Form No. 3362-473 Rev B

TORO®

Count on it.

Parts Catalog

Groundsmaster® 4500-D

Traction Unit

Model No. 30857—Serial No. 290000001 and Up

CE

Register at www.Toro.com.

Original Instructions (EN)

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.

List of Abbreviations

AR: as required

ASM: assembly

BBC: blade brake control

BHTF: button head thread forming

CARR: carriage

CCW: counter clockwise

CW: clockwise

DEG: degrees

DPA: Dual Point Adjustment

ECM: electronic control module

EXT: external

FH: flat head

GA: gauge

HD: heavy-duty

HF: hex flange

HH: hex head

HHF: hex head flange

HHFTF: hex head flange thread forming

HJ: hex jam

HLH: hex lag head

HOC: height-of-cut

HSBH: hex socket button head

HSFH: hex socket flat head

HSH: hex socket head

HWH: hex washer head

HWHTF: hex washer head thread forming

HYD: hydraulic

LH: left hand

LP: Liquid Propane

NI: nylon insert

NPTF: national pipe thread fine

PFH: phillips flat head

PPH: phillips pan head

PPHTF: phillips pan head thread forming

PRH: phillips round head

PTH: phillips truss head

PTO: power-take-off

RH: right hand

ROPS: roll-over protection system

RRB: rear roller brush

SFH: slotted fillister head

SHH: slotted hex head

SHWH: slotted hex washer head

SPH: slotted pan head

SQH: square head

SRH: slotted round head

STD: standard

TAP: self tapping

TTH: torx truss head

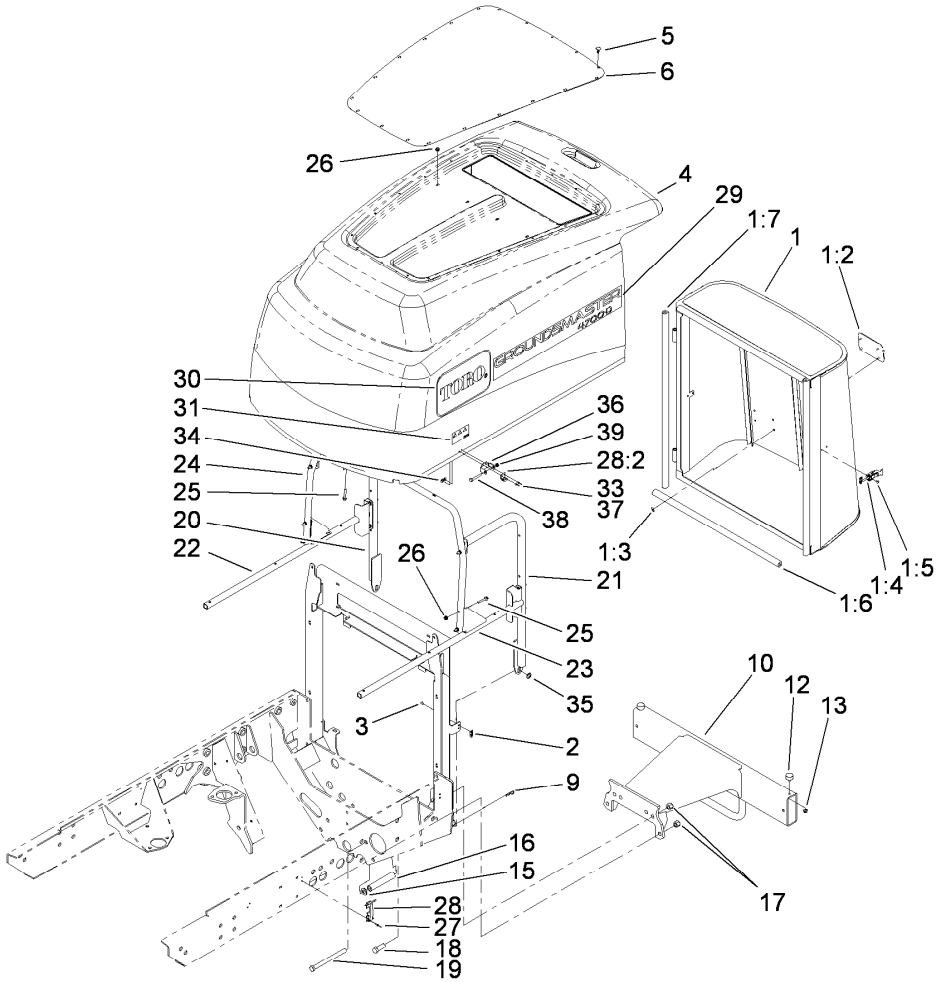
© 2011—The Toro® Company
8111 Lyndale Avenue South
Bloomington, MN 55420

Contact us at www.Toro.com.
Printed in the USA.
All Rights Reserved

Contents

Hood, Screen and Bumper Assembly 5
Steering Tower and Brake Pedal Assembly 6
Steering Tilt Column Assembly No. 106-3622 7
Steering Valve Assembly No. 114-8119 8
Traction Pedal Assembly 9
Seat and Seat Frame Assembly 10
Air Ride Seat Suspension Assembly Model No. 30621 11
Premium Seat Assembly Model No. 30622 13
Control Console Assembly 14
Hydraulic Filter and Reservoir Assembly 15
Fuel Tank and Filter Assembly 16
Front Drive and Brake Assembly 17
Planetary Assembly No. 105-4500-03 18
Brake Assembly No. 100-3070-03 19
Piston Motor Assembly No. 105-1218 20
Brake Assembly No. 100-3069-03 21
Fan Plumbing Assembly 22
Hydraulic Pump Assembly 23
Piston Pump Assembly No. 114-4188 24
Control Assembly No. 115-4446 25
Four Section Pump Assembly No. 114-4189 26
Radiator Assembly 27
Fan and Motor Assembly 28
Hydraulic Motor Assembly No. 117-4769 29
Engine Installation Assembly 30
Rear Axle Assembly 31
Bevel Pinion Shaft Assembly Rear Axle Assembly No. 110-4750 32
Differential Assembly Rear Axle Assembly No. 110-4750 33
Axle Support Assembly Rear Axle Assembly No. 110-4750 34
Bevel Gear Case Assembly Rear Axle Assembly No. 110-4750 35
Bevel Gear Shaft Assembly Rear Axle Assembly No. 110-4750 36
Axle Case Assembly Rear Axle Assembly No. 110-4750 37
Axle Assembly Rear Axle Assembly No. 110-4750 38
Hydraulic Cylinder Assembly No. 105-9861 39
Piston Motor Assembly No. 105-1219 40
Flywheel Coupler Assembly 41
Power Center, Battery and Storage Box Assembly 42
Battery Storage Box Assembly No. 115-9100 43
Storage Box Assembly No. 115-9101 44
Front Lift Arm Assembly 45
Hydraulic Cylinder Assembly No. 107-1979 46
Hydraulic Cylinder Assembly No. 107-1980 47
Air Cleaner and Manifold Assembly 48
Fan Drive Manifold Assembly No. 117-2395 49
Air Cleaner Assembly No. 99-5410 50
No. 2 and 3 Lift Arm Assembly 51
Hydraulic Cylinder Assembly No. 107-1978 52
No. 2 and 3 Hose Installation Assembly 53
No. 1, 4 and 5 Hose Installation Assembly 54
Hydraulic Motor Assembly No. 105-9872 55
Roll-Over Protection System and Front Frame Assembly 56
Front Frame Assembly No. 115-4392 57
Front Shroud and Work Light Assembly 58
Manifold and Filter Assembly 59

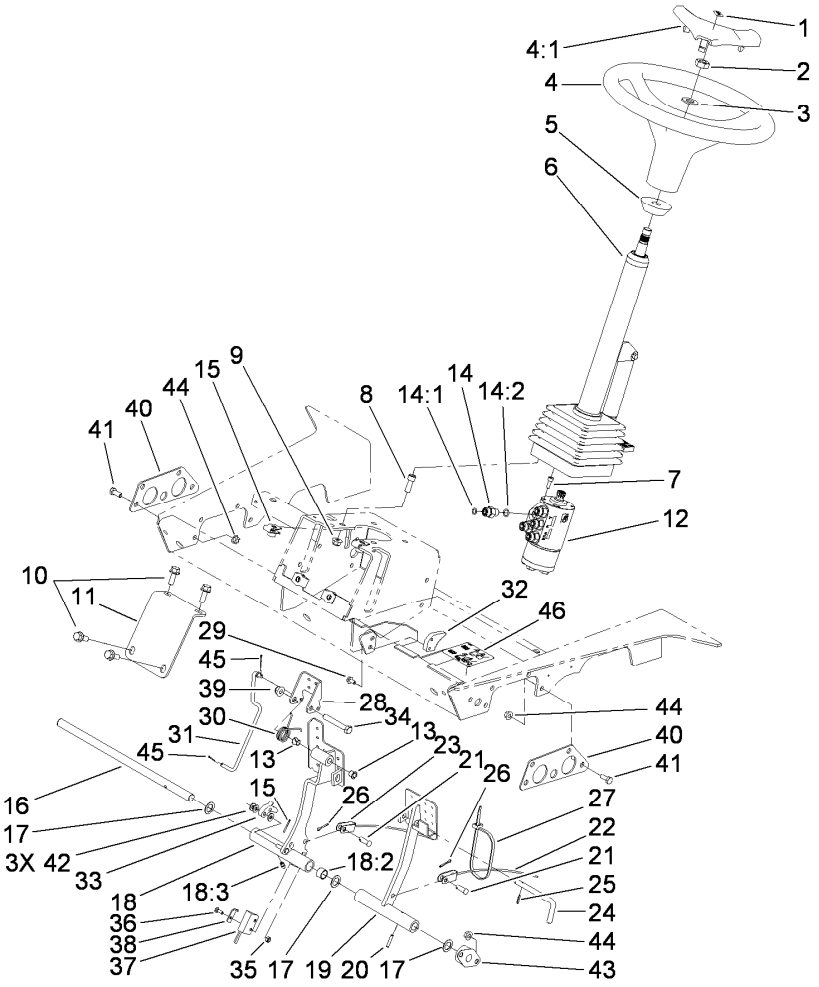
Mow Manifold Assembly No. 117-2392 60
Lift Manifold Assembly No. 117-2388 61
4-Wheel Drive Manifold and Filter Assembly 62
Filter Manifold Assembly No. 117-2391 63
Filter Manifold Assembly 64
4-Wheel Drive Manifold Assembly No. 117-2390 65
4-Wheel Drive Manifold Assembly 66
Junction Manifold Assembly No. 117-2394 67
Junction Manifold Assembly 68
Traction Hydraulic Lines Assembly 69
Hydraulic Steering Assembly 70
Mow Hydraulic Assembly 71
Lift Hydraulic Assembly 72
Crankcase Assembly 73
Oil Pan Assembly 74
Cylinder Head Assembly 75
Gear Case Assembly 76
Cylinder Head Cover Assembly 77
Oil Filter Assembly 78
Dipstick and Guide Assembly 79
Oil Pump Assembly 80
Main Bearing Case Assembly 81
Cam Shaft and Idle Gear Assembly 82
Piston and Crankshaft Assembly 83
Flywheel Assembly 84
Fuel Camshaft and Governor Shaft Assembly 85
Idle Apparatus and Stop Solenoid Assembly 86
Injection Pump Assembly 87
Governor Assembly 88
Speed Control Plate Assembly 89
Nozzle Holder and Glow Plug Assembly 90
Alternator and Pulley Assembly 91
Alternator Component Part Assembly 92
Starter Assembly 93
Starter Components Assembly 94
Water Flange and Thermostat Assembly 95
Water Pump Assembly 96
Valve and Rocker Arm Assembly 97
Inlet and Exhaust Manifold Assembly 98
Turbo Charger Assembly 99
Oil Pipe (Turbo Charger) Assembly 100
Oil Cooler Assembly 101
Muffler Gasket, Glow Controller and Operator Manual 102
Upper Gasket Kit 103
Lower Gasket Kit 104
Attachments and Accessories 105



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-Tinnerman
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
16	76-8350	2	Stop-Axle
17	3296-23	4	Nut-Lock, NI
18	325-6	2	Screw-HH
19	325-33	2	Screw-HH

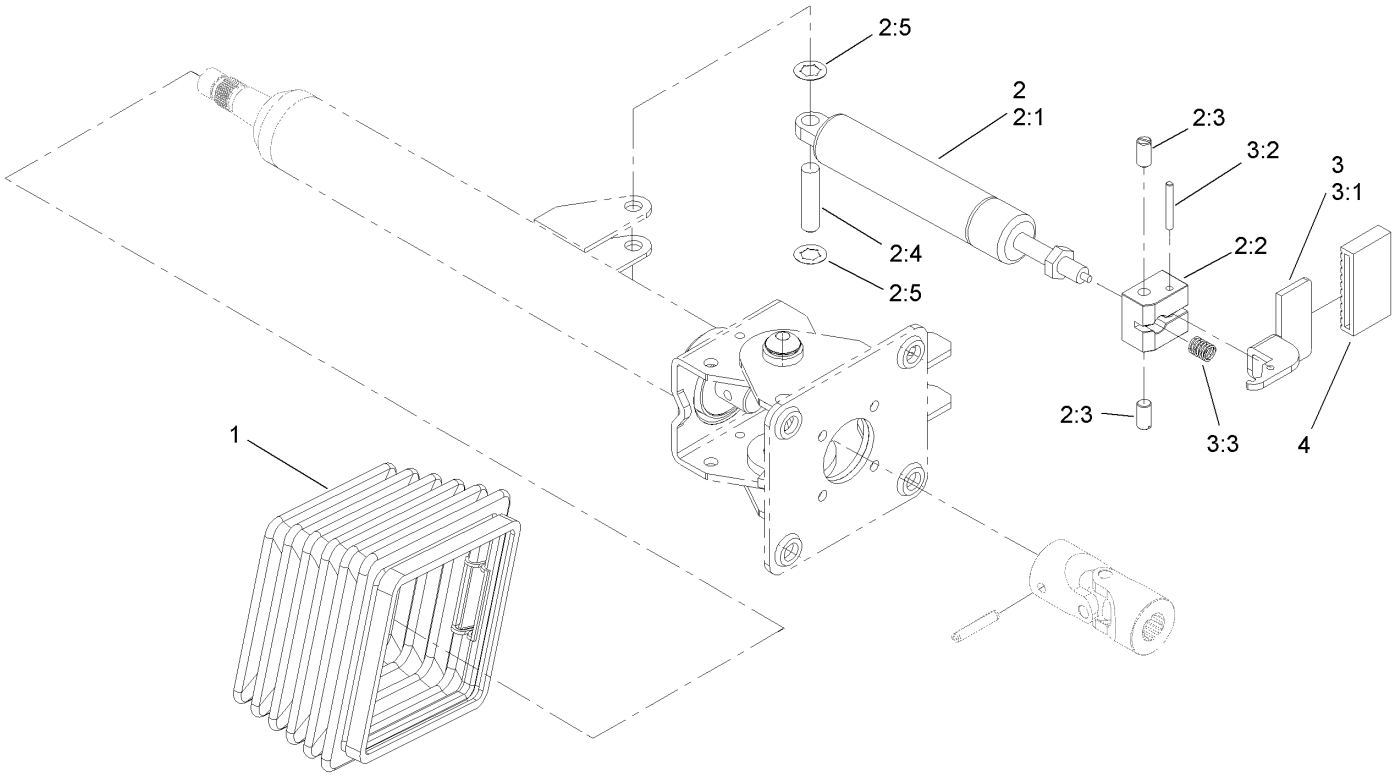
Ref.	Part Number	Qty.	Description
20	114-8108-03	1	Tube-RH
21	114-8109-03	1	Tube-LH
22	117-2358-03	1	Tube-Hood, RH
23	114-8102-03	1	Tube
24	115-9118-03	1	Tube-Frame, Hood
25	94-5781	26	Screw-HHF
26	104-7201	26	Nut-HF
27	3290-55	4	Rivet-Pop
28	59-9740	2	Flex Draw Latch ASM
28:2	249-40	1	Keeper
29	105-9877	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	117-4791	1	Bracket-Lock, Ce
37	107-0333	2	Rivet-Pop
38	321-11	1	Screw-HH
39	3296-56	1	Nut-Lock, NI



Steering Tower and Brake Pedal Assembly

Ref.	Part Number	Qty.	Description
1	98-1459	1	Decal
2	3296-33	1	Nut-Lock, NI
3	3256-27	1	Washer-Flat
4	98-1471	1	Wheel-Steering
4:1	98-1468	1	Cover-Wheel, Steering
5	93-5429	1	Collar-Foam
6	106-3622	1	Steering Tilt Column ASM
7	105-2409	4	Screw-HSH
8	3274-7	4	Screw-HSH
9	104-8301	4	Nut-Flange, NI
10	3234-11	4	Screw-HHF
11	115-4379-01	1	Brace-Column
12	114-8119	1	Steering Valve ASM
13	52-2891	2	Bushing-Flanged, Nylon
14	340-2	5	Fitting-HYD, Straight
14:1	237-22	1	O-Ring
14:2	237-42	1	O-Ring
15	112-4576	4	Nut-Clip, U
16	75-1470	1	Pin-Pivot, Brake
17	3256-69	3	Washer-Flat
18	115-4435	1	RH Brake Pedal ASM
18:2	256-42	2	Bushing
18:3	302-5	1	Fitting-Grease
19	115-4421-03	1	LH Brake Pedal ASM
20	32121-16	1	Pin-Spring
21	283-58	2	Pin-Clevis

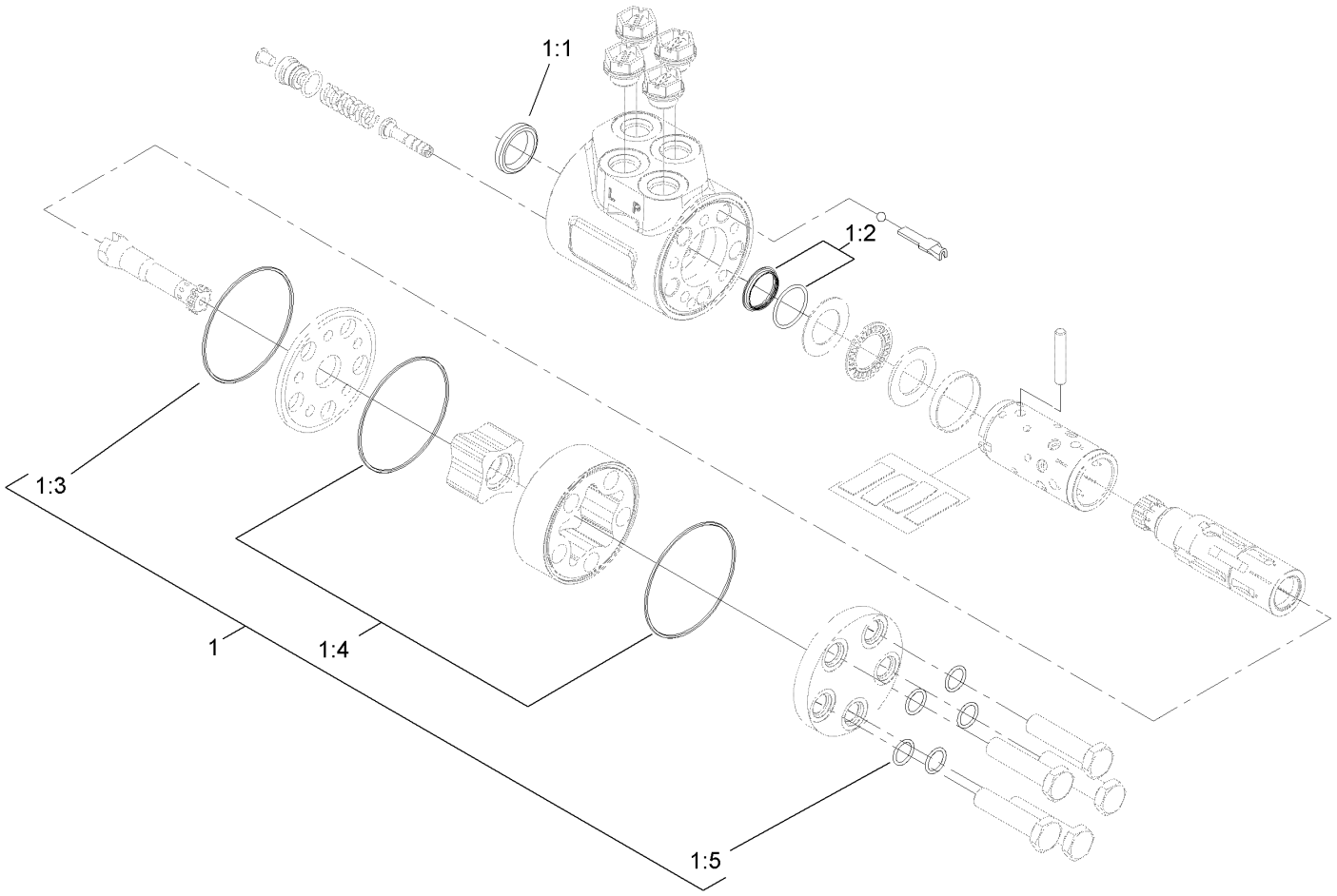
Ref.	Part Number	Qty.	Description
22	92-7530	1	LH Brake Cable ASM
23	92-7529	1	RH Brake Cable ASM
24	63-7880	1	Pin-Latch, Brake
25	32121-50	1	Pin-Spring
26	3272-10	2	Pin-Cotter
27	3290-378	1	Tie-Cable
28	99-7963-03	1	Pedal-Park
29	3234-13	2	Screw-HHF
30	99-7140	1	Spring-Torsion
31	115-4417	1	Rod-Brake Pawl
32	115-4414	1	Pawl-Brake
33	115-4413	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
39	104-8301	1	Nut-Flange, NI
40	106-7794-01	2	Plate-Mount, HYD Fitting
41	322-3	10	Screw-HH
42	3256-22	3	Washer-Flat
43	256-236	2	Bearing-Mount, Flange
44	32128-20	10	Nut-HF
45	3272-4	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

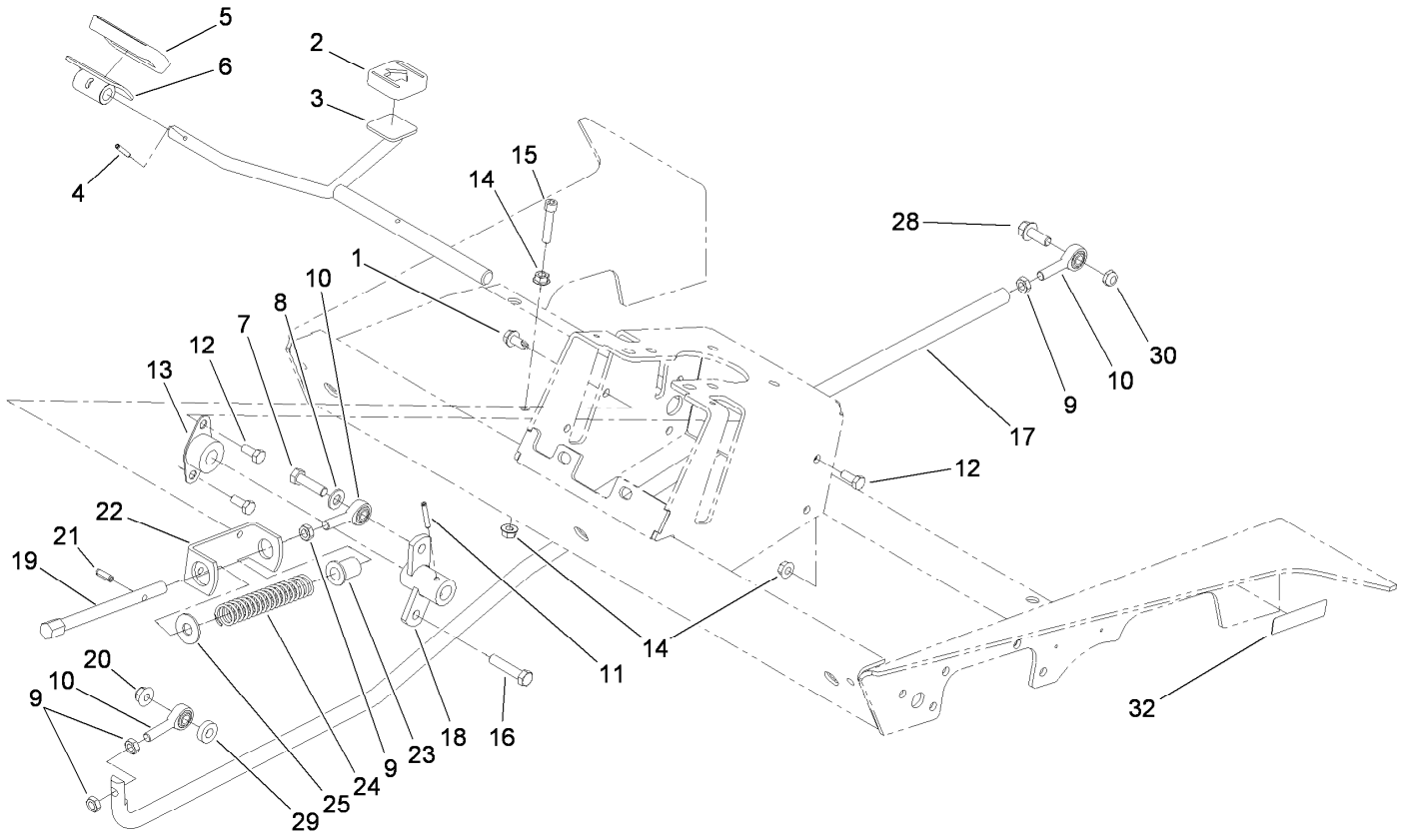
● Not serviced separately



Steering Valve Assembly No. 114-8119

Ref.	*Part Number*	*Qty.*	*Description*
1	106-6716	1	Seal Kit
1:1		1	Ring-Seal, Dust ●
1:2		1	Seal-Shaft ●
1:3		1	O-Ring ●
1:4		2	O-Ring ●
1:5		5	O-Ring ●

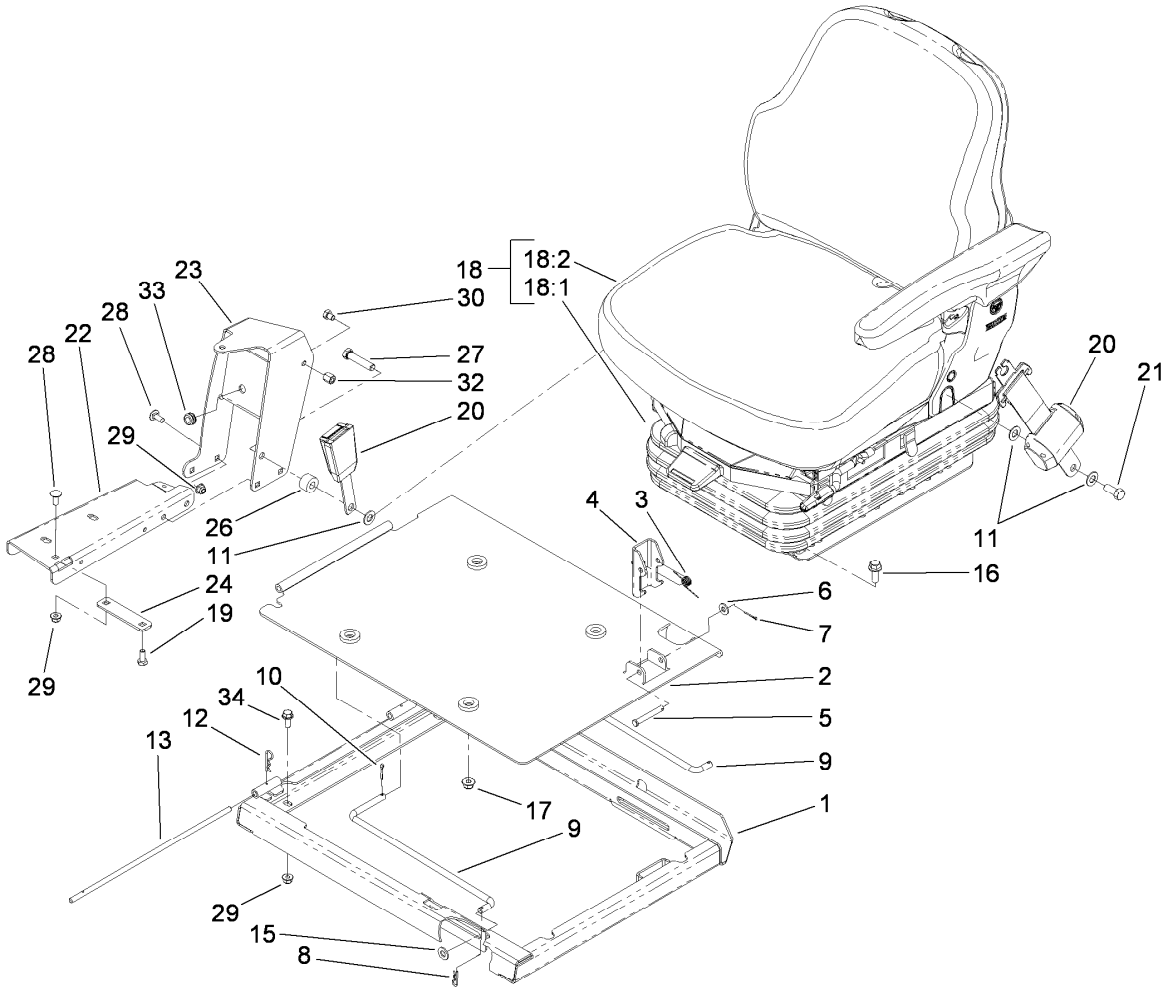
● Not serviced separately



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	49-6440-03	1	Pedal-Forward
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	322-3	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	Traction Hub Pivot ASM
19	115-4383	1	Shaft-Spring
20	104-8301	2	Nut-Flange, 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 Seat Frame Assembly

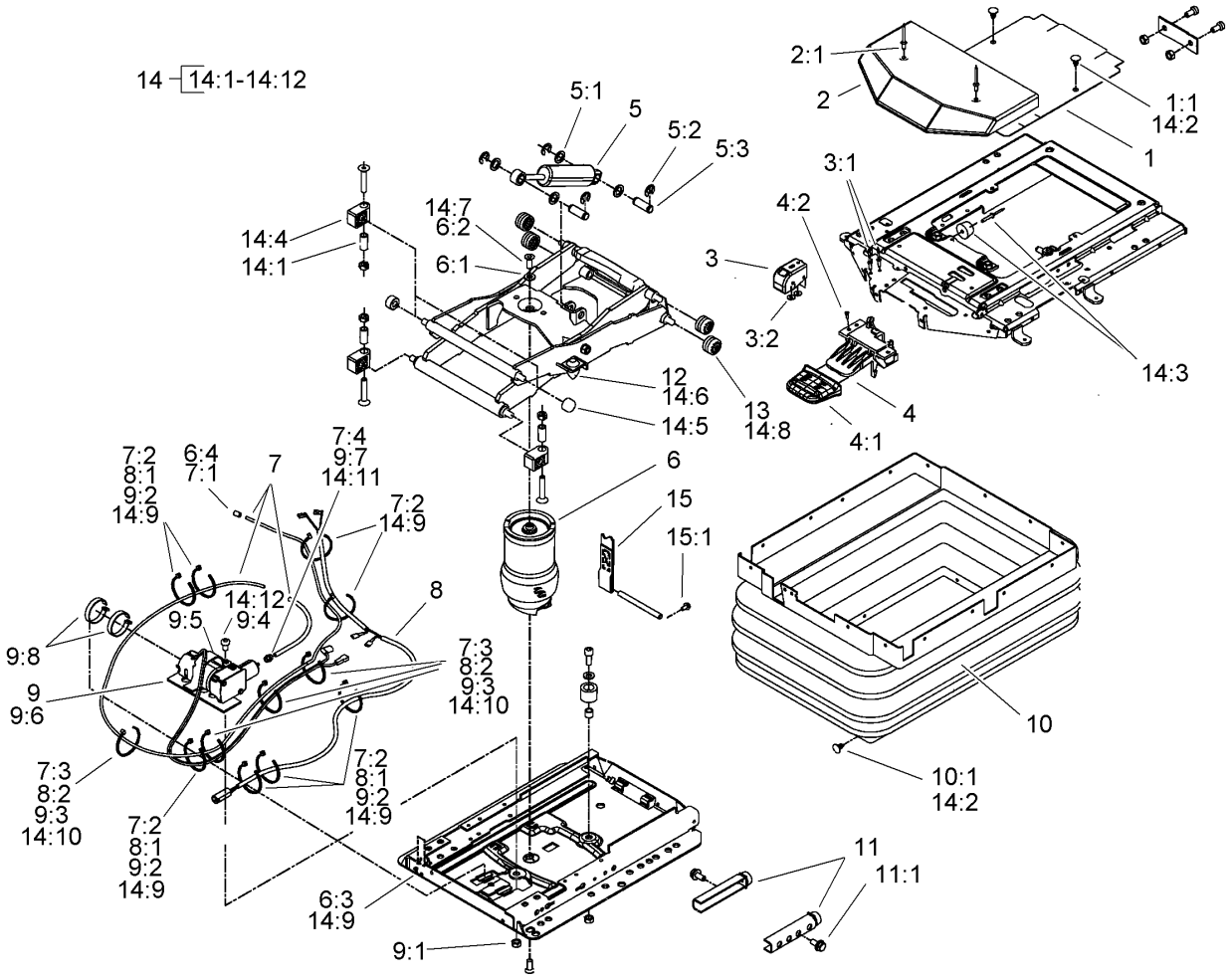
Ref.	Part Number	Qty.	Description
1	115-4400-03	1	Seat Frame ASM
2	115-4411-03	1	Seat Plate ASM
3	104-4821	1	Spring-Torsion
4	115-4423-03	1	Latch-Seat Plate
5	110-0618	1	Pin-Clevis
6	3256-2	1	Washer-Flat
7	3272-6	1	Pin-Cotter
8	3290-307	2	Pin-Hair
9	117-4797-03	2	Rod-Seat Frame
10	3272-10	2	Pin-Cotter
11	3256-25	3	Washer-Flat
12	3290-467	1	Pin-Hair
13	75-3400	1	Shaft-Pivot, Seat
15	3256-24	2	Washer-Flat
16	3234-42	4	Screw-HHF
17	104-8301	4	Nut-Flange, NI
18	108-1518	1	Seat And Suspension ASM

Ref.	Part Number	Qty.	Description
18:1		1	Seat Suspension ASM ●■
18:2		1	Seat-Premium ●▲
19	322-3	1	Screw-HH
20	110-0413	1	Seatbelt-Retractable
21	3212-4	1	Screw-HH
22	112-7437-03	1	Channel-Support
23	112-7446-03	1	Support-Arm
24	112-7449-03	1	Bracket-Support
26	17-7190	1	Spacer-Finger
27	3212-8	1	Screw-HH
28	3230-23	5	Screw-CARR
29	104-8300	9	Nut-Flange, 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

● Not serviced separately

▲ Serviced under Model Number 30622

■ Serviced under Model Number 30621

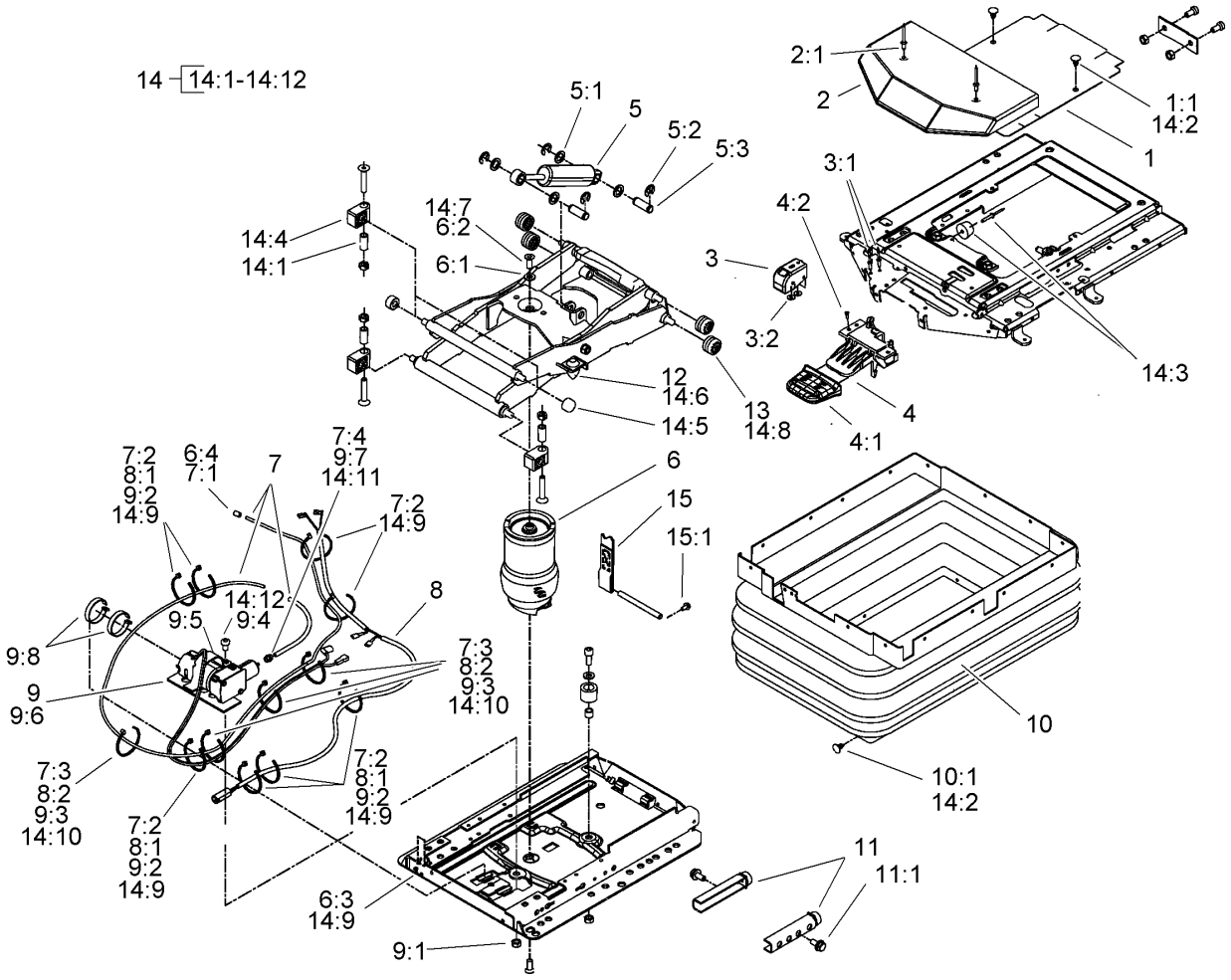


Air Ride Seat Suspension Assembly Model No. 30621

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

● Not illustrated

■ Not serviced separately

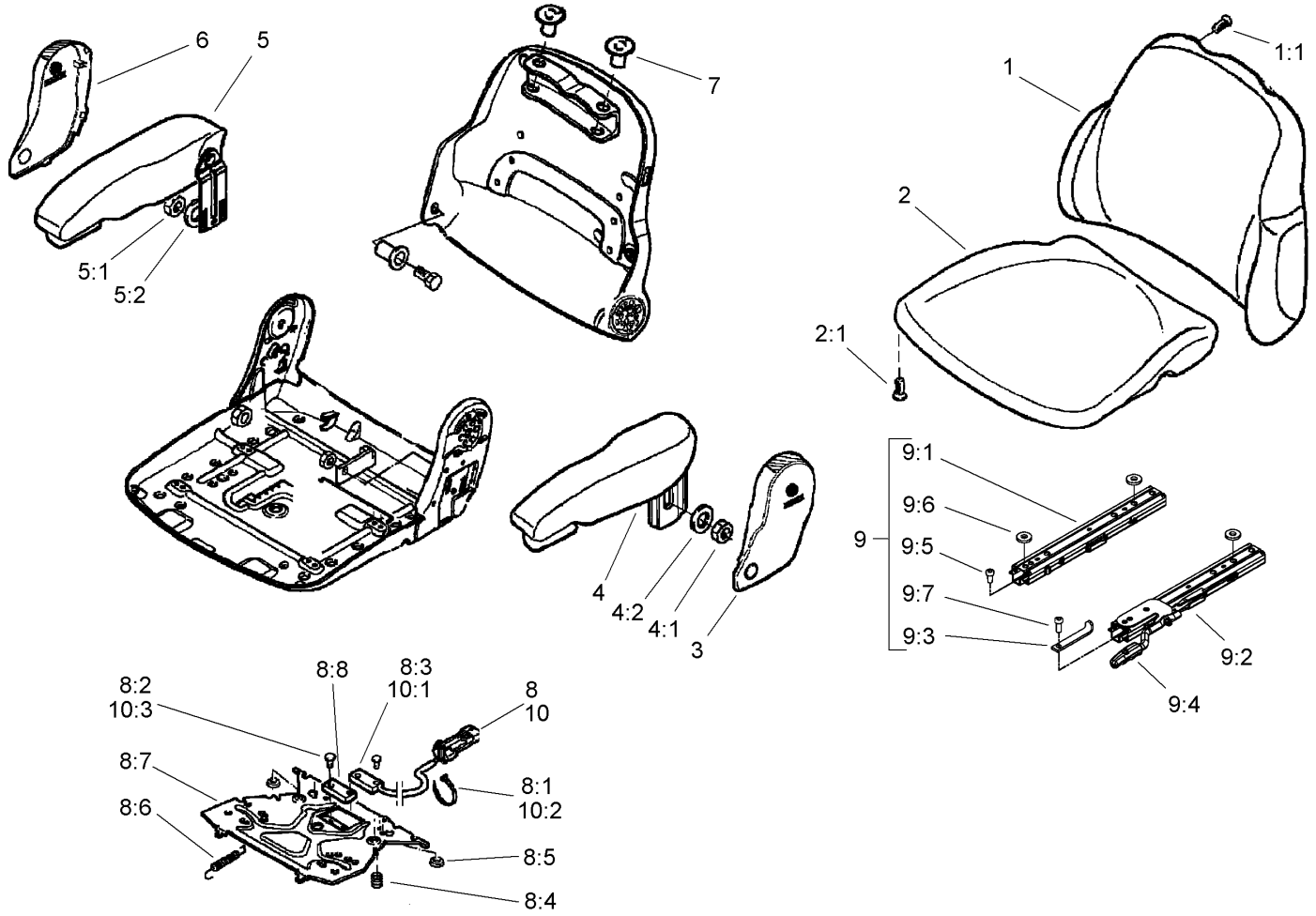


Air Ride Seat Suspension Assembly Model No. 30621 (continued)

Ref.	Part Number	Qty.	Description
14:10		4	Tie-Wire ■
14:11		1	Nipple-Hose ■
14:12		1	Screw ■
15	108-8023	1	Tether
15:1		4	Screw ■

● Not illustrated

■ Not serviced separately

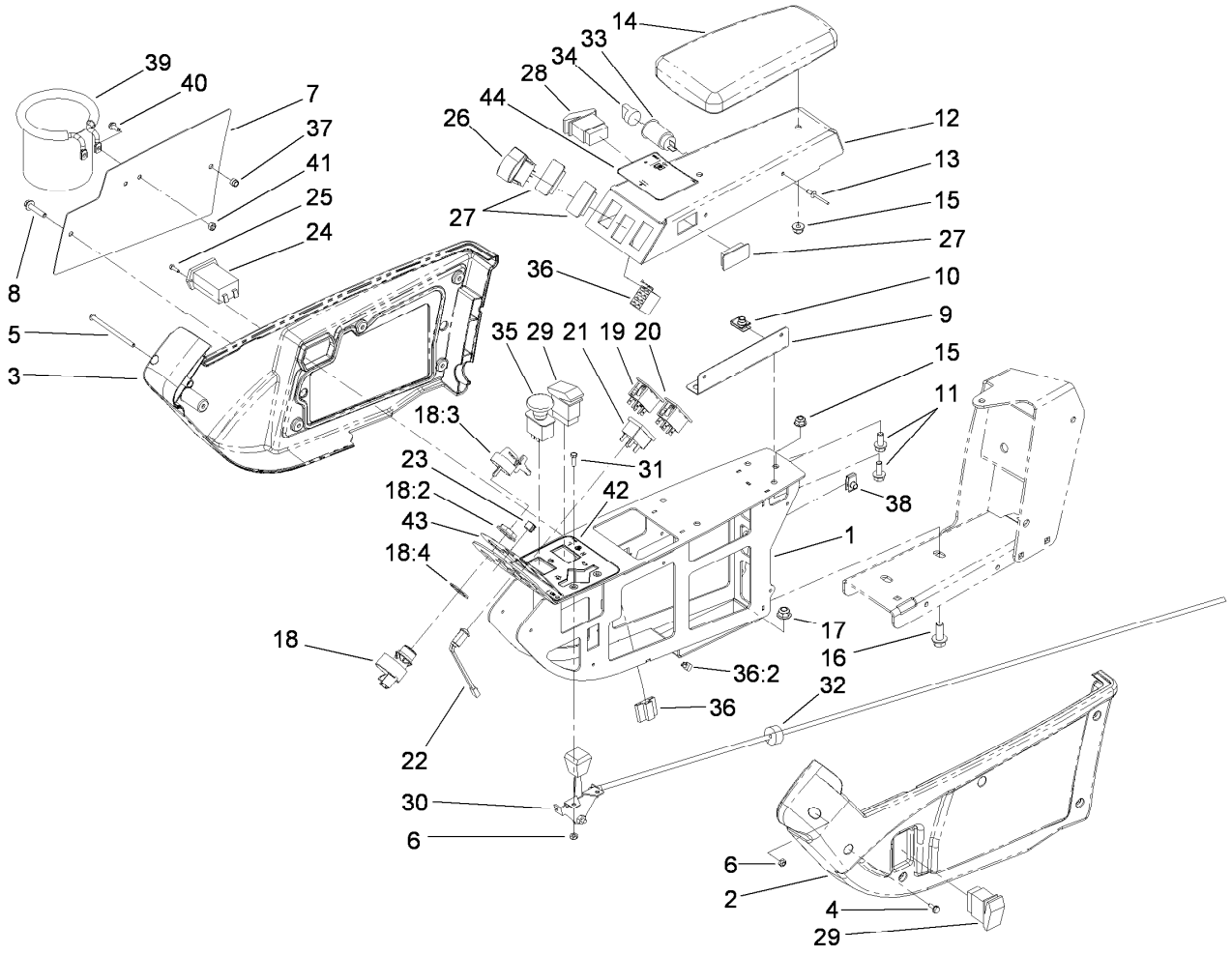


Premium Seat Assembly Model No. 30622

Ref.	Part Number	Qty.	Description
1	108-8016	1	Backrest Cushion ASM
1:1		3	Screw ●
2	108-8017	1	Seat Cushion ASM
2:1		4	Screw ●
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
5	108-8020	1	RH Armrest ASM
5:1	82-9650	1	Nut
5:2	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	Switch ●

