-4362	1	Screen ASM
1:2	93-6028	1	Plate-Logo
1:3	94-2638	4	Nut-Flat
1:4	114-8117	1	Latch-Adjustable
1:5	3269-3	2	Rivet-Pop
1:6	115-4358	2	Seal-Bulb
1:7	115-4359	2	Seal-Bulb
2	115-4357	1	Latch-Keeper
3	3269-3	2	Rivet-Pop
4	117-4770	1	Hood ASM
5	117-2382	20	Plug-Plastic
6	114-4192-03	1	Screen-Hood
9	3290-467	2	Pin-Hair
10	105-9221-03	1	Bumper-Rear
12	240-14	2	Bumper-Rubber
13	32128-33	2	Nut-HF
15	3256-26	2	Washer-Flat
17	3296-23	4	Nut-Lock, NI
18	325-6	2	Screw-HH
19	325-33	2	Screw-HH
20	114-8108-03	1	Tube-RH

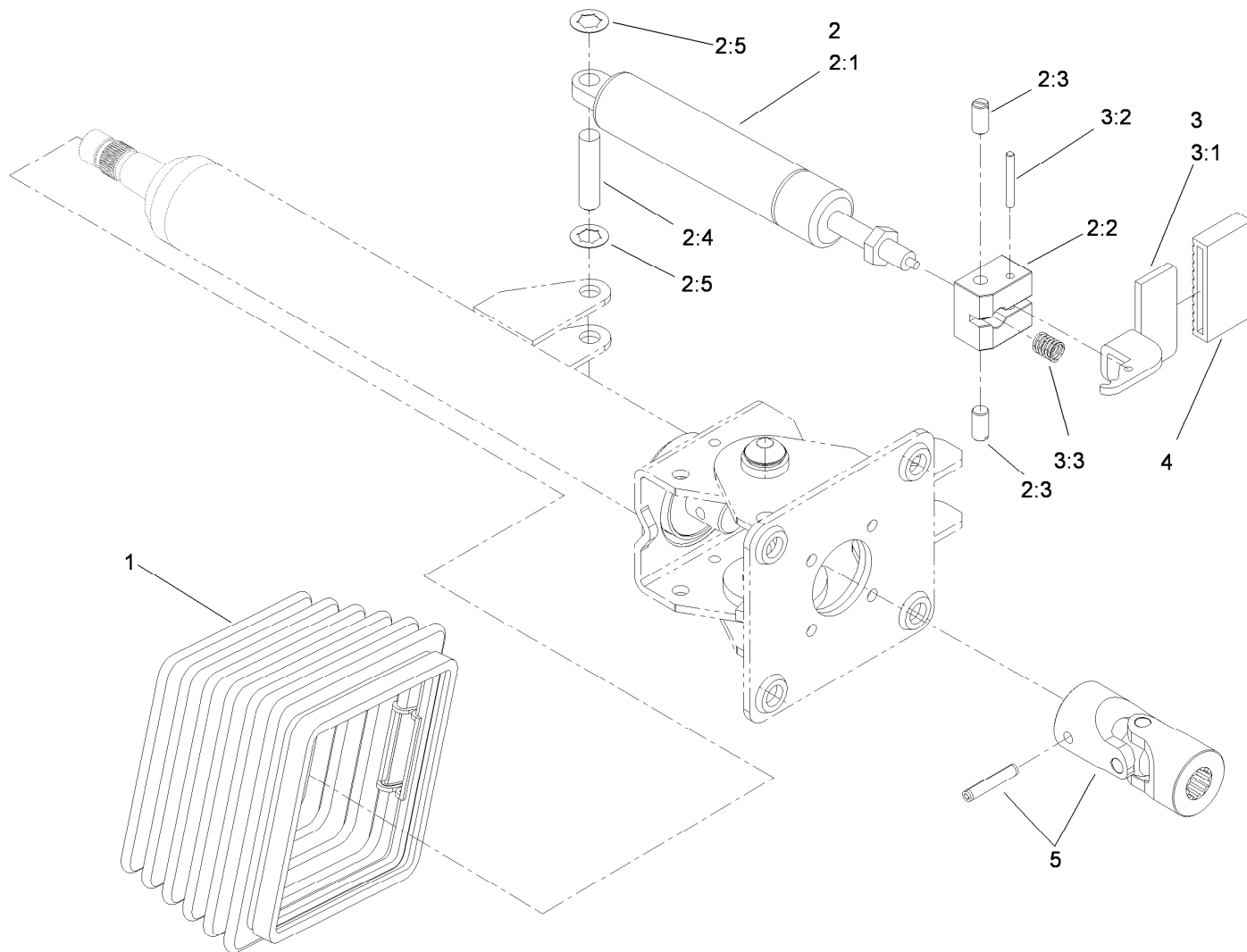
Ref.	Part Number	Qty.	Description
21	114-8109-03	1	Tube-LH
22	117-2358-03	1	Tube-Hood, RH
23	114-8102-03	1	Tube
24	115-9118-03	1	Tube-Frame, Hood
25	94-5781	26	Screw-HHF
26	104-7201	26	Nut-HF
27	3290-55	4	Rivet-Pop
28	59-9740	2	Flex Draw Latch ASM
28:2	249-40	1	Keeper
29	105-9877	2	Decal
30	66-1210	2	Decal
31	106-6754	2	Decal-Danger
33	3269-17	4	Rivet-Pop
34	3269-10	4	Washer-Back
35	98-1629	2	Washer
36	119-2004	1	CE Latch Kit
36:2	107-0333	2	Rivet-Pop
36:3	322-10	1	Screw-HH
36:4	3296-47	1	Nut-Lock, NI
36:5	3269-10	2	Washer-Back



Ref.	Part Number	Qty.	Description
18:3	302-5	1	Fitting-Grease
19	115-4421-03	1	Pedal-Brake, LH
20	32121-16	1	Pin-Spring
21	283-58	2	Pin-Clevis
22	92-7530	1	Cable-Brake, LH
23	92-7529	1	Cable-Brake, RH
24	63-7880	1	Pin-Latch, Brake
25	32121-50	1	Pin-Spring
26	3272-10	2	Pin-Cotter
27	3290-378	1	Tie-Cable
28	99-7963-03	1	Pedal-Park
29	3234-13	2	Screw-HHF
30	99-7140	1	Spring-Torsion
31	115-4417	1	Rod-Brake Pawl
32	119-0002	1	Pawl-Brake
33	120-1691	1	Detent-Brake
34	323-12	1	Screw-HH
35	3296-2	1	Nut-Lock, NI
36	3229-34	1	Screw-CARR
37	100-1270	1	Switch-Proximity
38	100-4872	1	Plate-Switch, Neutral



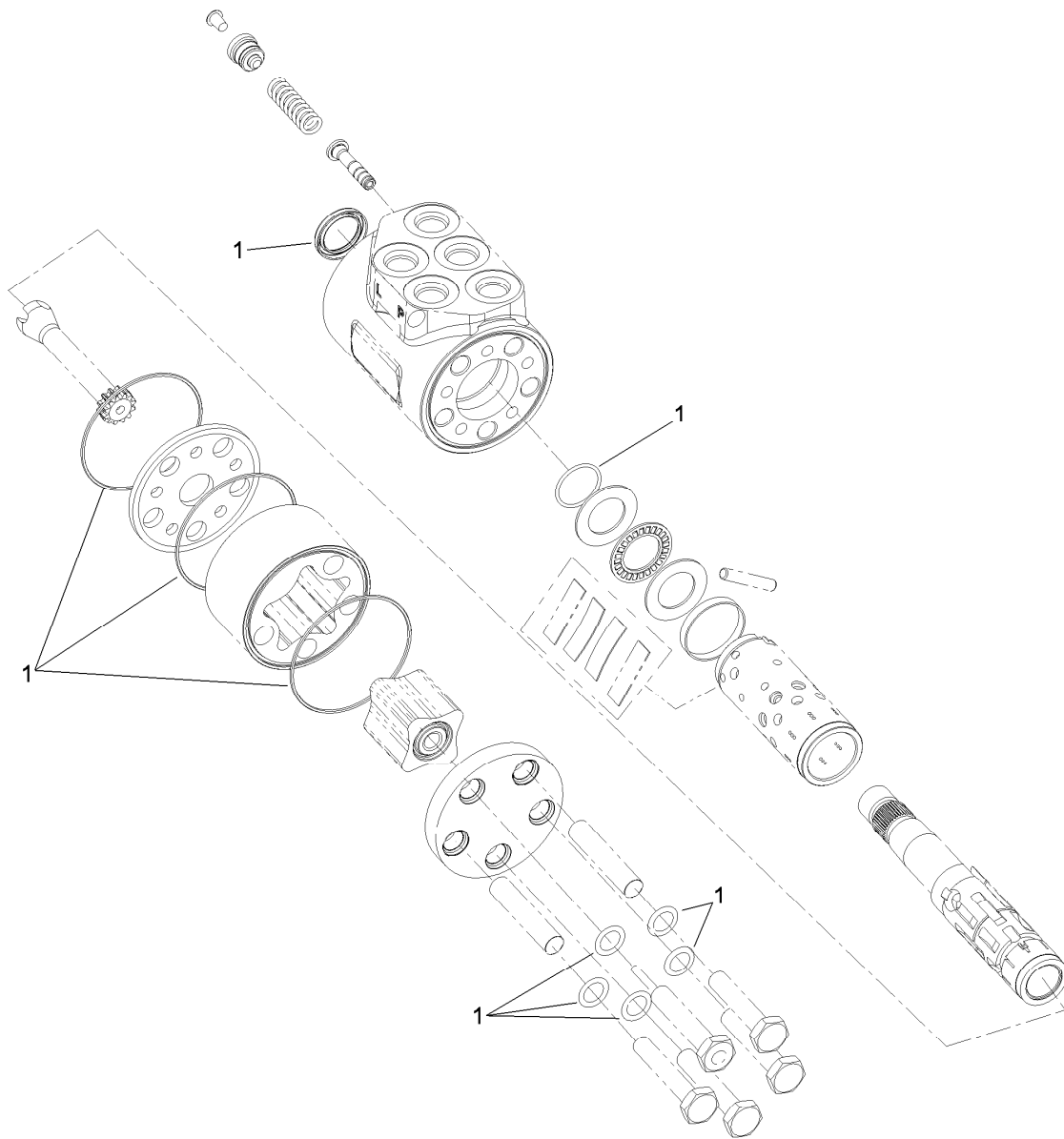
Ref.	Part Number	Qty.	Description
43	256-236	2	Bearing-Mount, Flange
44	32128-20	10	Nut-HF
45	3272-5	3	Pin-Cotter
46	117-4763	1	Decal-Brake



Steering Tilt Column Assembly No. 106-3622

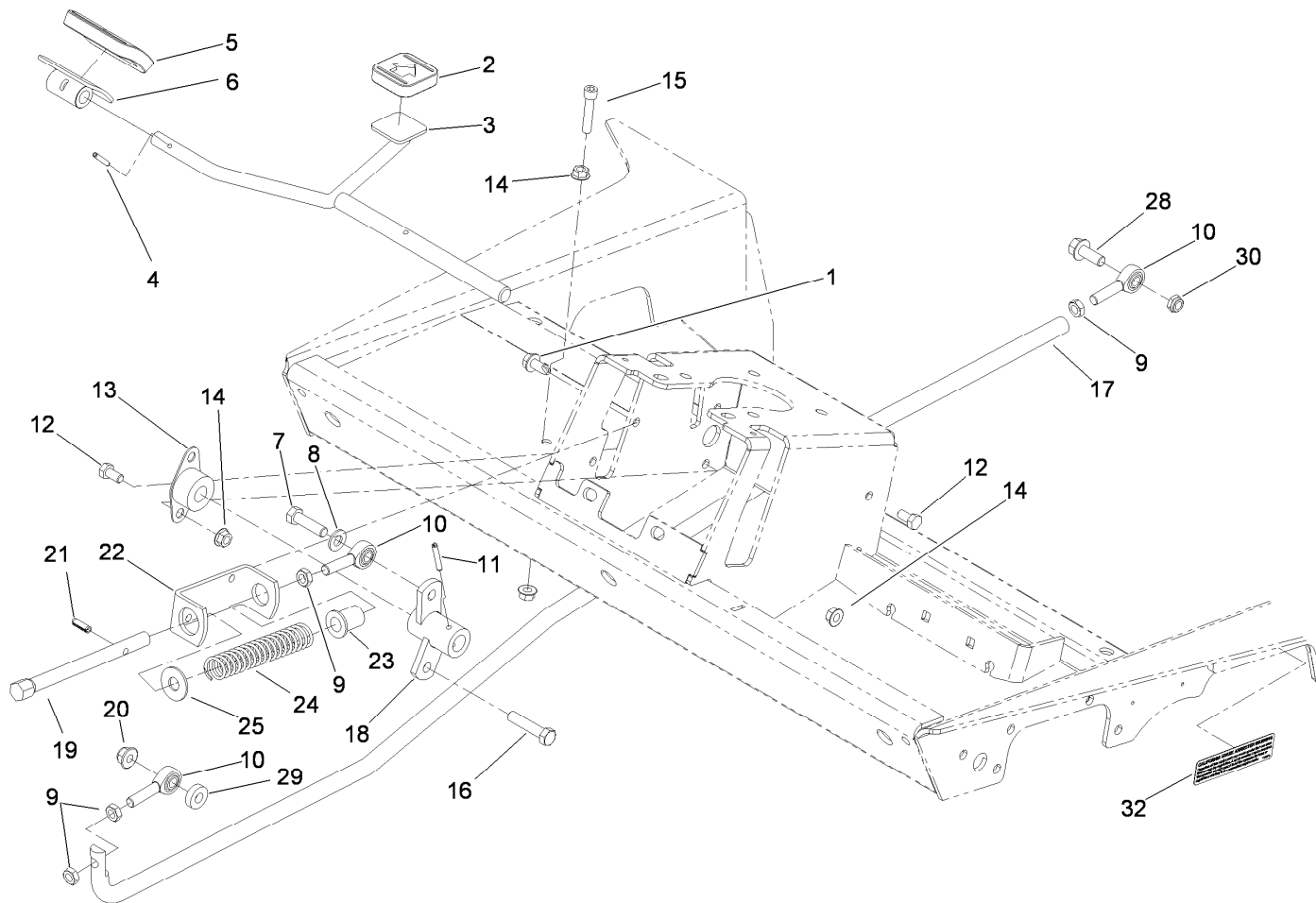
Ref.	Part Number	Qty.	Description
1	110-6462	1	Bellows-Rubber
2	110-6463	1	Cylinder Service Kit
2:1		1	Cylinder-Gas ●
2:2		1	Block-Pedal ●
2:3		2	Bolt ●
2:4		1	Pin ●
2:5		2	Washer-Lock ●
3	110-6464	1	Pedal Service Kit
3:1		1	Pedal ●
3:2		1	Pin ●
3:3		1	Spring ●
4	110-6465	1	Cover-Pedal
5	120-6256	1	Universal Joint Kit

● Not serviced separately



Steering Valve Assembly No. 114-8119

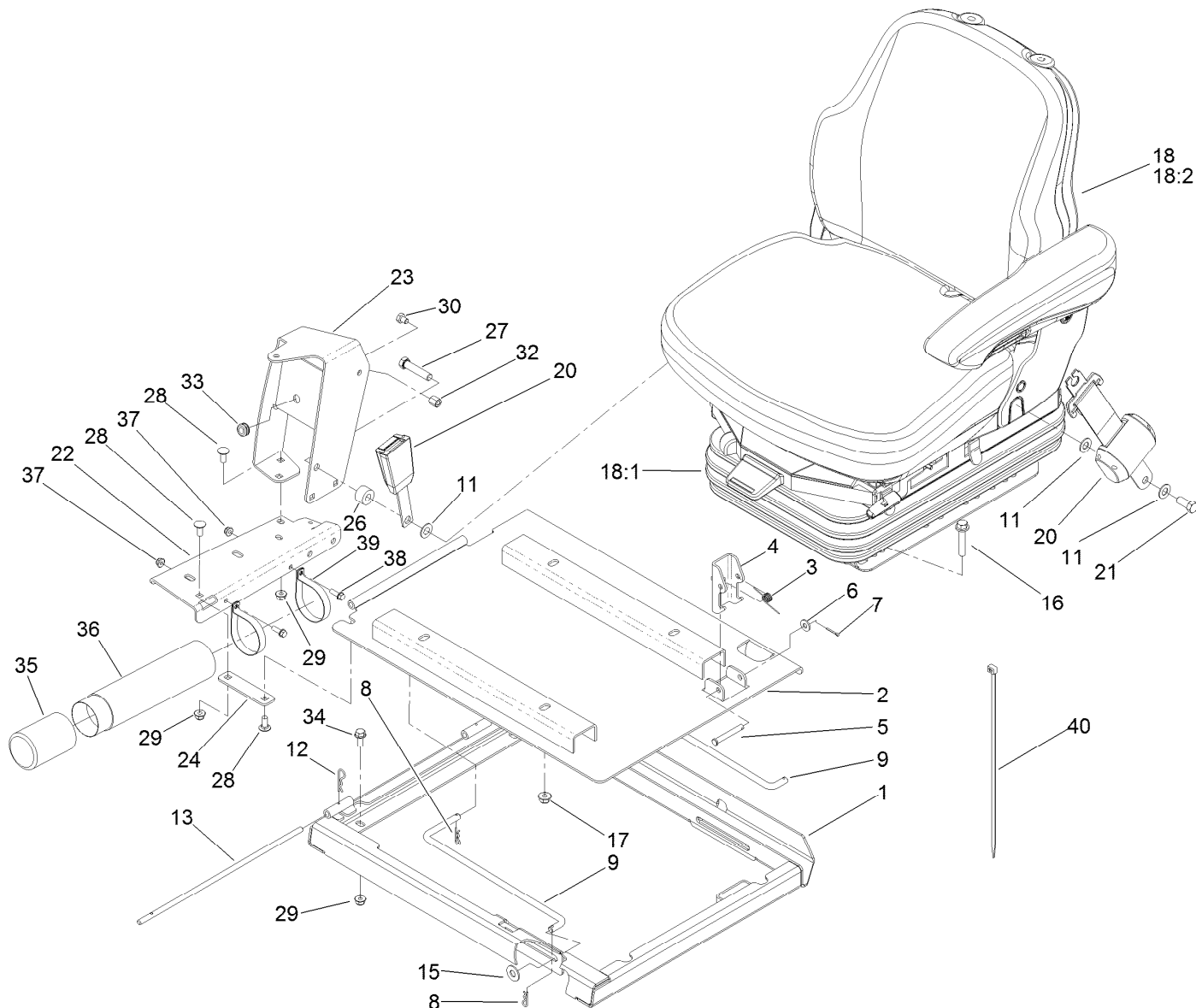
Ref.	Part Number	Qty.	Description
1	106-6716	1	Seal Kit



Traction Pedal Assembly

Ref.	Part Number	Qty.	Description
1	32104-32	2	Screw-HWH
2	74-9110	1	Pad-Pedal, Reverse
3	75-2970	1	Pedal-Traction
4	32121-45	1	Pin-Spring
5	74-9100	1	Pad-Pedal, Forward
6	117-9507	1	Pedal-Accelerator
7	323-29	1	Screw-HH
8	3256-24	1	Washer-Flat
9	3220-3	4	Nut-HJ
10	2411-36	3	Bearing-End, Rod
11	32121-6	1	Pin-Roll, Slotted
12	322-2	4	Screw-HH
13	256-236	2	Bearing-Mount, Flange
14	32128-20	6	Nut-HF
15	3274-83	1	Screw-HSH

Ref.	Part Number	Qty.	Description
16	323-8	1	Screw-HH
17	117-4794-03	1	Rod-Traction
18	115-4380-03	1	Hub-Pivot, Traction
19	115-4383	1	Shaft-Spring
20	104-8301	2	Nut-HF, NI
21	32121-11	1	Pin-Roll
22	92-7608-03	1	Bracket-Spring
23	92-7610	1	Retainer-Spring
24	84-9100	1	Spring
25	3256-5	1	Washer-Flat
28	3234-11	1	Screw-HHF
29	5-0652	1	Spacer
30	3296-59	1	Nut-Lock, NI
32	117-2718	1	Decal-Arrester, Spark



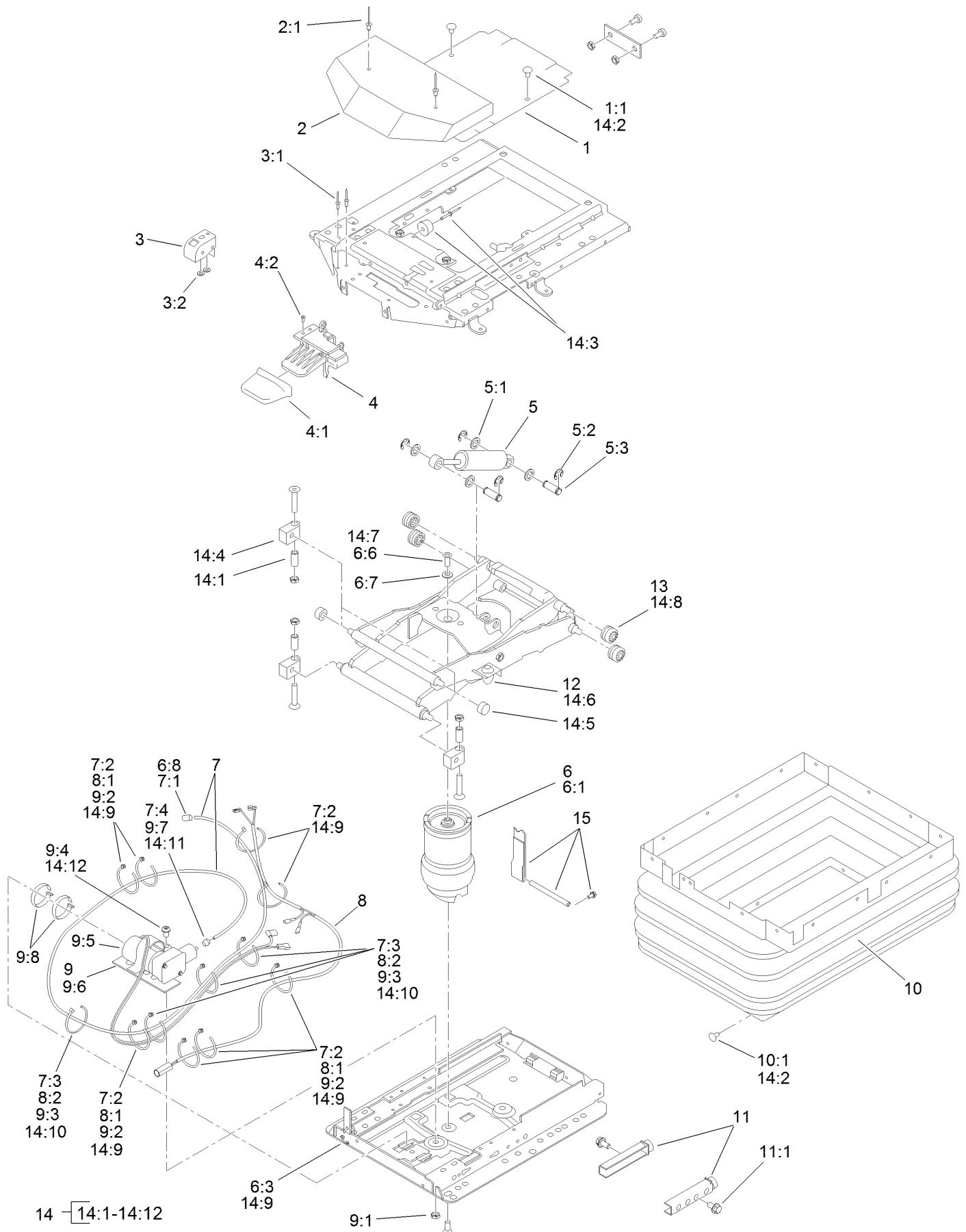
Seat and Frame Assembly

Ref.	Part Number	Qty.	Description
1	115-4400-03	1	Frame-Seat
2	115-4411-03	1	Plate-Seat
3	104-4821	1	Spring-Torsion
4	115-4423-03	1	Latch-Seat Plate
5	110-0618	1	Pin-Clevis
6	3256-2	1	Washer-Flat
7	3272-6	1	Pin-Cotter
8	3290-307	4	Pin-Cotter
9	117-4797-03	2	Rod-Seat Frame
11	3256-25	3	Washer-Flat
12	3290-467	1	Pin-Hair
13	75-3400	1	Shaft-Pivot, Seat
15	3256-4	2	Washer-Flat
16	66-9302	4	Screw-HHF, Whiz
17	104-8301	4	Nut-HF, NI
18		1	Seat And Suspension ASM
18:1	108-1488	1	Seat Suspension ASM
18:2	117-5676	1	Premium Seat ASM

Ref.	Part Number	Qty.	Description
20	110-0413	1	Seatbelt-Retractable
21	3212-4	1	Screw-HH
22	119-0000-03	1	Channel-Support
23	117-4798-03	1	Arm-Support
24	112-7449-03	1	Bracket-Support
26	17-7190	1	Spacer-Finger
27	3212-8	1	Screw-HH
28	3230-23	6	Screw-CARR
29	104-8300	10	Nut-HF, NI
30	108-8646	1	Screw-HH, Lock
32	112-7405	1	Nut-Hex, Coupling
33	237-136	1	Grommet
34	3234-47	4	Screw-HHF
35	104-7048	1	Cap-Housing
36	104-7050	1	Tube-Manual
37	104-7201	2	Nut-HF
38	32105-15	2	Screw-HWH
39	107-1865	2	R-Clamp
40	3334-945	1	Tie-Cable

● Not serviced separately

Air Ride Seat Suspension Assembly No. 108-1488

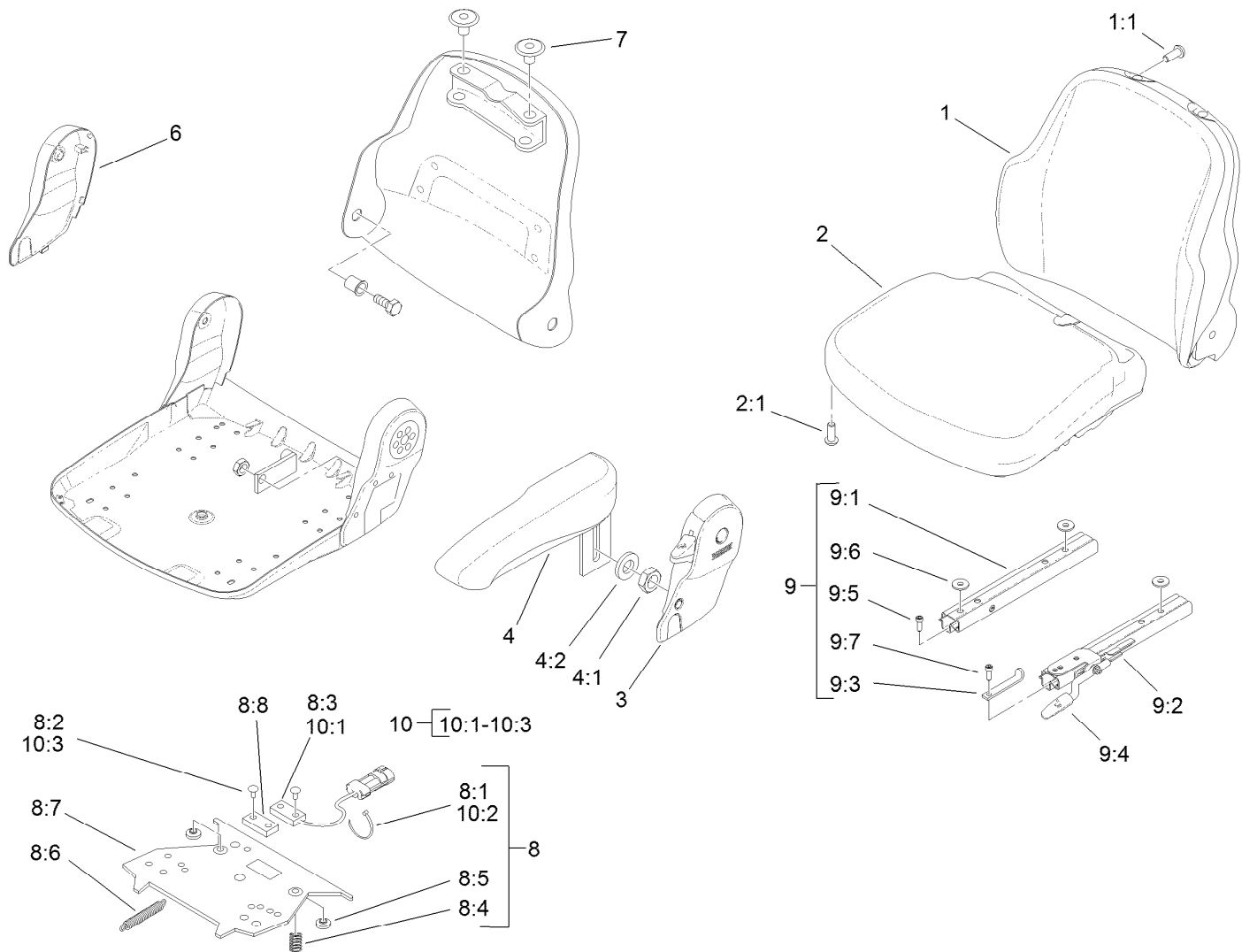


Air Ride Seat Suspension Assembly No. 108-1488 (continued)

<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	108-8026	1	Cover ASM	9:1		1	Nut ■
1:1	39-5710	2	Plug-Plastic	9:2		5	Tie-Wire ■
2	108-8027	1	Cover	9:3		4	Tie-Wire ■
2:1		2	Rivet ■	9:4		1	Screw ■
3	108-8028	1	Level Indicator Kit	9:5		1	Compressor ■
3:1		2	Rivet ■	9:6		1	Plate-Mounting ■
3:2		2	Washer ■	9:7		1	Nipple-Hose ■
4	108-8029	1	Valve-Control, Air	9:8		2	Clamp ■
4:1		1	Handle ■	10	108-8035	1	Bellows ASM
4:2		3	Screw ■	10:1	39-5710	23	Plug-Plastic
5	108-8030	1	Shock Absorber Kit	11	108-8036	1	Stop Kit
5:1		4	Washer ■	11:1		2	Screw ■
5:2		4	C-Clip ■	12	107-1213	2	Bumper Set
5:3		2	Pin ■	13	108-8037	4	Roller
6	108-8031	1	Air Spring Kit	14	108-8038	1	Wear Parts Kit ●
6:1		1	Air Spring ■	14:1		4	Spacer ■
6:3		2	Cable Tie ■	14:2	39-5710	2	Plug-Plastic
6:6		2	Screw ■	14:3		1	Bumper ■
6:7		1	Washer ■	14:4		4	Support-Housing ■
6:8		1	Nipple-Hose ■	14:5		2	Roller ■
7	108-8032	1	Air Tube ASM	14:6	107-1213	2	Bumper Set
7:1		1	Nipple-Hose ■	14:7		2	Screw ■
7:2		7	Tie-Wire ■	14:8	108-8037	4	Roller
7:3		4	Tie-Wire ■	14:9		9	Tie-Wire ■
7:4		1	Nipple-Hose ■	14:10		4	Tie-Wire ■
8	108-8033	1	Connecting Cable ASM	14:11		1	Nipple-Hose ■
8:1		8	Tie-Wire ■	14:12		1	Screw ■
8:2		4	Tie-Wire ■	15	119-2161	1	Tether Kit
9	108-8034	1	Compressor Kit				

● Not illustrated

■ Not serviced separately

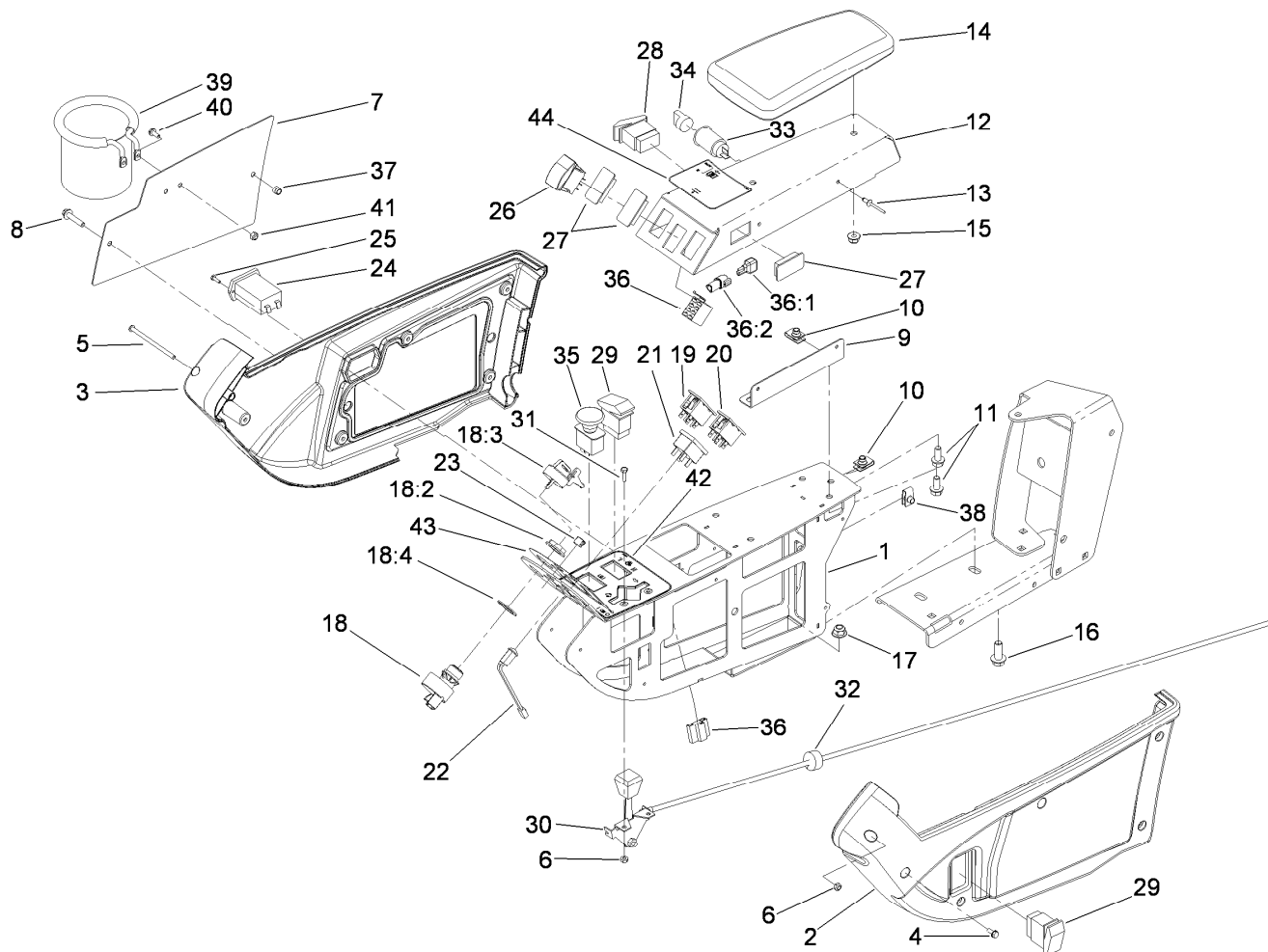


Vinyl Premium Seat Assembly No. 117-5676

Ref.	Part Number	Qty.	Description
1	108-8016	1	Backrest Cushion ASM
1:1	119-7742	4	Screw-Cushion
2	108-8017	1	Seat Cushion ASM
2:1	119-7742	3	Screw-Cushion
3	108-8018	1	Cover-Armrest
4	108-8019	1	LH Armrest ASM
4:1	82-9650	1	Nut
4:2	107-1198	1	Washer
6	108-8021	1	Cover-Armrest
7	108-8022	2	Cover-Black
8	108-8024	1	Switch Kit
8:1		3	Wire Tie ●
8:2		4	Rivet ●
8:3		1	Sensor-Seat Switch ●
8:4		2	Spring-Compression ●
8:5		2	Bumper-Pressure Plate ●

Ref.	Part Number	Qty.	Description
8:6		1	Spring-Extension ●
8:7		1	Plate-Mounting ●
8:8		1	Magnet ●
9	108-8025	1	Adjustment Rail Set
9:1		1	Rail-Adjustment, RH ●
9:2		1	Rail-Adjustment, LH ●
9:3		1	Stop-Rail ●
9:4		1	Handle ●
9:5		3	Screw ●
9:6		3	Washer ●
9:7		1	Screw ●
10	110-6189	1	Switch Kit
10:1		1	Switch ●
10:2		3	Wire Tie ●
10:3		2	Rivet ●

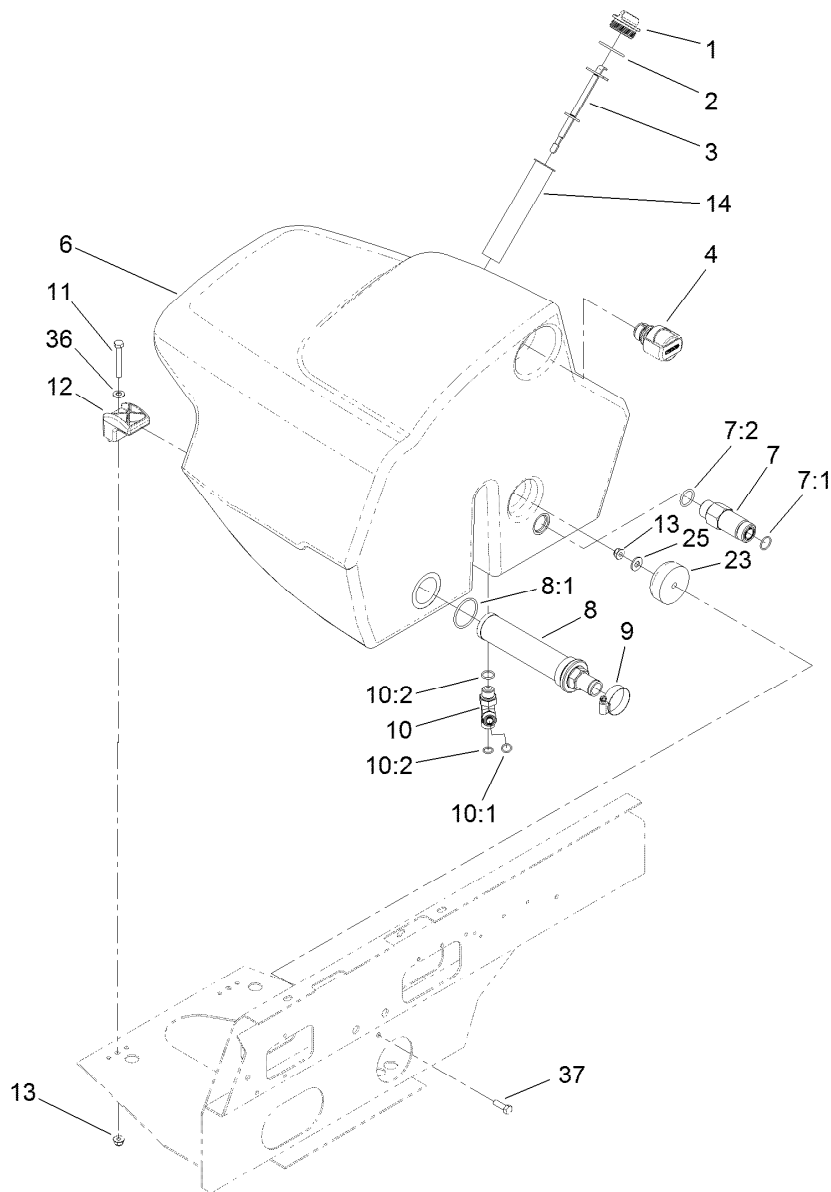
● Not serviced separately



Control Console Assembly

Ref.	Part Number	Qty.	Description
1	115-4430-03	1	Frame-Arm, Control
2	108-7604	1	Cover-LH
3	108-7605	1	Cover-RH
4	32144-112	10	Screw-HWH
5	3250-22	1	Screw-PPH
6	3296-12	3	Nut-Lock, NI
7	115-8849-03	1	Plate-Cover
8	3234-21	2	Screw-HHF
9	112-7404	1	Angle-Mounting
10	94-2413	5	Nut-U
11	3234-5	5	Screw-HHF
12	117-2380-03	1	Panel-Switches, Control Arm
13	3290-409	2	Rivet
14	108-7602	1	Rest-Arm
15	104-8300	2	Nut-HF, NI
16	3234-42	2	Screw-HHF
17	104-8301	2	Nut-HF, NI
18	106-5269	1	Ignition Switch ASM
18:2	108-8660	1	Nut-Mounting
18:3	106-5270	1	Ignition Key Set
18:4	108-8659	1	Washer-Backup
19	100-8070	1	Lamp-Warning
20	100-8071	1	Lamp-Warning
21	110-0941	1	Gauge-Temperature
22	95-7652	1	Light-Indicator

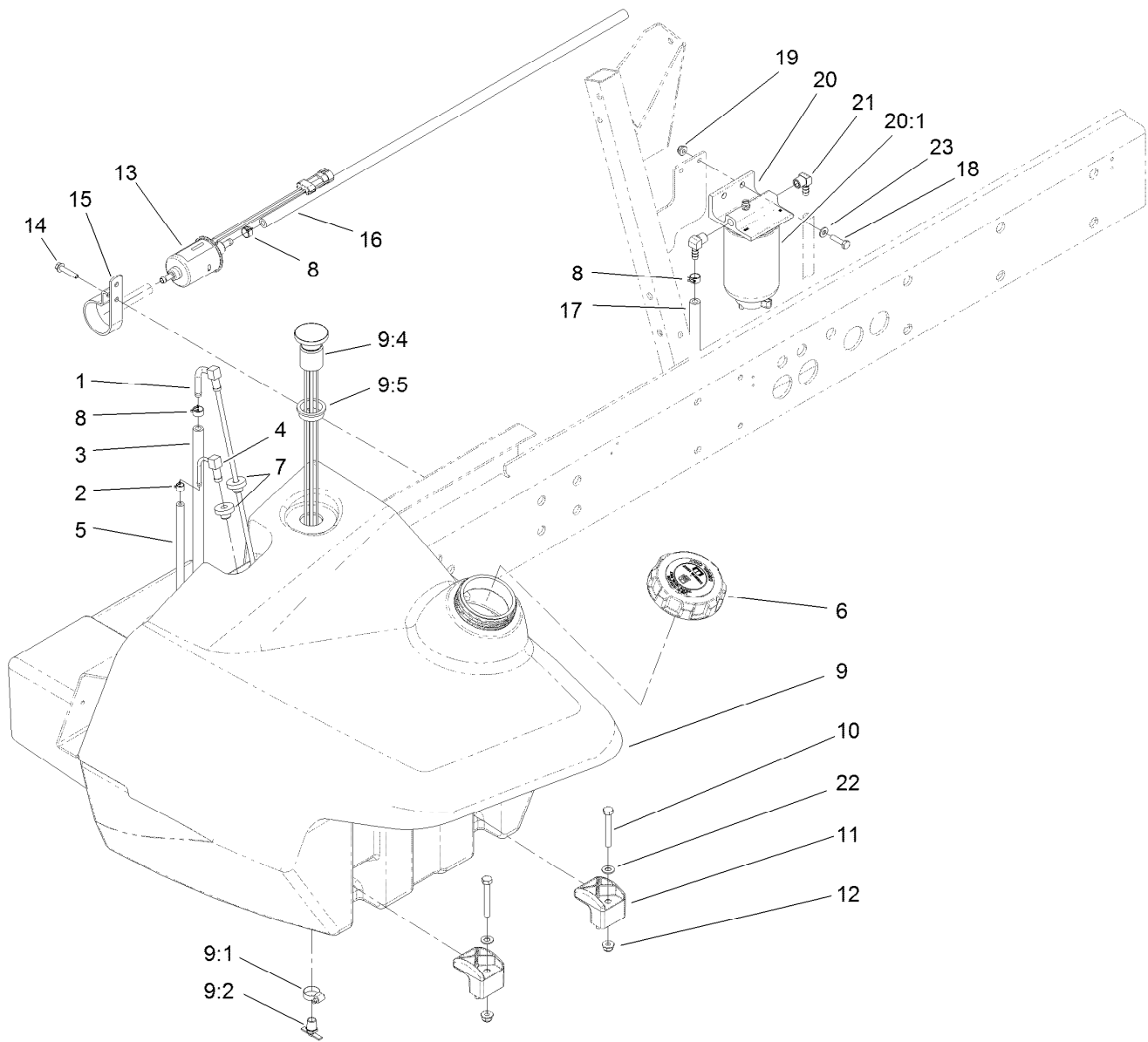
Ref.	Part Number	Qty.	Description
23	2410-64	1	Plug-Button
24	75-6820	1	Hourmeter
25	32144-18	2	Screw-HWH
26	100-1535	1	Switch-Rocker, (On)-Off-(On)
27	99-7420	3	Plug-Hole
28	106-2027	1	Switch-Intermittent
29	95-8999	2	Switch
30	115-9117	1	Cable-Throttle
31	3290-134	2	Screw
32	110-8911	1	Seal-Foam
33	99-7411	1	Point-Power
34	99-7416	1	Cap
35	93-9999	1	Switch-PTO
36	119-1308	1	Harness-Wire, Seat
36:1	104-4022	1	Resistor-75 Ohm
36:2	32180-043	1	Resistor-120 Ohm
37	110-0542	2	Spacer-Flange
38	107069	2	Clip
39	117-2378	1	Holder-Bag
40	3290-321	2	Screw-HWH
41	3296-2	2	Nut-Lock, NI
42	117-2384	1	Decal-Console, Lower
43	117-2385	1	Decal-Console, Upper
44	117-2386	1	Decal-Lift



Hydraulic Filter and Reservoir Assembly

Ref.	Part Number	Qty.	Description
1	93-7498	1	Plug-Plastic
2	237-101	1	O-Ring
3	119-6968	1	Dipstick-Oil
4	115-9793	1	Breather
6	119-0017	1	Tank-HYD
7	92-6058	1	Fitting-STR
7:1	237-81	1	O-Ring
7:2	237-58	1	O-Ring
8	104-7546	1	Tank Strainer ASM
8:1	340-136	1	O-Ring
9	2412-111	2	Clamp

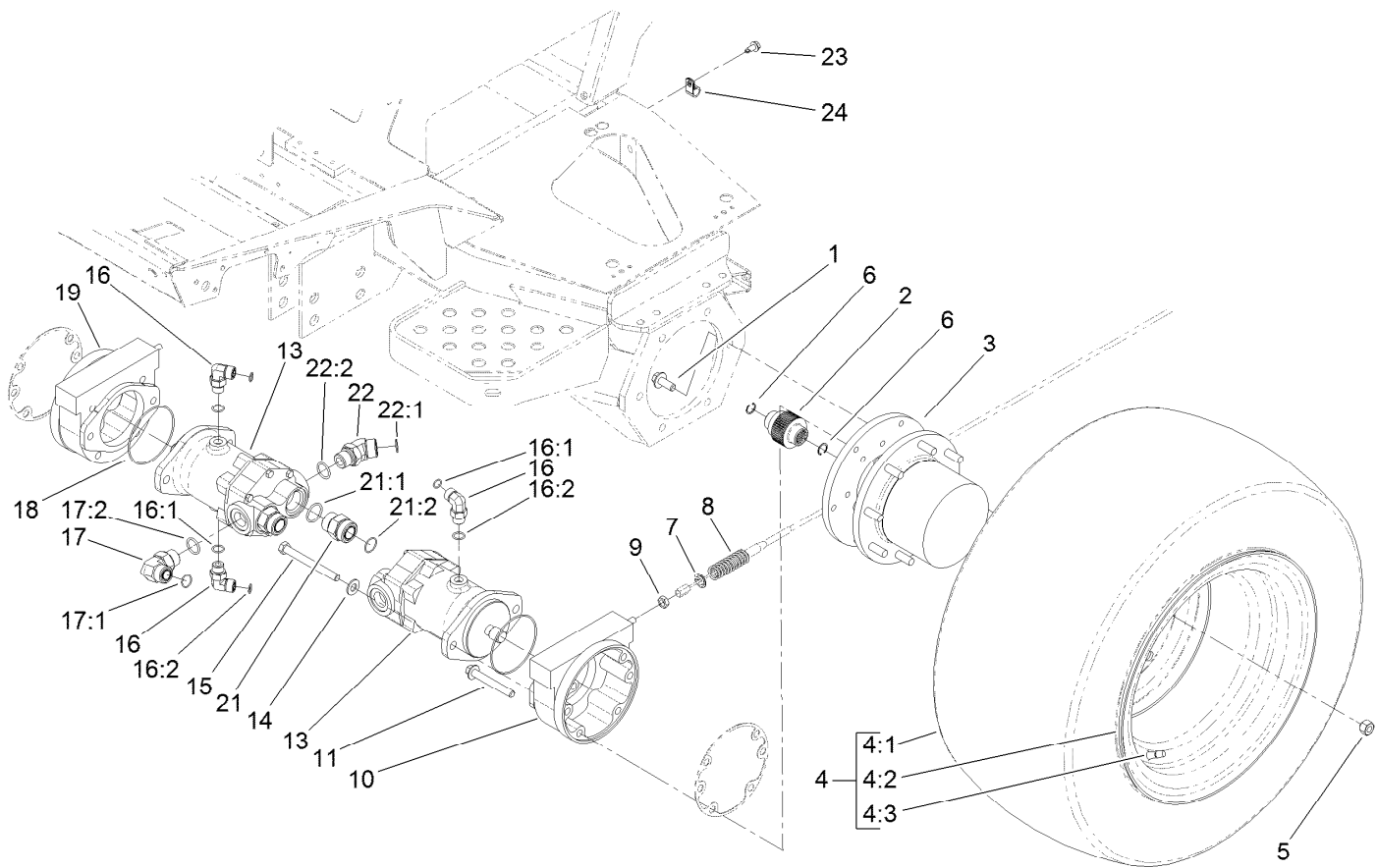
Ref.	Part Number	Qty.	Description
10	340-109	1	Fitting-Tee
10:1	237-79	1	O-Ring
10:2	237-30	2	O-Ring
11	322-11	2	Screw-HH
12	107-4543	2	Clamp
13	104-8300	3	Nut-HF, NI
14	61-2790	1	Filter-Screen
23	108-1605	1	Bumper-Recess
25	3256-3	1	Washer-Flat
36	3256-23	2	Washer-Plain
37	322-5	1	Screw-HH



Fuel Tank and Filter Assembly

Ref.	Part Number	Qty.	Description
1	115-4354	1	Tube-Suction, Fuel
2	2412-80	2	Clamp-Hose
3	110-3257	1	Hose-Fuel
4	104-5605	1	Fitting-Return
5	110-0471	1	Hose-Fuel
6	114-5062	1	Cap-Biodiesel
7	46-6560	2	Bushing
8	92-2379	6	Clamp-Hose
9	115-4353	1	Fuel Tank ASM
9:1	2412-36	1	Clamp-Hose
9:2	304-46	1	Draincock
9:4	117-4790	1	Guage-Fuel
9:5	95-8972	1	Grommet
10	322-11	2	Screw-HH

Ref.	Part Number	Qty.	Description
11	107-4543	2	Clamp
12	104-8300	2	Nut-HF, NI
13	110-8806	1	Pump-Fuel
14	32144-110	1	Screw-HWH
15	110-8817	1	Bracket-Pump, Fuel
16	109-0309	1	Hose-Fuel
17	110-4109	1	Hose-Fuel
18	321-6	2	Screw-HH
19	104-7201	2	Nut-HF
20	110-9044	1	Separator-Filter
20:1	110-9049	1	Filter-Spin On
21	353-781	2	Fitting-HYD, 90
22	3256-23	2	Washer-Plain
23	3256-22	2	Washer-Flat

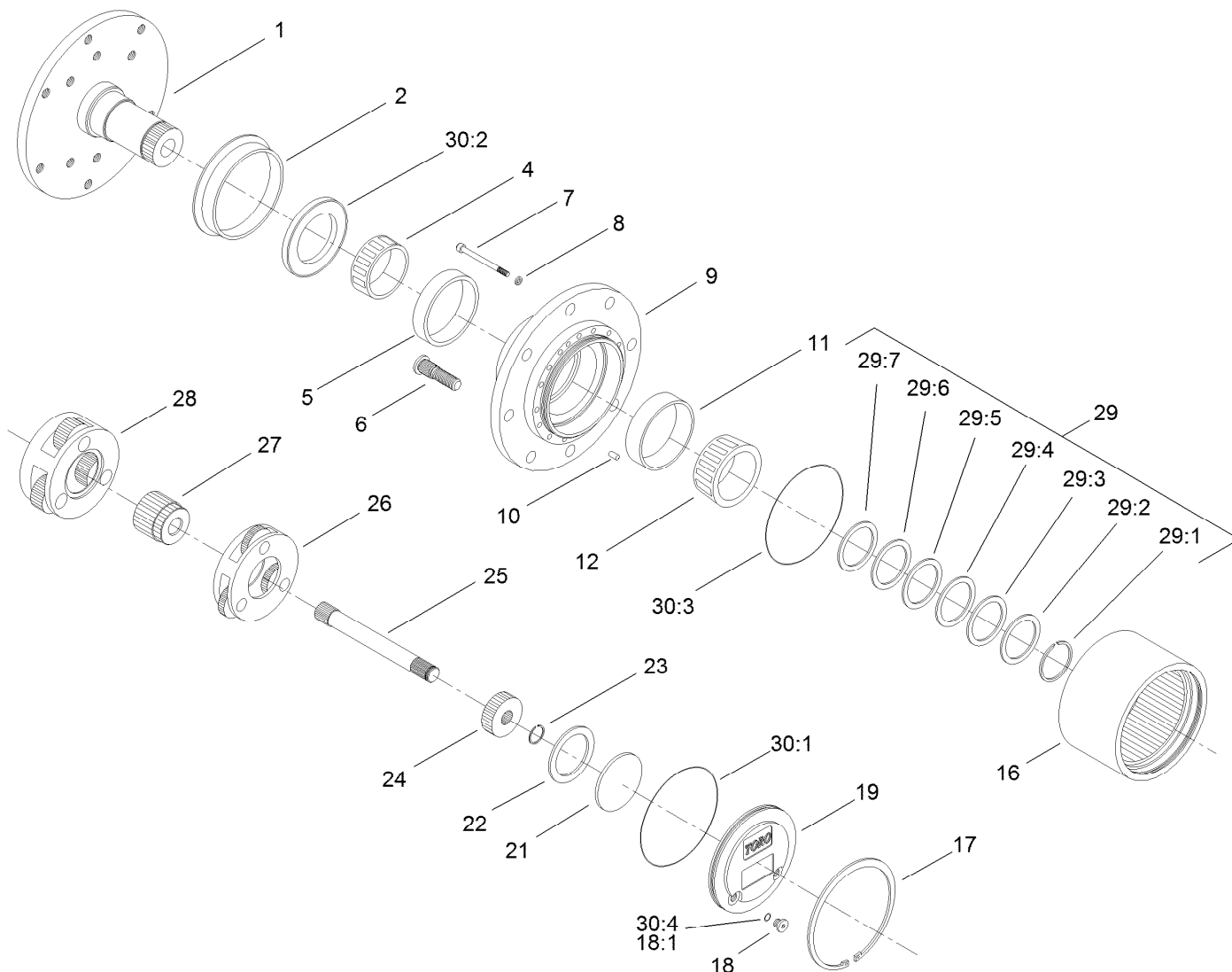


Front Drive and Brake Assembly

Ref.	Part Number	Qty.	Description
1	33106-030	12	Screw-HHF
2	100-3046	2	Shaft-Brake, Splined
3	105-4500-03	2	Planetary ASM
4		2	Tire And Wheel ASM ●
4:1	119-0023	1	Tire
4:2	119-0024	1	Wheel
4:3	232-24	1	Stem-Valve
5	92-7483	16	Nut-Lug
6	93-7972	4	Ring-Retaining, Internal
7	94-3050	2	Plate-Spring
8	94-3088	2	Spring-Compression
9	3218-4	2	Nut-Jam
10	100-3070-03	1	Brake ASM
11	33106-090	8	Screw-HHF
13	105-1218	2	Piston Motor ASM
14	3256-26	4	Washer-Flat
15	33116-120	4	Screw-HH

Ref.	Part Number	Qty.	Description
16	340-98	3	Fitting-Elbow, 90 DEG
16:1	237-79	1	O-Ring
16:2	237-30	1	O-Ring
17	340-142	2	Fitting-Elbow, 90 DEG
17:1	237-58	1	O-Ring
17:2	237-81	1	O-Ring
18	237-166	2	O-Ring
19	100-3069-03	1	Brake ASM
21	104-3797	4	Fitting-Straight
21:1	237-146	1	O-Ring
21:2	340-65	1	O-Ring
22	100-5530	2	Fitting-45 DEG
22:1	237-58	1	O-Ring
22:2	237-81	1	O-Ring
23	32104-32	2	Screw-HWH
24	2412-93	2	Clamp-R

● Not serviced separately



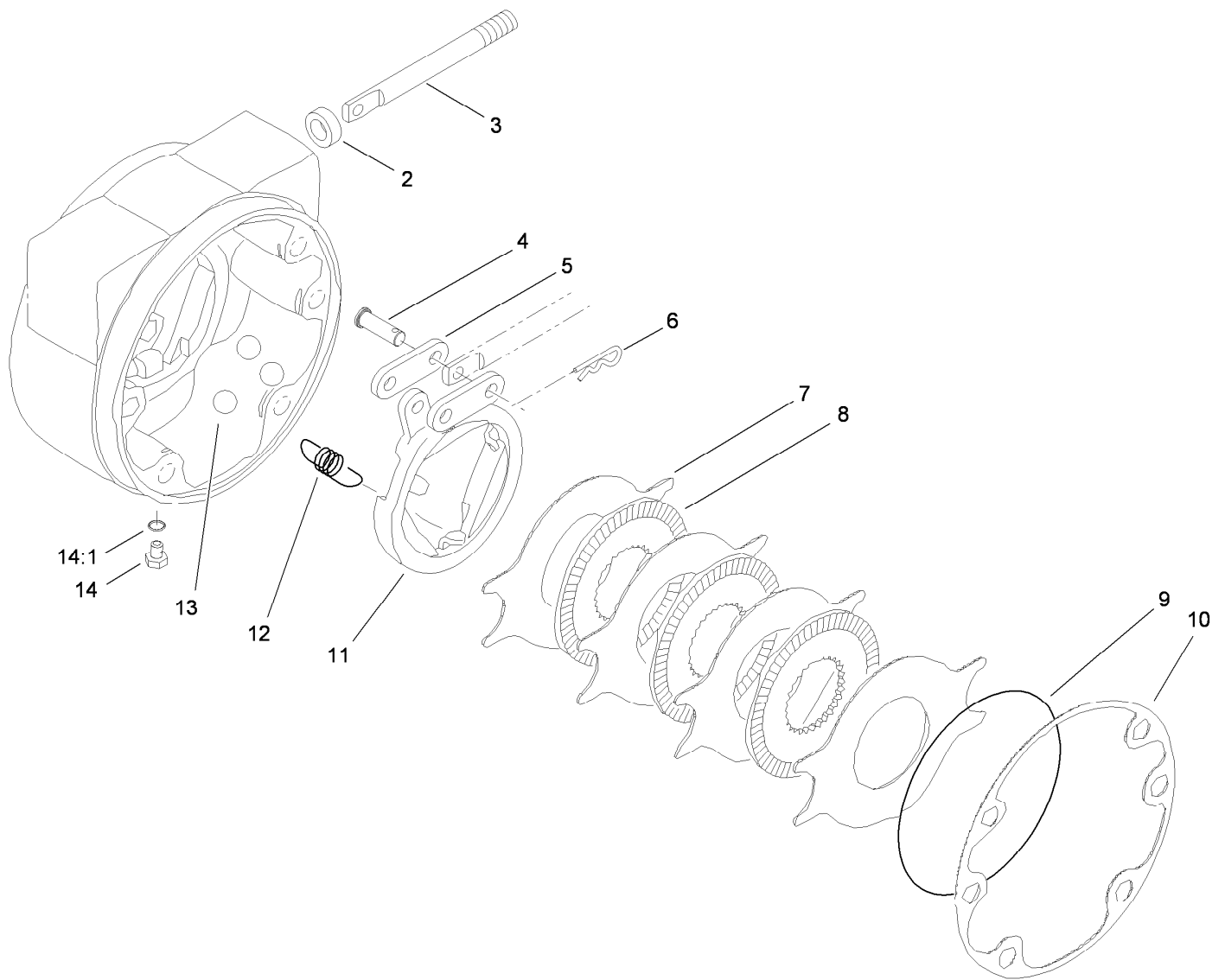
Planetary Assembly No. 105-4500-03

Ref.	Part Number	Qty.	Description
1		1	Spindle ■
2	105-8122	1	Seal-Boot
4	105-8120	1	Bearing-Cone
5	105-8119	1	Bearing-Cup
6	105-8124	8	Stud-Wheel
7	105-8125	16	Bolt-Head, Socket
8	3253-18	16	Washer-Lock
9		1	Housing ■
10	105-8121	1	Pin-Dowel
11	105-8117	1	Bearing-Cup
12	105-8118	1	Bearing-Cone
16	105-8113	1	Gear-Ring
17	105-8132	1	Ring-Retaining
18	353-990	2	Plug ASM
18:1	237-78	1	O-Ring
19	105-8138	1	Cap-End
21	105-8133	1	Plug-Thrust
22	105-8123	1	Washer-Thrust
23	105-8131	1	Ring-Retaining

Ref.	Part Number	Qty.	Description
24	105-8114	1	Gear-Primary
25	105-8115	1	Shaft-Drive
26	105-8129	1	Carrier-Primary
27	105-8139	1	Gear-Secondary
28	105-8130	1	Carrier-Secondary
29	105-8136	1	Shim Kit
29:1		1	Ring-Snap ■
29:2		1	Shim-Bearing, 2.9Mm ■
29:3		1	Shim-Bearing, 2.8Mm ■
29:4		1	Shim-Bearing, 2.7Mm ■
29:5		1	Shim-Bearing, 2.6Mm ■
29:6		1	Shim-Bearing, 2.5Mm ■
29:7		1	Shim-Bearing, 2.4Mm ■
30	105-8137	1	Seal Kit ●
30:1		1	O Ring-Flange Cap ■
30:2		1	Seal-Oil ■
30:3		2	O Ring-End Cap ■
30:4	237-78	2	O-Ring

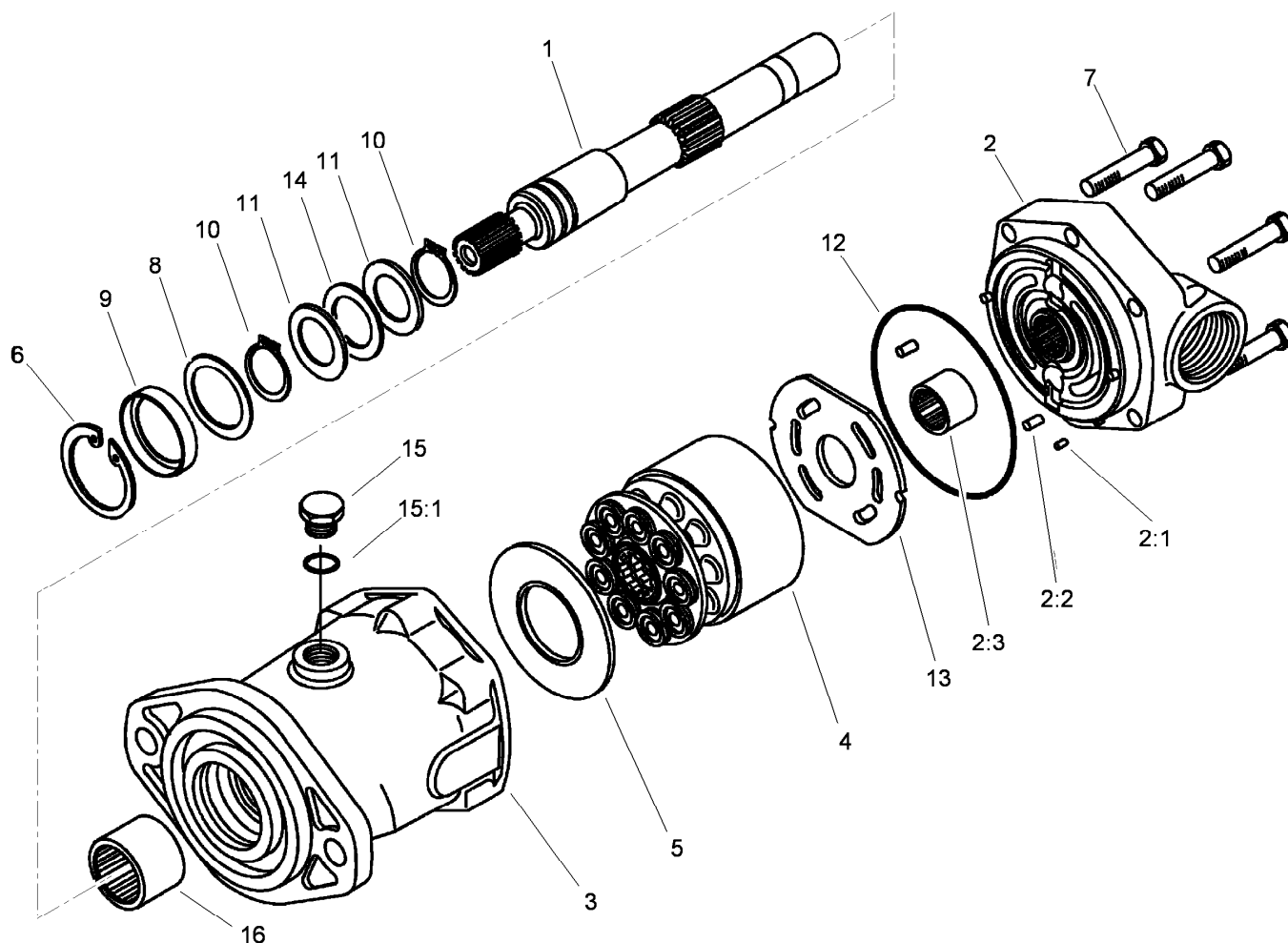
● Not illustrated

■ Not serviced separately



Brake Assembly No. 100-3070-03

Ref.	Part Number	Qty.	Description
2	93-7977	1	Seal
3	93-7978	1	Rod-Pull
4	93-7983	2	Pin-Clevis
5	93-7980	2	Link
6	93-7979	2	Pin-Hitch
7	93-7986	4	Disc-Stationary
8	104-4278	3	Disc-Rotating
9	93-7976	1	Ring-Retaining
10	93-7984	1	Gasket
11	104-4279	1	Actuator-Rotating
12	93-7987	3	Spring-Extension
13	93-7985	3	Ball
14	353-990	2	Plug ASM
14:1	237-78	1	O-Ring

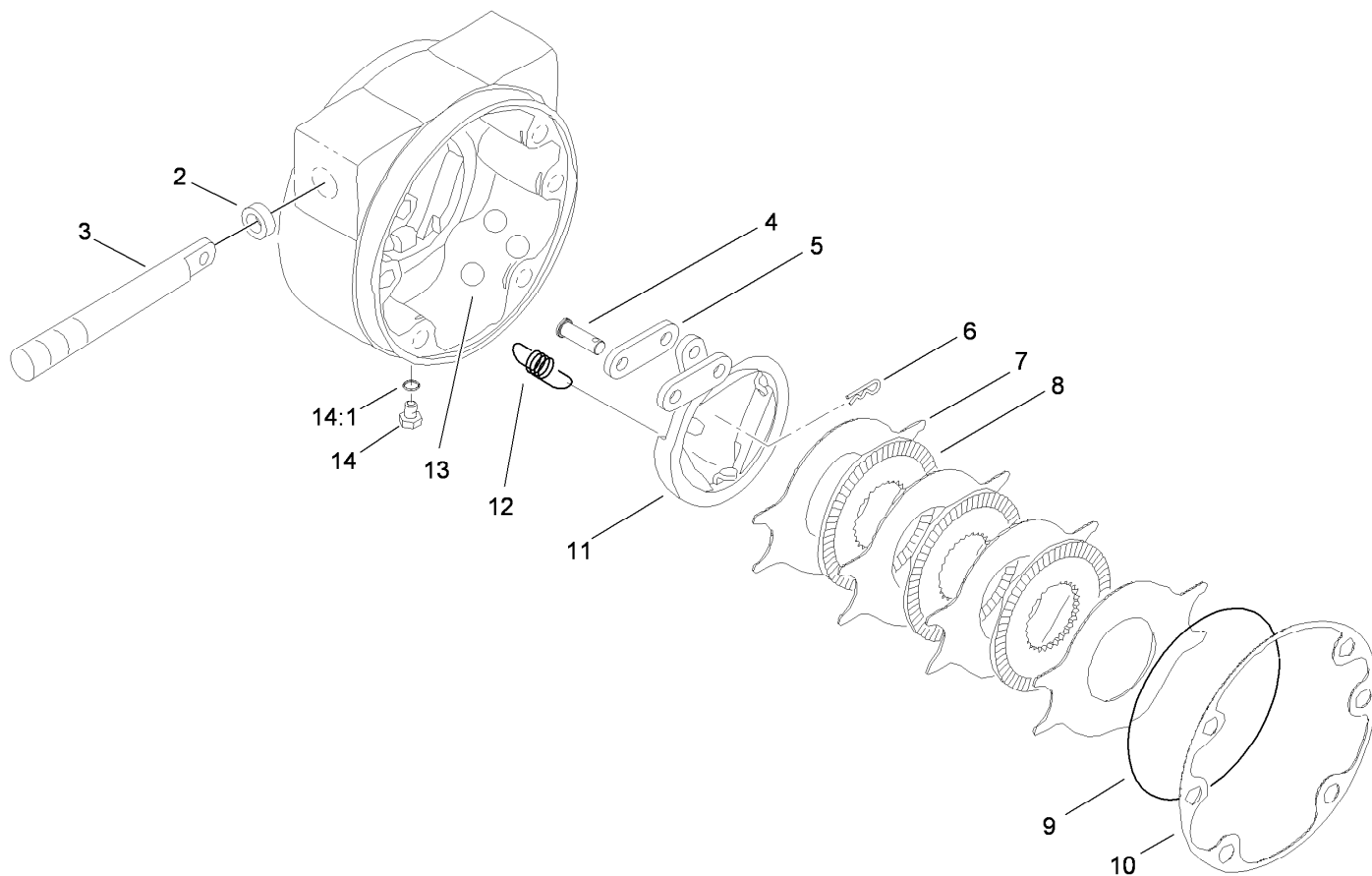


Piston Motor Assembly No. 105-1218

Ref.	Part Number	Qty.	Description
1	94-3004	1	Shaft-Drive, Splined
2	105-2851	1	Backplate ASM
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring
7	94-3002	6	Screw-Cap

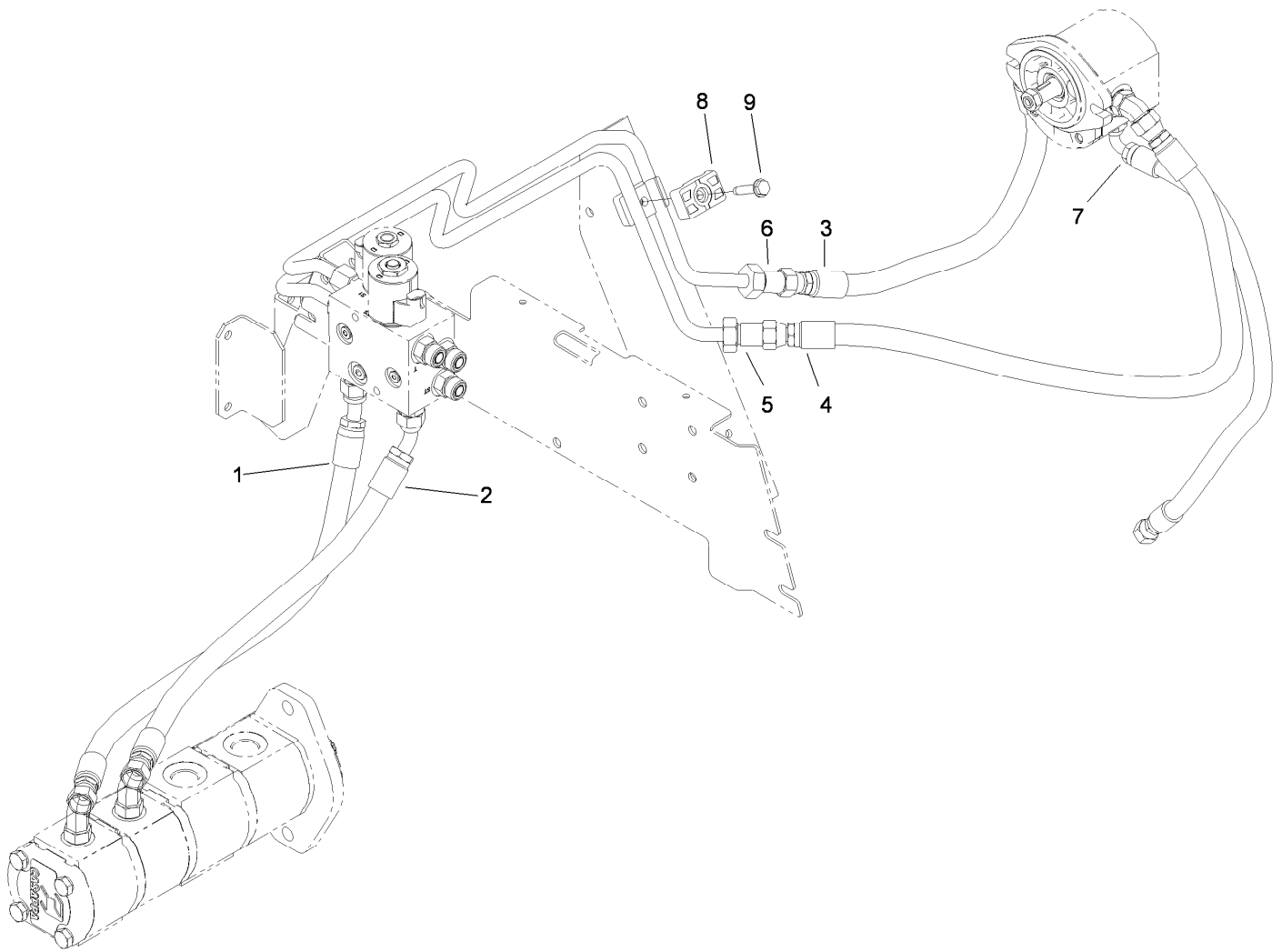
Ref.	Part Number	Qty.	Description
8	60-6240	1	Washer
9	105-3331	1	Seal-Shaft
10	76-7000	2	Ring-Retaining
11	76-6950	2	Race-Thrust
12	76-6980	1	O-Ring
13	94-3003	1	Plate-Valve
14	76-6960	1	Bearing-Thrust
15	353-550	1	Plug-HYD, HH
15:1	237-79	1	O-Ring
16	63-4390	1	Bearing-Needle

● Not serviced separately



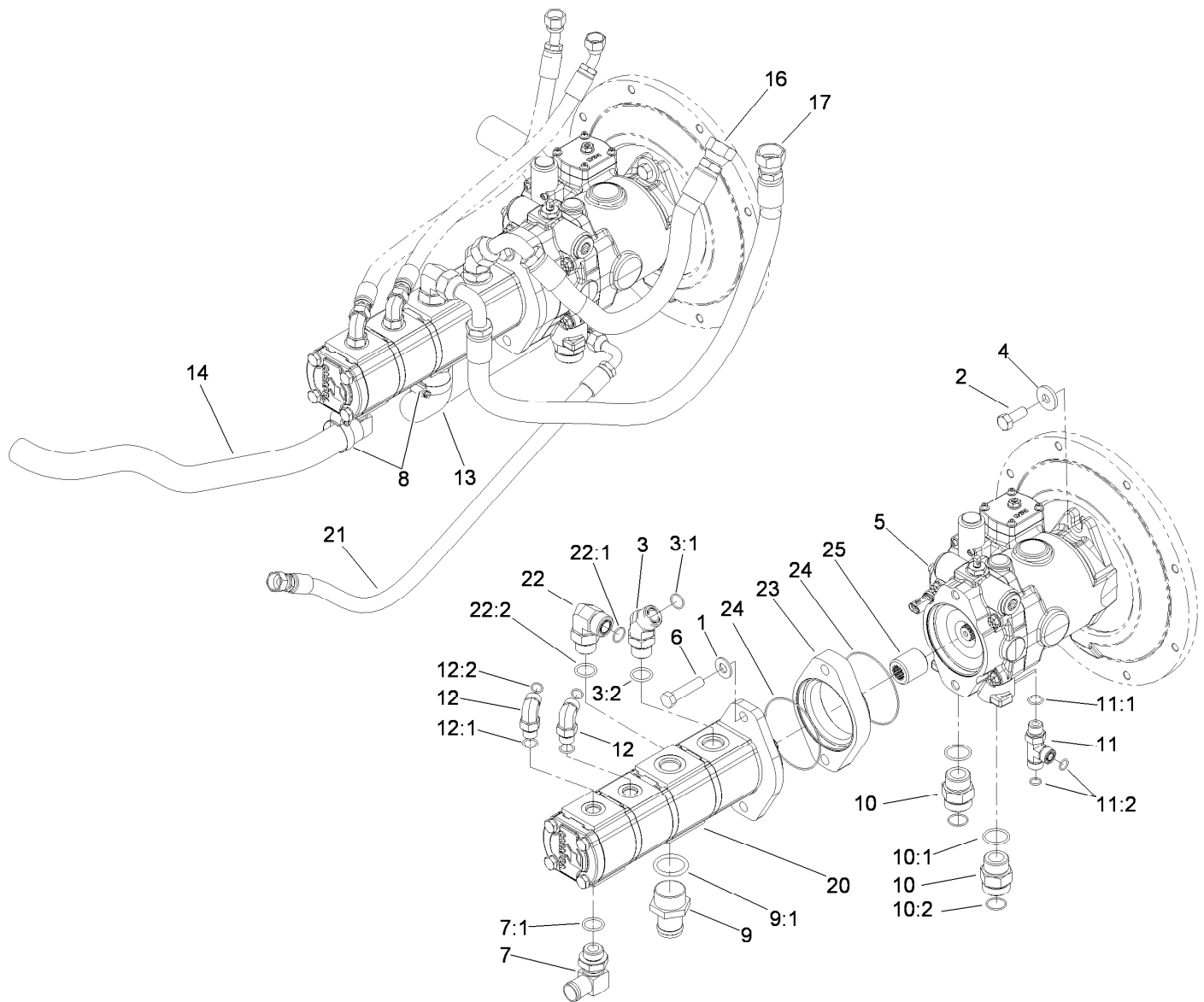
Brake Assembly No. 100-3069-03

Ref.	Part Number	Qty.	Description
2	93-7977	1	Seal
3	93-7978	1	Rod-Pull
4	93-7983	2	Pin-Clevis
5	93-7980	2	Link
6	93-7979	2	Pin-Hitch
7	93-7986	4	Disc-Stationary
8	104-4278	3	Disc-Rotating
9	93-7976	1	Ring-Retaining
10	93-7984	1	Gasket
11	104-4280	1	Actuator-Rotating
12	93-7987	3	Spring-Extension
13	93-7985	3	Ball
14	353-990	2	Plug ASM
14:1	237-78	1	O-Ring



Fan Plumbing Assembly

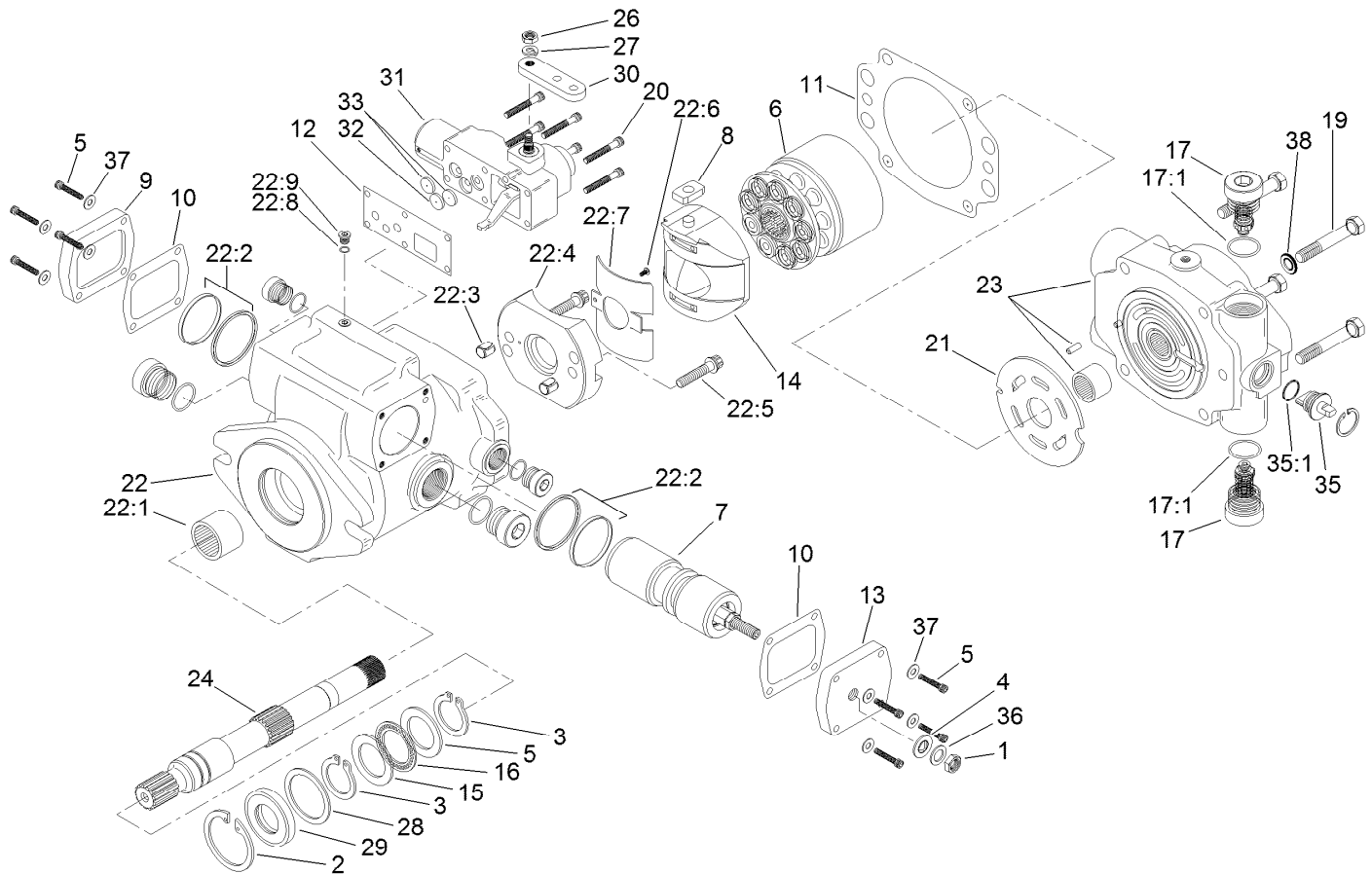
Ref.	Part Number	Qty.	Description
1	115-4438	1	Hose-HYD
2	115-4439	1	Hose-HYD
3	92-2406	1	Hose-HYD
4	115-9116	1	Hose-HYD
5	115-9122	1	Tube-HYD
6	115-9123	1	Tube-HYD
7	115-4434	1	Hose-HYD
8	56-7976	2	Clamp-Tube
9	32144-57	1	Screw



Hydraulic Pump Assembly

Ref.	Part Number	Qty.	Description
1	87-7270	2	Washer-Thrust
2	325-5	2	Screw-HH
3	100-5530	1	Fitting-45 DEG
3:1	237-58	1	O-Ring
3:2	237-81	1	O-Ring
4	110-6147	2	Washer-Flat
5	114-4188	1	Piston Pump ASM
6	115-8488	2	Screw-HH
7	100-4202	1	Fitting-90
7:1	237-81	1	O-Ring
8	2412-111	2	Clamp
9	104-5480	1	Fitting-Hose, Straight
9:1	237-123	1	O-Ring
10	104-3797	2	Fitting-Straight
10:1	237-146	1	O-Ring
10:2	340-65	1	O-Ring
11	340-109	1	Fitting-Tee

Ref.	Part Number	Qty.	Description
11:1	237-79	1	O-Ring
11:2	237-30	2	O-Ring
12	340-98	2	Fitting-Elbow, 90 DEG
12:1	237-79	1	O-Ring
12:2	237-30	1	O-Ring
13	115-4449	1	Hose
14	115-4447	1	Hose-Suction
16	117-4762	1	Hose-HYD
17	115-4384	1	Hose-HYD
20	114-4189	1	4-Section Pump ASM
21	105-3985	1	Hose-HYD
22	340-142	1	Fitting-Elbow, 90 DEG
22:1	237-58	1	O-Ring
22:2	237-81	1	O-Ring
23	115-3757	1	Spacer-Pump
24	115-3009	2	O-Ring
25	115-3011	1	Coupler-Pump

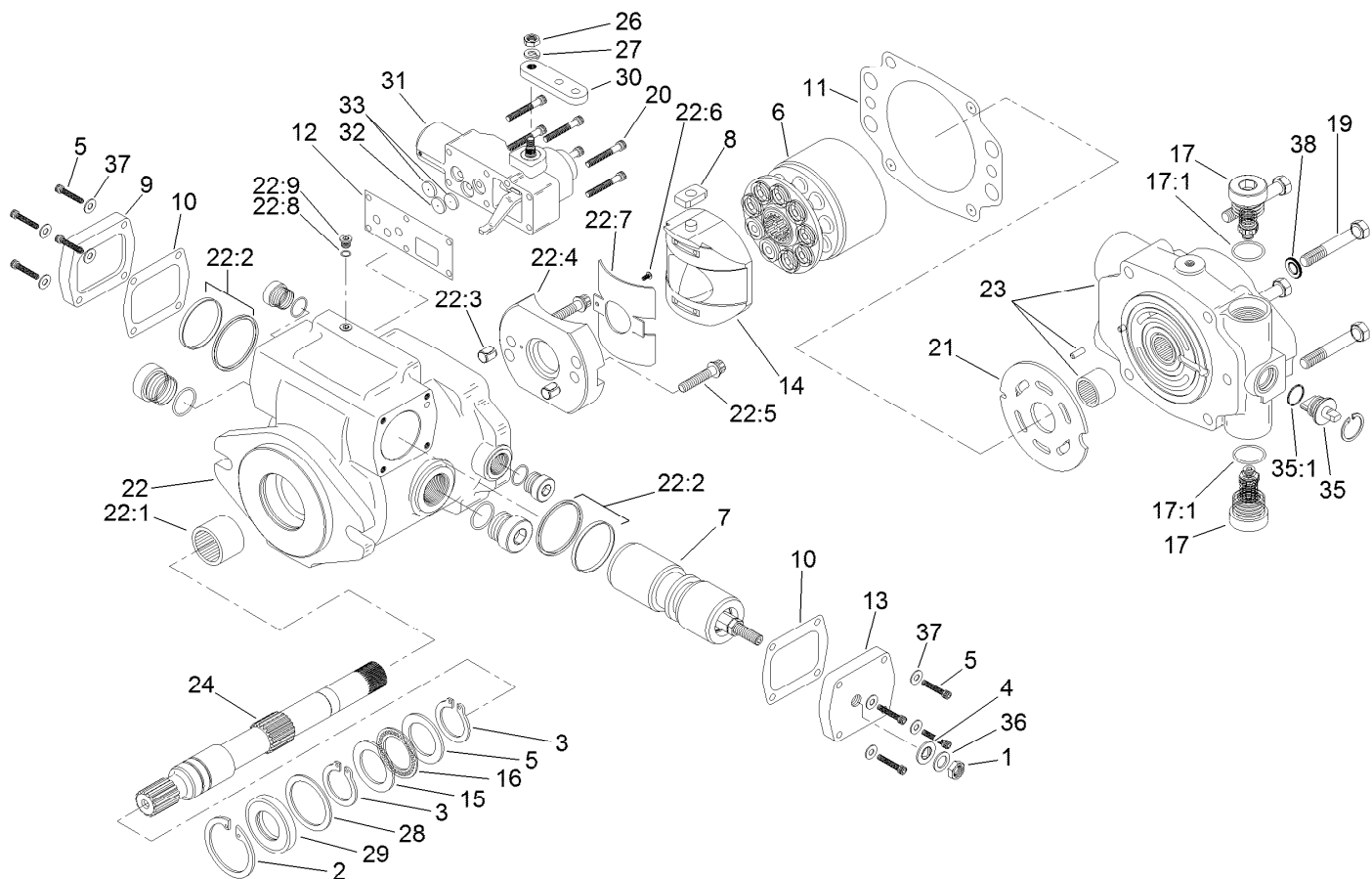


Piston Pump Assembly No. 114-4188

Ref.	Part Number	Qty.	Description
1	3220-3	1	Nut-HJ
2	60-6260	1	Ring
3	76-7000	2	Ring-Retaining
4	94-3027	1	Washer-Seal
5	93-6337	8	Screw
6	105-9851	1	Rotating Kit
7	105-4572	1	Servo Piston ASM
8	94-3032	1	Follower-Piston
9	94-3033	1	Plate-Cover
10	93-6339	2	Gasket
11	105-2900	1	Gasket-Housing
12	105-2901	1	Gasket-Housing, Control
13	105-9853	1	Plate-Cover
14	94-3026	1	Camplate ASM
15	76-6950	2	Race-Thrust
16	76-6960	1	Bearing-Thrust
17	105-2857	2	Valve-Relief
17:1		1	O-Ring ●

Ref.	Part Number	Qty.	Description
19	323-45	4	Screw-HH
20	93-6324	6	Screw
21	105-9854	1	Plate-Valve
22	105-9855	1	Housing ASM
22:1		1	Bearing ●
22:2		2	Seal ASM ●
22:3		2	Dowel-Bushing ●
22:4		1	Cradle ASM ●
22:5		2	Screw ●
22:6		1	Screw ●
22:7		1	Bushing ●
22:8		1	O-Ring ●
22:9		1	Plug ●
23	115-4445	1	Endcover Sub ASM
24	115-3008	1	Shaft-Drive
26	93-6327	1	Nut
27	3253-3	1	Washer-Lock
28	60-6240	1	Washer

● Not serviced separately

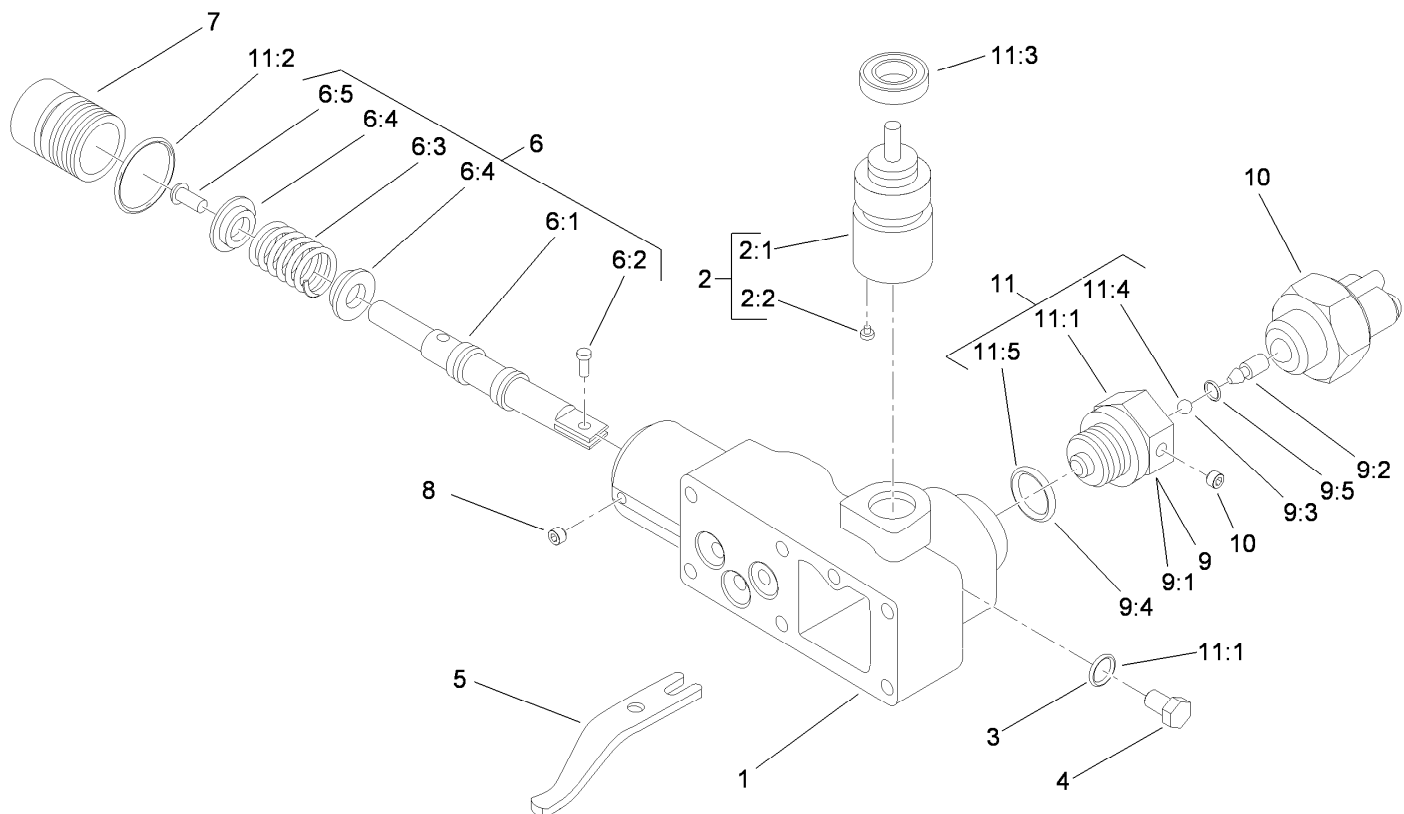


Piston Pump Assembly No. 114-4188 (continued)

Ref.	Part Number	Qty.	Description
29	105-3331	1	Seal-Shaft
30	110-0036	1	Arm-Control
31	115-4446	1	Control-Servo, Manual
32	105-2909	1	Orifice-Control, .036 DIA
33	94-3041	2	Orifice-Control (.028 DIA)

Ref.	Part Number	Qty.	Description
35	105-2864	1	Valve-Bypass
35:1		1	O-Ring ●
36	94-3030	1	Washer
37	93-6336	8	Washer
38	105-9762	4	Washer

● Not serviced separately

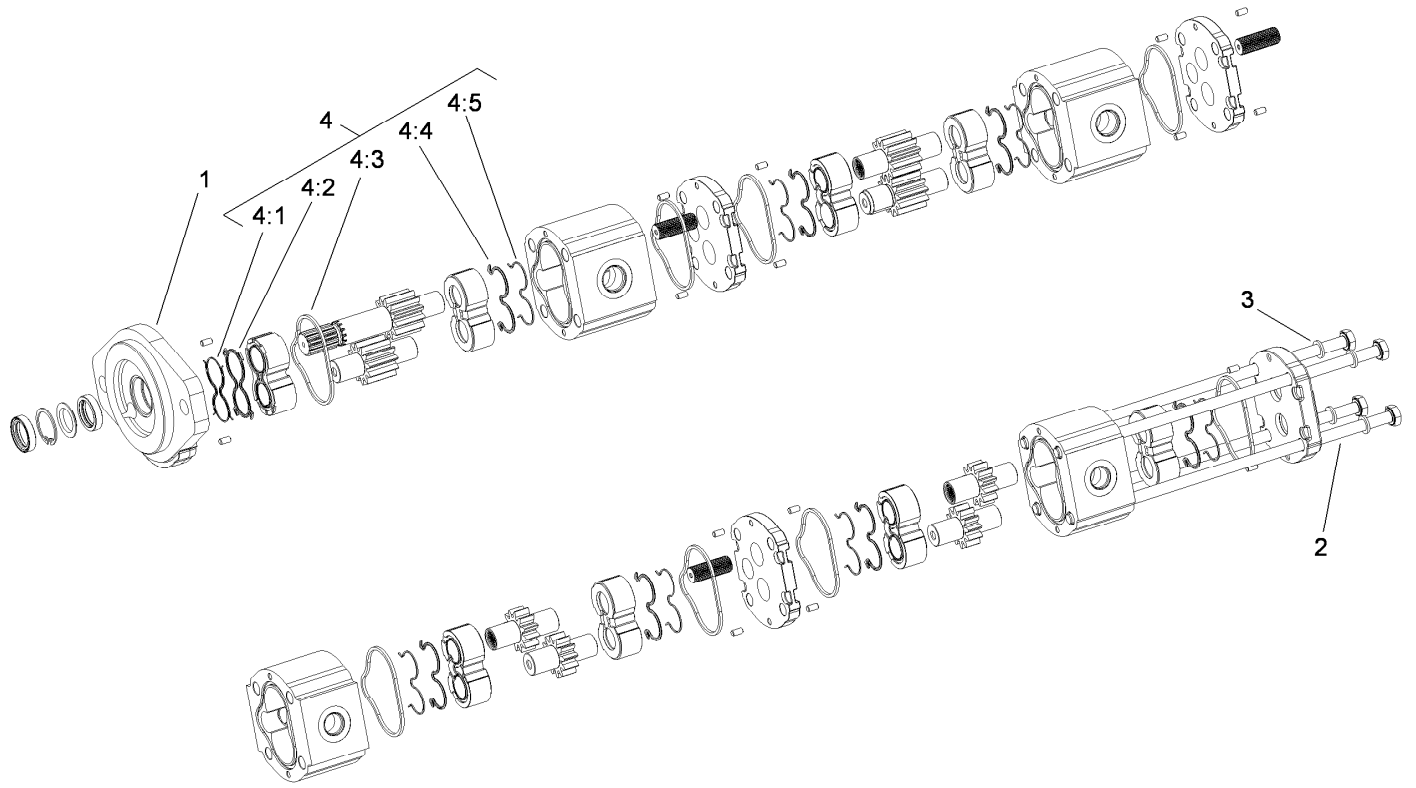


Control Assembly No. 115-4446

Ref.	Part Number	Qty.	Description
1		1	Housing-Control ●
2	108-7099	1	Input Control Shaft ASM
2:1		1	Shaft ●
2:2		1	Pin ●
3		1	O-Ring ●
4		1	Plug ●
5		1	Link-Feedback ●
6	108-7098	1	Valve Spool ASM
6:1		1	Valve-Spool ●
6:2		1	Pin-Dowel ●
6:3		1	Spring ●
6:4		2	Retainer ●
6:5		1	Screw ●
7		1	Plug ●

Ref.	Part Number	Qty.	Description
8		2	Screw-Set ●
9	108-8003	1	Adaptor ASM
9:1		1	Adaptor-Lockout, Neutral ●
9:2		1	Pin ●
9:3		1	Ball ●
9:4		1	O-Ring ●
9:5		1	O-Ring ●
10	115-3795	1	Switch-Neutral
11	94-3044	1	Seal Kit
11:1	117-8979	1	Seal-Shaft
11:2	105-2901	1	Gasket-Housing, Control
11:3		1	O-Ring ●
11:4		1	O-Ring ●
11:5		1	Seal-Wiper ●

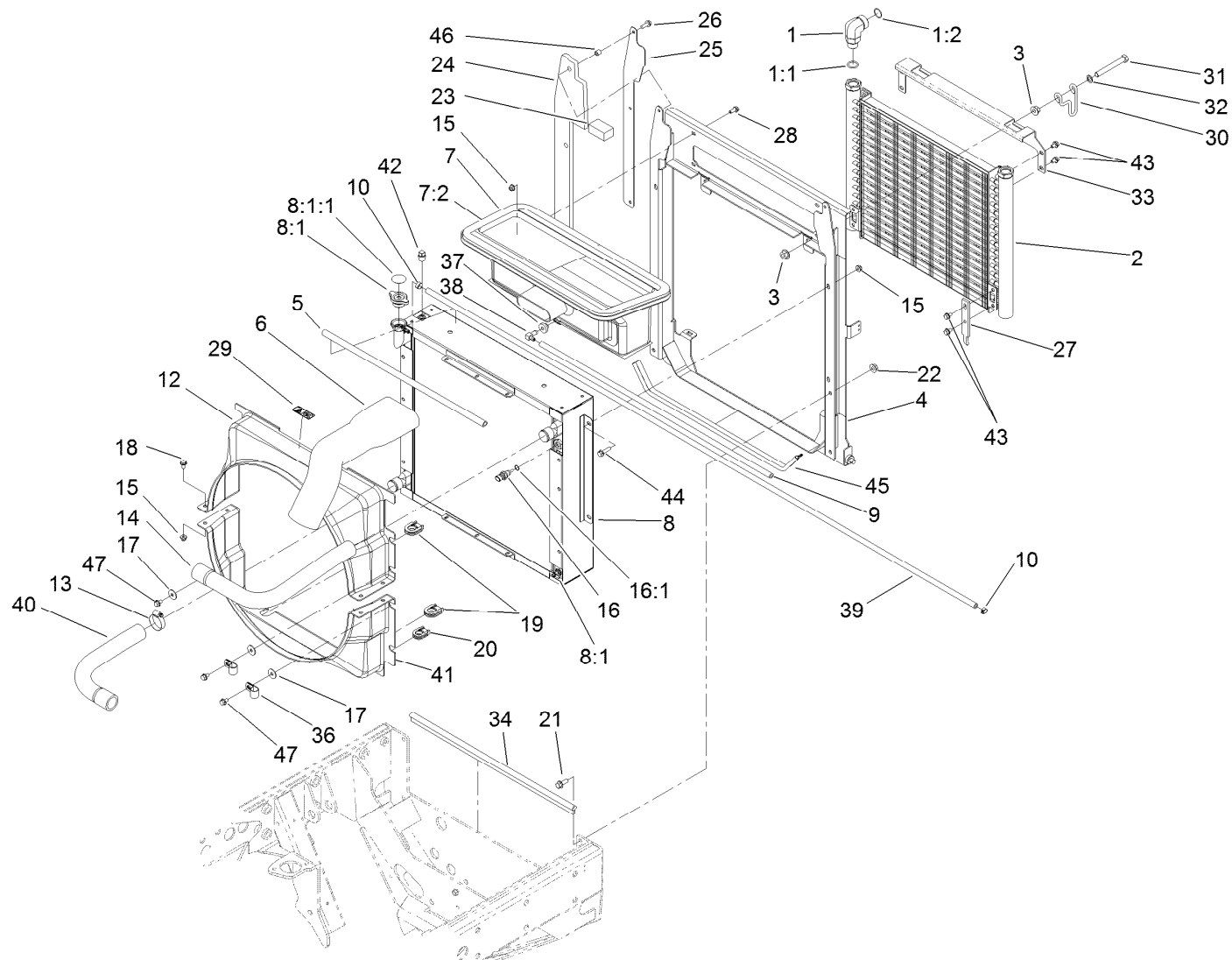
● Not serviced separately



Four Section Pump Assembly No. 114-4189

Ref.	Part Number	Qty.	Description
1	115-3774	1	Cover-Front
2	115-4444	4	Bolt
3	115-9138	4	Washer
4	115-3776	1	Seal Kit
4:1		1	Seal ●
4:2		1	Seal ●
4:3		8	Seal ●
4:4		7	Seal ●
4:5		7	Seal ●

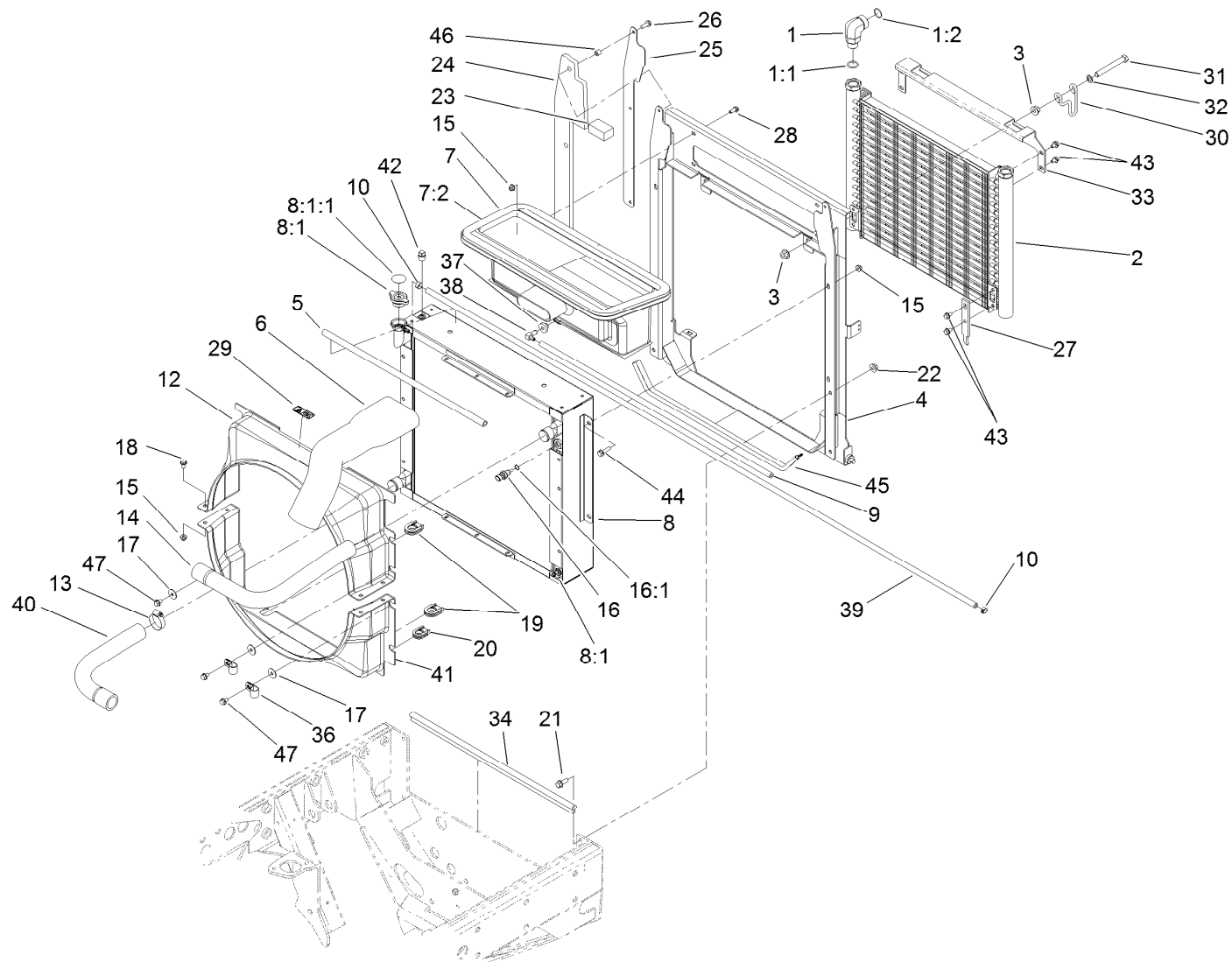
● Not serviced separately



Radiator Assembly

Ref.	Part Number	Qty.	Description
1	104-3796	2	Fitting-Elbow 90
1:1	237-81	1	O-Ring
1:2	340-65	1	O-Ring
2	110-0485	1	Cooler-Oil
3	32128-49	4	Nut-HHF
4	114-4153-03	1	Radiator Mount ASM
5	114-3828	1	Seal-Bulb
6	114-4152	1	Hose-Air Cleaner
7	115-4363	1	Plenum ASM
7:2	115-4393	1	Seal-Plenum
8	119-3871	1	Radiator
8:1	115-7766	1	Cap-Radiator
8:1:1	106-6755	1	Decal-Cap, Radiator
9	110-3258	1	Hose-Fuel
10	92-2379	3	Clamp-Hose
12	114-3816	1	Shroud-Radiator, Upper
13	2412-111	4	Clamp
14	114-3831	1	Hose-Radiator, Upper
15	104-8300	12	Nut-HF, NI
16	110-8829	1	Sender-Temperature
16:1	237-42	1	O-Ring

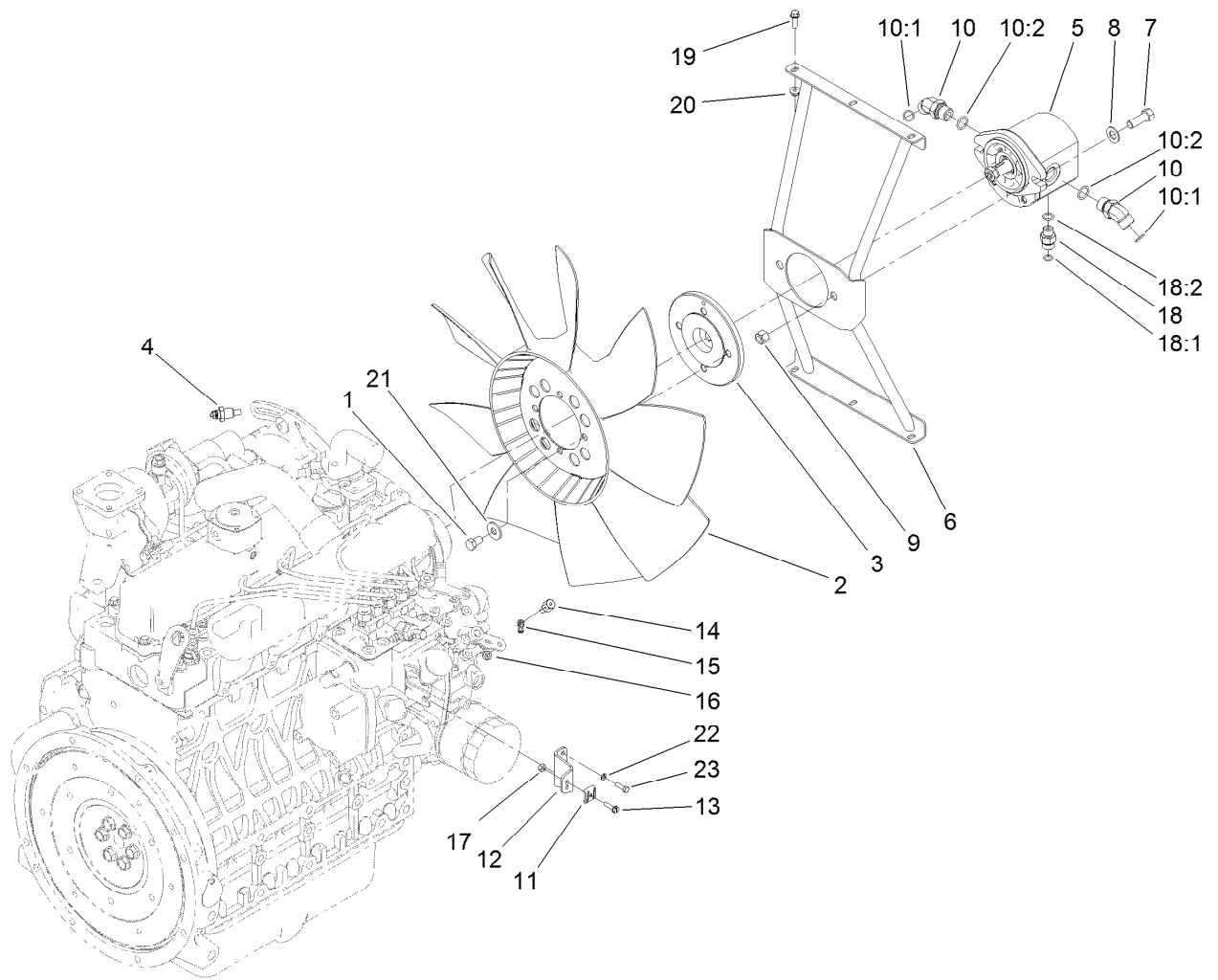
Ref.	Part Number	Qty.	Description
17	3256-82	8	Washer-Flat
18	3234-7	4	Screw-HHF
19	115-3763	2	Grommet (.800 ID)
20	115-3764	1	Grommet (.680 ID)
21	3234-11	4	Screw-HHF
22	32128-43	4	Nut-Flange
23	115-9133	2	Seal-Foam
24	117-4780	2	Seal-Foam, Hood
25	117-4781-03	2	Bracket-Seal Hood
26	32144-41	2	Screw-Taptite
27	104-5460-03	2	Plate-Mount, Oil Cooler
28	3234-47	4	Screw-HHF
29	117-4766	1	Decal-Warning, Fan
30	104-5429	2	Clamp-Form, Wire
31	325-17	2	Screw-HH
32	41-8440	2	Washer
33	114-4193	1	Bracket-Oil Cooler, Top
34	105-9858	1	Seal-Bulb
36	2412-81	2	Clamp-R
37	46-6560	1	Bushing
38	46-6550	1	Fitting-Elbow, 90 DEG



Radiator Assembly (continued)

Ref.	Part Number	Qty.	Description
39	110-6184	1	Hose-Fuel
40	114-3832	1	Hose-Radiator, Lower
41	114-3834	1	Shroud-Radiator, Lower
42	281-13	1	Plug-Pipe
43	100-1719	8	Screw-Flange

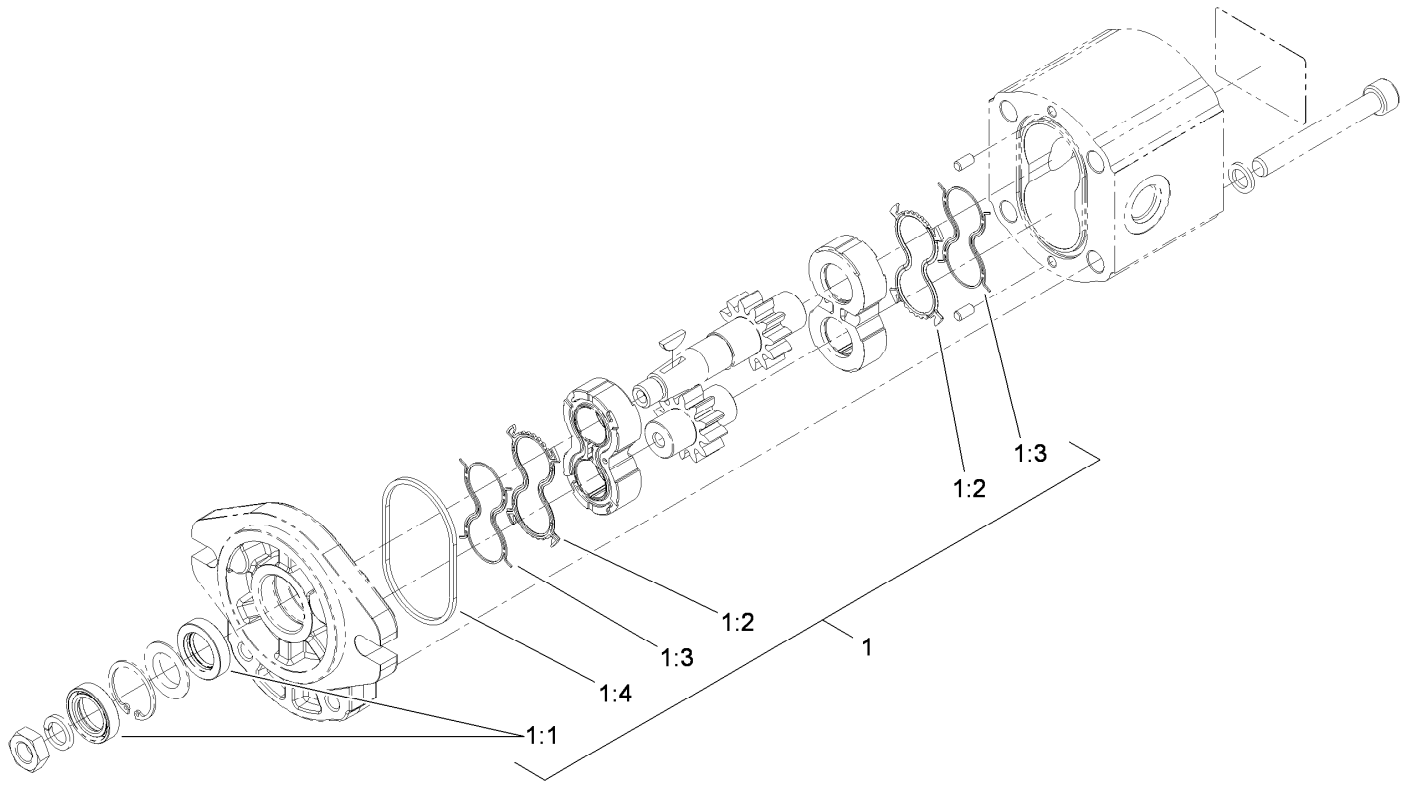
Ref.	Part Number	Qty.	Description
44	3234-36	4	Screw-HHF
45	117-4782	1	Seal-Bulb
46	1-603903	6	Spacer
47	3234-30	8	Screw-HHF



Fan and Motor Assembly

Ref.	Part Number	Qty.	Description
1	115-8486	4	Screw-HH
2	114-3825	1	Fan
3	117-2364	1	Hub-Fan
4	98-9346	1	Sender-Temperature
5	117-4769	1	HYD Motor ASM
6	114-9764-03	1	Bracket-Motor, Fan
7	324-5	2	Screw-HH
8	3256-25	2	Washer-Flat
9	3296-48	2	Nut-Hex
10	340-101	2	Fitting-HYD, 45 DEG
10:1	237-30	1	O-Ring
10:2	237-79	1	O-Ring
11	81-1690	1	Clamp-Cable
12	115-9114-03	1	Support-Cable, Throttle