Ref.	Part Number	Qty.	Description
8:4		2	Spring ●
8:5		2	Bumper ●
8:6		1	Spring-Return ●
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 ●

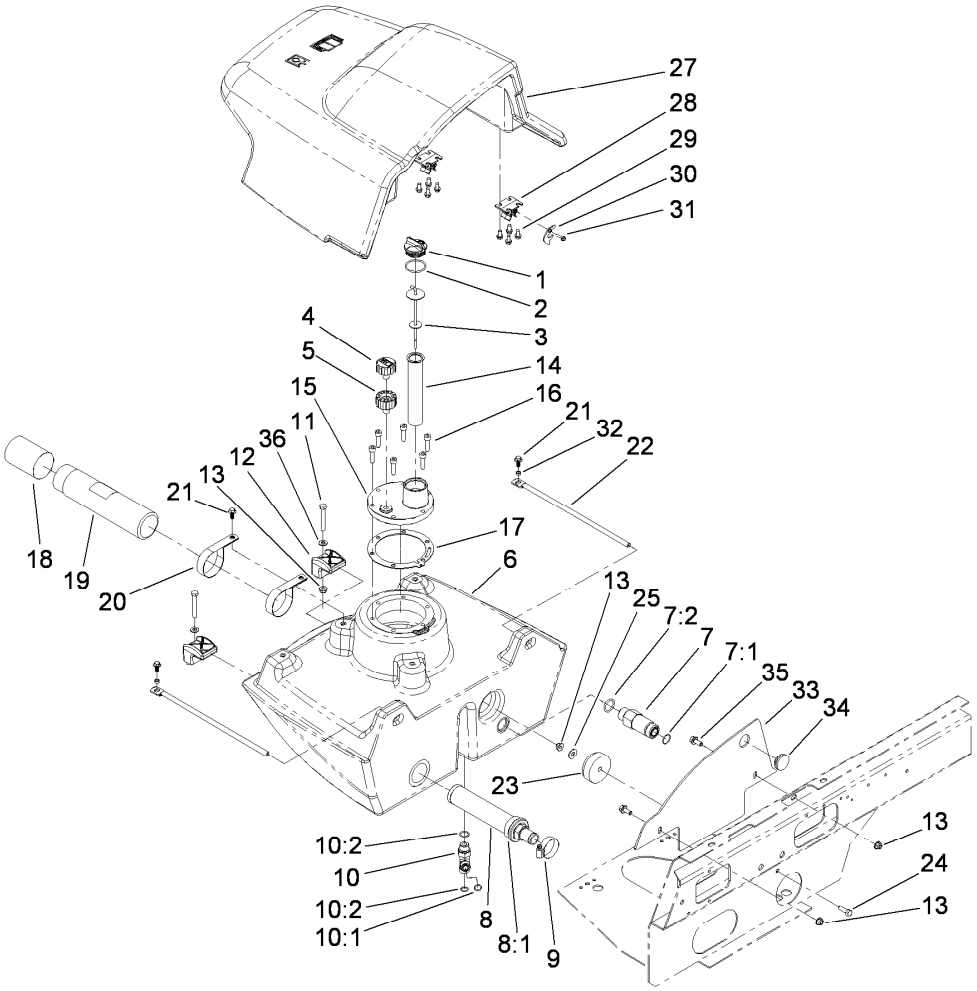
● Not serviced separately



Control Console Assembly

Ref.	Part Number	Qty.	Description
1	115-4430-03	1	Control Arm Frame ASM
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	4	U-Nut
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	3	Nut-Flange, NI
16	3234-42	2	Screw-HHF
17	104-8301	2	Nut-Flange, NI
18	106-5269	1	Ignition Switch ASM
18:2	108-8660	1	Nut-Mounting
18:3	106-5270	1	Key Set-Ignition
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

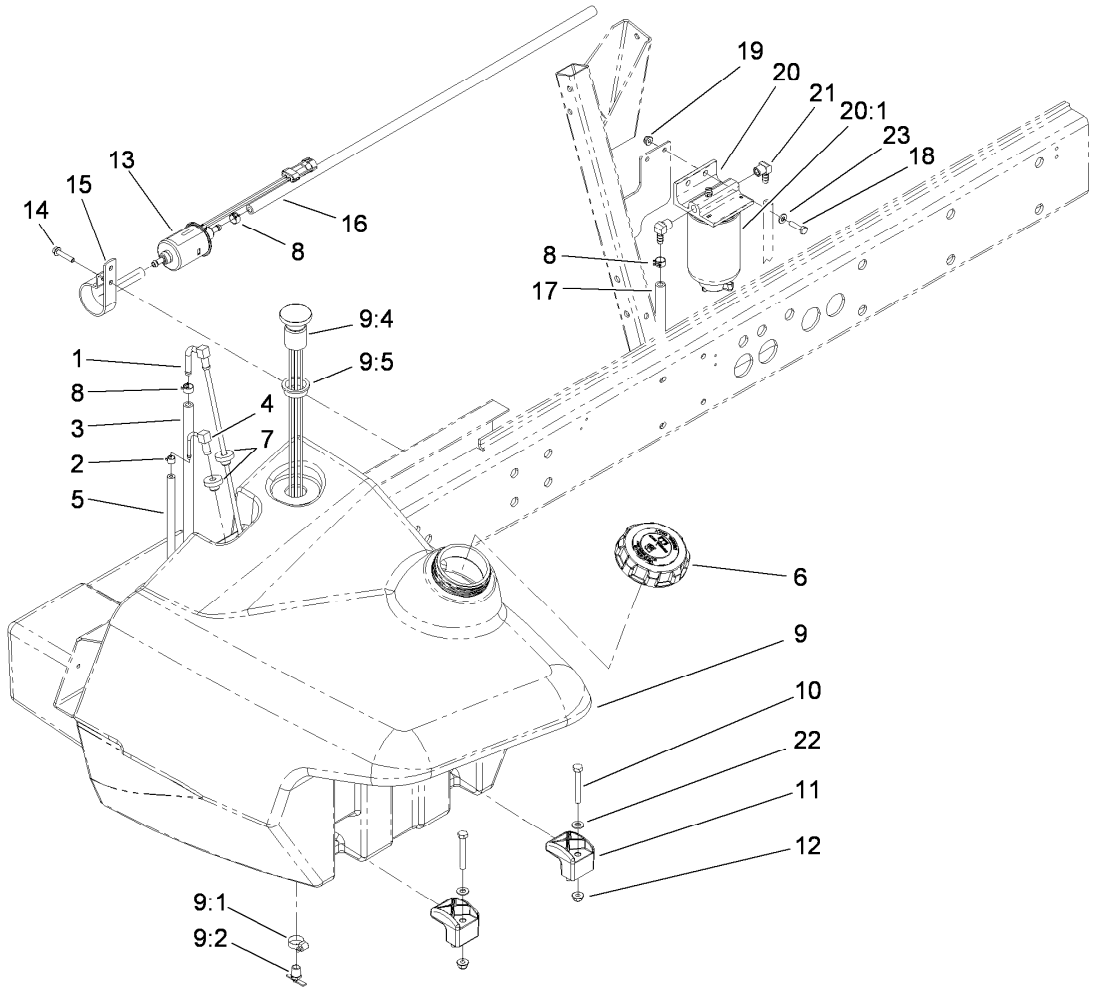
Ref.	Part Number	Qty.	Description
22	95-7652	1	Light-Indicator
23	2410-64	1	Plug-Button
24	75-6820	1	Hourmeter
25	32144-18	2	Screw-HH
26	100-1535	1	Switch
27	99-7420	3	Plug-Hole
28	106-2027	1	Switch-Intermittent
29	95-8999	2	Switch
30	115-9117	1	Cable-Throttle
31	3290-134	2	Screw
32	110-8911	1	Seal-Foam
33	99-7411	1	Point-Power
34	99-7416	1	Cap
35	93-9999	1	Switch-PTO
36	115-9104	1	Harness-Seat/Console
36:2	104-4022	1	Resistor-75 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	94-9411	1	Dipstick
4	68-6150	1	Breather
5	92-8020	1	Adapter-Breather
6	114-8116	1	Tank-HYD
7	92-6058	1	Fitting-HYD
7:1	237-81	1	O-Ring
7:2	237-58	1	O-Ring
8	104-7546	1	Strainer-Tank
8:1	340-136	1	O-Ring
9	2412-111	2	Clamp
10	340-109	1	Fitting-HYD, 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	5	Nut-Flange, NI
14	61-2790	1	Filter-Screen
15	108-7641	1	Cap-Tank, HYD

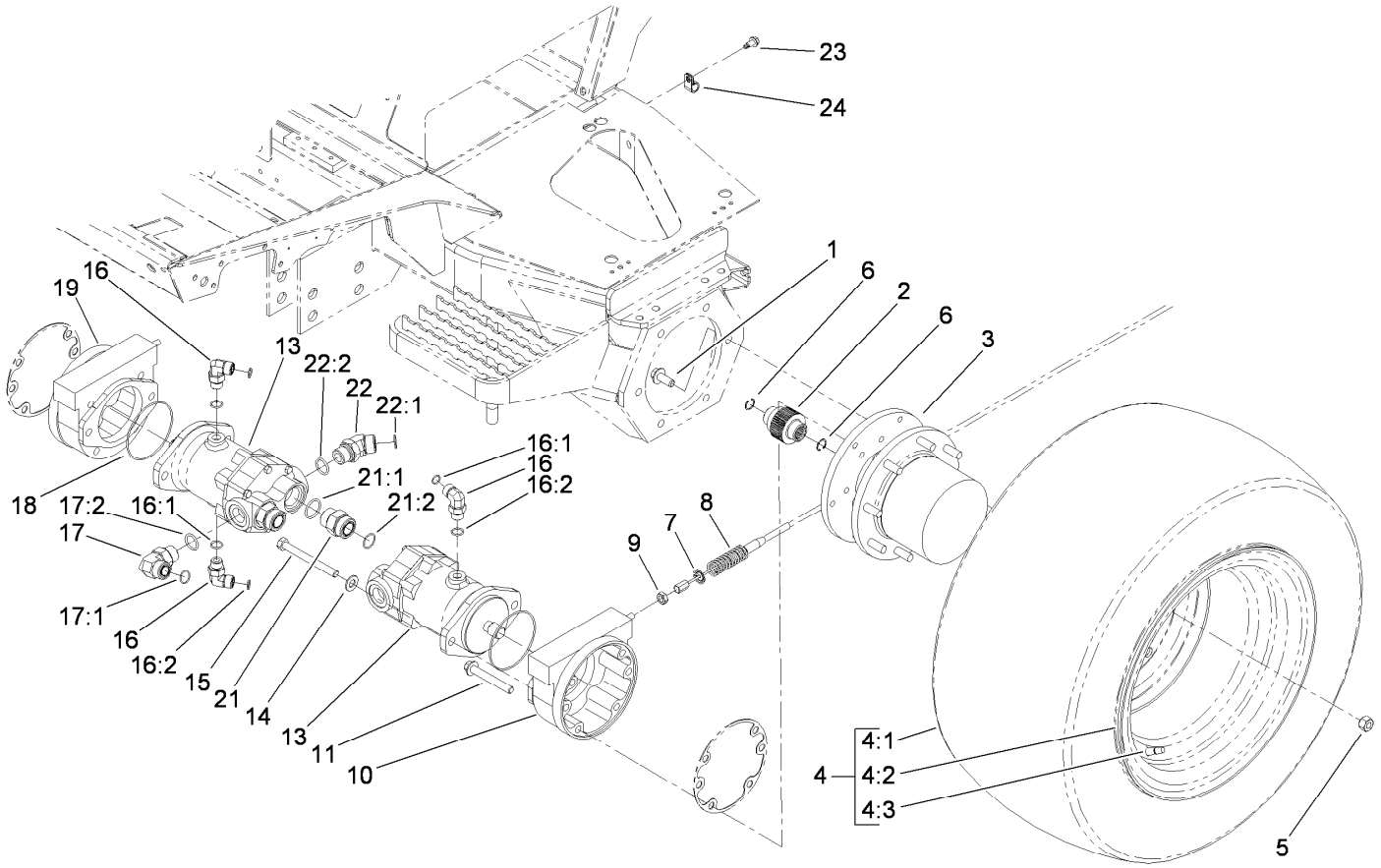
Ref.	Part Number	Qty.	Description
16	94-3559	6	Screw-HSH
17	94-2660	1	Gasket-Flange
18	104-7048	1	Cap-Housing
19	104-7050	1	Tube-Manual
20	2412-133	2	R-Clamp
21	99-6810	4	Screw-HH
22	114-8136	2	Rail-Slide
23	108-1605	1	Bumper-Recess
24	322-5	1	Screw-HH
25	3256-3	1	Washer-Flat
27	114-8133	1	Cover-HYD Tank
28	114-8137	4	Clip-Retainer
29	46-8093	16	Screw-Plastite
30	115-4350	2	Latch-Cover
31	98-1375	2	Screw-HWH
32	115-4355	2	Spacer
33	115-4397-03	1	Plate-HYD Tank
34	110-5333	1	Grommet-Plug
35	3234-47	2	Screw-HHF
36	3256-23	2	Washer-Flat



Fuel Tank and Filter Assembly

Ref.	Part Number	Qty.	Description
1	115-4354	1	Tube-Suction, Fuel
2	2412-80	2	Clamp-Line, Fuel
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-Flange, 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	Filter-Seperator
20:1	110-9049	1	Filter-Spin On
21	353-781	2	Fitting-Elbow
22	3256-23	2	Washer-Flat
23	3256-22	2	Washer-Flat

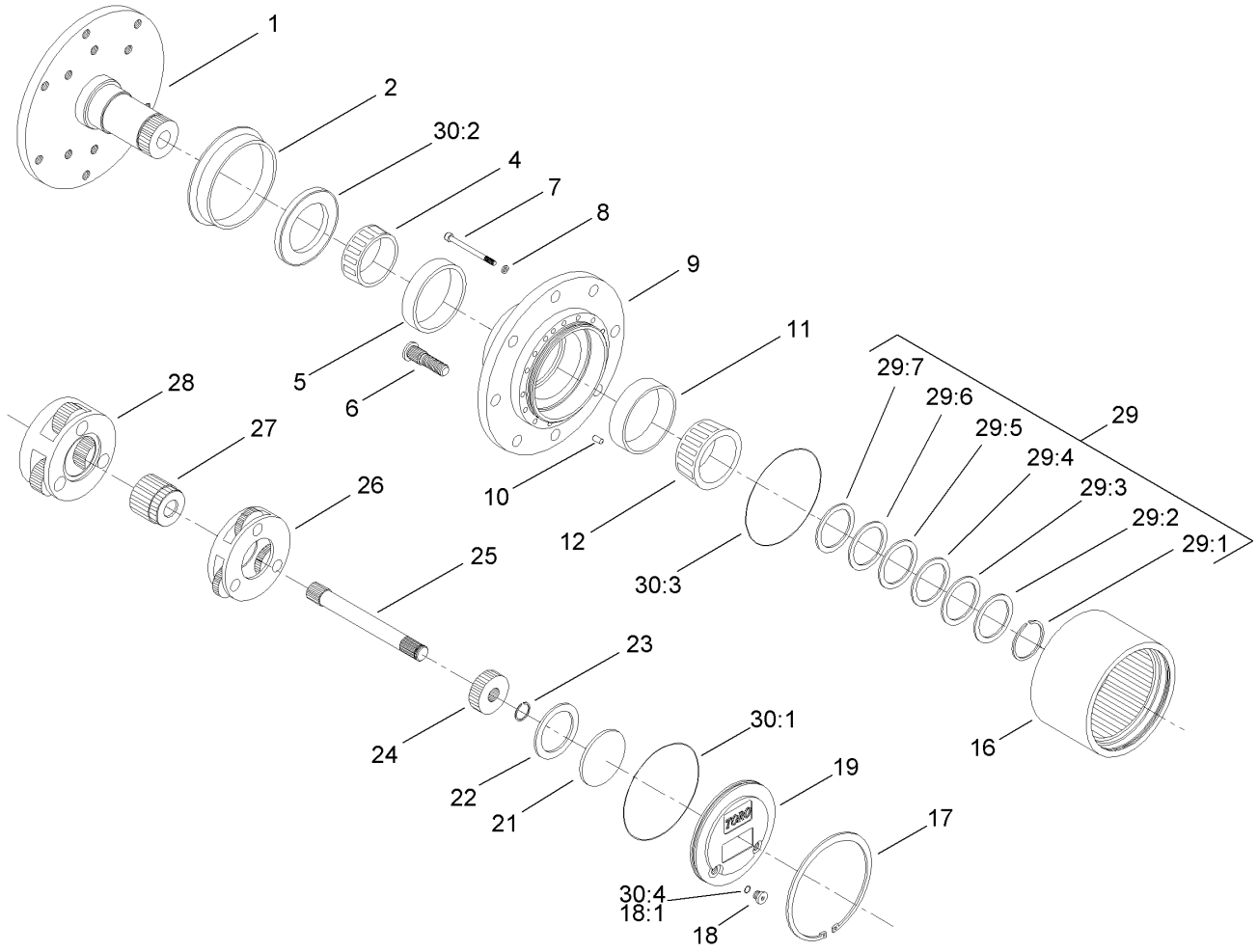


Front Drive and Brake Assembly

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	Wheel And Tire ASM ●
4:1	95-3465	1	Tire
4:2	114-8114	1	Rim (15X12-8)
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-HYD, 90 DEG
16:1	237-79	1	O-Ring
16:2	237-30	1	O-Ring
17	340-142	2	Fitting-HYD, 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-HYD, Straight
21:1	237-146	1	O-Ring
21:2	340-65	1	O-Ring
22	100-5530	2	Fitting-HYD, 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



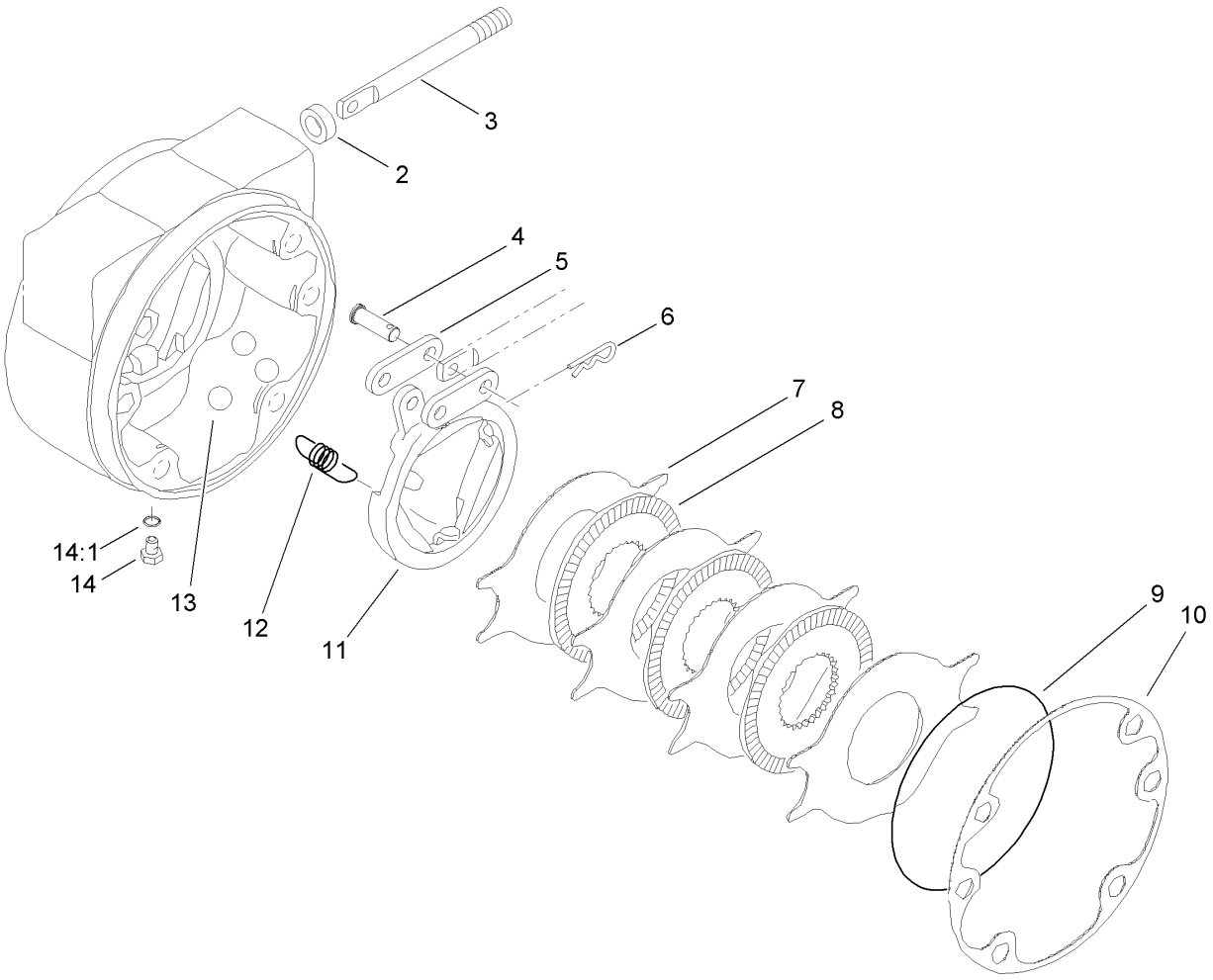
Planetary Assembly No. 105-4500-03

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
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	Primary Carrier ASM
27	105-8139	1	Gear-Secondary
28	105-8130	1	Secondary Carrier ASM
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

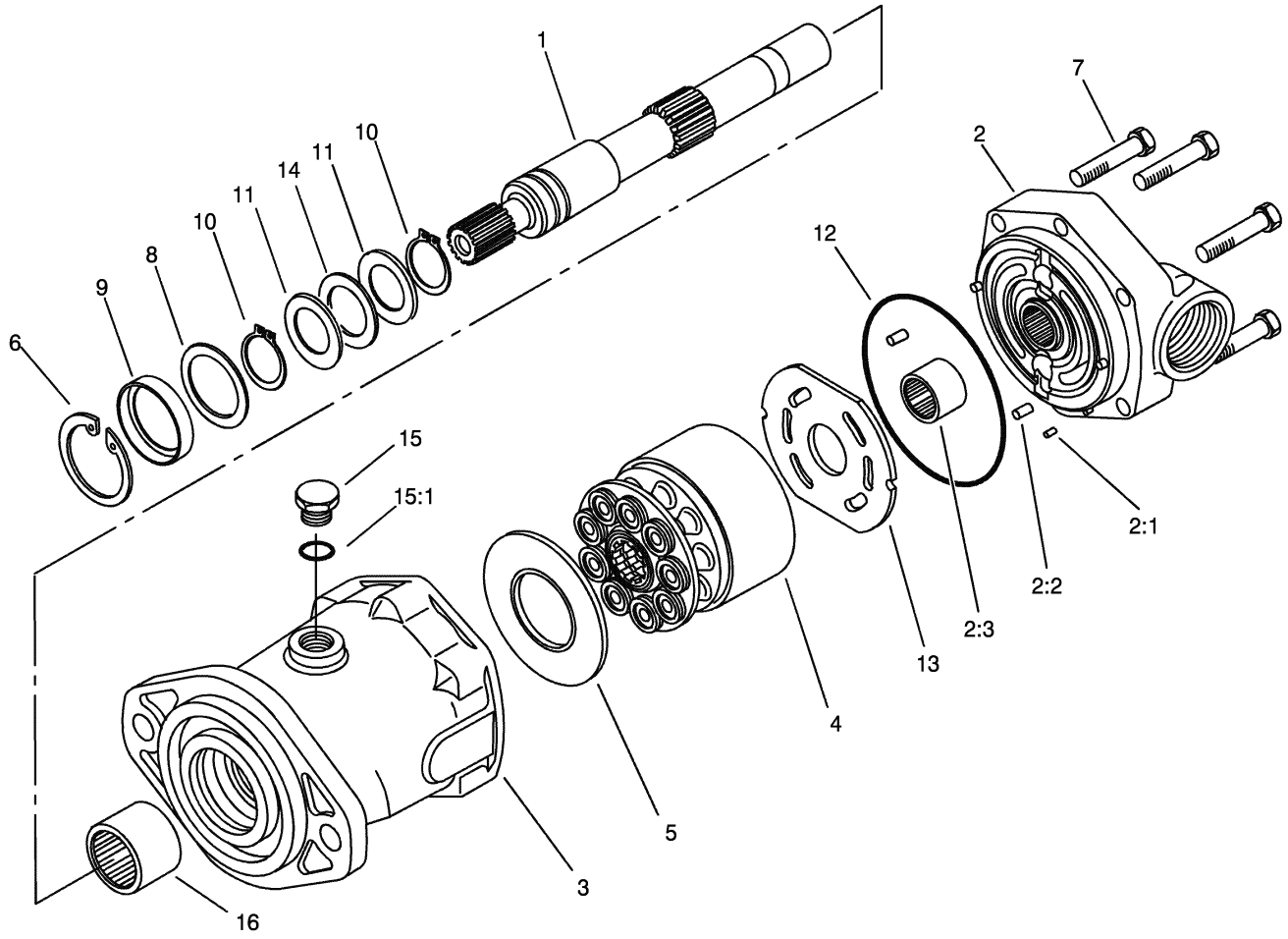
● Not illustrated

■ Not serviced separately



Brake Assembly No. 100-3070-03

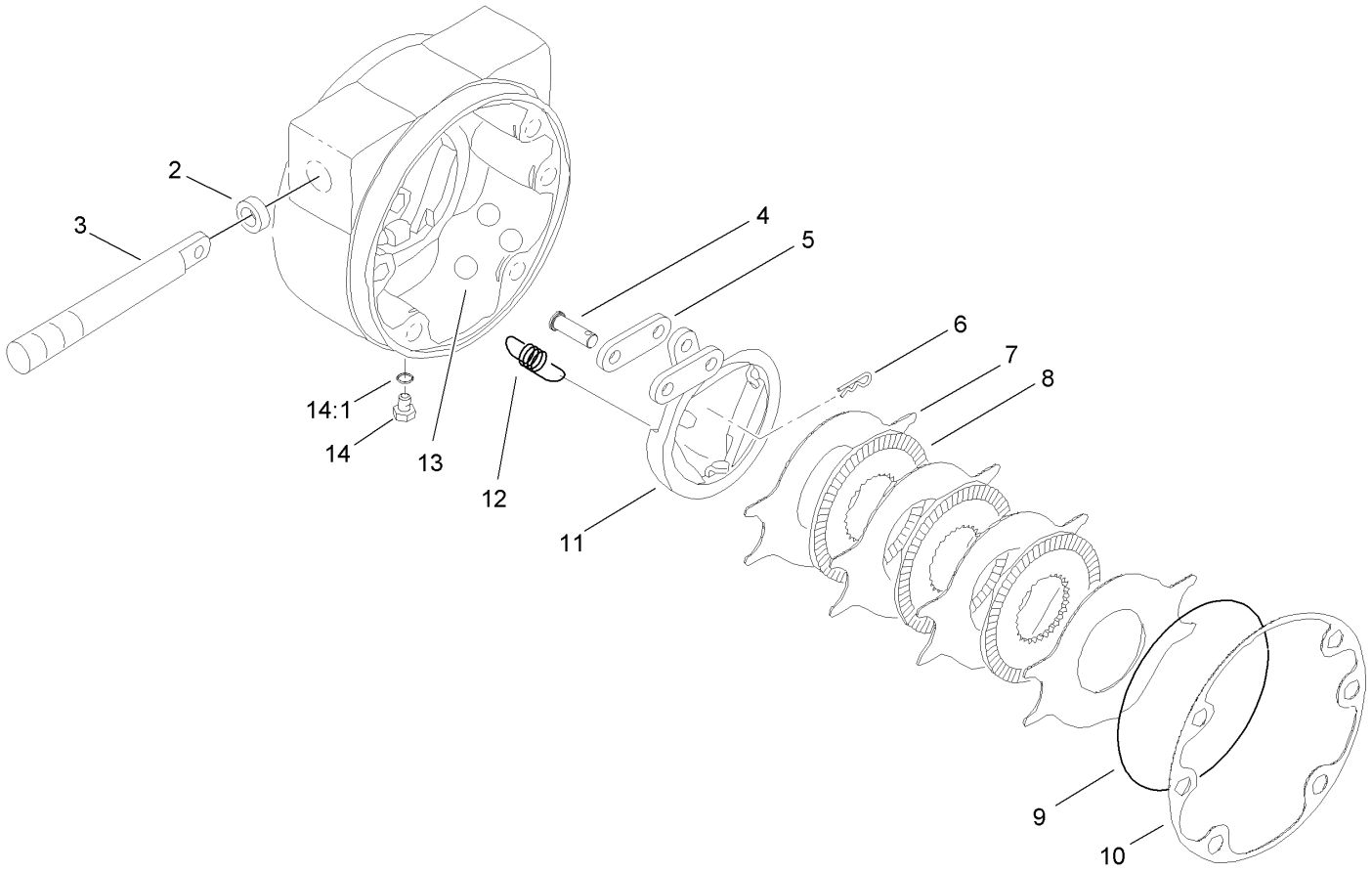
Ref.	*Part Number*	*Qty.*	*Description*
2	93-7977	1	Seal
3	93-7978	1	Rod-Pull
4	93-7983	2	Pin-Clevis
5	93-7980	2	Link
6	93-7979	2	Pin-Hitch
7	93-7986	4	Disc-Stationary
8	104-4278	3	Disc-Rotating
9	93-7976	1	Ring-Retaining
10	93-7984	1	Gasket
11	104-4279	1	Actuator-Rotating
12	93-7987	3	Spring-Extension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



Piston Motor Assembly No. 105-1218

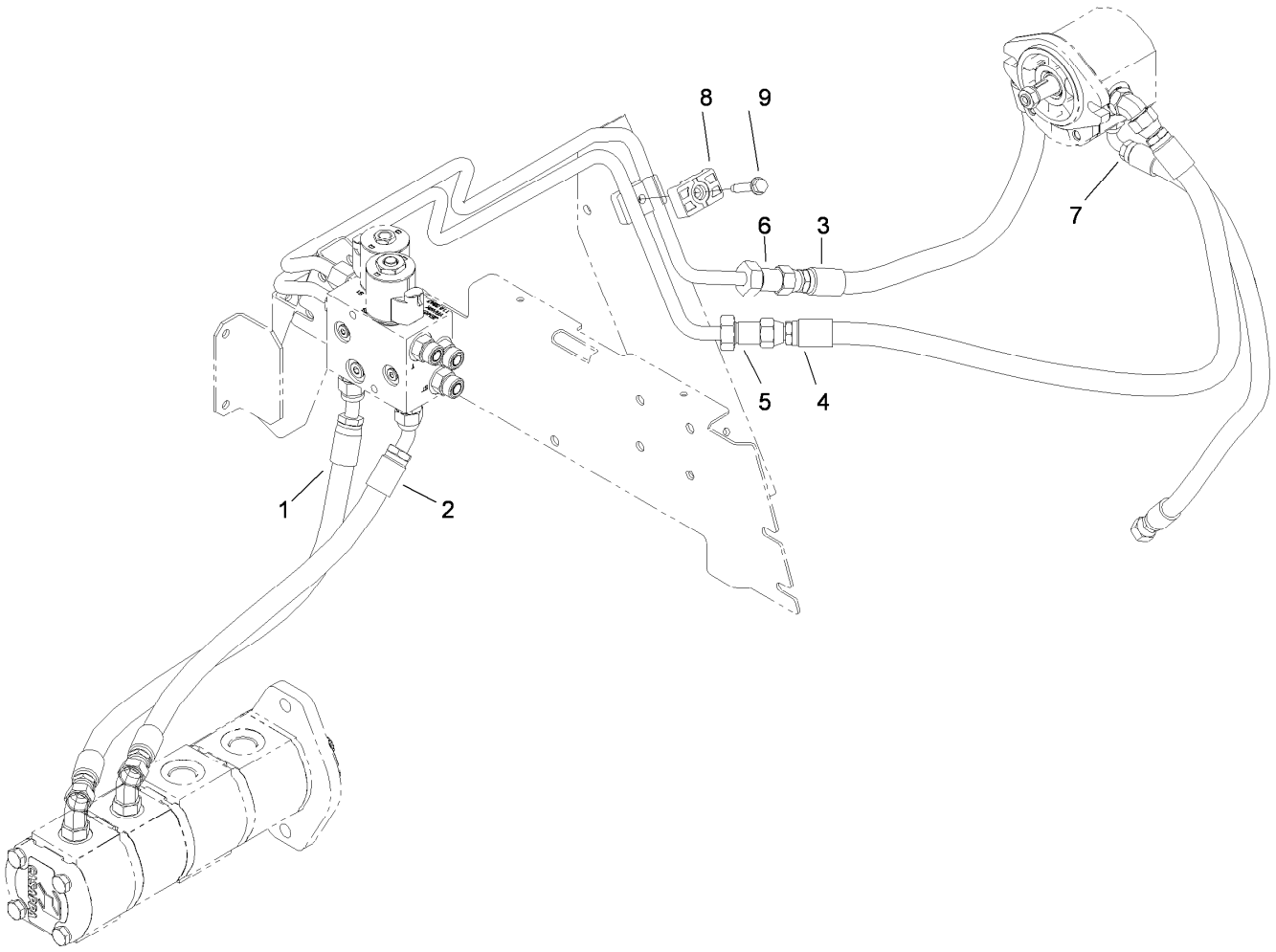
Ref.	*Part Number*	*Qty.*	*Description*
1	94-3004	1	Shaft-Drive, Splined
2	105-2851	1	Backplate ASM
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring
7	94-3002	6	Capscrew
8	60-6240	1	Washer
9	105-3331	1	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



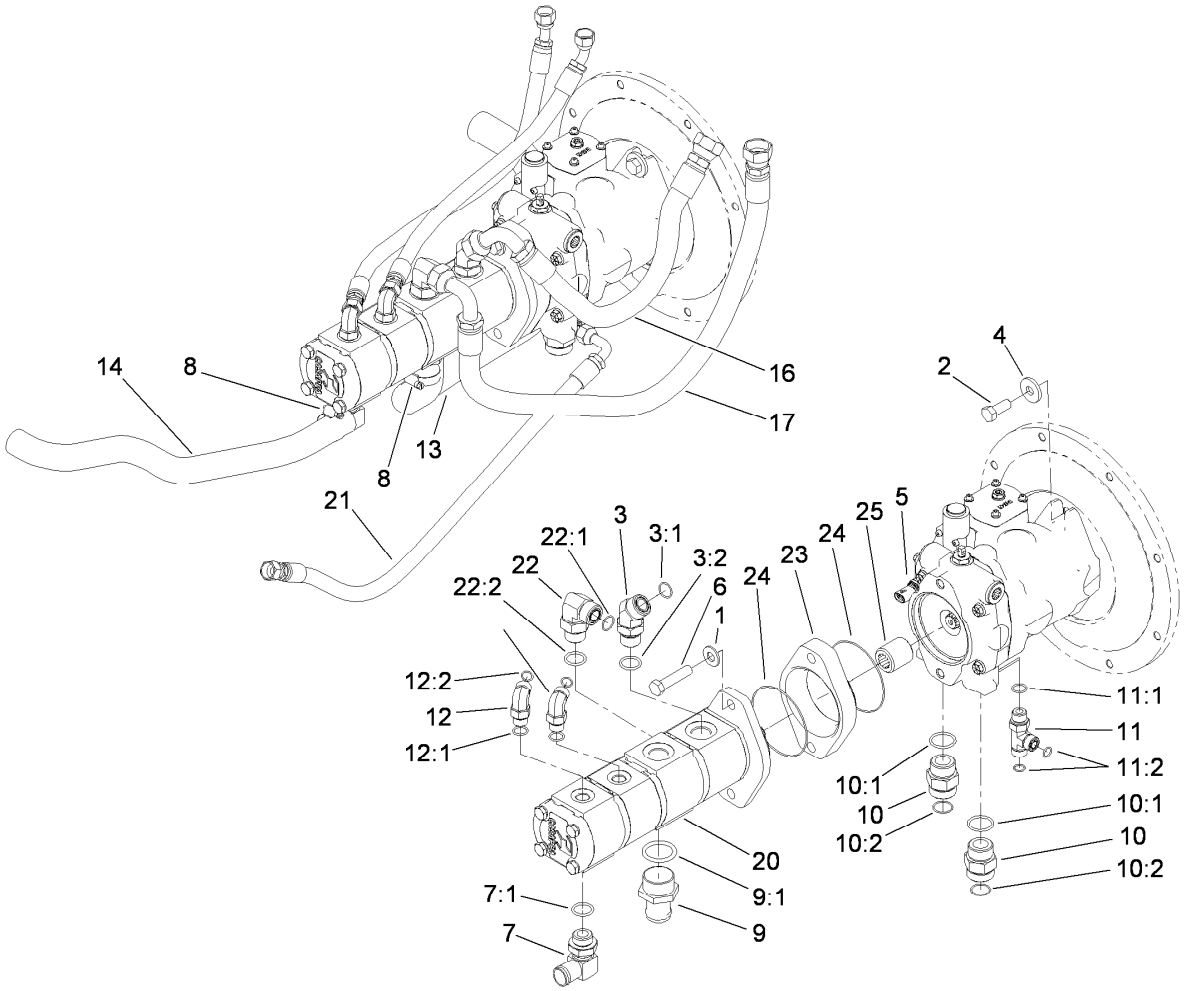
Brake Assembly No. 100-3069-03

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
14:1	237-78	1	O-Ring



Fan Plumbing Assembly

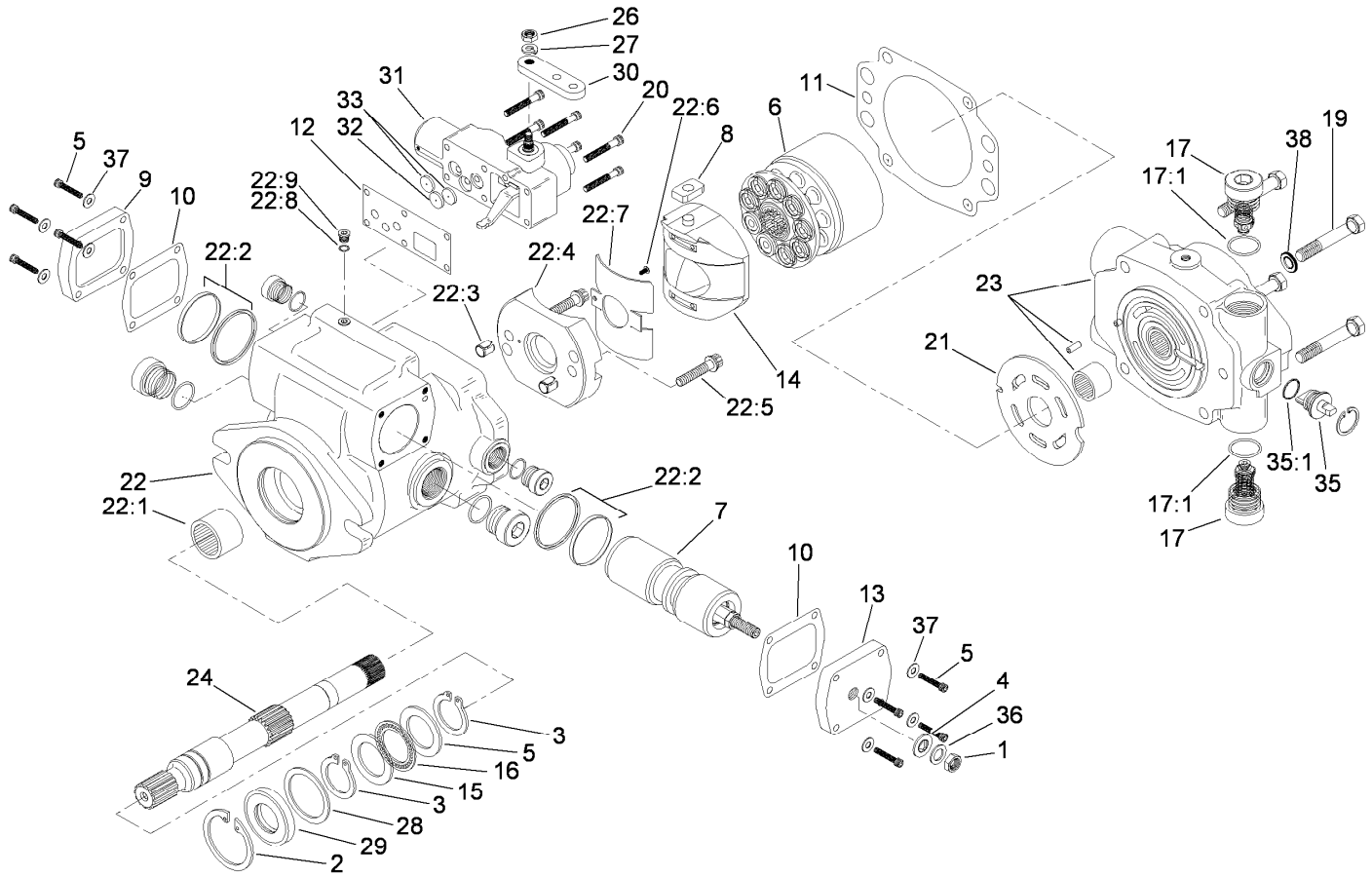
Ref.	*Part Number*	*Qty.*	*Description*
1	115-4438	1	Hose ASM
2	115-4439	1	Hose ASM
3	92-2406	1	HYD Hose ASM
4	115-9116	1	Hose ASM
5	115-9122	1	Tube-HYD
6	115-9123	1	Tube-HYD
7	115-4434	1	Hose ASM
8	56-7976	2	Clamp-Tube
9	32144-57	1	Screw



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-HYD, 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	325-9	2	Screw-HH
7	100-4202	1	Fitting-HYD, 90 DEG
7:1	237-81	1	O-Ring
8	2412-130	2	Clamp-Hose
9	104-5480	1	Fitting-Hose, Straight
9:1	237-123	1	O-Ring
10	104-3797	2	Fitting-HYD, Straight
10:1	237-146	1	O-Ring
10:2	340-65	1	O-Ring
11	340-109	1	Fitting-HYD, Tee

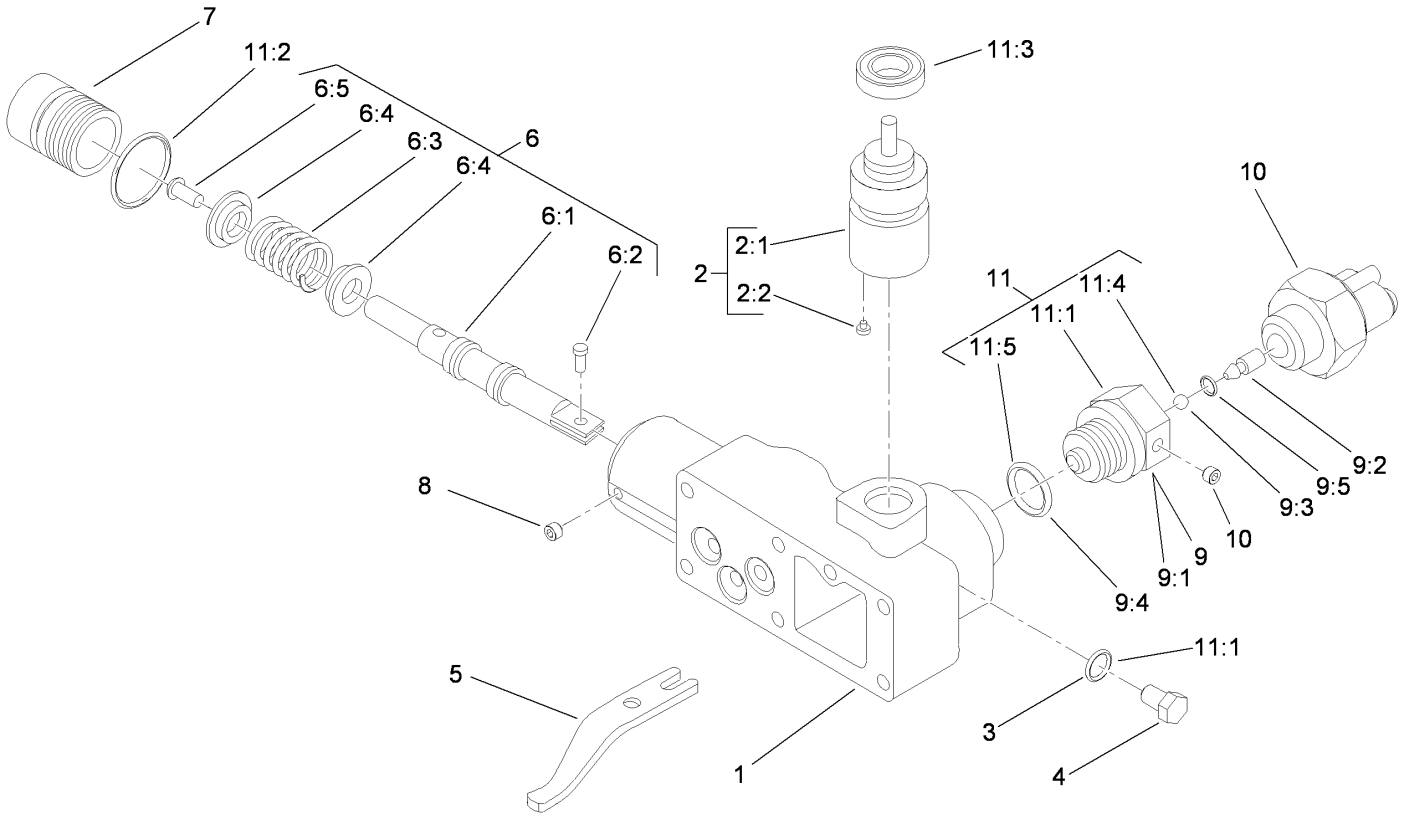
Ref.	Part Number	Qty.	Description
11:1	237-79	1	O-Ring
11:2	237-30	2	O-Ring
12	340-98	2	Fitting-HYD, 90 DEG
12:1	237-79	1	O-Ring
12:2	237-30	1	O-Ring
13	115-4449	1	Hose
14	115-4447	1	Hose-Suction
16	117-4762	1	Hose ASM
17	115-4384	1	Hose ASM
20	114-4189	1	4 Section Pump ASM
21	105-3985	1	Hose ASM
22	340-142	1	Fitting-HYD, 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 ●
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
29	105-3331	1	Seal-Shaft
30	110-0036	1	Arm-Control
31	115-4446	1	Manual Servo Control ASM
32	105-2909	1	Orifice-Control, .036 Dia
33	94-3041	2	Orifice-Control (.028 Dia)
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