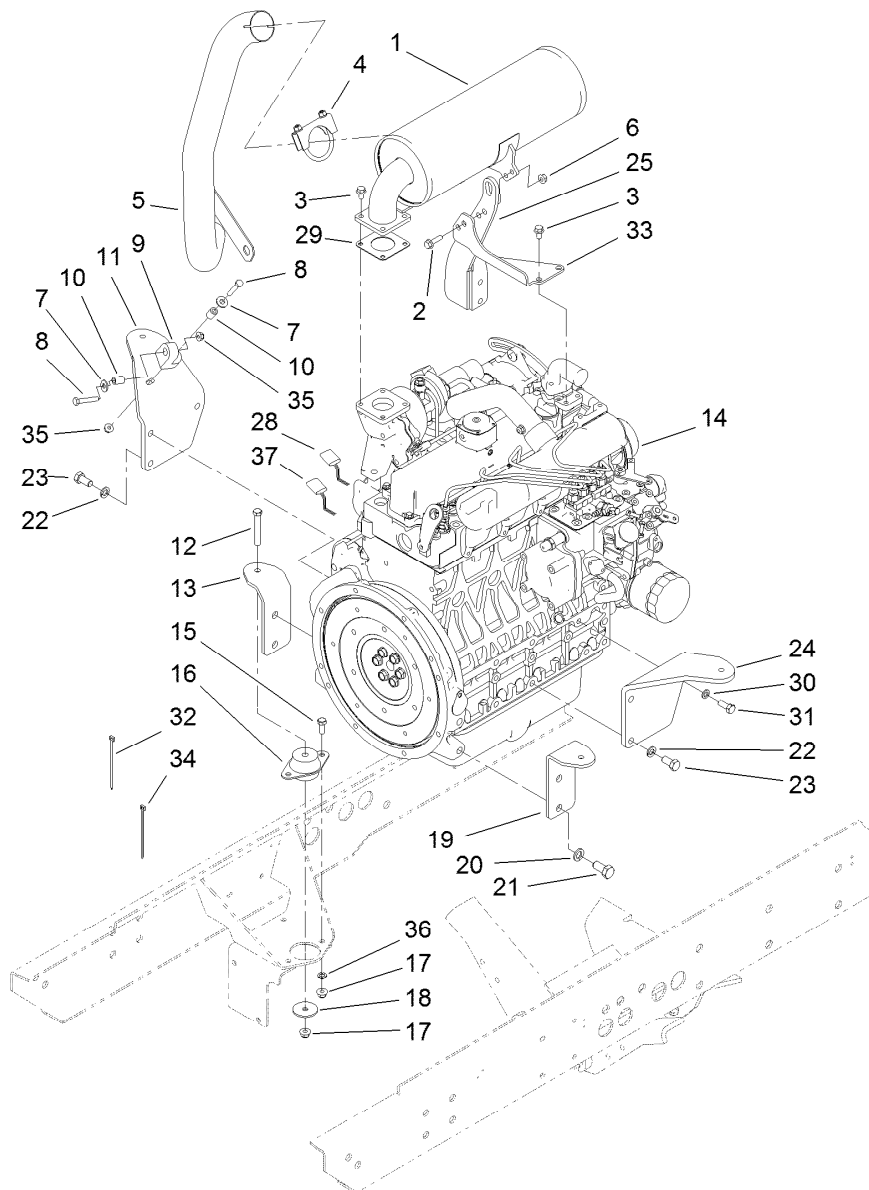
Ref.	Part Number	Qty.	Description
13	32105-13	1	Screw-HWH
14	93-0021	1	Swivel-Cable, Throttle
15	112-9919	1	Stop-Cable, Throttle
16	3296-13	1	Nut-Lock, NI
17	3296-2	1	Nut-Lock, NI
18	340-2	1	Fitting-Straight
18:1	237-22	1	O-Ring
18:2	237-42	1	O-Ring
19	99-6810	6	Screw-HHF
20	104-7201	6	Nut-HF
21	80-6990	4	Washer-Hardened
22	43-5930	2	Washer-Lock, Spring
23	33113-020	2	Screw-HH



Hydraulic Motor Assembly No. 117-4769

Ref.	Part Number	Qty.	Description
1	115-4110	1	Seal Kit
1:1		2	Seal-Shaft ●
1:2		2	Seal-Plate, Balancing ●
1:3		2	Seal-Anti Extrusion ●
1:4		2	O Ring-Housing ●

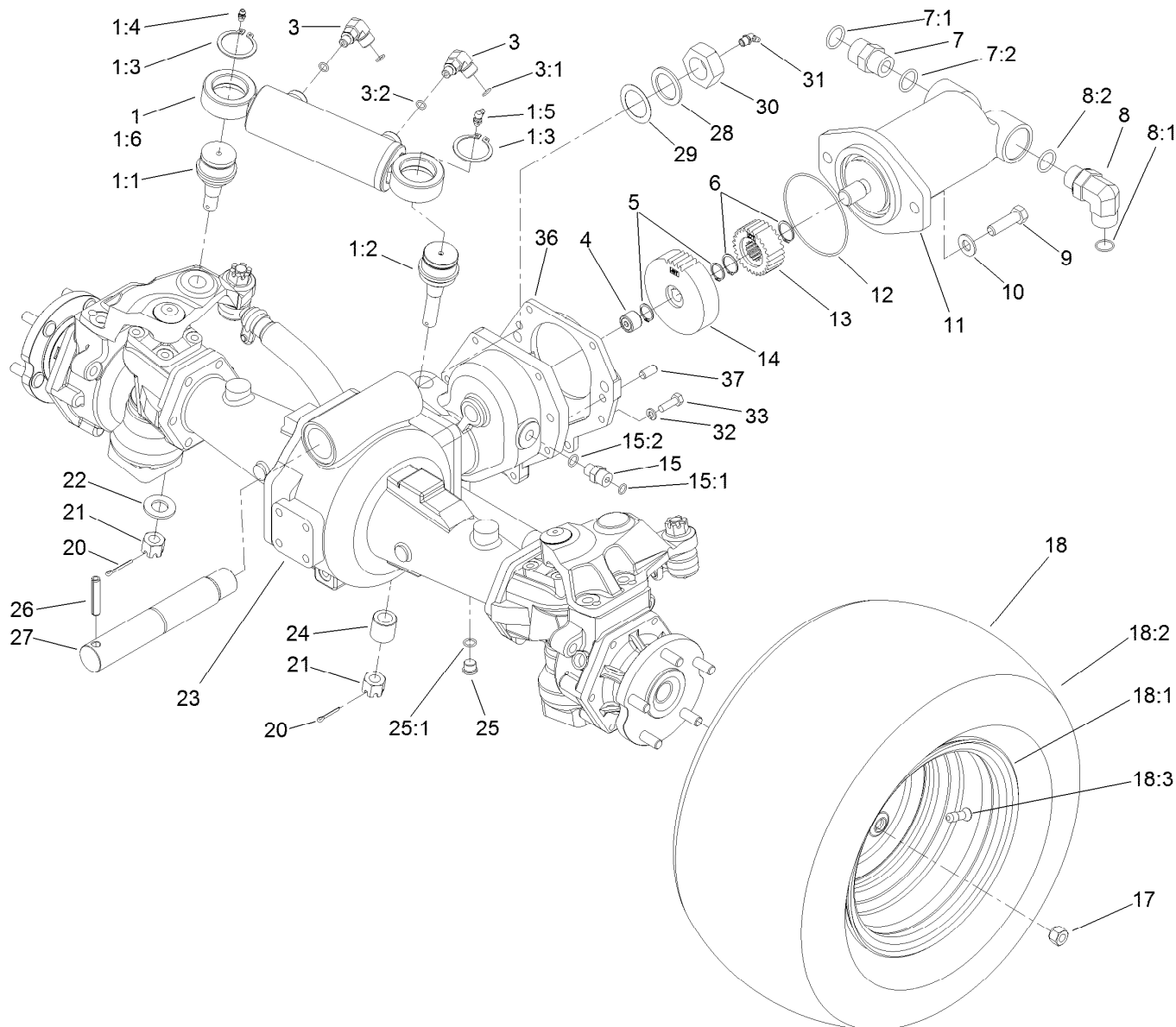
● Not serviced separately



Engine Installation Assembly

Ref.	Part Number	Qty.	Description
1	114-3849	1	Muffler-Turbo
2	33104-030	2	Screw-HHF
3	33104-016	6	Screw-HHF
4	49-2580	1	Clamp-Muffler
5	114-4181	1	Pipe-Exhaust
6	33004-00	4	Nut-HF
7	3256-3	2	Washer-Flat
8	322-9	2	Screw-HH
9	95-5622	1	Hanger-Rubber
10	93-5023	2	Spacer
11	114-3807-03	1	Mount-Engine, RH
12	323-13	4	Screw-HH
13	114-4170-03	1	Mount-Engine, Front RH
14	114-3800	1	Engine ASM
15	3234-11	10	Screw-HHF
16	53-9682	4	Mount-Engine
17	104-8301	14	Nut-HF, NI
18	63-7400	4	Washer-Rebound

Ref.	Part Number	Qty.	Description
19	114-4169-03	1	Mount-Engine, Front, LH
20	43-5950	4	Washer-Lock, Spring
21	43-3210	4	Screw-HH
22	48-8070	5	Washer-Lock
23	42-9250	5	Bolt
24	114-3817-03	1	Mount-Engine, LH
25	114-9781-03	1	Mount-Exhaust
28	117-2370	1	Harness-Ground
29	100-9333	1	Gasket-Muffler
30	43-0090	1	Screw-HH
31	48-9590	1	Washer-Lock
32	3290-378	1	Tie-Cable
33	112-9113-03	1	Mount-Exhaust
34	3290-379	2	Tie-Cable
35	104-8300	2	Nut-HF, NI
36	3255-9	1	Washer-Lock
37	117-2372	1	Harness-Wire, Alternator

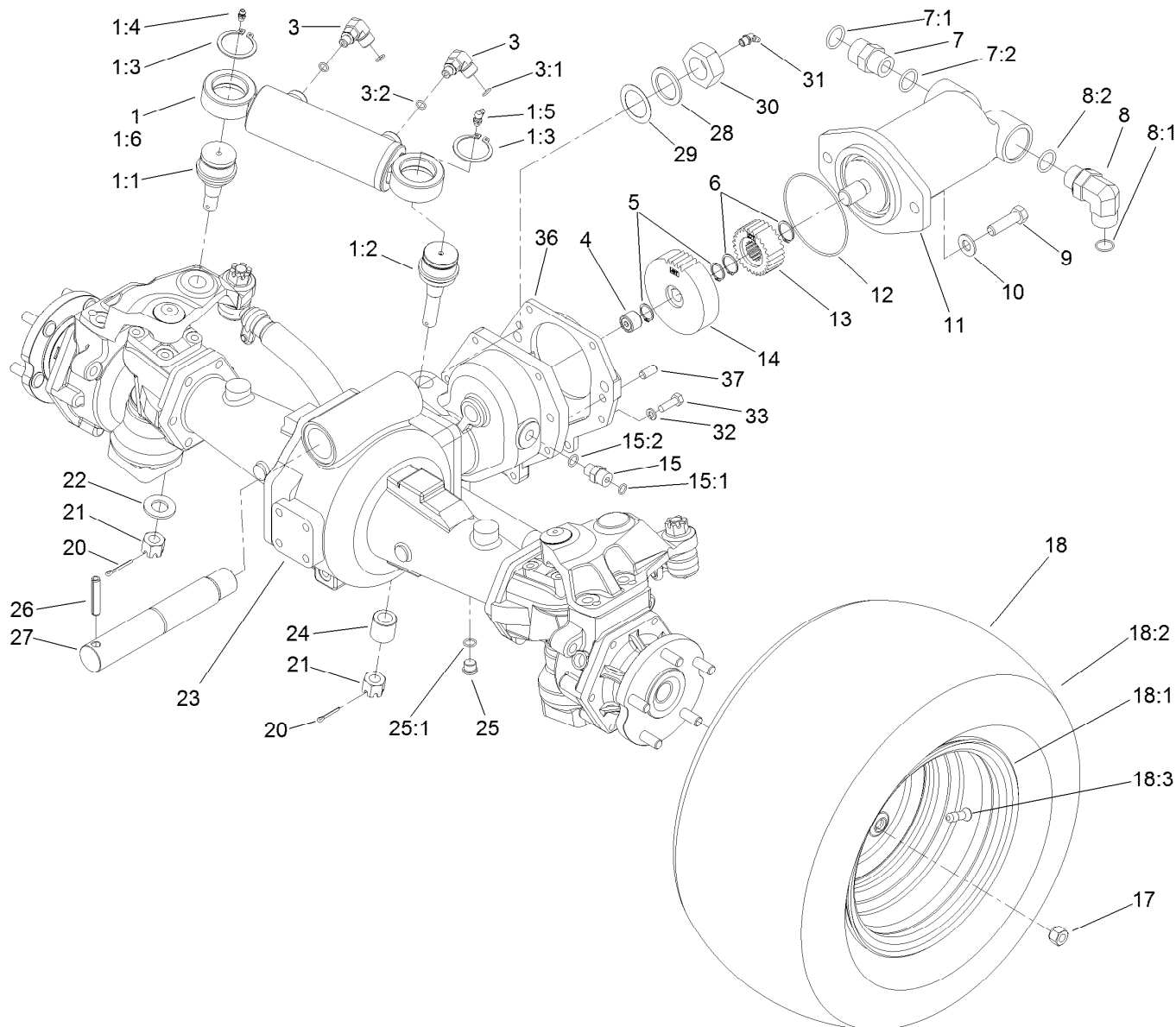


Rear Axle Assembly

Ref.	Part Number	Qty.	Description
1	105-9861	1	Steering Cylinder ASM
1:1	106-6774	1	Joint-Ball
1:2	100-3795	1	Joint-Ball
1:3	32151-104	2	Ring-Retaining, External
1:4	302-5	1	Fitting-Grease
1:5	302-60	1	Fitting-Grease
1:6	107-1976	1	HYD Cylinder ASM
3	340-97	2	Fitting-Elbow, 90 DEG
3:1	237-22	1	O-Ring
3:2	237-78	1	O-Ring
4	74-5700	1	Bearing-Needle, Roller
5	32120-15	2	Ring-Snap, EXT
6	32120-76	2	Ring-Snap, EXT
7	340-9	1	Fitting-STR
7:1	237-58	1	O-Ring
7:2	237-81	1	O-Ring
8	340-142	1	Fitting-Elbow, 90 DEG
8:1	237-58	1	O-Ring

Ref.	Part Number	Qty.	Description
8:2	237-81	1	O-Ring
9	325-7	2	Screw-HH
10	3256-26	2	Washer-Flat
11	105-1219	1	HYD Motor ASM
12	237-166	1	O-Ring
13	104-5663	1	Pinion-28T
14	104-5664	1	Gear-44T
15	340-2	1	Fitting-Straight
15:1	237-22	1	O-Ring
15:2	237-42	1	O-Ring
17	93-5268	10	Nut-Lug
18		2	Rim And Tire ASM ●
18:1	115-1573	1	Rim
18:2	115-1572	1	Tire
18:3	232-27	1	Stem-Valve
20	3272-11	2	Pin-Cotter
21	32136-14	2	Nut-Hst
22	92-5836	1	Washer

● Not serviced separately

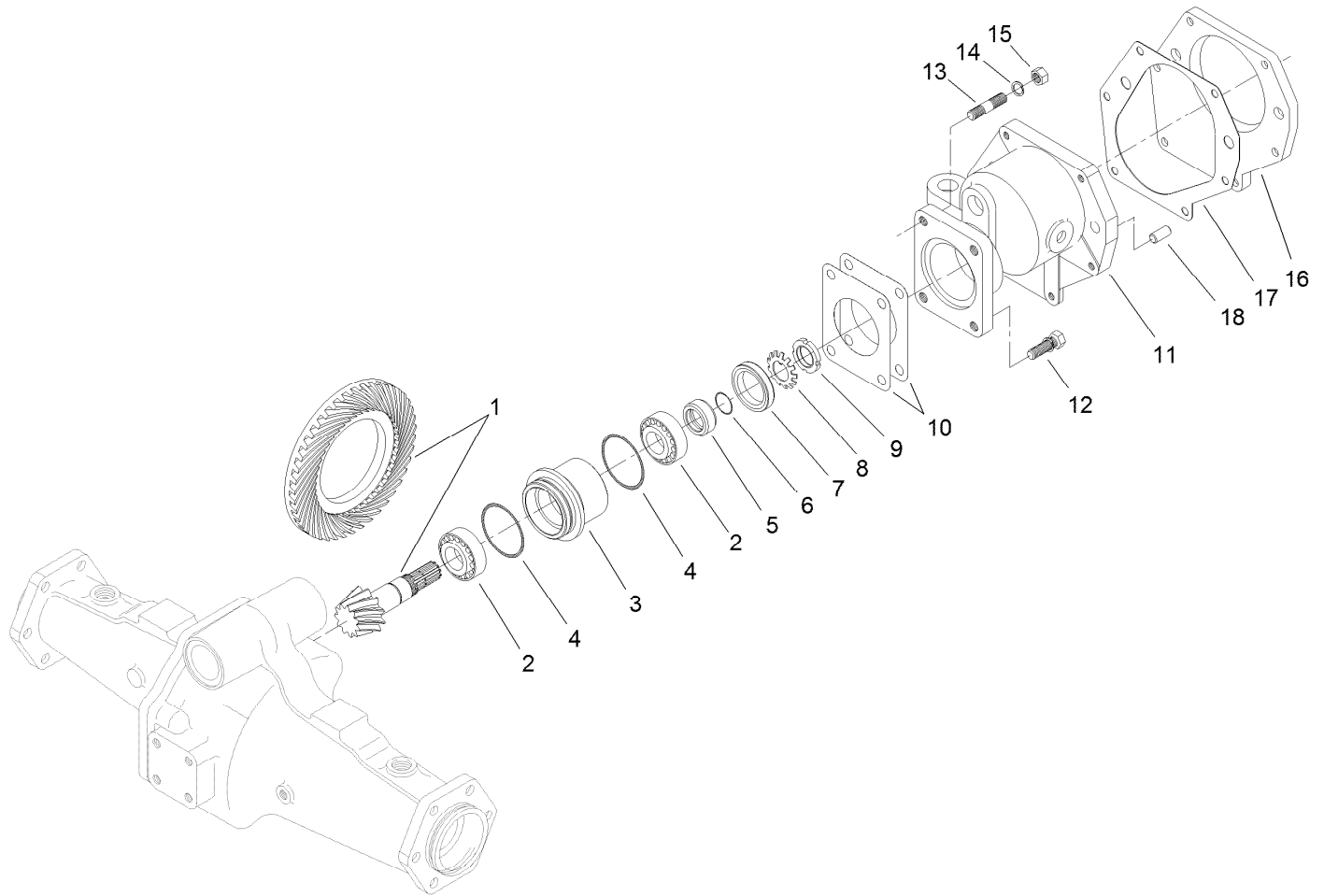


Rear Axle Assembly (continued)

Ref.	Part Number	Qty.	Description
23	110-4750	1	Drive Axle ASM
24	100-3796	1	Spacer-Joint, Ball
25	353-989	1	Plug-Hex, Hollow
25:1	237-42	1	O-Ring
26	32121-110	1	Pin-Roll, Slotted
27	115-9142	1	Pin-Rear Axle
28	92-1765	1	Washer-Thrust

Ref.	Part Number	Qty.	Description
29	98-3867	2	Washer-Thrust
30	3296-68	1	Nut-Lock, NI
31	302-33	1	Fitting-Grease
32	3253-4	6	Washer-Lock
33	33114-025	6	Screw-HH
36	95-7541	1	Plate-Cover
37	104-2353	2	Pin-Dowel

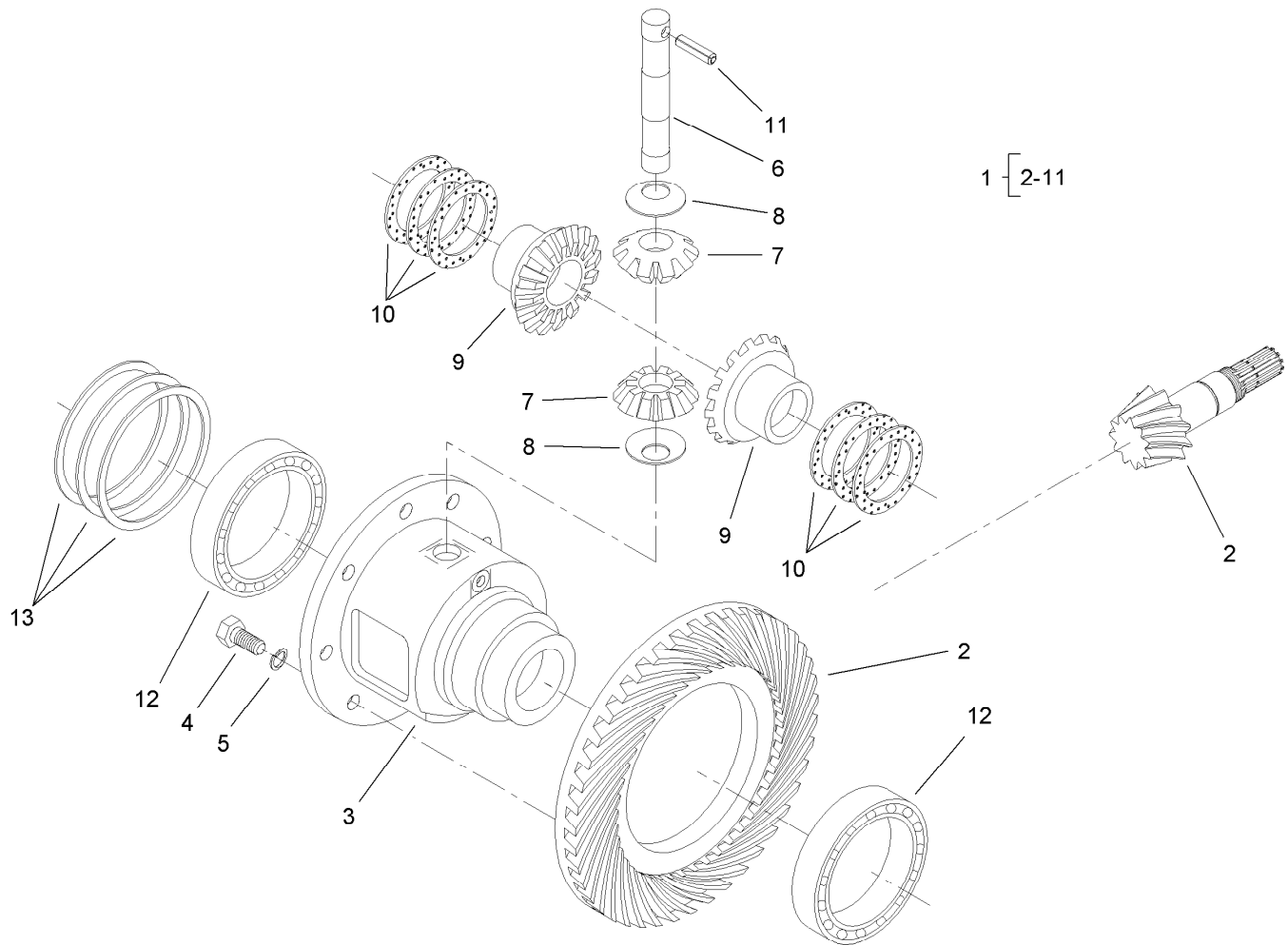
● Not serviced separately



Bevel Pinion Shaft Assembly Rear Axle Assembly No. 110-4750

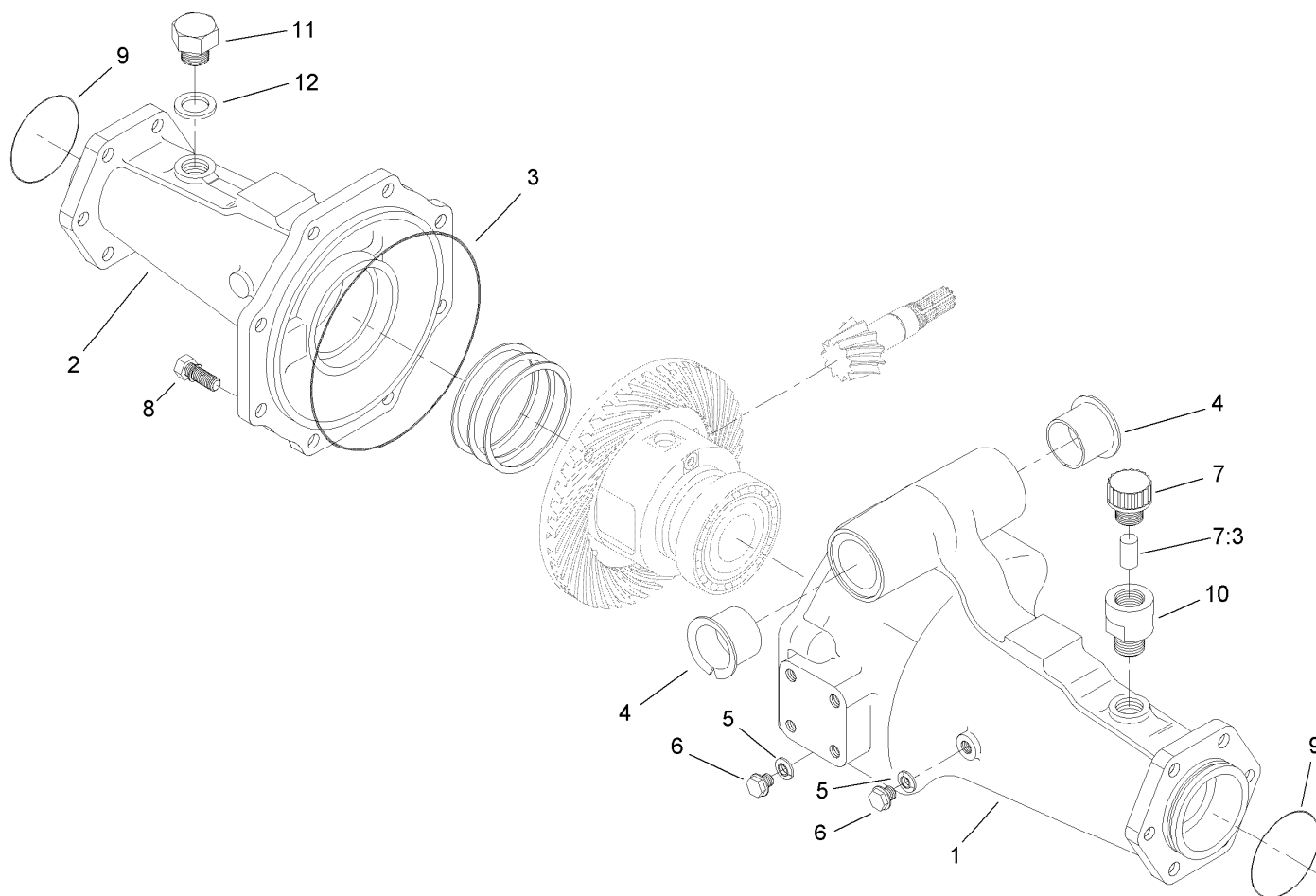
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	106-1093	1	Ring And Pinion Set
2	99-7570	2	Bearing-Roller, Taper
3	95-7534	1	Case-Bearing
4	106-1065	2	O-Ring
5	99-7572	1	Collar-Seal, Oil
6	106-1066	1	O-Ring
7	99-7574	1	Seal-Oil
8	99-7559	1	Washer-Lock
9	99-7560	1	Nut-Lock
10	99-7550	2	Shim 0.1

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
10	99-7551	2	Shim 0.2
11	95-7533	1	Case-Gear
12	99-7575	2	Bolt
13	98-7735	2	Stud
14	99-7527	2	Washer-Spring
15	99-7526	2	Nut
16	95-7541	1	Plate-Cover
17	106-1140	1	Gasket
18	104-2353	2	Pin-Dowel



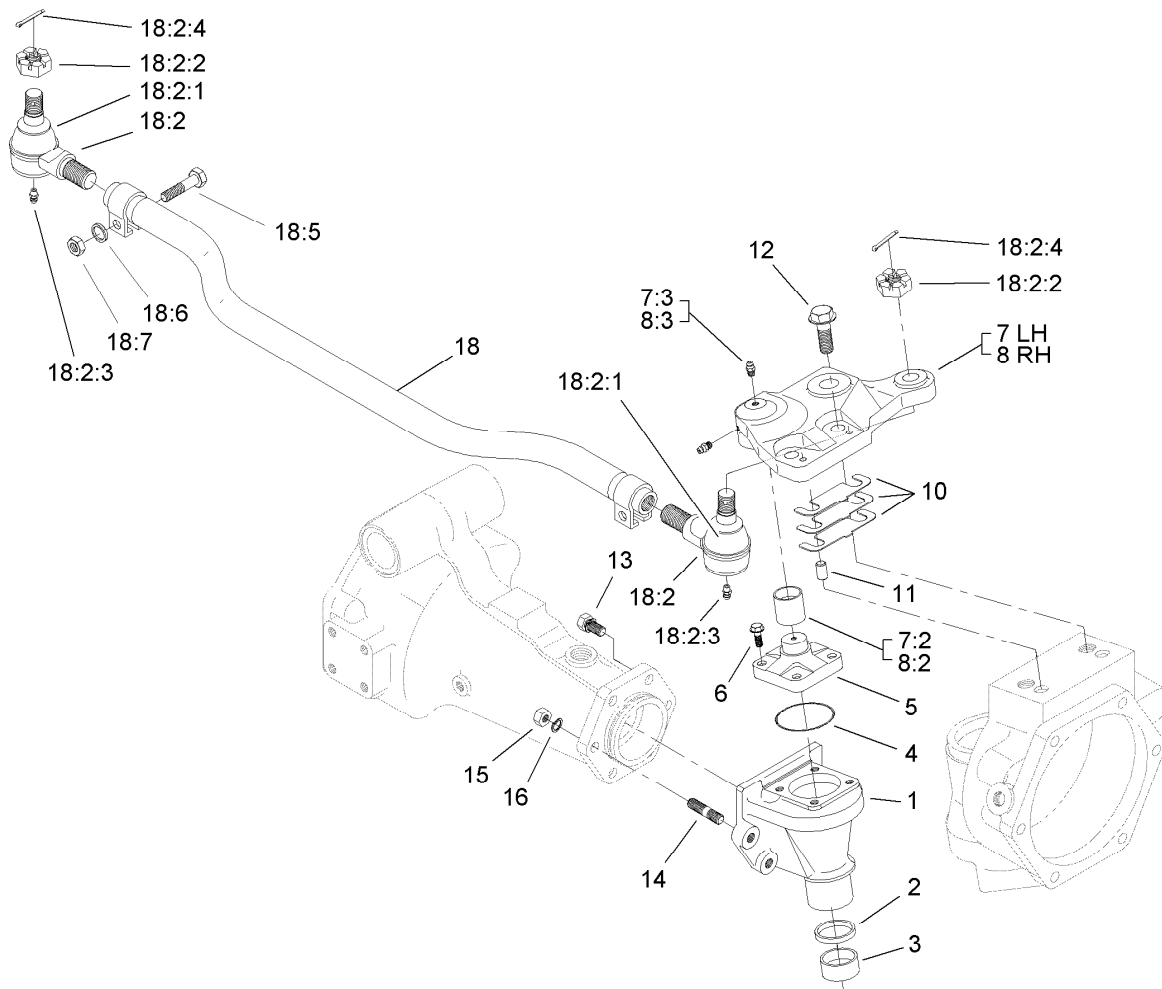
Differential Assembly Rear Axle Assembly No. 110-4750

Ref.	Part Number	Qty.	Description
1	95-7503	1	Differential ASM
2	100-2555	1	Ring And Pinion Matched Set
3	95-7502	1	Case-Differential
4	99-7576	8	Bolt
5	3253-4	8	Washer-Lock
6	99-7578	1	Shaft-Differential
7	99-7579	2	Pinion-Differential
8	99-7580	2	Washer-Differential
9	99-7581	2	Gear-Differential
10	99-7582	2	Washer-Differential
10	99-7583	2	Washer-Differential
10	99-7584	2	Washer-Differential
11	99-7588	1	Pin-Spring
12	99-7562	2	Bearing-Ball
13	99-7585	2	Shim 0.1
13	99-7586	2	Shim 0.2
13	99-7587	2	Shim 0.4



Axle Support Assembly Rear Axle Assembly No. 110-4750

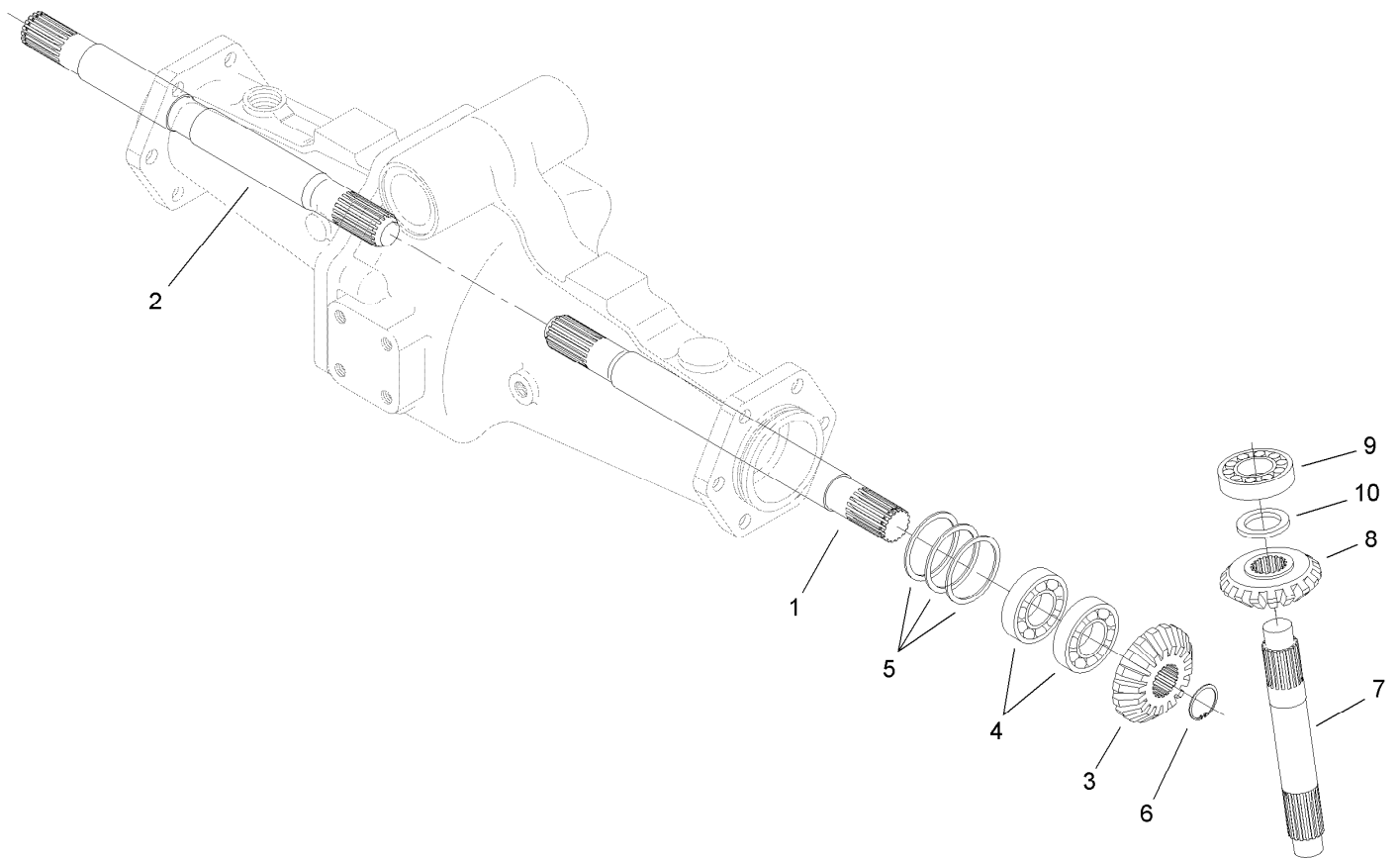
Ref.	Part Number	Qty.	Description
1	95-7508	1	Support-Axle
2	95-7506	1	Support-Axle
3	106-1067	1	O-Ring
4	95-7537	2	Bushing-Flanged
5	99-7590	2	Washer-Seal
6	99-7589	2	Plug
7	110-4812	1	Axle Vent ASM
7:3	110-4815	1	Insert-Filter, Foam
8	99-7592	8	Bolt
9	106-1068	2	O-Ring
10	104-2377	1	Extension-Vent
11	104-8643	1	Plug
12	104-8644	1	O-Ring



Bevel Gear Case Assembly Rear Axle Assembly No. 110-4750

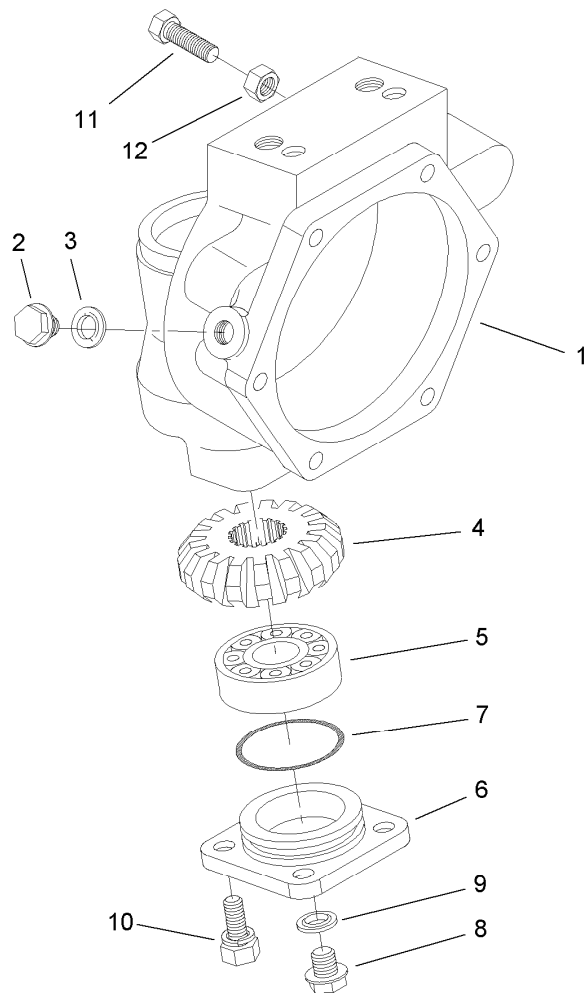
Ref.	Part Number	Qty.	Description
1	110-4752	2	Case-Gear, Bevel
2	110-4754	2	Seal-Oil
3	104-2378	2	Bushing
4	106-1069	2	O-Ring
5	104-2373	2	Knuckle
6	104-2374	8	Bolt
7	100-3768	1	LH Steering Arm ASM
7:2	104-8634	1	Bushing
7:3	106-1104	2	Fitting-Grease
8	100-3766	1	RH Steering Arm ASM
8:2	104-8634	1	Bushing
8:3	106-1104	2	Fitting-Grease
10	95-7547	2	Shim 0.1
10	95-7548	2	Shim 0.2
10	95-7549	2	Shim 0.3
11	99-7597	4	Pin-Dowel

Ref.	Part Number	Qty.	Description
12	104-2375	4	Bolt
13	99-7599	8	Bolt
14	99-7525	4	Stud
15	99-7526	4	Nut
16	99-7527	4	Washer-Spring
18	106-1141	1	Steering Tie Rod ASM
18:2	106-1113	2	Tie Rod End ASM - RH
18:2:1	100-3853	1	Cover-Dust
18:2:2	100-3854	1	Nut-Castle
18:2:3	110-4755	1	Fitting-Grease
18:2:4	3272-11	1	Pin-Cotter
18:5	100-3855	2	Bolt
18:6	99-7527	2	Washer-Spring
18:7	99-7526	2	Nut



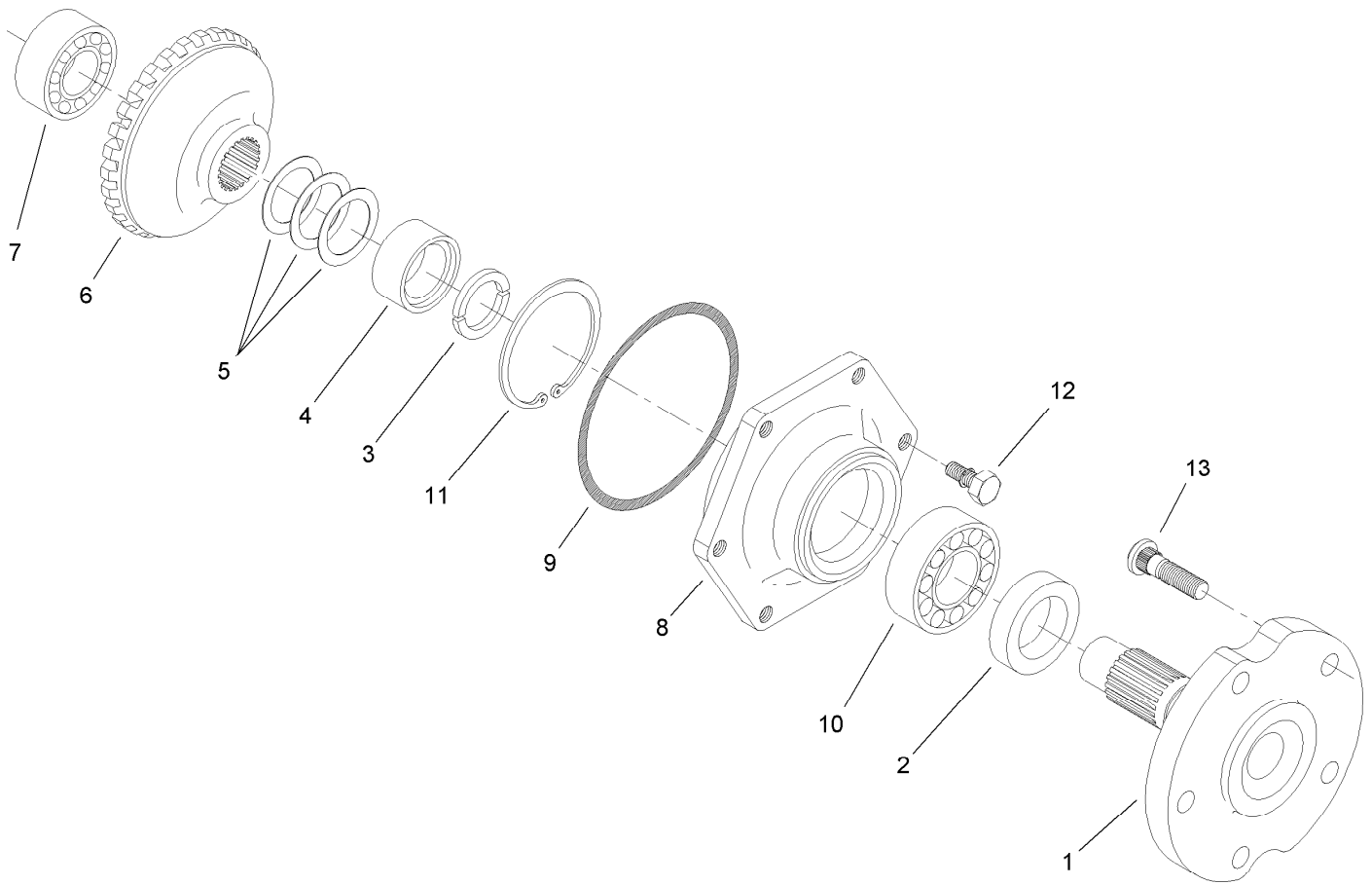
Bevel Gear Shaft Assembly Rear Axle Assembly No. 110-4750

Ref.	Part Number	Qty.	Description
1	95-7509	1	Shaft-Gear, Differential
2	95-7512	1	Shaft-Gear, Differential
3	95-7517	2	Gear-Bevel, 15 Tooth
4	99-7530	4	Bearing-Ball
5	99-7552	2	Shim 0.1
5	99-7553	2	Shim 0.2
5	99-7554	2	Shim 0.5
6	99-7531	2	Clip
7	110-4753	2	Shaft-Gear, Bevel
8	95-7519	2	Gear-Bevel, 17 Tooth
9	99-7532	2	Bearing-Roller, Taper
10	99-7558	2	Collar



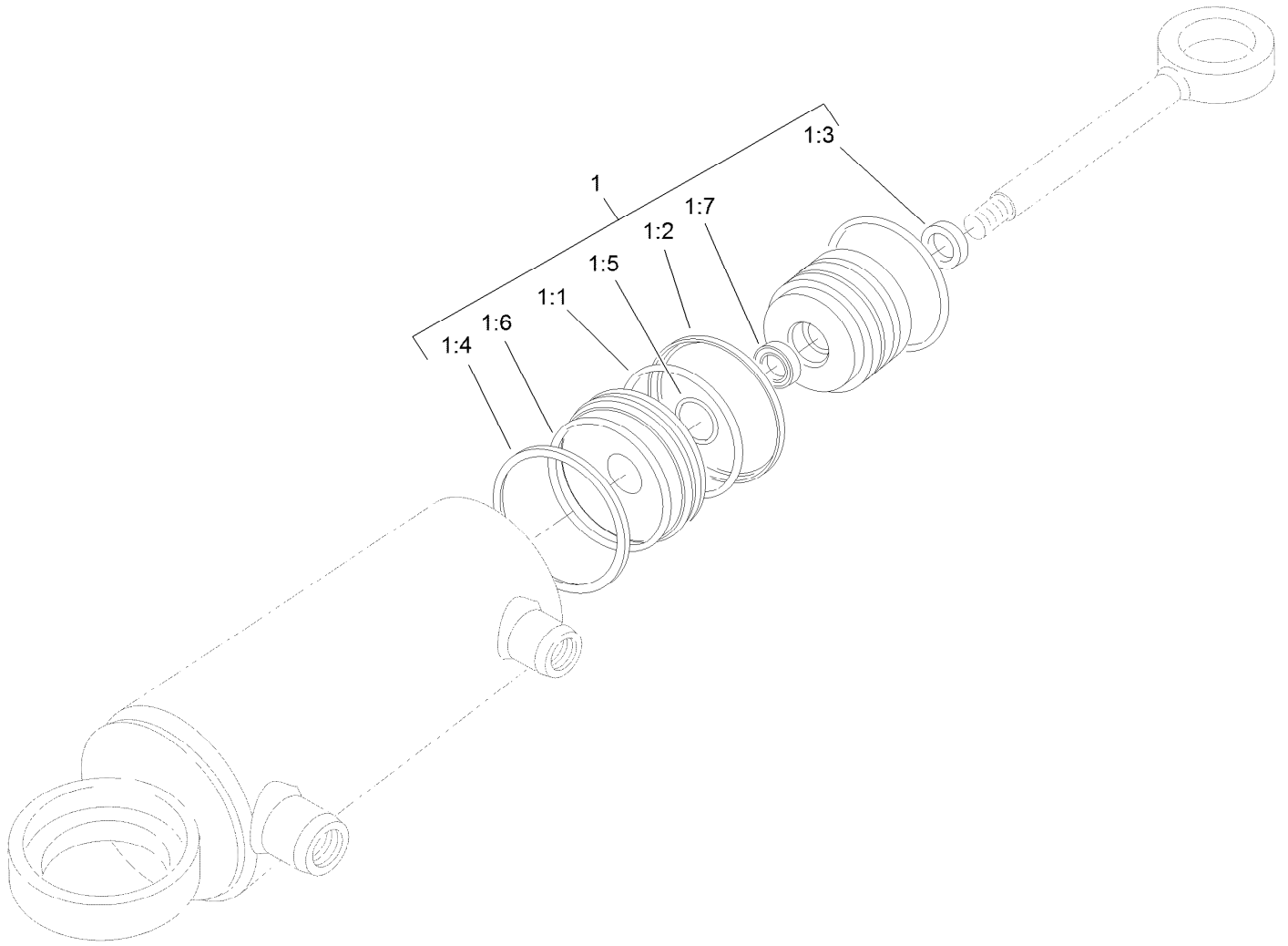
Axle Case Assembly Rear Axle Assembly No. 110-4750

Ref.	Part Number	Qty.	Description
1	110-4751	2	Case-Axle
2	99-7535	2	Plug
3	99-7536	2	Washer-Seal
4	95-7527	2	Gear-Bevel, 17 Tooth
5	99-7532	2	Bearing-Roller, Taper
6	100-2560	2	Cover
7	106-1070	2	O-Ring
8	99-7589	2	Plug
9	99-7590	2	Washer-Seal
10	100-2562	8	Bolt
11	106-1102	2	Bolt-Stop
12	106-1103	2	Nut



Axle Assembly Rear Axle Assembly No. 110-4750

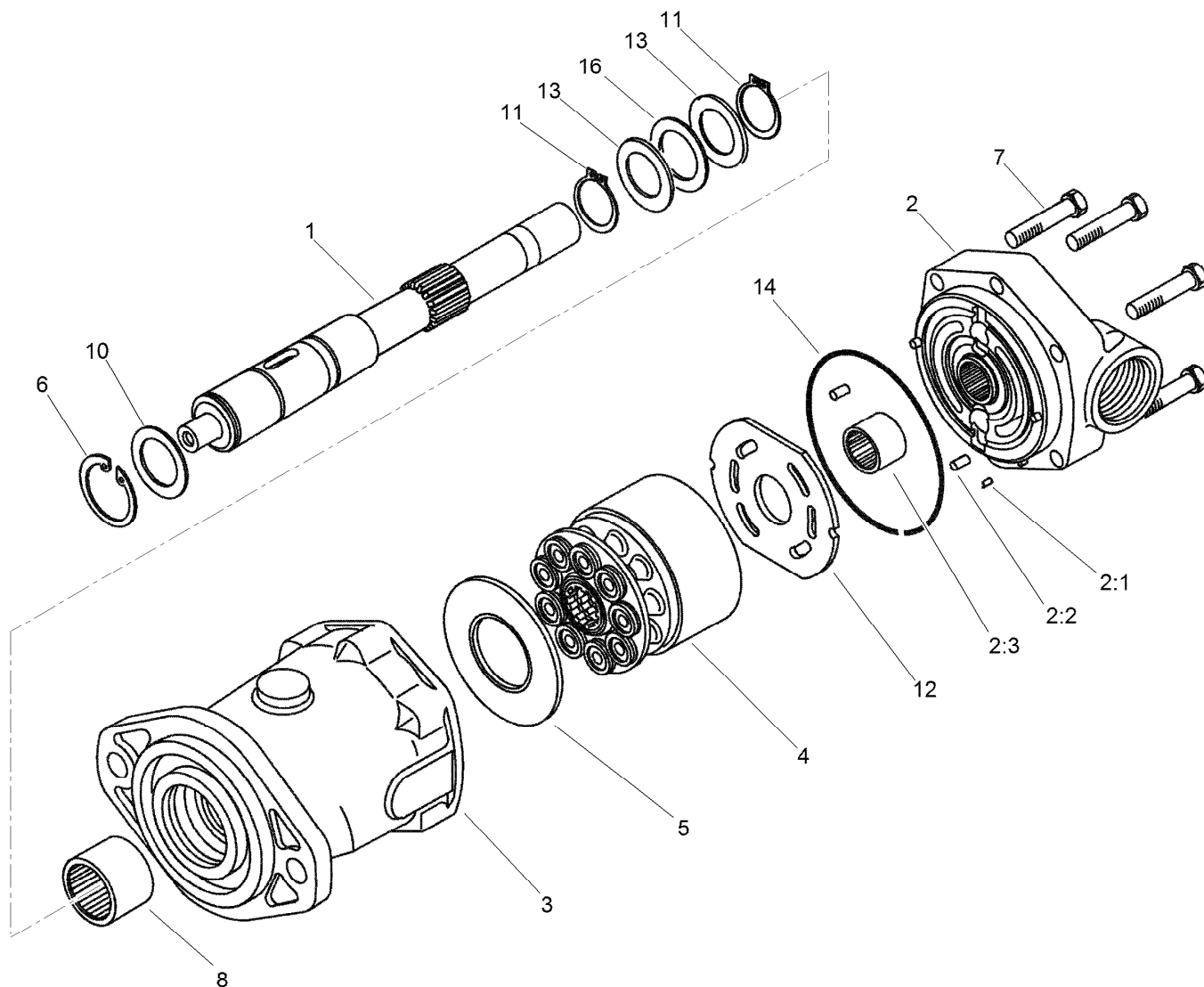
Ref.	Part Number	Qty.	Description
1	95-7522	2	Axle
2	99-7564	2	Seal-Oil
3	95-7544	4	Clip
4	95-7523	2	Spacer
5	99-7555	2	Shim 0.3
5	99-7556	2	Shim 0.2
5	99-7557	2	Shim 0.5
6	95-7524	2	Gear-Bevel, 29 Tooth
7	99-7534	2	Bearing-Ball
8	95-7521	2	Cover-Axle
9	106-1071	2	O-Ring
10	99-7561	2	Bearing-Ball
11	99-7539	2	Clip
12	99-7596	12	Bolt
13	99-7563	10	Stud



Hydraulic Cylinder Assembly No. 107-1976

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	107-0245	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Back-Up ●
1:3		1	Wiper ●
1:4		1	Seal ●
1:5		1	O-Ring ●
1:6		1	O-Ring ●
1:7		1	Seal ●

● Not serviced separately

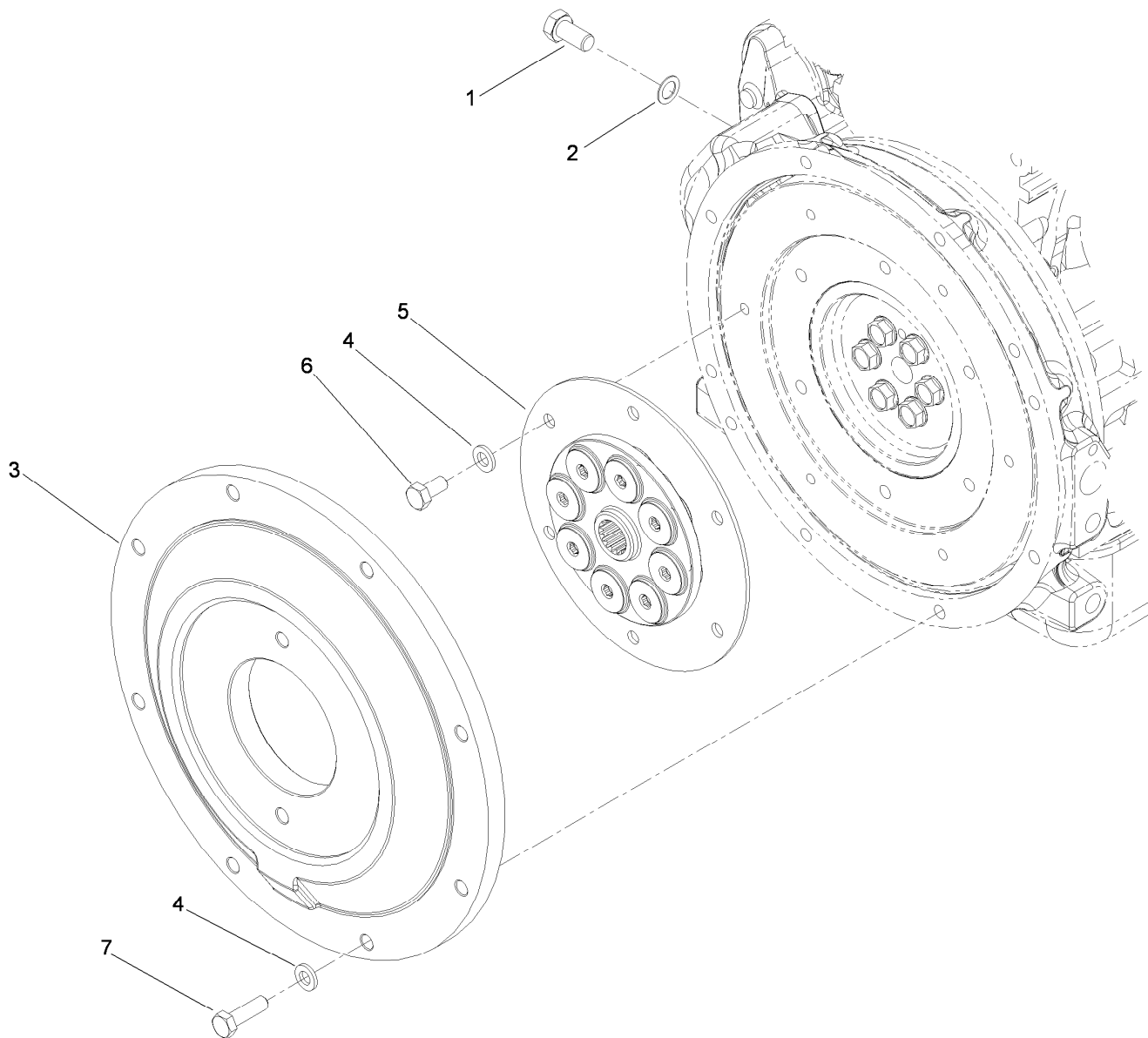


Piston Motor Assembly No. 105-1219

Ref.	Part Number	Qty.	Description
1	105-2853	1	Shaft-Drive
2	100-2551	1	Backplate
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring

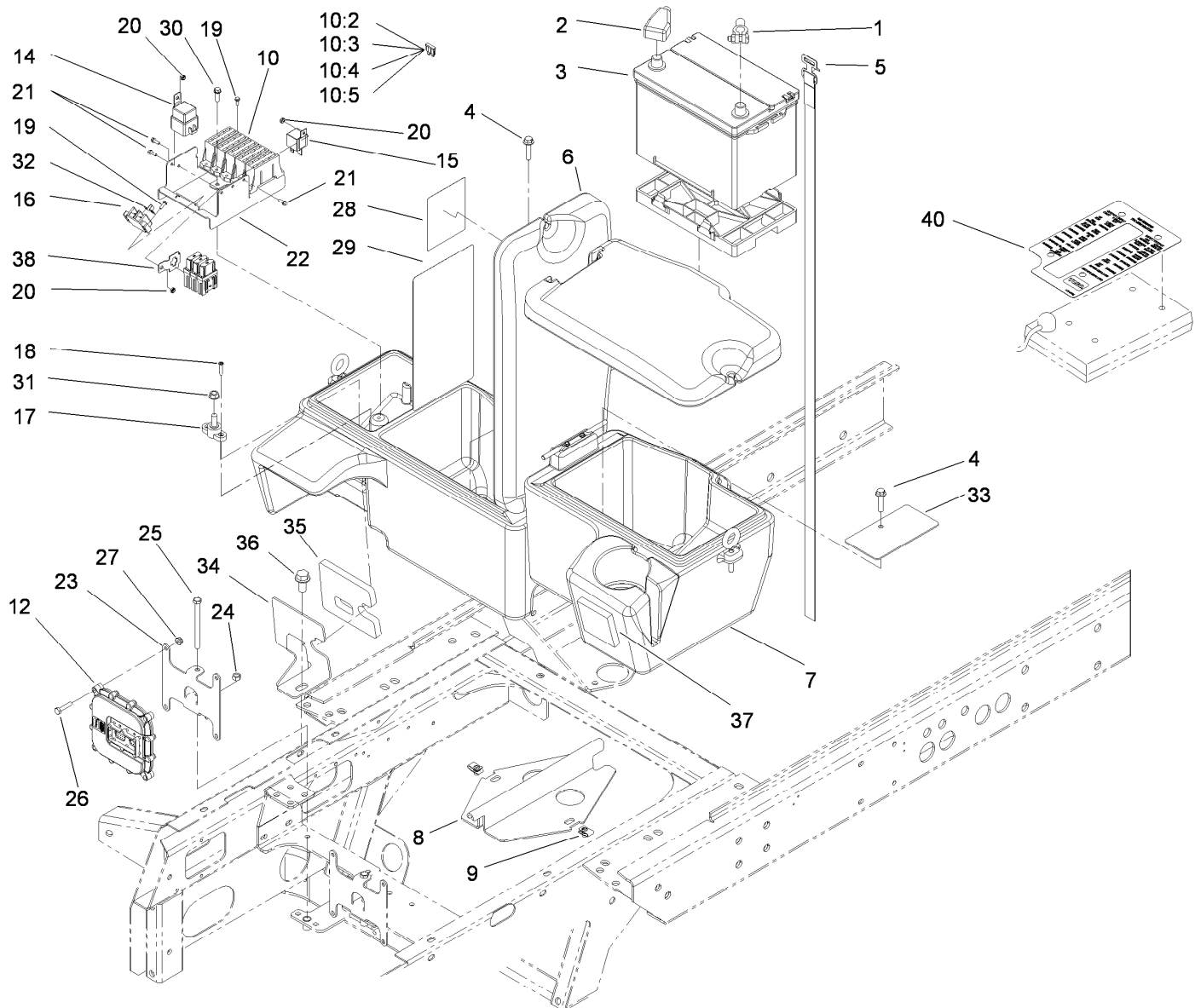
Ref.	Part Number	Qty.	Description
7	94-3002	6	Screw-Cap
8	63-4390	1	Bearing-Needle
10	76-7020	1	Spacer
11	76-7000	2	Ring-Retaining
12	94-3003	1	Plate-Valve
13	76-6950	2	Race-Thrust
14	76-6980	1	O-Ring
16	76-6960	1	Bearing-Thrust

● Not serviced separately



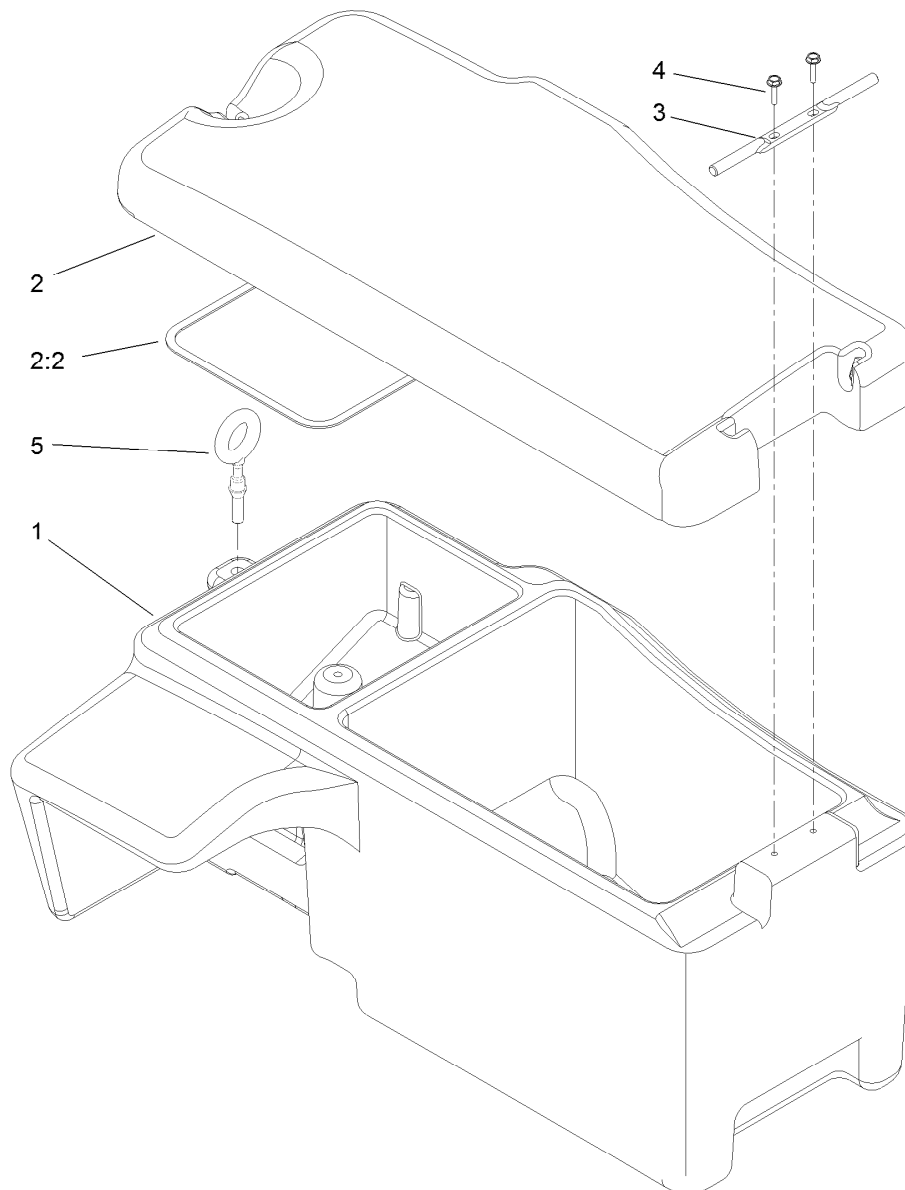
Flywheel Coupler Assembly

Ref.	Part Number	Qty.	Description
1	42-9250	1	Bolt
2	3255-2	1	Washer-Lock, EXT
3	115-6657-03	1	Plate-Flywheel
4	107-1413	14	Washer-Hardened
5	114-3848	1	Coupler-Spring, Flywheel
6	99-5130	6	Screw-HH
7	117-5663	8	Screw-HH



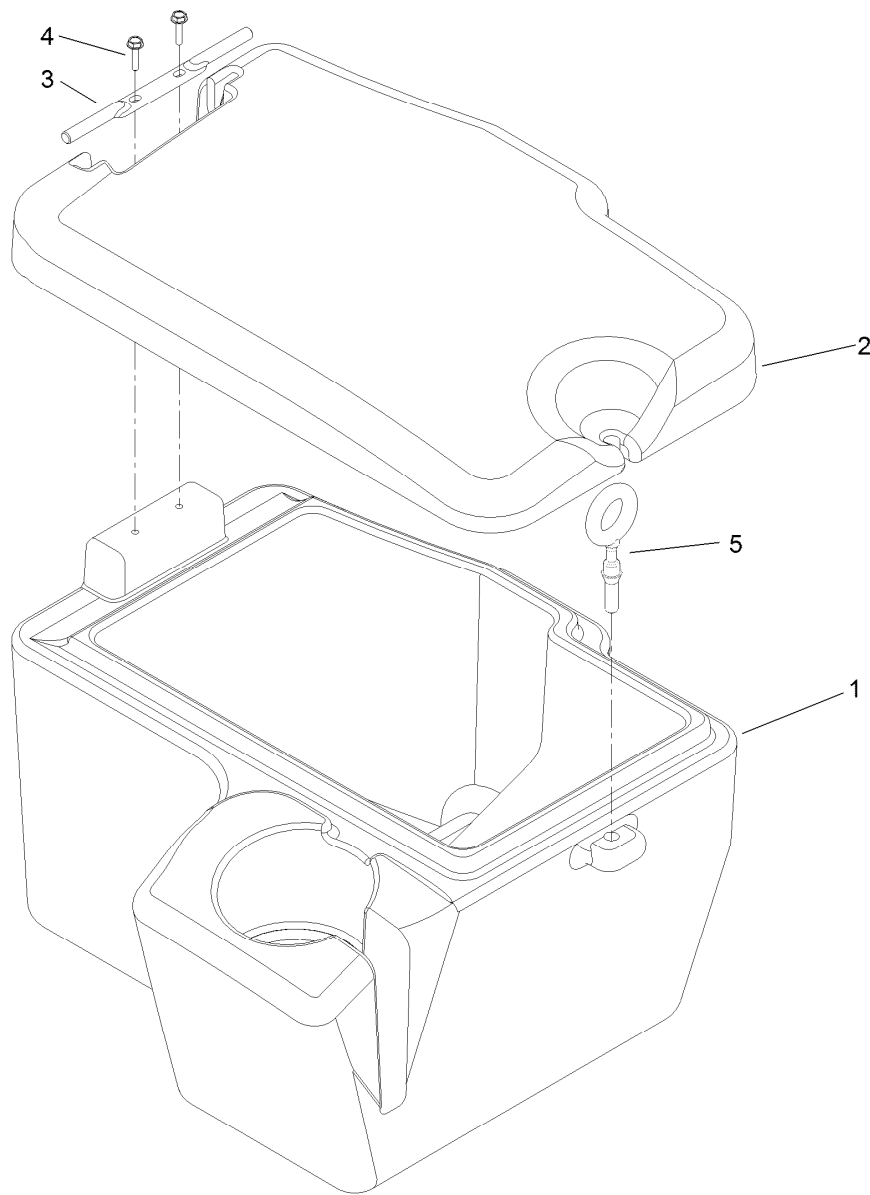
Power Center, Battery and Storage Box Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	117-2377	1	Cable-Battery, Negative	20	3296-54	5	Nut-Lock
2	117-2376	1	Cable-Battery, Positive	21	112-3169	5	Screw-HHF, Serrated
3	106-5190	1	Battery	22	115-4356-03	1	Mount-Fuse Block
4	115-1794	2	Screw-HHF	23	117-2360-03	1	Bracket-Mount, Controller
5	3339-175	1	Strapping-Web	24	3217-6	1	Nut-Hex
6	115-9100	1	Box-Storage, Battery	25	322-19	1	Screw-HH
7	115-9101	1	Box-Storage	26	321-8	4	Screw-HH
8	115-4387-03	1	Support-Box, Storage	27	104-7201	4	Nut-HF
9	112-3306	2	Nut	28	117-4761	1	Decal-Fuse
10	115-9106	1	Harness-Power Center	29	117-4758	1	Decal-Service
10:2	94-6710	2	Fuse-2 Amp	30	46-8091	1	Screw-HWH
10:3	114241	6	Fuse-Blade, 7.5 Amp	31	3290-357	1	Nut-HHF, Whiz
10:4	218-578	4	Fuse-Blade, 10 Amp	32	42863	1	Strip-Jumper
10:5	109101	1	Fuse-Blade, 20 Amp	33	117-4768-03	1	Plate-Box, Storage
12	114-3321	1	Controller-Tec	34	117-4774-03	1	Clamp
14	99-7430	1	Relay-Mini	35	117-4775	1	Seal-Battery Box
15	99-7435	3	Relay	36	3234-6	1	Screw-HHF
16	42862	1	Block-Terminal, Ground	37	117-4783	2	Seal-Foam
17	110-8822	1	Block-Junction	38	114-5502	1	Clip-Fuse
18	93-0231	2	Screw-PPH	40	117-4795	1	Decal-Diagnostic, Controller
19	32144-87	6	Screw-HWHTF				



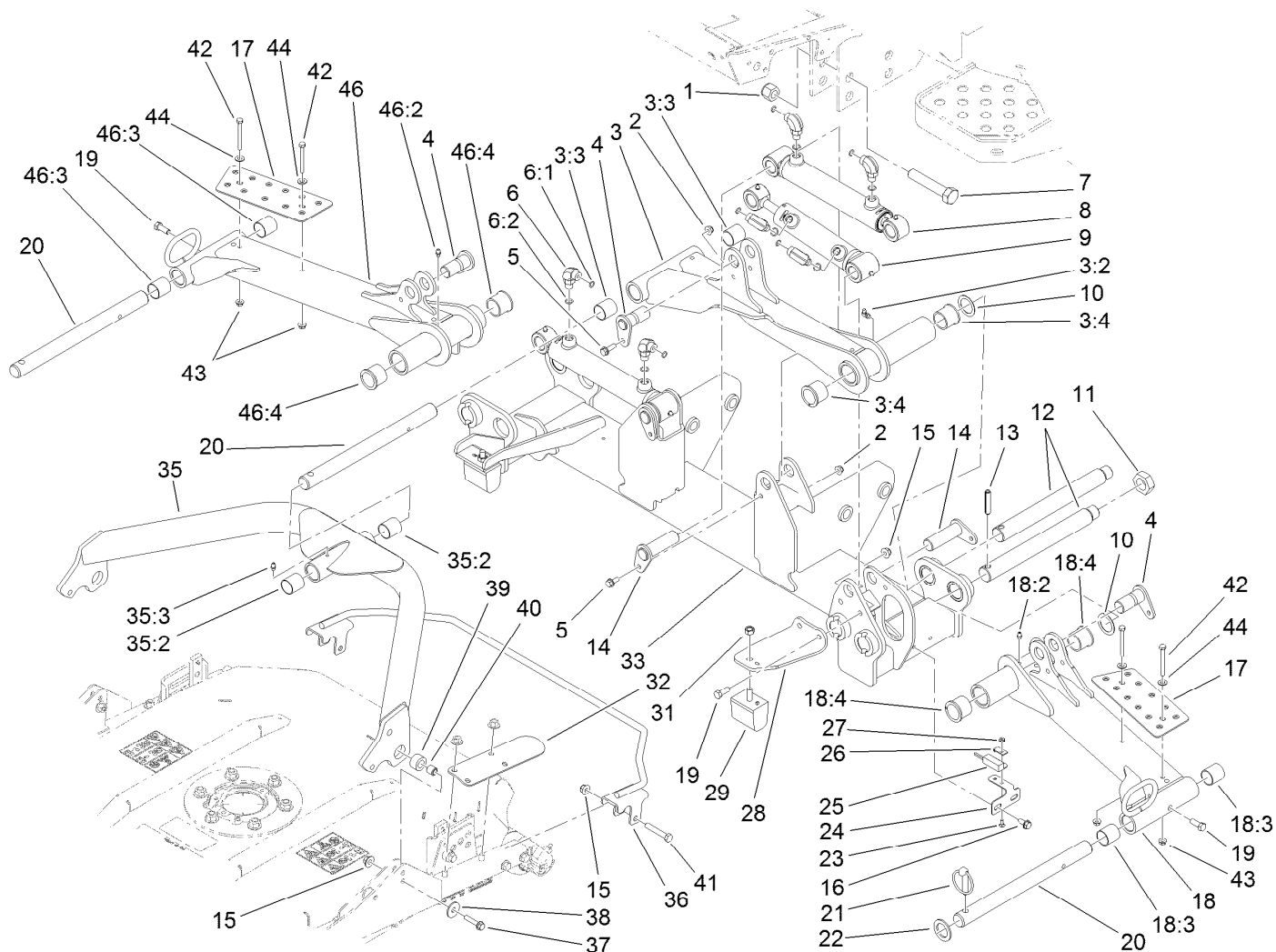
Battery Storage Box Assembly No. 115-9100

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	114-8124	1	Box-Storage, RH
2	115-4368	1	Cover ASM
2:2	115-4367	1	Seal-Cover
3	114-8132	1	Hinge-Cover
4	98-1375	2	Screw-HWH
5	115-4366	1	Latch-Rubber



Storage Box Assembly No. 115-9101

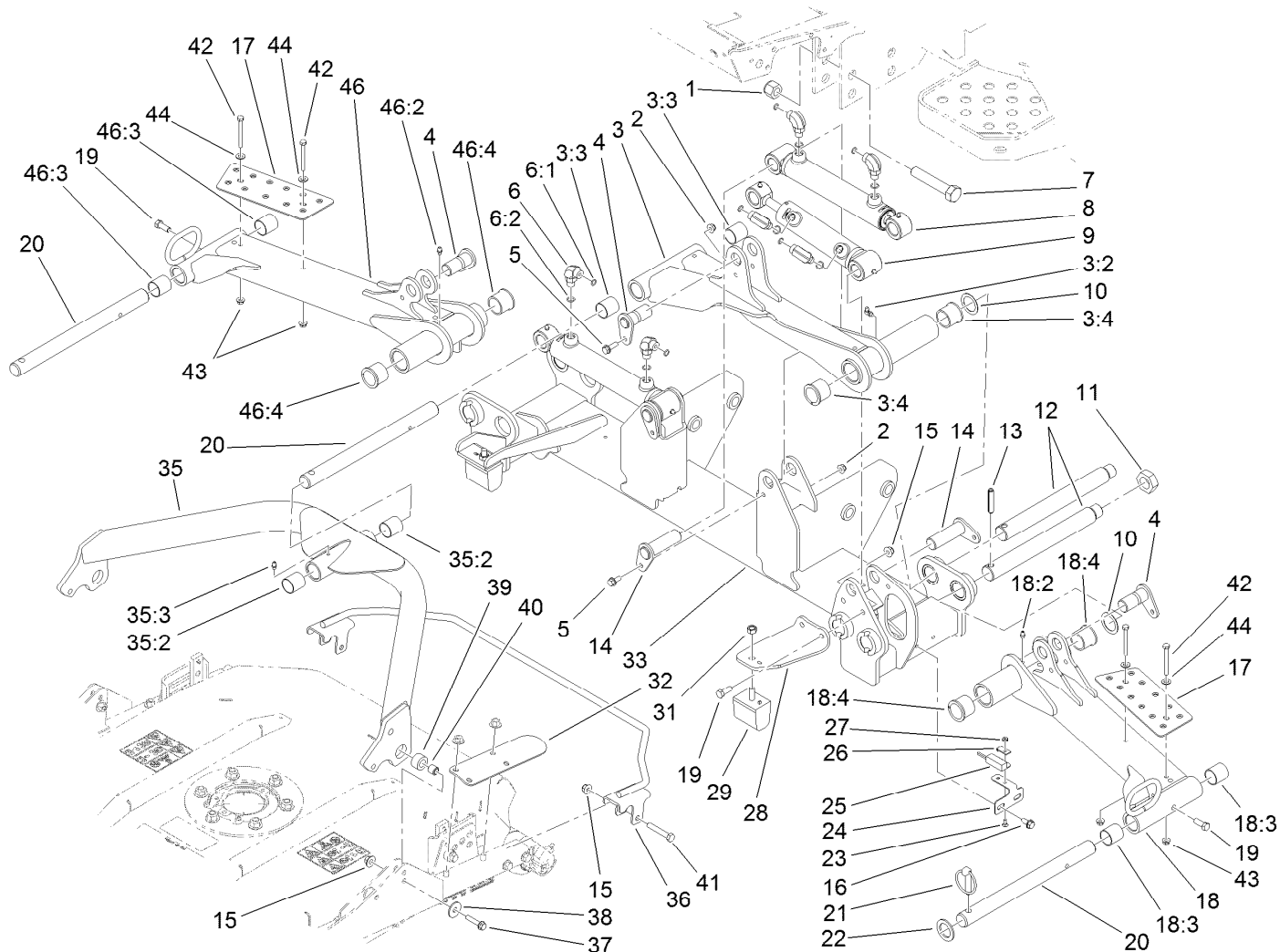
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	114-8123	1	Box-Storage, LH
2	114-8125	1	Cover-Storage Box, LH
3	114-8132	1	Hinge-Cover
4	98-1375	2	Screw-HWH
5	115-4366	1	Latch-Rubber



Front Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	3296-51	4	Nut-Lock, NI
2	104-8300	3	Nut-HF, NI
3	108-4032	1	No. 1 Lift Arm ASM
3:2	302-60	1	Fitting-Grease
3:3	108-4000	2	Bushing
3:4	104-0015	2	Bushing-Flange
4	104-5525	3	Pin-Cylinder
5	3234-17	3	Screw-HHF
6	340-77	6	Fitting-Elbow, 90 DEG
6:1	237-22	1	O-Ring
6:2	237-42	1	O-Ring
7	328-7	4	Screw-HH
8	107-1979	2	Lift Cylinder ASM
9	107-1980	1	Lift Cylinder ASM
10	76-2980	6	Washer-Thrust
11	3296-49	3	Nut-Lock, NI
12	95-7158	3	Pin-Pivot
13	32121-110	3	Pin-Roll, Slotted
14	105-9889	3	Pin-Cylinder
15	104-8301	20	Nut-HF, NI
16	32104-32	4	Screw-HWH

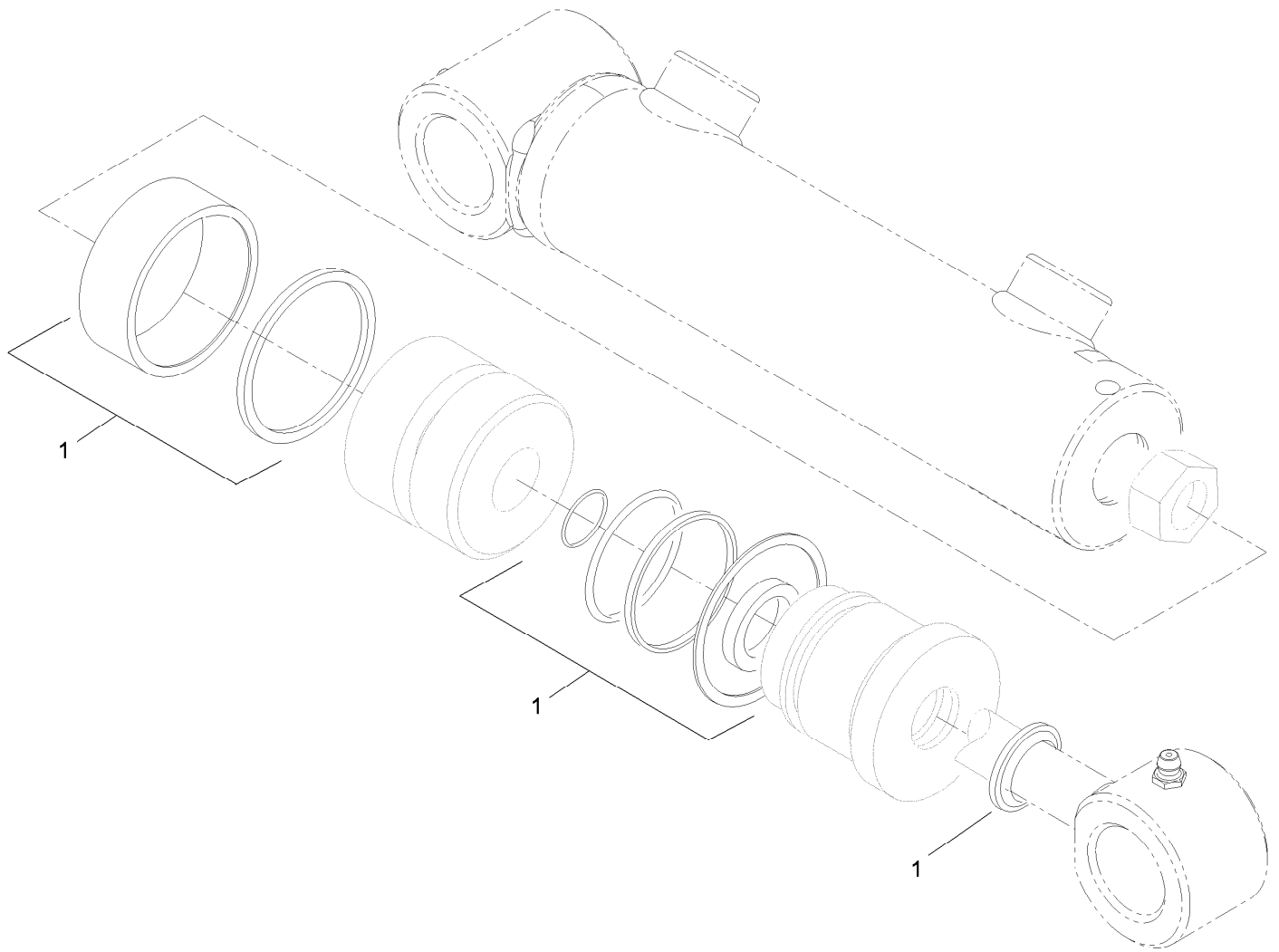
Ref.	Part Number	Qty.	Description
17	105-3987-03	2	Plate-Skid
18	108-4033	1	No. 4 Lift Arm ASM
18:2	302-5	1	Fitting-Grease
18:3	108-4000	2	Bushing
18:4	104-0015	2	Bushing-Flange
19	323-7	5	Screw-HH
20	108-4023	3	Shaft-Carrier, Pivot
21	283-71	3	Pin-Lynch
22	3-6781	3	Washer-Thrust
23	104-1450	2	Bolt-CARR
24	104-5585	2	Bracket-Switch
25	106-9288	2	Sensor-Proximity, Ferrous
26	100-4872	2	Plate-Switch, Neutral
27	32149-7	2	Nut-Keps
28	104-5689-03	1	Bracket-Support, Bumper
29	87-3470	2	Bumper
31	33025-00	2	Nut-Lock, NI
32	105-9831-03	2	Bracket-Bumper, No. 1
33	104-5680-03	1	Frame-Carrier, Front
35	115-3453	5	Carrier Frame ASM
35:2	108-4000	2	Bushing



Front Lift Arm Assembly (continued)

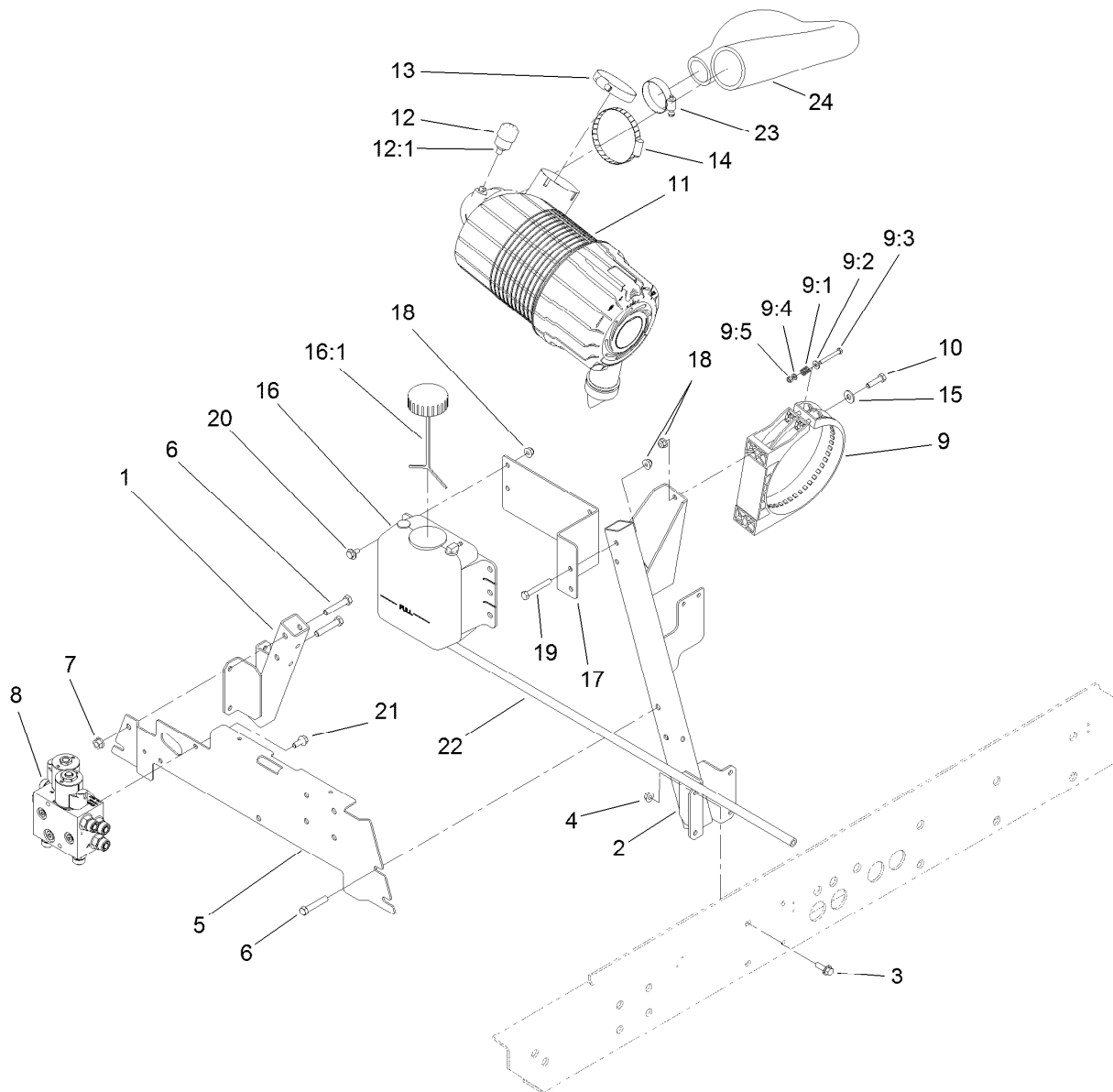
Ref.	Part Number	Qty.	Description
35:3	302-5	1	Fitting-Grease
36	112-9900-03	4	Guard-Foot
37	323-52	10	Screw-HH
38	93-8806	10	Washer-Hardened
39	105-9823	10	Bushing-Carrier
40	105-9822	10	Spacer
41	323-11	8	Screw-HH

Ref.	Part Number	Qty.	Description
42	321-15	4	Screw-HH
43	32128-33	4	Nut-HF
44	3256-23	4	Washer-Plain
46	108-4034	1	No. 5 Lift Arm ASM
46:2	302-5	1	Fitting-Grease
46:3	108-4000	2	Bushing
46:4	104-0015	2	Bushing-Flange



Hydraulic Cylinder Assembly No. 107-1980

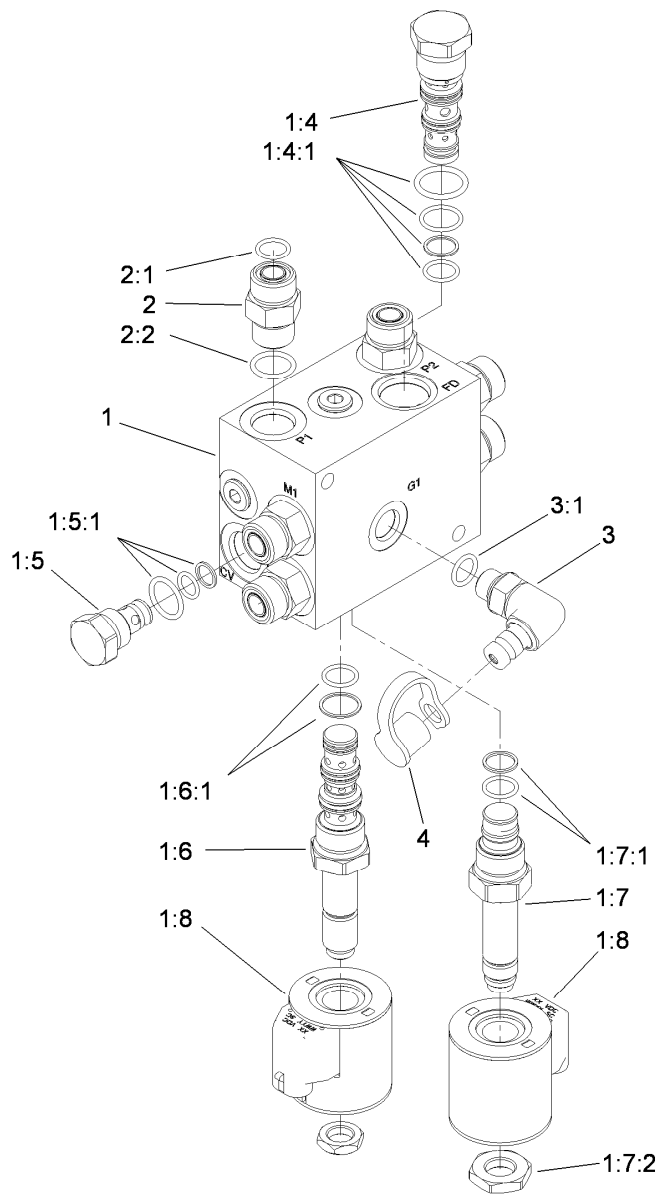
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	107-1977	1	Seal Kit



Air Cleaner and Manifold Assembly

Ref.	Part Number	Qty.	Description
1	104-5420-03	1	Support-Battery
2	104-5417-03	1	Bracket-Conditioner, Air
3	3234-29	8	Screw-HHF
4	32128-20	8	Nut-HF
5	114-8134-03	1	Bracket-Support
6	323-10	4	Screw-HH
7	32128-21	4	Nut-HF
8	117-2395	1	Fan Drive Manifold ASM
9	99-5414	1	Strap-Cleaner, Air
9:1	108-1512	2	Spring
9:2	3256-22	2	Washer-Flat
9:3	33113-050	2	Screw-HH
9:4	33093-00	2	Washer-Flat
9:5	33023-00	2	Nut-Lock
10	322-6	2	Screw-HH
11	99-5410	1	Air Cleaner ASM

Ref.	Part Number	Qty.	Description
12	104-3563	1	Indicator
12:1	94-1416	1	Adapter-Indicator
13	2412-125	1	Clamp-Hose
14	2412-110	1	Clamp-Band/Screw
15	3256-3	2	Washer-Flat
16	104-2276	1	Reservoir-Coolant
16:1	87-7050	1	Cap-Reservoir
17	114-4187-03	1	Bracket-Tank
18	104-8300	8	Nut-HF, NI
19	322-11	2	Screw-HH
20	3234-47	4	Screw-HHF
21	100-1668	2	Screw-HHF
22	110-3258	1	Hose-Fuel
23	2412-92	1	Clamp-Hose
24	114-3838	1	Hose-Air Cleaner

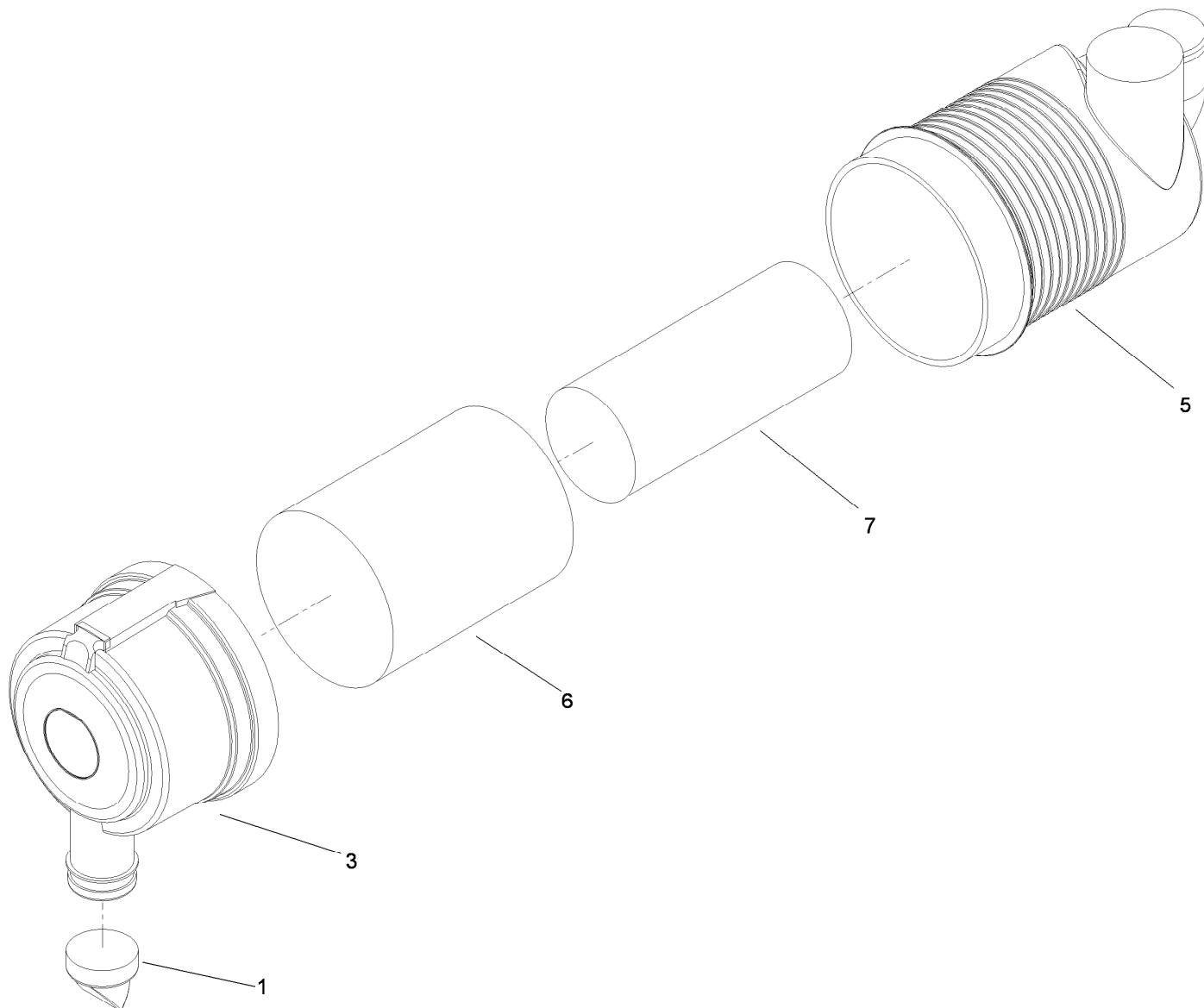


Manifold Assembly No. 117-2395

Ref.	Part Number	Qty.	Description
1		1	Fan Drive Manifold ASM ●
1:4	115-3024	1	Valve-Flow Divider/Combiner
1:4:1	115-3025	1	Seal Kit
1:5	105-9321	1	Check Valve ASM
1:5:1	105-9156	1	Seal Kit
1:6	115-3023	1	Solenoid Valve ASM
1:6:1	110-8908	1	Spool Valve Seal Kit
1:7	115-3022	1	Relief-Proportional

Ref.	Part Number	Qty.	Description
1:7:1	110-6316	1	Seal Kit
1:7:2	119-7715	1	Nut-Coil
1:8	110-6344	2	Coil-12V, DC
2	340-4	7	Fitting-Straight
2:1	237-30	1	O-Ring
2:2	237-79	1	O-Ring
3	115-9148	1	Fitting-Elbow-90
3:1	237-42	1	O-Ring
4	354-79	1	Cap-Dust

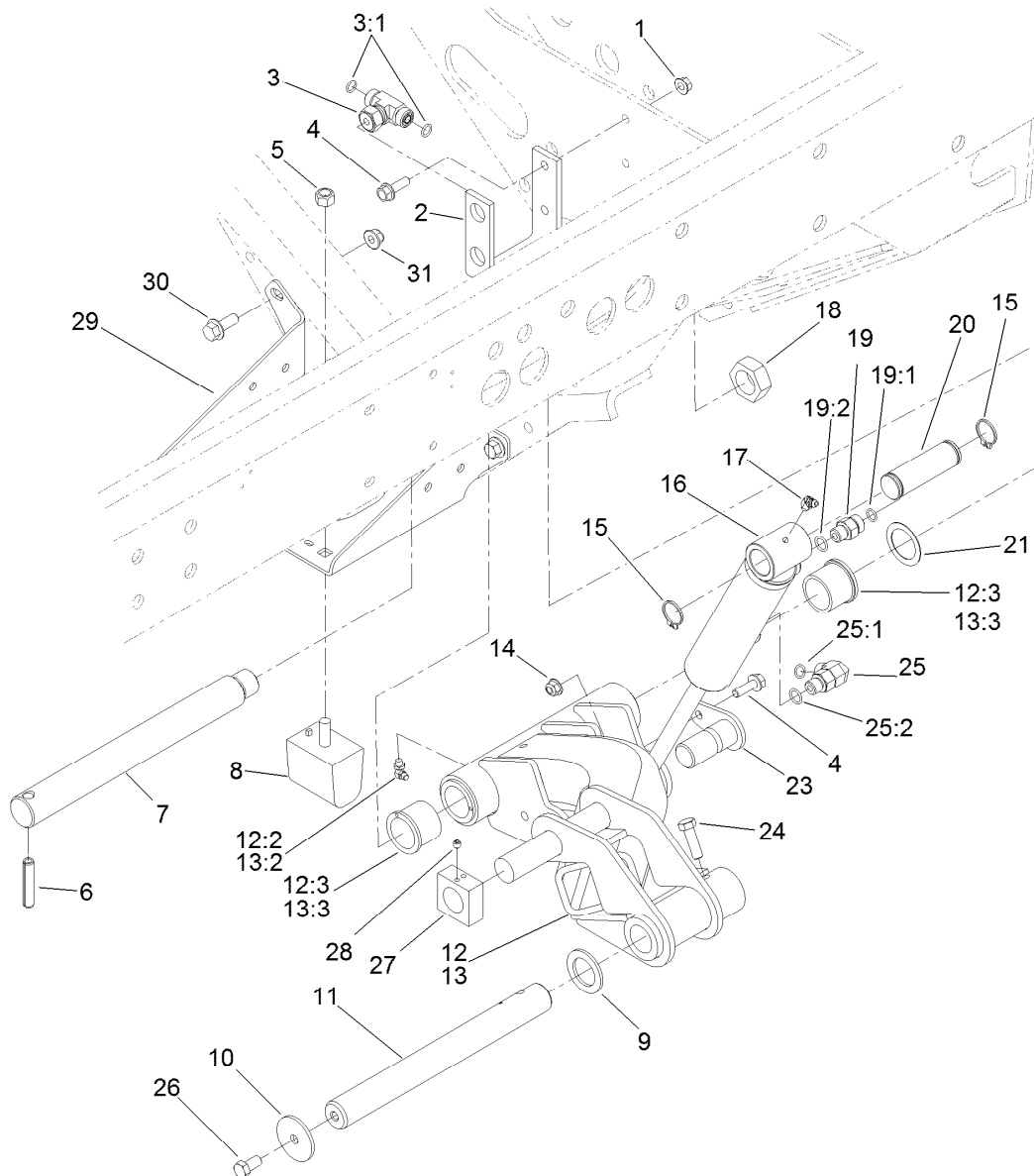
● Not serviced separately



Air Cleaner Assembly No. 99-5410

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	104-4258	1	Valve-Vacuator
3	104-4259	1	Cover
5		1	Body ASM ●
6	108-3814	1	Filter-Air
7	108-3816	1	Filter-Air

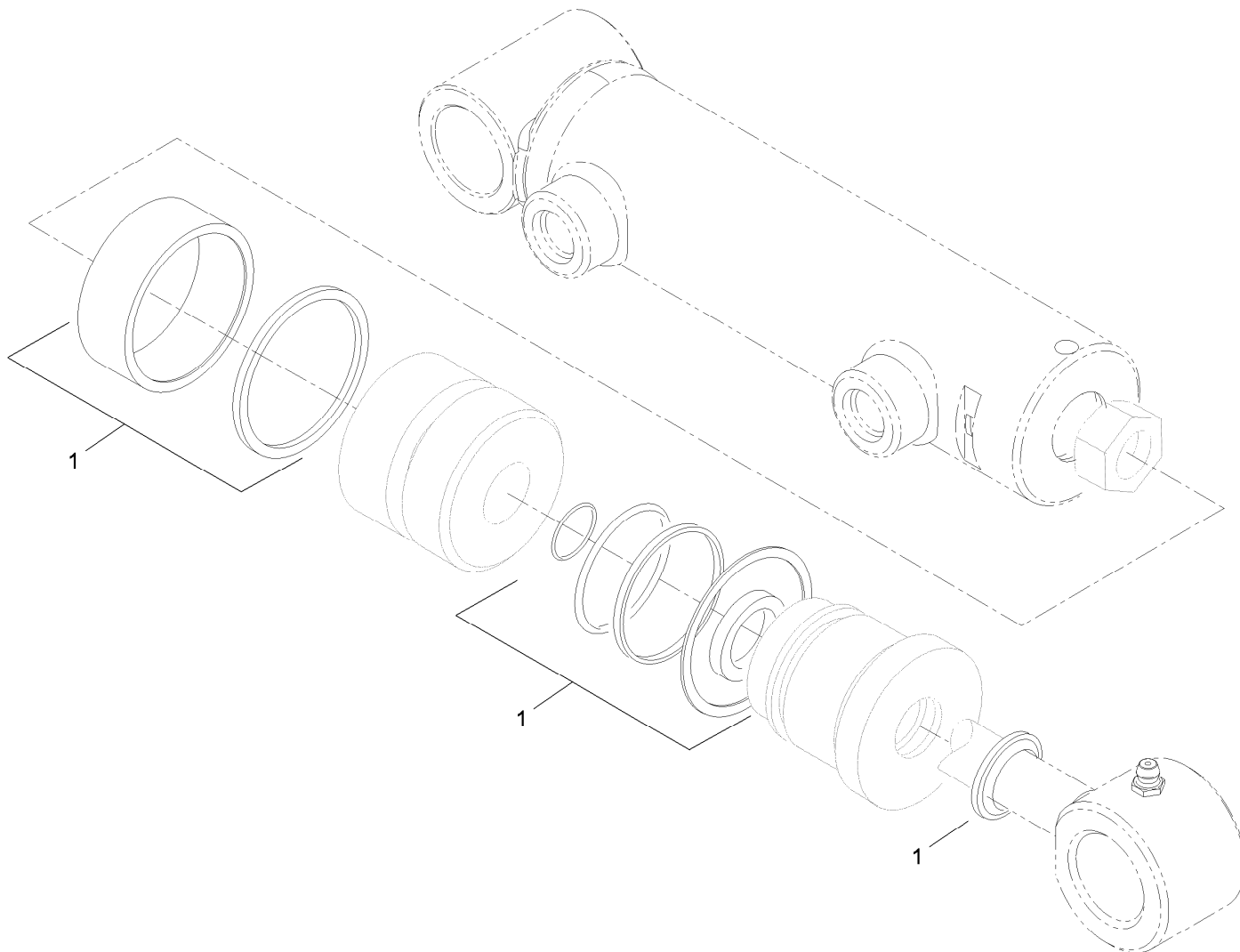
● Not serviced separately



No. 2 and 3 Lift Arm Assembly

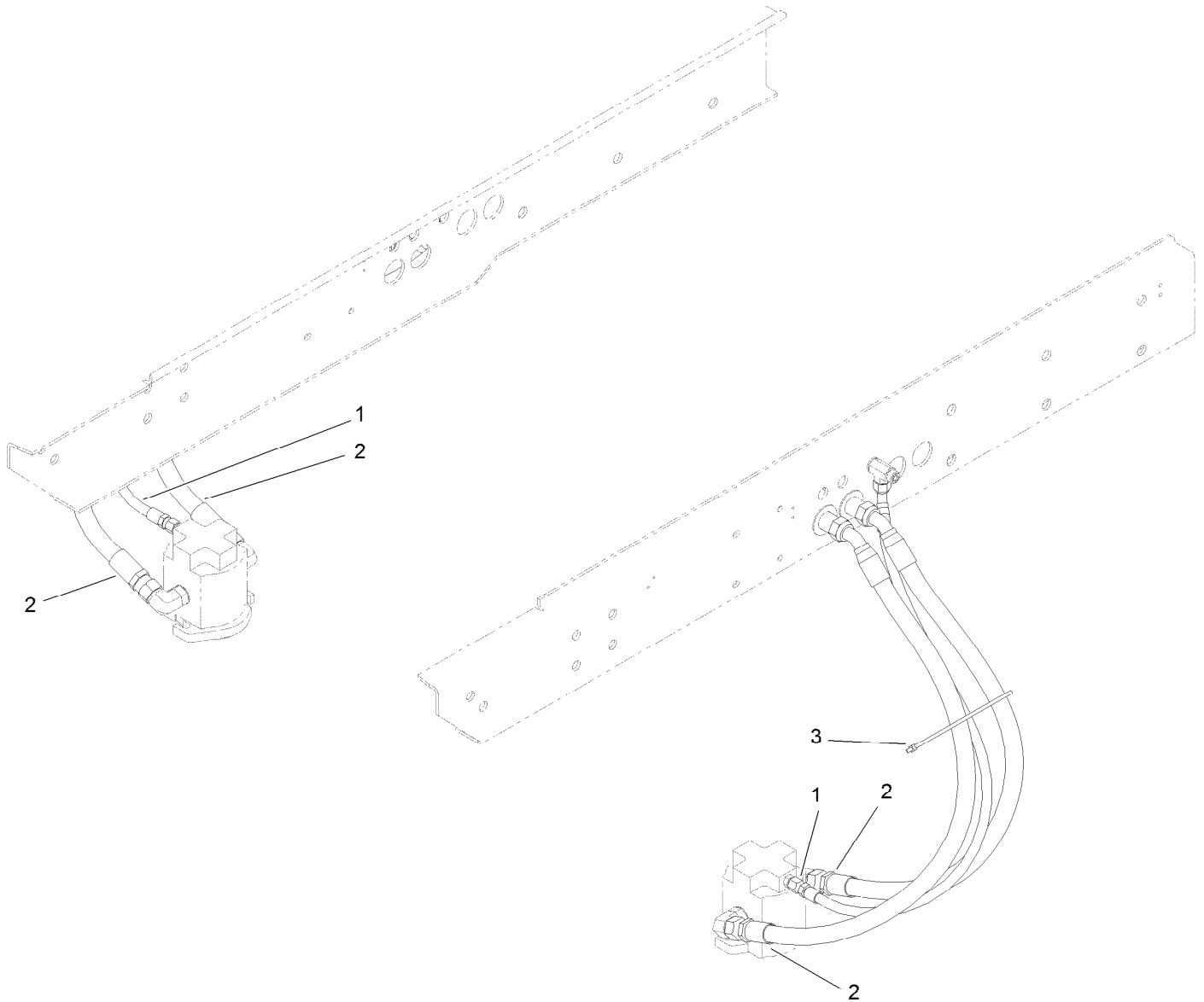
Ref.	Part Number	Qty.	Description
1	32128-20	2	Nut-HF
2	105-3992-03	1	Bracket-Bulkhead
3	340-166	2	Fitting-Tee
3:1	237-22	2	O-Ring
4	3234-17	2	Screw-HHF
5	33025-00	2	Nut-Lock, NI
6	32121-110	2	Pin-Roll, Slotted
7	95-7158	2	Pin-Pivot
8	87-3470	2	Bumper
9	3-6781	2	Washer-Thrust
10	63-7400	2	Washer-Rebound
11	105-9827	2	Shaft
12	105-9202	1	No. 2 Lift Arm ASM
12:2	302-60	1	Fitting-Grease
12:3	104-0015	2	Bushing-Flange
13	105-9203	1	No. 3 Lift Arm ASM
13:2	302-60	1	Fitting-Grease
13:3	104-0015	2	Bushing-Flange
14	104-8300	2	Nut-HF, NI
15	32151-36	4	Ring-Retaining

Ref.	Part Number	Qty.	Description
16	107-1978	2	HYD Cylinder ASM
17	302-11	2	Fitting-Lube, 45 DEG
18	3296-49	2	Nut-Lock, NI
19	340-2	2	Fitting-Straight
19:1	237-22	1	O-Ring
19:2	237-42	1	O-Ring
20	92-7548	2	Pin-Cylinder
21	76-2980	2	Washer-Thrust
23	104-5525	2	Pin-Cylinder
24	323-7	2	Screw-HH
25	340-77	2	Fitting-Elbow, 90 DEG
25:1	237-22	1	O-Ring
25:2	237-42	1	O-Ring
26	323-4	2	Screw-HH
27	105-9839	2	Stop-Rotation, No. 2 And 3
28	108-0989	4	Screw-Set
29	119-3941-03	1	Support-Bumper, Rear
30	3234-11	3	Screw-HHF
31	104-8301	3	Nut-HF, NI



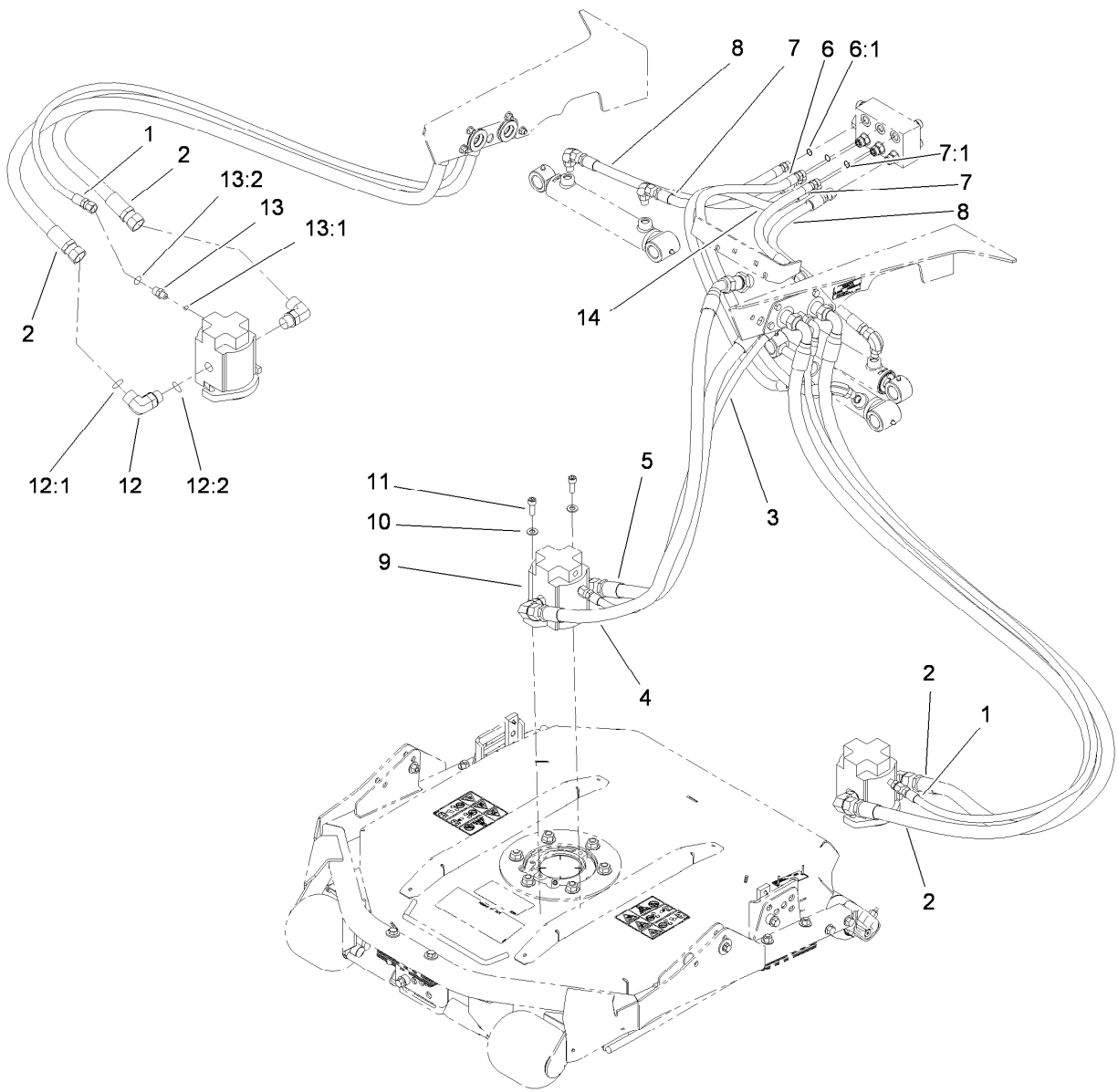
Hydraulic Cylinder Assembly No. 107-1978

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	107-1977	1	Seal Kit



No. 2 and 3 Hose Installation Assembly

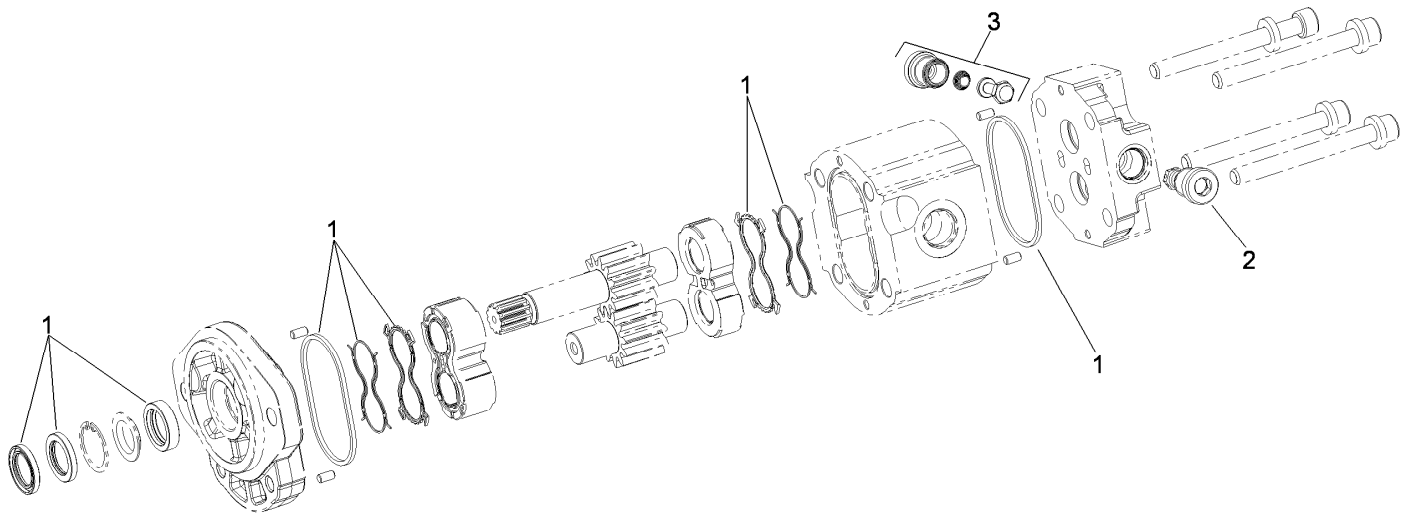
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	104-5502	2	Hose-HYD
2	104-5505	4	Hose-HYD
3	3290-379	2	Tie-Cable



No. 1, 4 and 5 Hose Installation Assembly

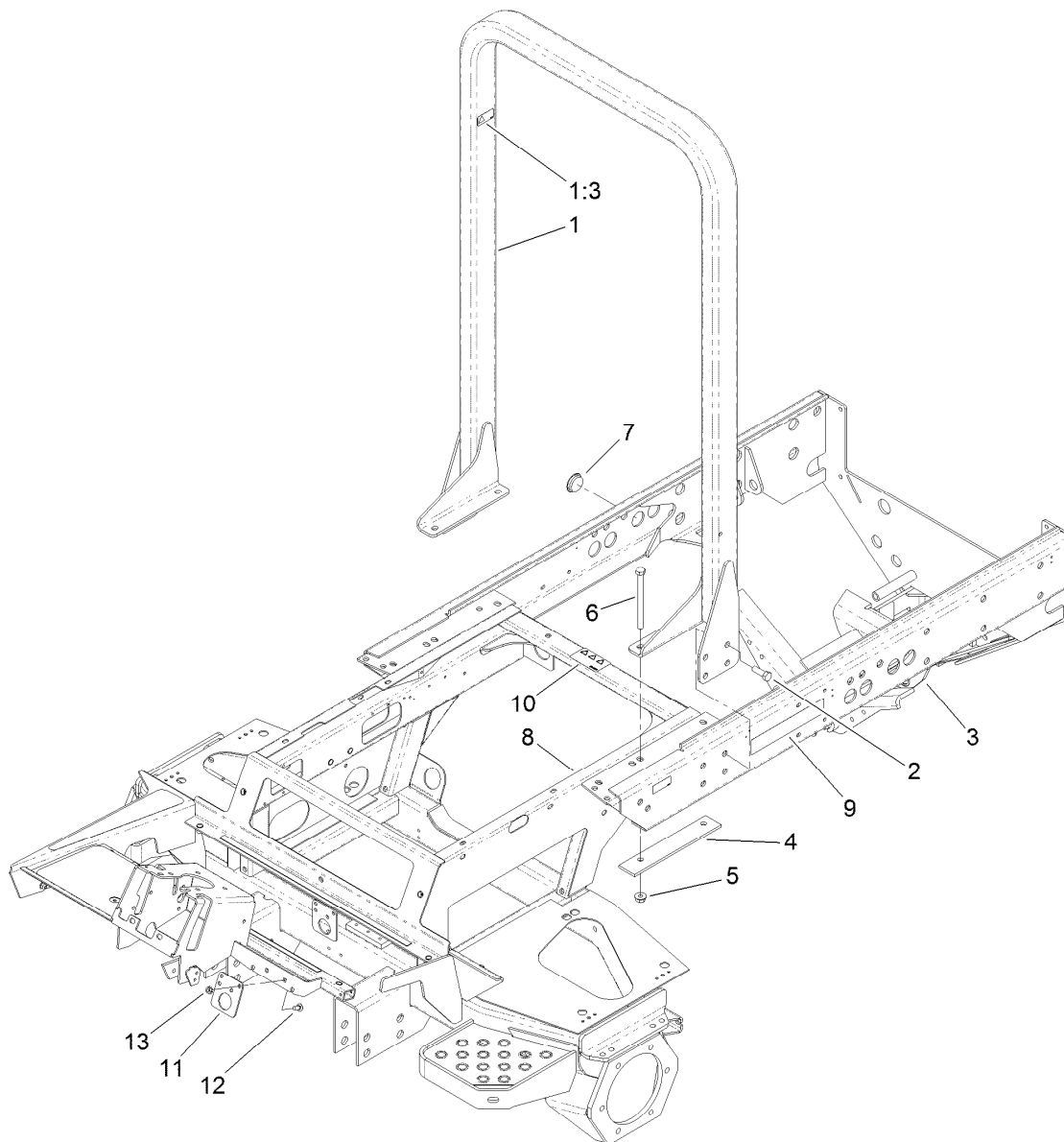
Ref.	Part Number	Qty.	Description
1	104-5500	2	Hose-HYD
2	104-5501	4	Hose-HYD
3	104-5502	1	Hose-HYD
4	104-5504	1	Hose-HYD
5	104-5505	1	Hose-HYD
6	104-5511	1	Hose -HYD
6:1	237-42	1	O-Ring
7	104-5512	2	Hose-HYD
7:1	237-42	1	O-Ring
8	99-3579	2	Hose-HYD