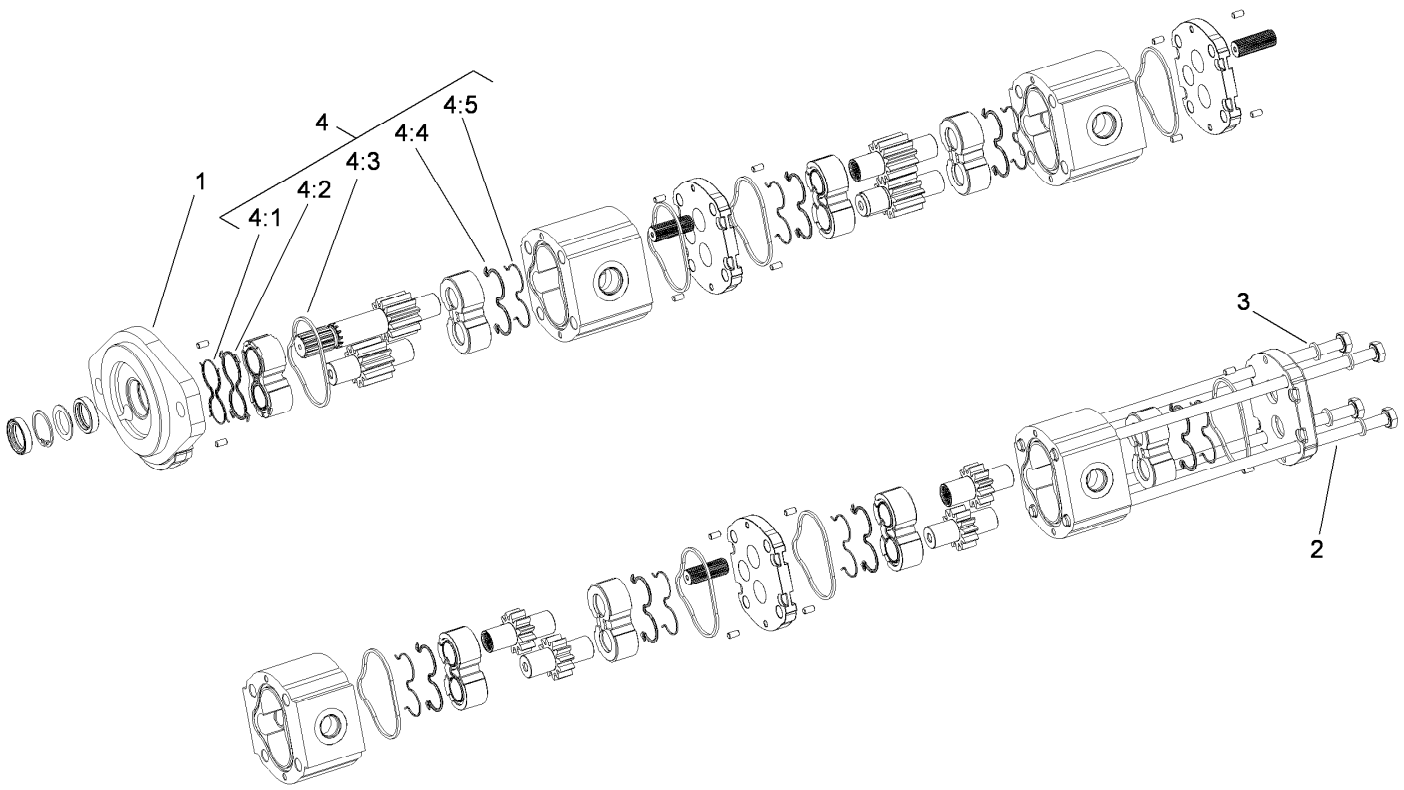


Control Assembly No. 115-4446

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		1	O-Ring ●
11:2		1	O-Ring ●
11:3		1	Seal-Wiper ●
11:4		1	O-Ring ●
11:5		1	O-Ring ●

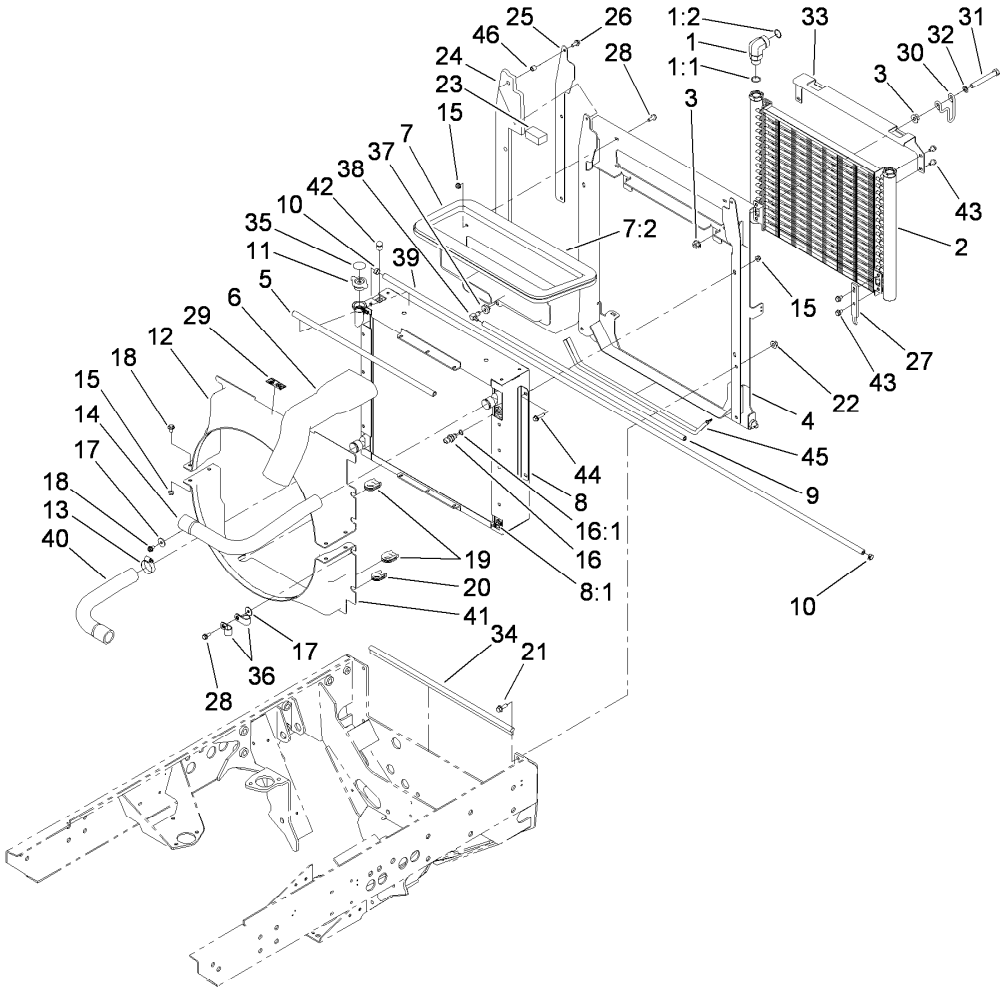
● Not serviced separately



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 ●

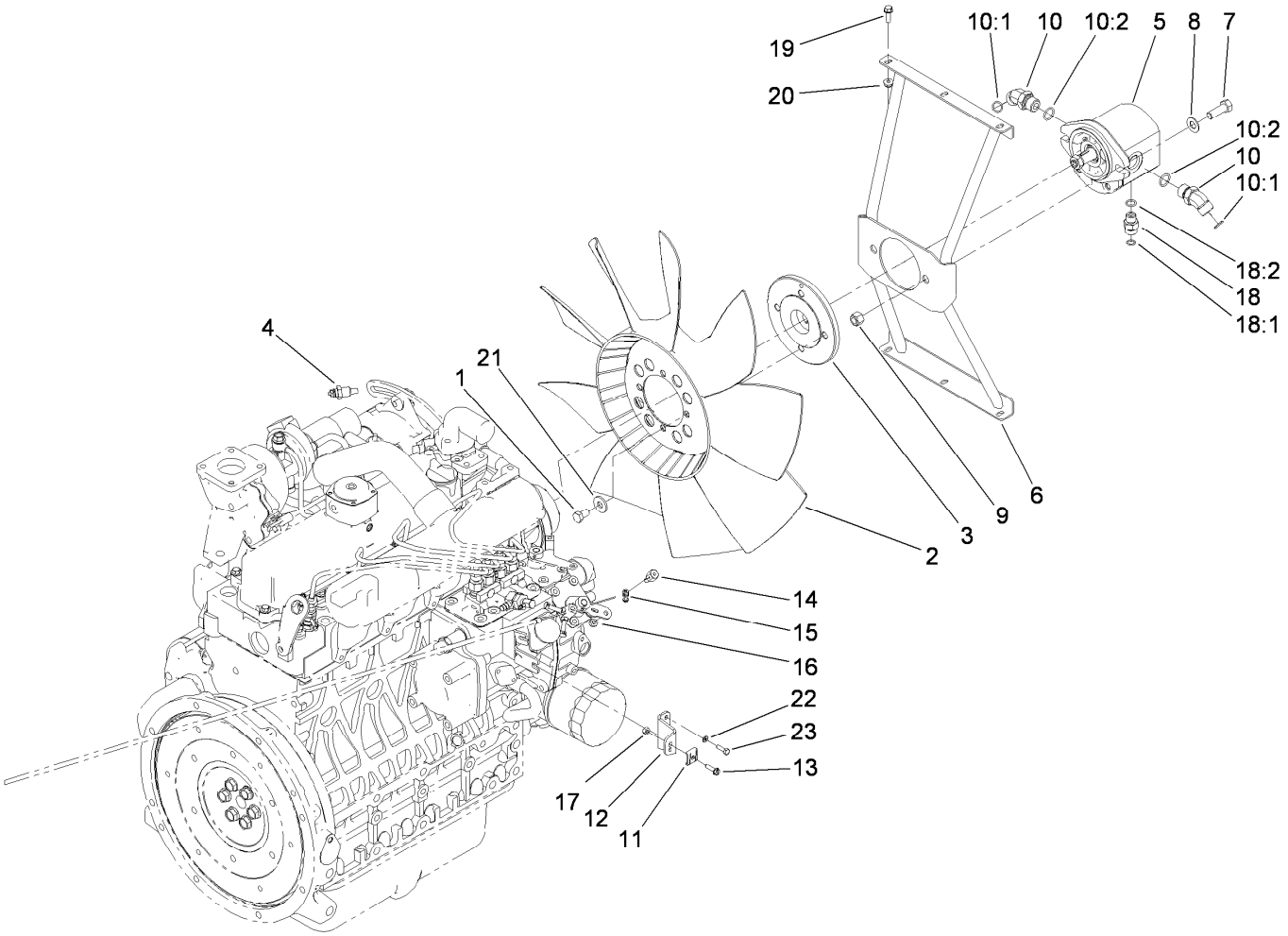
● Not serviced separately



Radiator Assembly

Ref.	Part Number	Qty.	Description
1	104-3796	2	Fitting-HYD, 90 DEG
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	114-3833	1	Radiator
8:1	304-46	1	Draincock
9	110-3258	1	Hose-Fuel
10	92-2379	3	Clamp-Hose
11	93-5957	1	Cap-Radiator
12	114-3816	1	Shroud-Radiator, Upper
13	2412-111	4	Clamp
14	114-3831	1	Hose-Radiator, Upper
15	104-8300	12	Nut-Flange, NI
16	110-8829	1	Sender-Temperature
16:1	237-42	1	O-Ring
17	3256-82	8	Washer-Flat
18	3234-7	11	Screw-HHF
19	115-3763	2	Grommet (.800 Id)
20	115-3764	1	Grommet (.680 Id)
21	3234-11	4	Screw-HHF

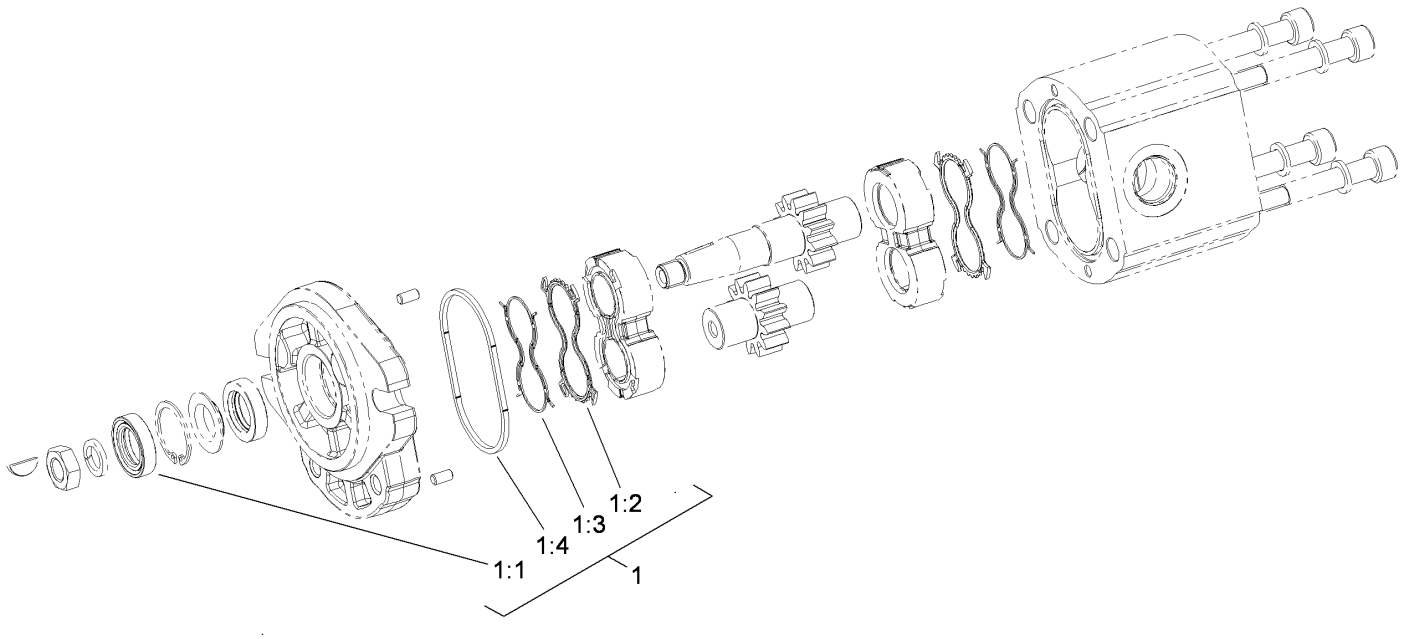
Ref.	Part Number	Qty.	Description
22	32128-43	4	Nut-Flange
23	115-9133	2	Seal-Foam
24	117-4780	2	Seal-Foam, Hood
25	117-4781-03	2	Bracket-Seal Hood
26	32144-41	2	Screw-Taptite
27	104-5460-03	2	Plate-Mount, Oil Cooler
28	3234-47	9	Screw-HHF
29	117-4766	1	Decal-Warning, Fan
30	104-5429	2	Clamp-Form, Wire
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
35	106-6755	1	Decal-Cap, Radiator
36	2412-81	2	Clamp-R
37	46-6560	1	Bushing
38	46-6550	1	Fitting-Elbow, 90 DEG
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
44	3234-36	4	Screw-HHF
45	117-4782	1	Seal-Bulb
46	1-603903	6	Spacer



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-Lock, NI
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

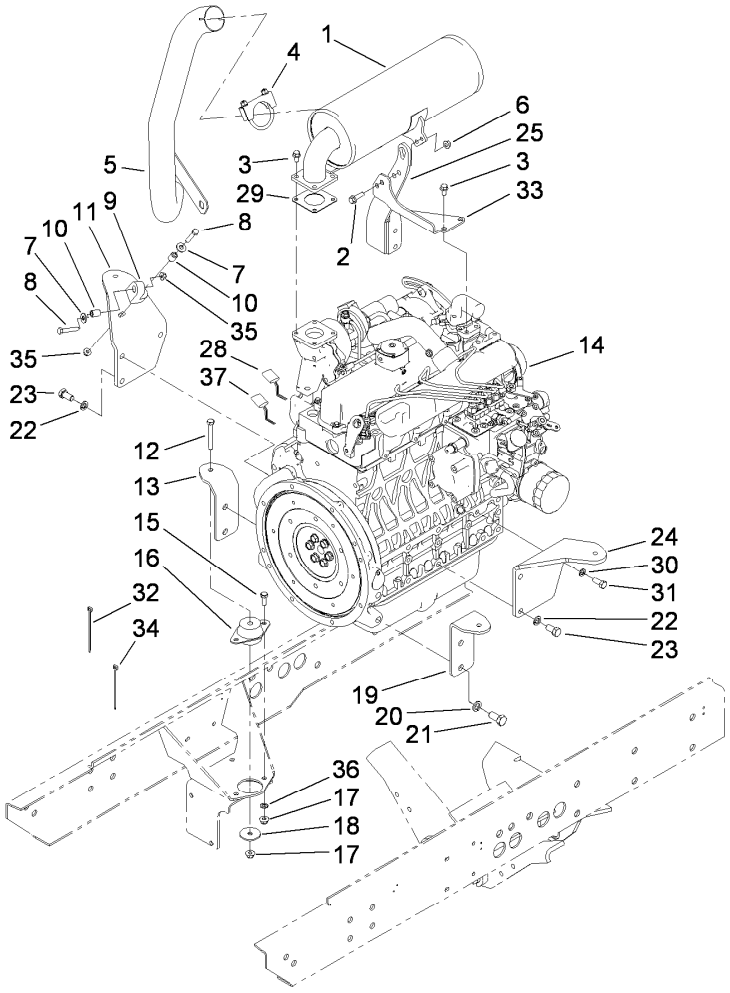
Ref.	Part Number	Qty.	Description
13	32105-13	1	Screw-HWH
14	93-0021	1	Swivel-Cable, Throttle
15	112-9919	1	Stop-Cable, Throttle
16	3296-13	1	Nut-Lock, NI
17	3296-2	1	Nut-Lock, NI
18	340-2	1	Fitting-HYD, Straight
18:1	237-22	1	O-Ring
18:2	237-42	1	O-Ring
19	99-6810	6	Screw-HH
20	104-7201	6	Nut-HF
21	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 ●

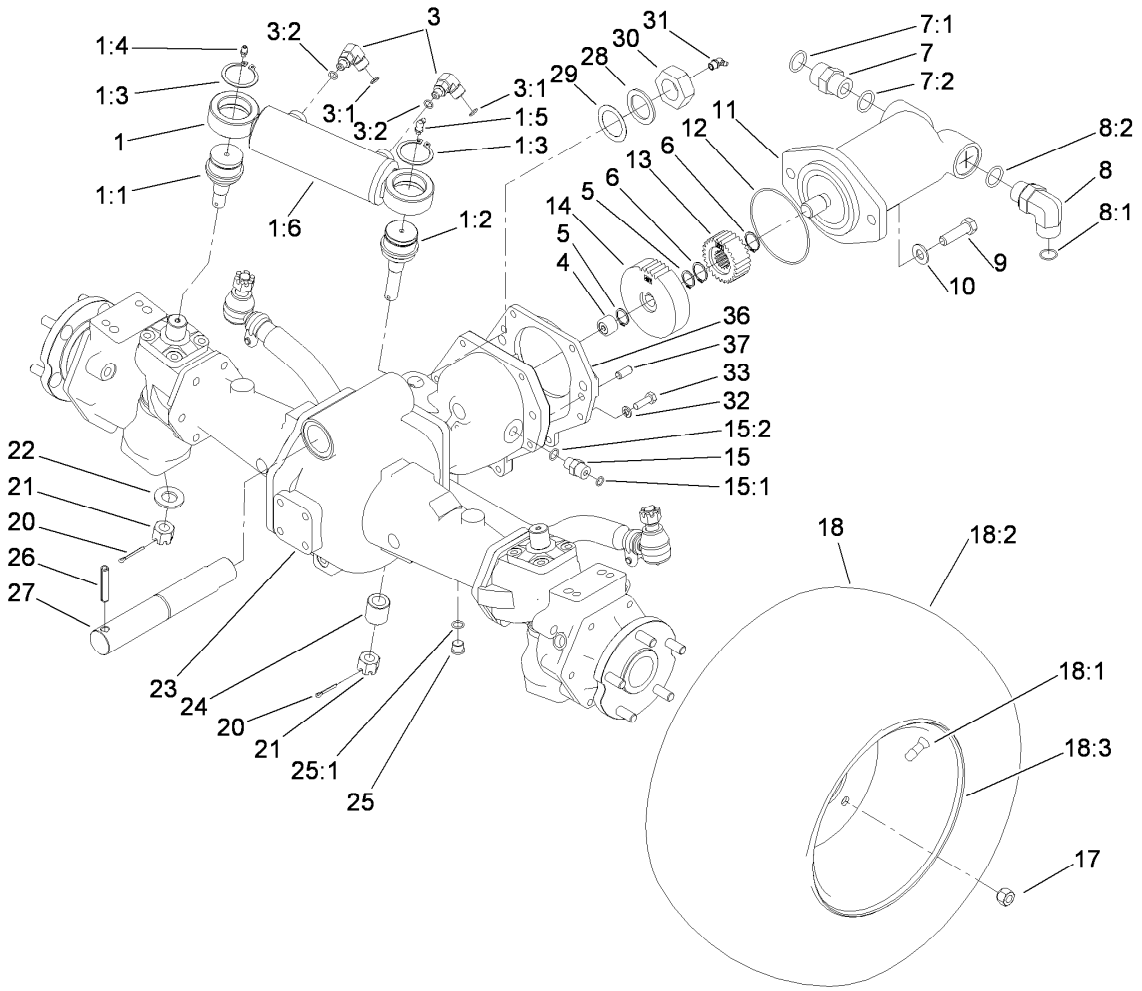
● Not serviced separately



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-Green
17	104-8301	14	Nut-Flange, 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-Flange, NI
36	3255-9	1	Washer-Lock
37	117-2372	1	Harness-Wire, Alternator (40A)

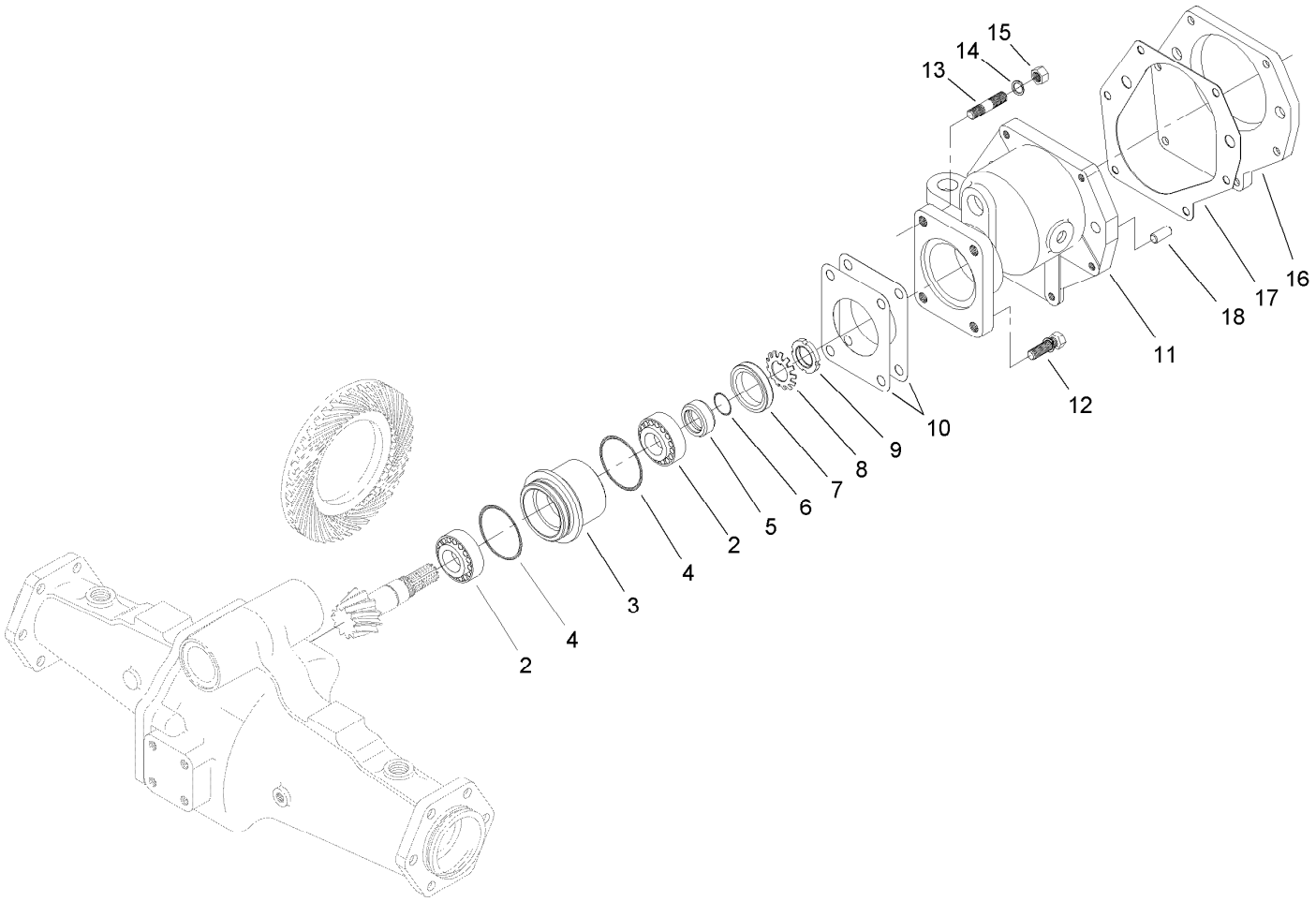


Rear Axle Assembly

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	Cylinder-Steering, HYD
3	340-97	2	Fitting-HYD, 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-Straight
7:1	237-58	1	O-Ring
7:2	237-81	1	O-Ring
8	340-142	1	Fitting-HYD, 90 DEG
8:1	237-58	1	O-Ring
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

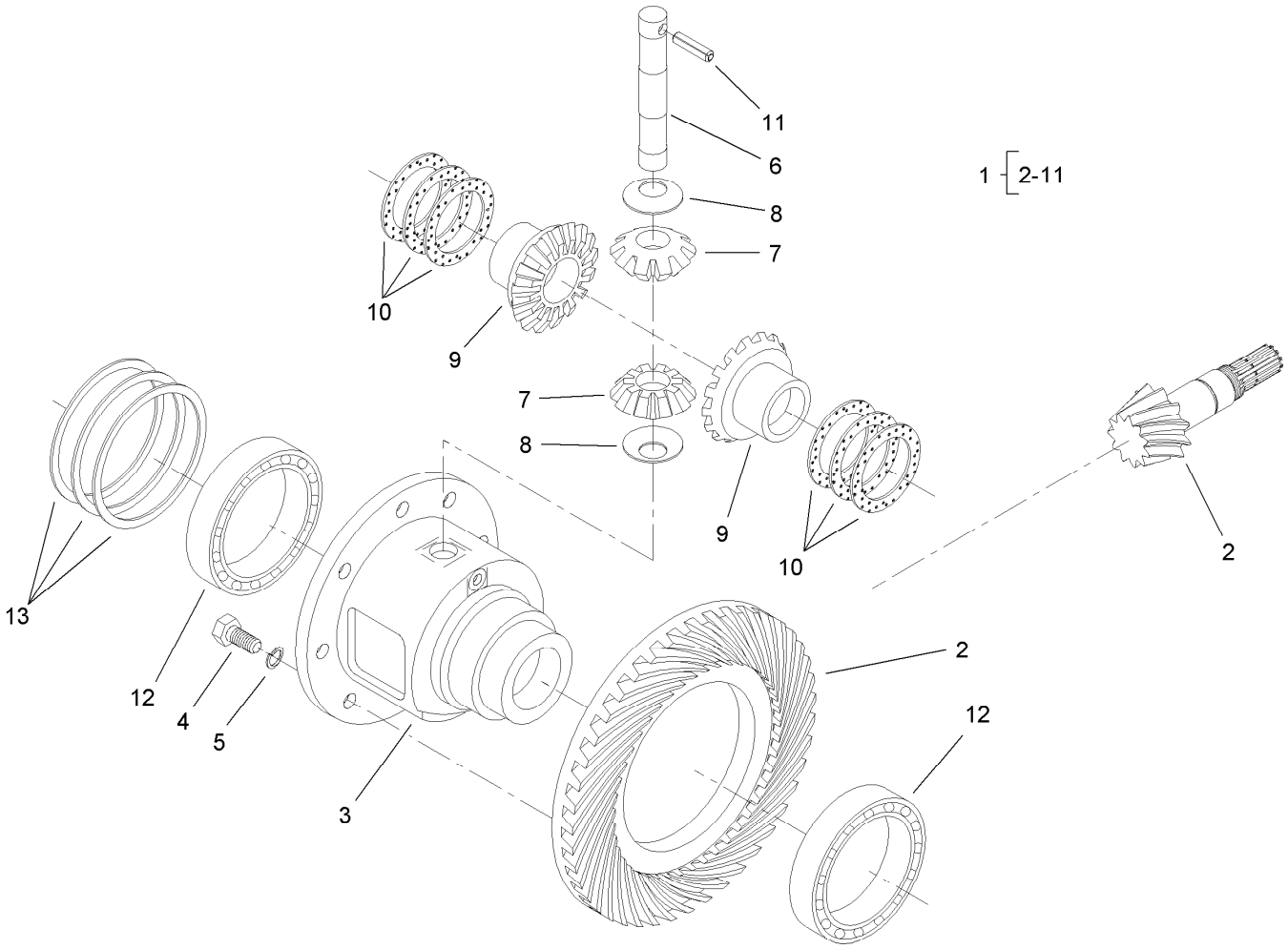
Ref.	Part Number	Qty.	Description
15	340-2	1	Fitting-HYD, Straight
15:1	237-22	1	O-Ring
15:2	237-42	1	O-Ring
17	93-5268	10	Nut-Lug
18		2	Tire And Wheel ASM ●
18:1	232-27	1	Stem-Valve
18:2	104-0451	1	Tire-Turf, Trac
18:3	105-9219	1	Wheel
20	3272-11	2	Pin-Cotter
21	32136-14	2	Nut-SHH
22	92-5836	1	Washer
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
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



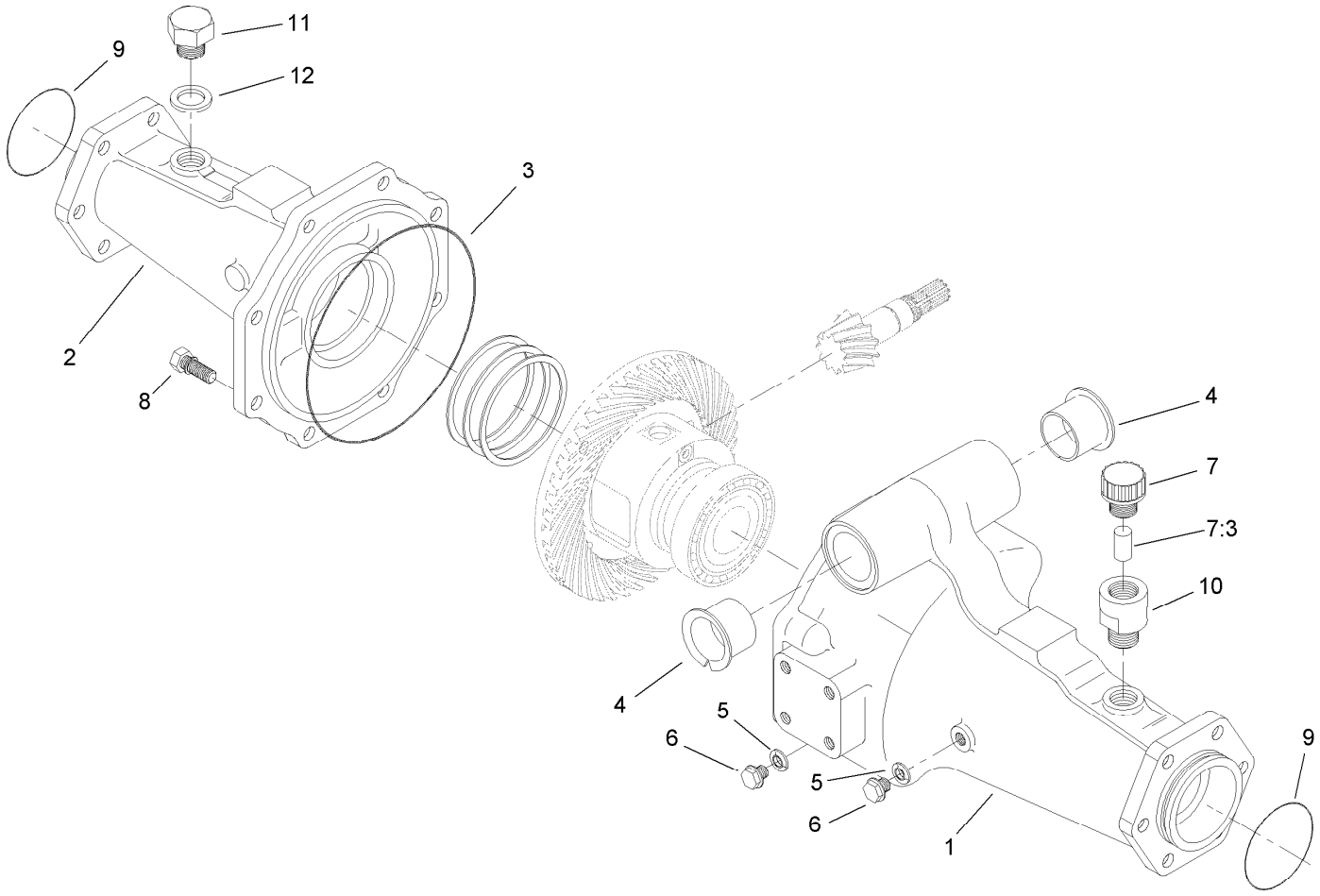
Bevel Pinion Shaft Assembly
Rear Axle Assembly No. 110-4750

Ref.	*Part Number*	*Qty.*	*Description*
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
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



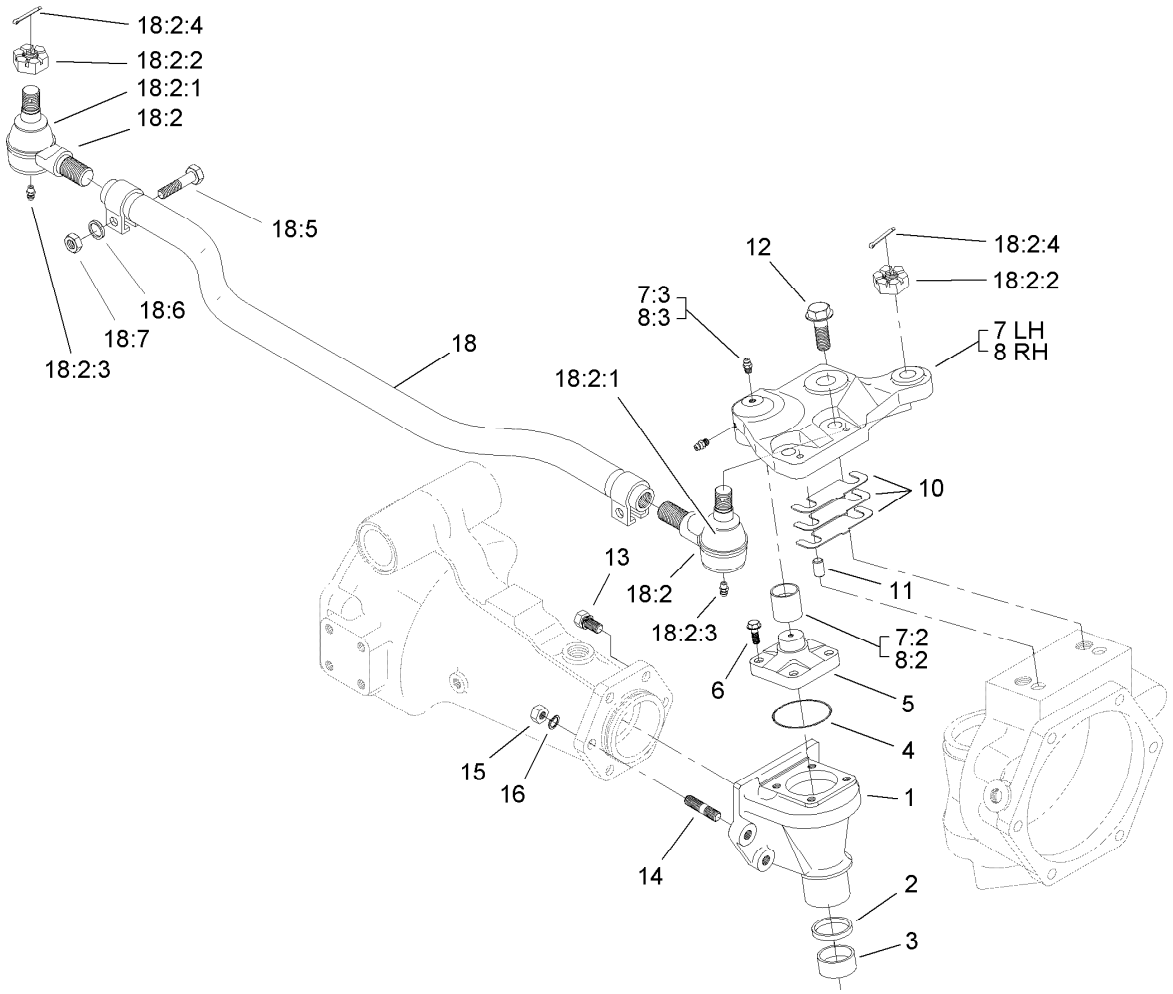
Differential Assembly
Rear Axle Assembly No. 110-4750

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

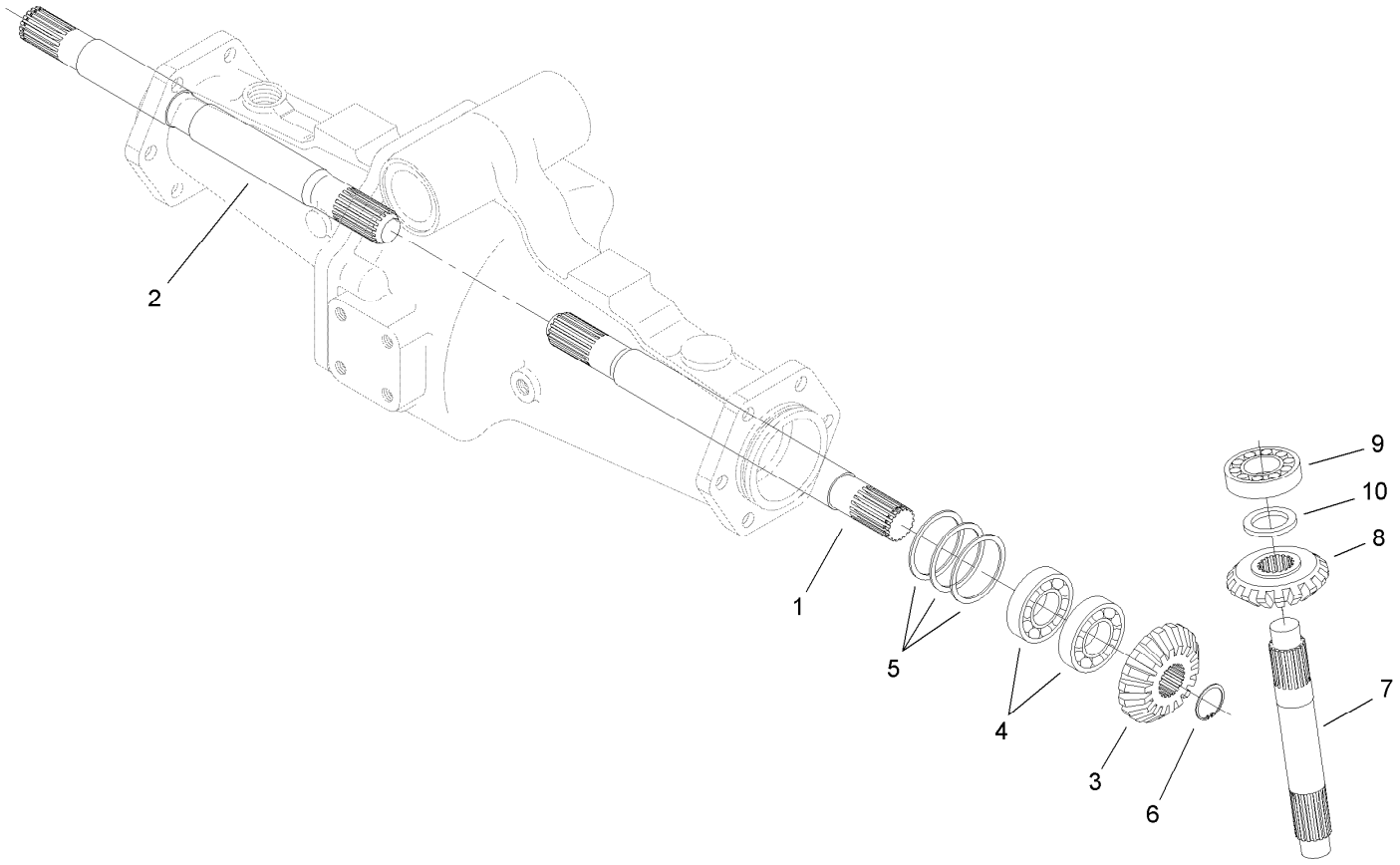
Ref.	*Part Number*	*Qty.*	*Description*
1	95-7508	1	Support-Axle
2	95-7506	1	Support-Axle
3	106-1067	1	O-Ring
4	95-7537	2	Bushing-Flanged
5	99-7590	2	Washer-Seal
6	99-7589	2	Plug
7	110-4812	1	Axle Vent ASM
7:3	110-4815	1	Insert-Filter, Foam
8	99-7592	8	Bolt
9	106-1068	2	O-Ring
10	104-2377	1	Extension-Vent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



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

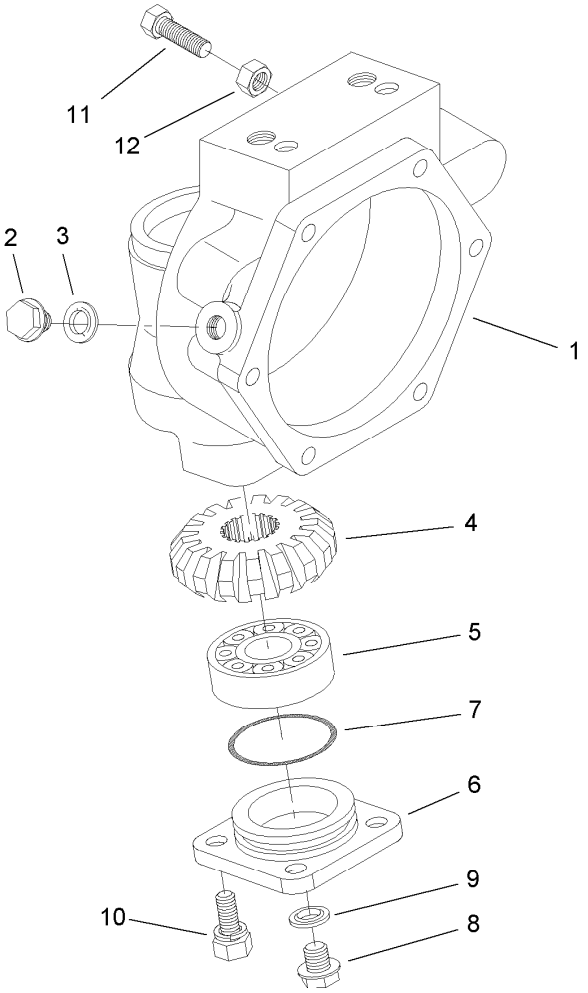
Ref.	*Part Number*	*Qty.*	*Description*
1	110-4752	2	Case-Gear, Bevel
2	110-4754	2	Seal-Oil
3	104-2378	2	Bushing
4	106-1069	2	O-Ring
5	104-2373	2	Knuckle
6	104-2374	8	Bolt
7	100-3768	1	LH Steering Arm ASM
7:2	104-8634	1	Bushing
7:3	106-1104	2	Fitting-Grease
8	100-3766	1	RH Steering Arm ASM
8:2	104-8634	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 Thread
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