Ref.	Part Number	Qty.	Description
9	117-5141	5	HYD Motor ASM
10	3256-24	10	Washer-Flat
11	3274-7	10	Screw-HSH
12	340-17	10	Fitting-Elbow, 90 DEG
12:1	237-65	1	O-Ring
12:2	237-80	1	O-Ring
13	340-92	5	Fitting-Straight
13:1	237-78	1	O-Ring
13:2	237-21	1	O-Ring
14	100-5629	1	Hose ASM



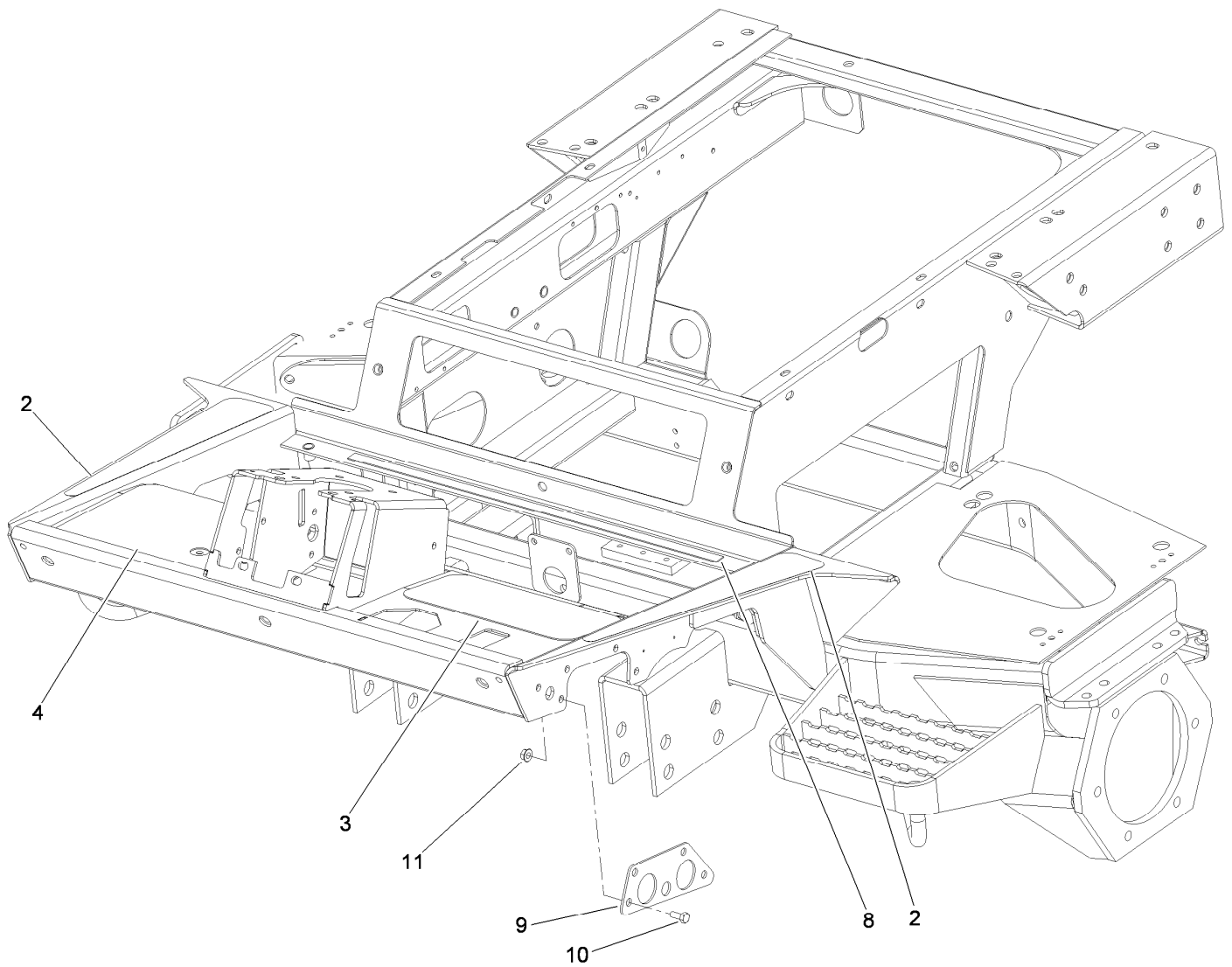
Gear Motor Assembly No. 117-5141

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	117-0235	1	Seal Kit
2	107-7820	1	Valve-Relief
3	107-7821	1	Valve-Anticavitation



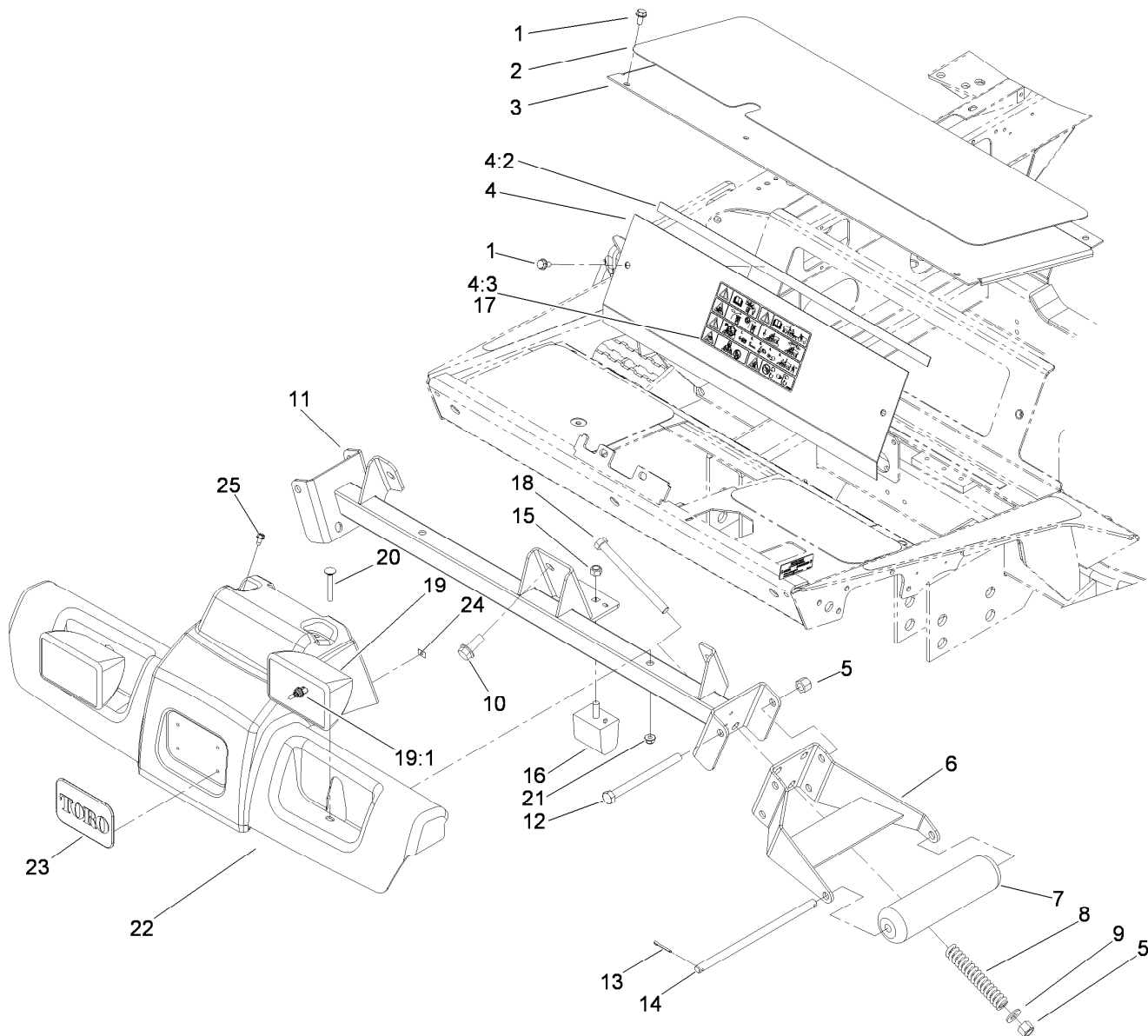
Roll-Over Protection System and Front Frame Assembly

Ref.	Part Number	Qty.	Description
1	108-4018	1	ROPS ASM
1:3	98-4387	1	Decal-Protection, Ear
2	3234-38	12	Screw-HHF
3	115-4394-03	1	Frame-Rear
4	104-5584-03	2	Plate-Reinforcement, ROPS
5	32128-49	4	Nut-HHF
6	325-20	4	Screw-HH
7	105-9194	4	Plug
8	115-4392	1	Front Frame ASM
9	72-3560	2	Decal
10	106-6754	1	Decal-Danger
11	104-5516-01	1	Support-Tube
12	3230-23	2	Screw-CARR
13	32128-20	2	Nut-HF



Front Frame Assembly No. 115-4392

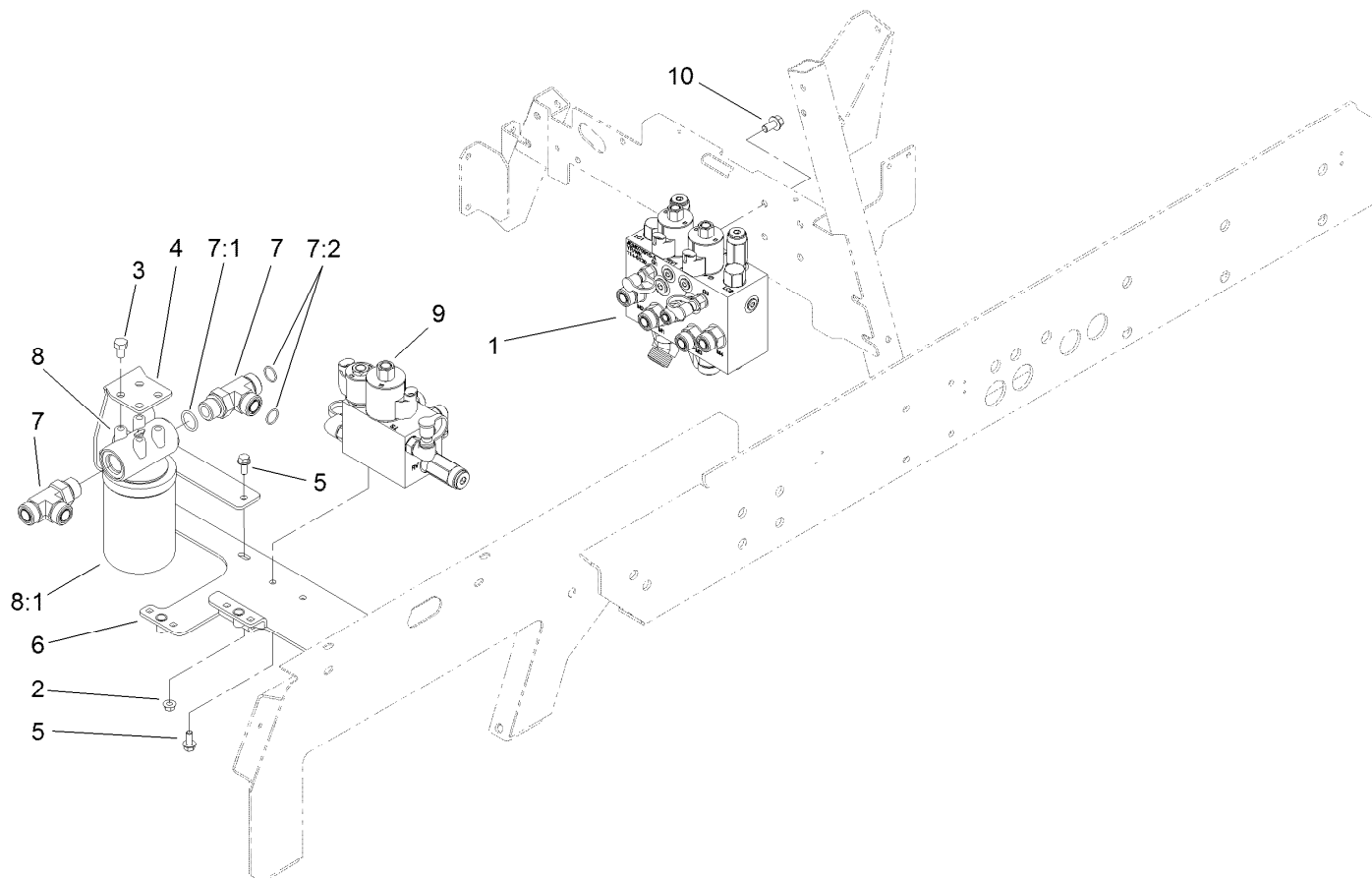
Ref.	Part Number	Qty.	Description
2	93-7592	2	Tread-Rest, Foot
3	75-0620	1	Tread-Foot, LH
4	104-5223	1	Tread-Foot, RH
8	105-9860	2	Seal-Foam
9	106-7794-01	2	Plate-Mount, HYD Fitting
10	322-3	8	Screw-HH
11	32128-20	8	Nut-HF



Front Shroud and Work Lights

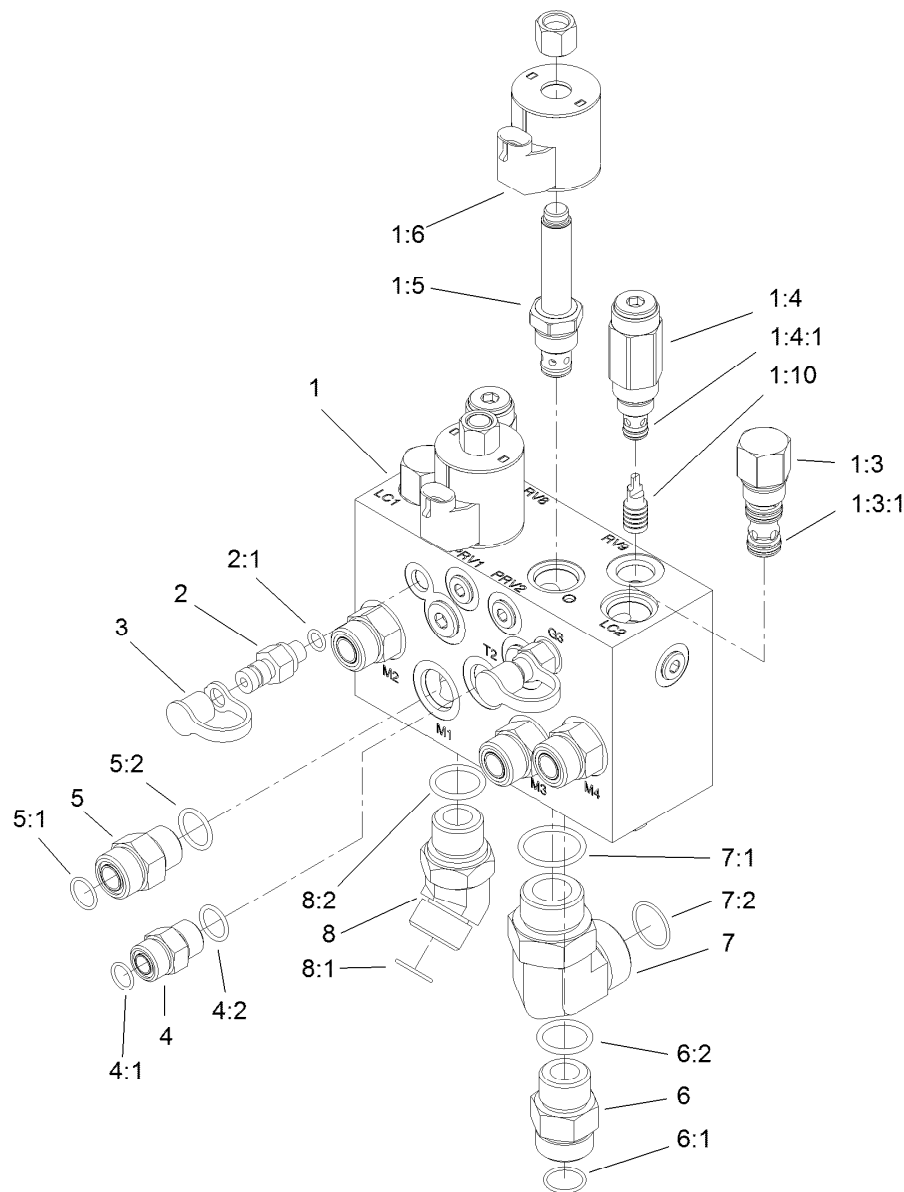
Ref.	Part Number	Qty.	Description
1	3234-7	7	Screw-HHF
2	75-0630	1	Tread-Foot, Center
3	75-1410-01	1	Plate-Access, Floor
4	119-0006	1	Access Plate ASM
4:2	105-9860	2	Seal-Foam
4:3	112-5297	1	Decal-Danger
5	3296-23	4	Nut-Lock, NI
6	105-3996-01	2	Support-Roller
7	105-9816	2	Roller-Plastic
8	105-3970	2	Spring-Compression
9	3256-26	2	Washer-Flat
10	3234-38	3	Screw-HHF
11	117-4760-01	1	Support-Roller
12	325-22	2	Screw-HH

Ref.	Part Number	Qty.	Description
13	3272-11	4	Pin-Cotter
14	104-5545	2	Shaft-Roller
15	33025-00	1	Nut-Lock, NI
16	87-3470	1	Bumper
17	112-5298	1	Decal-Danger, CE
18	325-20	2	Screw-HH
19	94-9024	2	Lamp ASM
19:1	95-0909	1	Lamp-12 Volt
20	3230-7	2	Bolt-CARR
21	104-8300	2	Nut-HF, NI
22	115-9137	1	Shroud-Platform
23	93-6028	1	Plate-Logo
24	3254-9	4	Washer-Lock, Internal
25	32104-17	2	Screw-HWH



Manifold and Filter Assembly

Ref.	Part Number	Qty.	Description
1	117-2392	1	Mow Manifold ASM
2	32128-20	2	Nut-HF
3	33115-016	4	Screw-HH
4	104-5492-03	1	Bracket-Mount, Filter
5	3234-5	8	Screw-HHF
6	117-2362	1	Bracket-Mount, Valve
7	340-148	2	Fitting-Tee
7:1	237-81	1	O-Ring
7:2	237-58	2	O-Ring
8	93-2242	1	Oil Filter ASM
8:1	75-1310	1	Filter-HYD
9	117-2388	1	Lift Manifold ASM
10	110-1718	4	Screw-HHF



Mow Manifold Assembly No. 117-2392

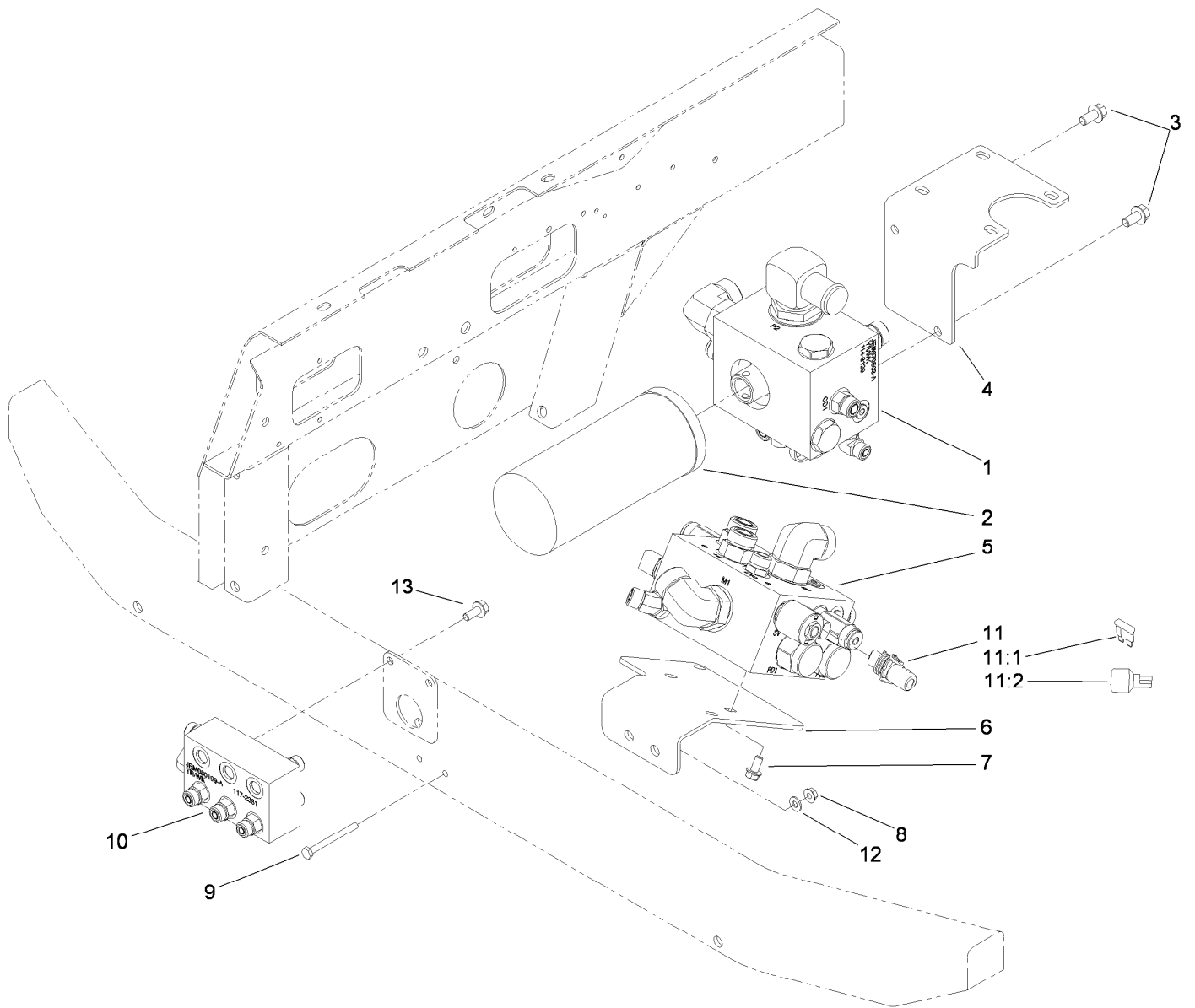
Ref.	Part Number	Qty.	Description
1		1	Manifold-Mow ●
1:3	105-9153	2	Element-Logic, Vented
1:3:1	119-2159	1	Seal Kit
1:4	112-5259	2	Valve-Relief
1:4:1	105-9156	1	Seal Kit
1:5	110-8799	2	Valve-Relief, Proportional
1:6	110-6344	2	Coil-12V, DC
1:10	105-9157	2	Piston-Pilot
2	354-77	2	Fitting-Quick
2:1	237-78	1	O-Ring
3	354-79	2	Cap-Dust
4	340-4	1	Fitting-Straight
4:1	237-30	1	O-Ring

Ref.	Part Number	Qty.	Description
4:2	237-79	1	O-Ring
5	340-7	4	Fitting-Straight
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-9	1	Fitting-STR
6:1	237-58	1	O-Ring
6:2	237-81	1	O-Ring
7	340-129	1	Fitting-Elbow, 90 DEG
7:1	237-146	1	O-Ring
7:2	340-65	1	O-Ring
8	100-5530	1	Fitting-45 DEG
8:1	237-58	1	O-Ring
8:2	237-81	1	O-Ring

● Not serviced separately

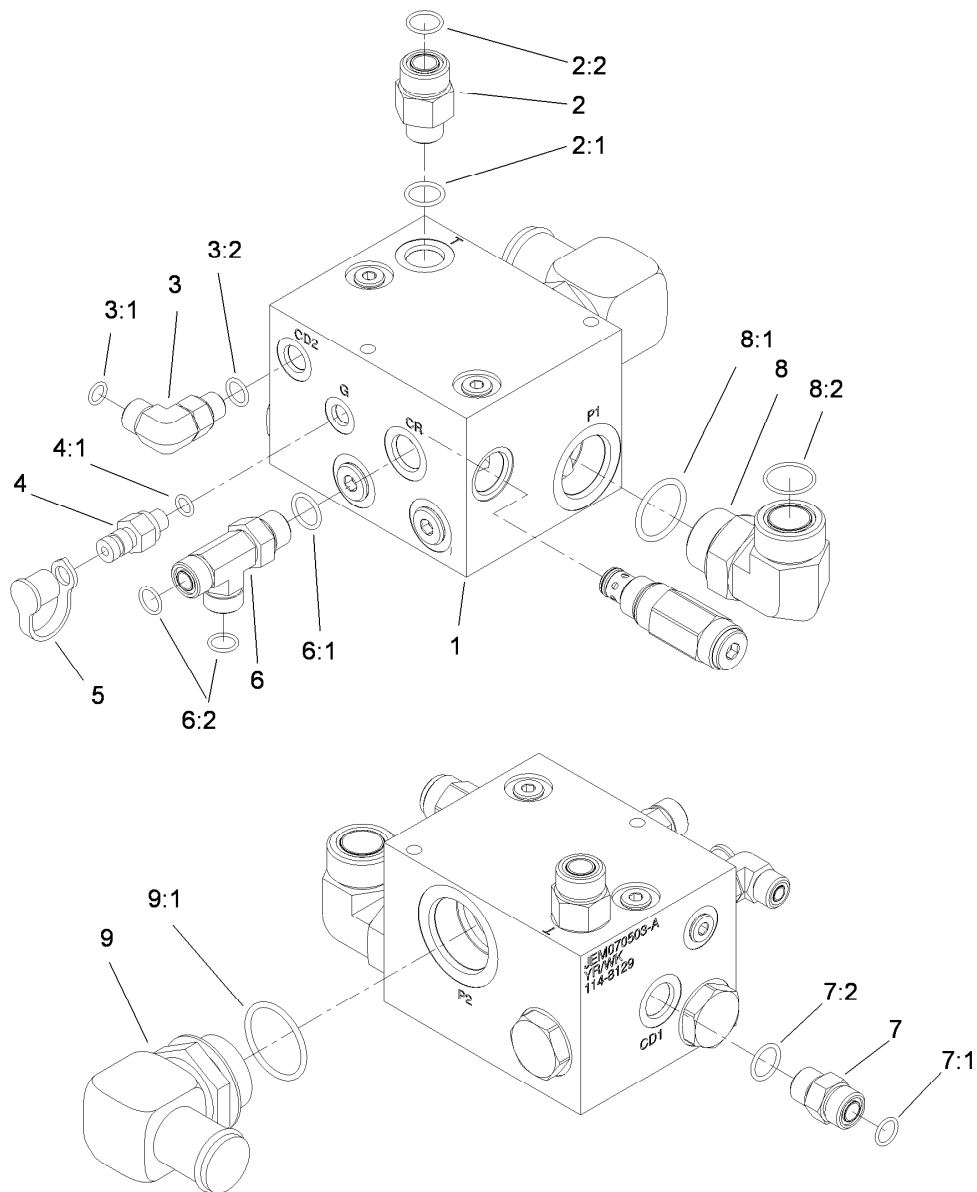


- Not serviced separately



4-Wheel Drive Manifold and Filter Assembly

Ref.	Part Number	Qty.	Description
1	117-2391	1	Filter Manifold ASM
2	94-2621	1	Element-Filter
3	110-1718	2	Screw-HHF
4	114-8135-03	1	Bracket-Manifold, Filter
5	119-8625	1	4Wd Manifold ASM
6	104-5467-03	1	Bracket-Mount, Valve
7	3234-14	3	Screw-HHF
8	32128-33	2	Nut-HF
9	321-14	2	Screw-HH
10	117-2394	1	Junction Manifold ASM
11	119-1310	1	Harness-Wire, Main
11:1	99-6124	1	Fuse-40 Amp
11:2	100-4918	1	Diode
12	3256-22	2	Washer-Flat
13	3234-5	2	Screw-HHF

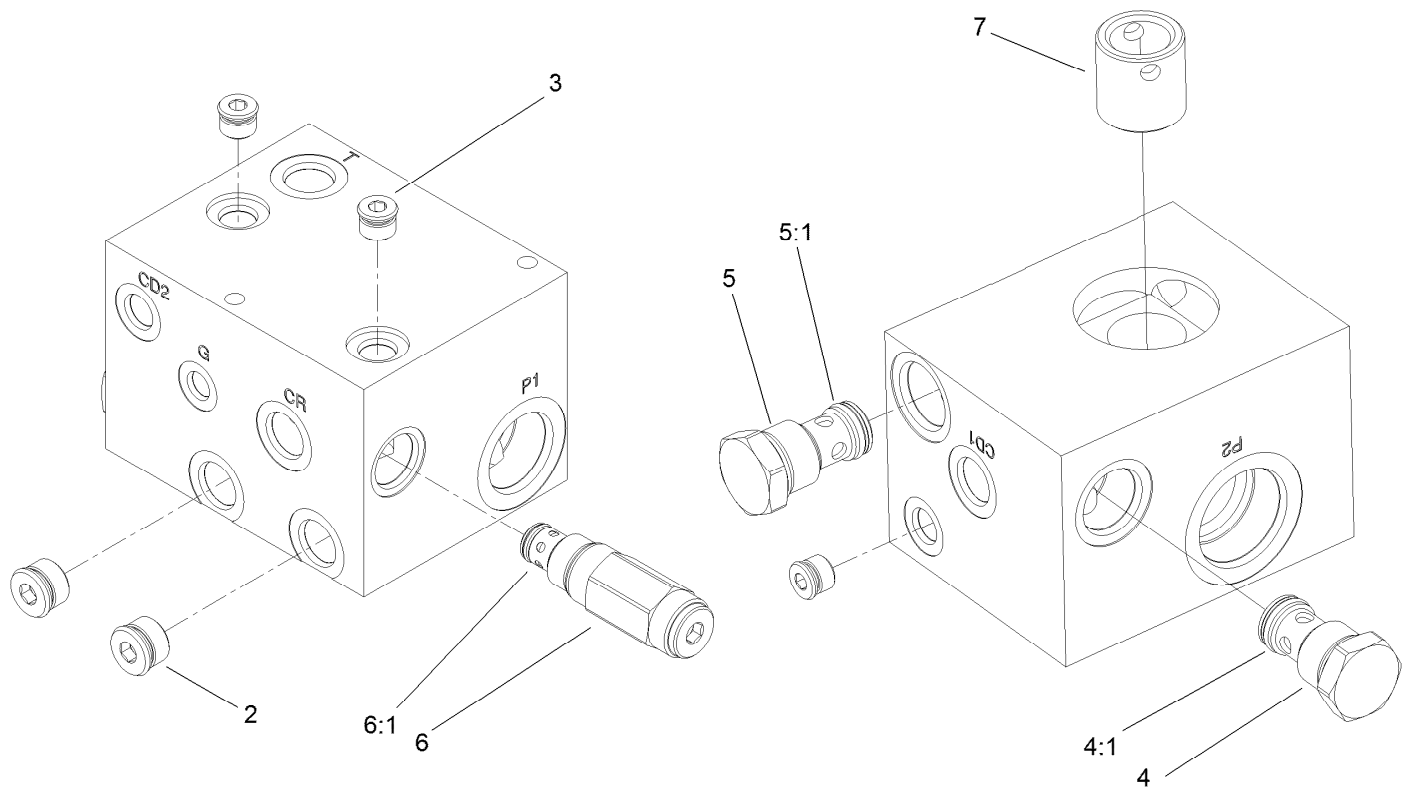


Filter Manifold Assembly No. 117-2391

Ref.	Part Number	Qty.	Description
1		1	HYD Filter Manifold ASM ●
2	340-155	1	Fitting-Straight
2:1	237-79	1	O-Ring
2:2	237-151	1	O-Ring
3	340-77	1	Fitting-Elbow, 90 DEG
3:1	237-22	1	O-Ring
3:2	237-42	1	O-Ring
4	354-77	1	Fitting-Quick
4:1	237-78	1	O-Ring
5	354-79	1	Cap-Dust
6	340-109	1	Fitting-Tee

Ref.	Part Number	Qty.	Description
6:1	237-79	1	O-Ring
6:2	237-30	2	O-Ring
7	340-4	1	Fitting-Straight
7:1	237-30	1	O-Ring
7:2	237-79	1	O-Ring
8	340-129	1	Fitting-Elbow, 90 DEG
8:1	237-146	1	O-Ring
8:2	340-65	1	O-Ring
9	92-7526	1	Fitting-HYD 90 Spcl
9:1	237-101	1	O-Ring

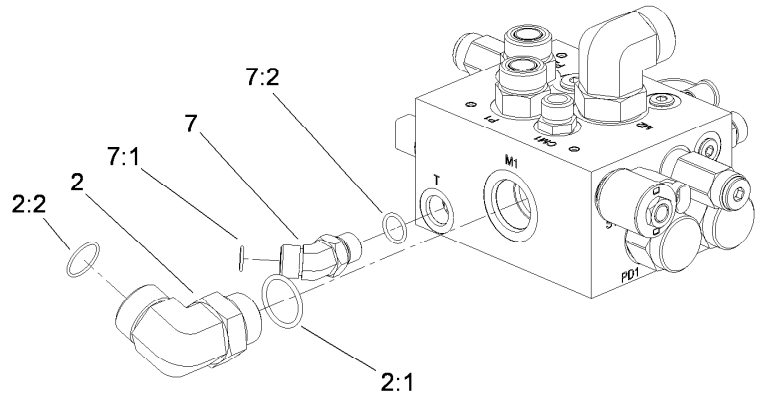
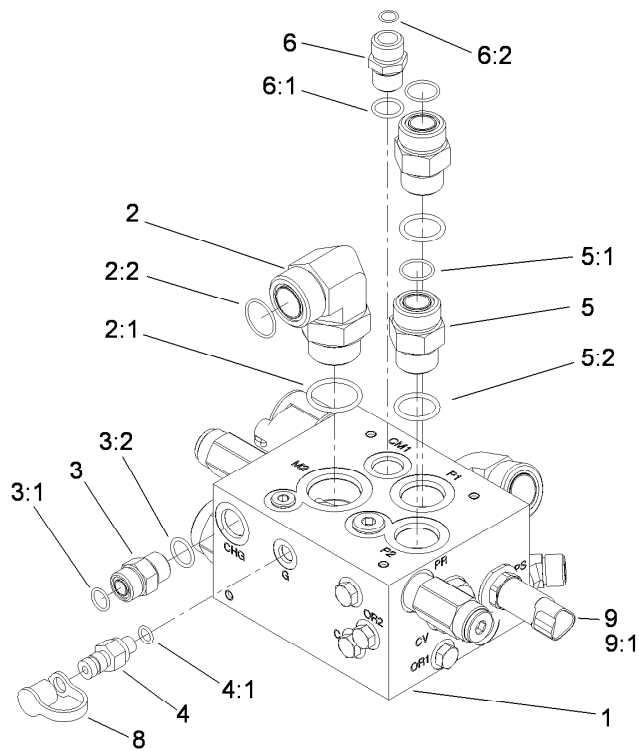
● Not serviced separately



Filter Manifold Assembly

Ref.	Part Number	Qty.	Description
2		2	Plug ●
3		3	Plug ●
4	110-0468	1	Valve-Check, 5 PSI
4:1	110-0470	1	Seal Kit
5	110-0467	1	Valve-Check, 40 PSI
5:1	110-0470	1	Seal Kit
6	115-4140	1	Valve-Check
6:1	105-9159	1	Seal Kit
7		1	Filter Nipple ●

● Not serviced separately

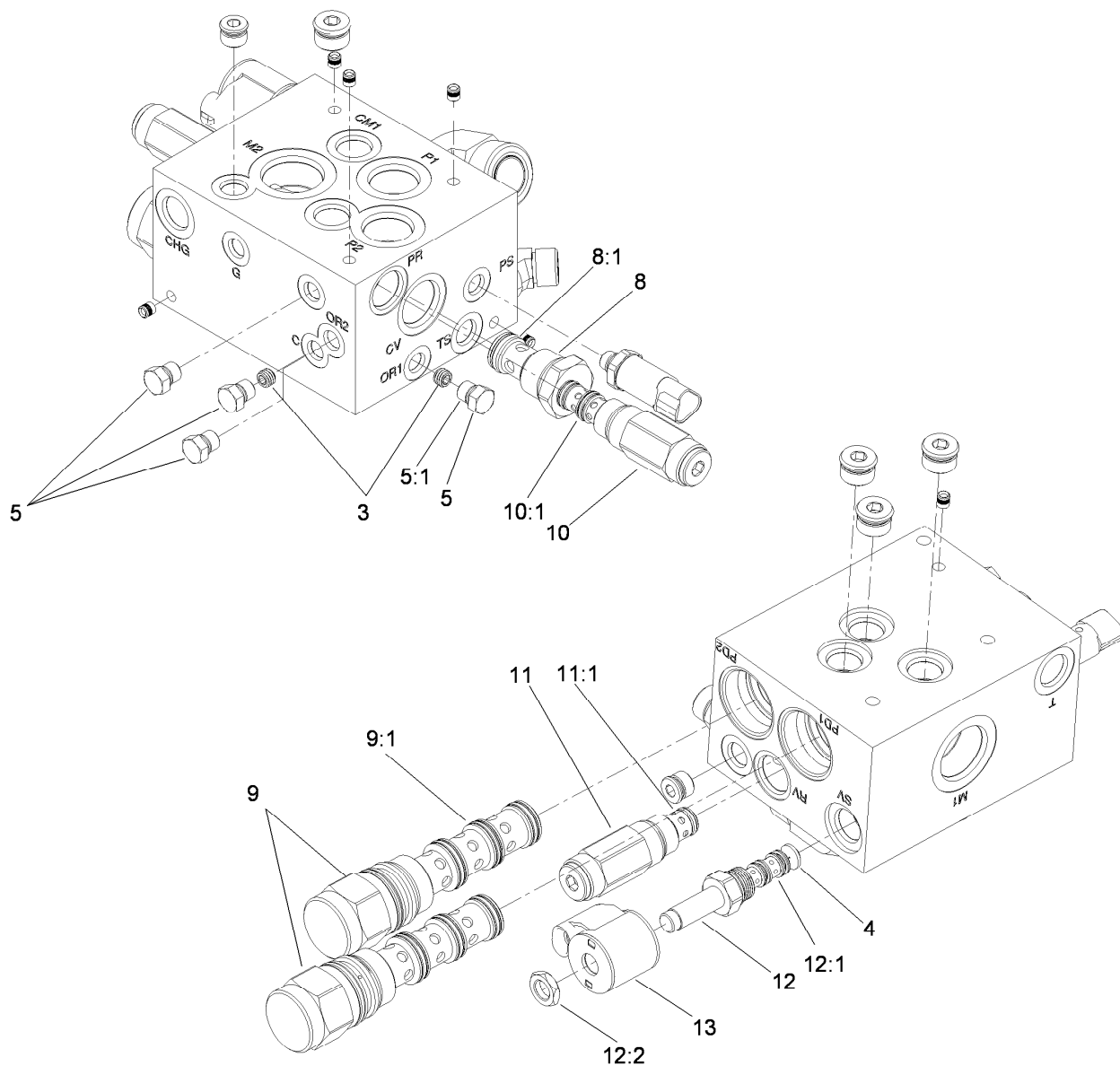


Drive Manifold Assembly No. 119-8625

Ref.	Part Number	Qty.	Description
1		1	Manifold-4Wd ●
2	340-129	2	Fitting-Elbow, 90 DEG
2:1	237-146	1	O-Ring
2:2	340-65	1	O-Ring
3	340-4	1	Fitting-Straight
3:1	237-30	1	O-Ring
3:2	237-79	1	O-Ring
4	354-77	1	Fitting-Quick
4:1	237-78	1	O-Ring
5	340-9	2	Fitting-STR
5:1	237-58	1	O-Ring

Ref.	Part Number	Qty.	Description
5:2	237-81	1	O-Ring
6	100-4890	1	Fitting-Check
6:1	237-79	1	O-Ring
6:2	237-30	1	O-Ring
7	340-101	1	Fitting-HYD, 45 DEG
7:1	237-30	1	O-Ring
7:2	237-79	1	O-Ring
8	354-79	1	Cap-Dust
9	119-0011	1	Pressure Transducer ASM
9:1	237-78	1	O-Ring

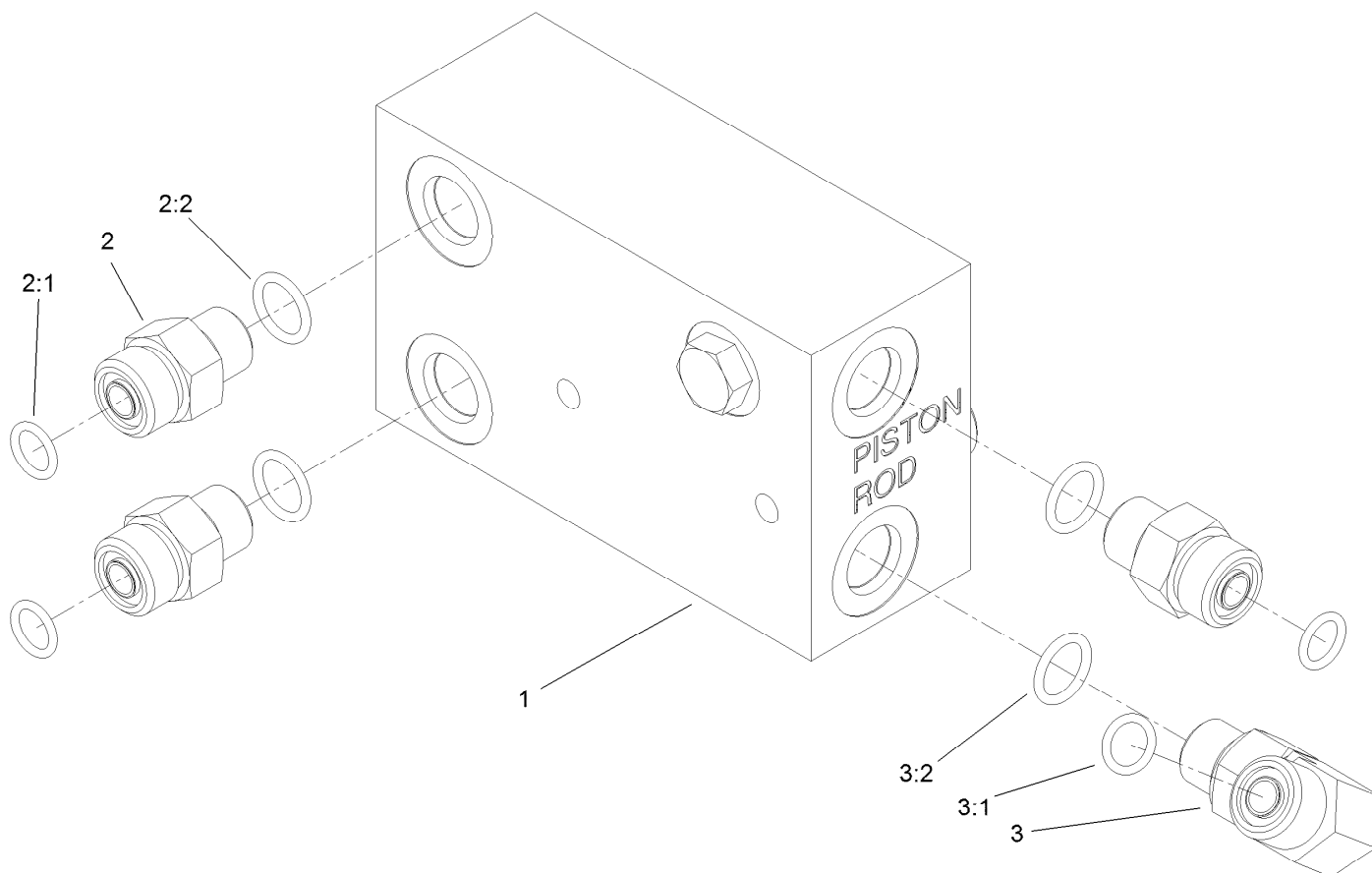
● Not serviced separately



4-Wheel Drive Manifold Assembly

Ref.	Part Number	Qty.	Description
3	110-0495	2	Plug-Orifice (0.050 Inch)
4	110-0498	1	Orifice (.030)
5	117-0115	4	Plug
5:1	237-78	1	O-Ring
8	110-0468	1	Valve-Check, 5 PSI
8:1	110-0470	1	Seal Kit
9	110-0491	2	Valve-Directional
9:1	106-6775	1	Seal Kit

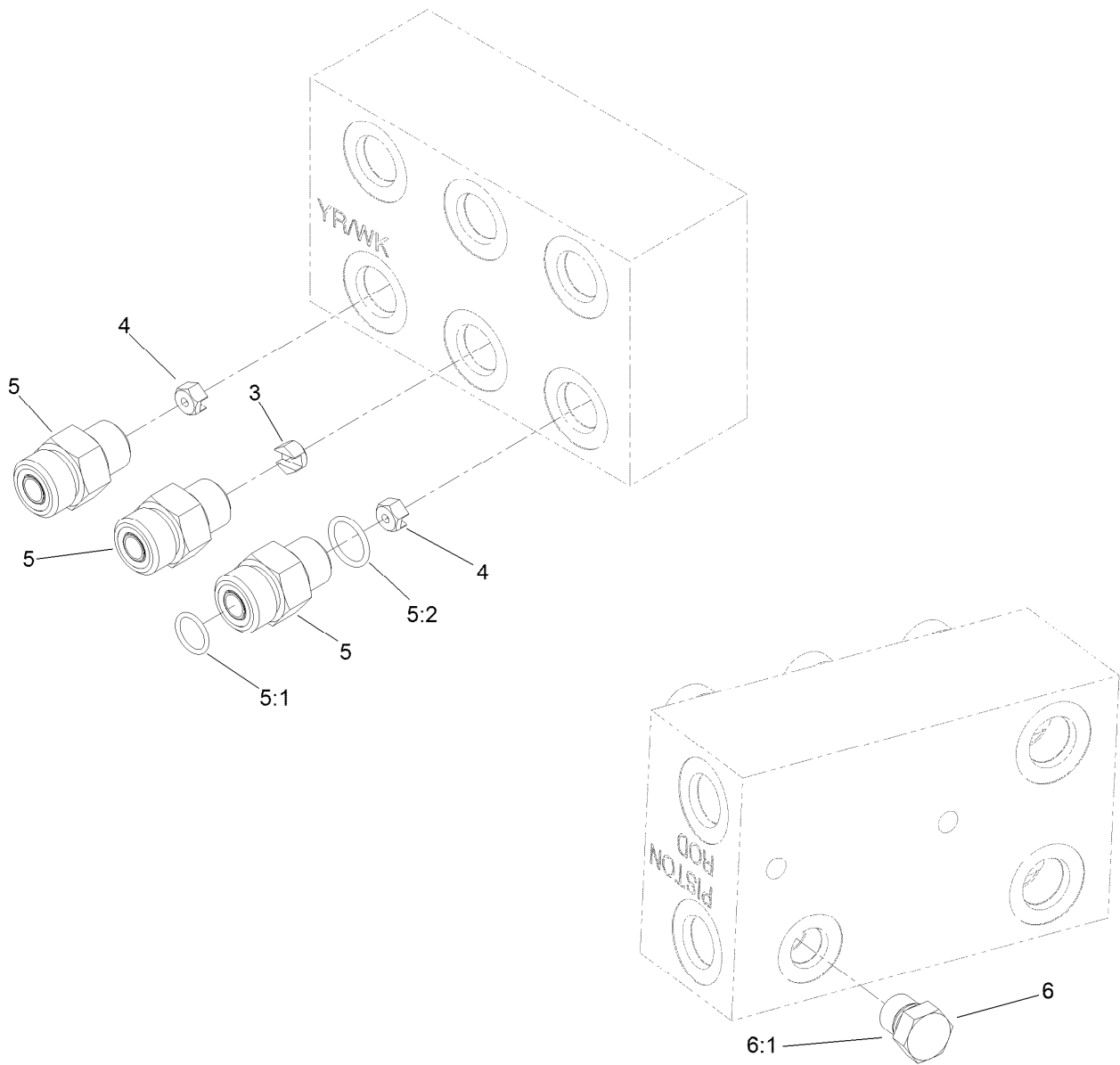
Ref.	Part Number	Qty.	Description
10	110-0496	1	Valve-Reducing, Pressure
10:1	105-9154	1	Seal Kit
11	112-9205	1	Valve-Relief
11:1	105-9159	1	Seal Kit
12	110-0494	1	Valve-Solenoid
12:1	110-8773	1	Seal Kit
12:2	110-2634	1	Nut-Coil
13	110-0497	1	Coil-Solenoid



Junction Manifold Assembly No. 117-2394

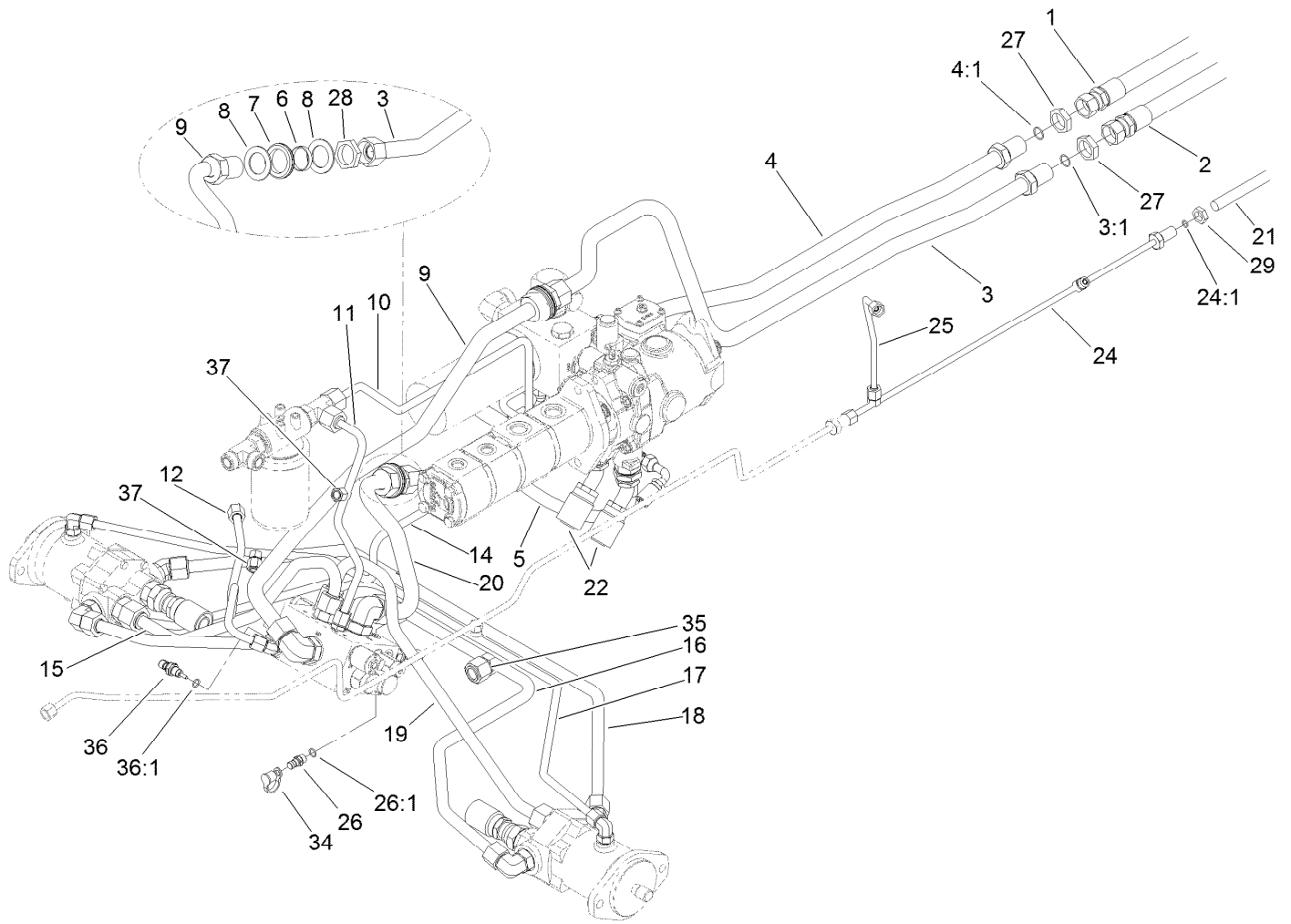
Ref.	Part Number	Qty.	Description
1		1	Manifold-Junction ●
2	340-2	3	Fitting-Straight
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	340-77	1	Fitting-Elbow, 90 DEG
3:1	237-22	1	O-Ring
3:2	237-42	1	O-Ring

● Not serviced separately



Junction Manifold Assembly

Ref.	Part Number	Qty.	Description
3	119-2010	1	Orifice-Control, Flow (0.055)
4	119-2009	2	Orifice-Flow Control (0.030)
5	340-2	3	Fitting-Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	117-0115	1	Plug
6:1	237-78	1	O-Ring

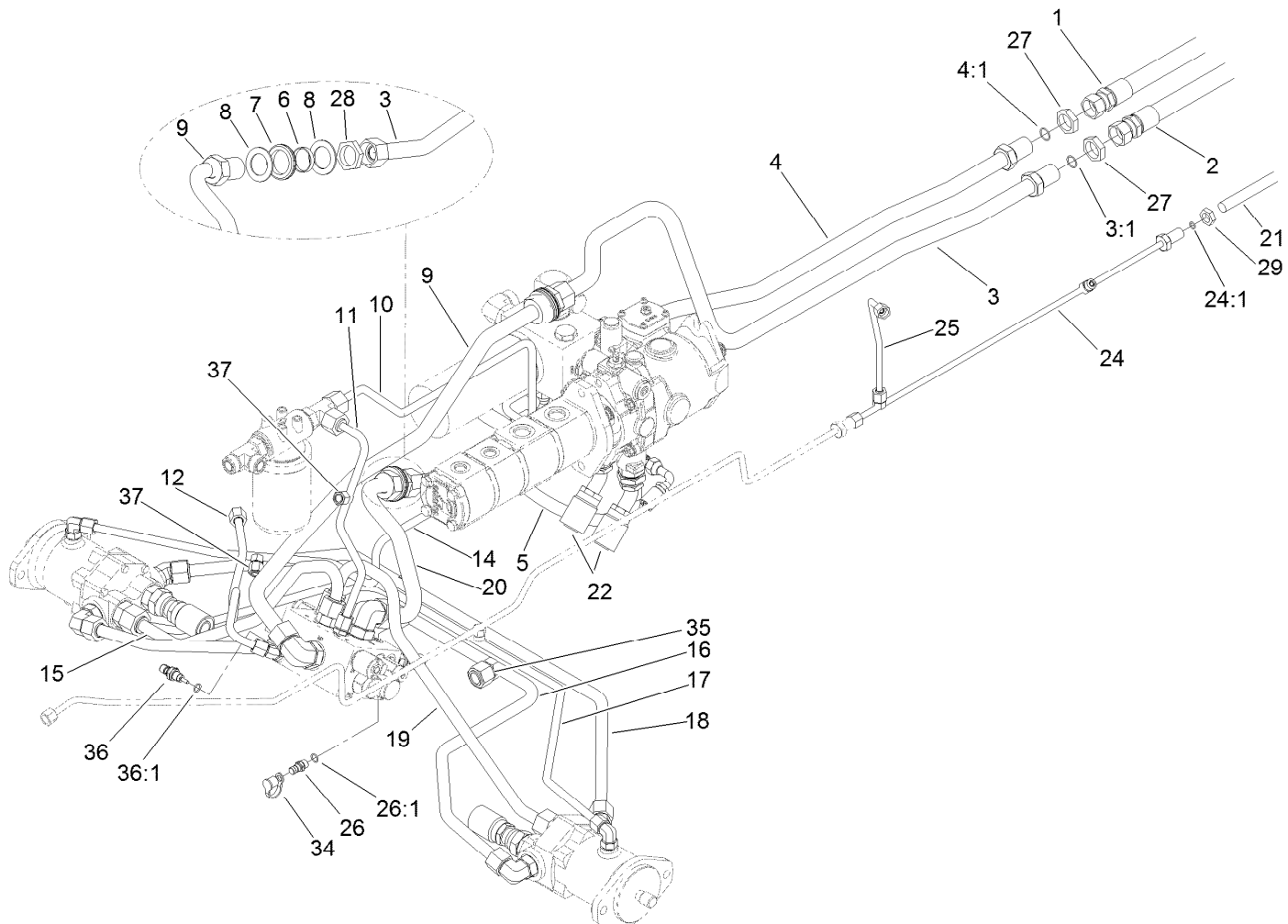


Traction Hydraulic Lines Assembly

Ref.	Part Number	Qty.	Description
1	92-7536	1	Hose-HYD
2	105-9818	1	Hose-HYD
3	114-8118	1	Tube-HYD
3:1	237-58	1	O-Ring
4	115-4431	1	Tube-HYD
4:1	237-58	1	O-Ring
5	105-7927	1	Hose-HYD
6	69-8950	2	Spacer
7	240-2	2	Grommet-Rubber
8	69-8920	4	Washer
9	114-8149	1	Tube-HYD
9:1	340-65	1	O-Ring ●
10	115-4426	1	Tube-HYD
11	114-8148	1	Tube-HYD
11:1	237-22	1	O-Ring ●
12	115-4351	1	Tube-HYD
14	115-4427	1	Tube-HYD
15	114-8145	1	Tube-HYD

Ref.	Part Number	Qty.	Description
16	115-9113	1	Tube-HYD
17	115-9126	1	Tube-HYD
18	104-5462	1	Tube ASM
19	114-8146	1	Tube-HYD
20	114-8147	1	Tube-HYD
20:1	340-65	1	O-Ring ●
21	92-7534	1	Hose-HYD
22	104-5464	2	Hose-HYD
24	114-4194	1	Tube-HYD
24:1	237-22	3	O-Ring
25	115-9124	1	Tube-HYD
26	59-7410	2	Fitting-Diagnostic
26:1	237-42	1	O-Ring
27	340-126	2	Nut-Bulkhead
28	340-128	2	Nut-Bulkhead
29	340-70	1	Nut-Lock
34	354-79	2	Cap-Dust
35	95-0979	1	Cap-Ors

● Not illustrated

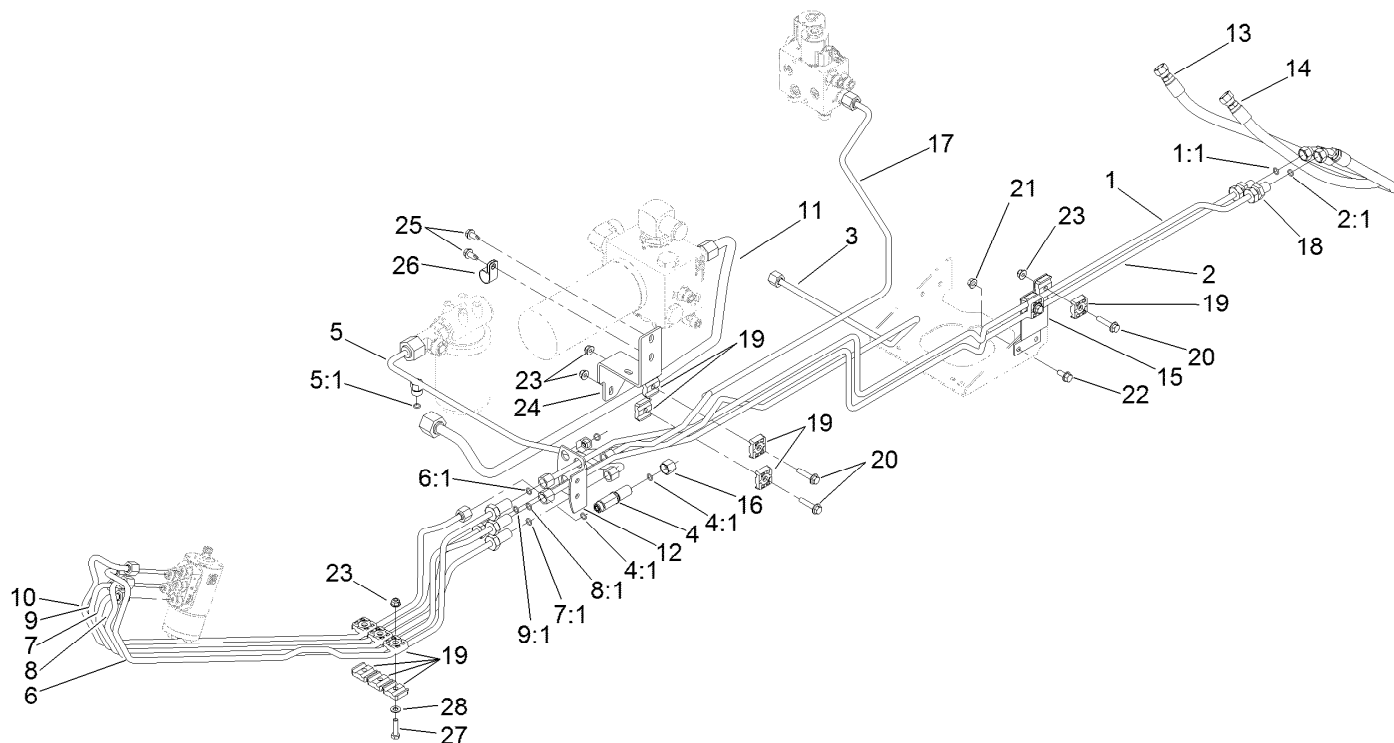


Traction Hydraulic Lines Assembly (continued)

Ref.	Part Number	Qty.	Description
36	110-8829	1	Sender-Temperature

Ref.	Part Number	Qty.	Description
36:1	237-42	1	O-Ring
37	340-117	2	Cap

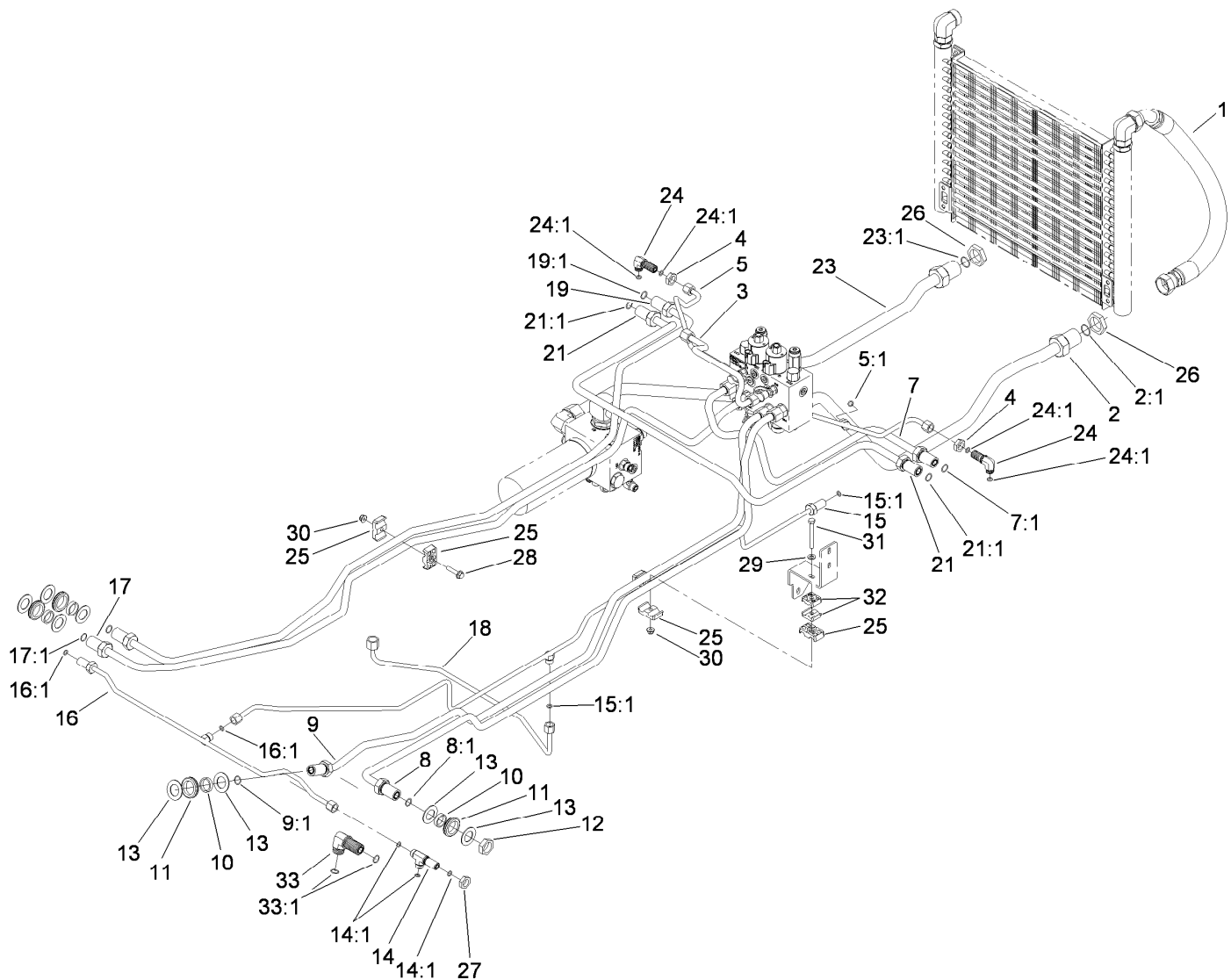
● Not illustrated



Hydraulic Steering Assembly

Ref.	Part Number	Qty.	Description
1	105-3871	1	Tube ASM
1:1	237-22	1	O-Ring
2	115-9128	1	Tube ASM
2:1	237-22	1	O-Ring
3	115-4428	1	Tube-HYD
4	340-68	1	Fitting-Tee, Bulkhead
4:1	237-22	3	O-Ring
5	115-4412	1	Tube ASM
5:1	237-22	1	O-Ring
6	115-4408	1	Tube ASM
6:1	237-22	1	O-Ring
7	115-4406	1	Tube ASM
7:1	237-22	1	O-Ring
8	115-4409	1	Tube ASM
8:1	237-22	1	O-Ring
9	115-4405	1	Tube ASM
9:1	237-22	1	O-Ring
10	115-4407	1	Tube-HYD

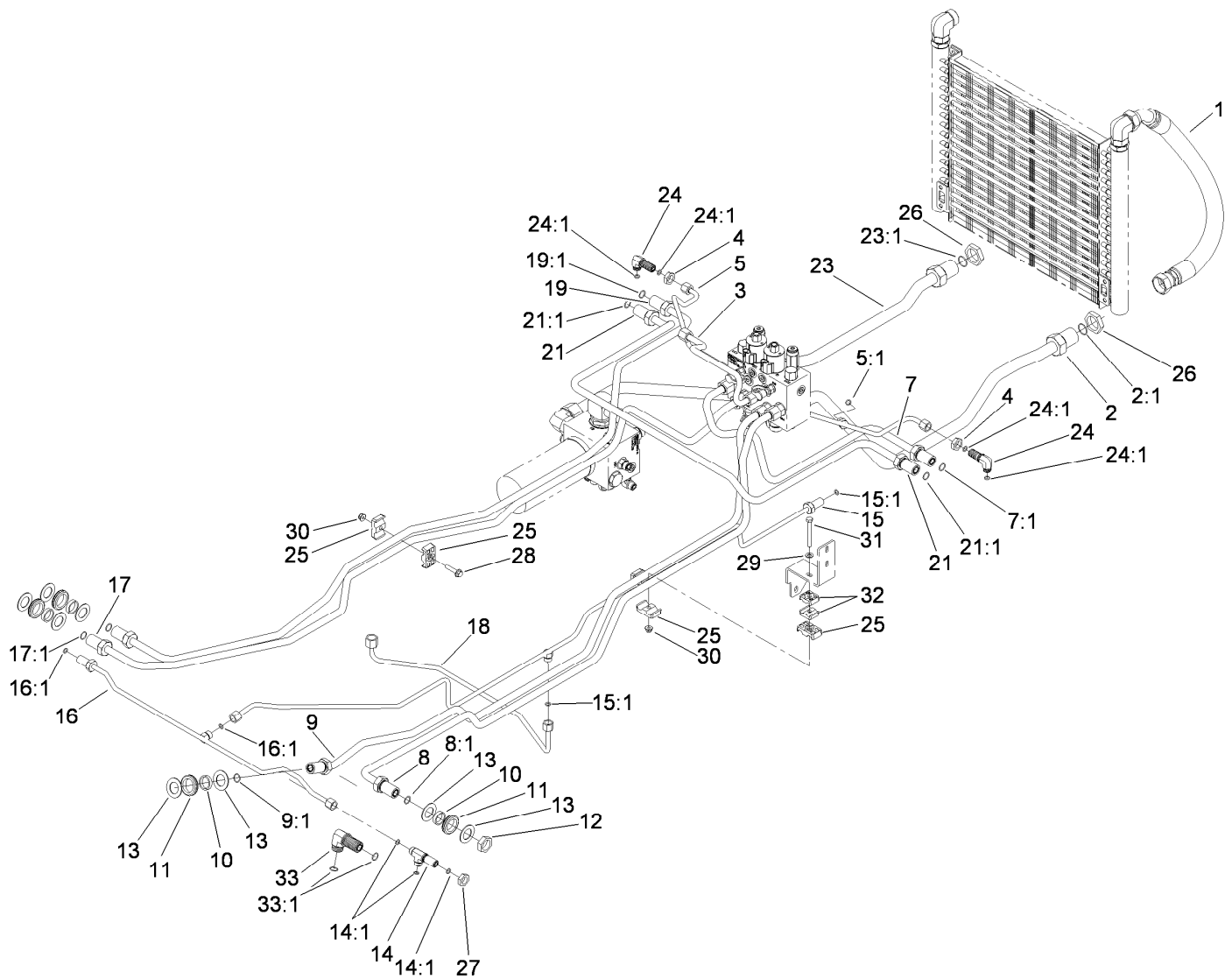
Ref.	Part Number	Qty.	Description
11	115-4425	1	Tube-HYD
12	92-7606-03	1	Bracket-Bulkhead
13	105-9817	1	Hose-HYD
14	92-7539	1	Hose-HYD
15	105-3873-03	1	Bracket-Mount, Clamp
16	340-117	1	Cap
17	115-4422	1	Tube-HYD
18	340-70	7	Nut-Lock
19	56-7973	14	Clamp-Tube
20	115-1794	4	Screw-HHF
21	32128-20	2	Nut-HF
22	3234-5	2	Screw-HHF
23	104-8300	4	Nut-HF, NI
24	105-3993-03	1	Bracket-Support, Tube
25	32104-32	4	Screw-HWH
26	2412-41	1	Clamp-R
27	322-6	3	Screw-HH
28	3256-23	3	Washer-Plain



Mow Hydraulic Assembly

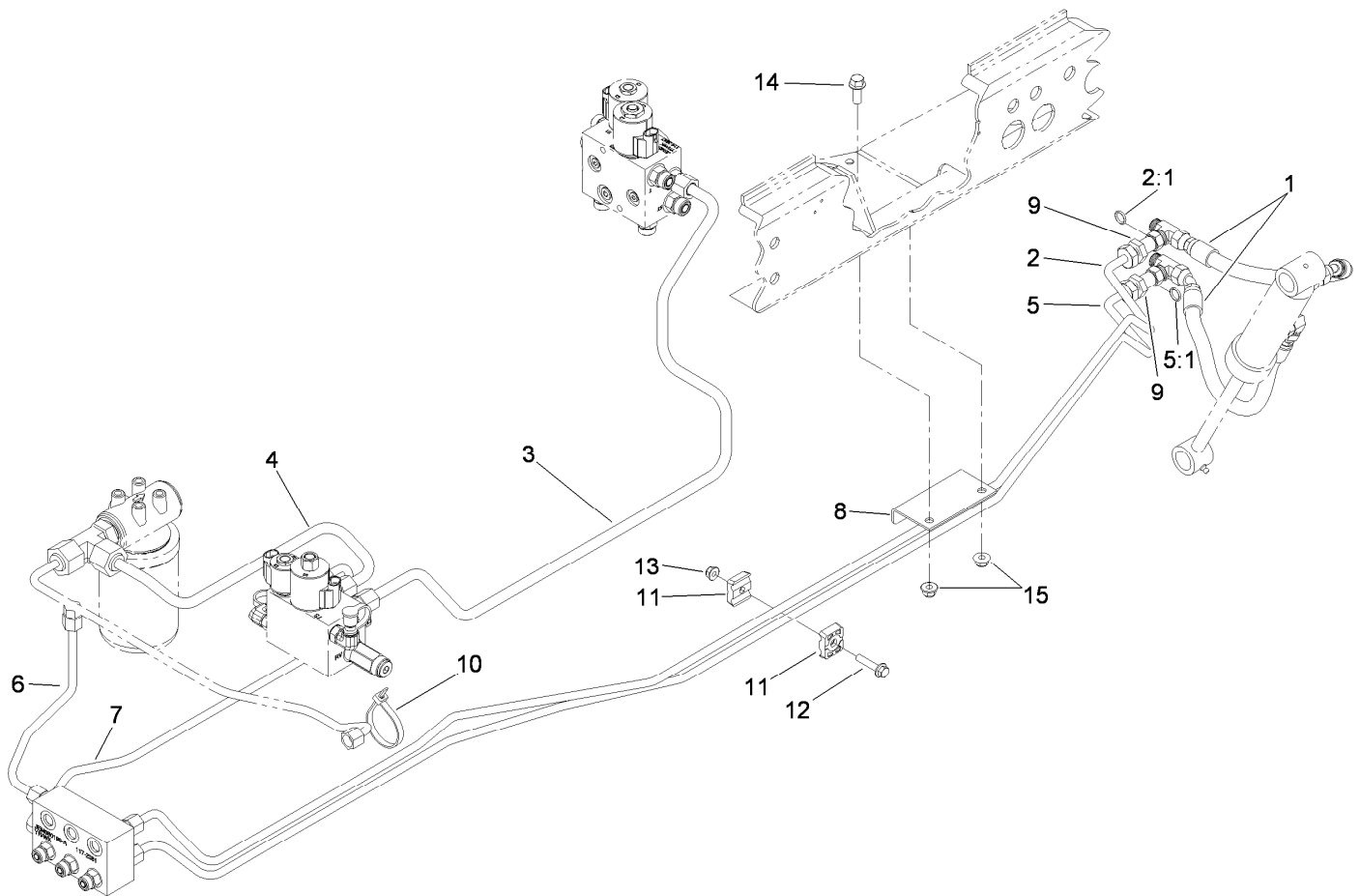
Ref.	Part Number	Qty.	Description
1	104-5483	2	Hose-HYD
2	115-4378	1	Tube-HYD
2:1	340-65	1	O-Ring
3	115-4398	1	Tube-HYD
4	340-70	2	Nut-Lock
5	115-9125	1	Tube-HYD
5:1	237-22	1	O-Ring
7	115-4375	1	Tube-HYD
7:1	237-65	1	O-Ring
8	115-4371	1	Tube-HYD
8:1	237-65	1	O-Ring
9	115-4370	1	Tube-HYD
9:1	237-65	1	O-Ring
10	69-9000	9	Spacer
11	240-3	9	Grommet-Rubber
12	340-74	9	Nut-Lock, Bulkhead
13	69-9010	18	Washer
14	340-68	1	Fitting-Tee, Bulkhead
14:1	237-22	3	O-Ring
15	115-4433	1	Tube-HYD
15:1	237-22	2	O-Ring

Ref.	Part Number	Qty.	Description
16	115-9139	1	Tube-HYD
16:1	237-22	2	O-Ring
17	115-4374	1	Tube-HYD
17:1	237-65	1	O-Ring
18	115-9127	1	Tube-HYD
19	105-3901	1	Tube ASM
19:1	237-65	2	O-Ring
21	105-3900	1	Tube ASM
21:1	237-65	2	O-Ring
23	115-4424	1	Tube ASM
23:1	340-65	1	O-Ring
24	340-154	2	Union-Bulkhead
24:1	237-22	2	O-Ring
25	56-7971	4	Clamp-Tube
26	340-128	2	Nut-Bulkhead
27	340-70	4	Nut-Lock
28	115-1794	1	Screw-HHF
29	3256-23	1	Washer-Plain
30	104-8300	2	Nut-HF, NI
31	322-13	1	Screw-HH
32	56-7973	2	Clamp-Tube



Mow Hydraulic Assembly (continued)

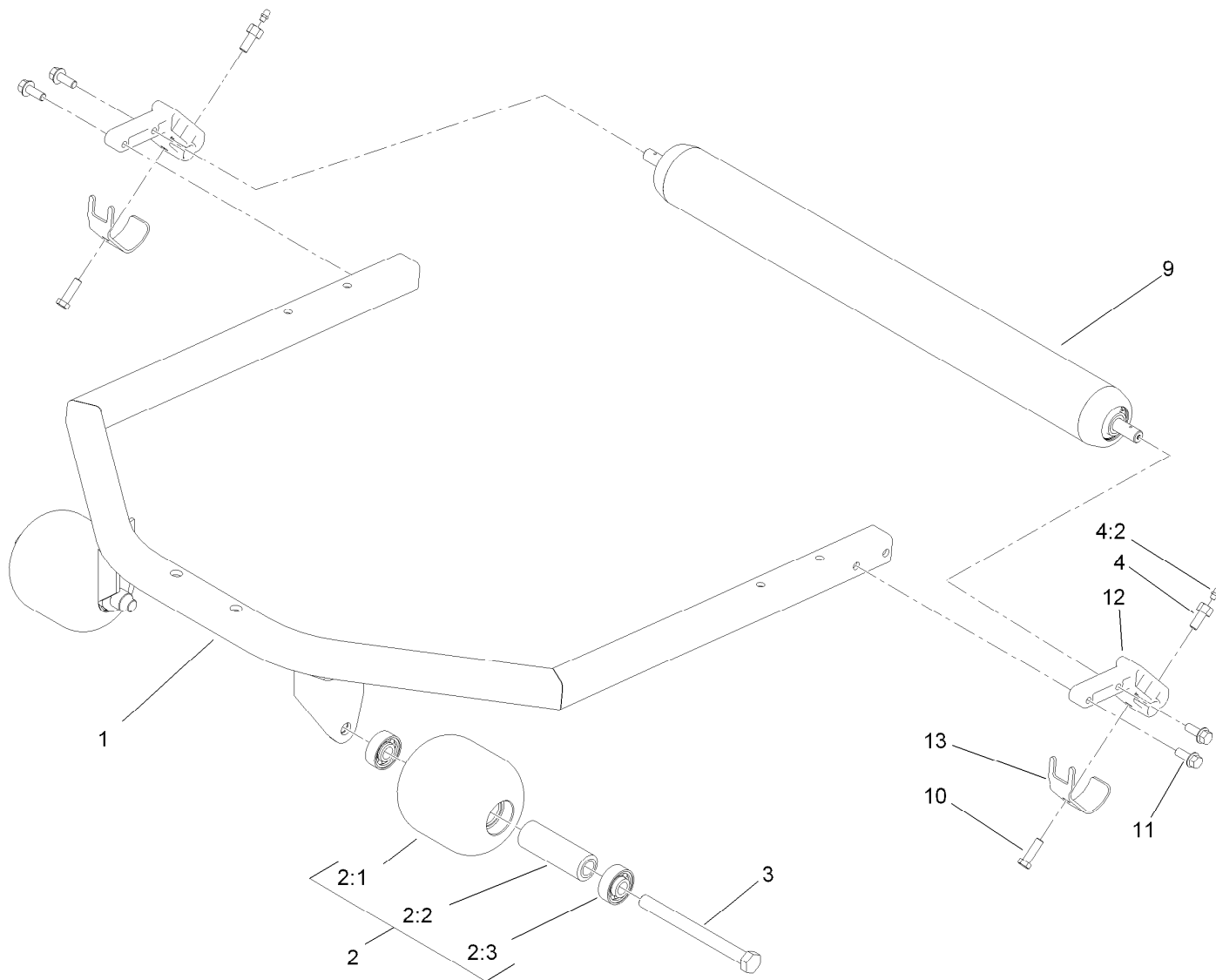
Ref.	Part Number	Qty.	Description
33	340-72	1	Fitting-Bulkhead, 90 DEG
33:1	237-65	2	O-Ring



Lift Hydraulic Assembly

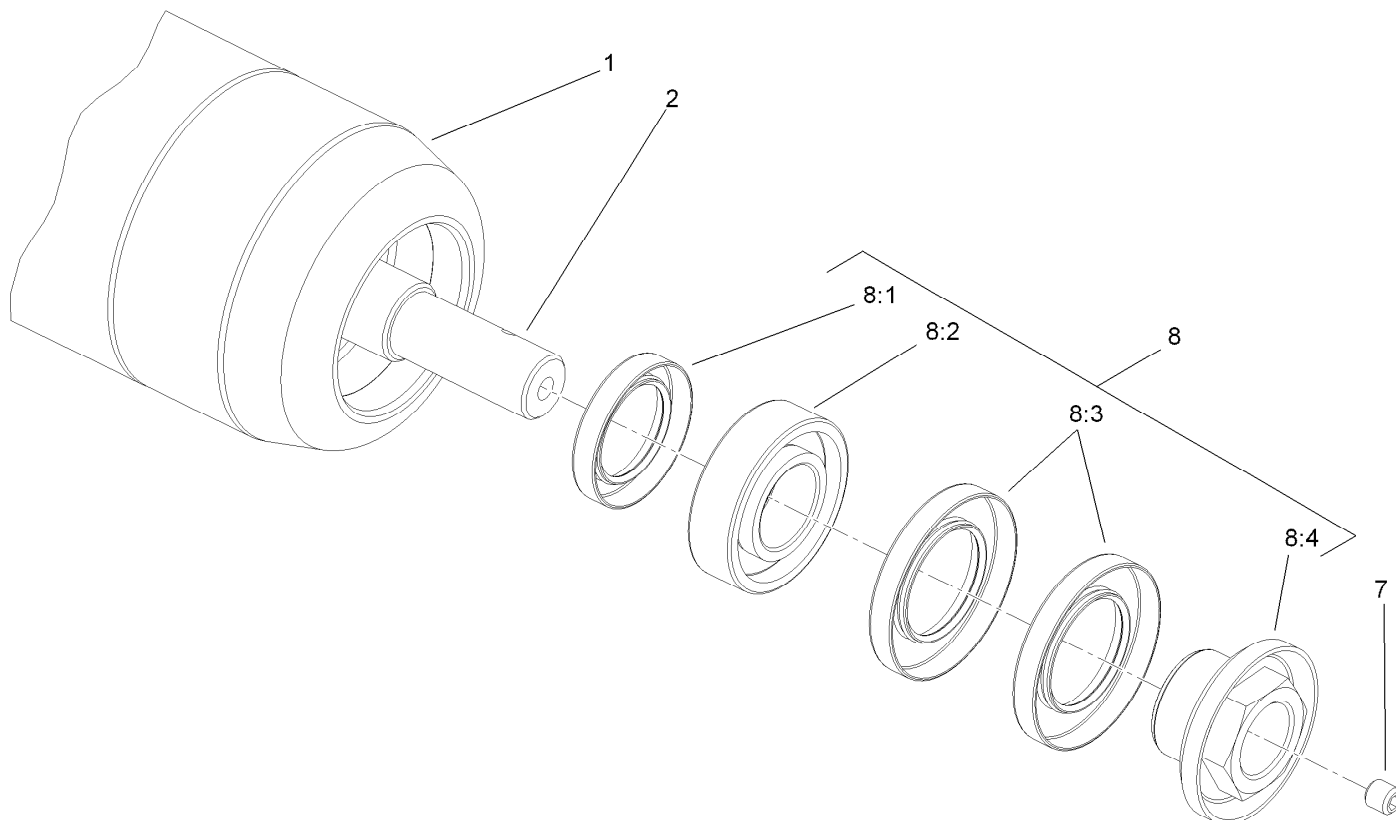
Ref.	Part Number	Qty.	Description
1	105-9238	4	Hose-HYD
2	105-3988	1	Tube ASM
2:1	237-22	1	O-Ring
3	114-8144	1	Tube-HYD
4	114-8143	1	Tube-HYD
5	105-3989	1	Tube ASM
5:1	237-22	1	O-Ring
6	115-9121	1	Tube-HYD
7	114-8142	1	Tube-HYD

Ref.	Part Number	Qty.	Description
8	105-3990-03	1	Bracket-Support, Tube
9	340-70	2	Nut-Lock
10	3334-945	1	Tie-Cable
11	56-7973	4	Clamp-Tube
12	115-1794	2	Screw-HHF
13	104-8300	2	Nut-HF, NI
14	3234-11	2	Screw-HHF
15	104-8301	1	Nut-HF, NI



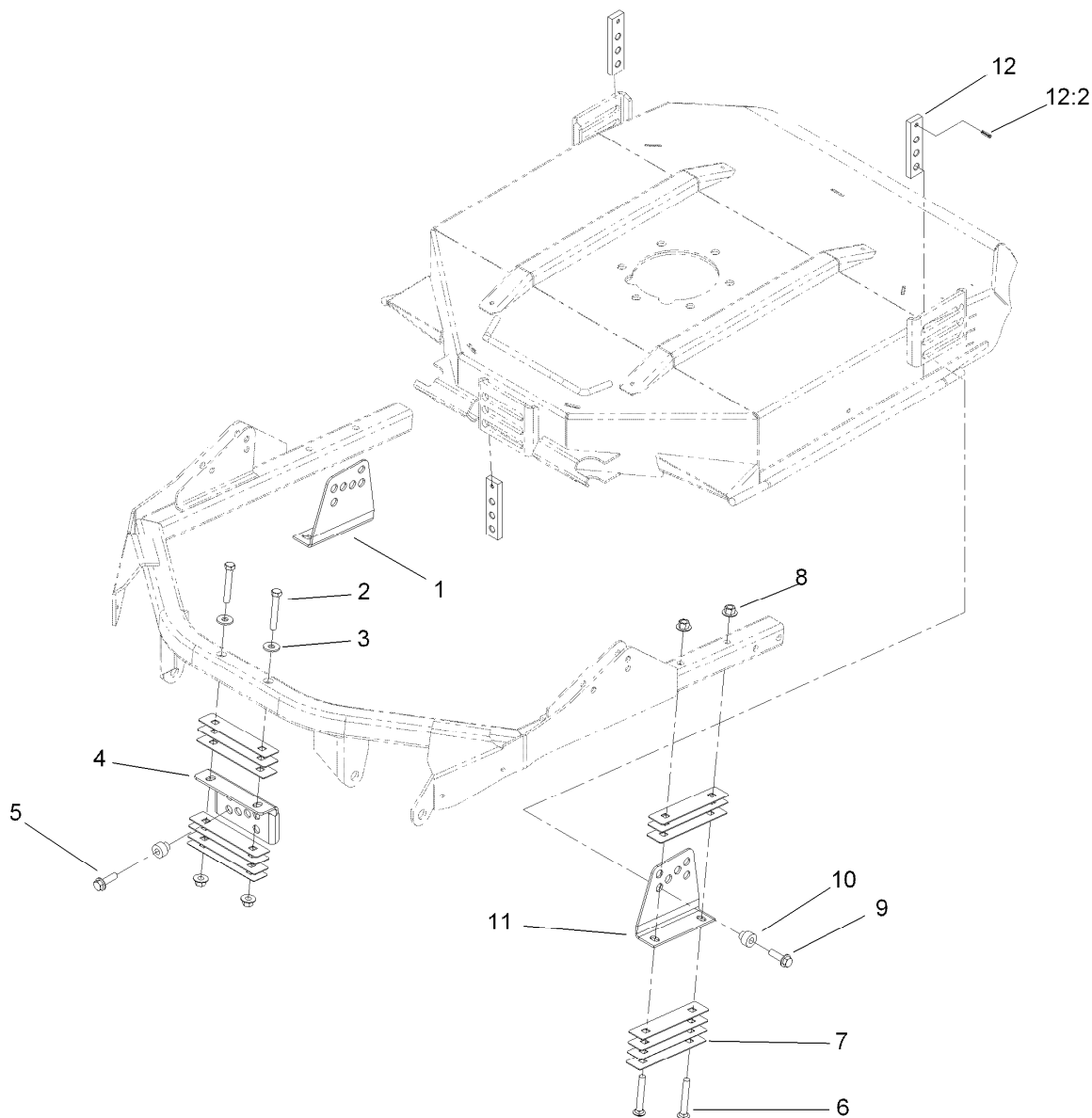
Roller and Carrier Frame Assembly

Ref.	Part Number	Qty.	Description
1	100-5780-03	1	Frame-Deck
2	115-3418	2	Roller ASM
2:1	104-1093	1	Roller
2:2	100-5762	1	Spacer-Bearing
2:3	120-3366	2	Bearing
3	327-15	2	Screw-HH
4	112-5270	2	Roller Shaft Screw ASM
4:2	302-5	1	Fitting-Grease
9	112-5265	1	Roller ASM
10	323-7	2	Screw-HH
11	3234-11	4	Screw-HHF
12	112-5268	2	Mount-Roller
13	107-7816	2	Bracket-Skid



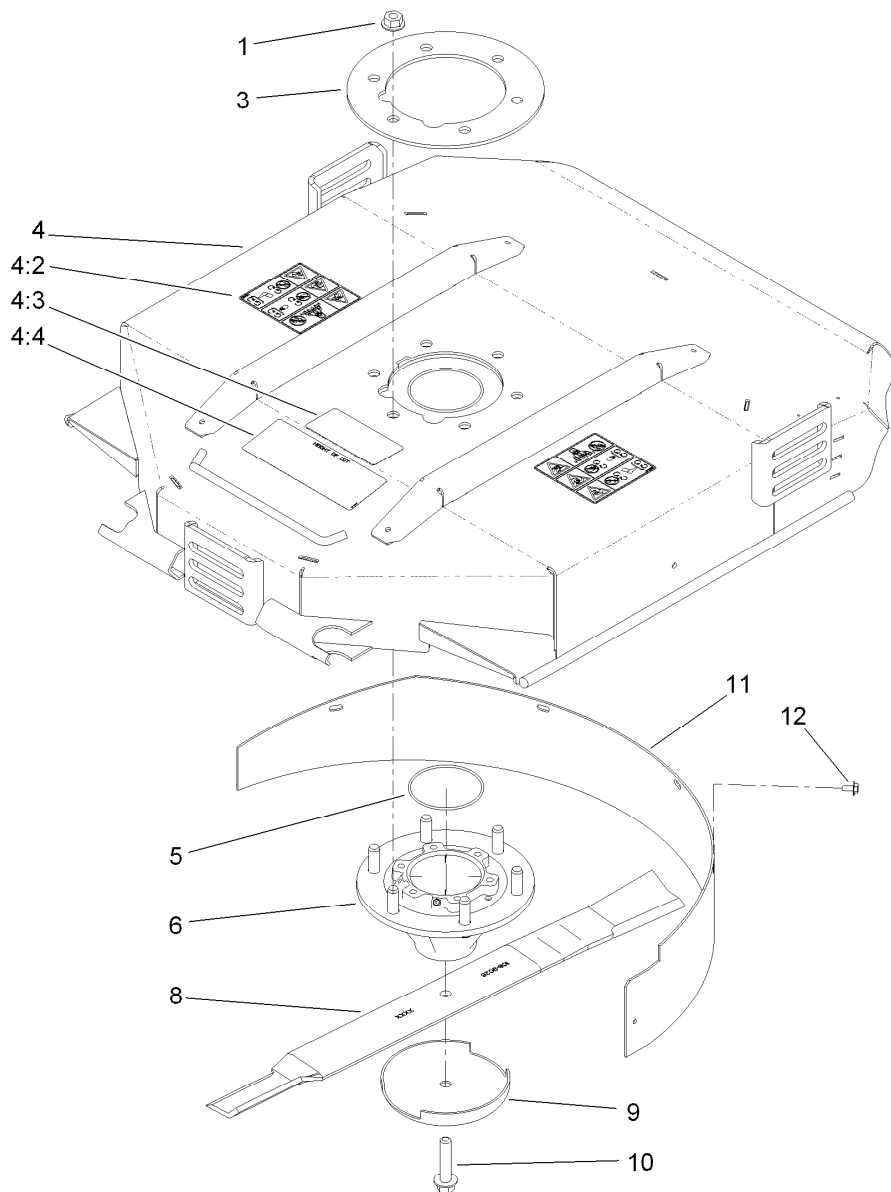
Roller Assembly No. 112-5265

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	112-5274-03	1	Tube ASM
2	117-5100	1	Shaft-Rear Roller
7	108-0989	2	Screw-Set
8	114-5430	1	Rm/Gm Roller Rebuild Kit
8:1	114-3717	2	Seal-Oil
8:2	112-5290	2	Bearing-Steel, Stainless
8:3	112-7494	4	Seal
8:4	114-5411	2	Nut-Lock, Bearing



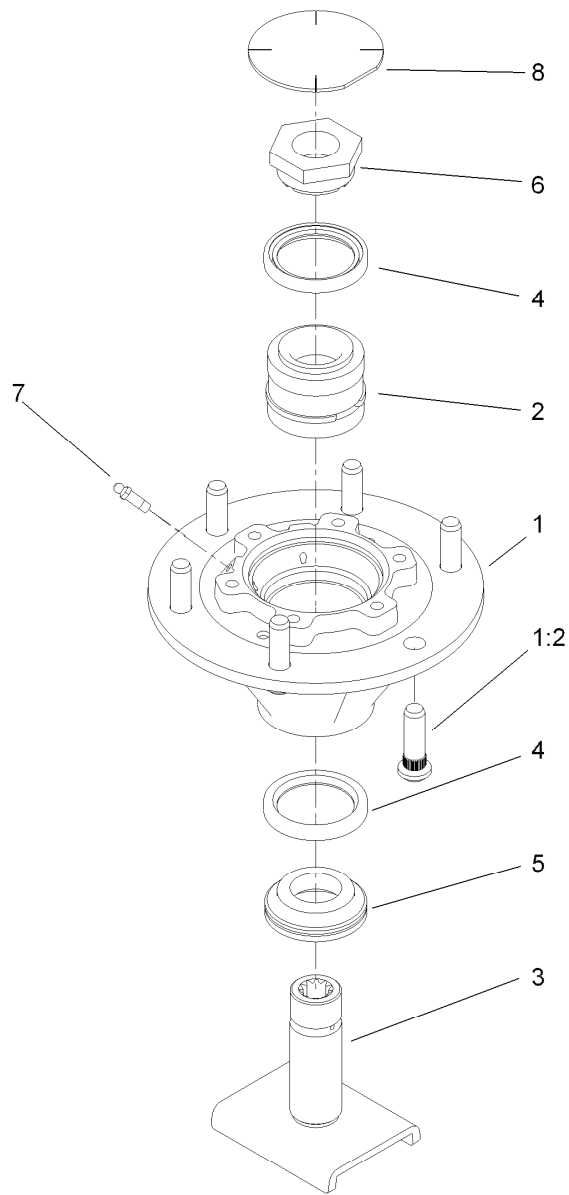
Height-of-Cut Bracket Assembly

Ref.	Part Number	Qty.	Description
1	100-5797-03	1	Bracket-HOC, RH
2	323-12	2	Screw-HH
3	80-6990	2	Washer-Hardened
4	104-1052-03	1	Bracket-HOC, Front
5	100-5799	18	Shim-HOC, .060 Inch
6	3231-9	4	Screw-CARR
7	104-4641	3	Shim-HOC, .030 Inch
8	32128-43	6	Nut-Flange
9	3234-24	3	Screw-HHF
10	105-9226	3	Spacer-HOC
11	104-4624-03	1	Bracket-HOC, LH
12	105-9225	3	HOC Plate ASM
12:2	32121-3	1	Pin-Spring



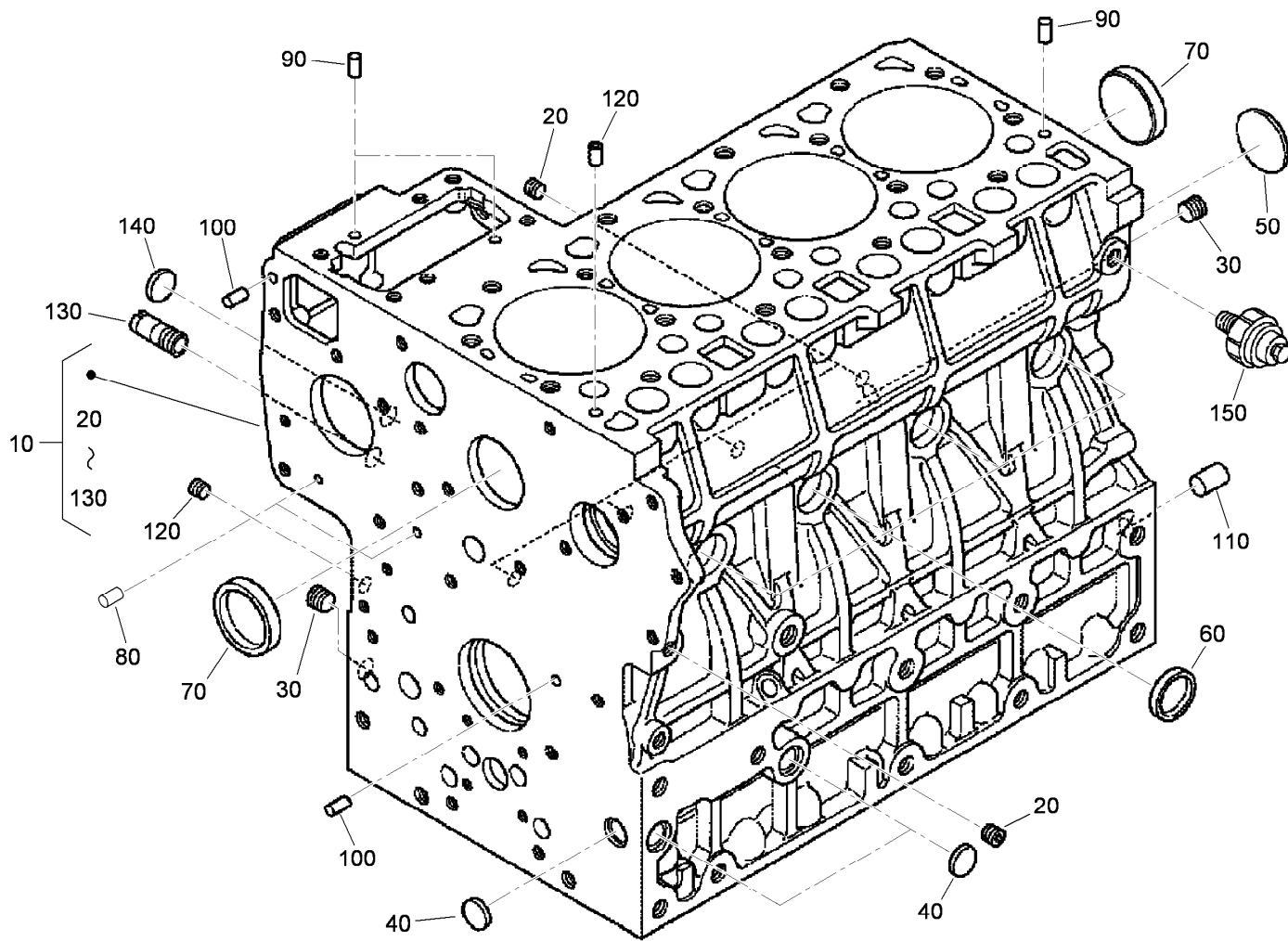
Chamber, Blade and Spindle Assembly

Ref.	Part Number	Qty.	Description
1	32128-39	6	Nut-HHF
3	104-1051-03	1	Plate-Spindle
4	115-3479	1	Chamber ASM
4:2	117-4764	2	Decal-Danger
4:3	93-7818	1	Decal-Torque, Blade Bolt
4:4	104-1086	1	Decal-HOC
5	237-161	1	O-Ring
6	115-3435	1	Spindle ASM
8	107-0235-03	1	Blade-Atomic
8	108-9026-03	1	Blade-Combo
9	72-9361	1	Cup-Scalp, Anti
10	92-5816	1	Bolt-Blade
11	108-9025-01	1	Baffle-Mulching
12	46-8560	5	Screw-HHFTF



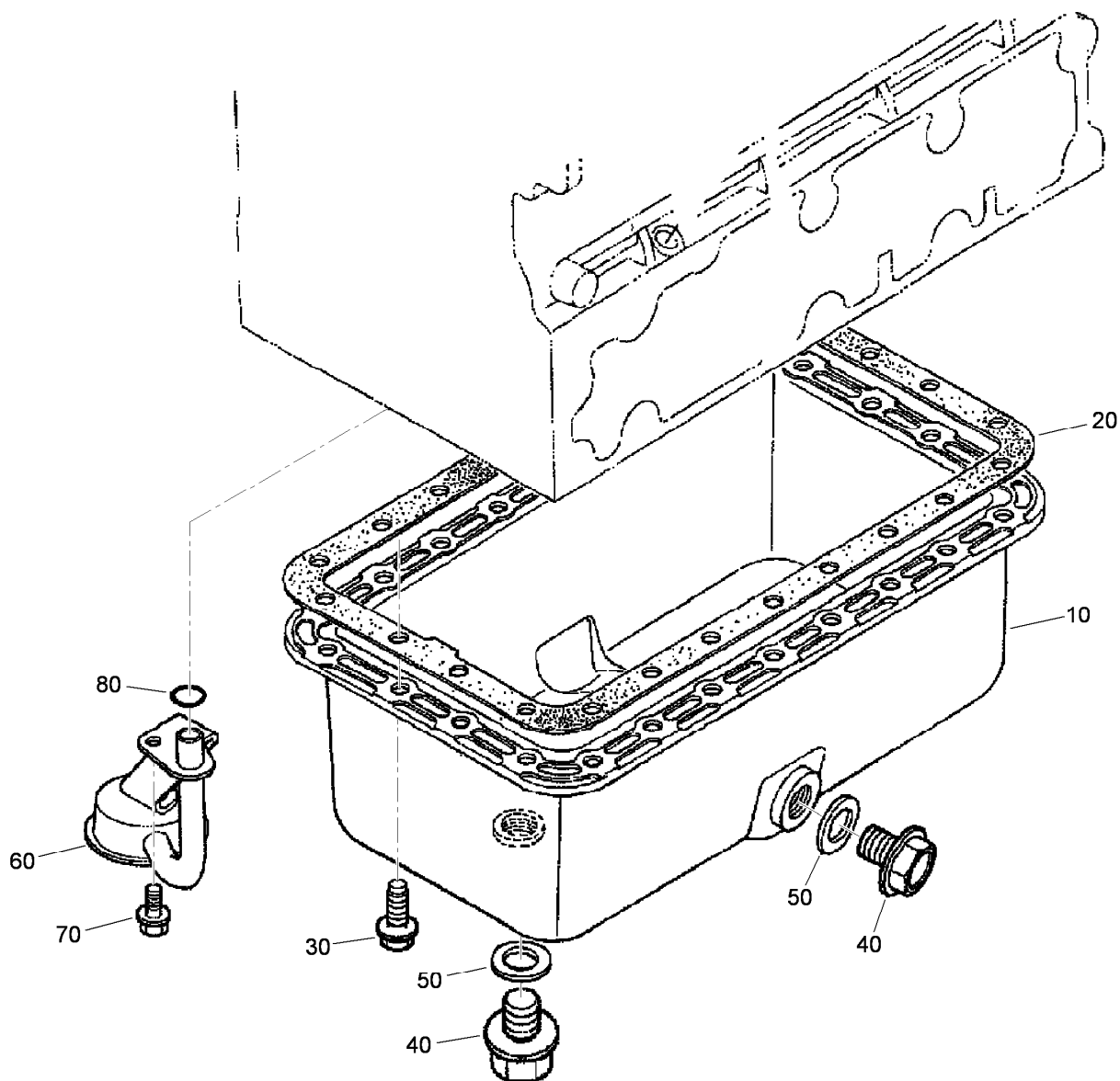
Spindle Assembly No. 115-3435

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	115-3434	1	Spindle
1:2	10-6830	6	Stud-Type, Drive
2	100-5703	1	Spacer And Bearing ASM
3	100-5705	1	Spindle Shaft ASM
4	253-154	2	Seal-Oil
5	69-6950	1	Spacer-Shaft, Spindle
6	100-5709	1	Nut-Spindle, Spcl
7	302-62	2	Fitting-Grease
8	94-2703	1	Plug



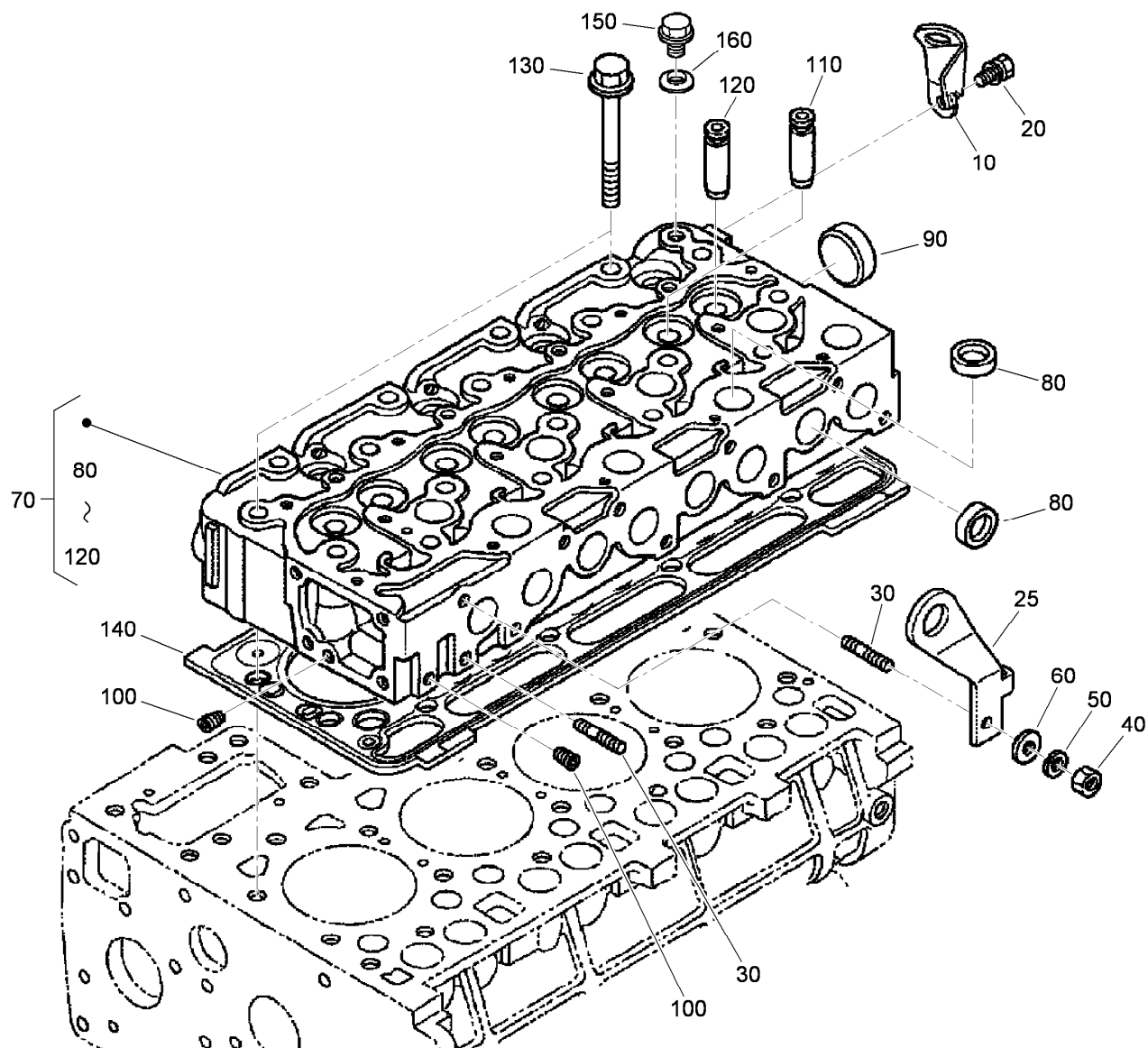
Crankcase Assembly

Ref.	Part Number	Qty.	Description
10	115-8500	1	Crankcase ASM
20	98-7487	2	Plug
30	107-0107	6	Plug
40	98-9379	2	Plug-Expansion
50	98-9668	3	Plug-Expansion
60	98-7500	6	Cap-Sealing
70	98-7501	2	Cap-Sealing
80	98-7502	2	Pin-Straight
90	98-7503	2	Pin-Straight
100	98-7504	2	Pin-Straight
110	98-7505	1	Pin-Straight
120	98-7506	1	Pin-Pipe
130	100-9153	1	Pipe-Return, Water
140	100-2020	1	Cap-Sealing
150	98-9416	1	Switch-Oil



Oil Pan Assembly

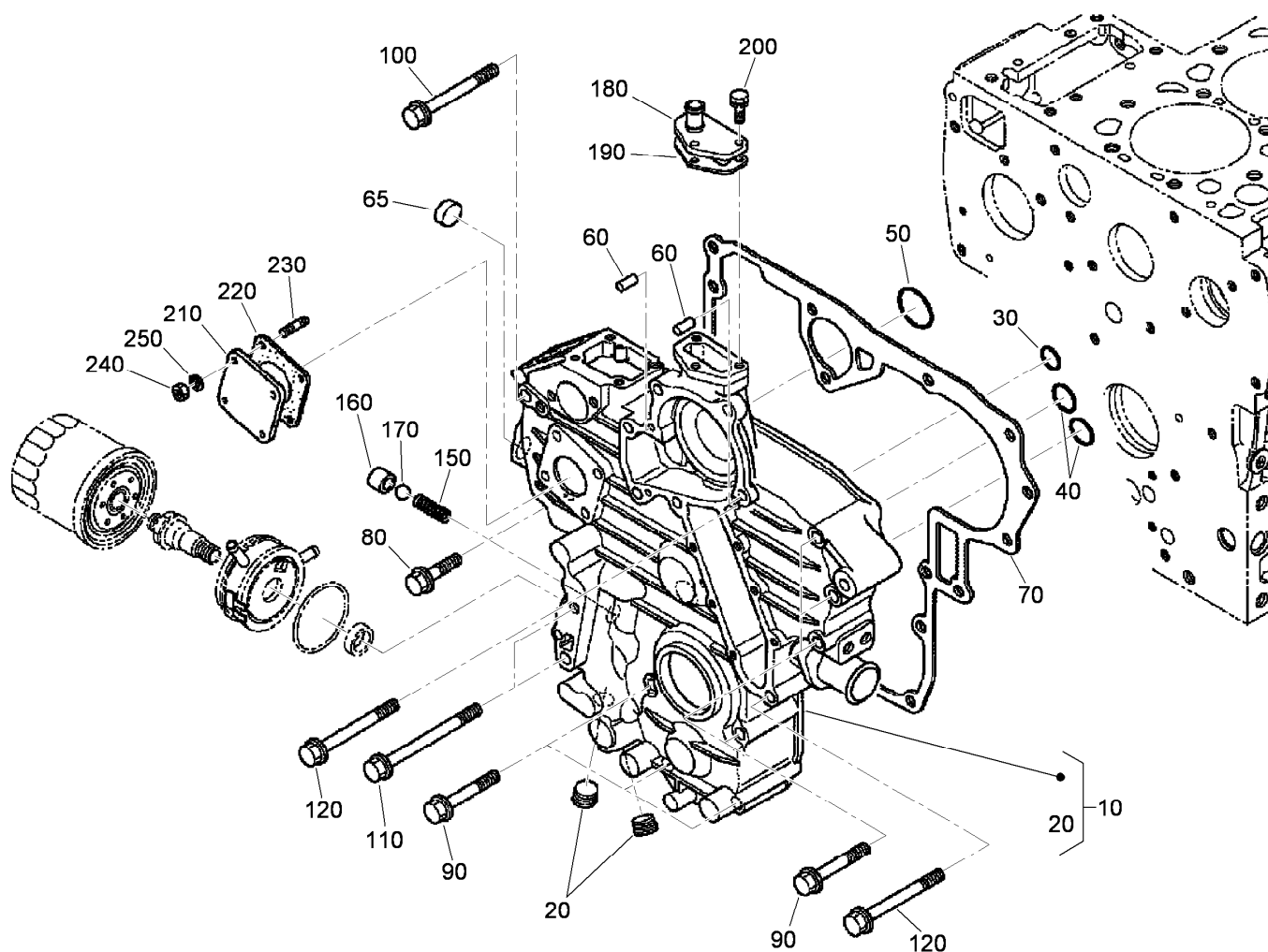
Ref.	Part Number	Qty.	Description
10	115-8501	1	Oil Pan ASM
20	108-7053	1	Gasket-Pan, Oil
30	115-8502	24	Bolt-Flange
40	98-9686	2	Plug-Drain
50	98-9399	2	Gasket
60	115-8503	1	Filter-Oil
70	115-8504	1	Bolt-Flange
80	108-7054	1	O-Ring



Cylinder Head Assembly

Ref.	Part Number	Qty.	Description
10	98-7530	1	Hook-Engine
20	98-7526	1	Bolt
25	115-8505	1	Hook
30	115-8506	2	Stud
40	98-7534	1	Nut
50	105-2893	1	Washer-Spring
60	98-7536	1	Washer-Plain
70	115-8507	1	Head-Cylinder
80	98-7538	12	Cap-Sealing
90	98-7539	1	Cap-Sealing
100	98-7540	2	Plug
110	98-7541	4	Guide-Valve, Intake
120	115-8508	4	Guide-Valve, Exhaust

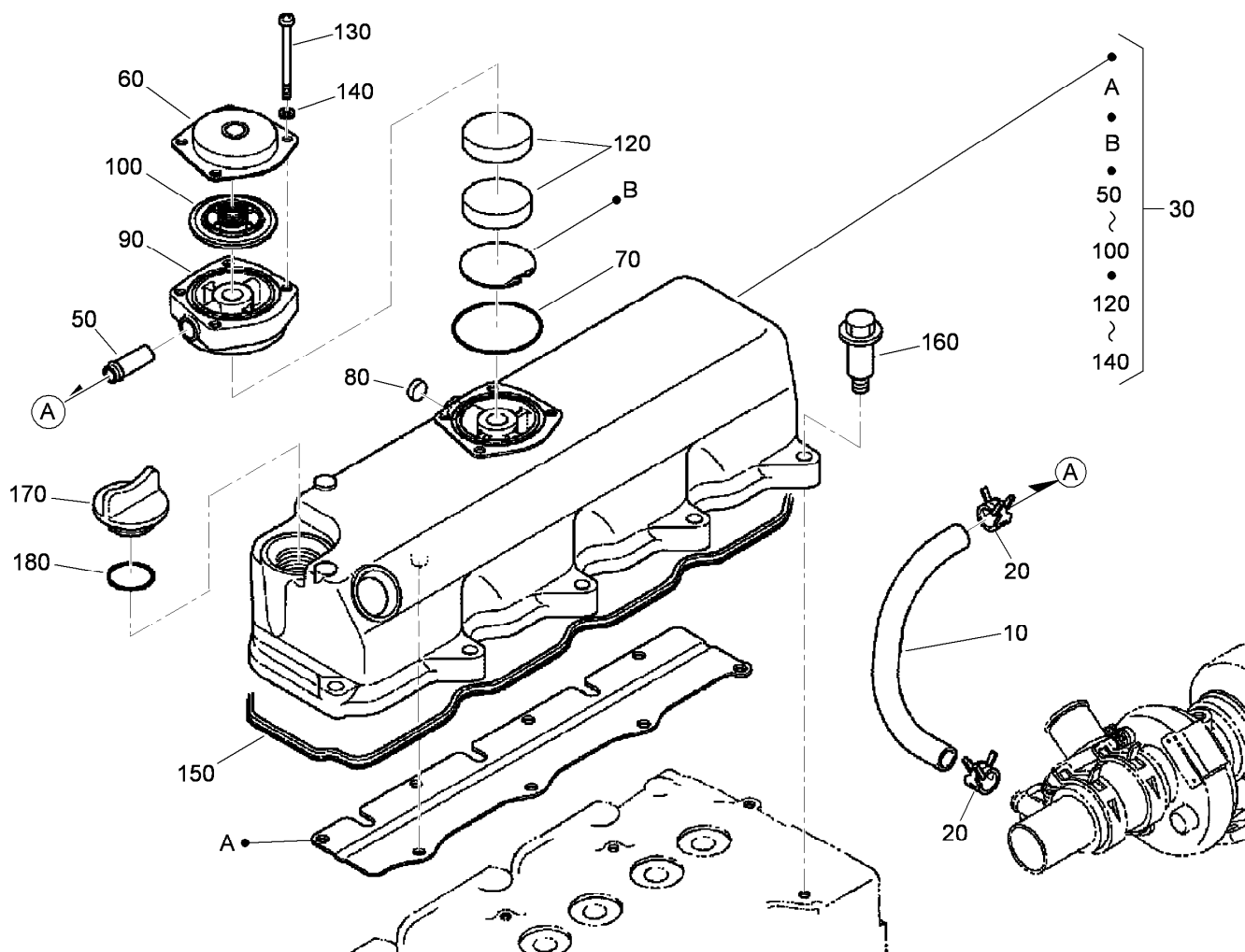
Ref.	Part Number	Qty.	Description
130	98-7543	18	Bolt-Head, Cylinder
140	115-8647	1	Gasket-Head, Cylinder (1.15Mm)
140	115-8509	1	Gasket-Head, Cylinder (1.20Mm)
140	115-8510	1	Gasket-Head, Cylinder (1.25Mm)
140	115-8511	1	Gasket-Head, Cylinder (1.30Mm)
140	115-8512	1	Gasket-Head, Cylinder (1.35Mm)
150	98-7762	1	Plug
160	98-7763	1	Washer-W/Rubber



Gear Case Assembly

Ref.	Part Number	Qty.	Description
10	115-8513	1	Gear Case ASM
20	98-9598	2	Plug
30	107-0104	1	O-Ring
40	115-8514	2	O-Ring
50	107-0106	1	O-Ring
60	98-7504	2	Pin-Straight
65	115-8515	1	Cap-Sealing
70	115-8516	1	Gasket-Case, Gear
80	108-7085	1	Bolt-Flange
90	115-8517	7	Bolt-Flange
100	115-8518	1	Bolt-Flange
110	115-8519	2	Bolt-Flange