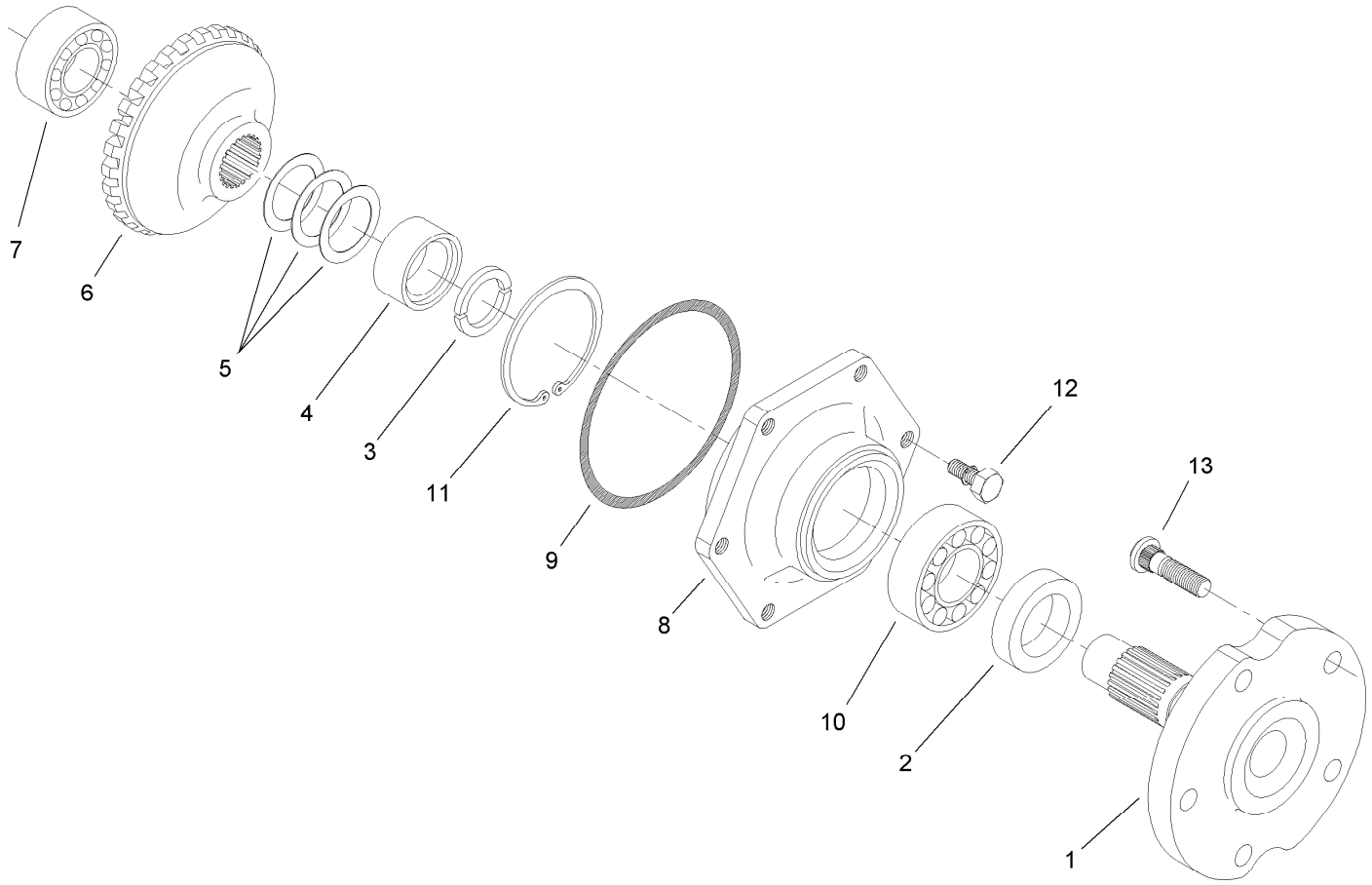
Bevel Gear Shaft Assembly
Rear Axle Assembly No. 110-4750

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



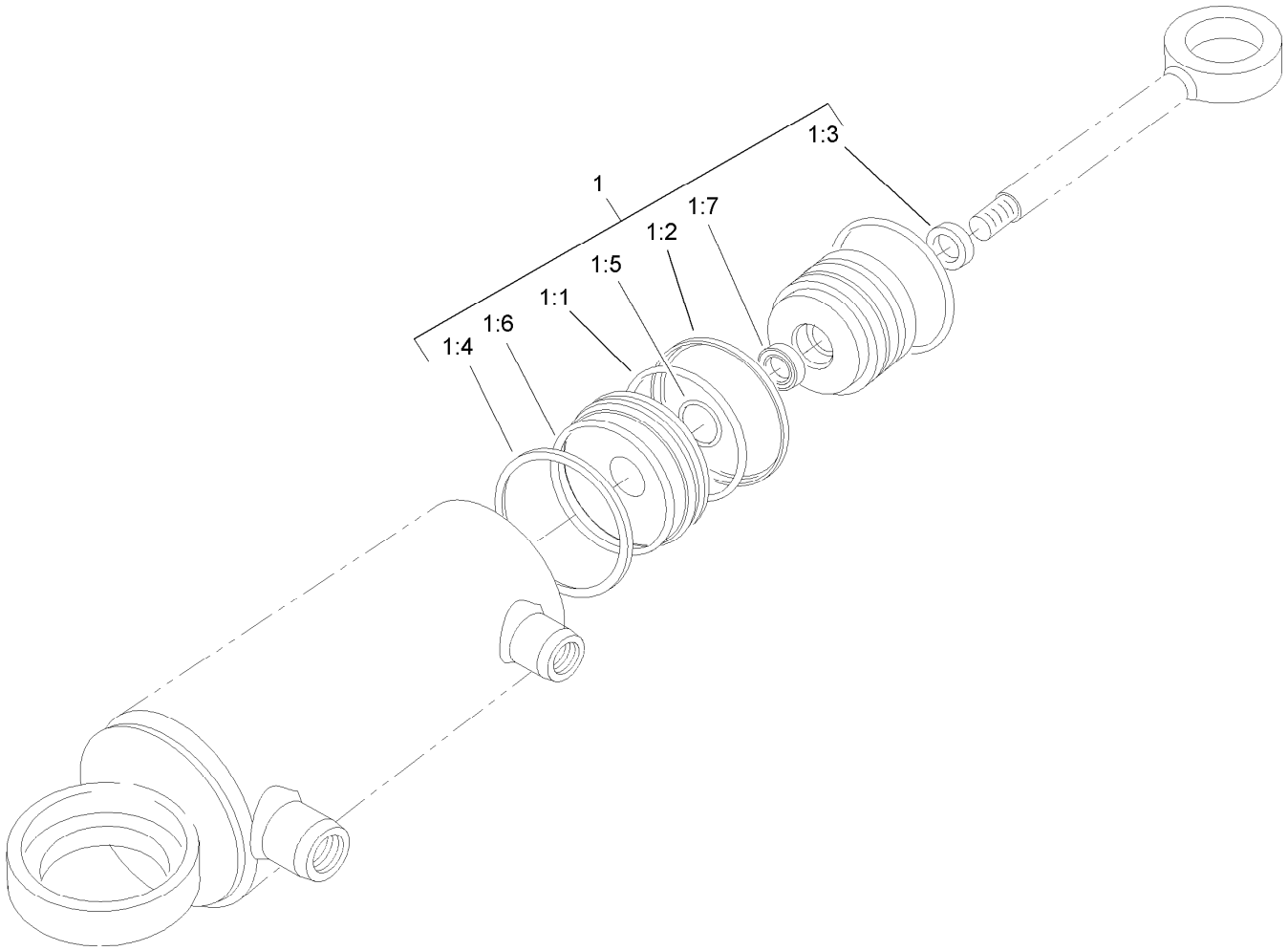
Axle Case Assembly
Rear Axle Assembly No. 110-4750

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

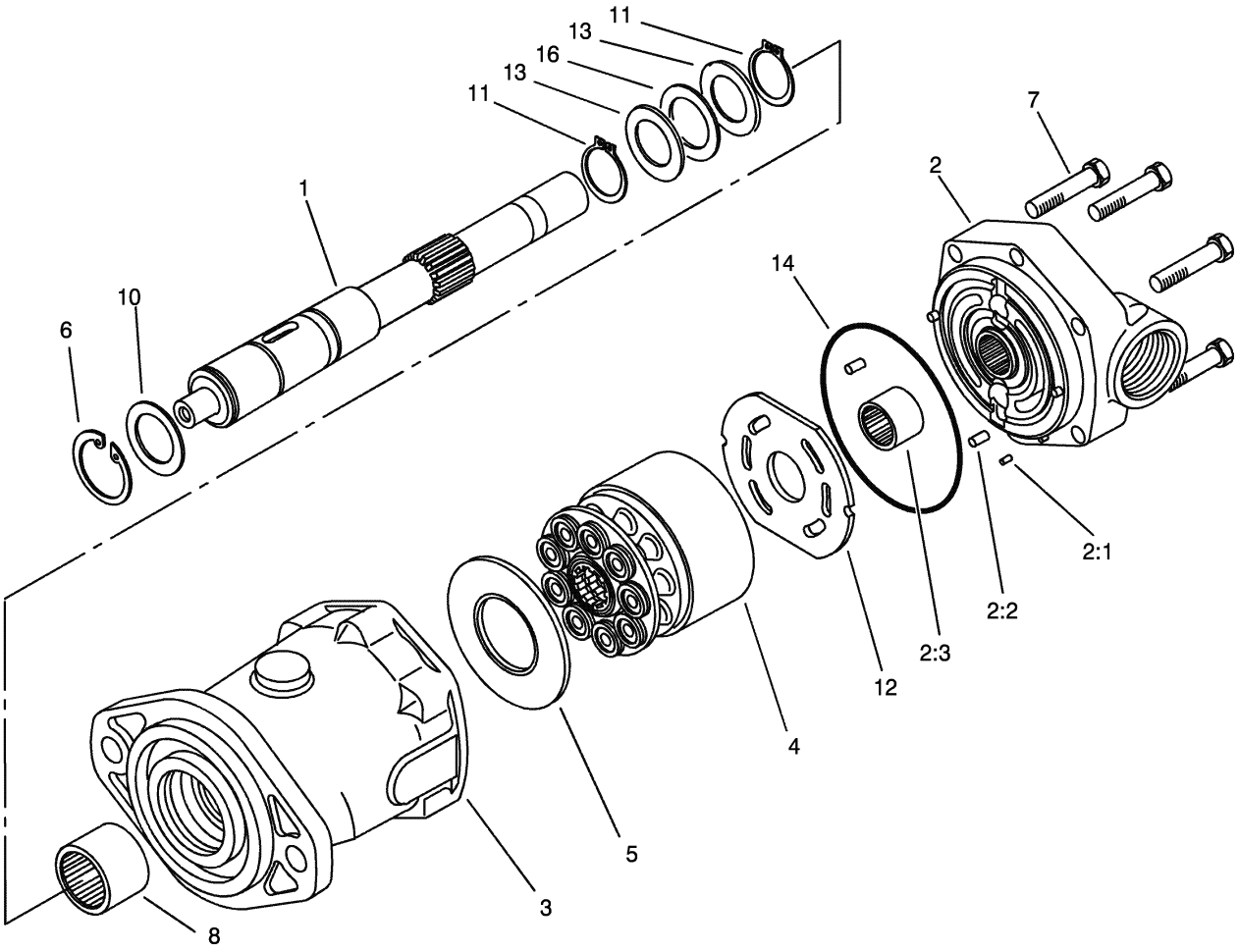
Ref.	*Part Number*	*Qty.*	*Description*
1	95-7522	2	Axle
2	99-7564	2	Seal-Oil
3	95-7544	4	Clip
4	95-7523	2	Spacer
5	99-7555	2	Shim 0.3
5	99-7556	2	Shim 0.2
5	99-7557	2	Shim 0.5
6	95-7524	2	Gear-Bevel, 29 Tooth
7	99-7534	2	Bearing-Ball
8	95-7521	2	Cover-Axle
9	106-1071	2	O-Ring
10	99-7561	2	Bearing-Ball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



Hydraulic Cylinder Assembly No. 105-9861

Ref.	*Part Number*	*Qty.*	*Description*
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 ●

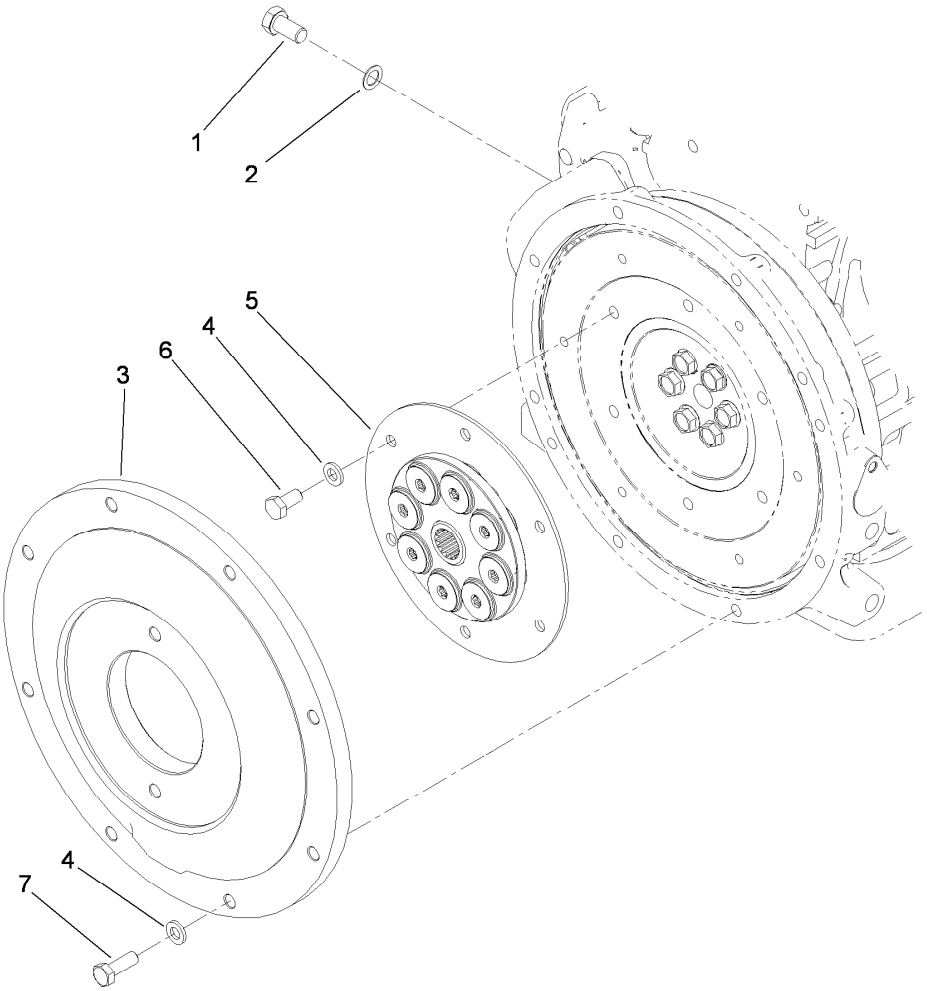
● Not serviced separately



Piston Motor Assembly No. 105-1219

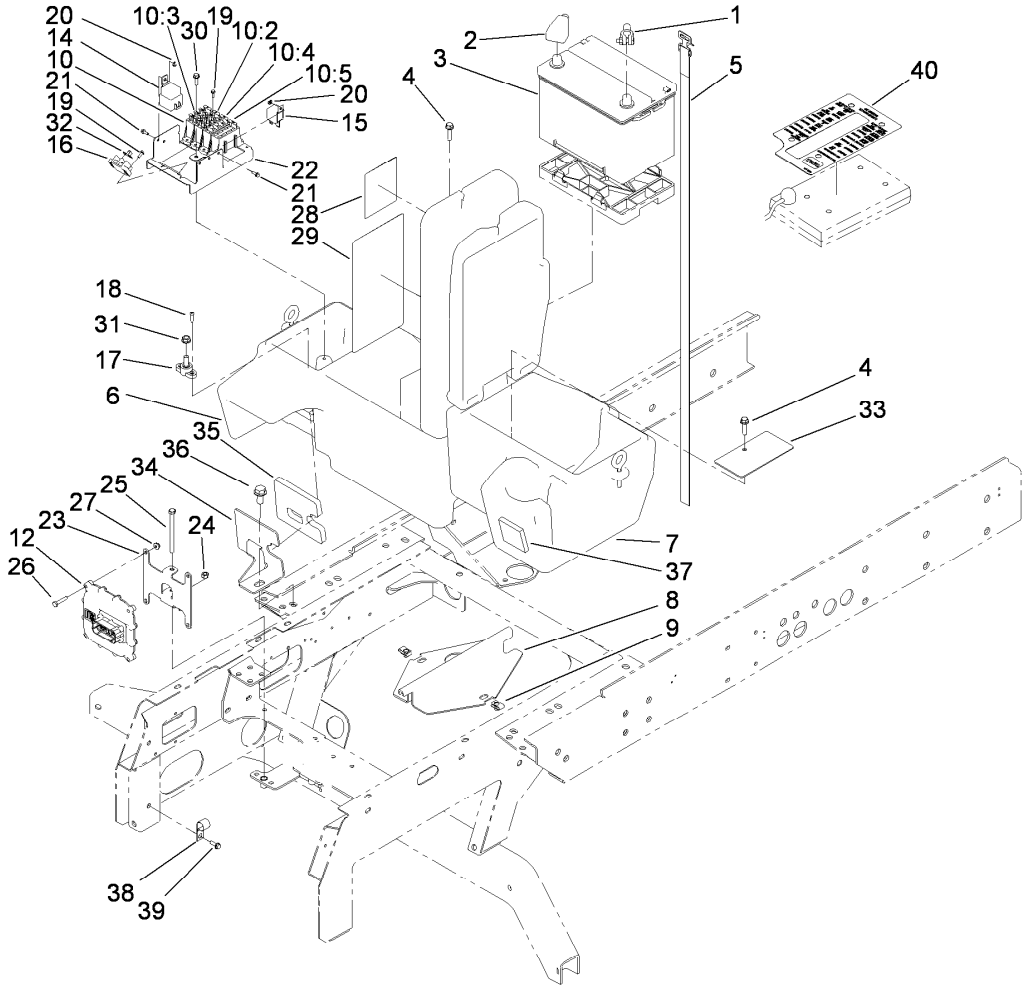
Ref.	*Part Number*	*Qty.*	*Description*
1	105-2853	1	Shaft-Drive
2	100-2551	1	Backplate
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring
7	94-3002	6	Capscrew
8	63-4390	1	Bearing-Needle
10	76-7020	1	Spacer
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

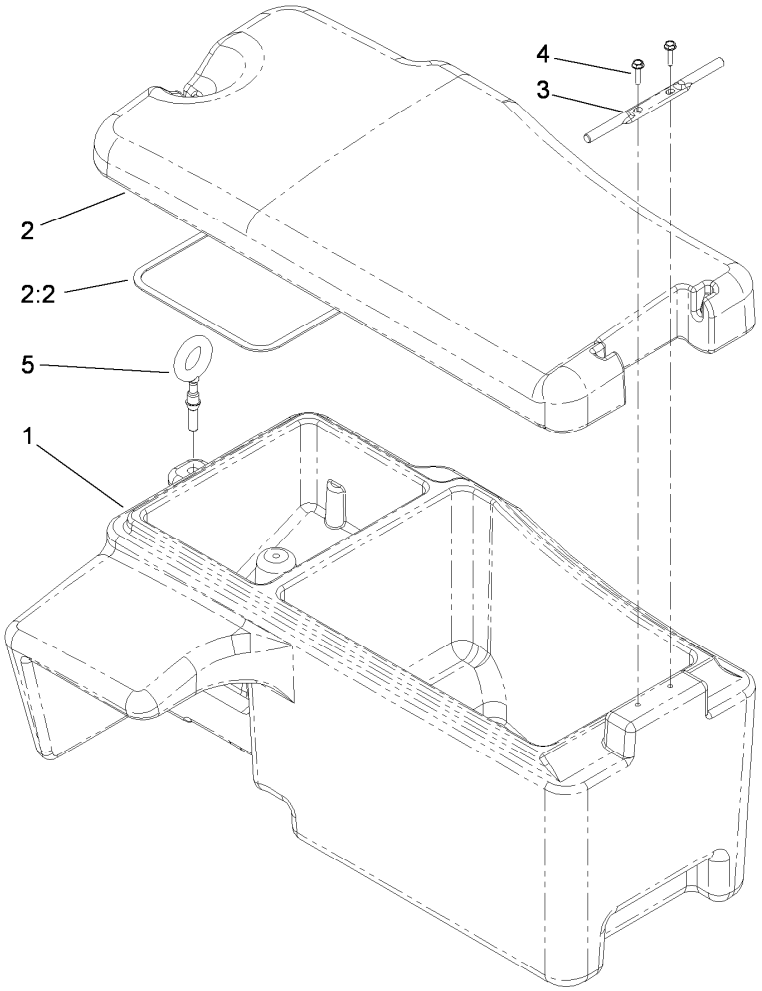
Ref.	*Part Number*	*Qty.*	*Description*
1	42-9250	1	Bolt
2	3255-2	1	Washer-Lock / EXT
3	114-3835	1	Plate-Flywheel
4	107-1413	14	Washer-Hardened
5	114-3848	1	Coupler-Spring, Flywheel
6	99-5130	6	Bolt
7	117-5663	8	Screw-HH



Power Center, Battery and Storage Box Assembly

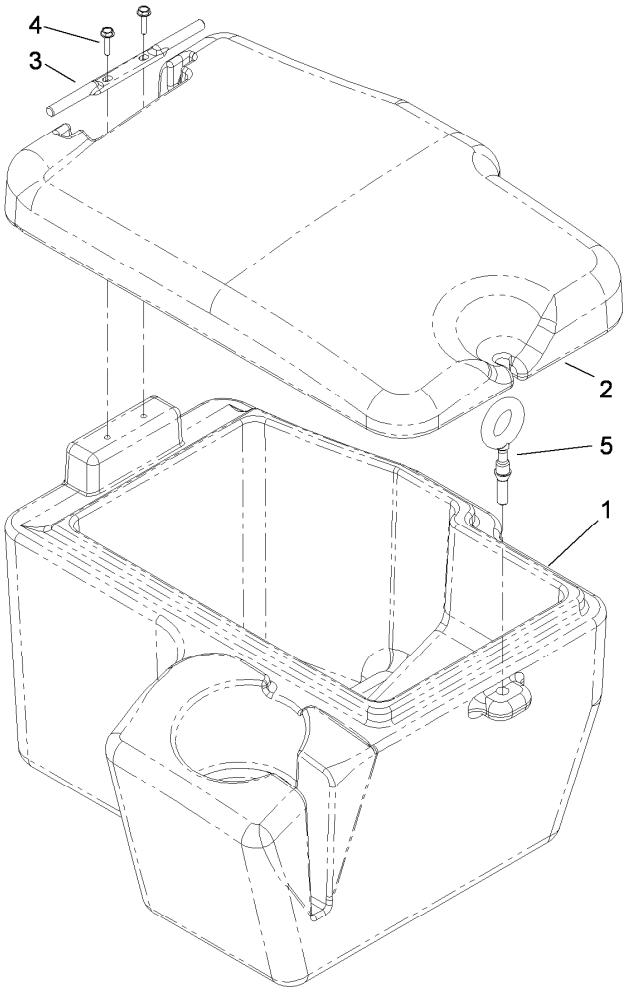
Ref.	Part Number	Qty.	Description
1	117-2377	1	Cable-Battery, Negative
2	117-2376	1	Cable-Battery, Positive
3	106-5190	1	Battery
4	115-1794	2	Screw-HHF
5	3339-175	1	Strapping-Web, 48 Inch
6	115-9100	1	Battery Storage Box ASM
7	115-9101	1	Storage Box ASM
8	115-4387-03	1	Support-Box, Storage
9	112-3306	2	Nut
10	115-9106	1	Harness-Power Center
10:2	94-6710	2	Fuse-2 Amp
10:3	114241	6	Fuse-Blade, 7.5 Amp
10:4	218-578	4	Fuse-Blade, 10 Amp
10:5	109101	1	Fuse-Blade, 20 Amp
12	114-3321	1	Controller-Tec
14	99-7430	1	Relay
15	99-7435	3	Relay-Power
16	42862	1	Block-Terminal, Ground
17	110-8822	1	Block-Junction
18	93-0231	2	Screw-PPH
19	32144-87	6	Screw-HWHTF

Ref.	Part Number	Qty.	Description
20	3296-54	5	Nut-Lock
21	112-3169	5	Screw-HHF, Serrated
22	115-4356-03	1	Mount-Fuse Block
23	117-2360-03	1	Bracket-Mount, Controller
24	3217-6	1	Nut-Hex
25	322-19	1	Screw-HH
26	321-8	4	Screw-HH
27	104-7201	4	Nut-HF
28	117-4761	1	Decal-Fuse
29	117-4758	1	Decal-Service
30	46-8091	1	Screw-HWH
31	3290-357	1	Nut-HHF, Whiz
32	42863	1	Strip-Jumper
33	117-4768-03	1	Plate-Box, Storage
34	117-4774-03	1	Clamp
35	117-4775	1	Seal-Battery Box
36	3234-6	1	Screw-HHF
37	117-4783	2	Seal-Foam
38	2412-150	1	Clip-J
39	3234-4	1	Screw-HHF
40	117-4795	1	Decal-Diagnostic, Controller



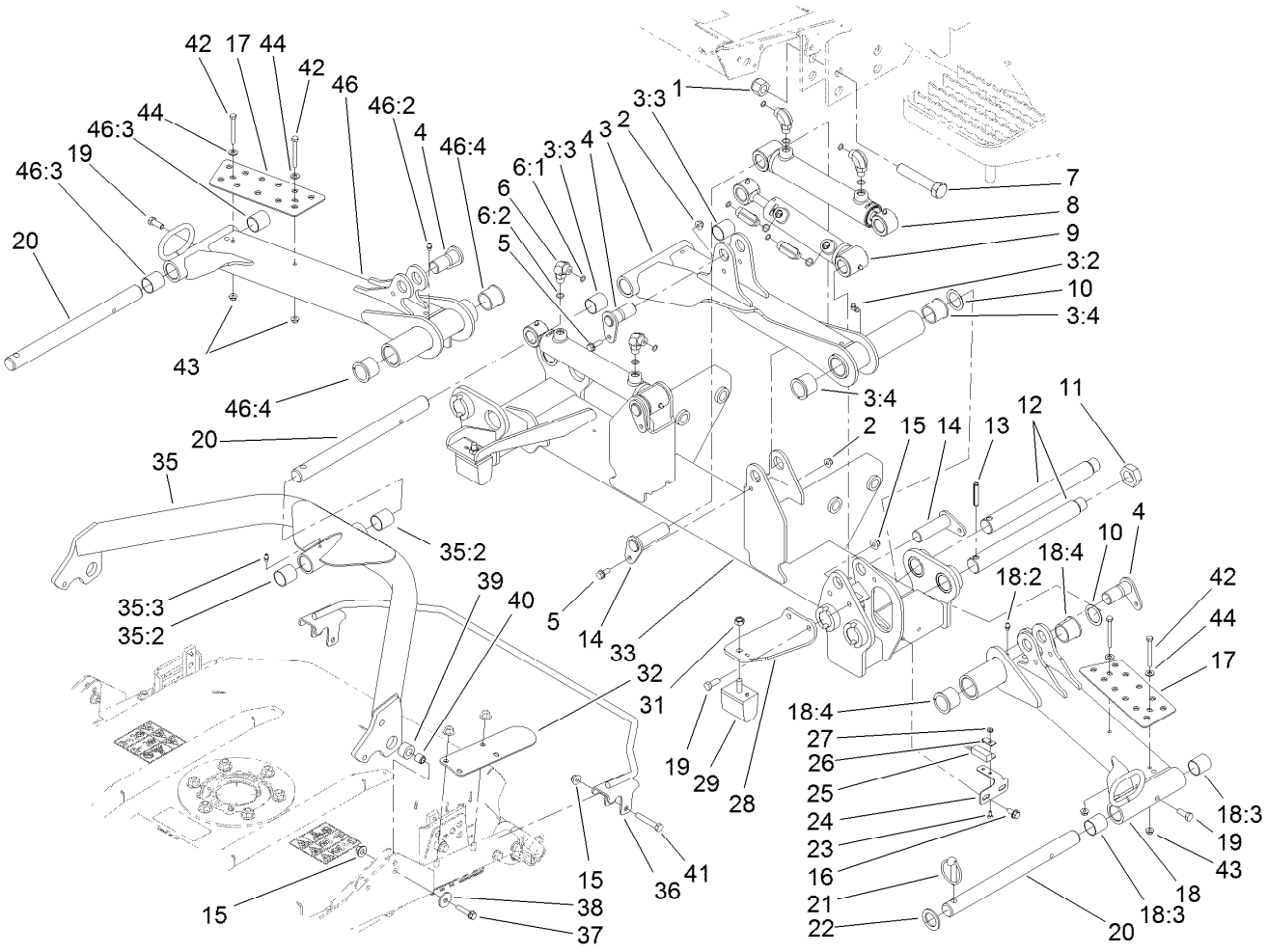
Battery Storage Box Assembly No. 115-9100

Ref.	*Part Number*	*Qty.*	*Description*
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

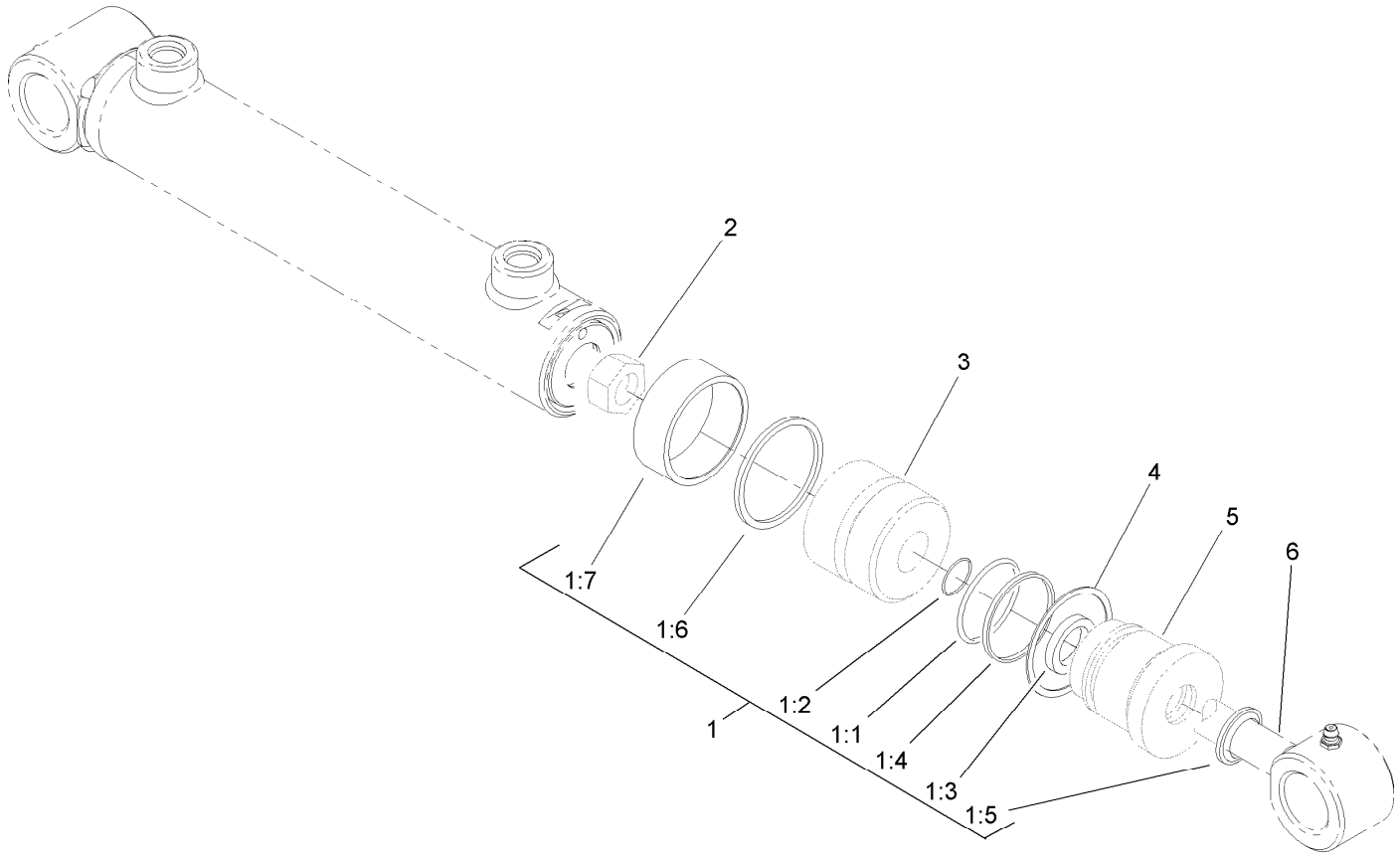
Ref.	*Part Number*	*Qty.*	*Description*
1	114-8123	1	Box-Storage, LH
2	114-8125	1	Cover-Storage Box, LH
3	114-8132	1	Hinge-Cover
4	98-1375	2	Screw-HWH
5	115-4366	1	Latch-Rubber



Front Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	3296-51	4	Nut-Lock, NI
2	104-8300	6	Nut-Flange, NI
3	108-4032	1	No. 1 Liftarm 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	Cylinder Pin ASM
5	3234-17	6	Screw-HHF
6	340-77	6	Fitting-HYD, 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	Cylinder Pin ASM
15	104-8301	20	Nut-Flange, NI
16	32104-32	4	Screw-HWH
17	105-3987-03	2	Plate-Skid
18	108-4033	1	No. 4 Liftarm 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

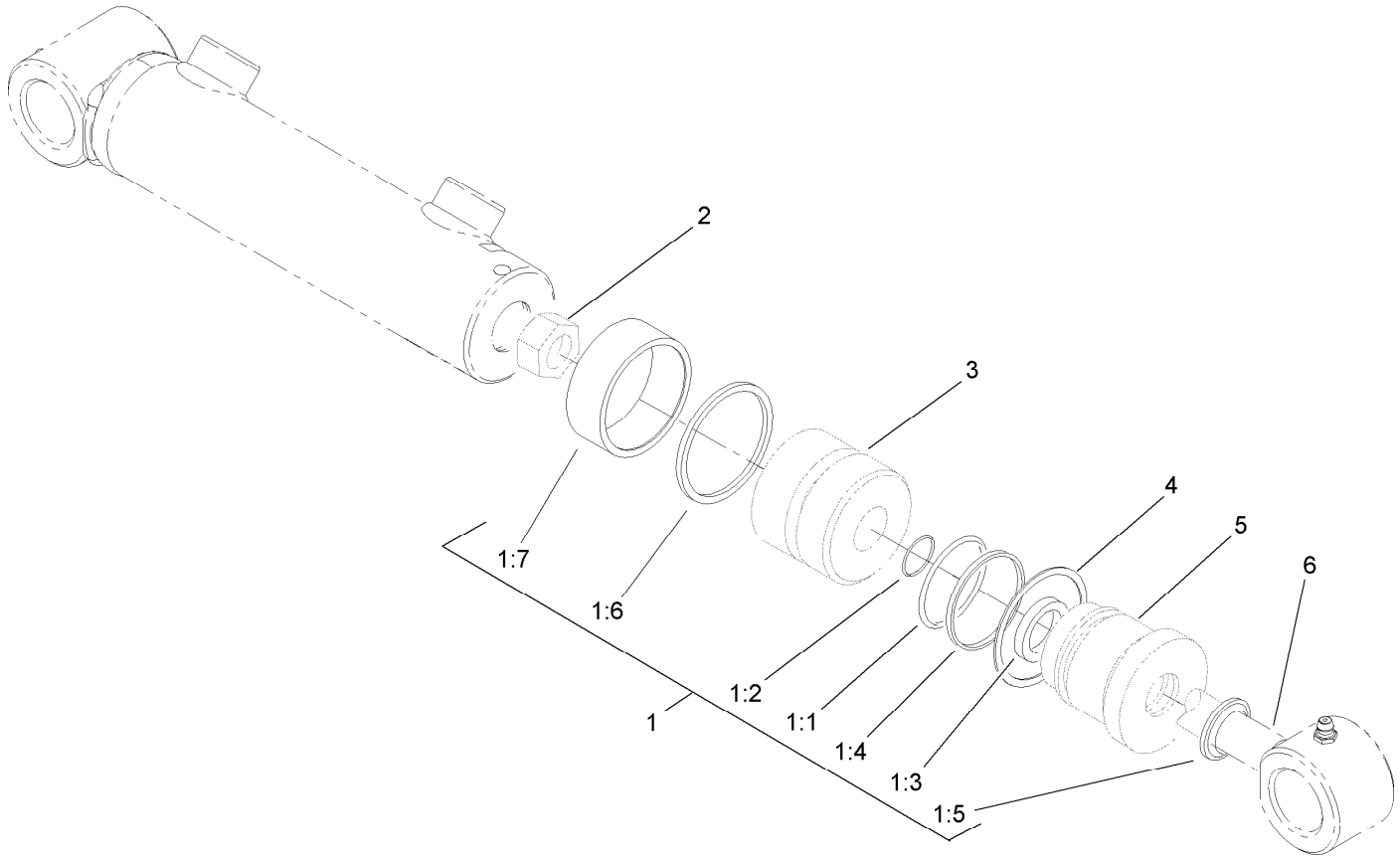
Ref.	Part Number	Qty.	Description
21	283-71	3	Pin-Lynch
22	3-6781	3	Washer-Thrust
23	104-1450	2	Bolt-CARR
24	104-5585	2	Bracket-Switch
25	106-9288	2	Sensor-Proximity, Ferrous
26	100-4872	2	Plate-Switch, Neutral
27	32149-7	2	Nut-Keps
28	104-5689-03	1	Bracket-Support, Bumper
29	87-3470	2	Bumper-Axle, Rear
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
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
42	321-15	4	Screw-HH
43	32128-33	4	Nut-HF
44	3256-23	4	Washer-Flat
46	108-4034	1	No. 5 Liftarm 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. 107-1979

Ref.	*Part Number*	*Qty.*	*Description*
1	107-1977	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal W/O-Ring ●
1:7		1	Ring-Wear ●
2		1	Locknut ●
3		1	Piston ●
4		1	Ring-Retaining ●
5		1	Head ●
6		1	Rod ASM ●

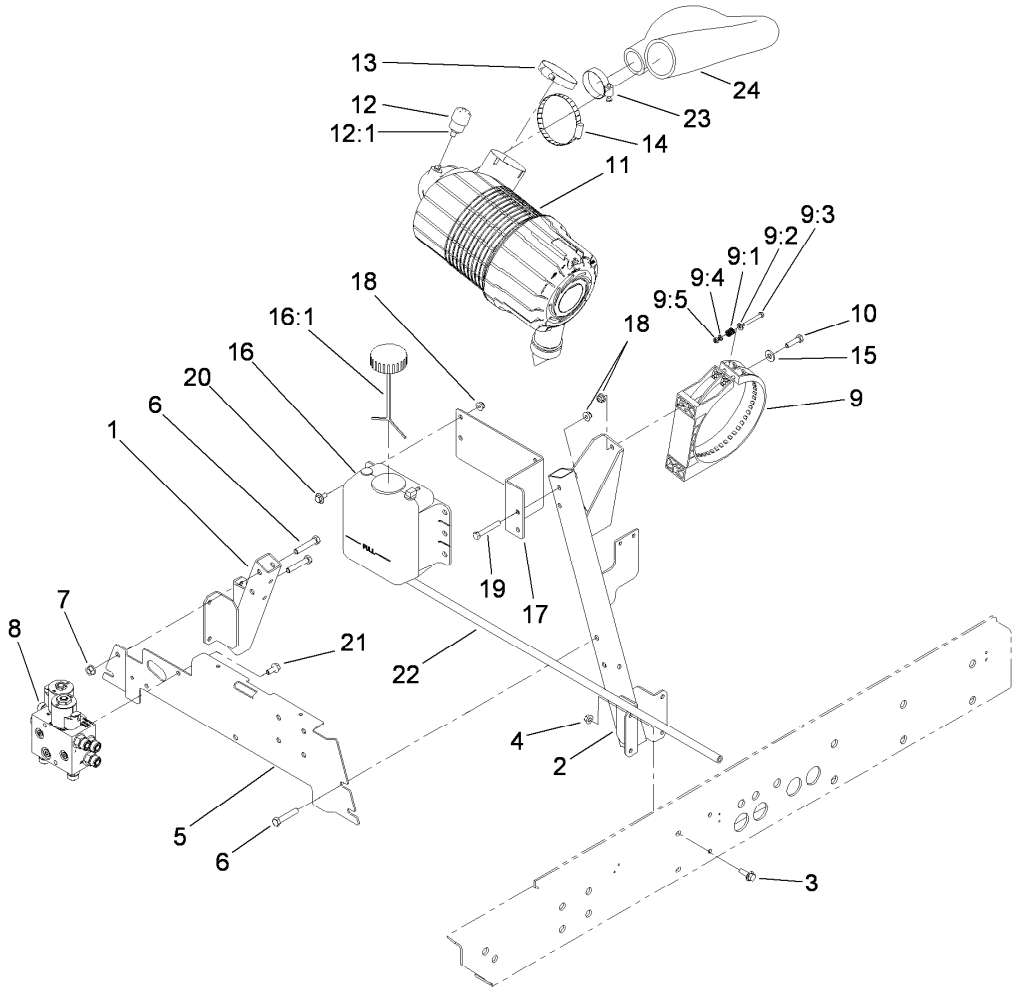
● Not serviced separately



Hydraulic Cylinder Assembly No. 107-1980

Ref.	*Part Number*	*Qty.*	*Description*
1	107-1977	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal W/O-Ring ●
1:7		1	Ring-Wear ●
2		1	Locknut ●
3		1	Piston ●
4		1	Ring-Retaining ●
5		1	Head ●
6		1	Rod ASM ●

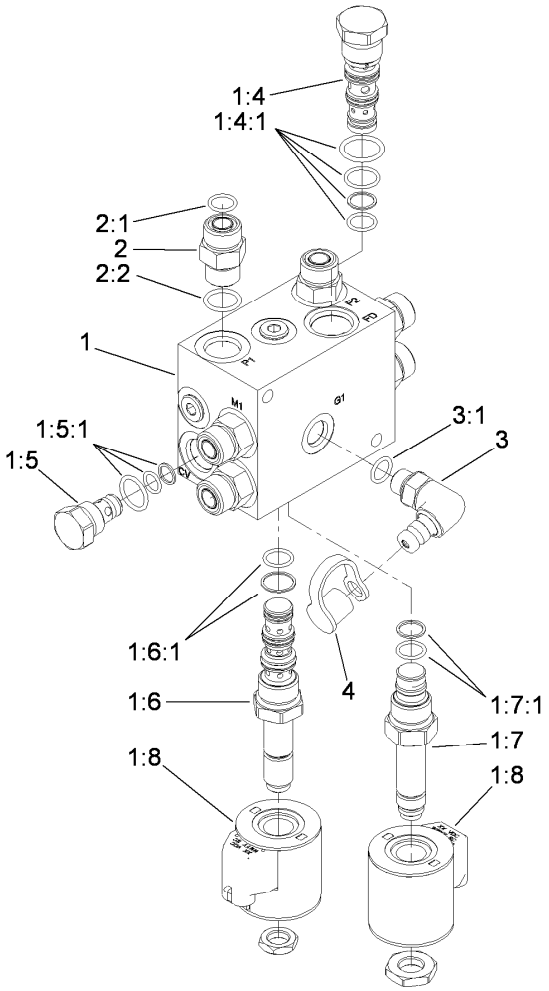
● Not serviced separately



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	Cleaner-Air

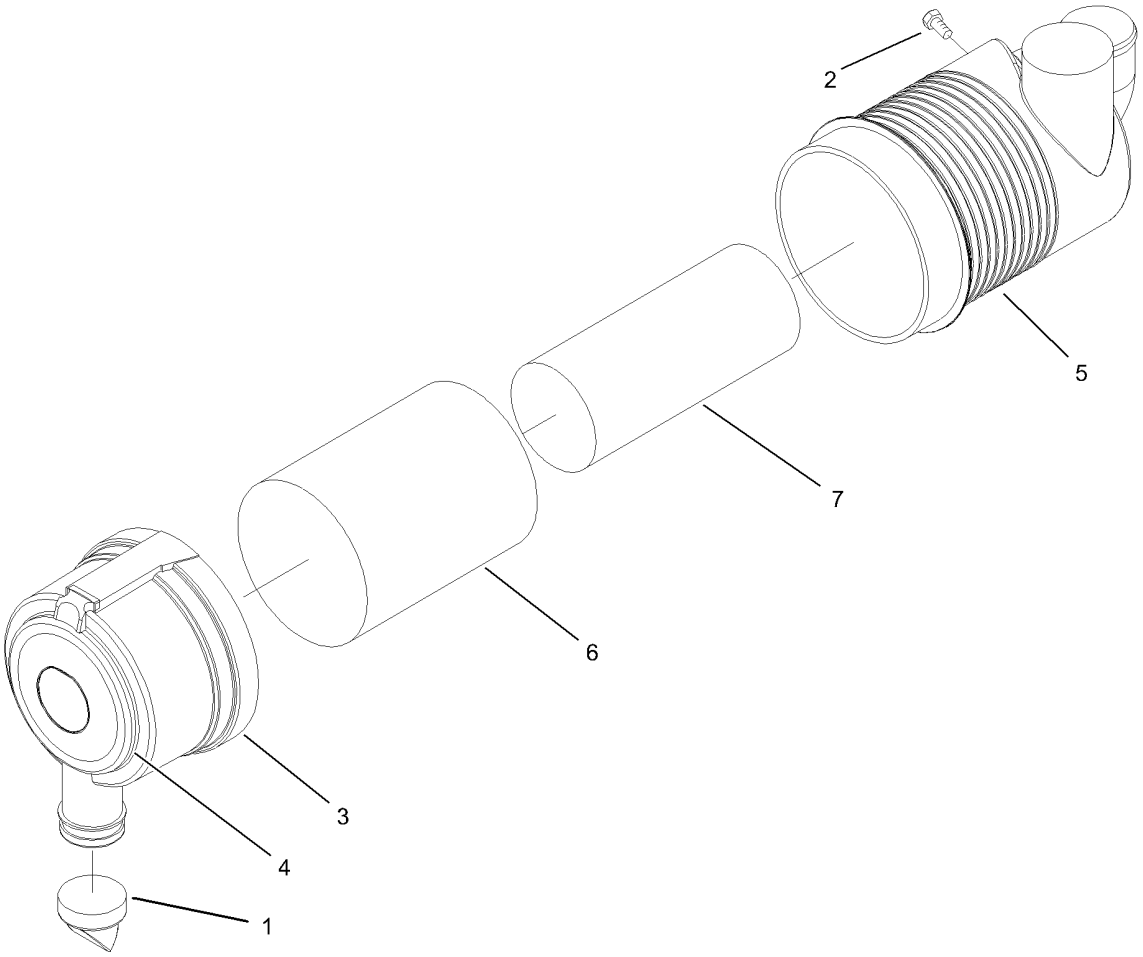
Ref.	Part Number	Qty.	Description
12	104-3563	1	Indicator
12:1	94-1416	1	Indicator Adapter ASM
13	2412-125	1	Clamp-Hose
14	2412-110	1	Clamp-Hose
15	3256-3	2	Washer-Flat
16	104-2276	1	Reservoir-Coolant
16:1	87-7050	1	Cap-Reservoir
17	114-4187-03	1	Bracket-Tank
18	104-8300	8	Nut-Flange, NI
19	322-11	2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