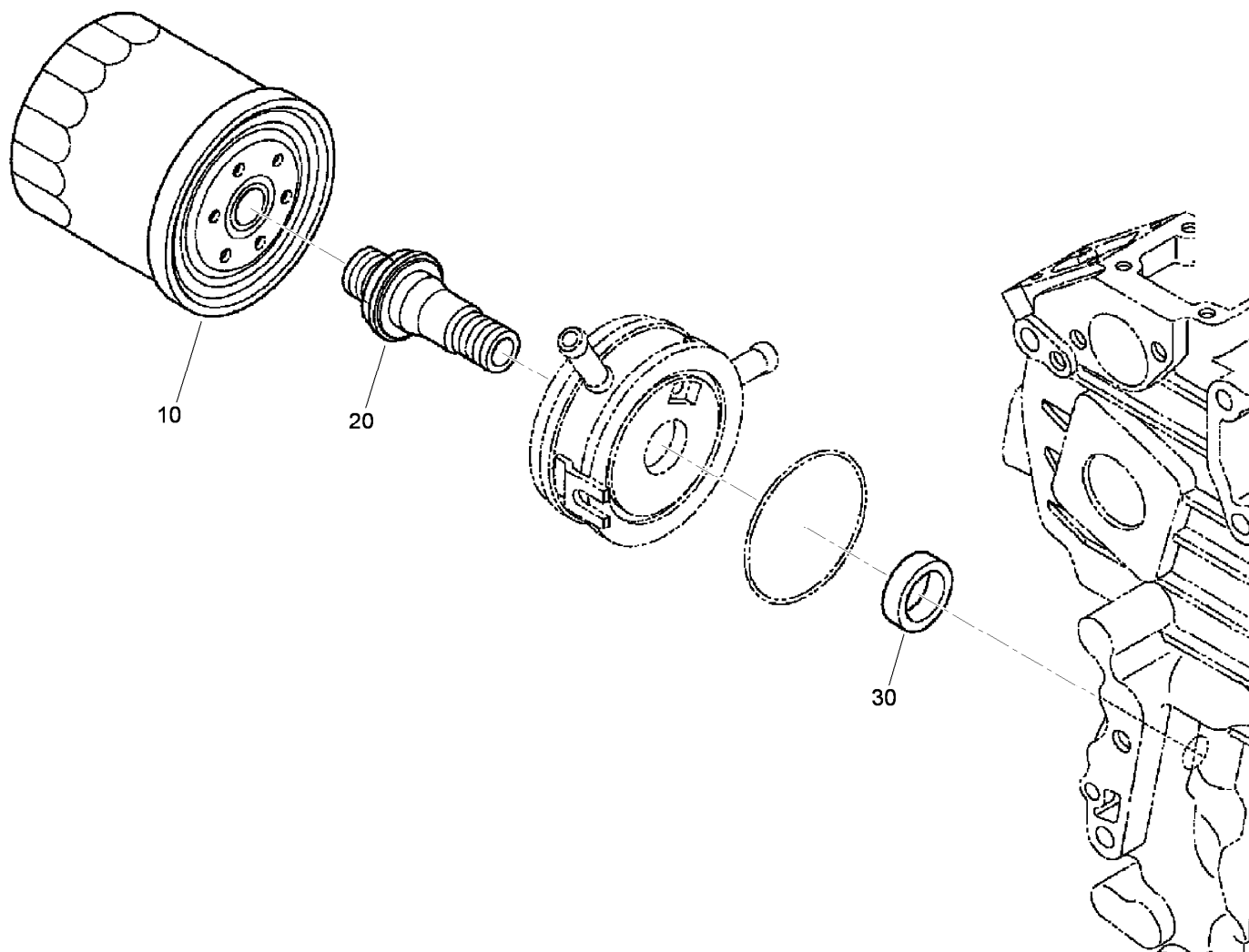
Ref.	Part Number	Qty.	Description
120	115-8520	4	Bolt-Flange
150	98-7563	1	Spring
160	98-7564	1	Seat-Valve
170	98-7565	1	Ball
180	98-7566	1	Flange-Return, Water
190	115-8521	1	Gasket-Flange, Return
200	98-7568	3	Bolt
210	98-7569	1	Cover
220	115-8522	1	Gasket-Meter, Hour
230	98-7571	4	Stud
240	98-7572	4	Nut
250	98-9367	4	Washer-Spring



Cylinder Head Cover Assembly

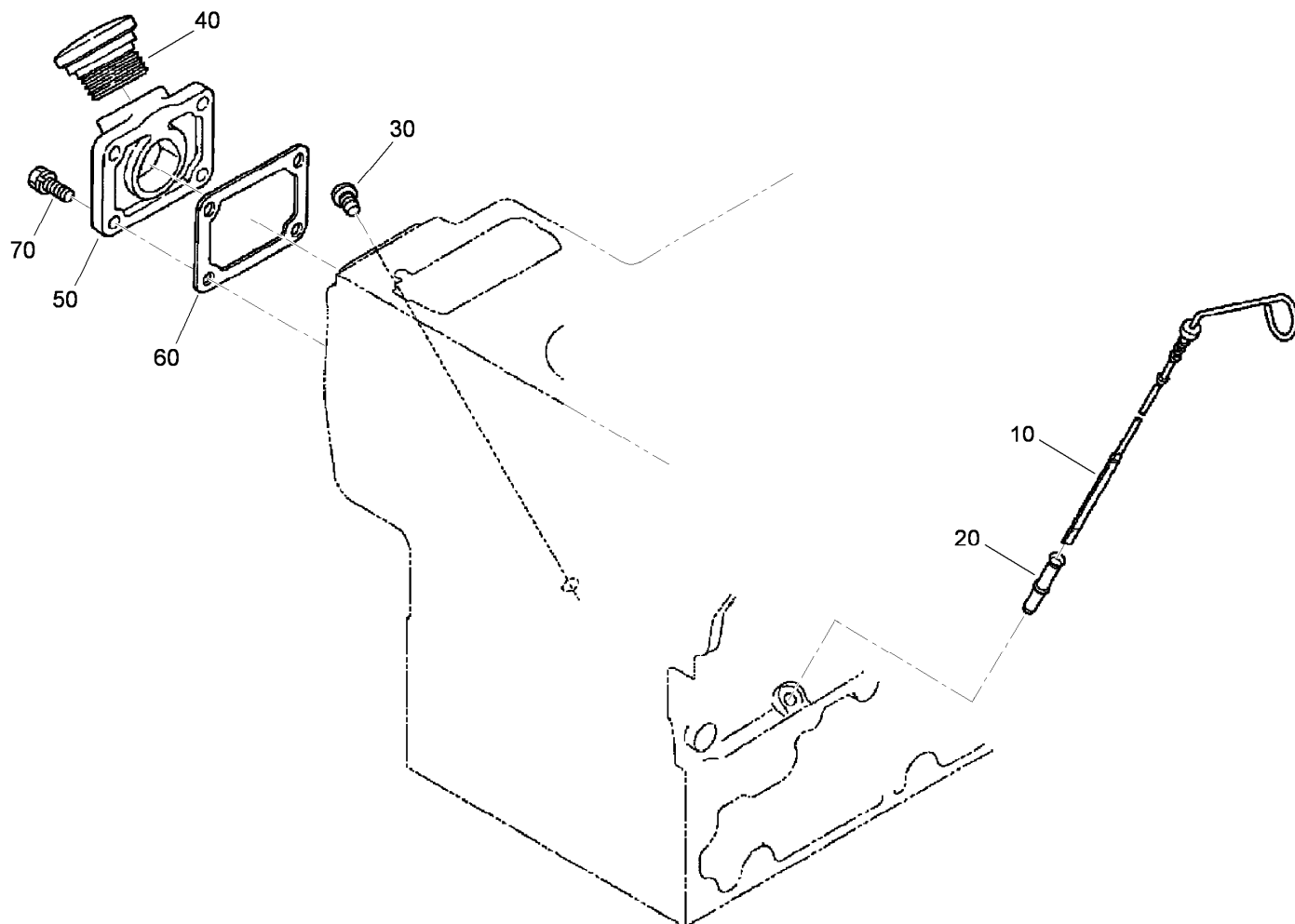
Ref.	Part Number	Qty.	Description
10	115-8523	1	Tube-Breather, Turbo
20	115-8524	2	Clamp-Hose
30	115-8525	1	Cylinder Head Cover ASM
50	98-7766	1	Pipe-Return, Water
60	110-3714	1	Cover-Breather
70	108-7061	1	O Ring-Breather
80	115-3042	1	Cap-Sealing
90	115-8526	1	Spacer-Breather

Ref.	Part Number	Qty.	Description
100	110-3715	1	Valve-Breather
120	98-9493	2	Element-Breather
130	115-3044	4	Screw-Pan Head
140	100-2204	4	Washer-Spring
150	108-7062	1	Gasket-Cover, Head
160	108-7063	10	Bolt
170	98-9449	1	Plug-Filler, Oil
180	108-7064	1	O-Ring



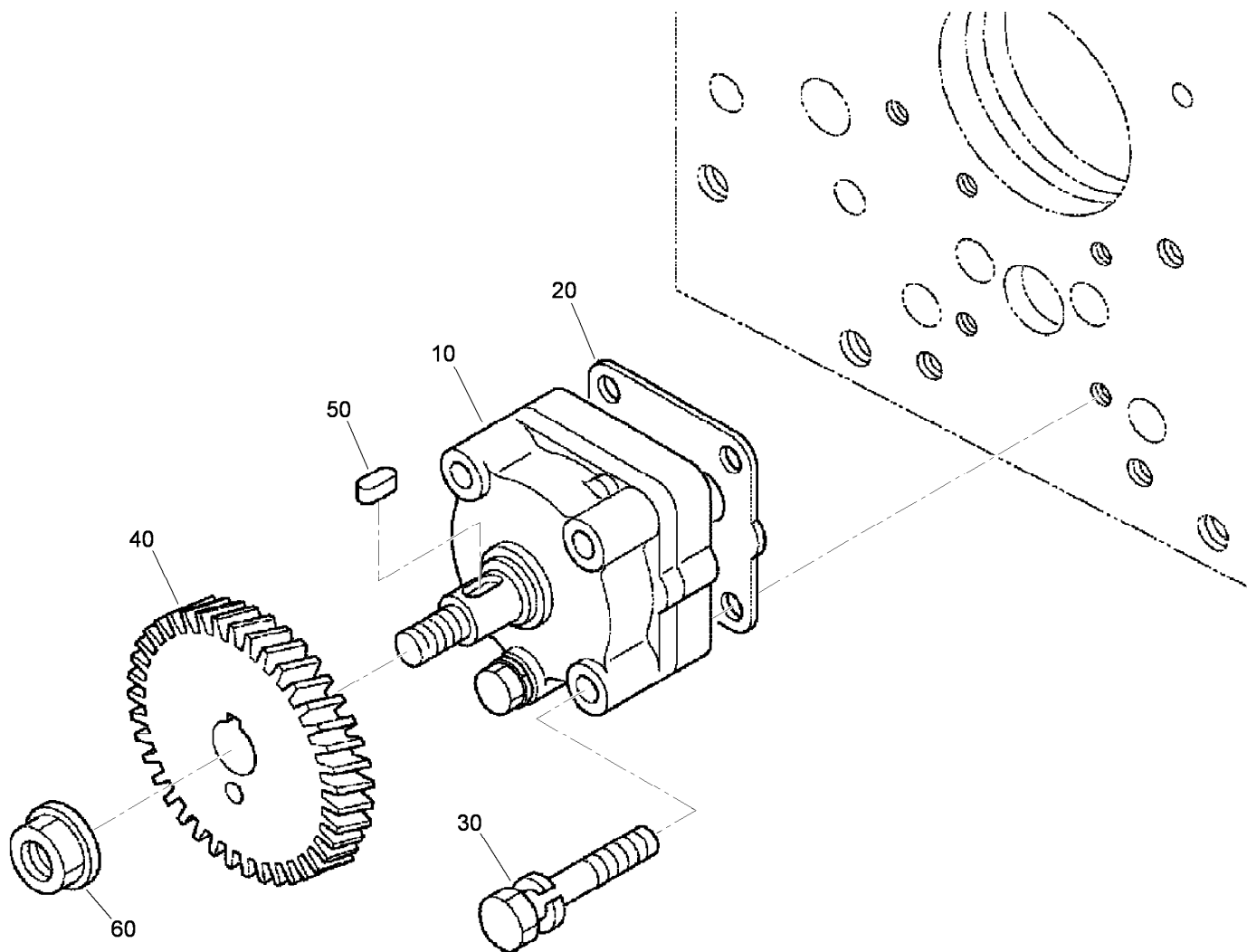
Oil Filter Assembly

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
10	104-5169	1	Filter-Oil
20	115-8528	1	Connector
30	115-8529	1	Collar



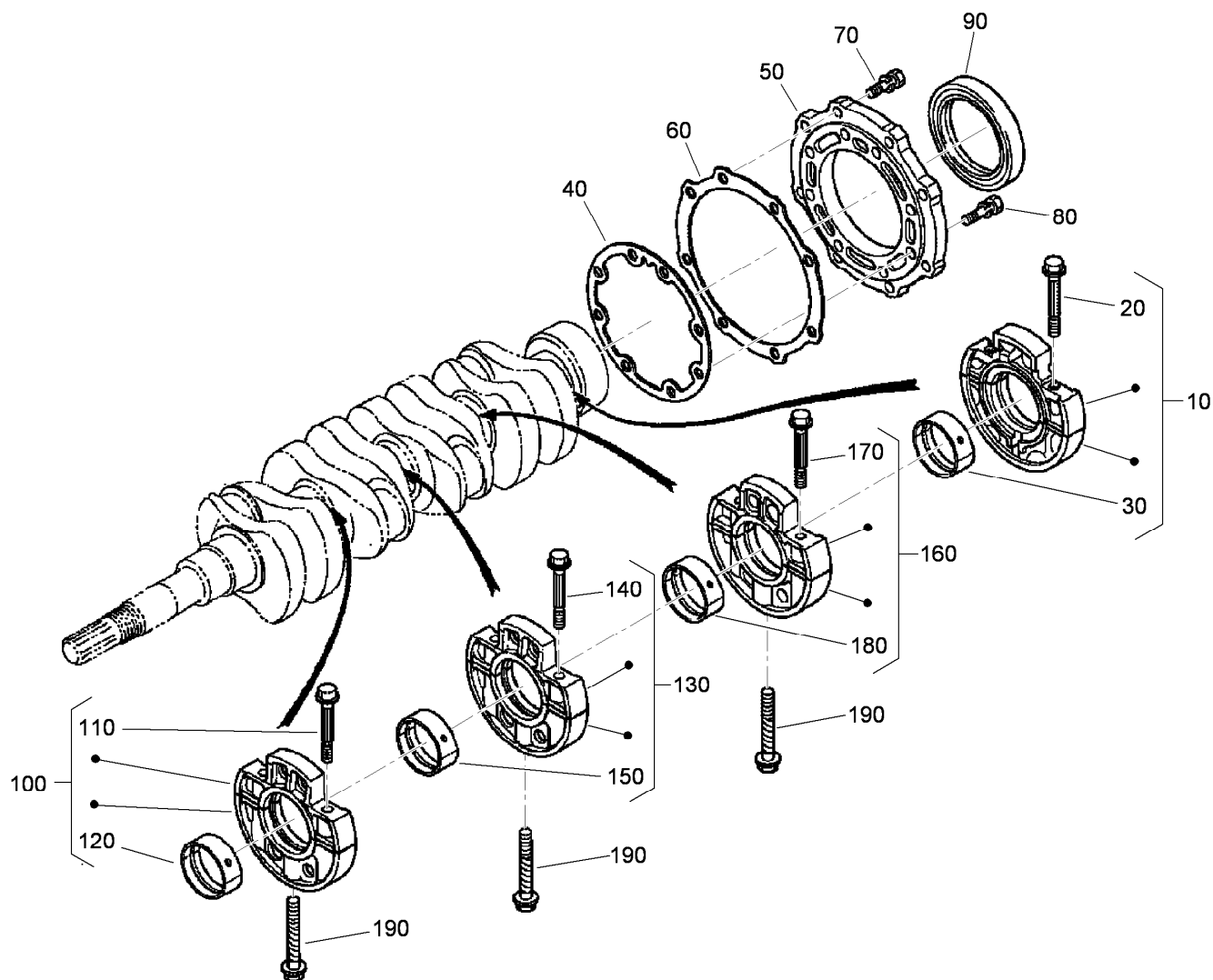
Dipstick and Guide Assembly

Ref.	Part Number	Qty.	Description
10	115-8530	1	Gauge-Oil
20	105-4580	1	Guide-Gauge, Oil
30	110-3720	1	Plug-Gauge, Oil
40	115-8531	1	Plug-Filler, Oil
50	115-8532	1	Flange-Filler, Oil
60	98-7604	1	Gasket-Cover, Pump
70	98-7605	4	Bolt



Oil Pump Assembly

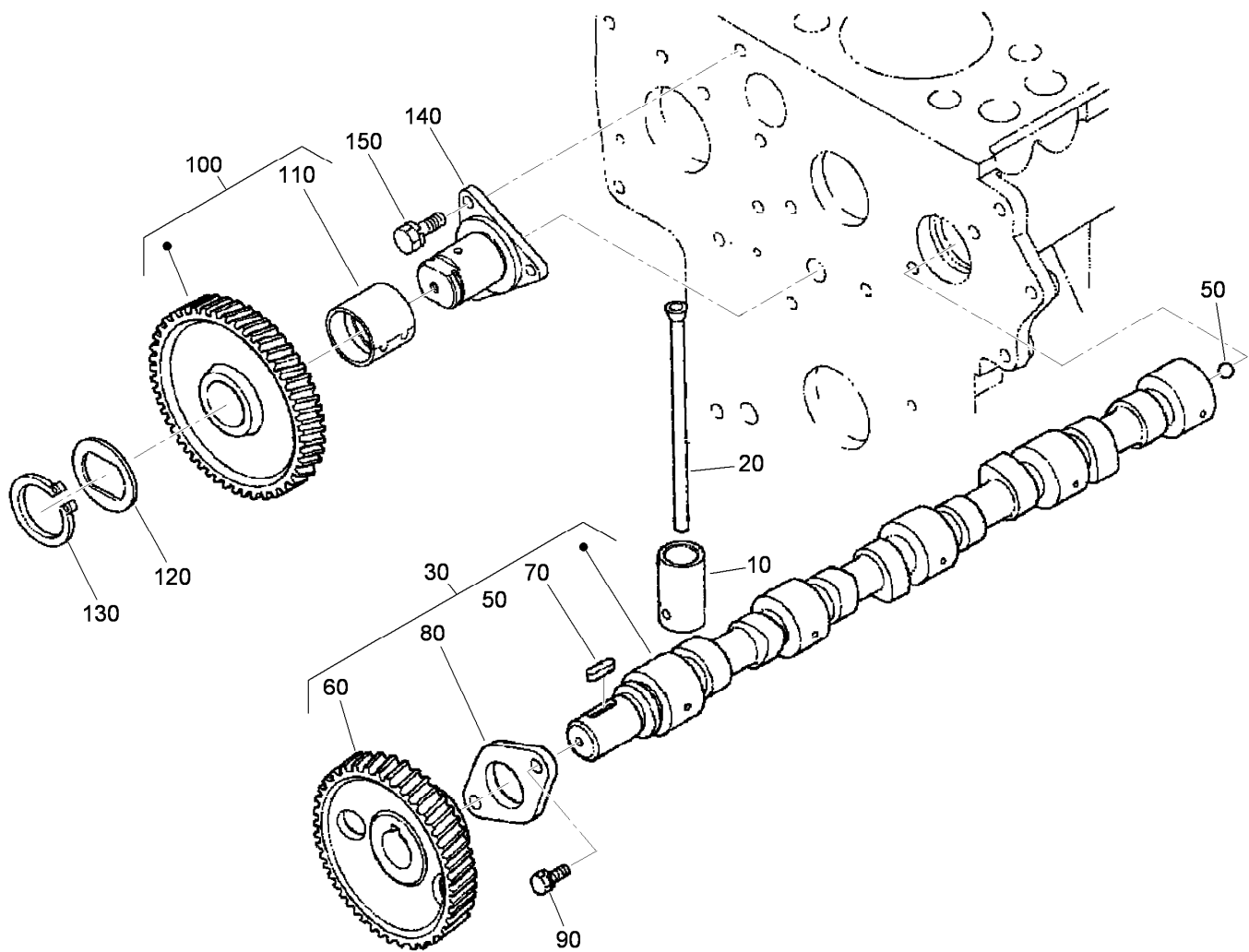
Ref.	Part Number	Qty.	Description
10	98-7512	1	Oil Pump ASM
20	98-7513	1	Gasket-Pump, Oil
30	105-3797	4	Bolt
40	115-8533	1	Gear-Drive, Oil Pump
50	98-7517	1	Key-Feather
60	98-7518	1	Nut-Flange



Main Bearing Case Assembly

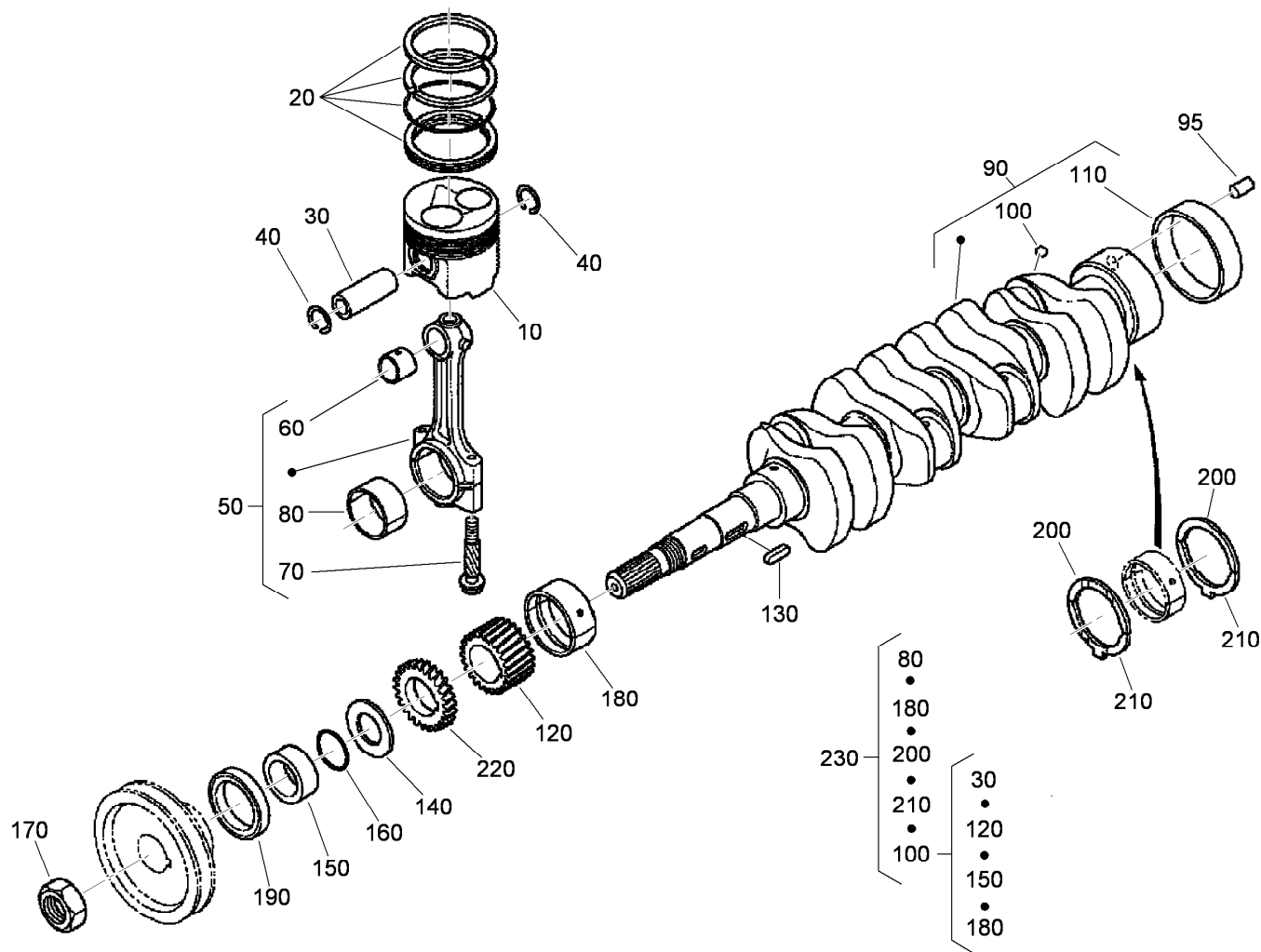
Ref.	Part Number	Qty.	Description
10	115-8534	1	Wheel Bearing Case ASM
20	108-7066	2	Bolt-Case, Bearing
30	108-7067	1	Metal-Crankshaft (STD)
30	108-7068	1	Metal-Crankshaft (-0.20Mm)
30	108-7069	1	Metal-Crankshaft (-0.40Mm)
40	108-7070	1	Gasket-Case, Bearing
50	117-8843	1	Cover-Case, Bearing
60	98-7437	1	Gasket-Case Cover, Bearing
70	98-7438	8	Bolt
80	98-7439	8	Bolt
90	108-7072	1	Seal-Oil
100	115-8535	1	Main Bearing Case ASM
110	108-7066	2	Bolt-Case, Bearing

Ref.	Part Number	Qty.	Description
120	108-7067	1	Metal-Crankshaft (STD)
120	108-7068	1	Metal-Crankshaft (-0.20Mm)
120	108-7069	1	Metal-Crankshaft (-0.40Mm)
130	108-7074	1	Main Bearing Case ASM
140	108-7066	2	Bolt-Case, Bearing
150	108-7069	1	Metal-Crankshaft (-0.40Mm)
150	108-7068	1	Metal-Crankshaft (-0.20Mm)
150	108-7067	1	Metal-Crankshaft (STD)
160	115-8536	1	Main Bearing Case ASM
170	108-7066	2	Bolt-Case, Bearing
180	108-7067	1	Metal-Crankshaft (STD)
180	108-7068	1	Metal-Crankshaft (-0.20Mm)
180	108-7069	1	Metal-Crankshaft (-0.40Mm)
190	98-7444	3	Bolt-Case, Bearing



Cam Shaft and Idle Gear Assembly

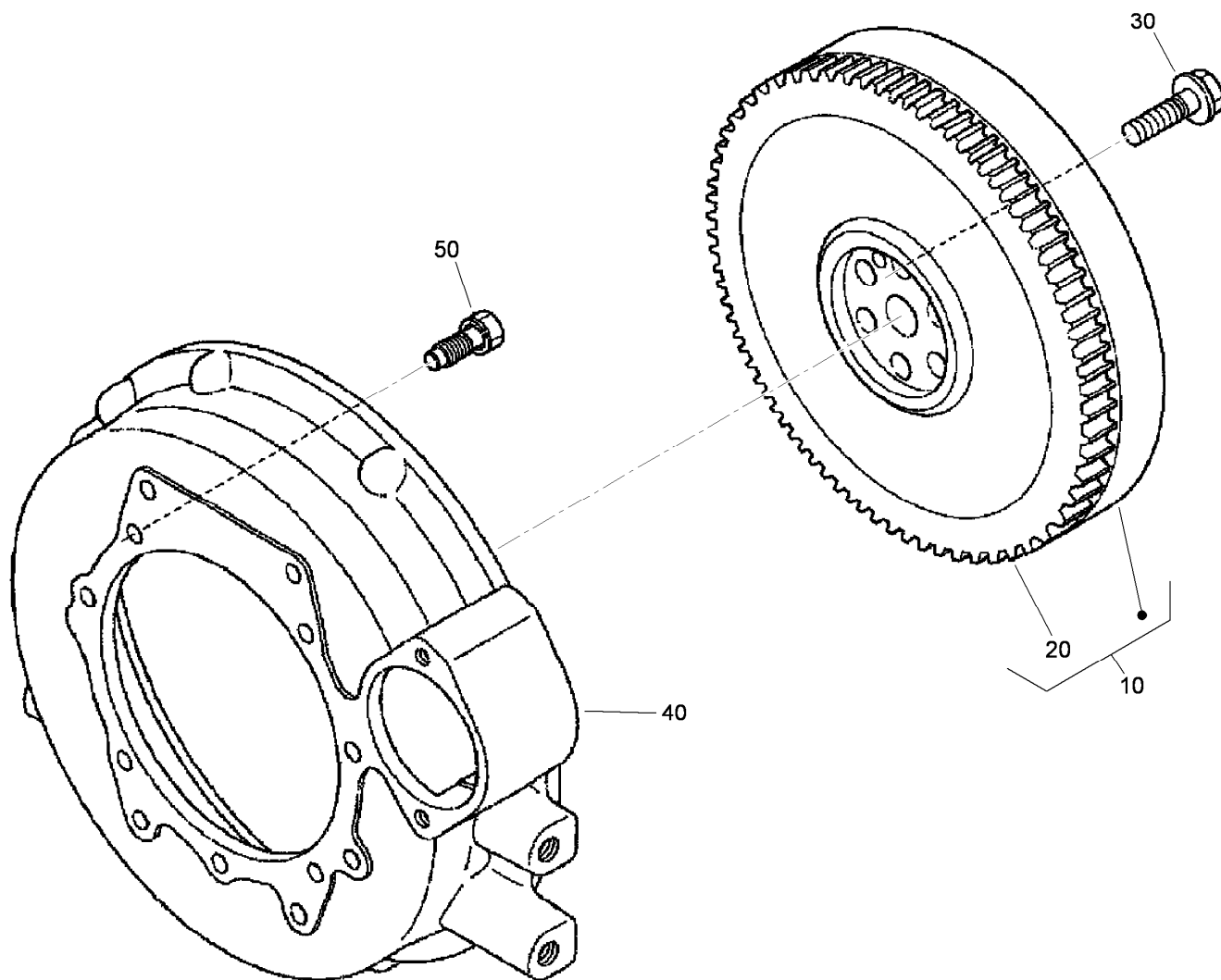
Ref.	Part Number	Qty.	Description
10	98-7445	8	Tappet
20	115-8537	8	Rod-Push
30	115-8538	1	Camshaft ASM
50	110-3729	1	Ball
60	115-8539	1	Gear-Cam
70	98-7451	1	Key-Feather
80	98-7452	1	Stopper-Camshaft
90	98-7453	2	Bolt
100	107-0109	1	Gear-Idler
110	107-0110	1	Bushing-Gear, Idler
120	107-0111	1	Collar
130	107-0112	1	Circlip-External
140	115-8646	1	Shaft-Gear, Idler
150	98-7453	3	Bolt



Piston and Crankshaft Assembly

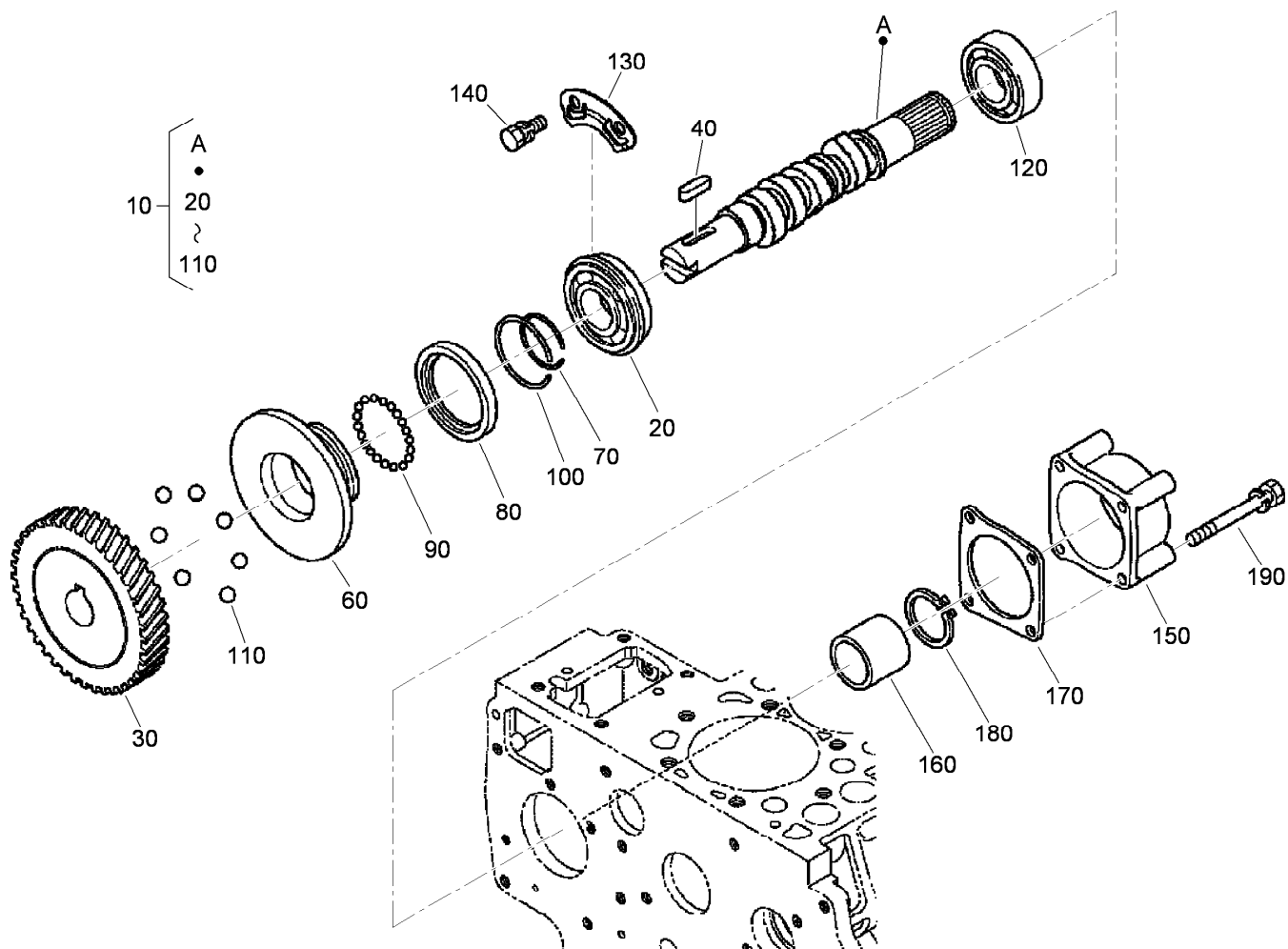
Ref.	Part Number	Qty.	Description
10	115-8540	4	Piston
10	115-8541	4	Piston
20	115-8543	1	Piston Ring ASM
20	115-8542	4	Piston Ring ASM
30	115-8544	4	Pin-Piston
40	112-7002	8	Circlip
50	115-8545	4	Connecting Rod ASM
60	115-8546	4	Bushing-Pin, Piston
70	98-7468	8	Bolt-Rod, Connecting
80	98-7469	4	Metal-Crankpin (STD)
80	115-8548	4	Metal-Crankpin (-0.40Mm)
80	115-8547	4	Metal-Crankpin (-0.20Mm)
90	115-8549	1	*obs* Crankshaft
95	115-8550	1	Pin-Straight
100	110-3729	4	Ball
110	98-7474	1	Sleeve-Crankshaft
120	115-8551	1	Gear-Crank
130	115-8552	1	Key-Feather
140	98-7476	1	Slinger-Oil

Ref.	Part Number	Qty.	Description
150	98-7477	1	Collar-Crankshaft
160	98-7478	1	O-Ring
170	98-7479	1	Nut-Crankshaft
180	108-7075	1	Metal-Crankshaft (STD)
180	108-7076	1	Metal-Crankshaft (-0.20Mm)
180	108-7077	1	Metal-Crankshaft (-0.40Mm)
190	98-7480	1	Seal-Oil
200	108-7078	2	Metal-Side (STD)
200	108-7079	2	Metal-Side (+0.20Mm)
200	108-7080	2	Metal-Side (+0.40Mm)
210	108-7081	2	Metal-Side (STD)
210	108-7082	2	Metal-Side (+0.20Mm)
210	108-7083	2	Metal-Side (+0.40Mm)
220	115-8553	1	Gear-Drive, Oil Pump
230	115-8554	1	Engine Metal Kit
230	115-8555	1	Engine Metal Kit (-0.20Mm/+0.20Mm)
230	115-8556	1	Engine Metal Kit (-0.40Mm/+0.40Mm)



Flywheel Assembly

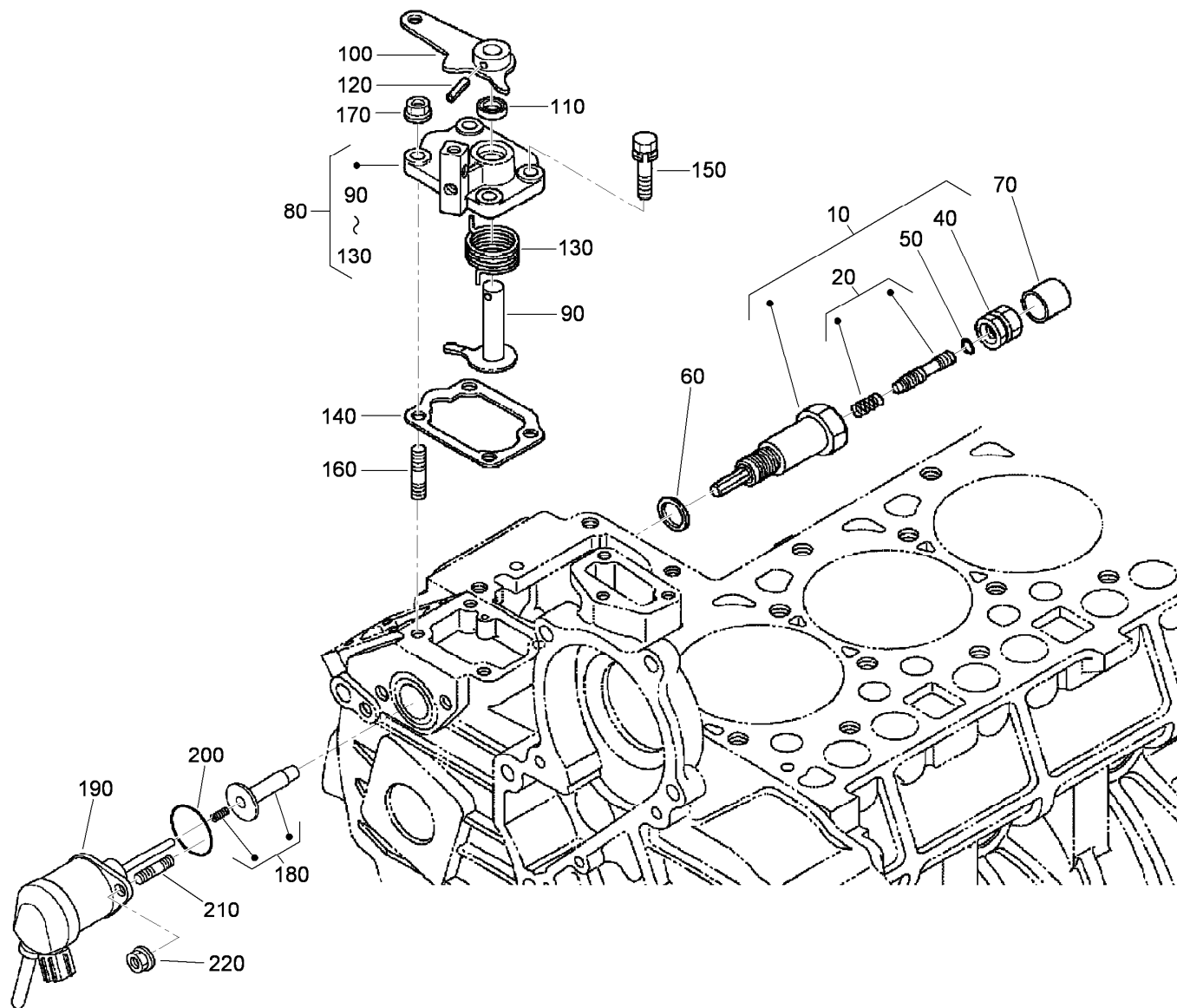
Ref.	Part Number	Qty.	Description
10	115-8557	1	Flywheel ASM
20	115-8558	1	Gear-Ring
30	112-8408	6	Bolt-Flywheel
40	115-8559	1	Housing-Flywheel
50	98-7885	11	Bolt



Fuel Camshaft and Governor Shaft Assembly

Ref.	Part Number	Qty.	Description
10	115-8560	1	Fuel Camshaft ASM
20	115-8561	1	Bearing-Ball
30	98-7574	1	Gear-Pump, Injection
40	98-7575	1	Key-Feather
60	98-7577	1	Sleeve-Governor
70	98-7578	1	Circlip-Sleeve, Governor
80	98-7579	1	Case-Ball, Governor
90	98-7580	39	Ball
100	98-7581	1	Circlip

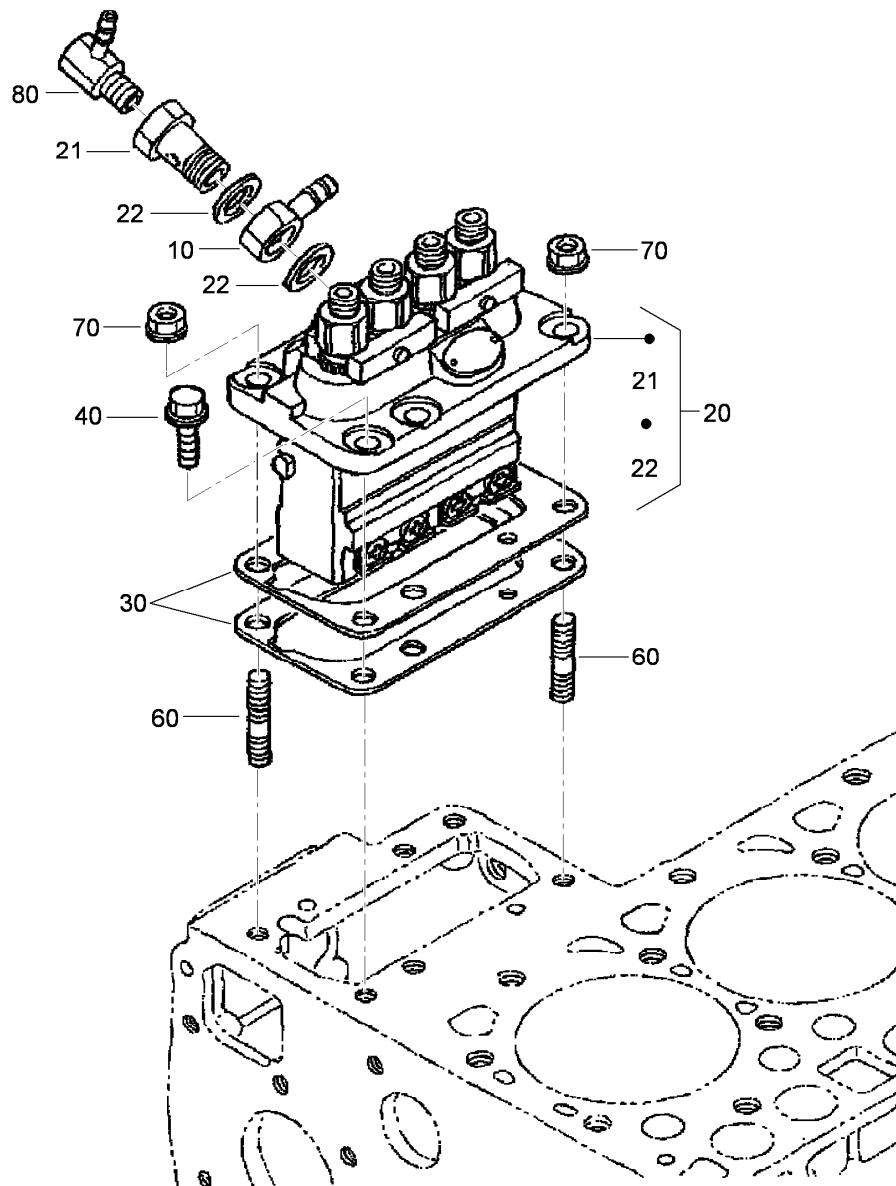
Ref.	Part Number	Qty.	Description
110	98-7582	7	Ball
120	115-8562	1	Bearing-Ball
130	115-8563	1	Stopper-Fuel Camshaft
140	100-9195	2	Bolt
150	115-8564	1	Cover-Camshaft, Fuel
160	115-8565	1	Collar
170	115-8566	1	Gasket
180	98-7589	1	Circlip-External
190	98-7590	4	Bolt



Idle Apparatus and Stop Solenoid Assembly

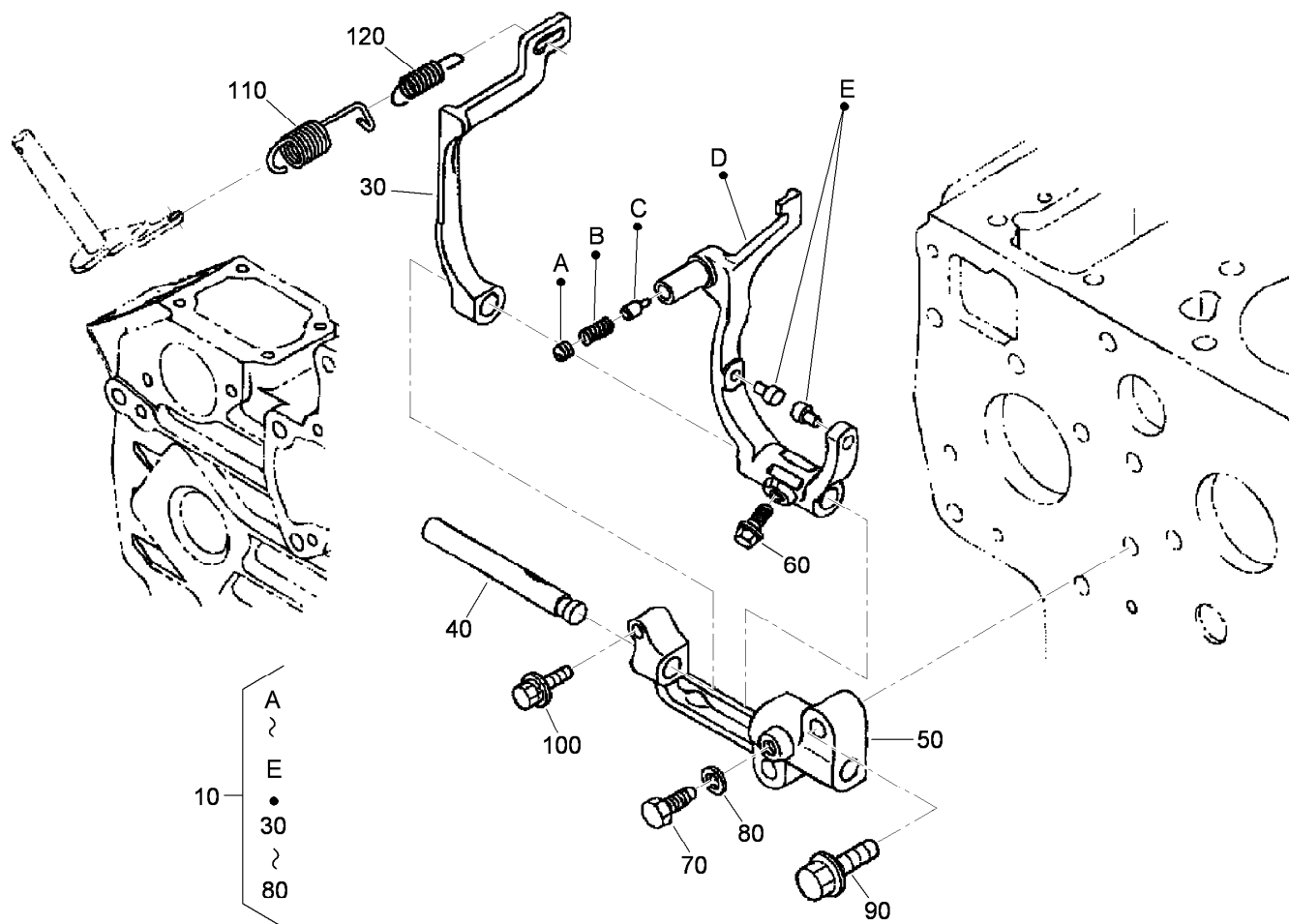
Ref.	Part Number	Qty.	Description
10	115-8567	1	Apparatus-Idling
20	115-8568	1	Adjustment Bolt ASM
40	115-8569	1	Nut-Spring
50	115-8570	1	O-Ring
60	115-8571	1	Gasket
70	115-8572	1	Cap
80	115-8573	1	Engine Stop Lever ASM
90	115-8574	1	Lever-Stop
100	115-8575	1	Lever-Stop, Engine
110	115-8576	1	Seal-Oil
120	98-7602	1	Pin-Spring

Ref.	Part Number	Qty.	Description
130	115-8593	1	Spring-Return
140	115-8578	1	Gasket-Plate
150	98-7568	2	Bolt
160	98-7571	2	Stud
170	100-2203	2	Nut-Flange
180	115-8579	1	Guide-Solenoid
190	115-8580	1	Solenoid ASM
200	110-3762	1	O-Ring
210	98-7571	2	Stud
220	100-2203	2	Nut-Flange



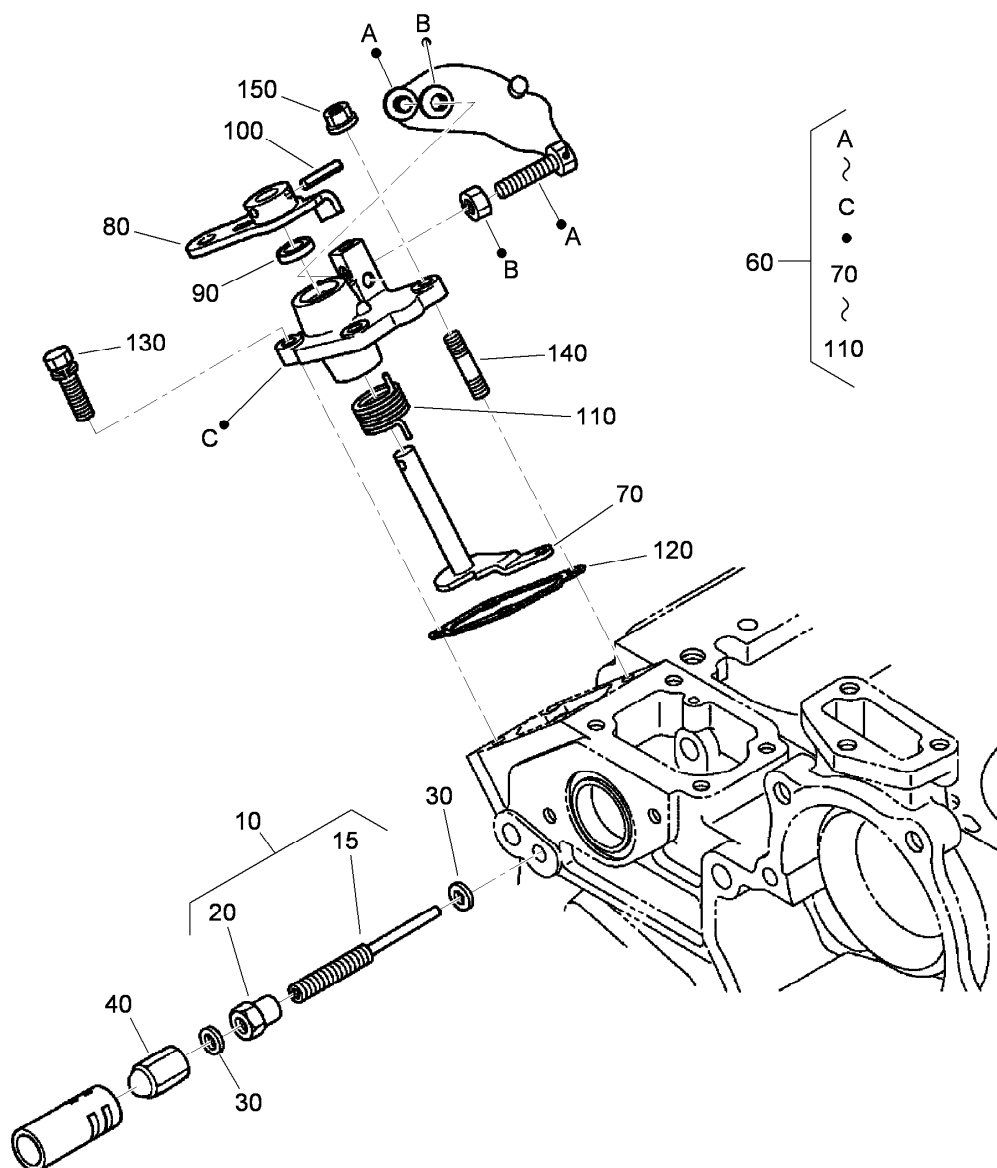
Injection Pump Assembly

Ref.	Part Number	Qty.	Description
10	98-7617	1	Joint
20	115-8581	1	Injection Pump ASM
21	98-7635	1	Screw
22	98-7636	2	Gasket
30	115-8582	1	Shim-Pump, Injection (0.175Mm)
30	98-7607	1	Shim-Pump, Injection (0.200Mm)
30	107-0147	1	Shim-Pump, Injection (0.250Mm)
30	107-0148	1	Shim-Pump, Injection (0.300Mm)
40	115-8583	4	Bolt-Flange
60	100-1558	2	Stud-Manifold, Exhaust
70	112-2492	2	Nut-Flange
80	107-4300	1	Orifice ASM



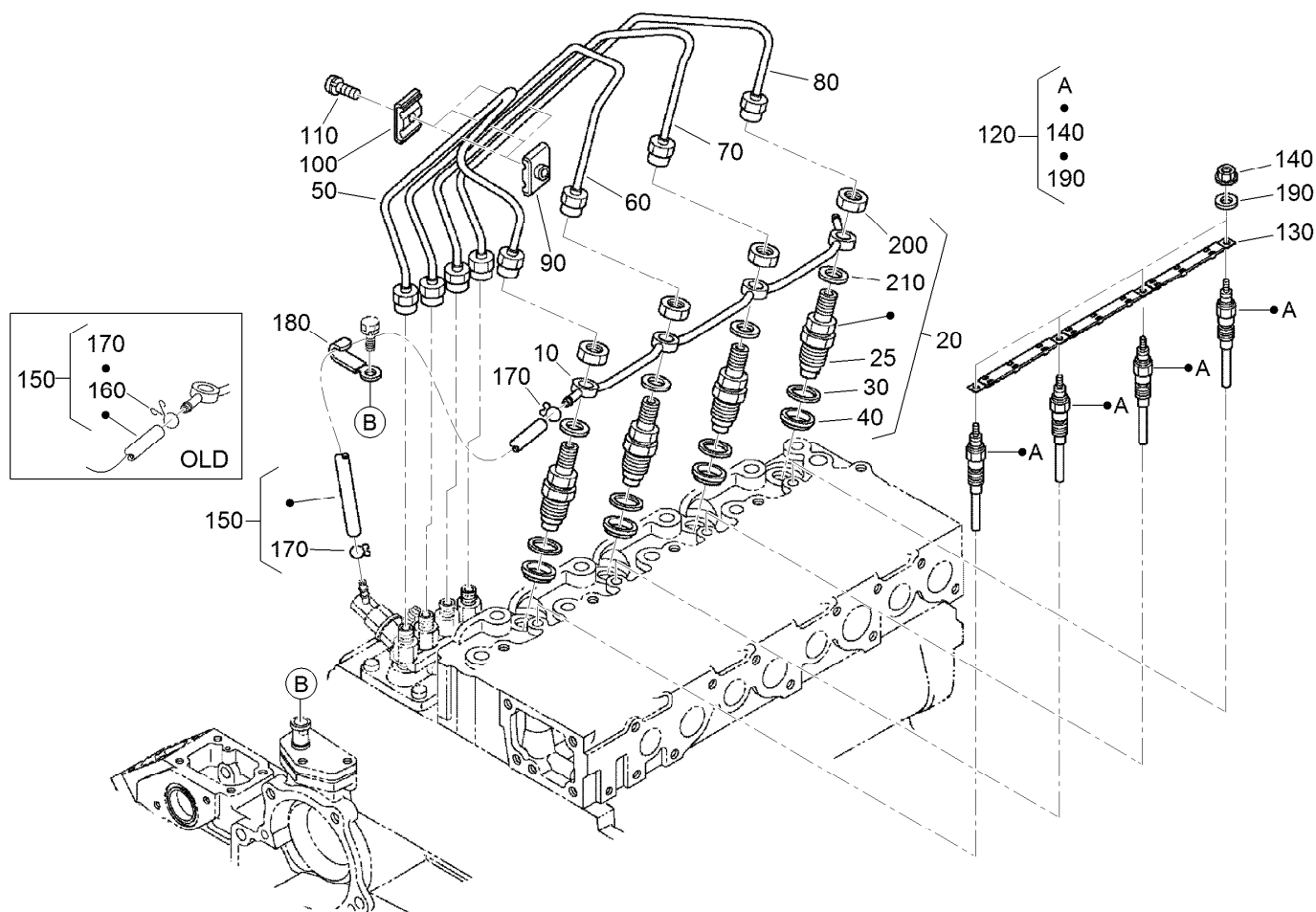
Governor Assembly

Ref.	Part Number	Qty.	Description
10	115-8584	1	Fork Lever ASM
30	115-8585	1	Lever-Fork
40	107-0120	1	Shaft-Lever, Fork
50	98-7643	1	Holder-Lever, Fork
60	107-0116	1	Bolt-Flange
70	98-7644	1	Bolt
80	98-9367	1	Washer-Spring
90	108-7085	2	Bolt-Flange
100	108-7086	1	Bolt
110	115-8586	1	Spring-Governor
120	115-8587	1	Spring-Governor



Speed Control Plate Assembly

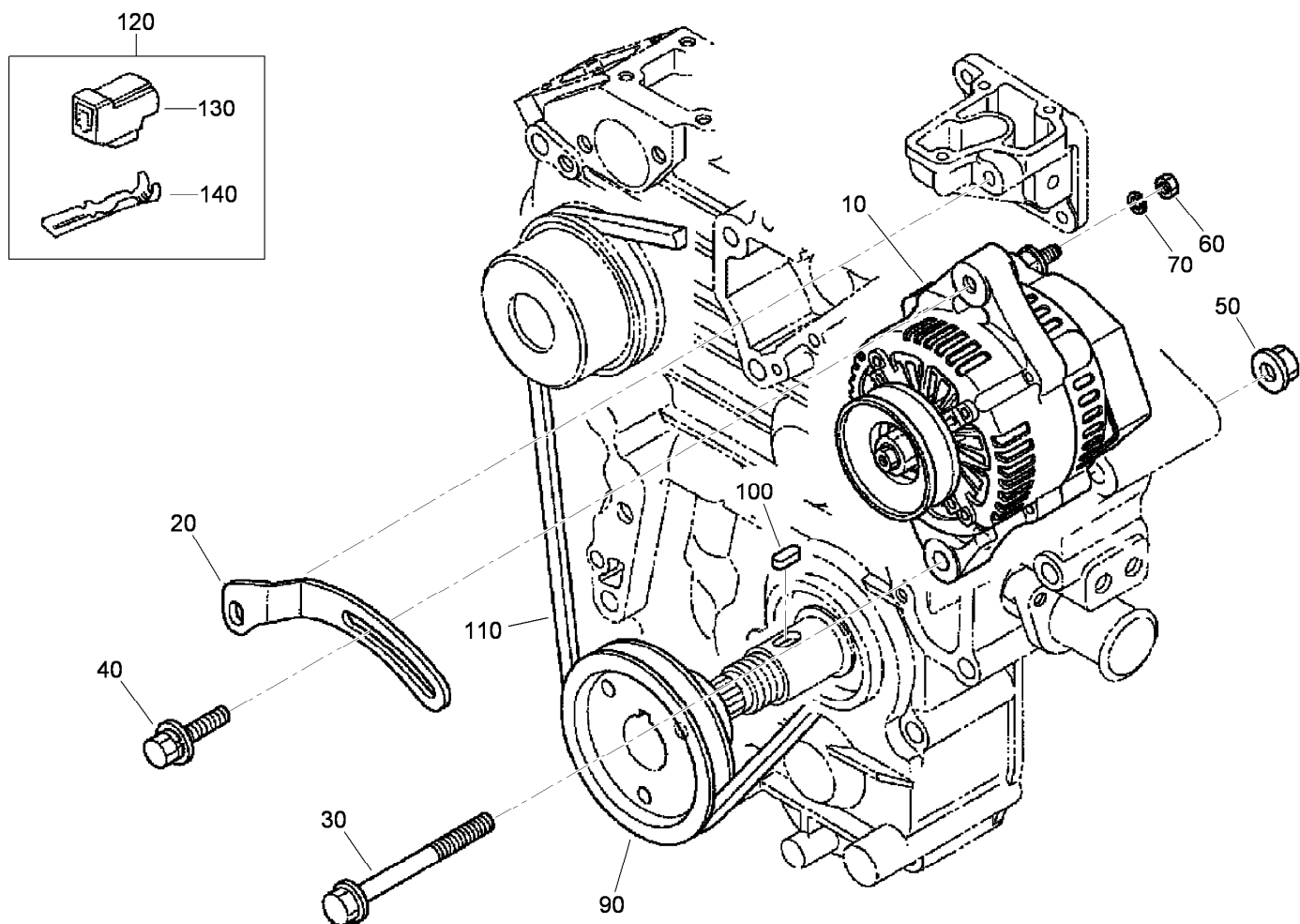
Ref.	Part Number	Qty.	Description
10	107-0132	1	Adjustable Bolt ASM
15	115-8588	1	Bolt-Adjusting
20	98-7653	1	Nut
30	98-7654	2	Gasket
40	98-7655	1	Nut-Cap
60	115-8589	1	Control Plate ASM
70	115-8590	1	Lever-Governor
80	115-8591	1	Lever-Control, Speed
90	115-8576	1	Seal-Oil
100	98-7602	1	Pin-Spring
110	115-8593	1	Spring-Return
120	115-8578	1	Gasket-Plate
130	98-7568	2	Bolt
140	98-7571	2	Stud
150	100-2203	2	Nut-Flange