Fan Drive Manifold Assembly No. 117-2395

Ref.	*Part Number*	*Qty.*	*Description*
1		1	Manifold-Fan Drive ●
1:4	115-3024	1	Flow Divider
1:4:1	115-3025	1	Seal Kit
1:5	105-9321	1	Valve-Check
1:5:1	105-9156	1	Seal Kit
1:6	115-3023	1	Valve-Solenoid
1:6:1	110-8908	1	Seal Kit
1:7	115-3022	1	Relief-Proportional
1:7:1	110-6316	1	Seal Kit
1:8	110-6344	2	Coil-12V, Dc
2	340-4	7	Fitting-HYD, 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

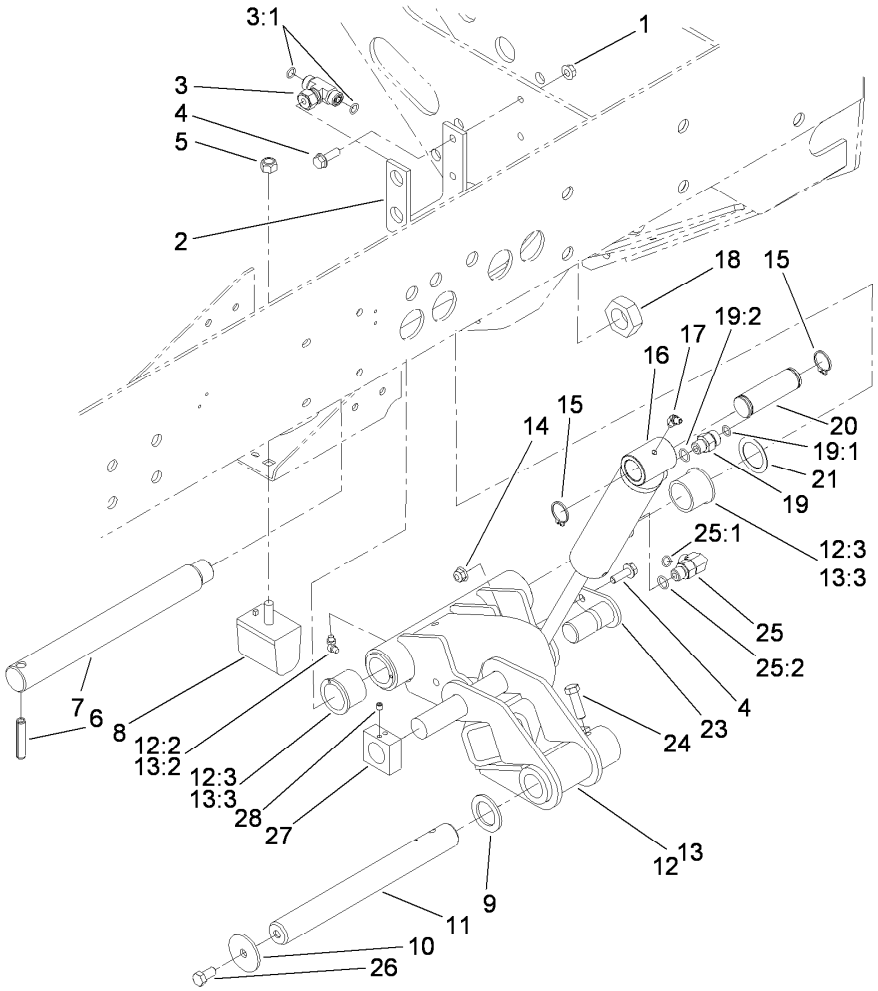
● Not serviced separately



Air Cleaner Assembly No. 99-5410

Ref.	*Part Number*	*Qty.*	*Description*
1	104-4258	1	Valve-Vacuator
2		1	Plug-Pipe ●
3	104-4259	1	Cover ASM
4		1	Marking ●
5		1	Body ASM ●
6	108-3814	1	Filter-Air
7	108-3816	1	Filter-Air

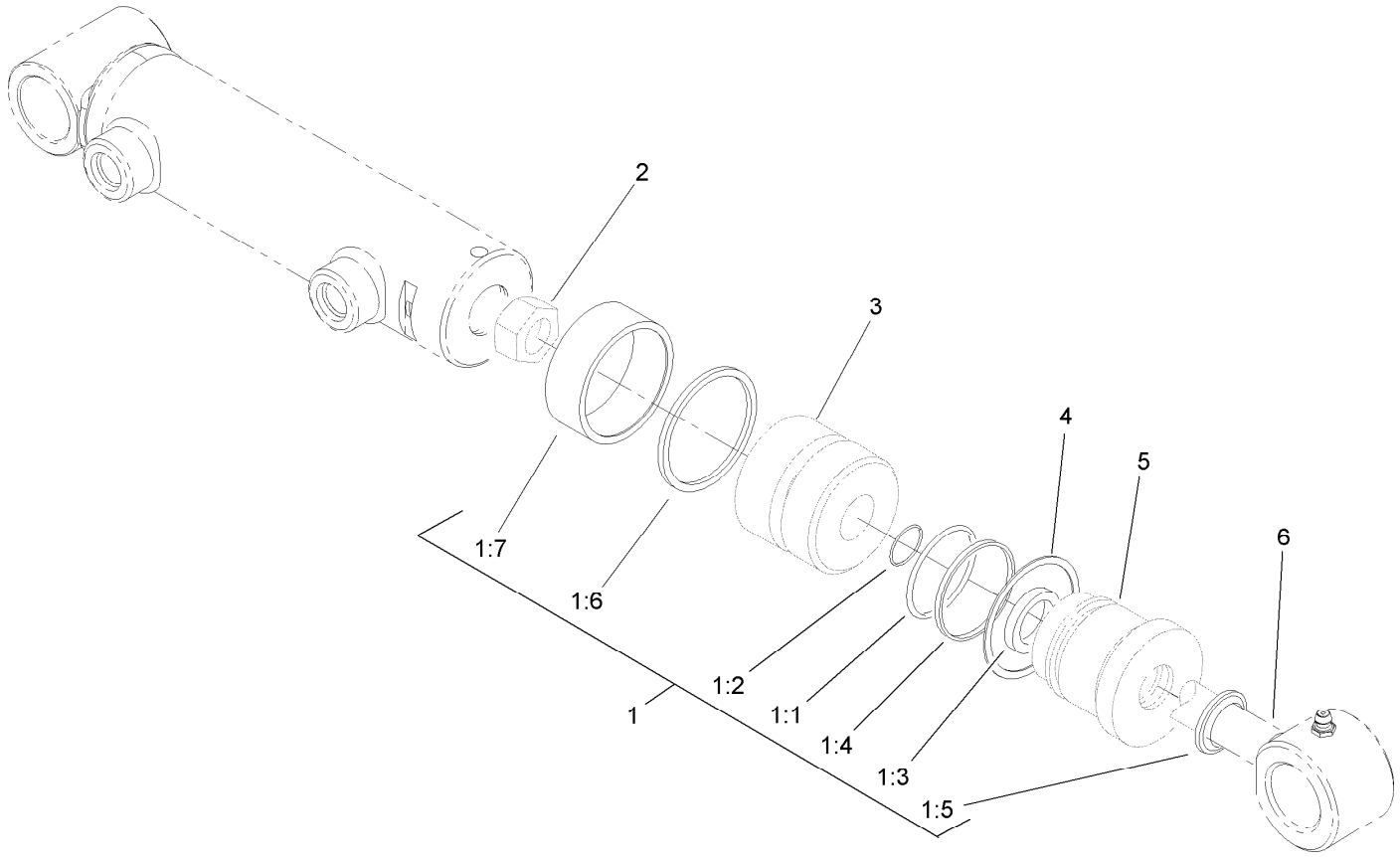
● Not serviced separately



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, HYD
3:1	237-22	2	O-Ring
4	3234-17	4	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-Axle, Rear
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

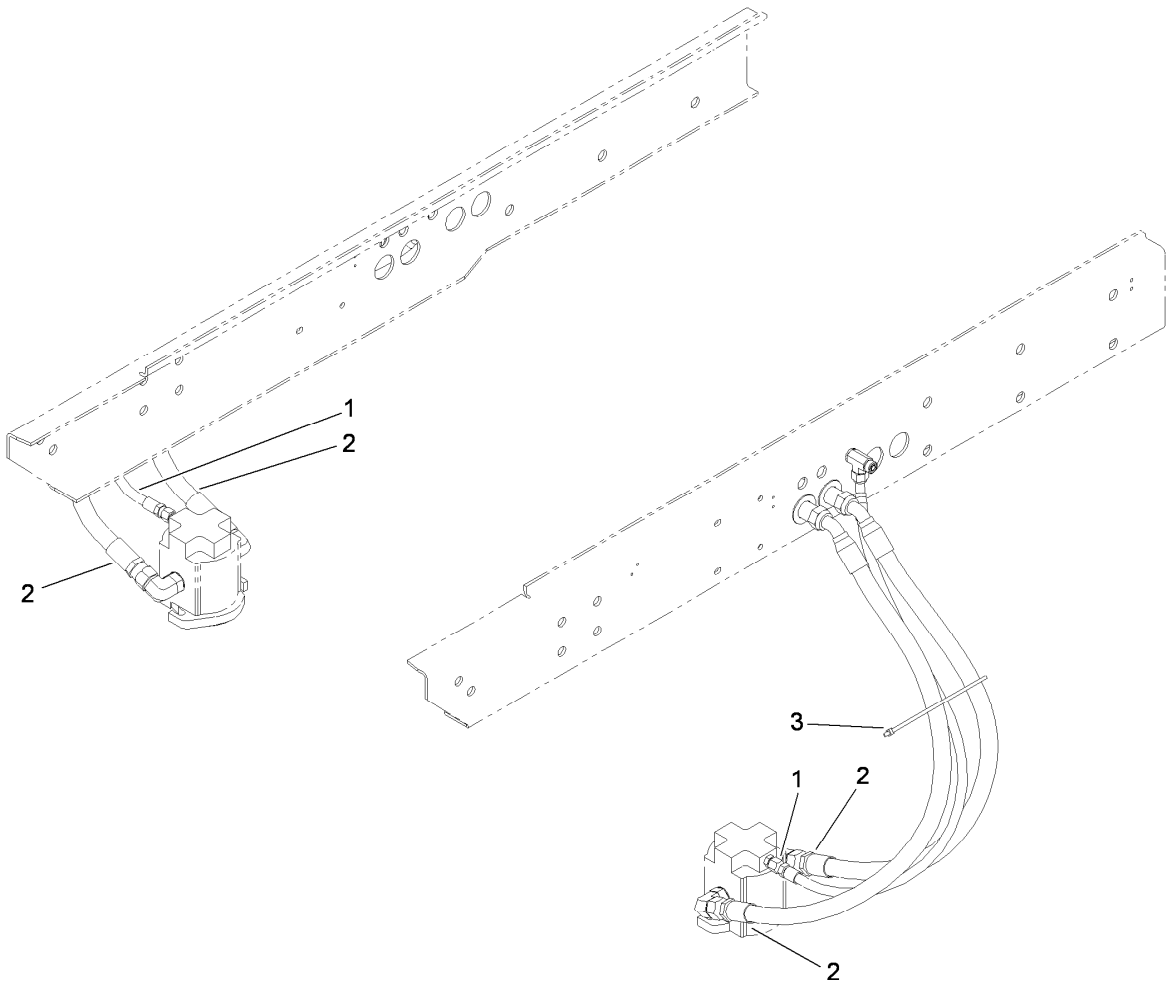
Ref.	Part Number	Qty.	Description
14	104-8300	2	Nut-Flange, NI
15	32151-36	4	Ring-Retaining
16	107-1978	2	Cylinder-Lift
17	302-11	2	Fitting-Lube, 45 DEG
18	3296-49	2	Nut-Lock, NI
19	340-2	2	Fitting-HYD, Straight
19:1	237-22	1	O-Ring
19:2	237-42	1	O-Ring
20	92-7548	2	Pin-Cylinder
21	76-2980	2	Washer-Thrust
23	104-5525	2	Cylinder Pin ASM
24	323-7	2	Screw-HH
25	340-77	2	Fitting-HYD, 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	3245-32	4	Screw-HSH



Hydraulic Cylinder Assembly No. 107-1978

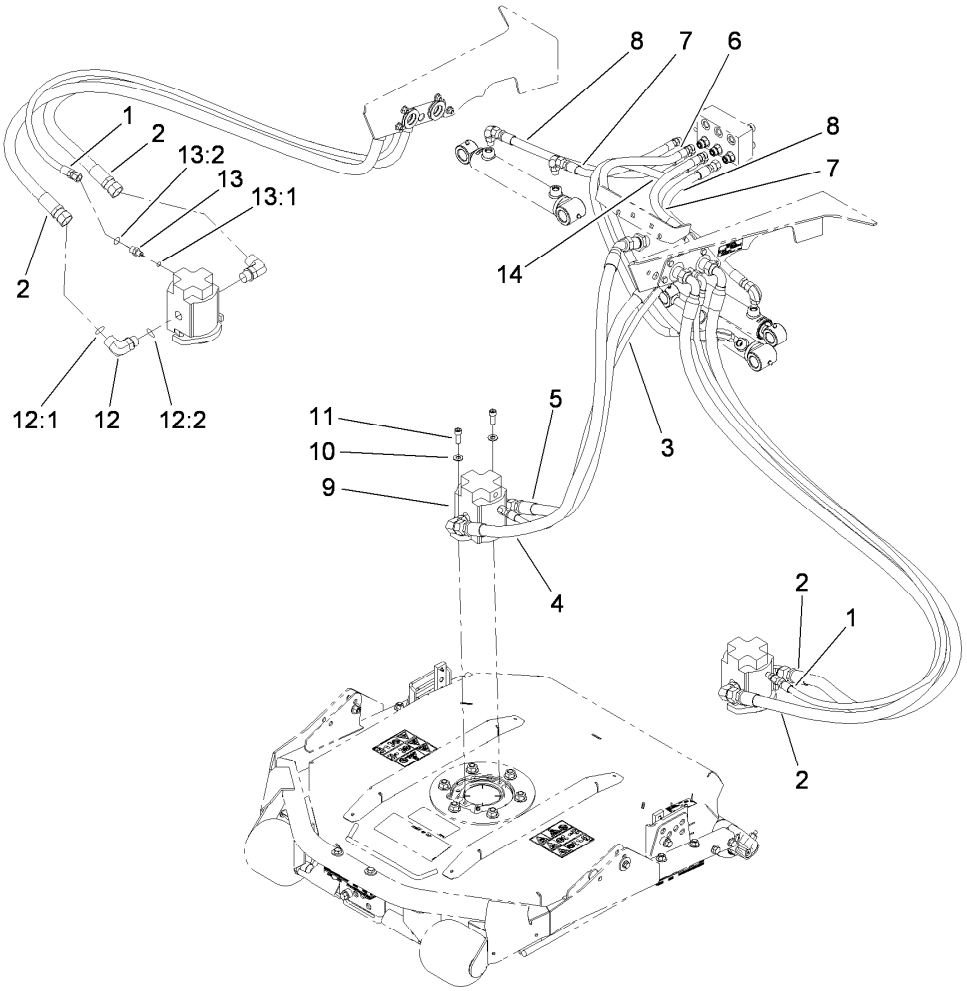
Ref.	*Part Number*	*Qty.*	*Description*
1	107-1977	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal W/O-Ring ●
1:7		1	Ring-Wear ●
2		1	Locknut ●
3		1	Piston ●
4		1	Ring-Retaining ●
5		1	Head ●
6		1	Rod ASM ●

● Not serviced separately



No. 2 and 3 Hose Installation Assembly

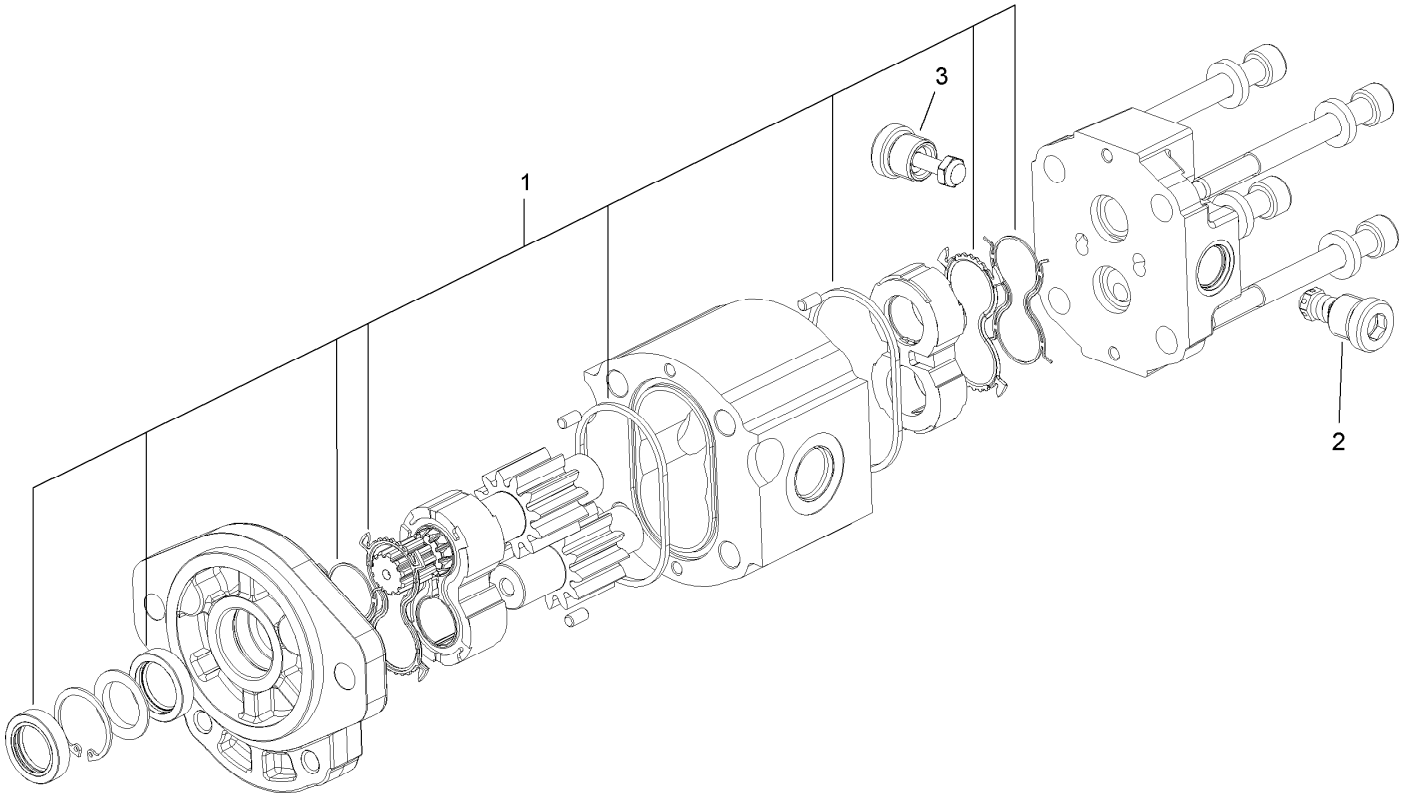
Ref.	*Part Number*	*Qty.*	*Description*
1	104-5502	2	Hose ASM
2	104-5505	4	Hose ASM
3	3290-379	2	Tie-Cable



No. 1, 4 and 5 Hose Installation Assembly

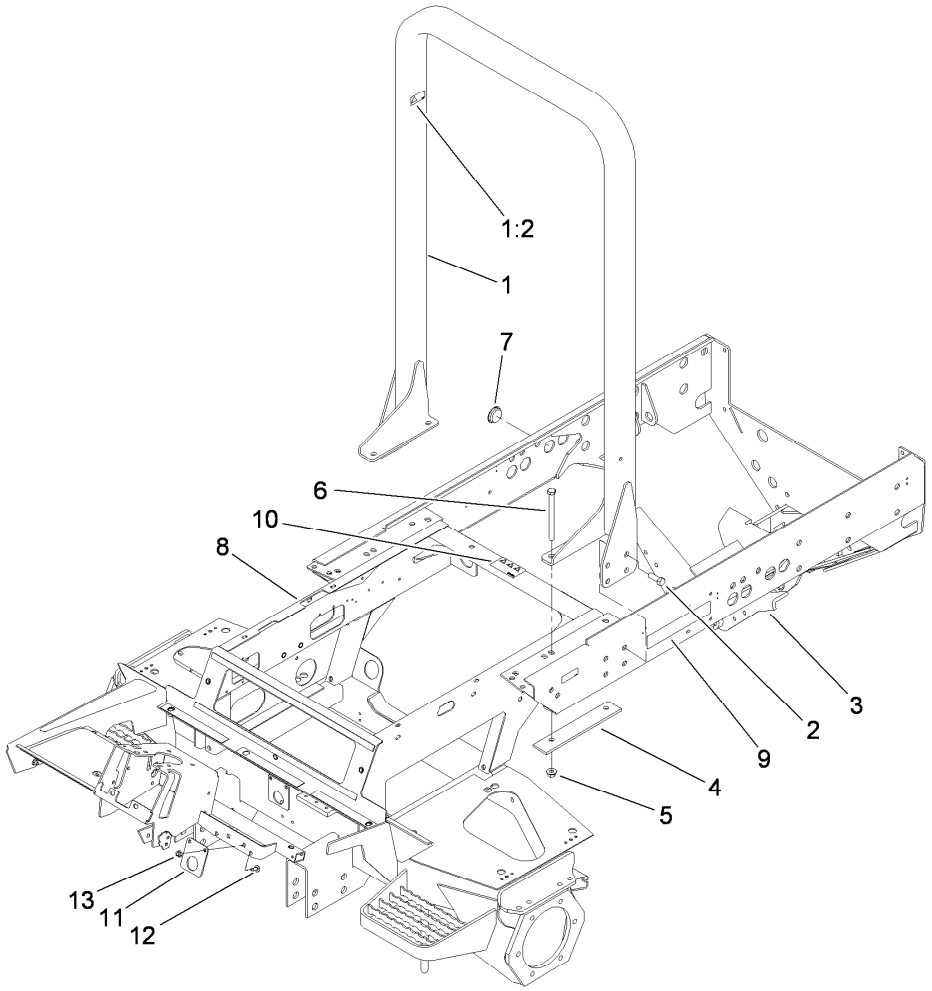
Ref.	*Part Number*	*Qty.*	*Description*
1	104-5500	2	Hose ASM
2	104-5501	4	Hose ASM
3	104-5502	1	Hose ASM
4	104-5504	1	Hose ASM
5	104-5505	1	Hose ASM
6	104-5511	1	Hose ASM
6:1	237-42	1	O-Ring ●
7	104-5512	2	Hose ASM
7:1	237-42	1	O-Ring ●
8	99-3579	2	Hose ASM
9	105-9872	5	HYD Motor ASM
10	3256-24	10	Washer-Flat
11	3274-7	10	Screw-HSH
12	340-17	10	Fitting-HYD, 90 DEG
12:1	237-65	1	O-Ring
12:2	237-80	1	O-Ring
13	340-92	5	Fitting-HYD, Straight
13:1	237-78	1	O-Ring
13:2	237-21	1	O-Ring
14	100-5629	1	Hose ASM

● Not illustrated



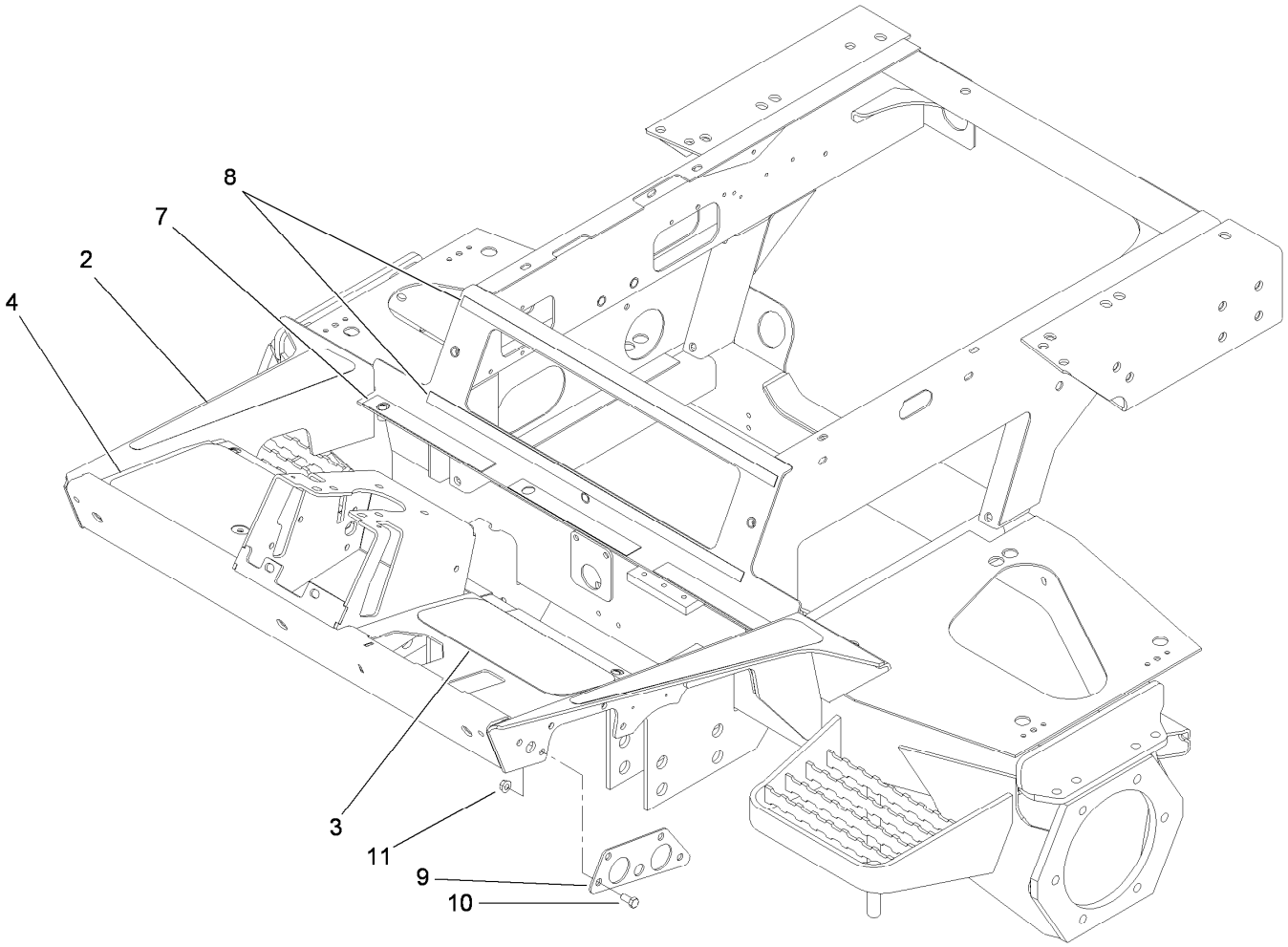
Hydraulic Motor Assembly No. 105-9872

Ref.	*Part Number*	*Qty.*	*Description*
1	107-7819	1	Seal Kit
2	107-7820	1	Valve-Relief
3	107-7821	1	Valve-Anticavitation



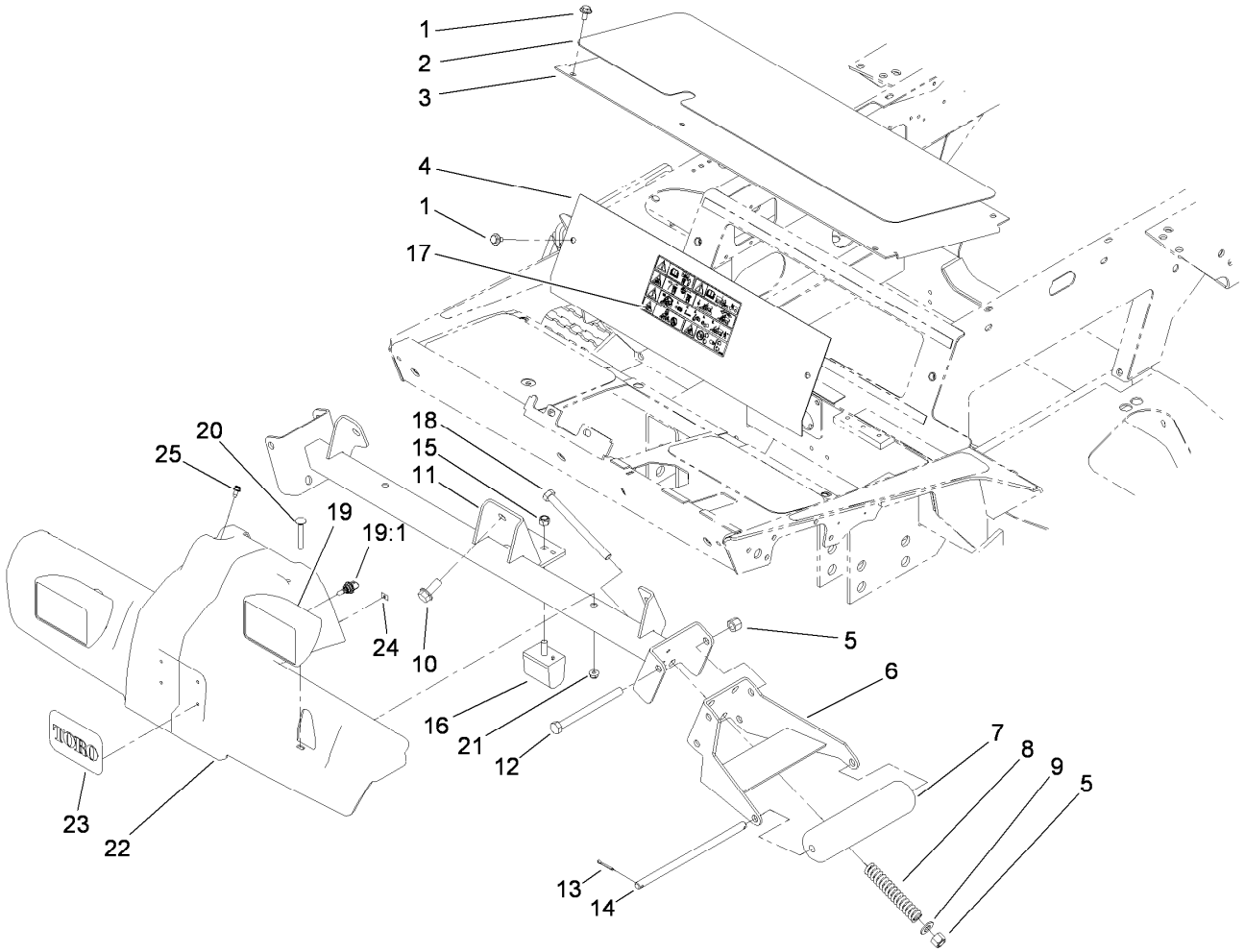
Roll-Over Protection System and Front Frame Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	108-4018	1	ROPS ASM
1:2	117-4776	1	Decal-ROPS
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

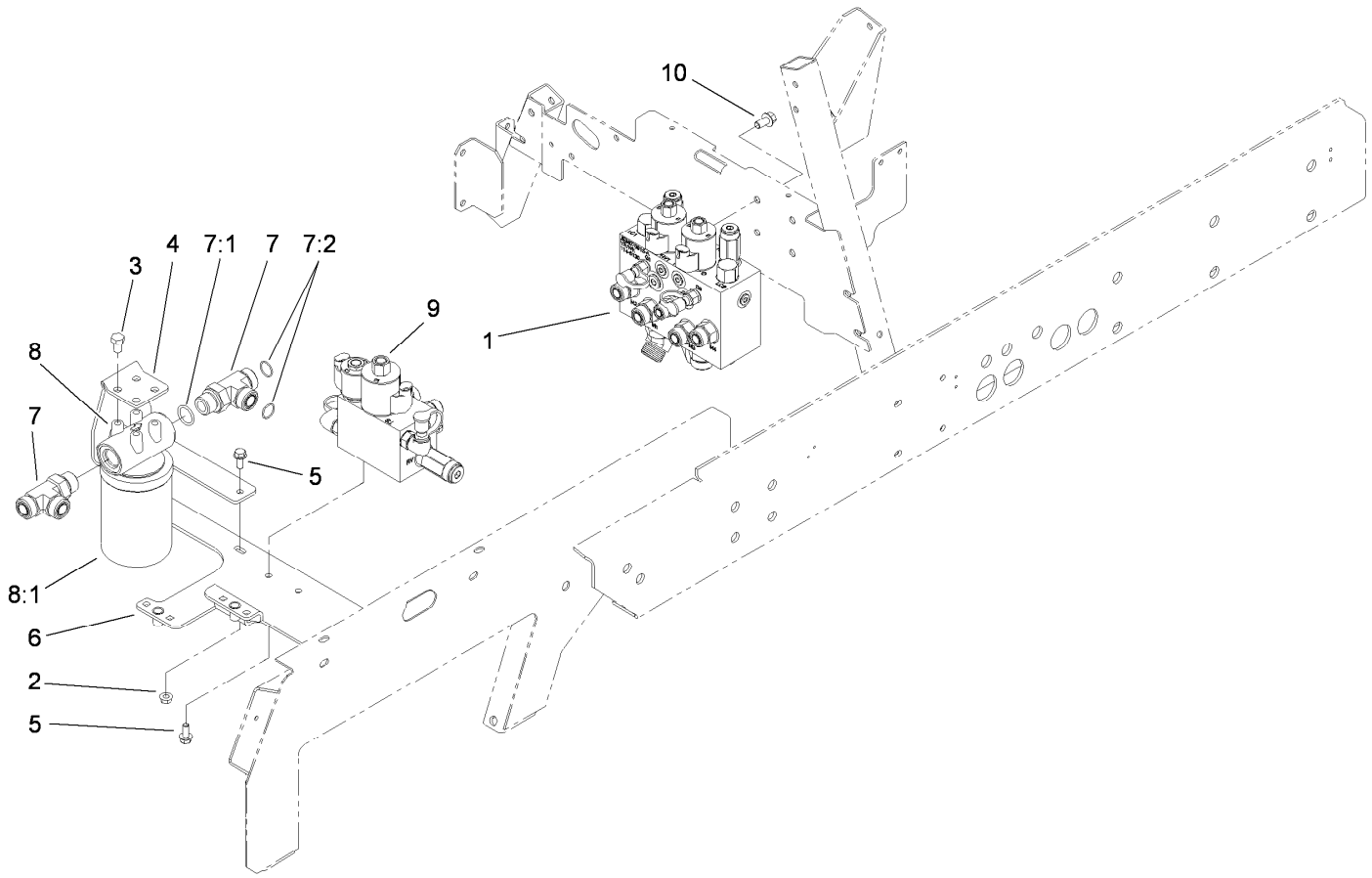
Ref.	*Part Number*	*Qty.*	*Description*
2	93-7592	2	Tread-Rest, Foot
3	75-0620	1	Tread-Foot, LH
4	104-5223	1	Tread-Foot, RH
7	105-9859	6	Seal-Foam
8	105-9860	2	Seal-Foam
9	106-7794-01	2	Plate-Mount, HYD Fitting
10	322-3	8	Screw-HH
11	32128-20	8	Nut-HF



Front Shroud and Work Light Assembly

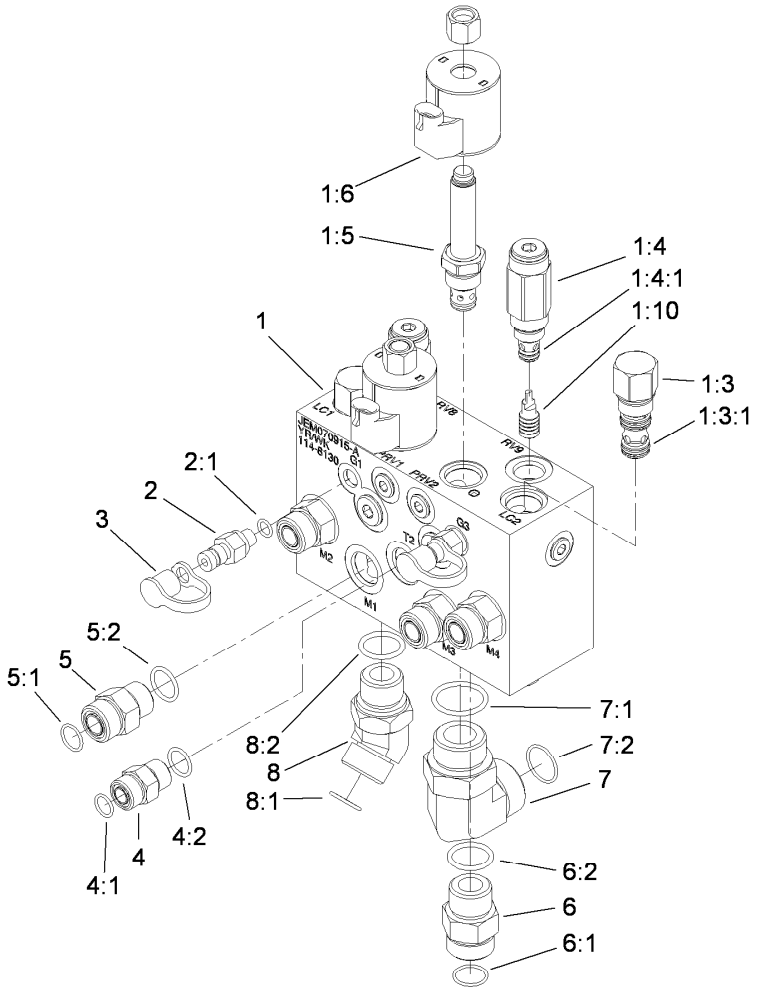
Ref.	Part Number	Qty.	Description
1	3234-7	7	Screw-HHF
2	75-0630	1	Tread-Foot, Center
3	75-1410-01	1	Plate-Access, Floor
4	105-9243-01	1	Plate-Access
5	3296-23	4	Nut-Lock, NI
6	105-3996-01	2	Support-Roller
7	105-9816	2	Roller-Plastic
8	105-3970	2	Spring-Compression
9	3256-26	2	Washer-Flat
10	3234-38	3	Screw-HHF
11	117-4760-01	1	Support-Roller
12	325-22	2	Screw-HH
13	3272-11	4	Pin-Cotter
14	104-5545	2	Shaft-Roller

Ref.	Part Number	Qty.	Description
15	33025-00	1	Nut-Lock, NI
16	87-3470	1	Bumper-Axle, Rear
17	112-5297	1	Decal-Danger
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	Screw-CARR
21	104-8300	2	Nut-Flange, 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

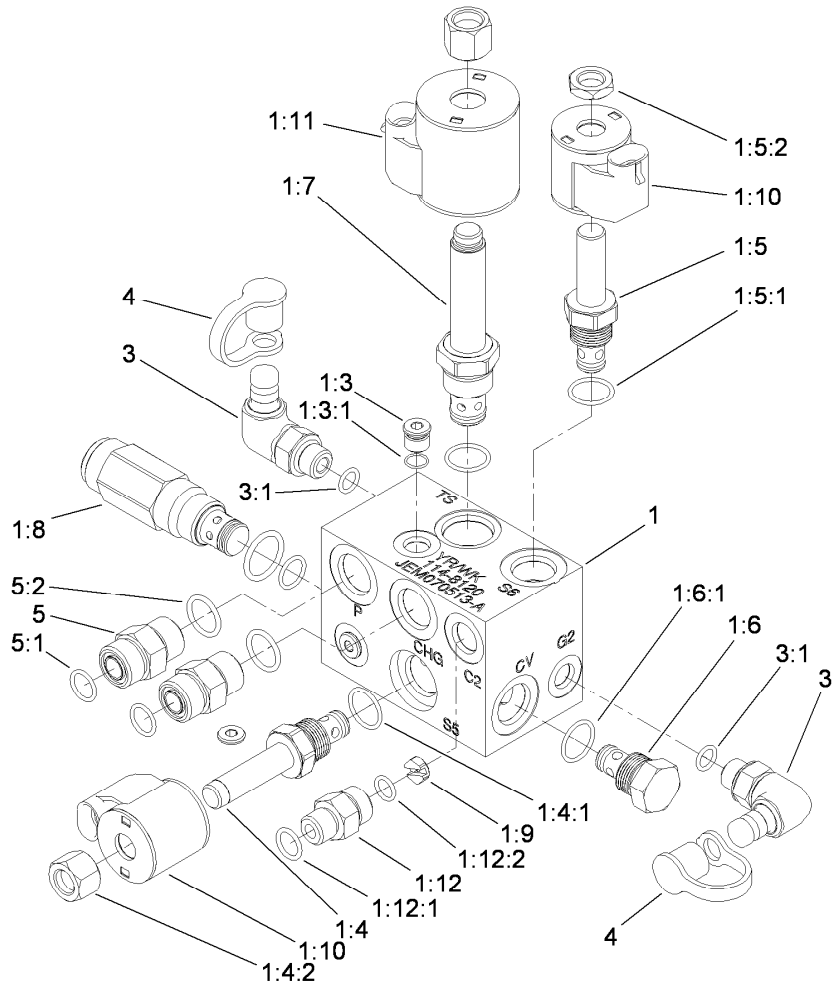
Ref.	*Part Number*	*Qty.*	*Description*
1	117-2392	1	Mow Manifold ASM
2	32128-20	2	Nut-HF
3	33115-016	4	Screw-HH
4	104-5492-03	1	Bracket-Mount, Filter
5	3234-5	8	Screw-HHF
6	117-2362	1	Bracket-Mount, Valve
7	340-148	2	Fitting-Tee
7:1	237-81	1	O-Ring
7:2	237-58	2	O-Ring
8	93-2242	1	Oil Filter ASM
8:1	75-1310	1	Element-Filter
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	105-9154	1	Seal Kit
1:4	112-5259	2	Valve-Relief
1:4:1	105-9156	1	Seal Kit
1:5	110-8799	2	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-HYD, Straight
4:1	237-30	1	O-Ring
4:2	237-79	1	O-Ring
5	340-7	4	Adapter
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-9	1	Fitting-Straight
6:1	237-58	1	O-Ring
6:2	237-81	1	O-Ring
7	340-129	1	Fitting-HYD, 90 DEG
7:1	237-146	1	O-Ring
7:2	340-65	1	O-Ring
8	100-5530	1	Fitting-HYD, 45 DEG
8:1	237-58	1	O-Ring
8:2	237-81	1	O-Ring

● Not serviced separately



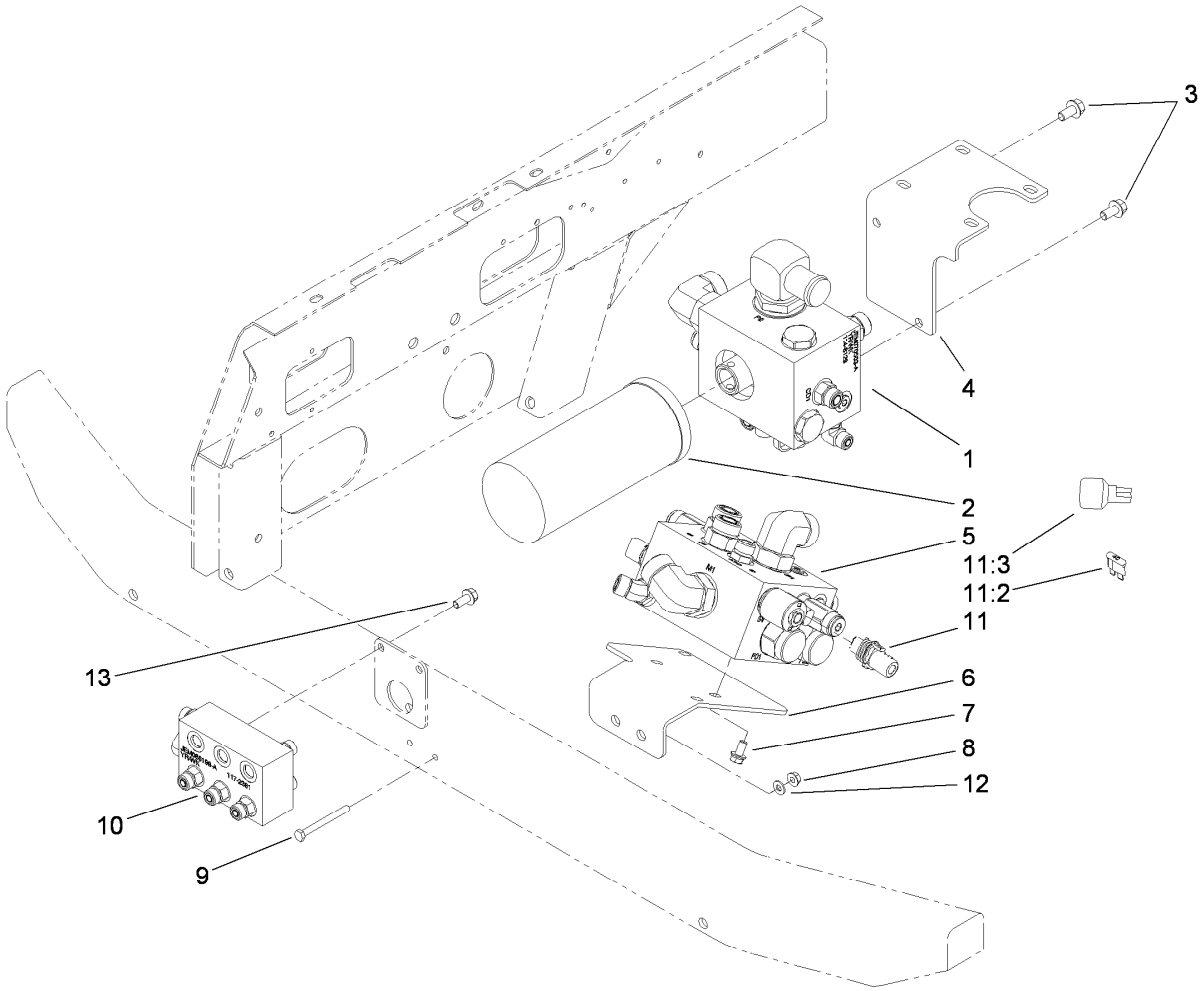
Lift Manifold Assembly No. 117-2388

Ref.	Part Number	Qty.	Description
1		1	Manifold-Lift ■
1:3	106-1025	3	Plug-HYD
1:3:1	237-78	1	O-Ring
1:4	107-7517	1	Valve-Solenoid
1:4:1	105-9156	1	Seal Kit
1:4:2	107-7812	1	Nut-Solenoid ●
1:5	112-9206	1	Valve-Solenoid
1:5:1	105-9156	1	Seal Kit
1:5:2	110-2634	1	Nut-Coil
1:6	105-9321	1	Valve-Check
1:6:1	105-9156	1	Seal Kit
1:7	117-2399	1	Relief Valve-Proportional
1:8	117-4793	1	Valve-Relief

Ref.	Part Number	Qty.	Description
1:9	117-4756	1	Orifice-Flow Control, .080
1:10	110-0497	2	Coil-Solenoid
1:11	110-6344	1	Coil-12V, Dc
1:12	340-2	1	Fitting-HYD, Straight
1:12:1	237-22	1	O-Ring
1:12:2	237-42	1	O-Ring
3	115-9147	2	Fitting-Elbow, 90 DEG
3:1	237-78	1	O-Ring
4	354-79	2	Cap-Dust
5	340-4	2	Fitting-HYD, Straight
5:1	237-30	1	O-Ring
5:2	237-79	1	O-Ring

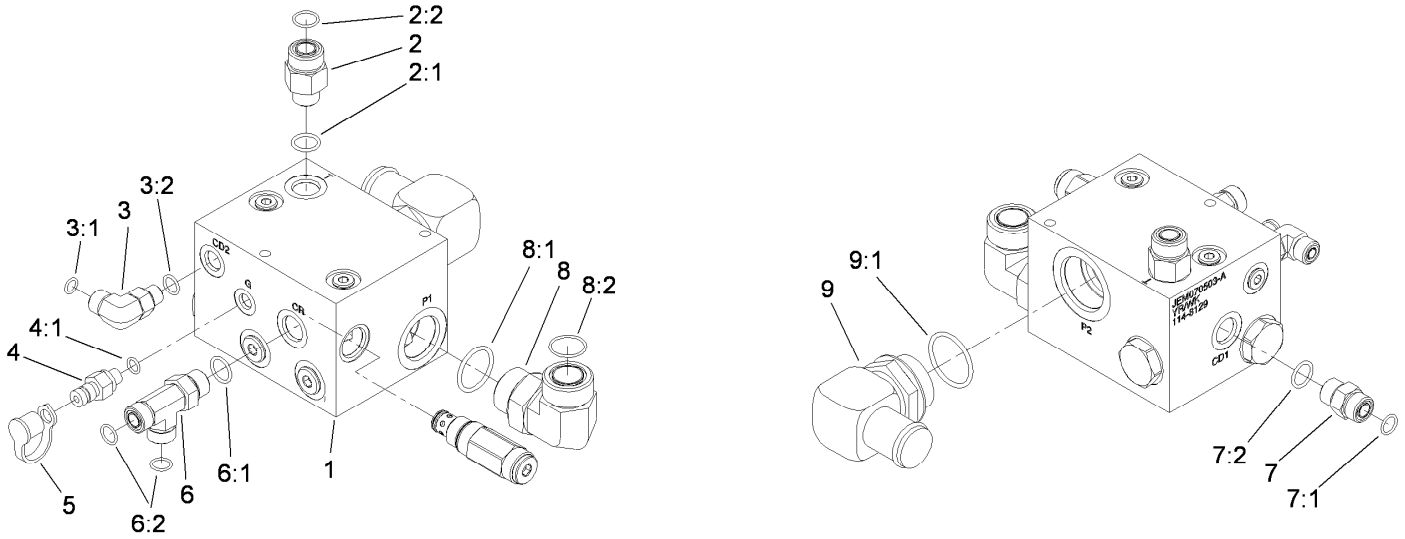
● Not illustrated

■ Not serviced separately



4-Wheel Drive Manifold and Filter Assembly

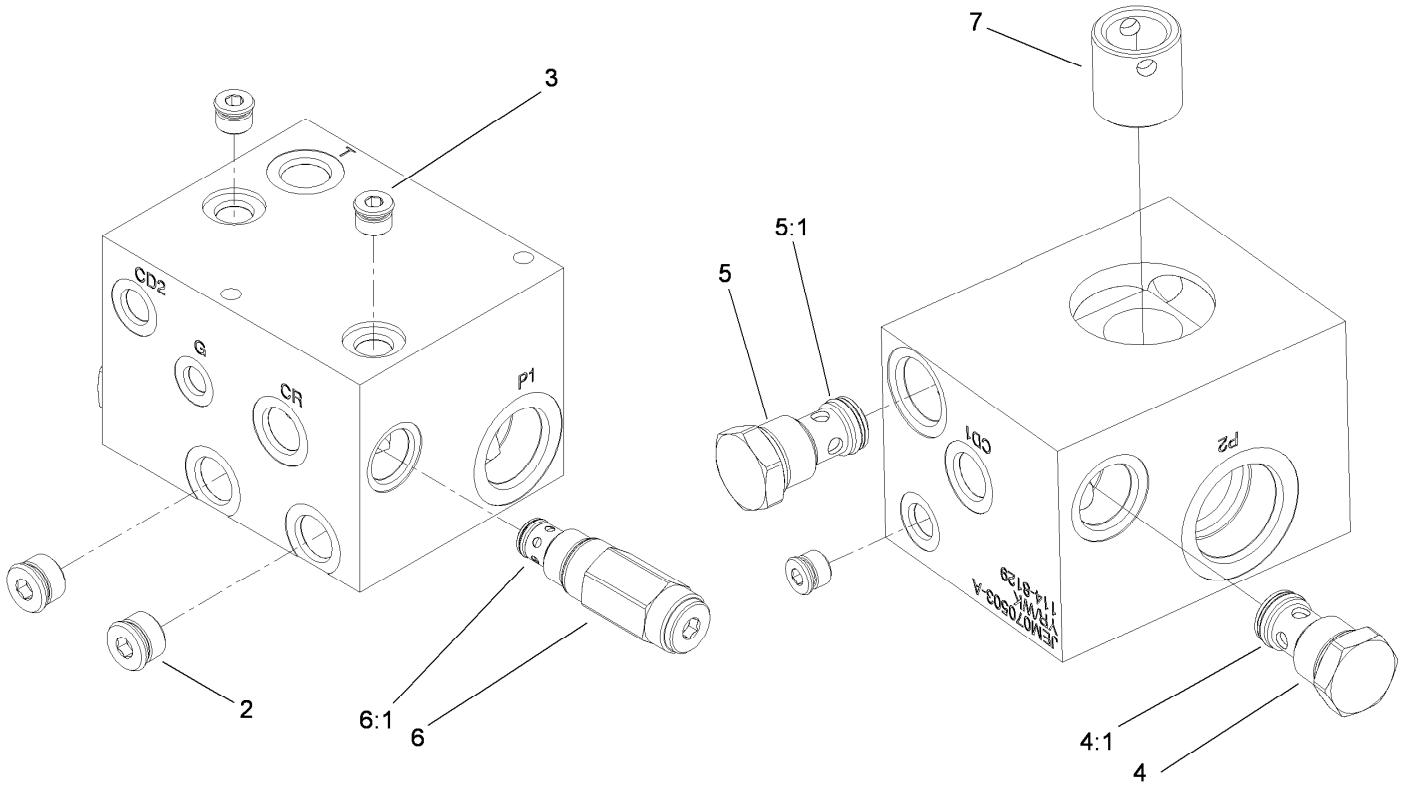
Ref.	*Part Number*	*Qty.*	*Description*
1	117-2391	1	Filter Manifold ASM
2	94-2621	1	Element-Filter
3	110-1718	2	Screw-HHF
4	114-8135-03	1	Bracket-Manifold, Filter
5	117-2390	1	4Wd Manifold ASM
6	104-5467-03	1	Bracket-Mount, Valve
7	3234-14	3	Screw-HHF
8	32128-33	2	Nut-HF
9	321-14	2	Screw-HH
10	117-2394	1	Junction Manifold ASM
11	115-9102	1	Harness-Wire, Main
11:2	99-6124	1	Fuse-Blade, 40 Amp
11:3	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	Manifold-Filter ●
2	340-155	1	Fitting-HYD, Straight
2:1	237-79	1	O-Ring
2:2	237-151	1	O-Ring
3	340-77	1	Fitting-HYD, 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-HYD, Tee
6:1	237-79	1	O-Ring
6:2	237-30	2	O-Ring
7	340-4	1	Fitting-HYD, Straight
7:1	237-30	1	O-Ring
7:2	237-79	1	O-Ring
8	340-129	1	Fitting-HYD, 90 DEG
8:1	237-146	1	O-Ring
8:2	340-65	1	O-Ring
9	92-7526	1	Fitting-HYD, 90 DEG
9:1	237-101	1	O-Ring

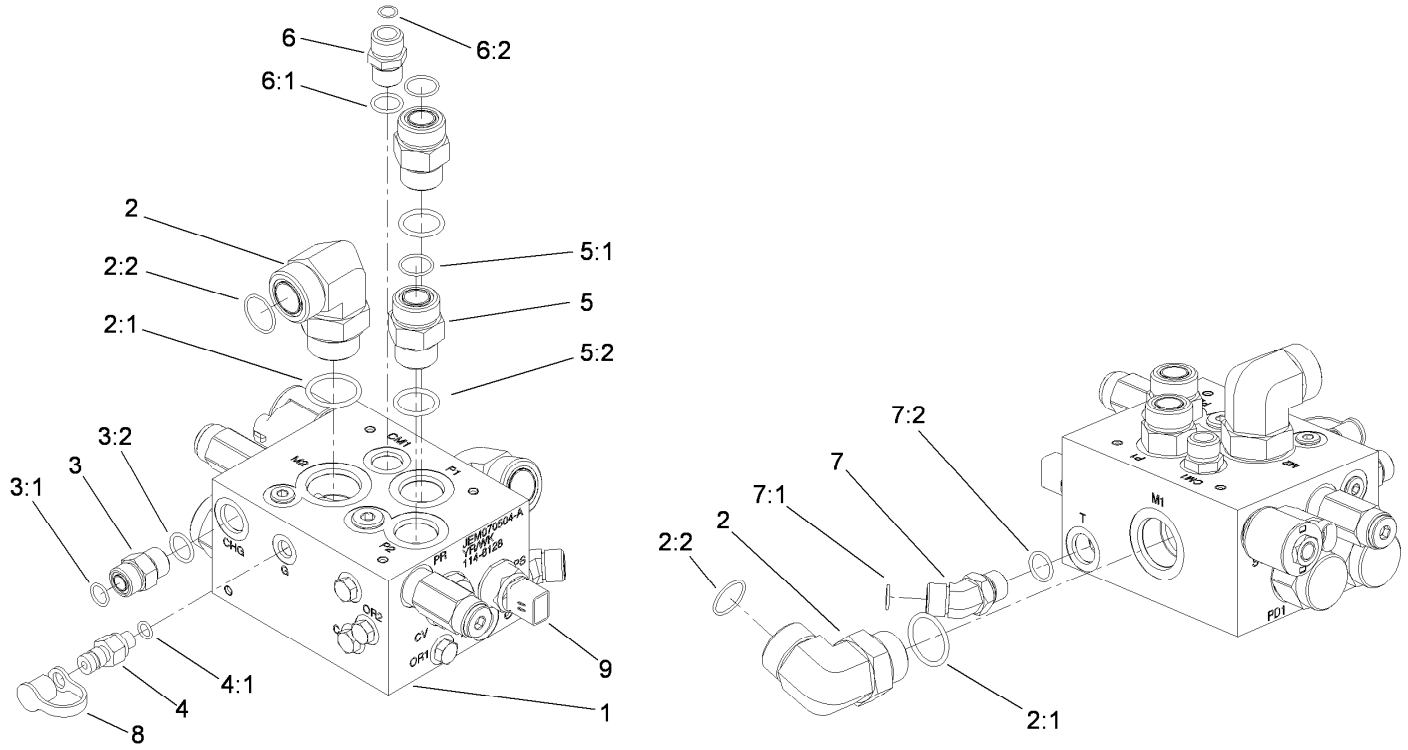
● Not serviced separately



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 ●

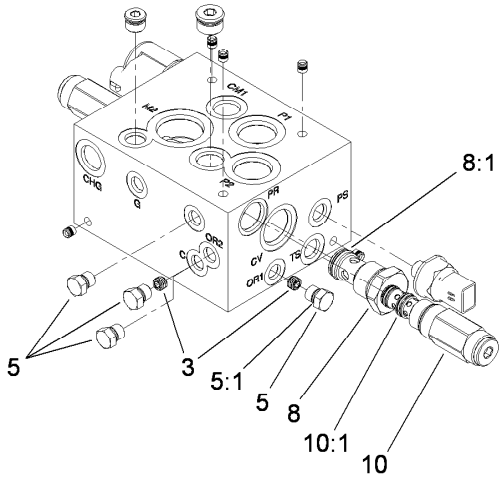
● Not serviced separately

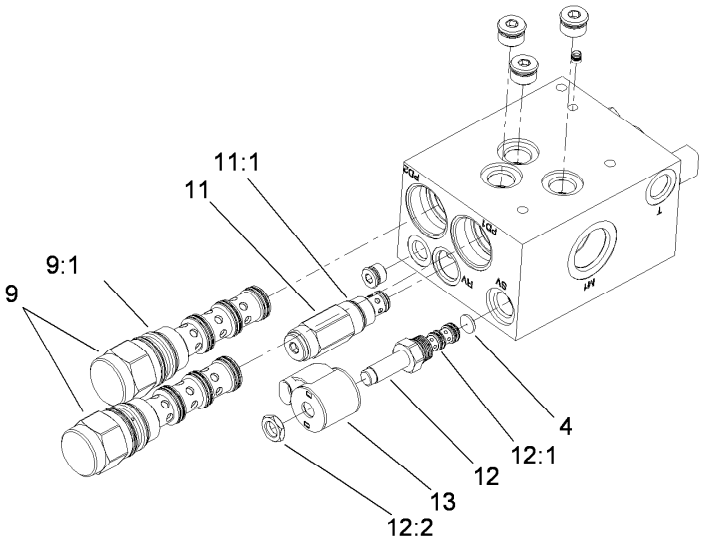


4-Wheel Drive Manifold Assembly No. 117-2390

Ref.	*Part Number*	*Qty.*	*Description*
1		1	Manifold-4Wd ●
2	340-129	2	Fitting-HYD, 90 DEG
2:1	237-146	1	O-Ring
2:2	340-65	1	O-Ring
3	340-4	1	Fitting-HYD, 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-Straight
5:1	237-58	1	O-Ring
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	115-9132	1	Sensor-Pressure

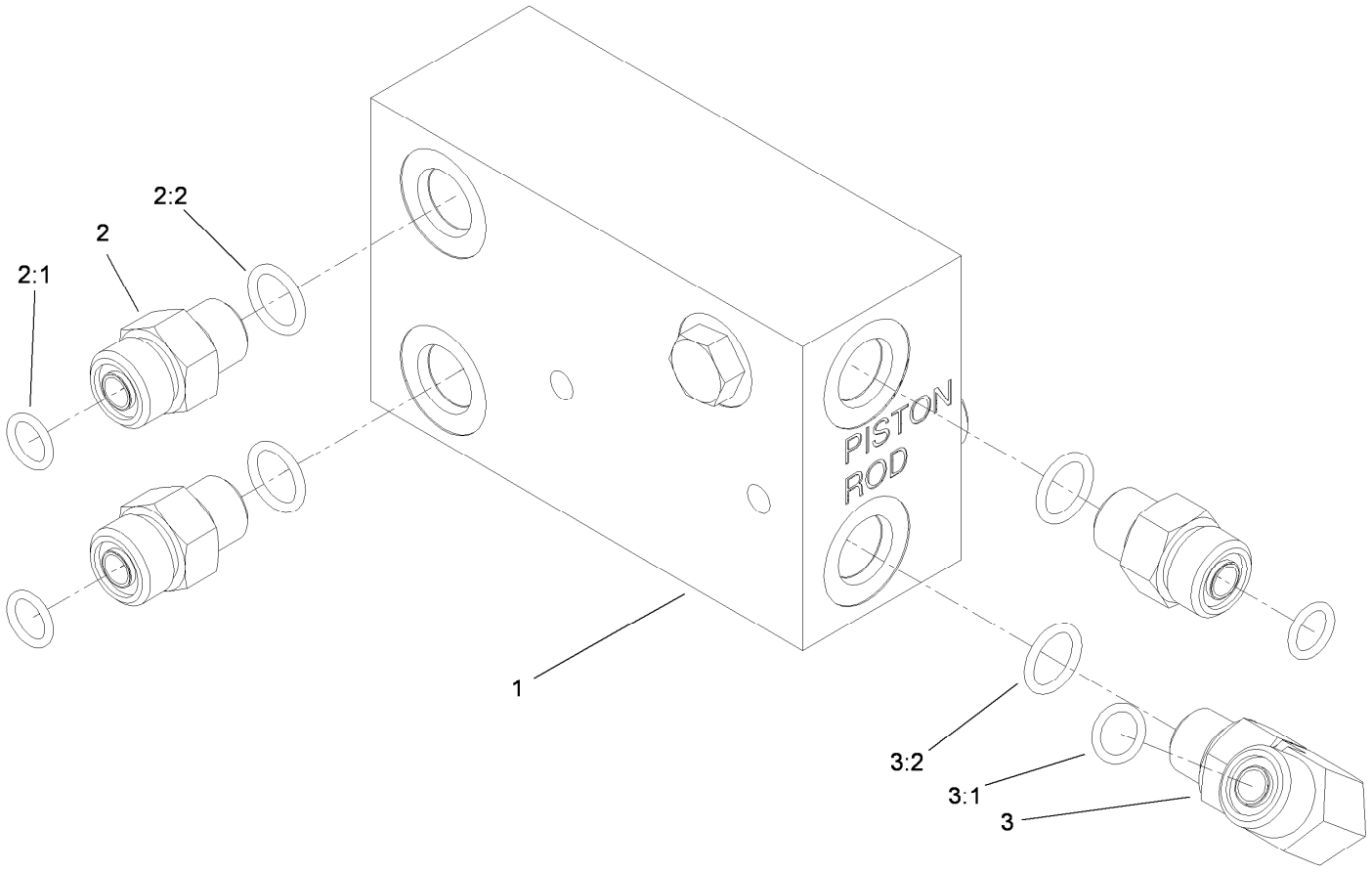
● Not serviced separately





4-Wheel Drive Manifold Assembly

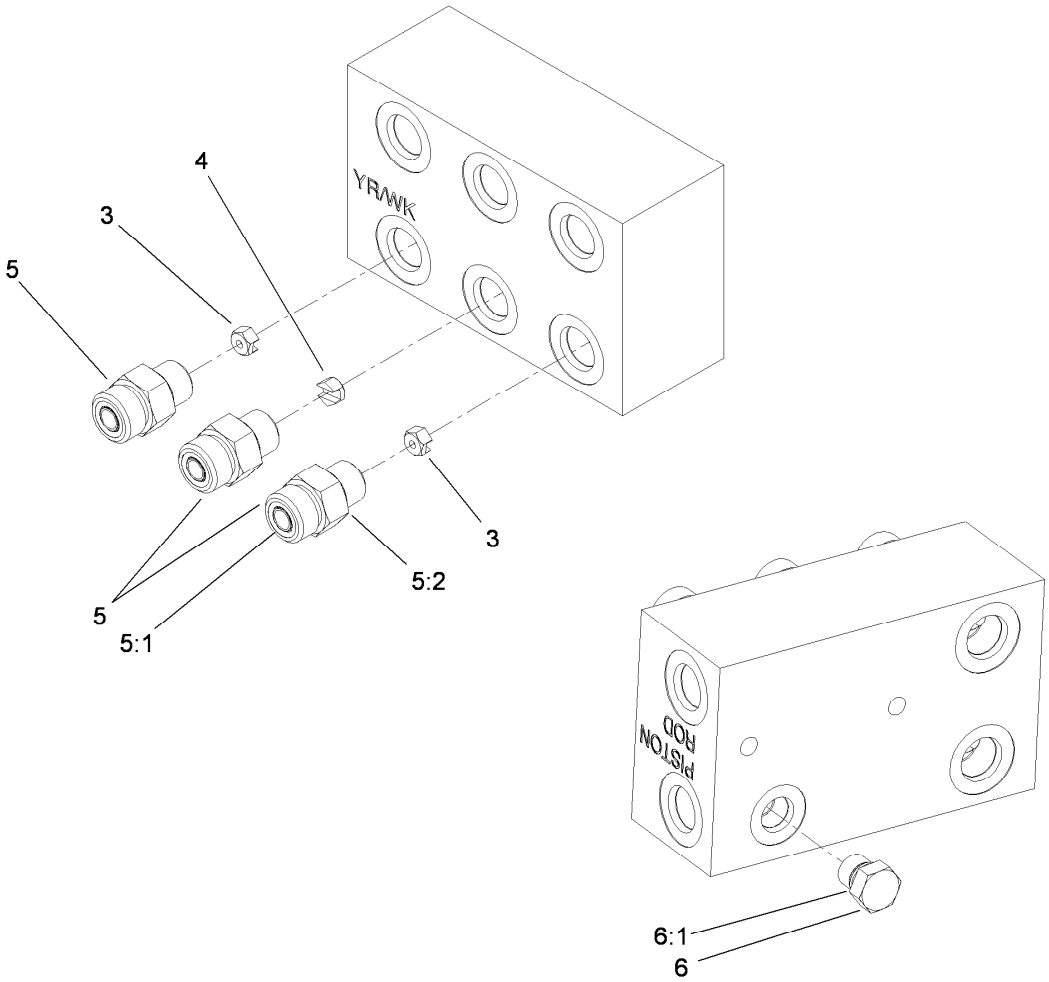
Ref.	*Part Number*	*Qty.*	*Description*
3	110-0495	2	Orifice (.050)
4	110-0498	1	Orifice (.030)
5	117-0115	4	Plug-HYD
5:1	237-78	1	O-Ring
8	110-0468	1	Valve-Check, 5 Psi
8:1	110-0470	1	Seal Kit
9	110-0491	2	Valve-Directional
9:1	106-6775	1	Seal Kit
10	110-0496	1	Valve-Reducing, Pressure
10:1	105-9154	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

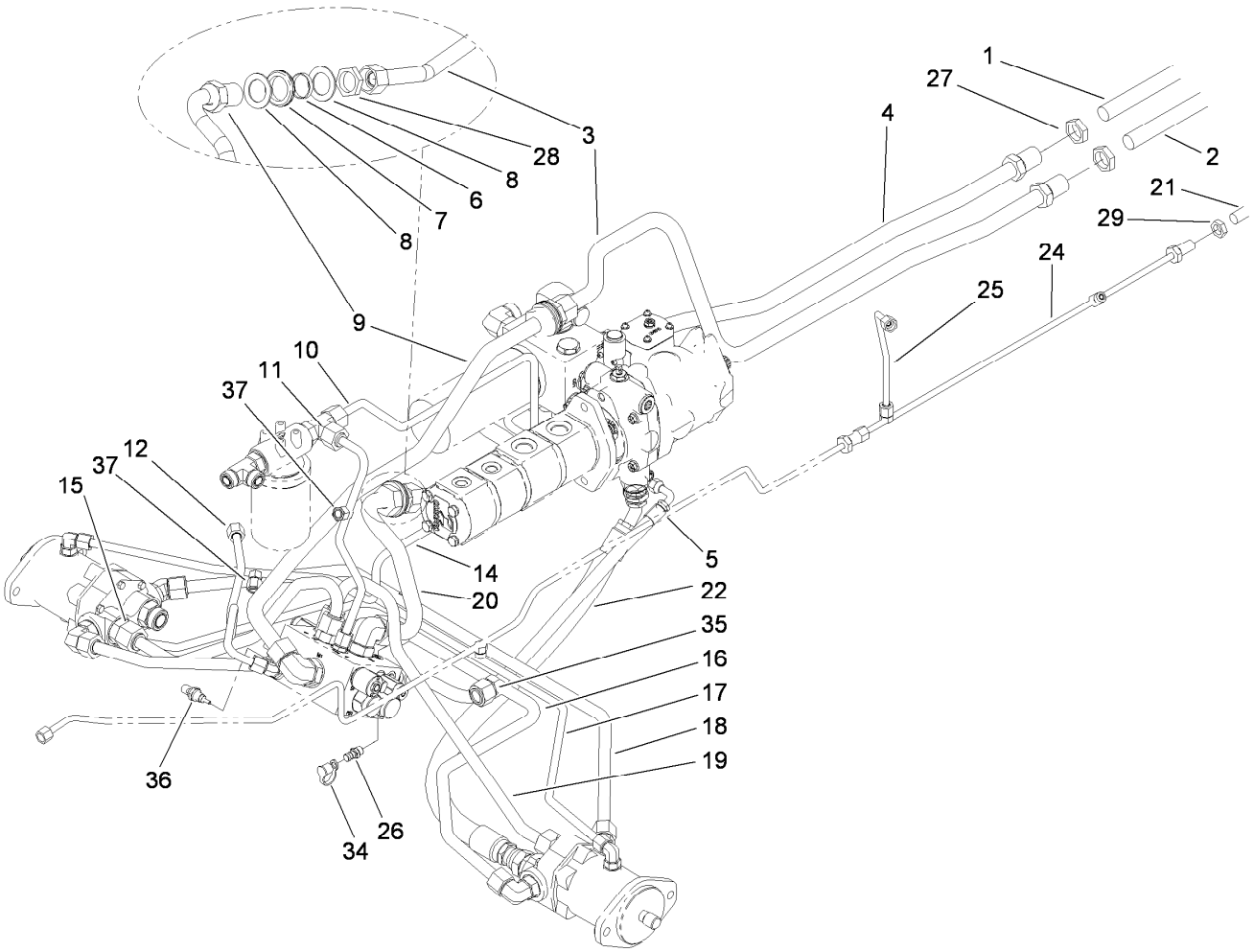
Ref.	*Part Number*	*Qty.*	*Description*
1		1	Manifold-Junction ●
2	340-2	3	Fitting-HYD, Straight
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	340-77	1	Fitting-HYD, 90 DEG
3:1	237-22	1	O-Ring
3:2	237-42	1	O-Ring

● Not serviced separately



Junction Manifold Assembly

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

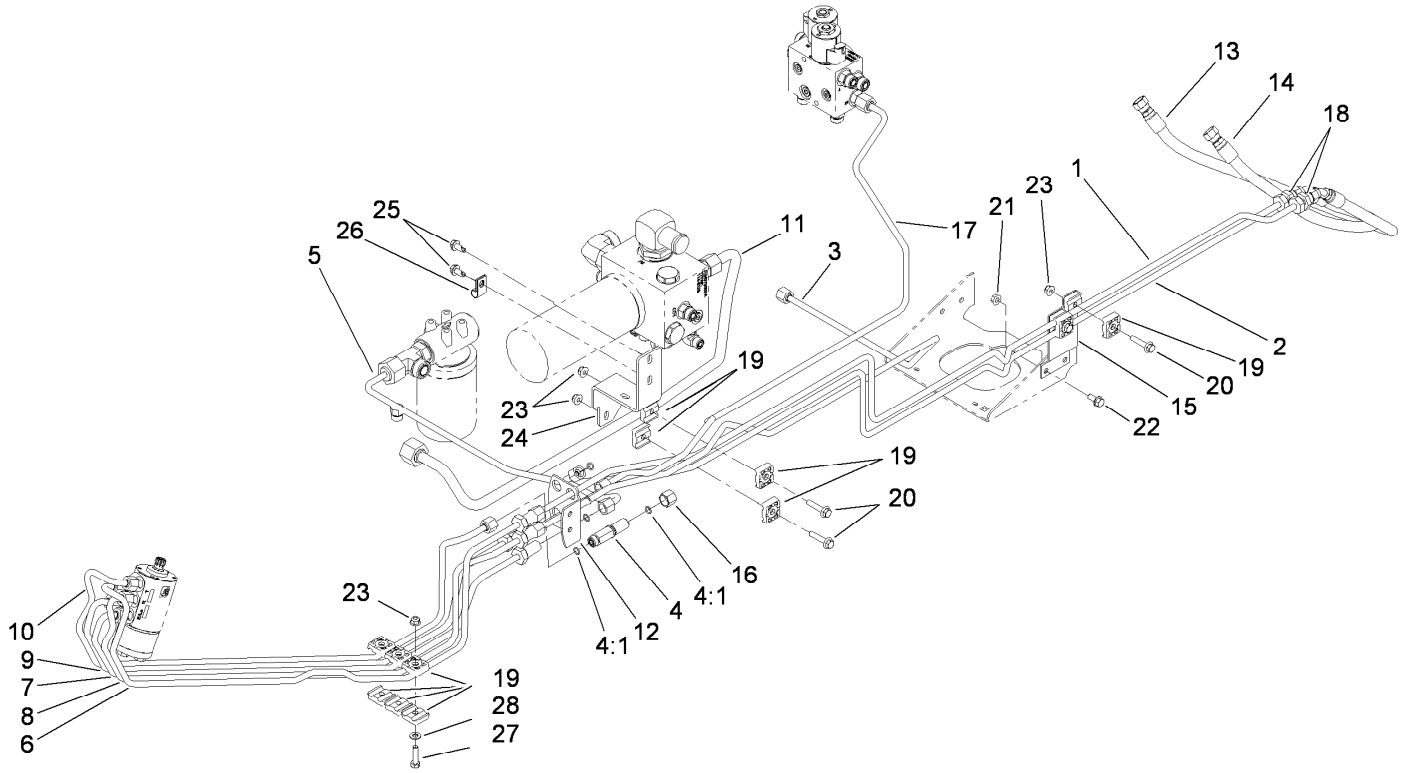


Traction Hydraulic Lines Assembly

Ref.	Part Number	Qty.	Description
1	92-7536	1	Hose ASM
2	105-9818	1	Hose ASM
3	114-8118	1	Tube-HYD
3:1	237-58	1	O-Ring ●
4	115-4431	1	Tube-HYD
5	117-2350	1	Hose ASM
6	69-8950	2	Spacer
7	240-2	2	Grommet-Rubber
8	69-8920	4	Washer
9	114-8149	1	Tube-HYD
10	115-4426	1	Tube-HYD
11	114-8148	1	Tube-HYD
12	115-4351	1	Tube-HYD
14	115-4427	1	Tube-HYD
15	114-8145	1	Tube-HYD
16	115-9113	1	Tube-HYD
17	115-9126	1	Tube-HYD
18	104-5462	1	Tube ASM

Ref.	Part Number	Qty.	Description
19	114-8146	1	Tube-HYD
20	114-8147	1	Tube-HYD
21	92-7534	1	Hose ASM
22	104-5464	2	Hose ASM
24	114-4194	1	Tube-HYD
24:1	237-22	3	O-Ring ●
25	115-9124	1	Tube-HYD
26	59-7410	2	Tip-Nipple, 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
36	110-8829	1	Sender-Temperature
36:1	237-42	1	O-Ring ●
37	340-117	2	Cap

● Not illustrated

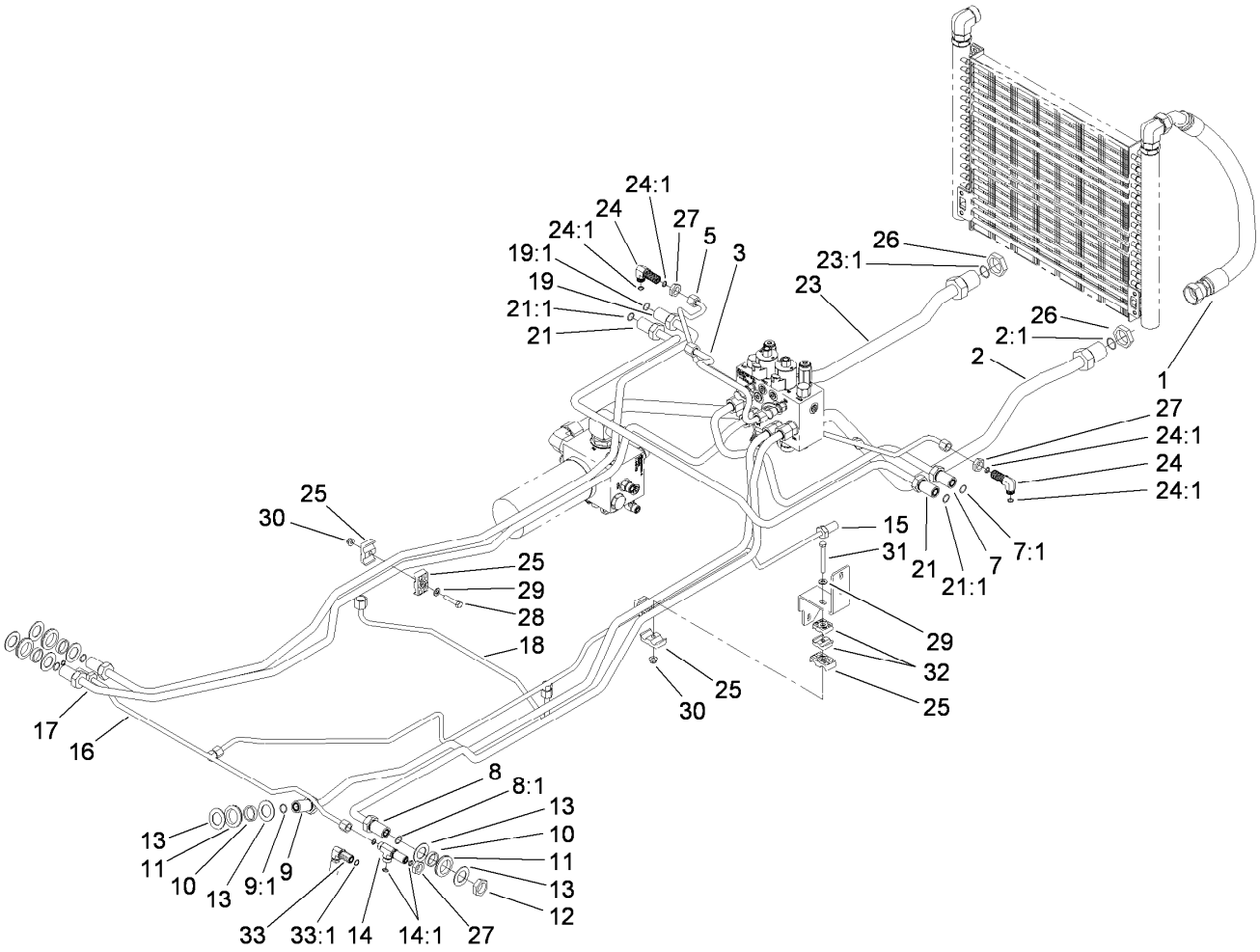


Hydraulic Steering Assembly

Ref.	Part Number	Qty.	Description
1	105-3871	1	Tube ASM
1:1	237-22	1	O-Ring ●
2	115-9128	1	Tube-HYD
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-HYD
5:1	237-22	1	O-Ring ●
6	115-4408	1	Tube-HYD
6:1	237-22	1	O-Ring ●
7	115-4406	1	Tube-HYD
7:1	237-22	1	O-Ring ●
8	115-4409	1	Tube-HYD
8:1	237-22	1	O-Ring ●
9	115-4405	1	Tube-HYD
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 ASM
14	92-7539	1	Hose ASM
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	7	Nut-Flange, NI
24	105-3993-03	1	Bracket-Support, Tube
25	32104-32	4	Screw-HWH
26	2412-138	1	R-Clamp
27	322-6	3	Screw-HH
28	3256-23	3	Washer-Flat

● Not illustrated

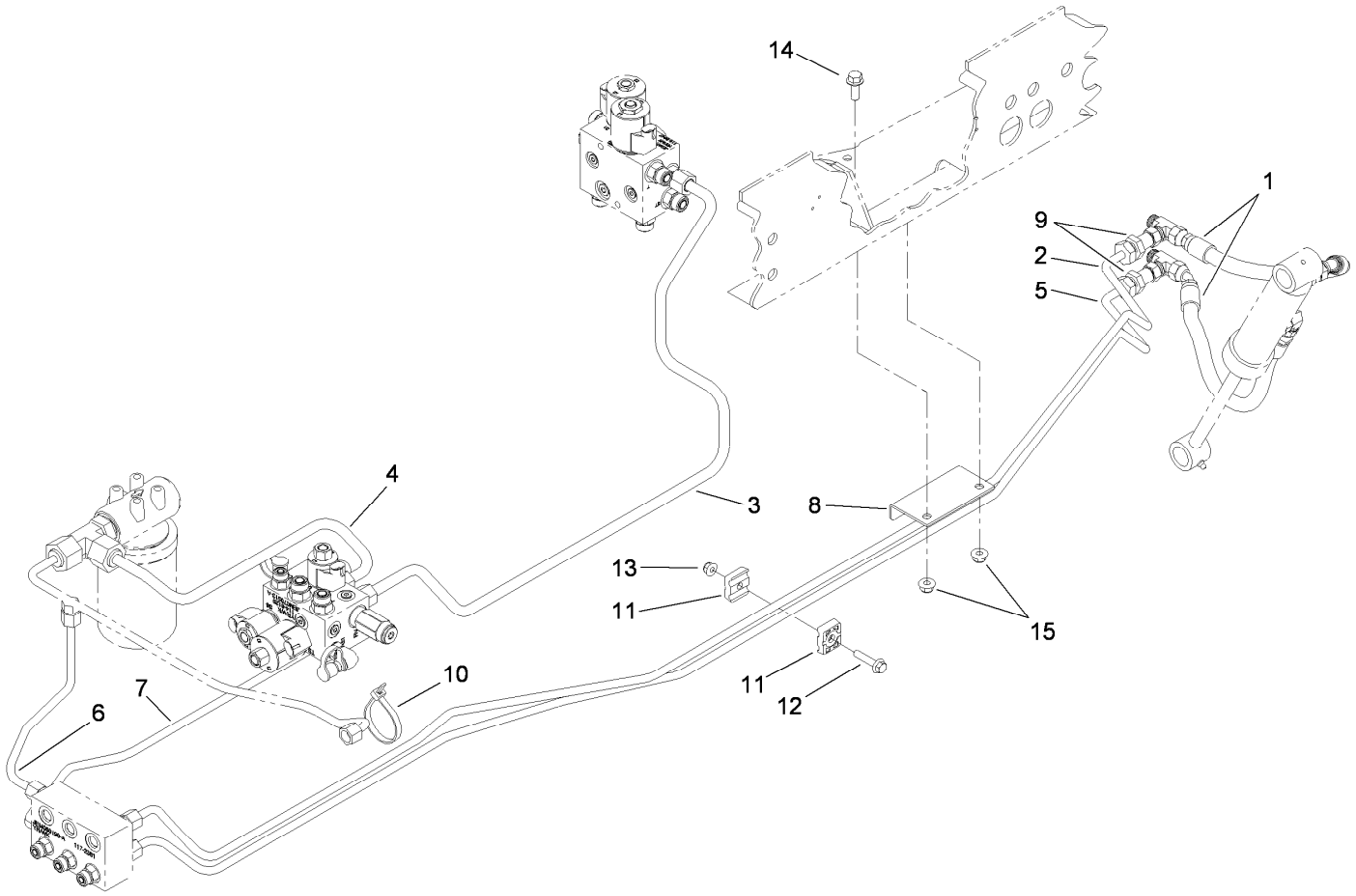


Mow Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	104-5483	2	Hose ASM
2	115-4378	1	Tube-HYD
2:1	340-65	1	O-Ring
3	115-4398	1	Tube-HYD
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 ●
16	115-9139	1	Tube-HYD
16:1	237-22	2	O-Ring ●

Ref.	Part Number	Qty.	Description
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-HYD
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	322-8	1	Screw-HH
29	3256-23	2	Washer-Flat
30	104-8300	2	Nut-Flange, NI
31	322-13	1	Screw-HH
32	56-7973	2	Clamp-Tube
33	340-72	1	Fitting-Bulkhead, 90 DEG
33:1	237-65	2	O-Ring

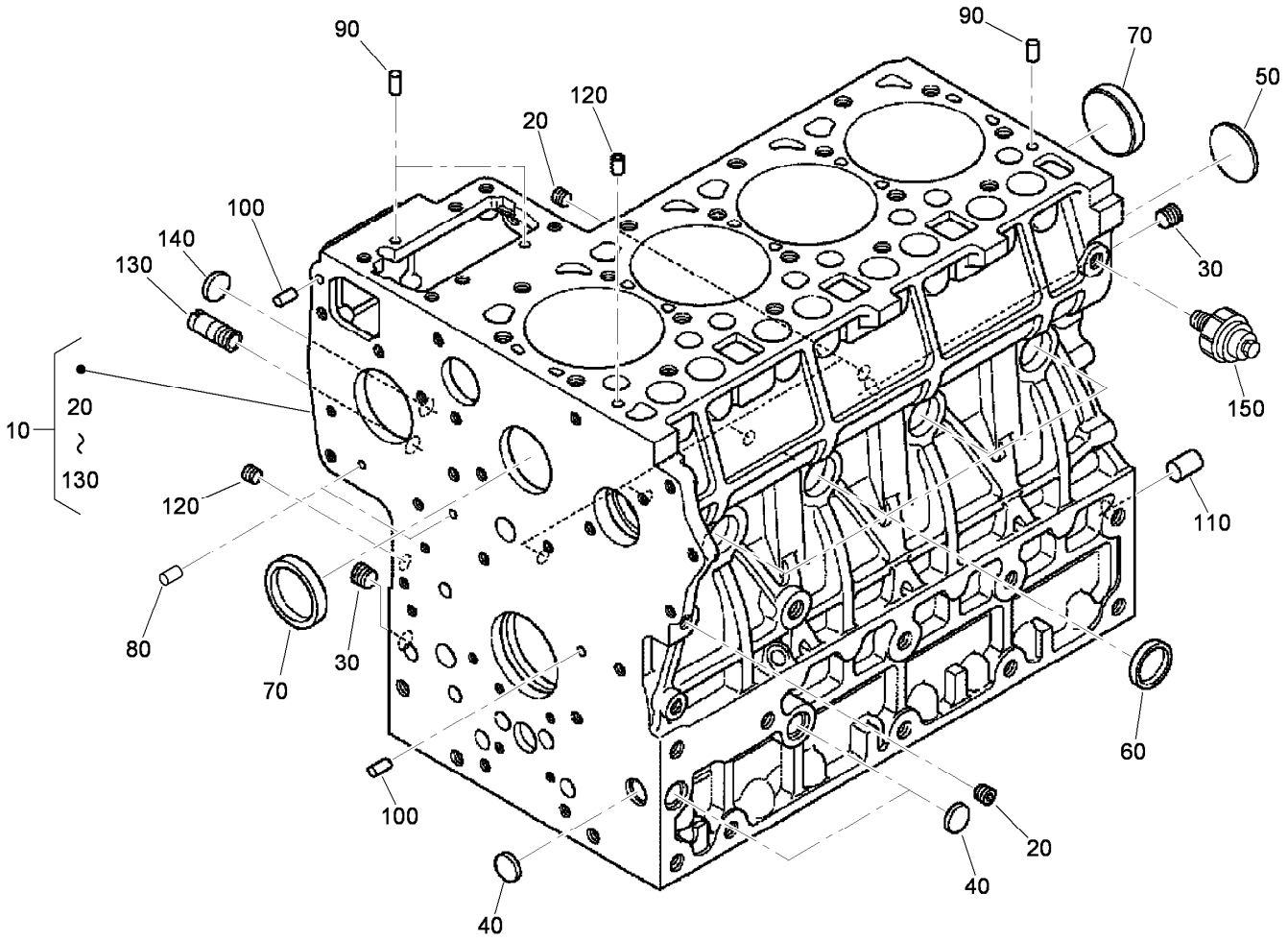
● Not illustrated



Lift Hydraulic Assembly

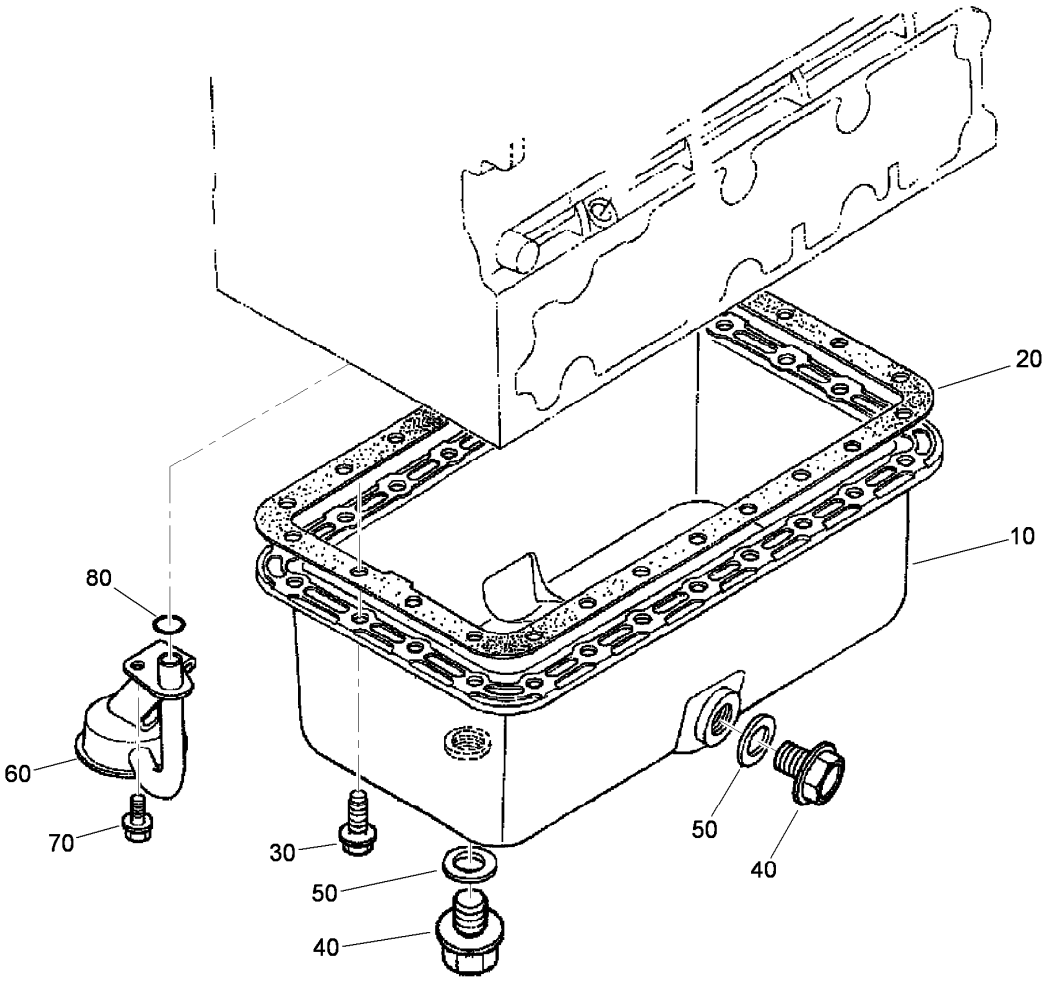
Ref.	*Part Number*	*Qty.*	*Description*
1	105-9238	4	Hose ASM
2	105-3988	1	Tube ASM
2:1	237-22	1	O-Ring ●
3	114-8144	1	Tube-HYD
4	114-8143	1	Tube-HYD
5	105-3989	1	Tube ASM
5:1	237-22	1	O-Ring ●
6	115-9121	1	Tube-HYD
7	114-8142	1	Tube-HYD
8	105-3990-03	1	Bracket-Support, Tube
9	340-70	2	Nut-Lock
10	3334-945	1	Tie-Cable
11	56-7973	4	Clamp-Tube
12	115-1794	2	Screw-HHF
13	104-8300	2	Nut-Flange, NI
14	3234-11	2	Screw-HHF
15	104-8301	1	Nut-Flange, NI