Nozzle Holder and Glow Plug Assembly

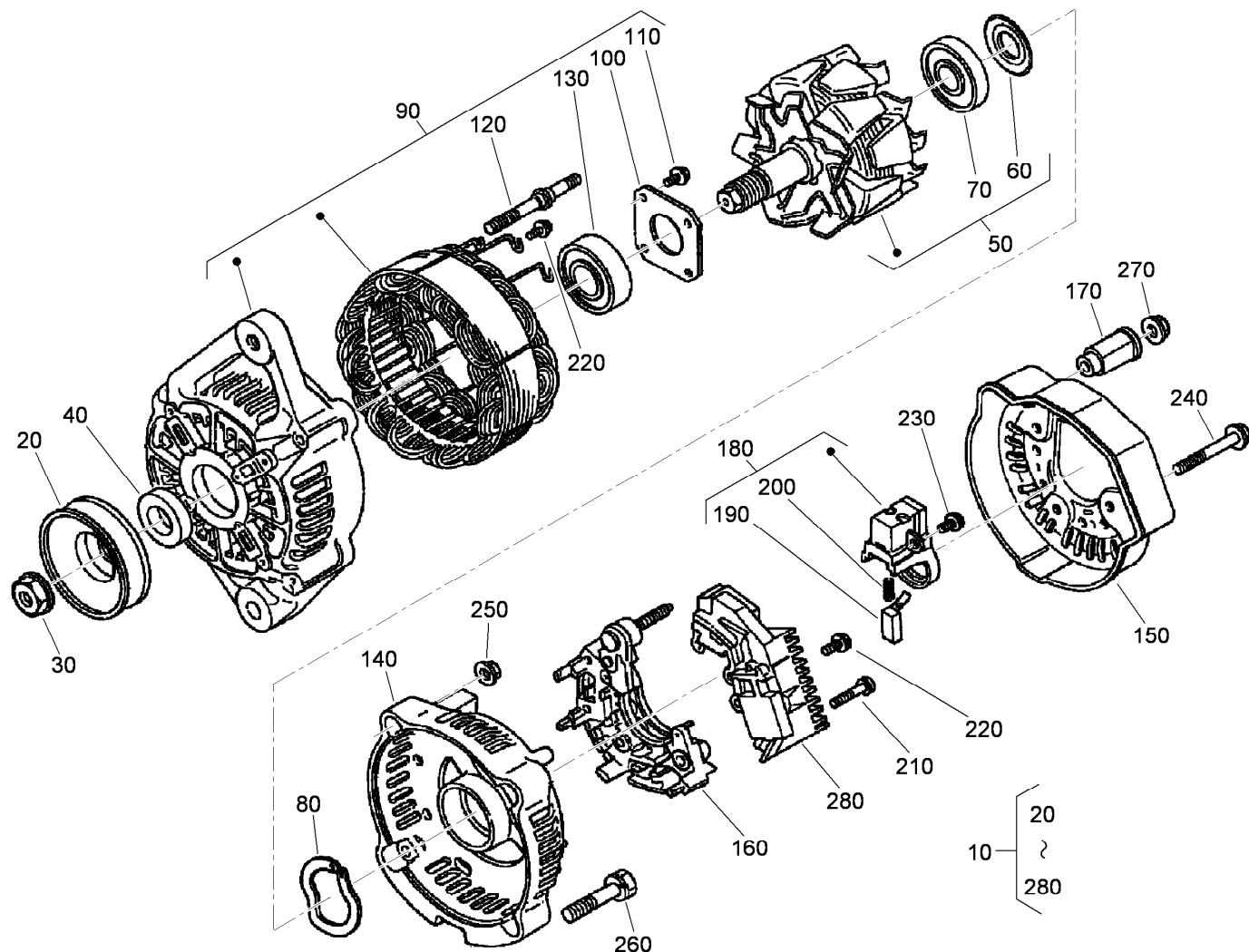
Ref.	Part Number	Qty.	Description
10	100-9213	1	Overflow Pipe ASM
20	100-9214	4	Nozzle Holder Kit
25	100-9215	4	Piece-Nozzle
30	98-7676	4	Gasket
40	98-7677	4	Seal-Heat
50	100-9216	1	Pipe-Injection
60	100-9217	1	Pipe-Injection
70	100-9218	1	Pipe-Injection
80	100-9219	1	Pipe-Injection
90	98-7682	3	Clamp-Pipe
100	98-7683	3	Clamp-Pipe

Ref.	Part Number	Qty.	Description
110	98-9364	3	Screw (With Washer)
120	98-7685	4	Plug-Glow
130	98-7686	1	Cord-Plug, Glow
140	99-8377	4	Nut-Flange
150	98-7670	1	Overflow Pipe ASM
160	98-7671	1	Clip-Pipe
170	115-8595	1	Clip-Pipe
180	98-7673	1	Clamp-Cord
190	99-8378	4	Washer-Plain
200	121-2411	4	Nut
210	98-7668	4	Washer



Alternator and Pulley Assembly

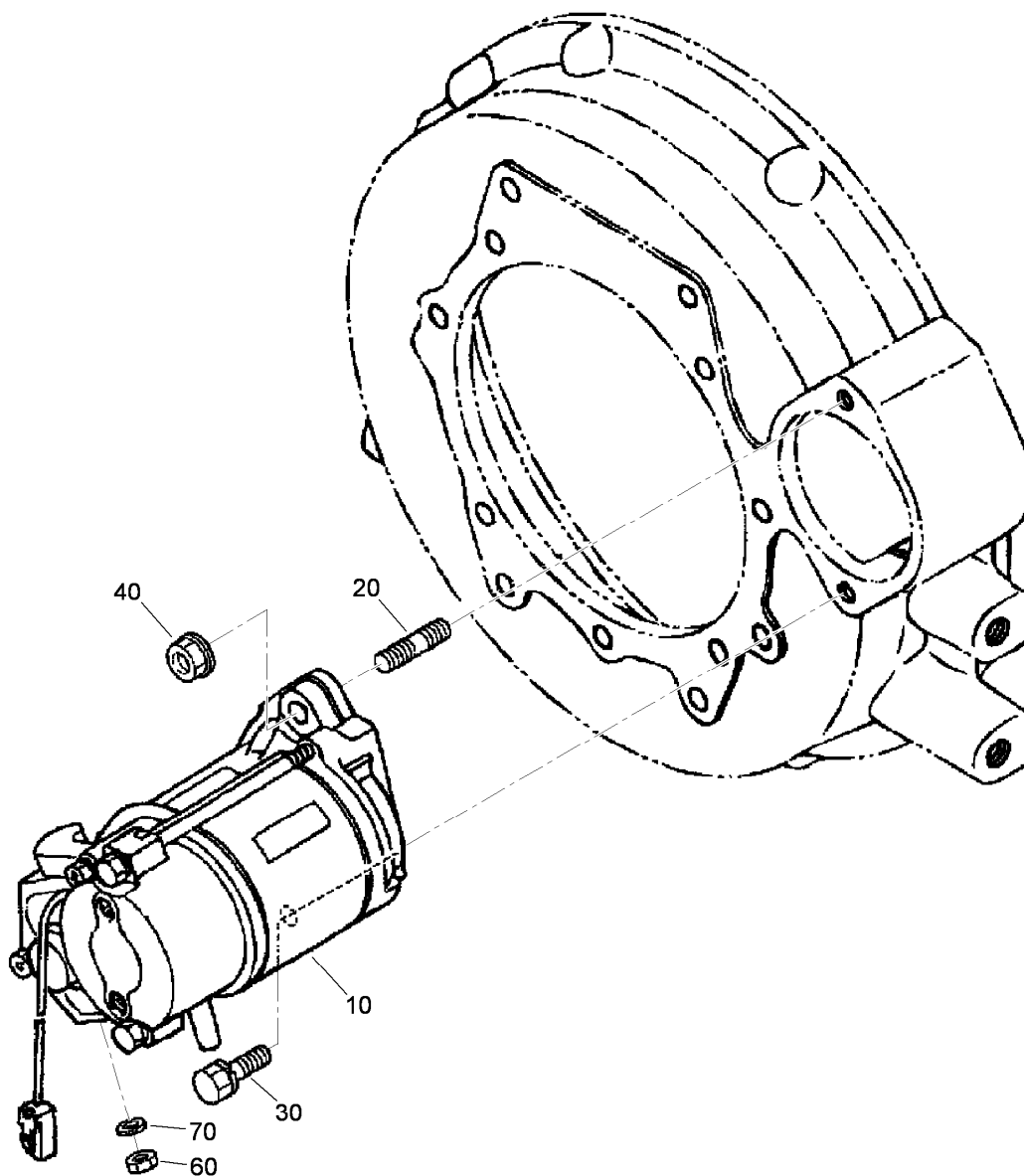
Ref.	Part Number	Qty.	Description
10	98-7693	1	Alternator ASM
20	105-2872	1	Bracket-Alternator
30	115-8596	1	Bolt-Flange
40	108-7088	1	Bolt
50	115-8597	1	Nut-Flange
60	98-7572	1	Nut
70	98-7699	1	Washer-Spring
90	115-8598	1	Pulley-Drive, Fan
100	98-7451	1	Key-Feather
110	115-8599	1	Belt-V
120	115-8600	1	Coupler ASM
130	115-8601	1	Connector
140	115-8602	2	Terminal



Alternator Component Part Assembly

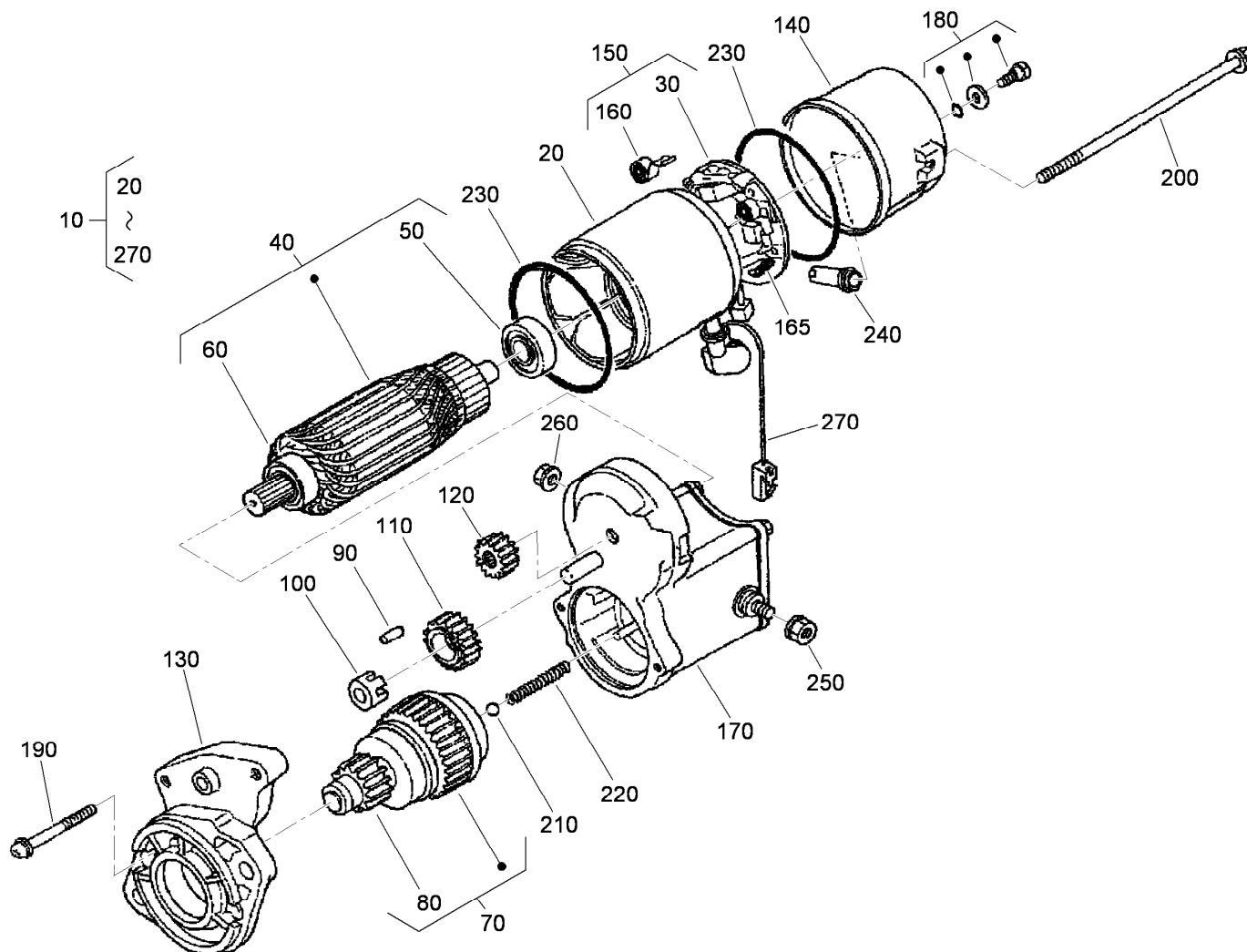
Ref.	Part Number	Qty.	Description
10	98-7693	1	Alternator ASM
20	98-7707	1	Pulley-Alternator
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	98-7716	4	Screw-Head, Round
120	98-7717	2	Bolt-Through
130	107-0137	1	Bearing-Ball
140	98-7719	1	Frame-End

Ref.	Part Number	Qty.	Description
150	107-0140	1	Cover-End
160	98-7721	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Brush Holder ASM
190	98-7724	2	Brush
200	98-7725	2	Spring-Brush
210	98-7726	2	Screw-Head, Round
220	98-7727	6	Screw-Head, Round
230	98-7728	1	Screw-Head, Round
240	98-7729	3	Bolt
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	110-3799	1	Regulator ASM



Starter Assembly

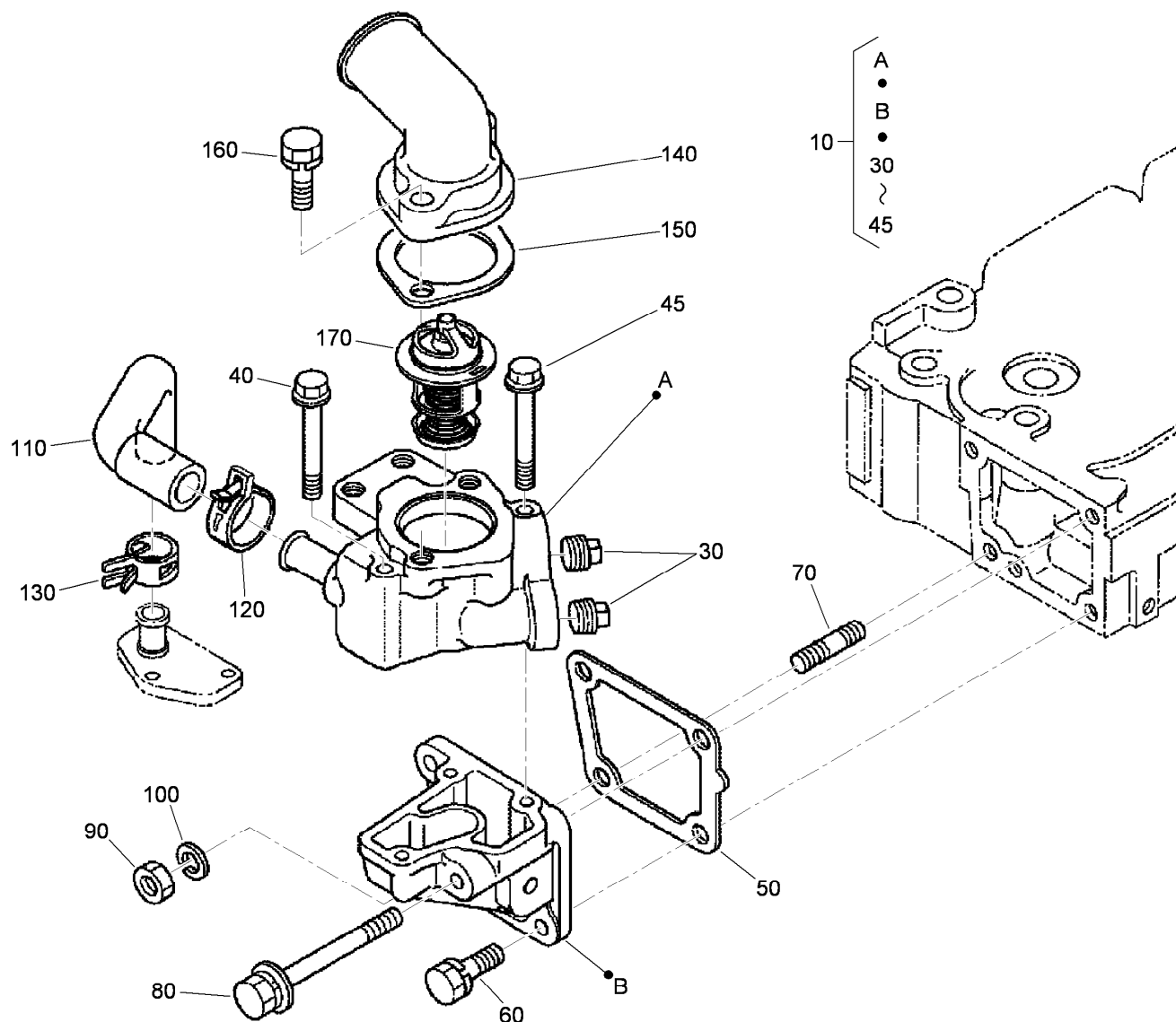
Ref.	Part Number	Qty.	Description
10	115-8603	1	Starter ASM
20	98-7735	1	Stud
30	98-7736	1	Bolt
40	115-8597	1	Nut-Flange
60	98-7739	1	Nut
70	105-2893	1	Washer-Spring



Starter Components Assembly

Ref.	Part Number	Qty.	Description
10	115-8603	1	Starter ASM
20	115-8604	1	Yoke
30	115-8605	1	Brush Kit
40	115-8606	1	Armature
50	115-8607	1	Bearing
60	98-7744	1	Bearing
70	115-8608	1	Clutch-Running, Over
80	112-2833	1	Gear-Pinion
90	98-9707	5	Roller
100	98-7752	1	Retainer
110	98-7751	1	Gear
120	115-8609	1	Gear
130	115-8610	1	Frame-End, Drive
140	115-8611	1	Frame-End

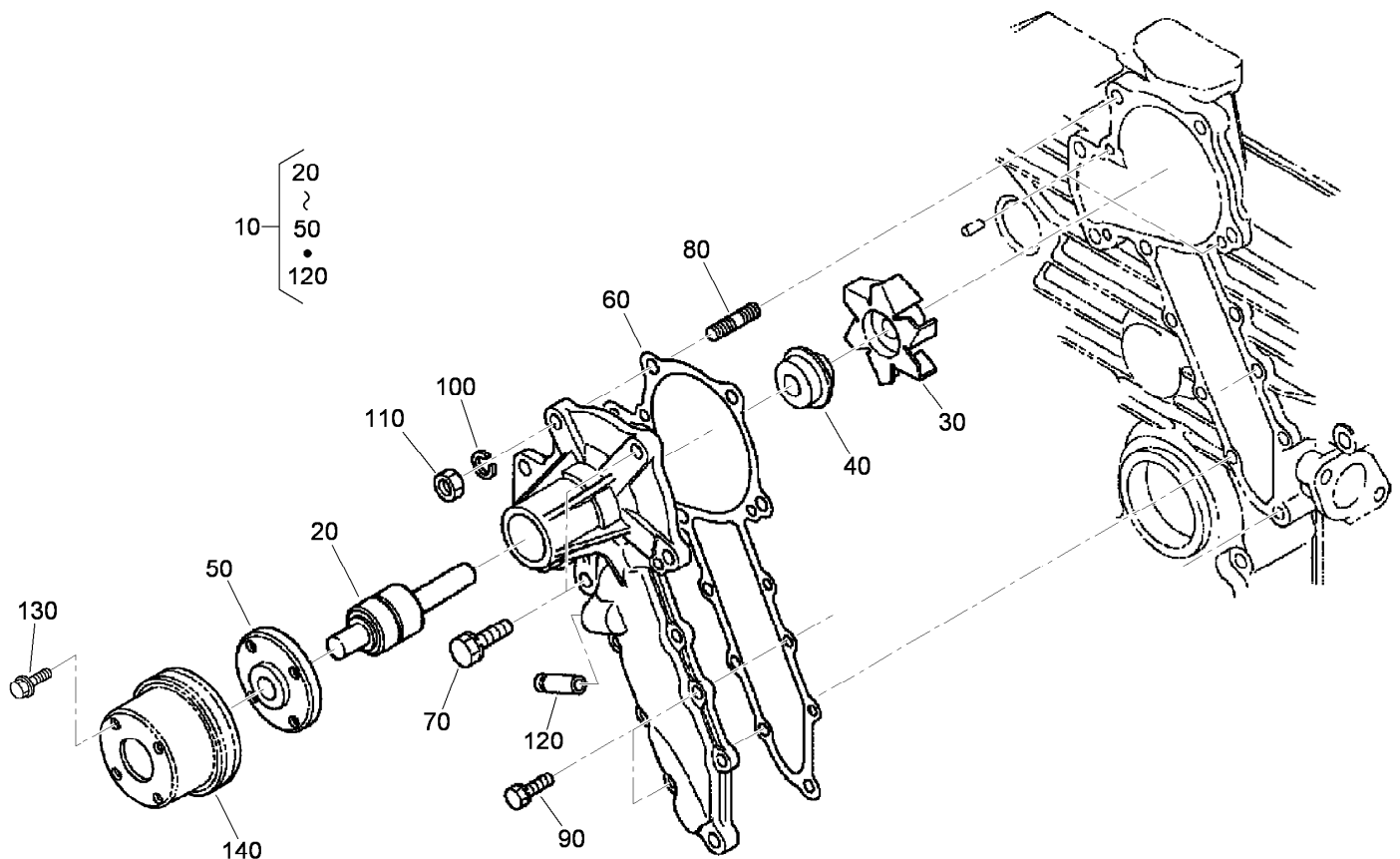
Ref.	Part Number	Qty.	Description
150	115-8612	1	Holder-Brush
160	115-8613	4	Spring
165	115-8614	4	Spring-Brush
170	115-8615	1	Magnetic Switch ASM
180	115-8616	2	Screw
190	115-8617	2	Screw
200	115-8618	2	Bolt-Thru
210	98-7755	1	Ball
220	98-7754	1	Spring
230	98-7757	2	O-Ring
240	115-8619	1	Pipe-Drain
250	98-7760	1	Nut-Hex
260	99-8376	1	Nut-Hex
270	98-9711	1	Cord-Solenoid, Stop



Water Flange and Thermostat Assembly

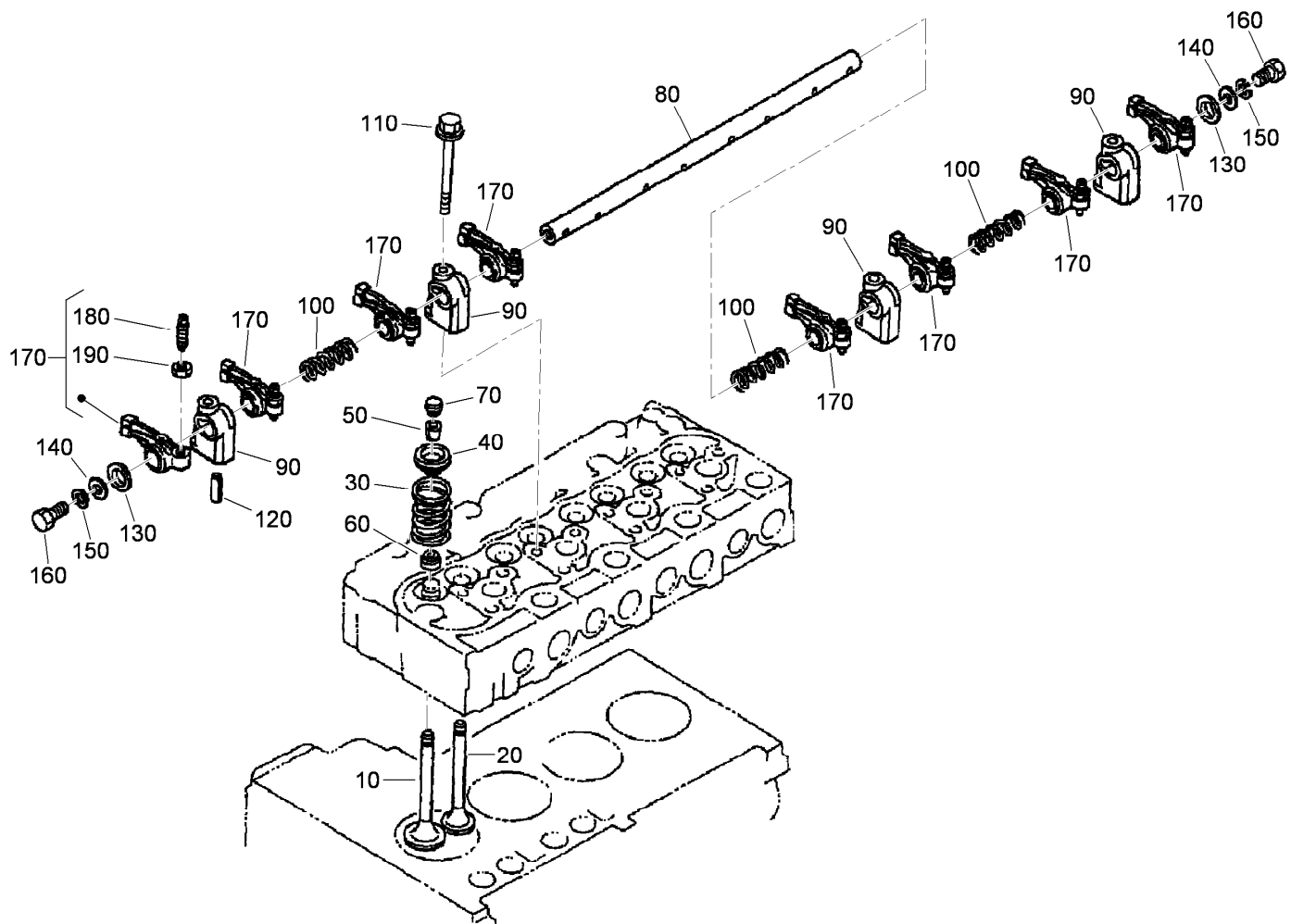
Ref.	Part Number	Qty.	Description
10	105-4578	1	Water Flange ASM
30	105-2874	2	Plug
40	105-2875	2	Bolt-Flange
45	107-0117	1	Bolt-Flange
50	98-7767	1	Gasket-Flange, Water
60	98-9359	2	Bolt
70	100-1558	1	Stud-Manifold, Exhaust
80	107-0115	1	Bolt
90	98-7534	1	Nut

Ref.	Part Number	Qty.	Description
100	105-2893	1	Washer-Spring
110	115-8620	1	Pipe-Return, Water
120	115-8621	1	Clamp-Hose
130	105-2879	1	Clamp-Hose
140	100-9244	1	Cover-Thermostat
150	105-3748	1	Gasket-Thermostat
160	98-7777	2	Bolt
170	105-2881	1	Thermostat ASM



Water Pump Assembly

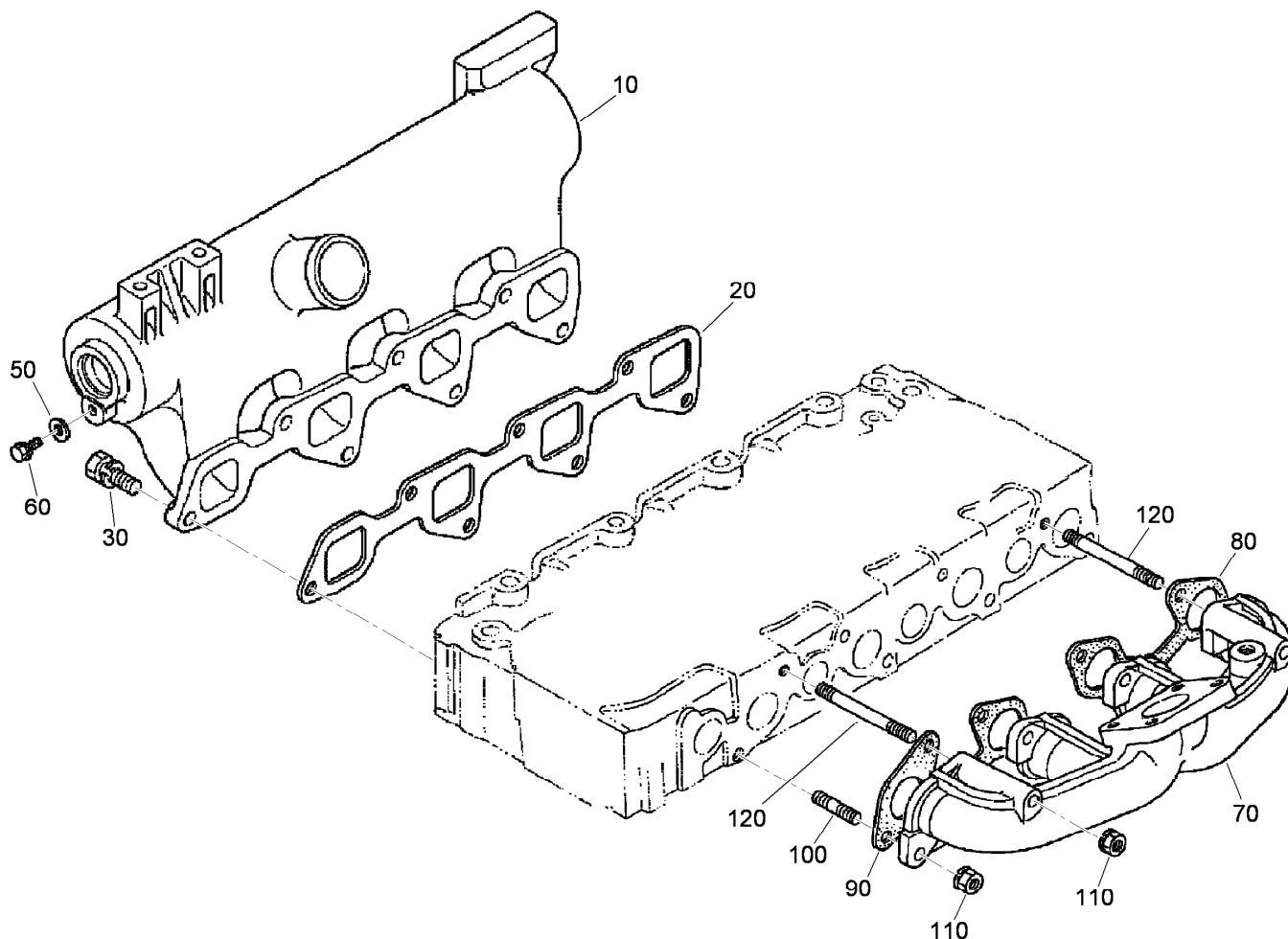
Ref.	Part Number	Qty.	Description
10	115-8622	1	Water Pump ASM
20	98-7780	1	Bearing-Ball
30	107-0130	1	Impeller-Pump, Water
40	105-2882	1	Mechanical Seal ASM
50	108-7089	1	Flange-Shaft, Water Pump
60	115-8624	1	Gasket-Pump, Water
70	98-7439	2	Bolt
80	108-7090	1	Stud
90	98-7605	6	Bolt
100	105-2893	1	Washer-Spring
110	98-7534	1	Nut
120	98-9580	1	Pipe-Return, Water
130	107-4317	4	Bolt-Flange
140	115-8625	1	Pulley-Fan



Valve and Rocker Arm Assembly

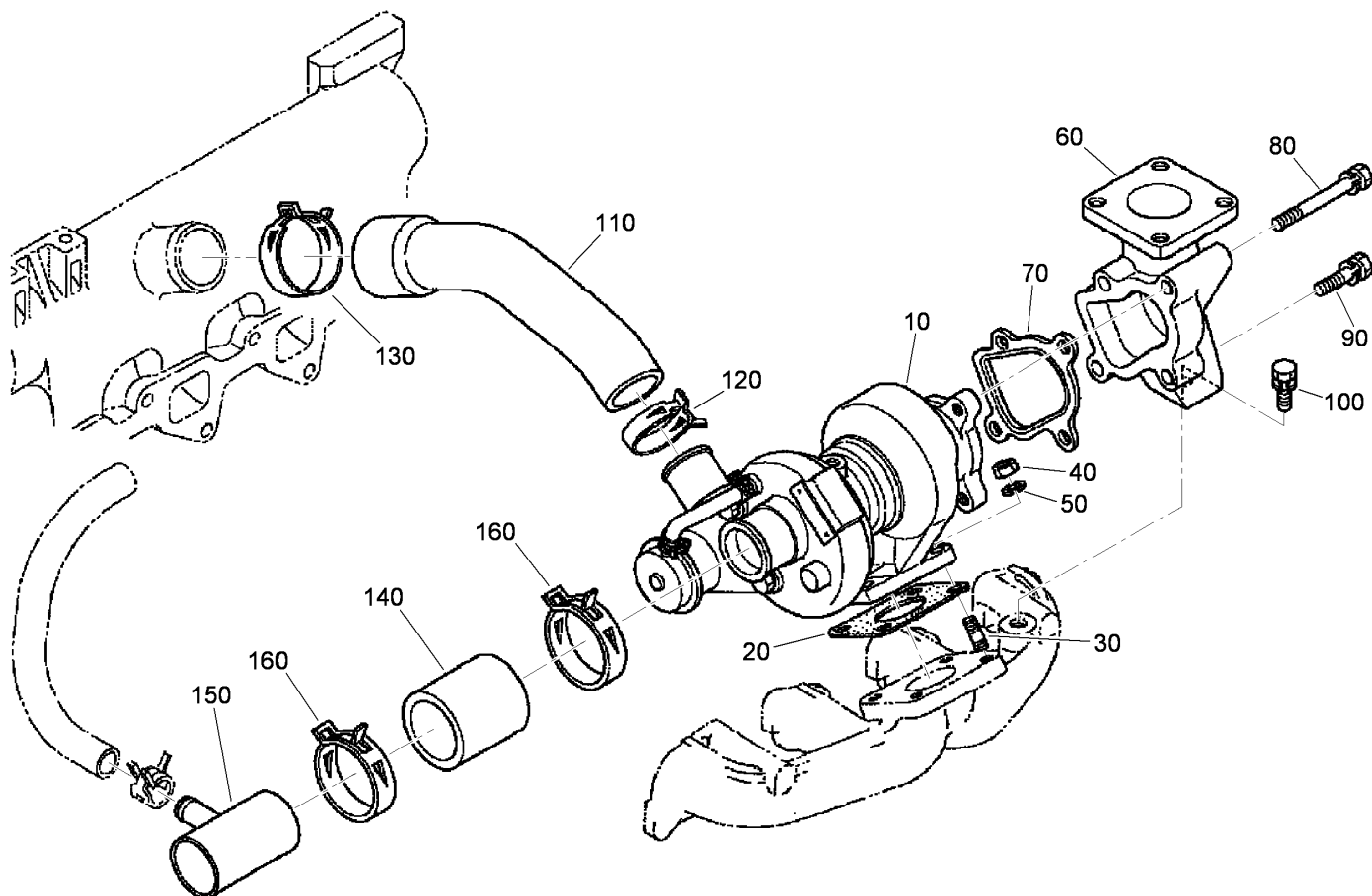
Ref.	Part Number	Qty.	Description
10	115-8626	4	Valve-Inlet
20	114-5099	4	Valve-Exhaust
30	98-7793	8	Spring-Valve
40	98-7794	8	Retainer-Spring, Valve
50	98-7795	8	Collet-Spring, Valve
60	98-7796	8	Seal-Stem, Valve
70	98-7797	8	Cap-Valve
80	107-0134	1	Shaft-Arm, Rocker
90	98-7800	4	Bracket-Arm, Rocker
100	98-7807	3	Spring-Arm, Rocker

Ref.	Part Number	Qty.	Description
110	108-7091	4	Bolt-Flange
120	98-7805	1	Pin-Spring
130	98-7806	2	Washer
140	98-7660	2	Washer-Plain
150	105-2893	2	Washer-Spring
160	98-7884	2	Bolt
170	98-7809	8	Rocker Arm ASM
180	98-7810	8	Screw-Adjusting
190	98-7811	8	Nut



Inlet and Exhaust Manifold Assembly

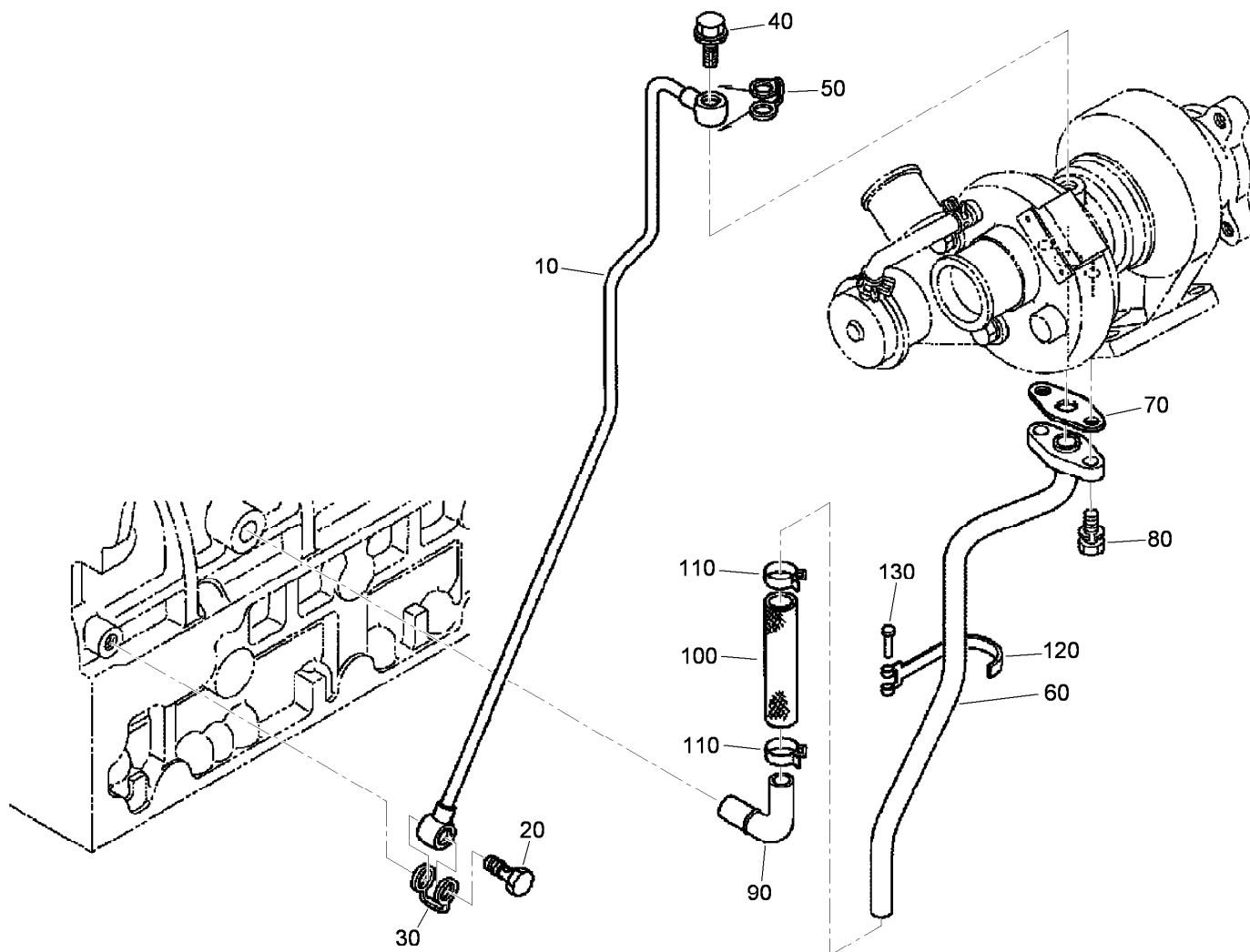
Ref.	Part Number	Qty.	Description
10	115-8627	1	Manifold-Inlet
20	100-9284	1	Gasket-Manifold, Intake
30	98-7610	1	Bolt
50	98-7654	1	Gasket
60	107-4317	1	Bolt-Flange
70	108-7092	1	Manifold-Exhaust
80	98-7802	1	Gasket
90	98-7803	1	Gasket
100	100-1558	6	Stud-Manifold, Exhaust
110	100-9288	8	Nut
120	100-9289	2	Stud



Turbo Charger Assembly

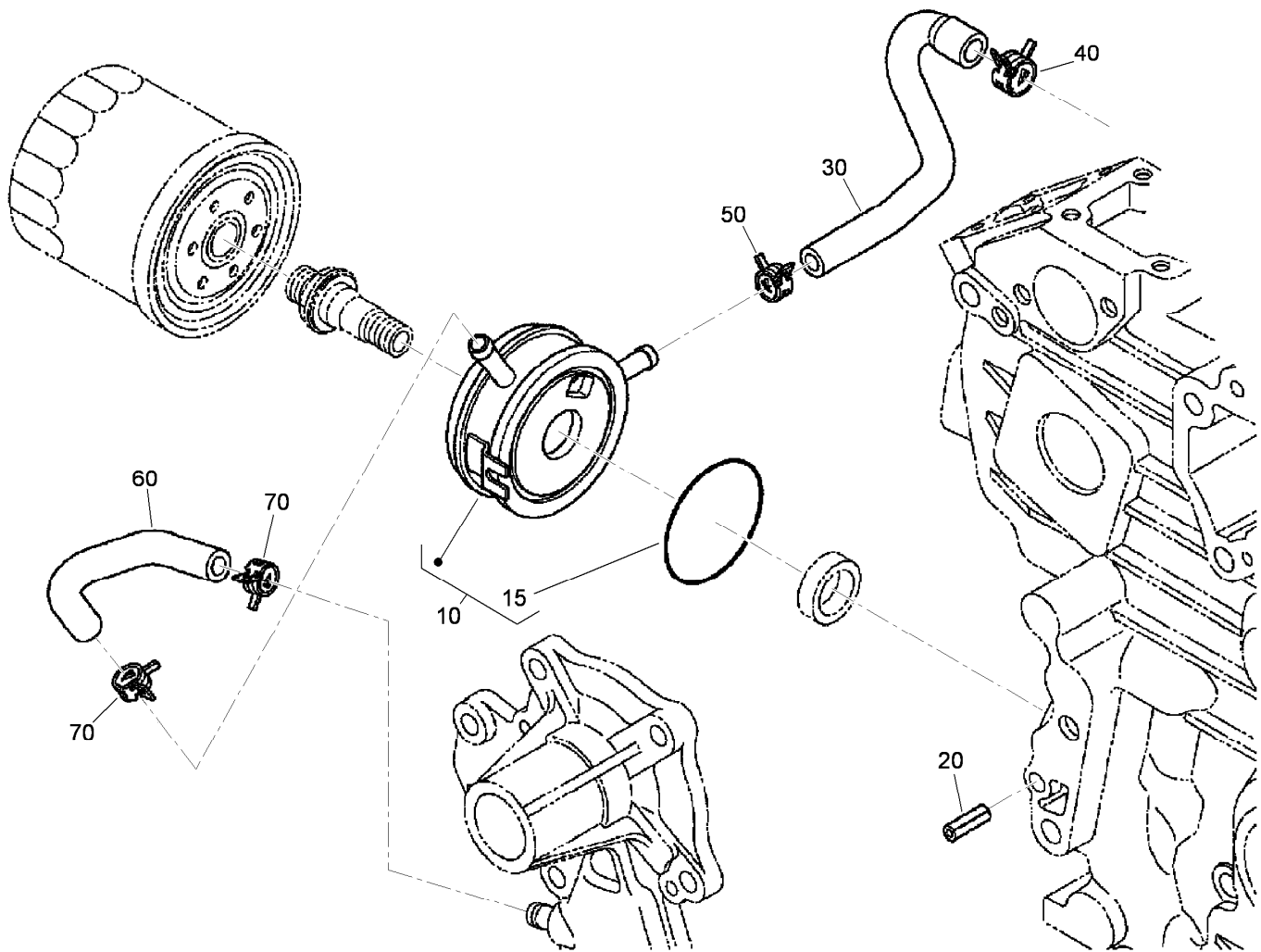
Ref.	Part Number	Qty.	Description
10	115-8628	1	Turbo Charger ASM
20	100-9314	1	Gasket
30	99-8342	4	Stud
40	98-7534	4	Nut
50	105-2893	4	Washer-Spring
60	108-7094	1	Flange-Muffler
70	100-9316	1	Gasket
80	98-7590	2	Bolt

Ref.	Part Number	Qty.	Description
90	98-7777	2	Bolt
100	115-8629	1	Bolt
110	115-8630	1	Hose-Inlet
120	100-9319	1	Band-Pipe
130	99-8322	1	Band-Pipe
140	115-8631	1	Tube-Inlet, Turbo
150	115-8632	1	Pipe-Breather, Inlet
160	99-8322	2	Band-Pipe



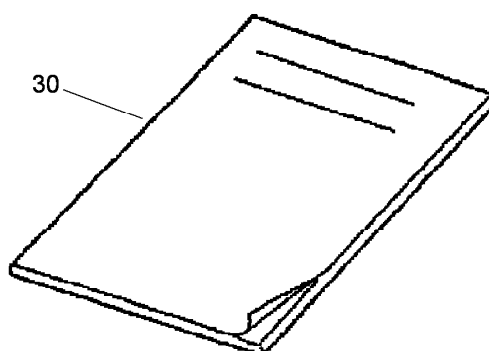
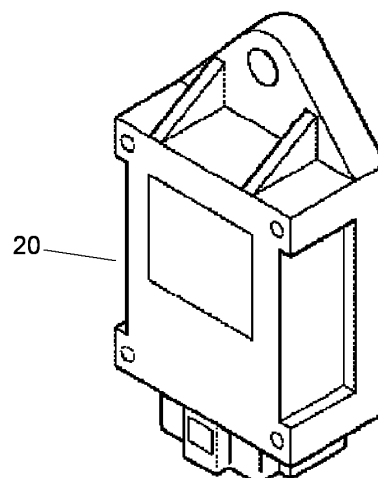
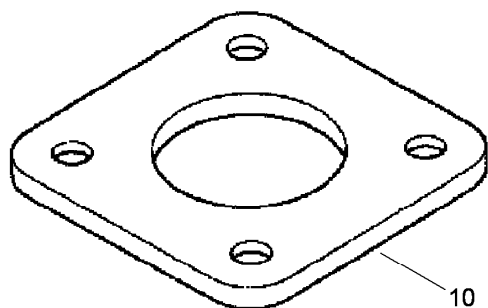
Oil Pipe (Turbo Charger) Assembly

Ref.	Part Number	Qty.	Description
10	115-8633	1	Pipe-Oil
20	100-9321	1	Bolt-Joint, Eye
30	115-8634	1	Gasket
40	115-4126	1	Bolt-Joint, Eye
50	115-8635	1	Gasket
60	115-8636	1	Pipe-Oil
70	108-4422	1	Gasket
80	98-7605	2	Bolt
90	100-9323	1	Pipe-Oil
100	108-7095	1	Tube-Oil
110	98-9714	2	Clamp-Hose
120	108-7096	1	Clamp-Pipe
130	98-9591	1	Pin-Band



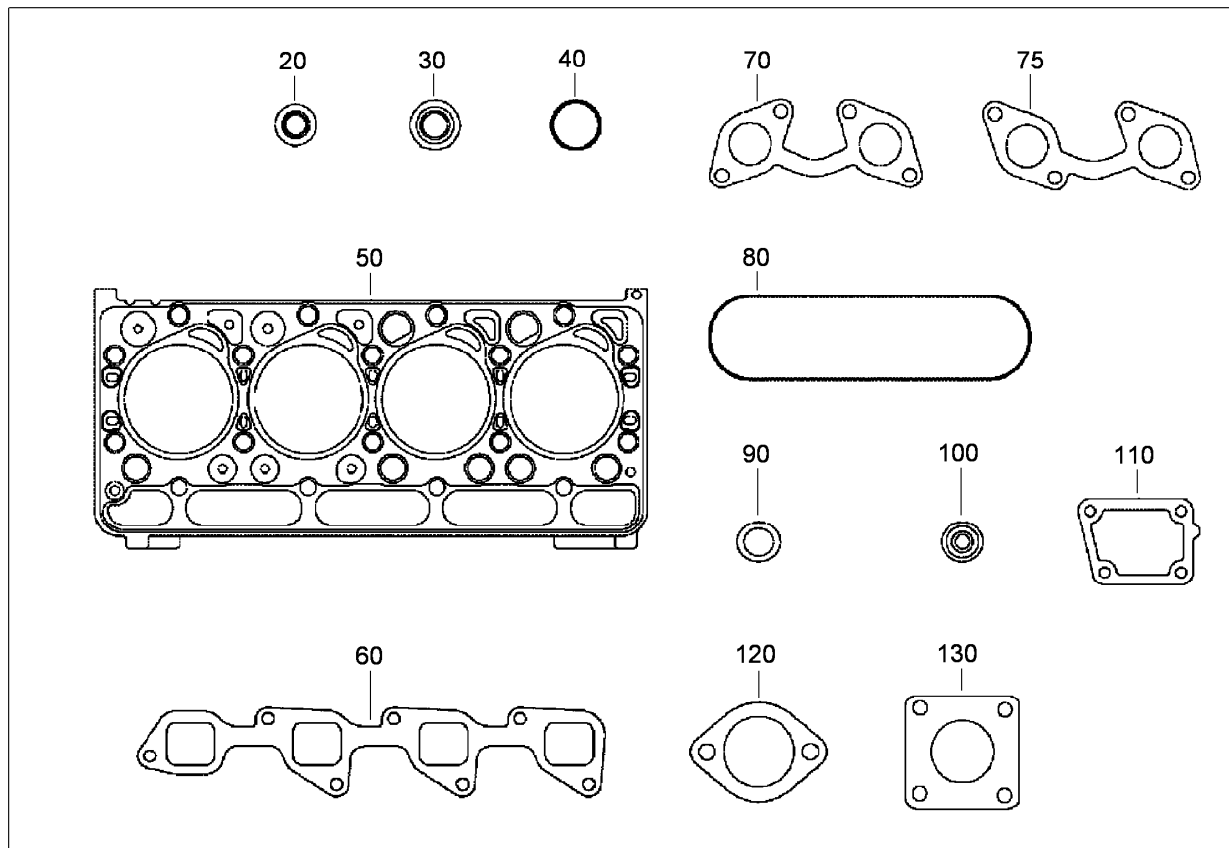
Oil Cooler Assembly

Ref.	Part Number	Qty.	Description
10	115-8637	1	Oil Cooler ASM
15	115-8638	1	O-Ring
20	115-8639	1	Pin-Spring
30	115-8640	1	Hose-Cooler, Oil
40	105-2879	1	Clamp-Hose
50	98-9579	1	Band-Pipe
60	115-8641	1	Hose-Cooler, Oil
70	98-9579	2	Band-Pipe



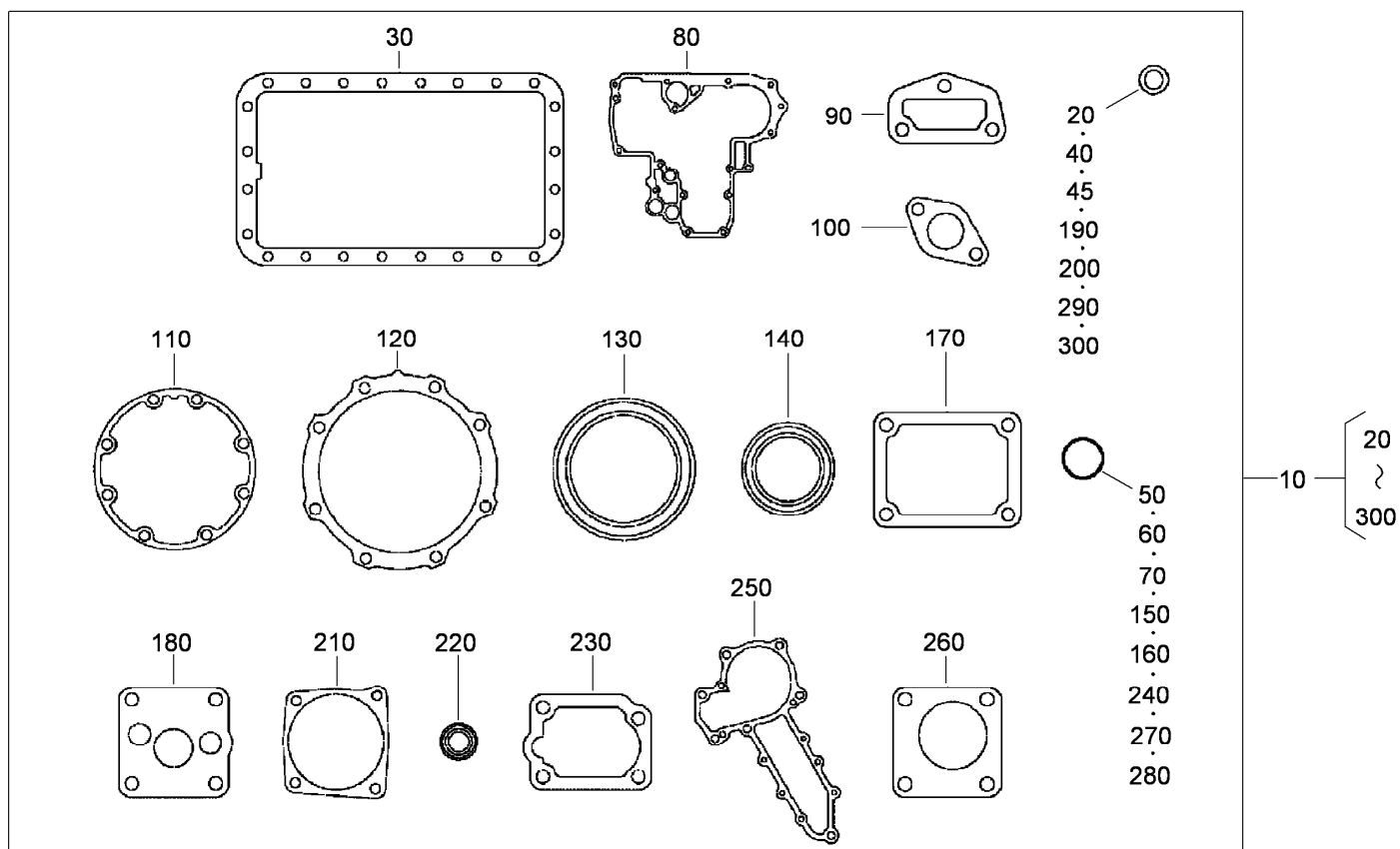
Muffler Gasket, Glow Controller and Operator Manual

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
10	100-9333	1	Gasket-Muffler
20	98-7611	1	Controller-Glow
30	115-8642	1	Manual-Operator



Upper Gasket Kit

Ref.	Part Number	Qty.	Description
10	115-8643	1	Upper Gasket Kit
20	98-7763	1	Washer-W/Rubber
30	98-7796	8	Seal-Stem, Valve
40	108-7064	1	O-Ring
50	115-8509	1	Gasket-Head, Cylinder (1.20Mm)
60	100-9284	1	Gasket-Manifold, Intake
70	98-7803	1	Gasket
75	98-7802	1	Gasket
80	108-7062	1	Gasket-Cover, Head
90	98-7676	4	Gasket
100	98-7677	4	Seal-Heat
110	98-7767	1	Gasket-Flange, Water
120	105-3748	1	Gasket-Thermostat
130	100-9333	1	Gasket-Muffler



Lower Gasket Kit

Ref.	Part Number	Qty.	Description
10	115-8644	1	Lower Gasket Kit
20	98-7524	1	Gasket
30	108-7053	1	Gasket-Pan, Oil
40	98-7528	1	O Ring-Copper
45	98-9399	2	Gasket
50	107-0104	1	O-Ring
60	115-8514	2	O-Ring
70	107-0106	1	O-Ring
80	115-8516	1	Gasket-Case, Gear
90	115-8521	1	Gasket-Flange, Return
100	115-8645	1	Gasket-Pump, Fuel
110	98-7435	1	Gasket-Case, Bearing
120	98-7437	1	Gasket-Case Cover, Bearing
130	108-7072	1	Seal-Oil
140	98-7480	1	Seal-Oil

Ref.	Part Number	Qty.	Description
150	98-7478	1	O-Ring
160	108-7054	1	O-Ring
170	98-7604	1	Gasket-Cover, Pump
180	115-8648	1	Gasket-Pump, Oil
190	98-7654	2	Gasket
200	98-7636	2	Gasket
210	115-8566	1	Gasket
220	115-8576	2	Seal-Oil
230	115-8578	2	Gasket-Plate
240	110-3762	1	O-Ring
250	115-8624	1	Gasket-Pump, Water
260	115-8522	1	Gasket-Meter, Hour
270	115-8649	1	O-Ring
280	115-8570	1	O-Ring
290	115-8571	1	Gasket
300	98-7428	1	Gasket

Attachments and Accessories

For 30857N Groundsmaster 4500-D Traction Unit

Product Name	Model/Part
Blade-High Lift	104-5183
Blade-Angle Sail	105-9810-03
Blade-Atomic	107-0235-03
27in Blade Service Pack	108-1463
Blade-Combo.....	108-9026-03
Operator Fan Kit - US Sales Only, 3in ROPS Post	110-8804
MVP Filter Kit.....	30056
Hardtop Sunshade.....	30359
27in Rotary Cutting Unit.....	30834
Leaf Mulching Kit	30836
Cab Kit.....	30860
Air Conditioner Mounting Kit	30862
Flow Divider Kit.....	30871
Diagnostic Display Box	85-4750

Notes:

Notes:



Count on it.