● Not illustrated



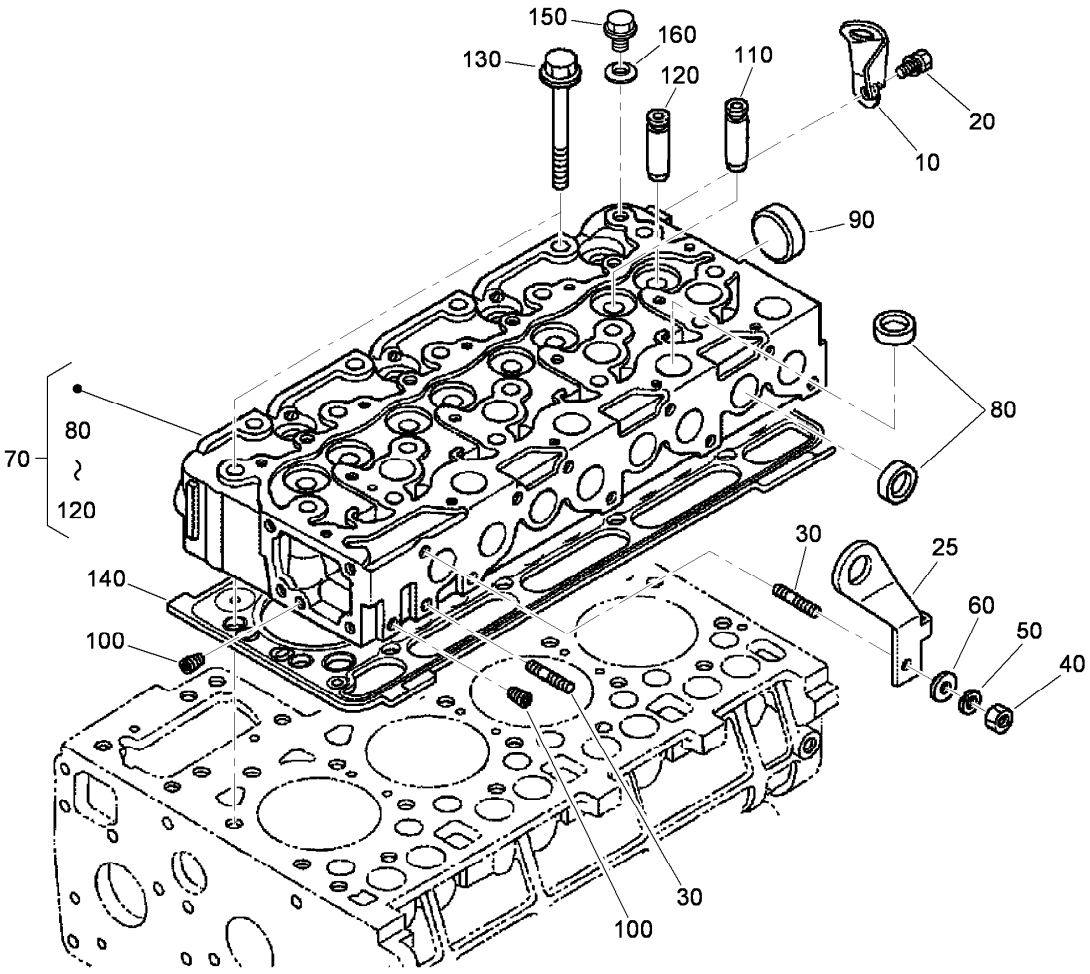
Crankcase Assembly

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



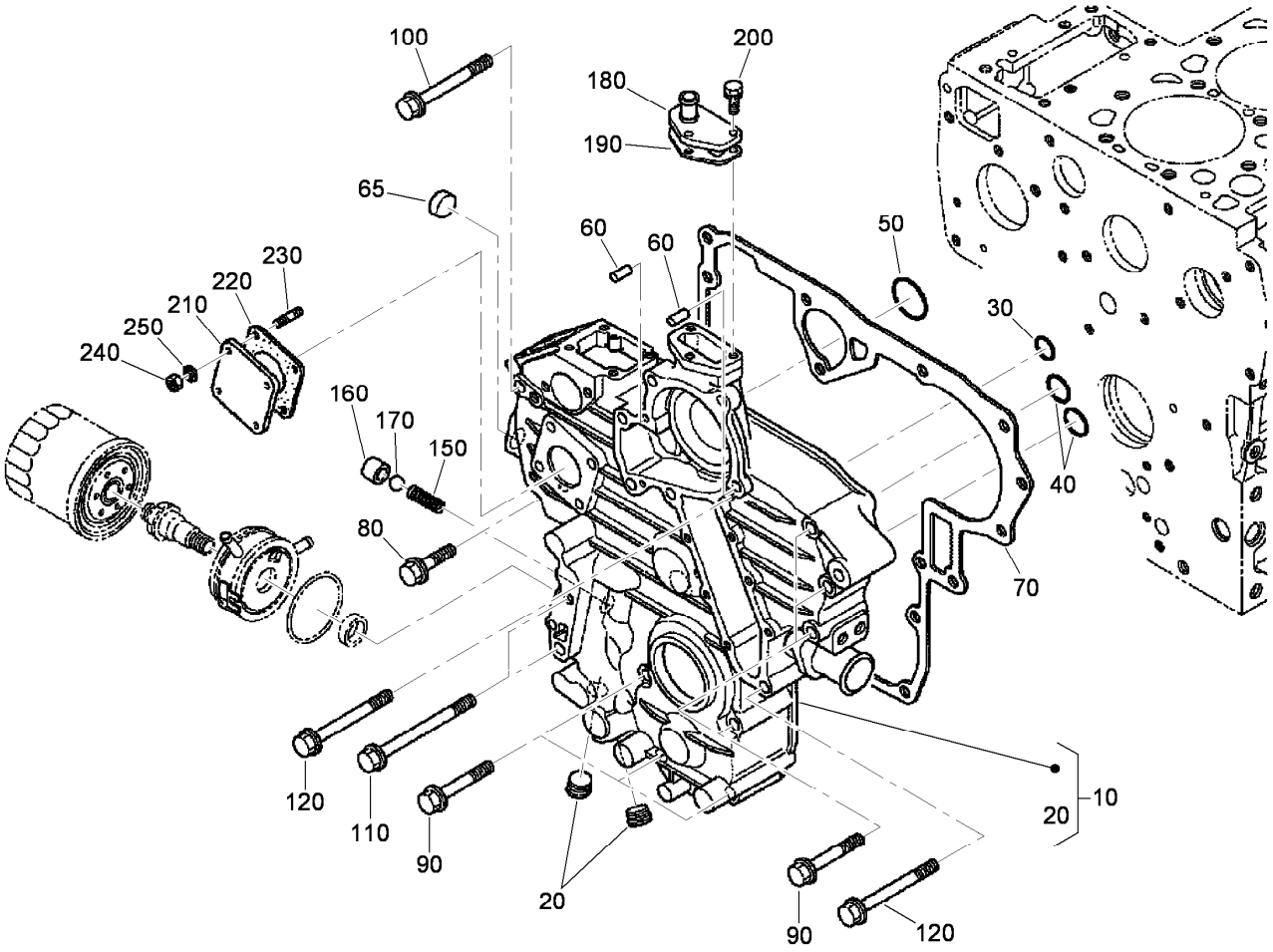
Oil Pan Assembly

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



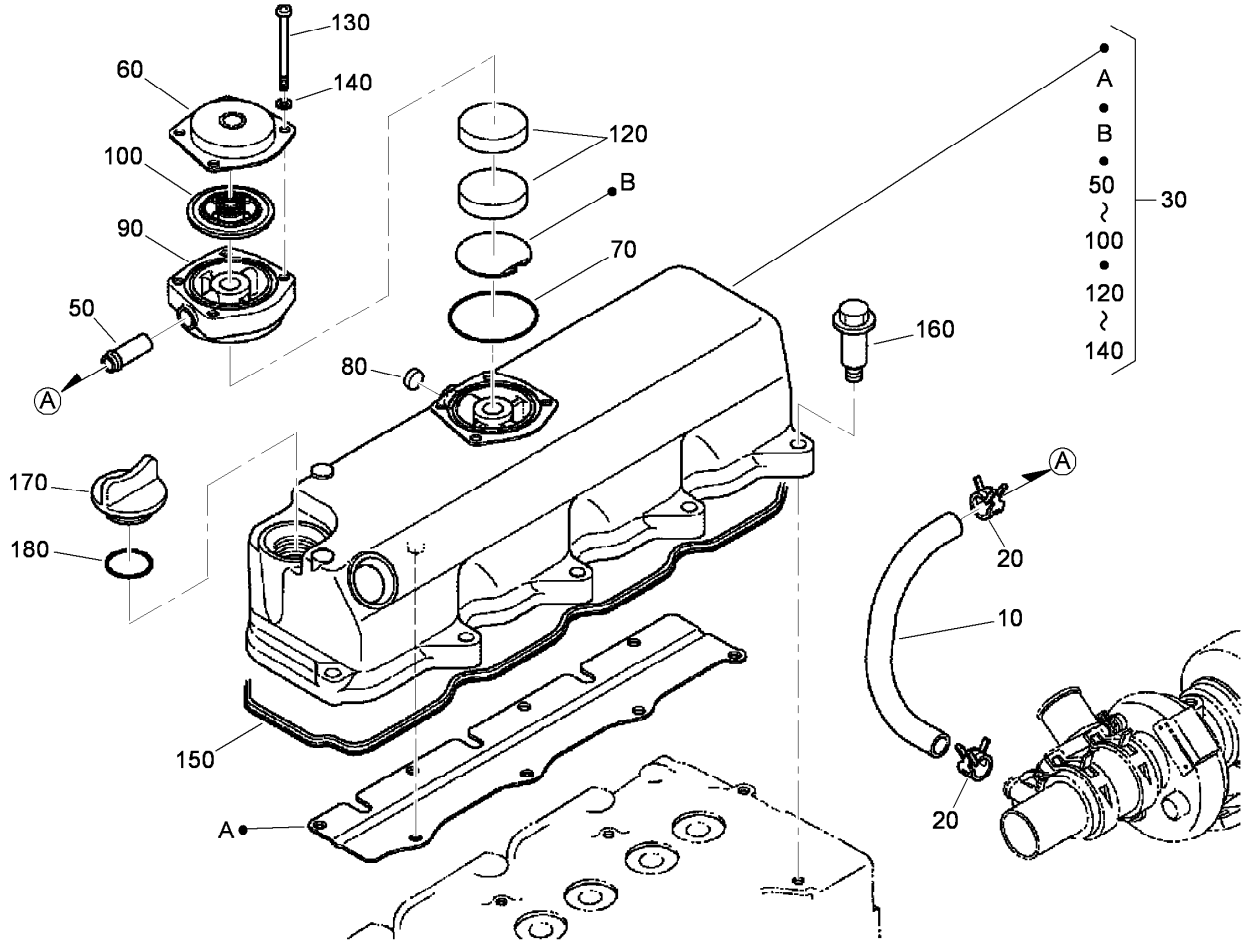
Cylinder Head Assembly

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
130	98-7543	18	Bolt-Head, Cylinder
140	115-8647	1	Gasket-Head, Cylinder (1.15Mm)
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	115-8509	1	Gasket-Head, Cylinder (1.20Mm)
150	98-7762	1	Plug
160	98-7763	1	Washer-W/Rubber



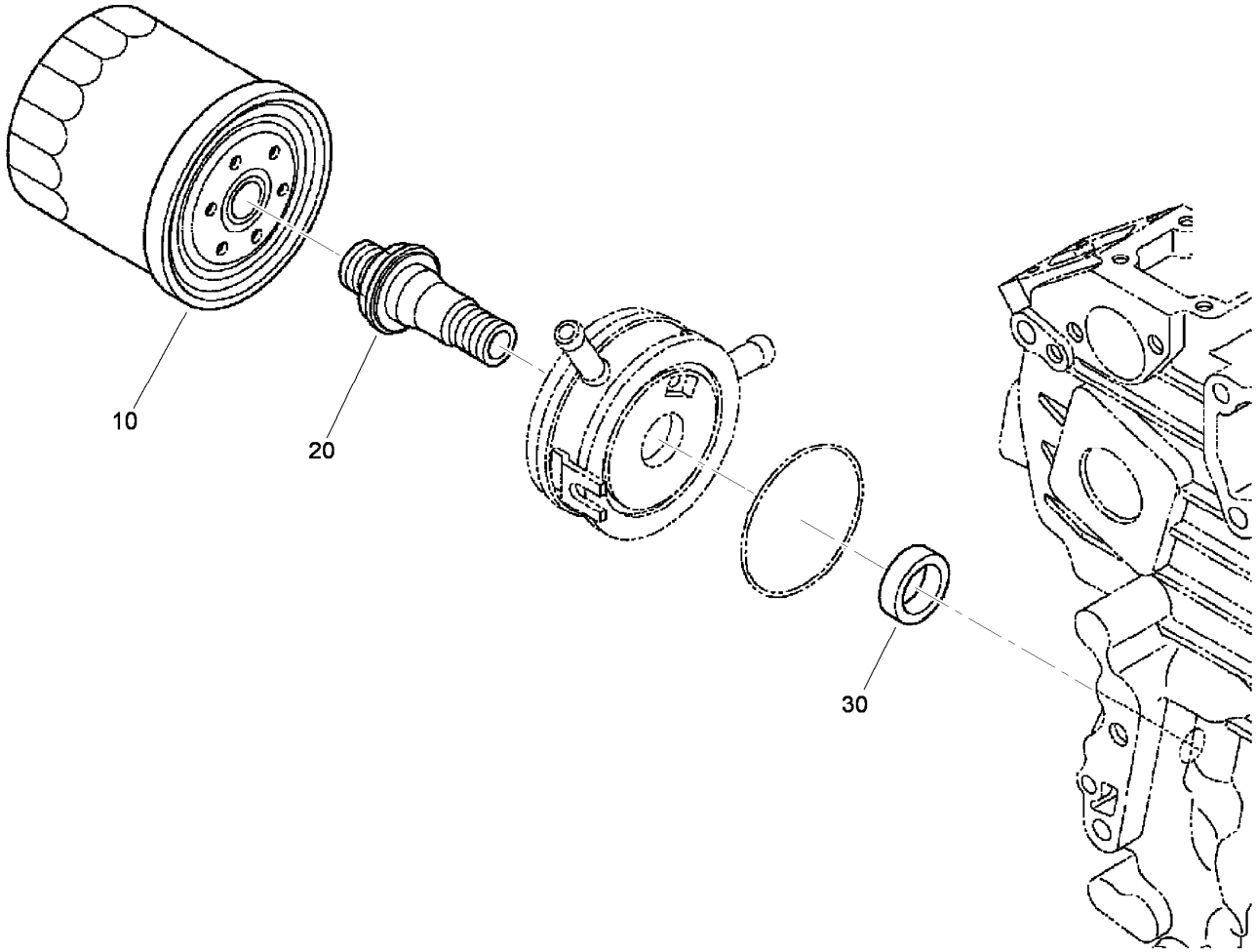
Gear Case Assembly

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
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



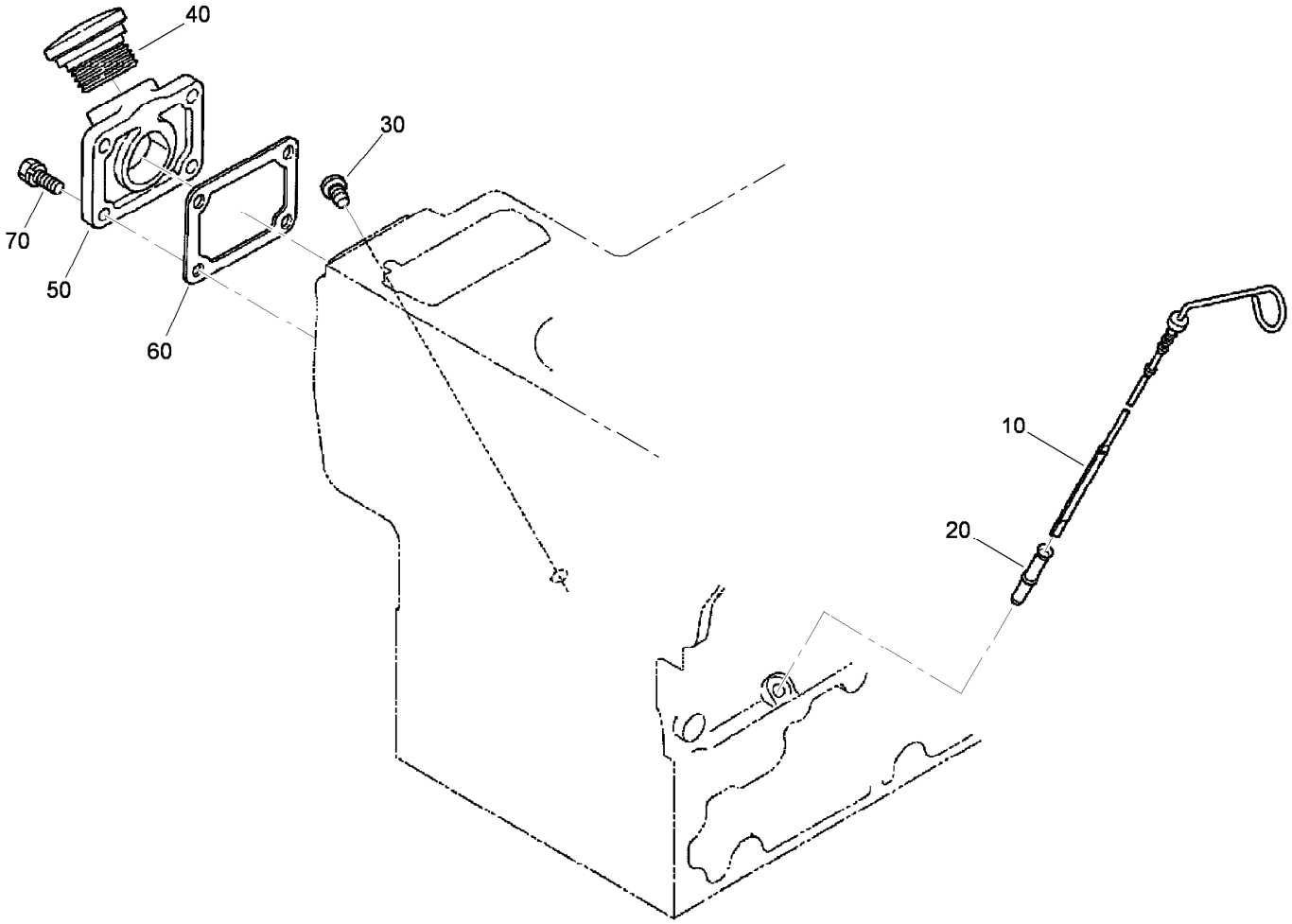
Cylinder Head Cover Assembly

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
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



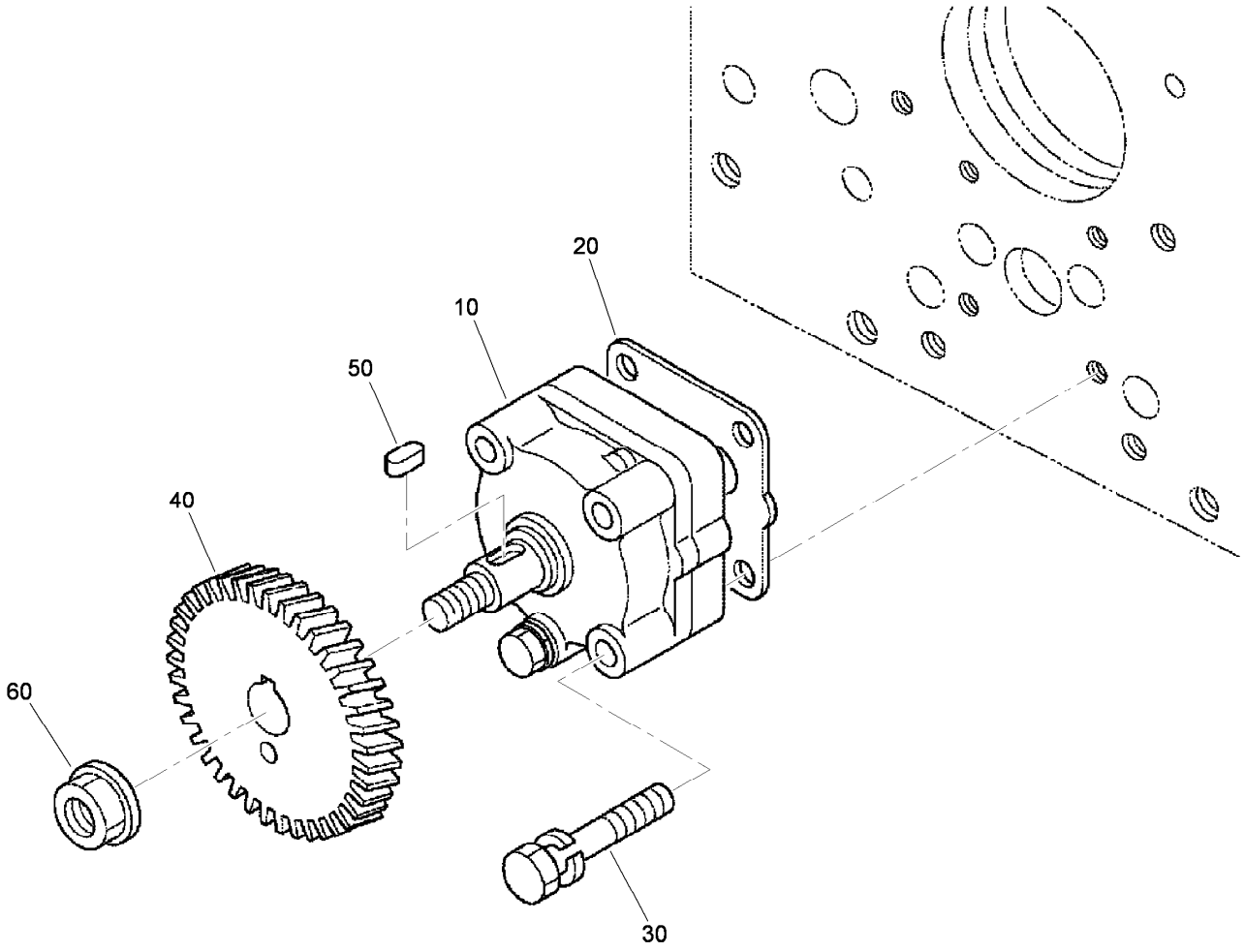
Oil Filter Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	115-8527	1	Cartridge-Filter, Oil
20	115-8528	1	Connector
30	115-8529	1	Collar



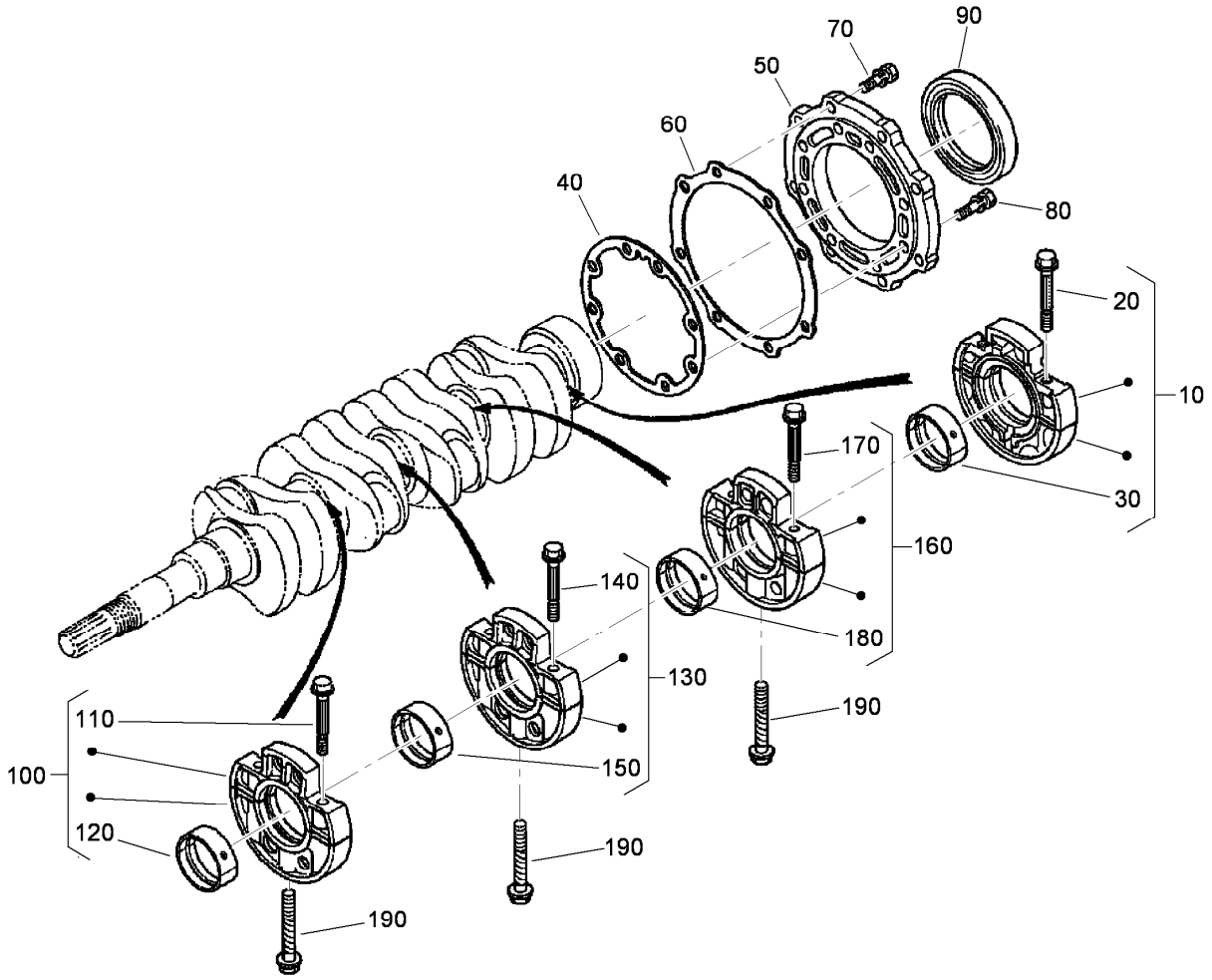
Dipstick and Guide Assembly

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

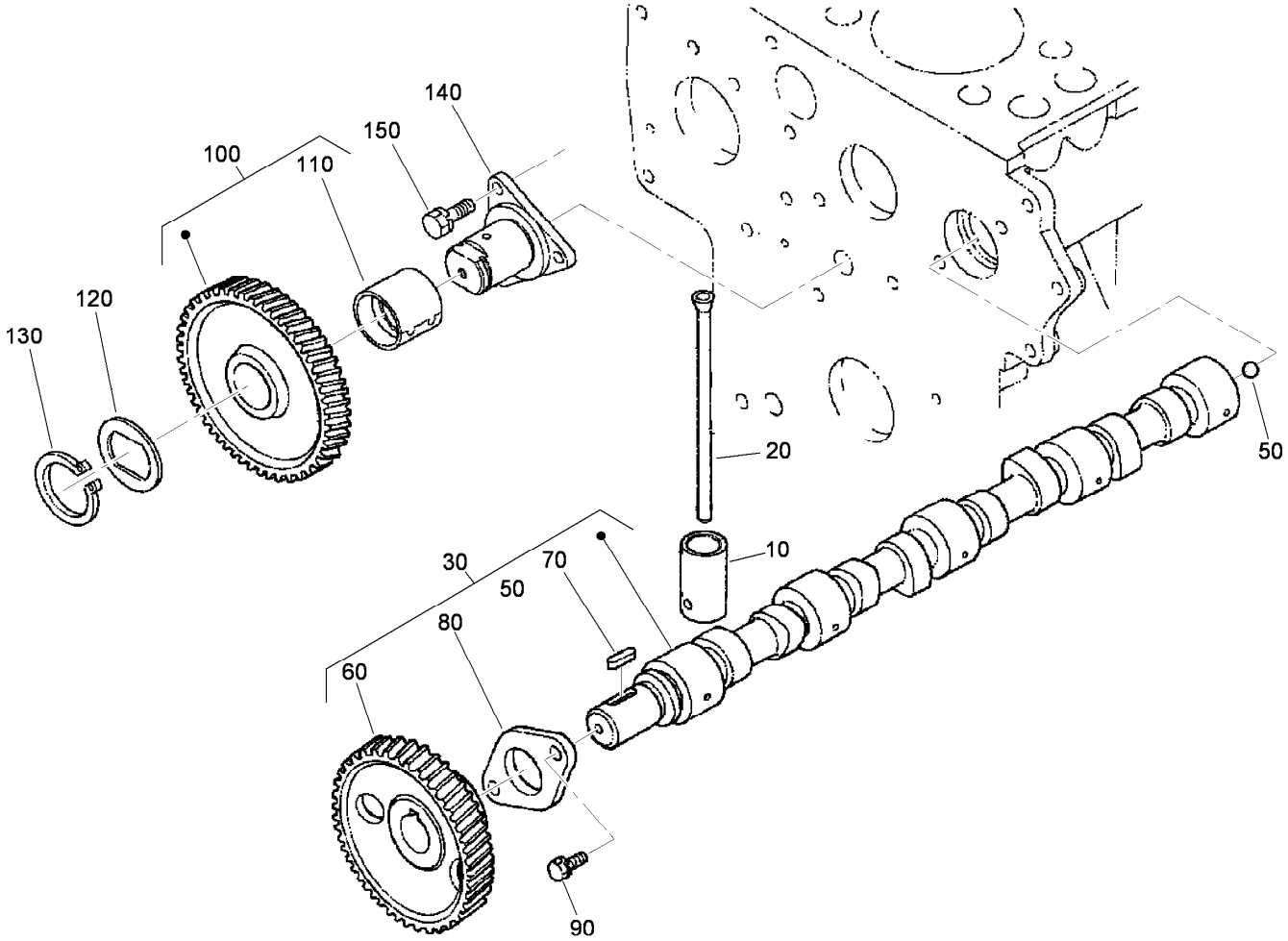
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7512	1	Oil Pump ASM
20	98-7513	1	Gasket-Pump, Oil
30	105-3797	4	Bolt
40	115-8533	1	Gear-Drive, Oil Pump
50	98-7517	1	Key-Feather
60	98-7518	1	Nut-Flange



Main Bearing Case Assembly

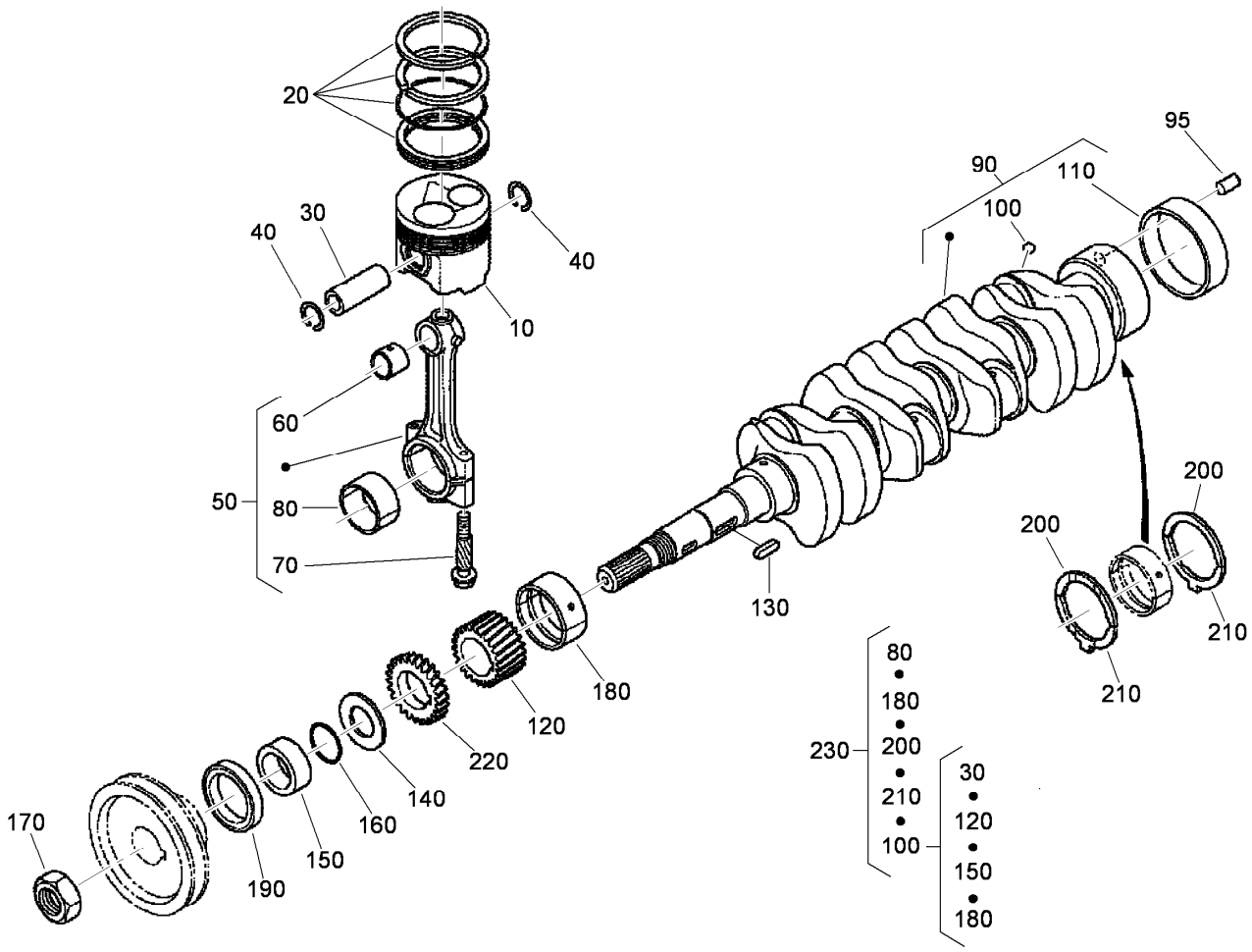
Ref.	Part Number	Qty.	Description
10	115-8534	1	Wheel Bearing Case ASM
20	108-7066	2	Bolt-Case, Bearing
30	108-7068	1	Metal-Crankshaft (-0.20Mm)
30	108-7067	1	Metal-Crankshaft (STD)
30	108-7069	1	Metal-Crankshaft (-0.40Mm)
40	108-7070	1	Gasket-Case, Bearing
50	108-7071	1	Cover-Case, Bearing
60	98-7437	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	108-7069	1	Metal-Crankshaft (-0.40Mm)
120	108-7068	1	Metal-Crankshaft (-0.20Mm)
120	108-7067	1	Metal-Crankshaft (STD)
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

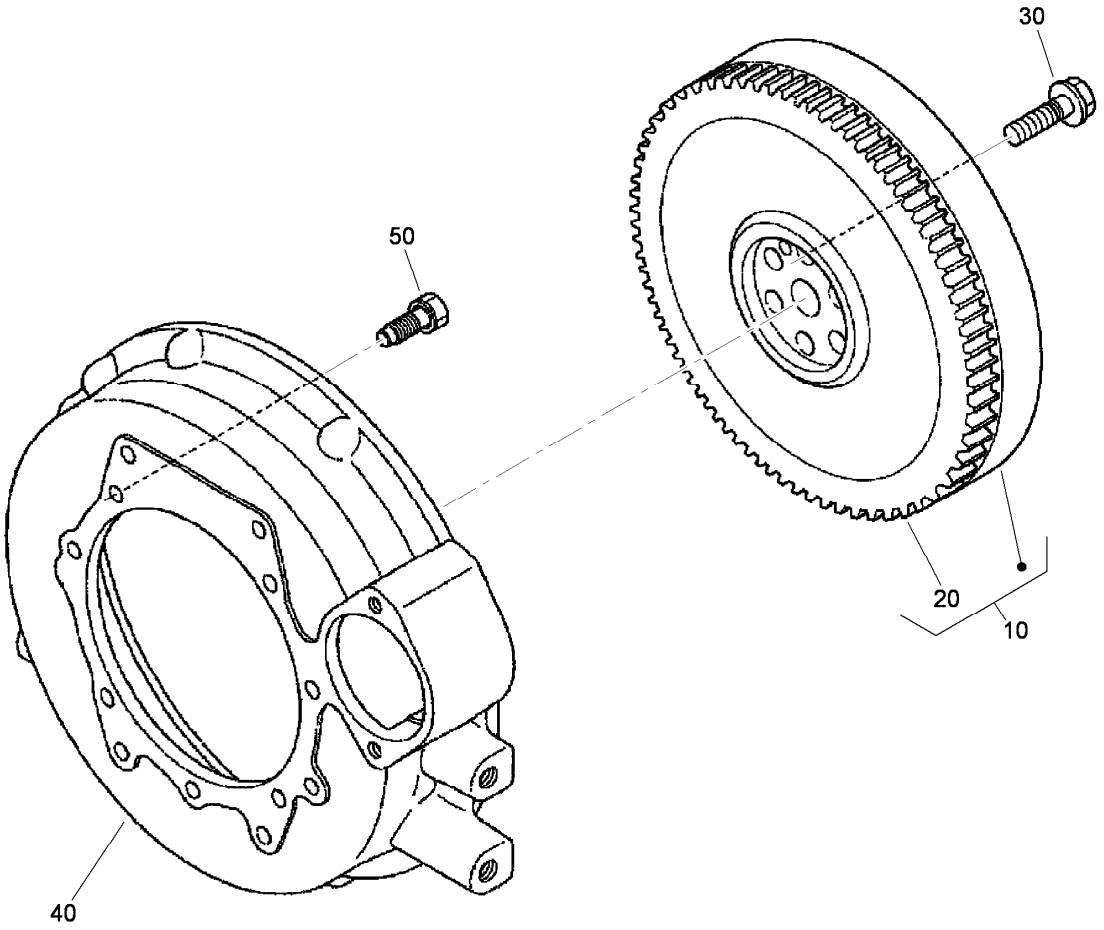
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7445	8	Tappet
20	115-8537	8	Rod-Push
30	115-8538	1	Camshaft ASM
50	110-3729	1	Ball
60	115-8539	1	Gear-Cam
70	98-7451	1	Key-Feather
80	98-7452	1	Stopper-Camshaft
90	98-7453	2	Bolt
100	107-0109	1	Gear-Idler
110	107-0110	1	Bushing-Gear, Idler
120	107-0111	1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



Piston and Crankshaft Assembly

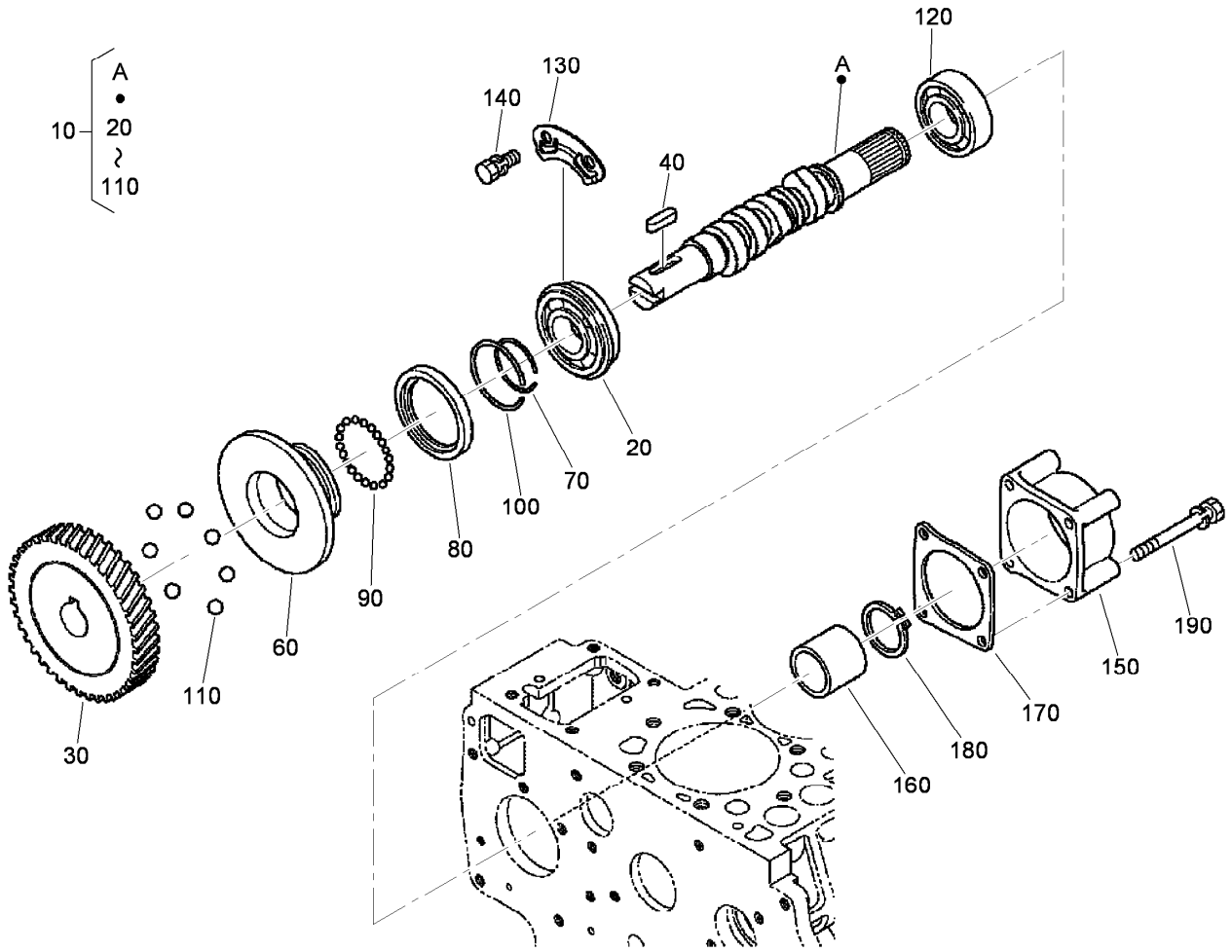
Ref.	Part Number	Qty.	Description
10	115-8540	4	Piston
10	115-8541	4	Piston
20	115-8543	1	Piston Ring ASM
20	115-8542	4	Piston Ring ASM
30	115-8544	4	Pin-Piston
40	112-7002	8	Circlip
50	115-8545	4	Connecting Rod ASM
60	115-8546	4	Bushing-Pin, Piston
70	98-7468	8	Bolt-Rod, Connecting
80	98-7469	4	Metal-Crankpin (STD)
80	115-8548	4	Metal-Crankpin (-0.40Mm)
80	115-8547	4	Metal-Crankpin (-0.20Mm)
90	115-8549	1	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)



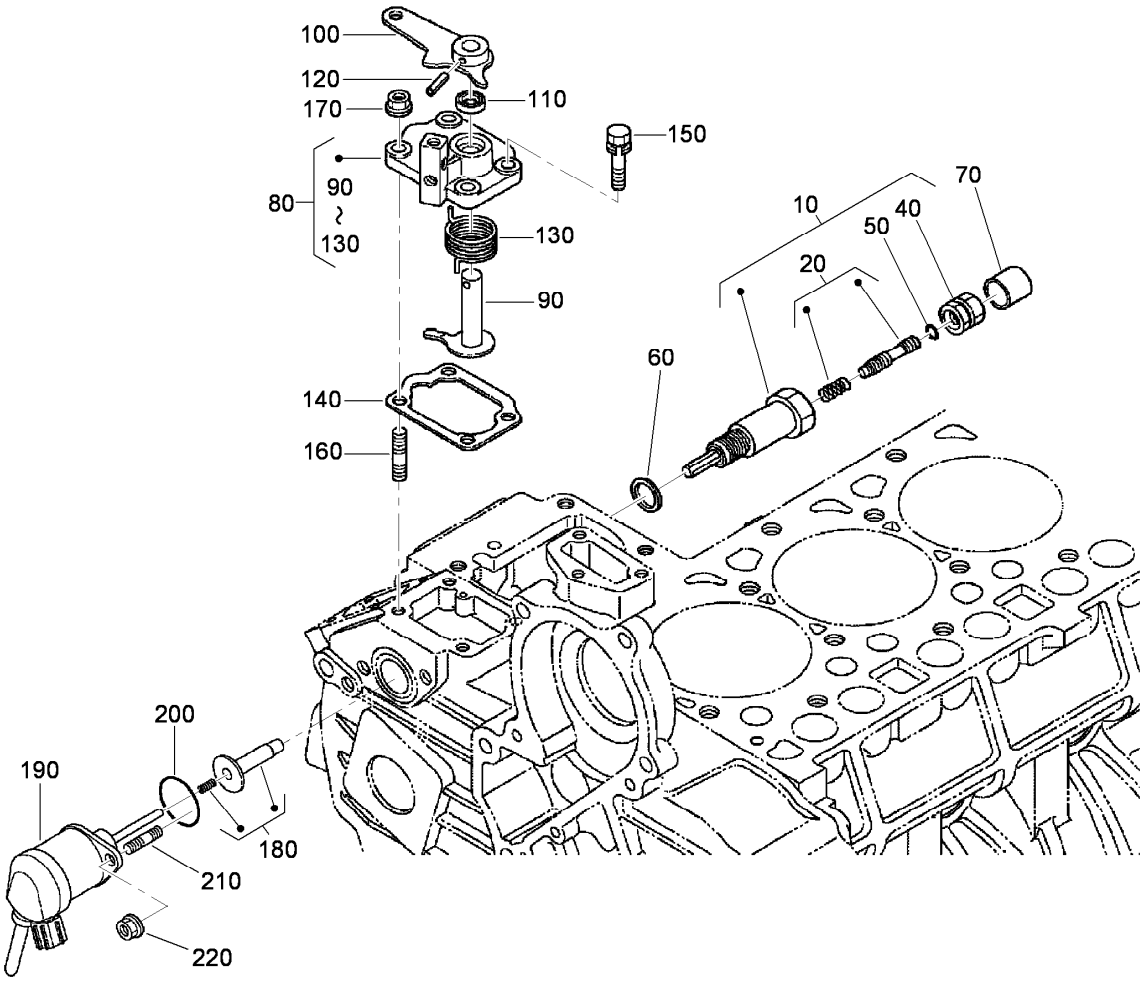
Flywheel Assembly

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



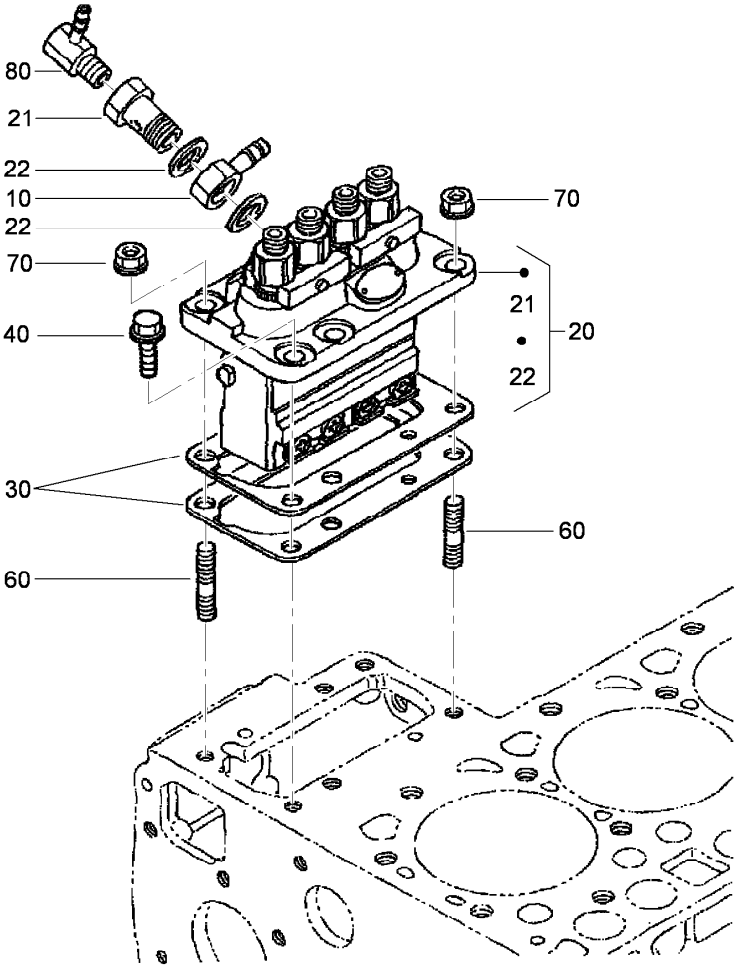
Fuel Camshaft and Governor Shaft Assembly

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
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



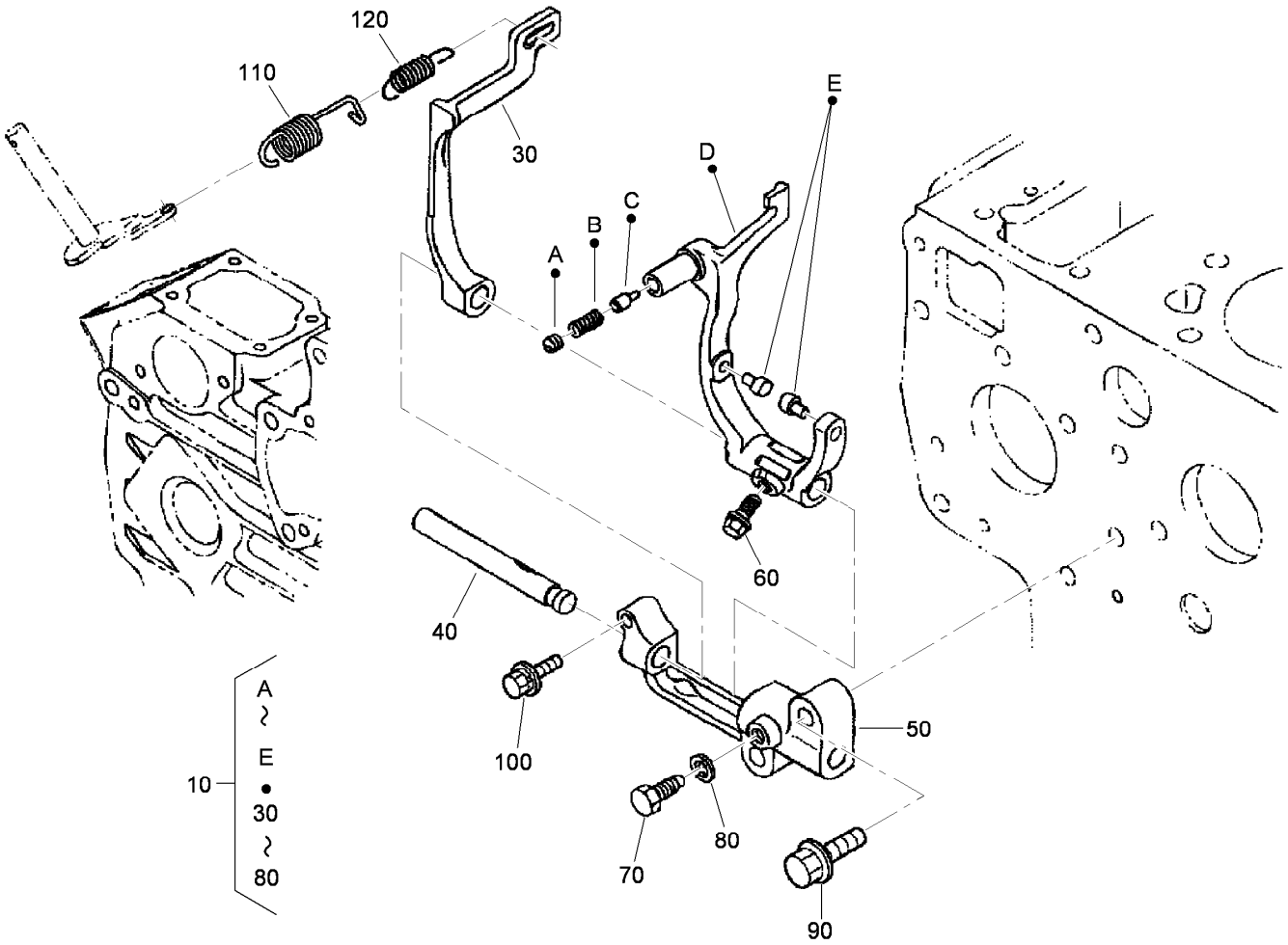
Idle Apparatus and Stop Solenoid Assembly

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
130	115-8577	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



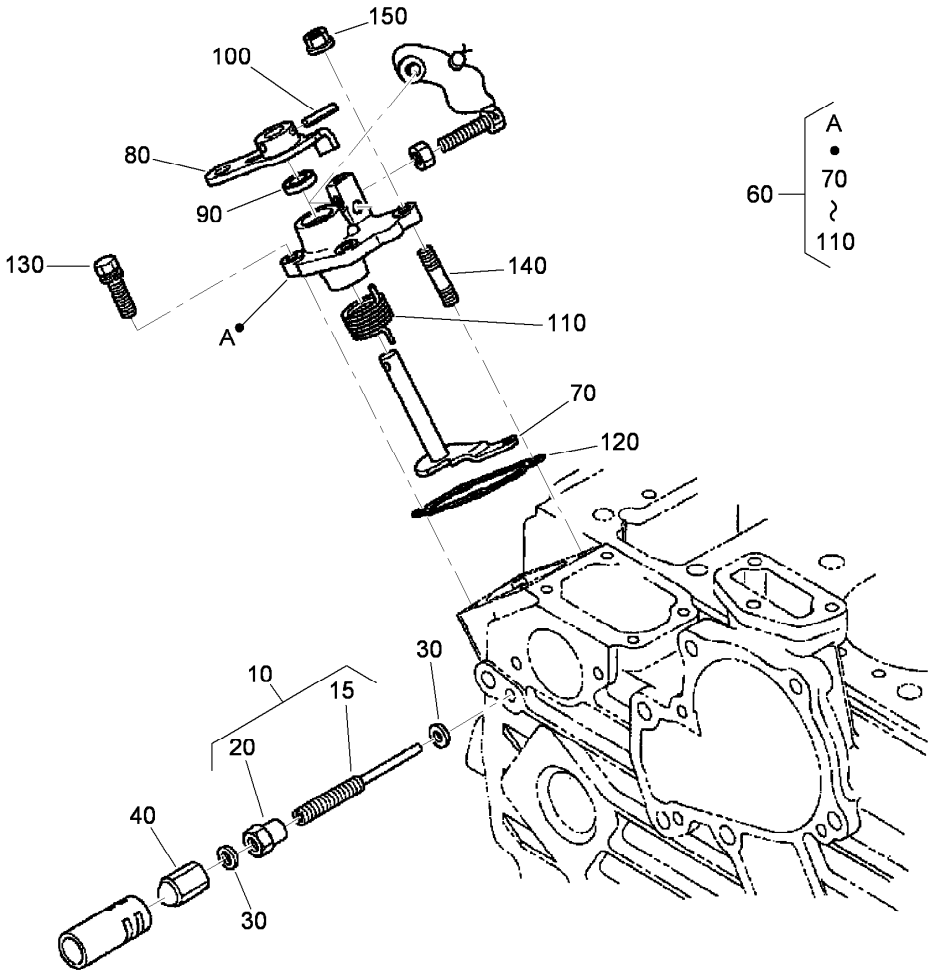
Injection Pump Assembly

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
70	112-2492	2	Nut-Flange
80	107-4300	1	Orifice ASM



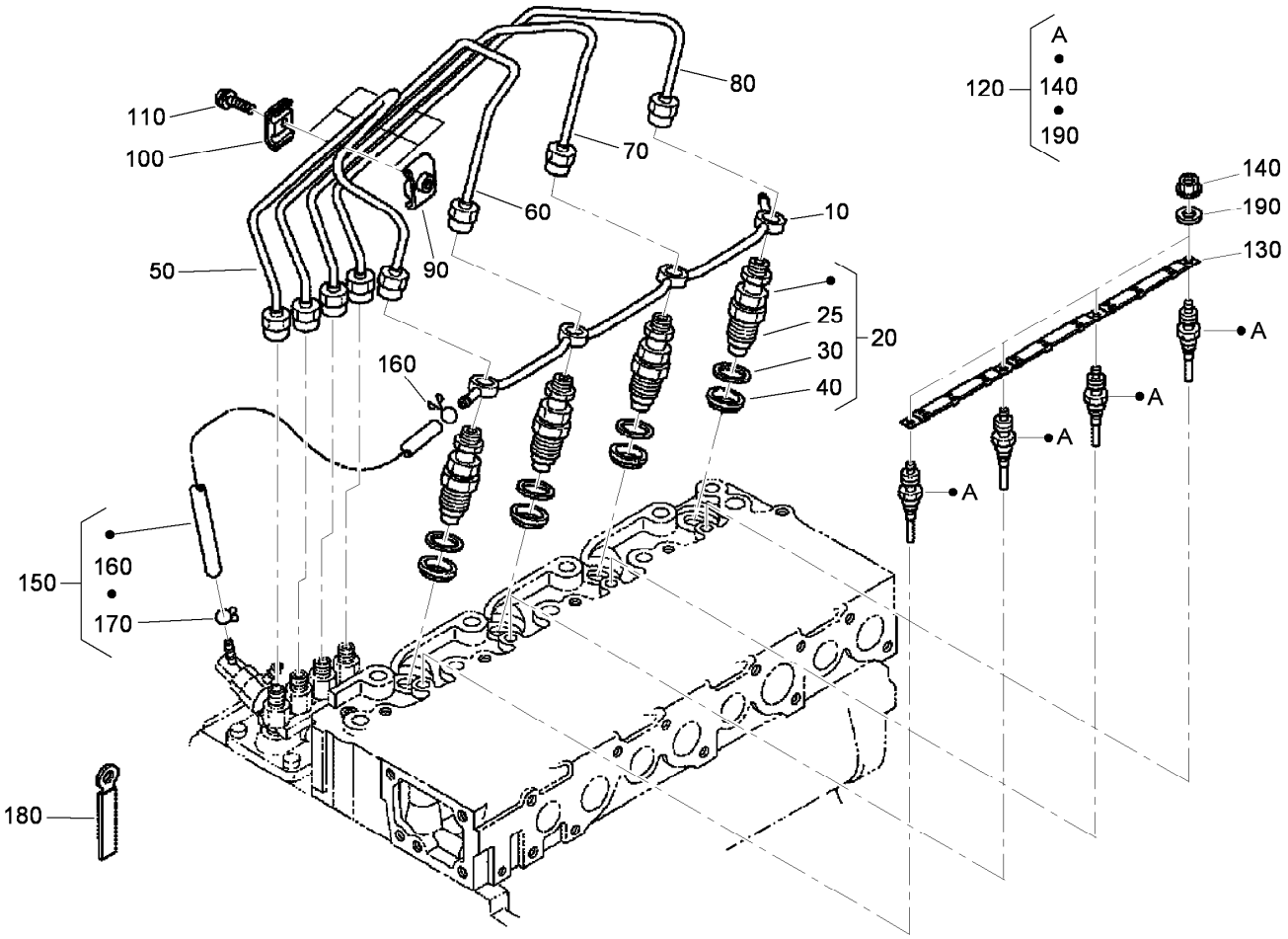
Governor Assembly

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



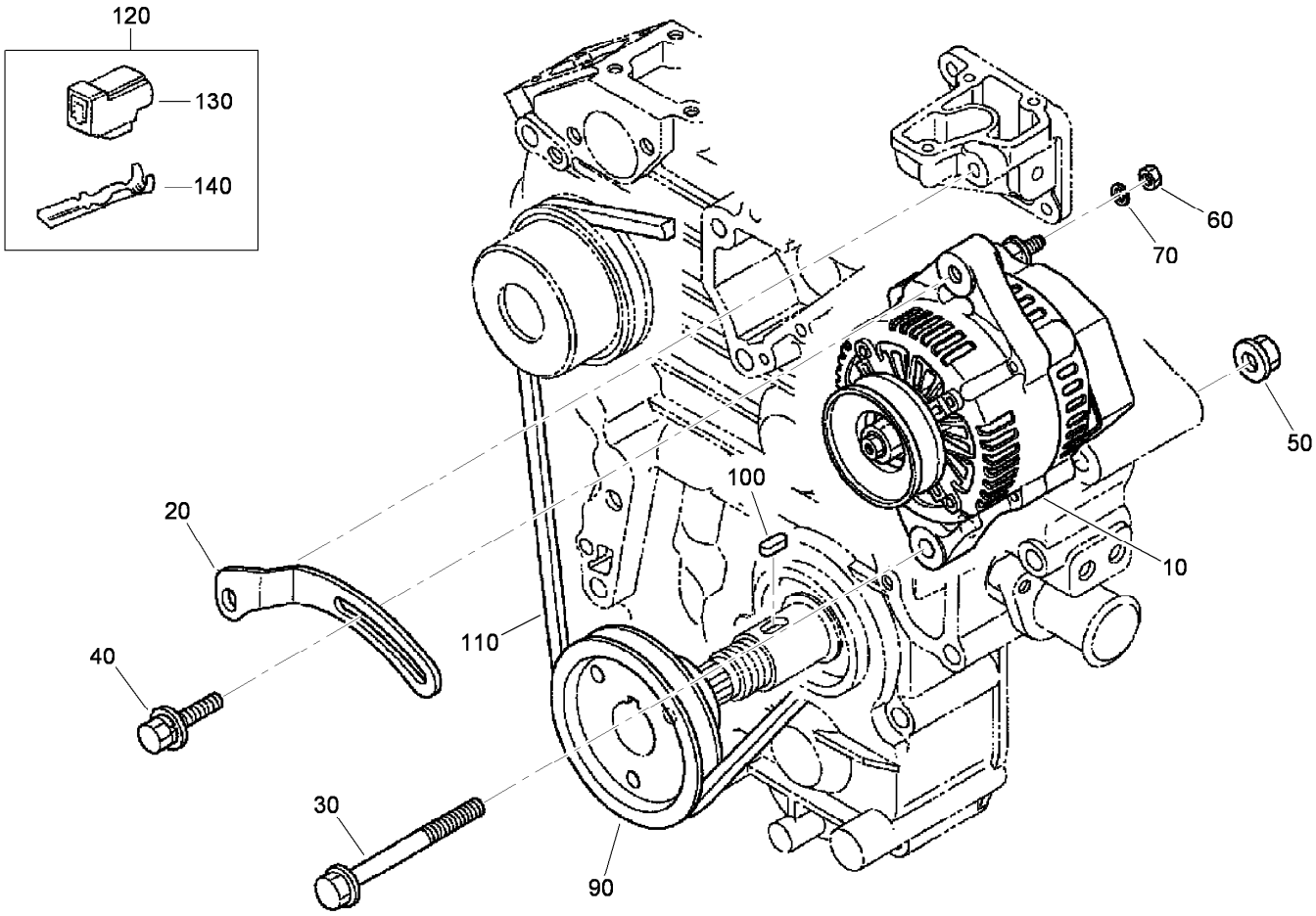
Speed Control Plate Assembly

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



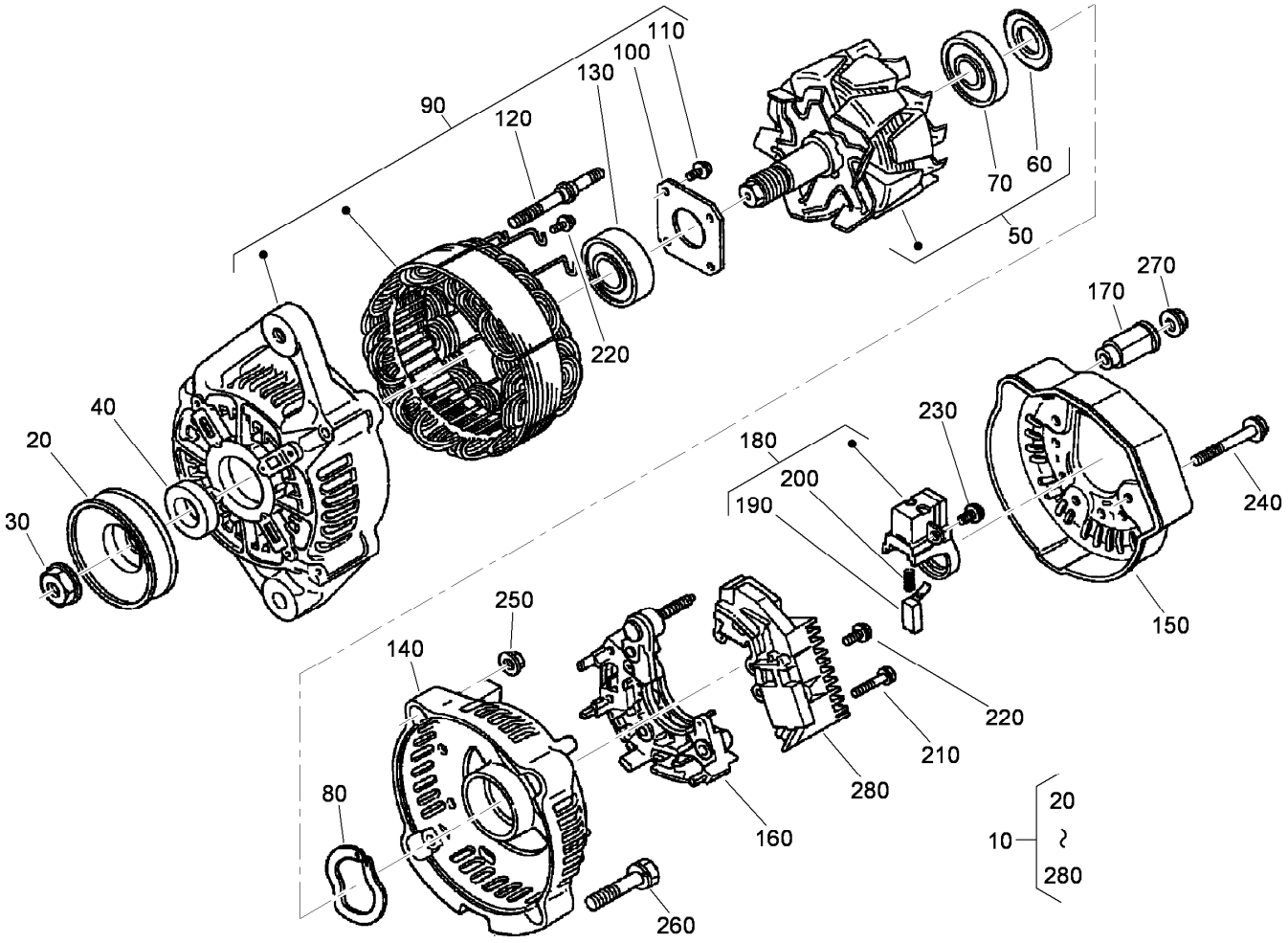
Nozzle Holder and Glow Plug Assembly

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
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



Alternator and Pulley Assembly

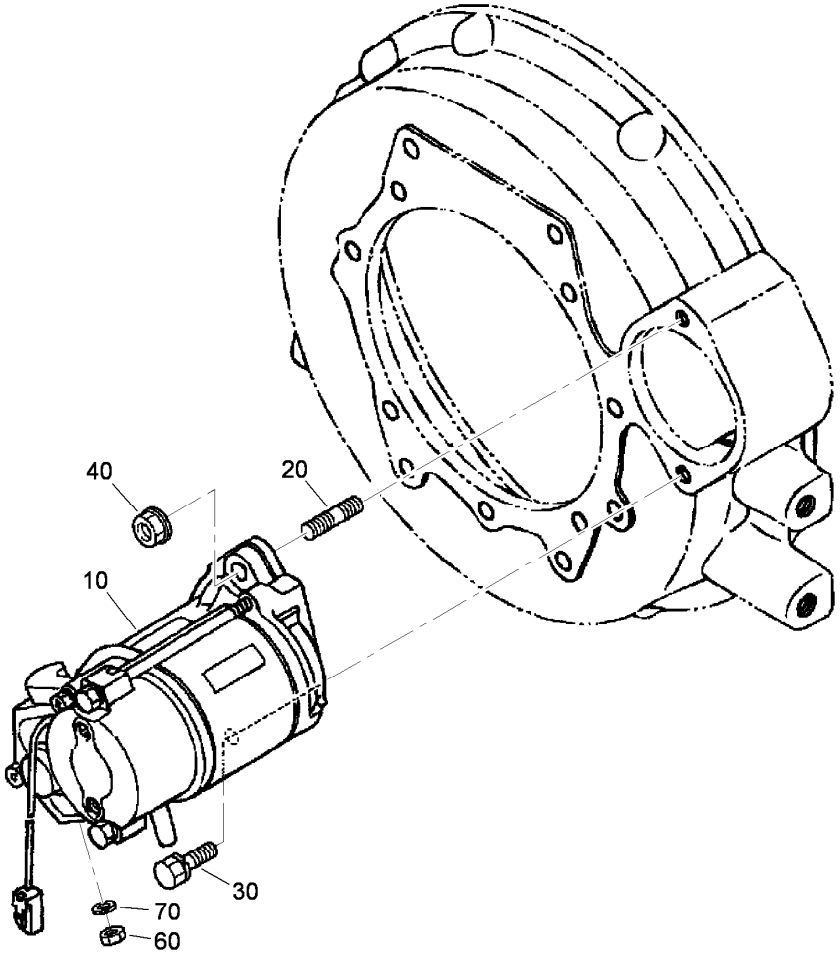
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7693	1	Alternator ASM
20	105-2872	1	Bracket-Alternator
30	115-8596	1	Bolt-Flange
40	108-7088	1	Bolt
50	115-8597	1	Nut-Flange
60	98-7572	1	Nut
70	98-7699	1	Washer-Spring
90	115-8598	1	Pulley-Drive, Fan
100	98-7451	1	Key-Feather
110	115-8599	1	Belt-V
120	115-8600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



Alternator Component Part Assembly

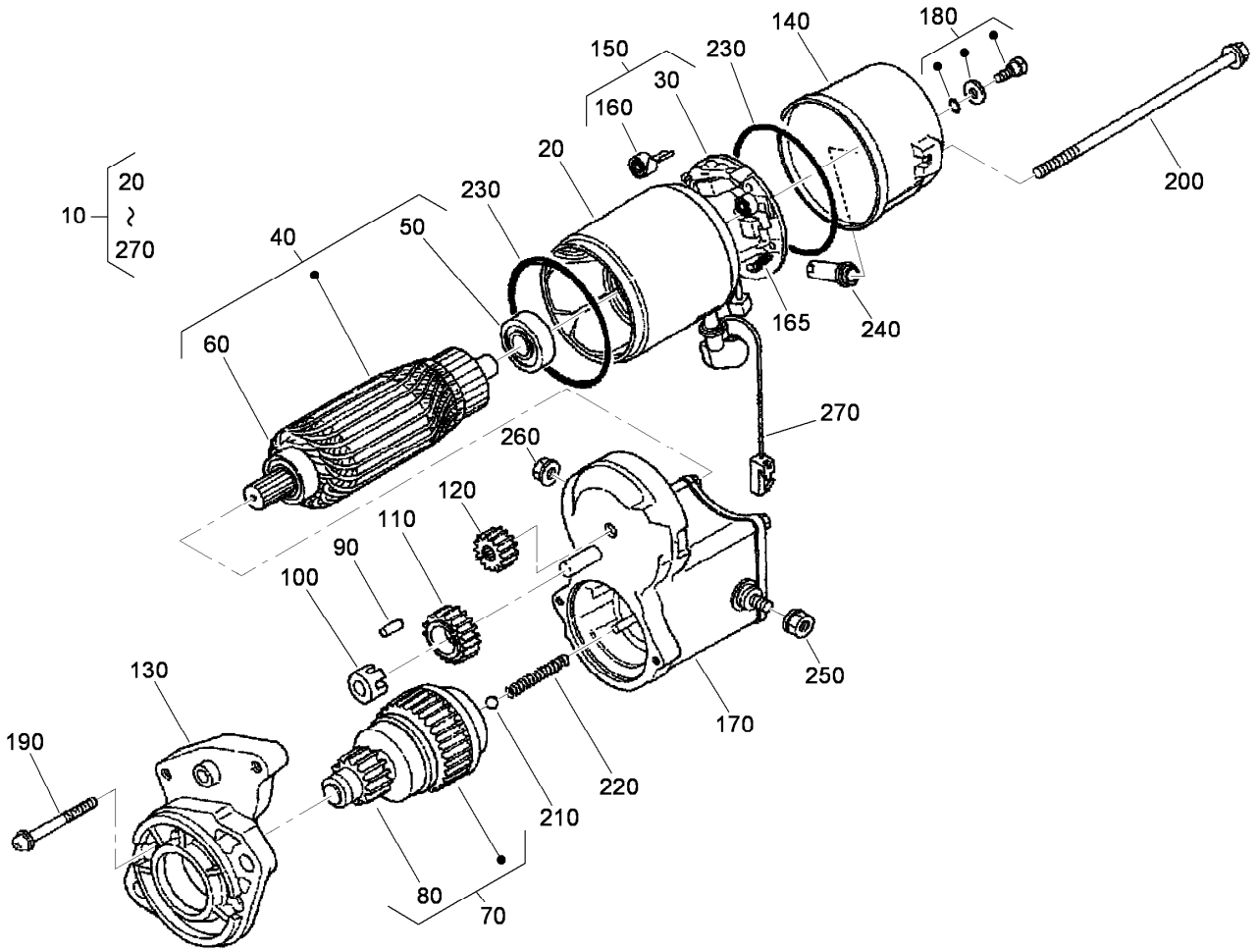
Ref.	Part Number	Qty.	Description
10	98-7693	1	Alternator ASM
20	98-7707	1	Pulley-Alternator
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	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

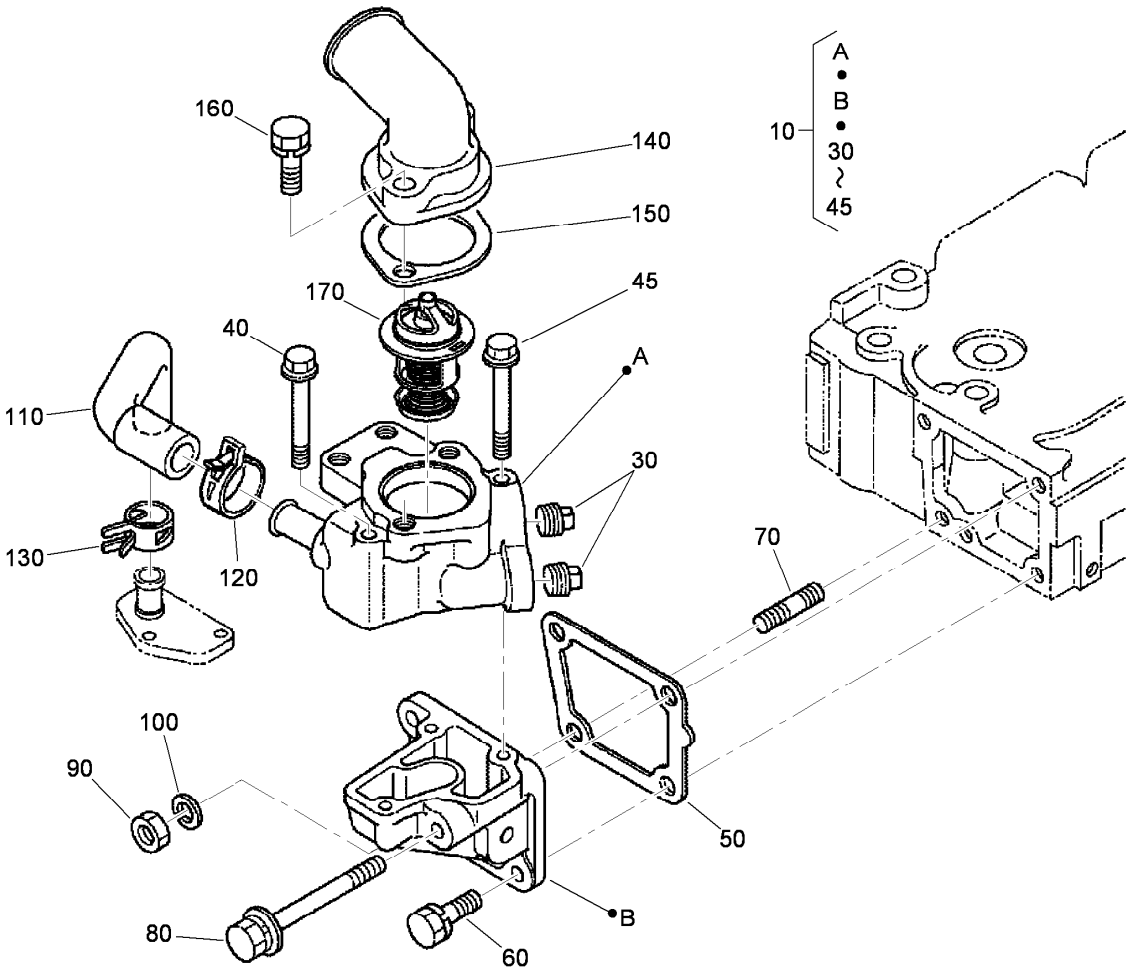
Ref.	*Part Number*	*Qty.*	*Description*
10	115-8603	1	Starter ASM
20	98-7735	1	Stud
30	98-7736	1	Bolt
40	115-8597	1	Nut-Flange
60	98-7739	1	Nut
70	105-2893	1	Washer-Spring



Starter Components Assembly

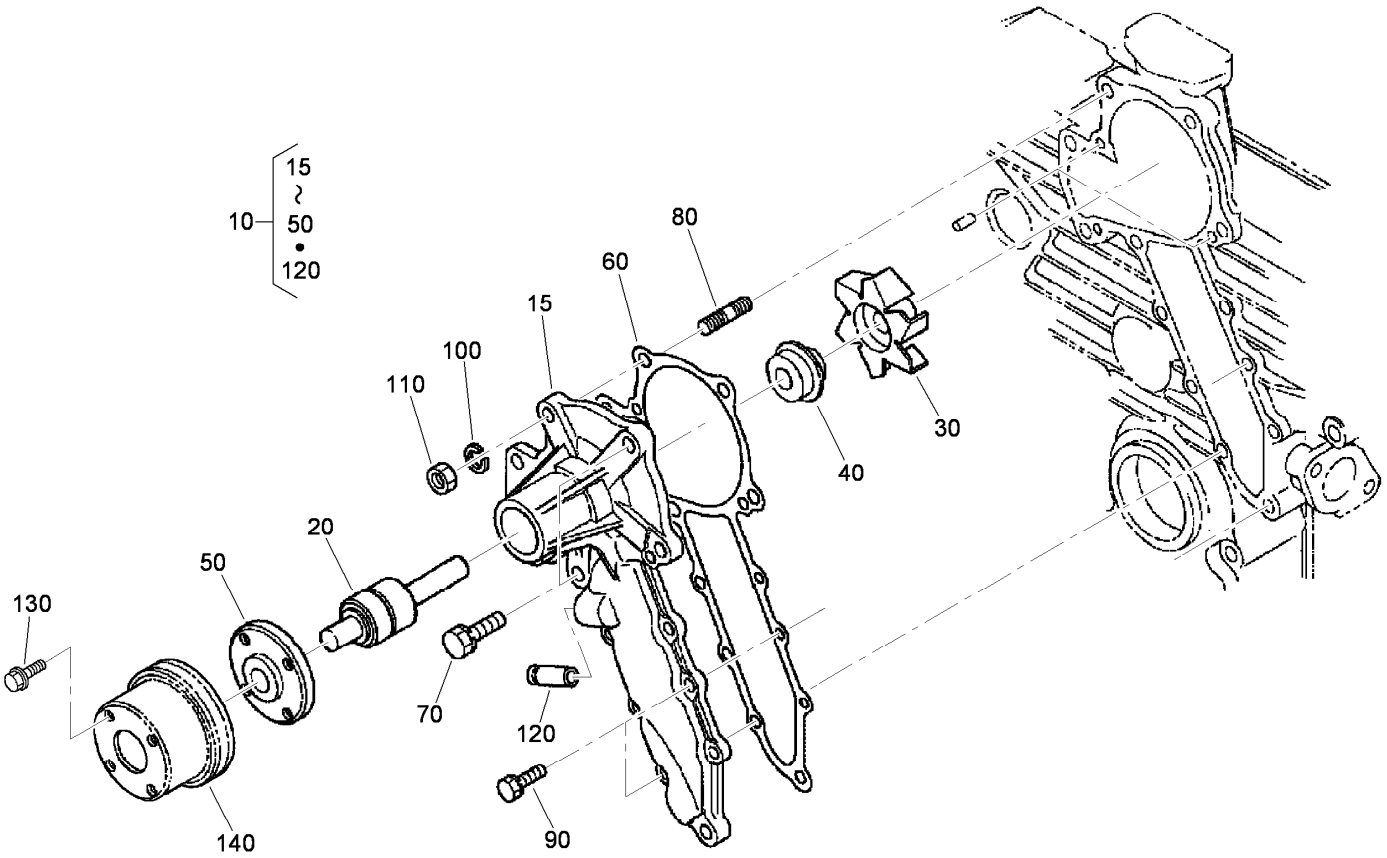
Ref.	Part Number	Qty.	Description
10	115-8603	1	Starter ASM
20	115-8604	1	Yoke
30	115-8605	1	Brush Kit
40	115-8606	1	Armature
50	115-8607	1	Bearing
60	98-7744	1	Bearing
70	115-8608	1	Clutch-Running, Over
80	112-2833	1	Gear-Pinion
90	98-9707	5	Roller
100	98-7752	1	Retainer
110	98-7751	1	Gear
120	115-8609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



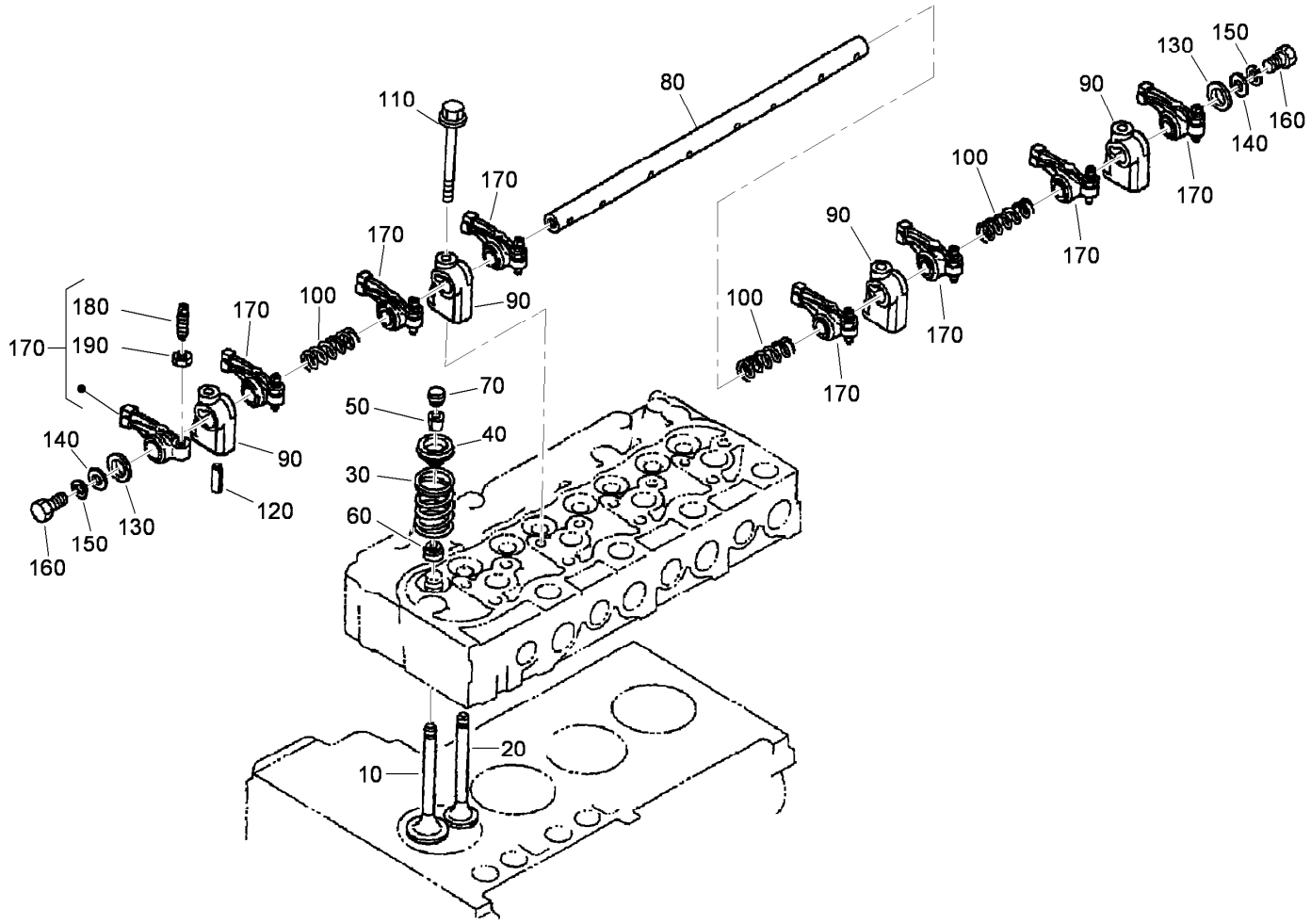
Water Flange and Thermostat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-4578	1	Water Flange ASM
30	105-2874	2	Plug
40	105-2875	2	Bolt-Flange
40	105-2875	3	Bolt-Flange
45	107-0117	1	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
80	107-0115	1	Bolt
90	98-7534	1	Nut
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



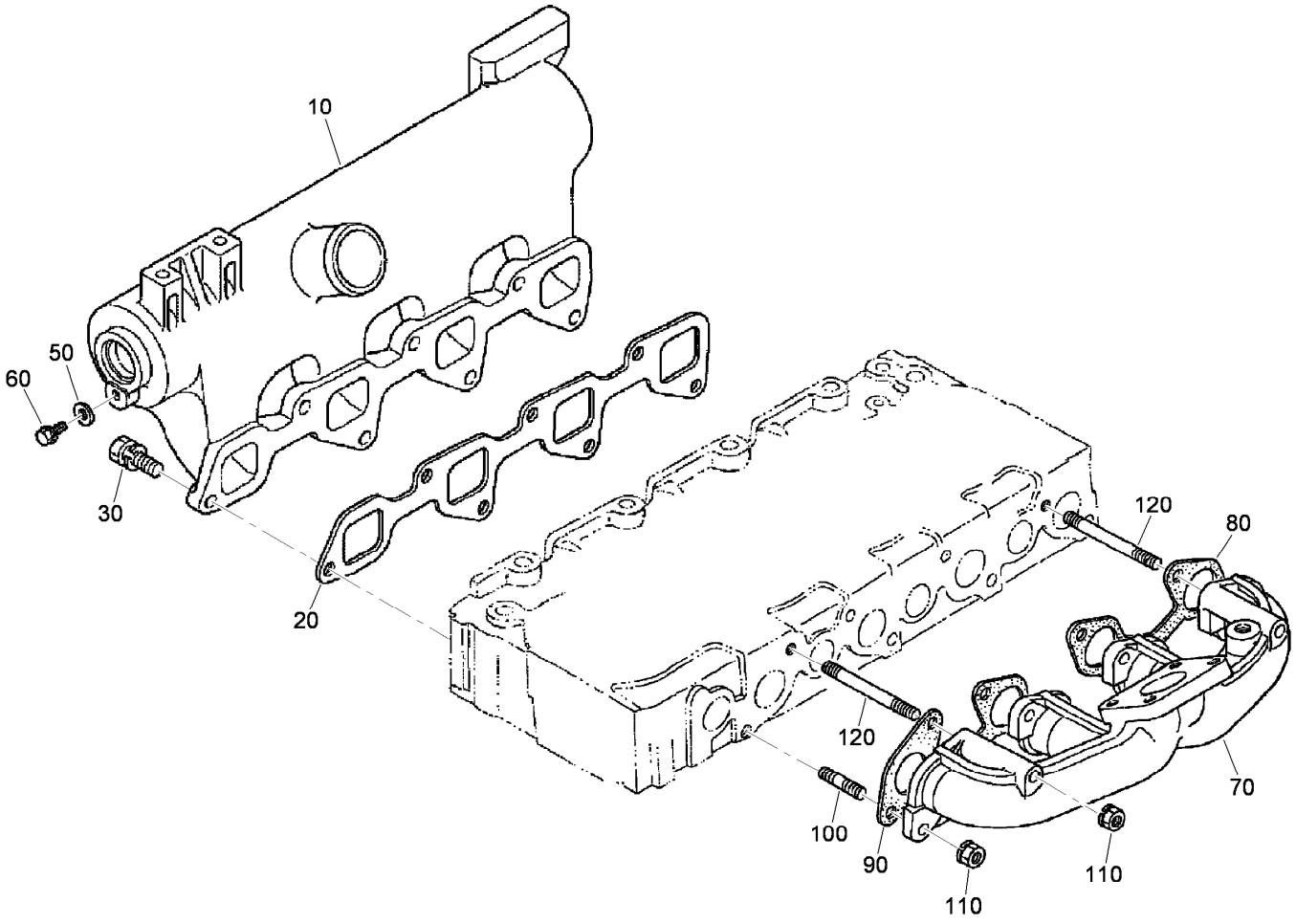
Water Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	115-8622	1	Water Pump ASM
15	115-8623	1	*obs* Body-Pump, Water
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



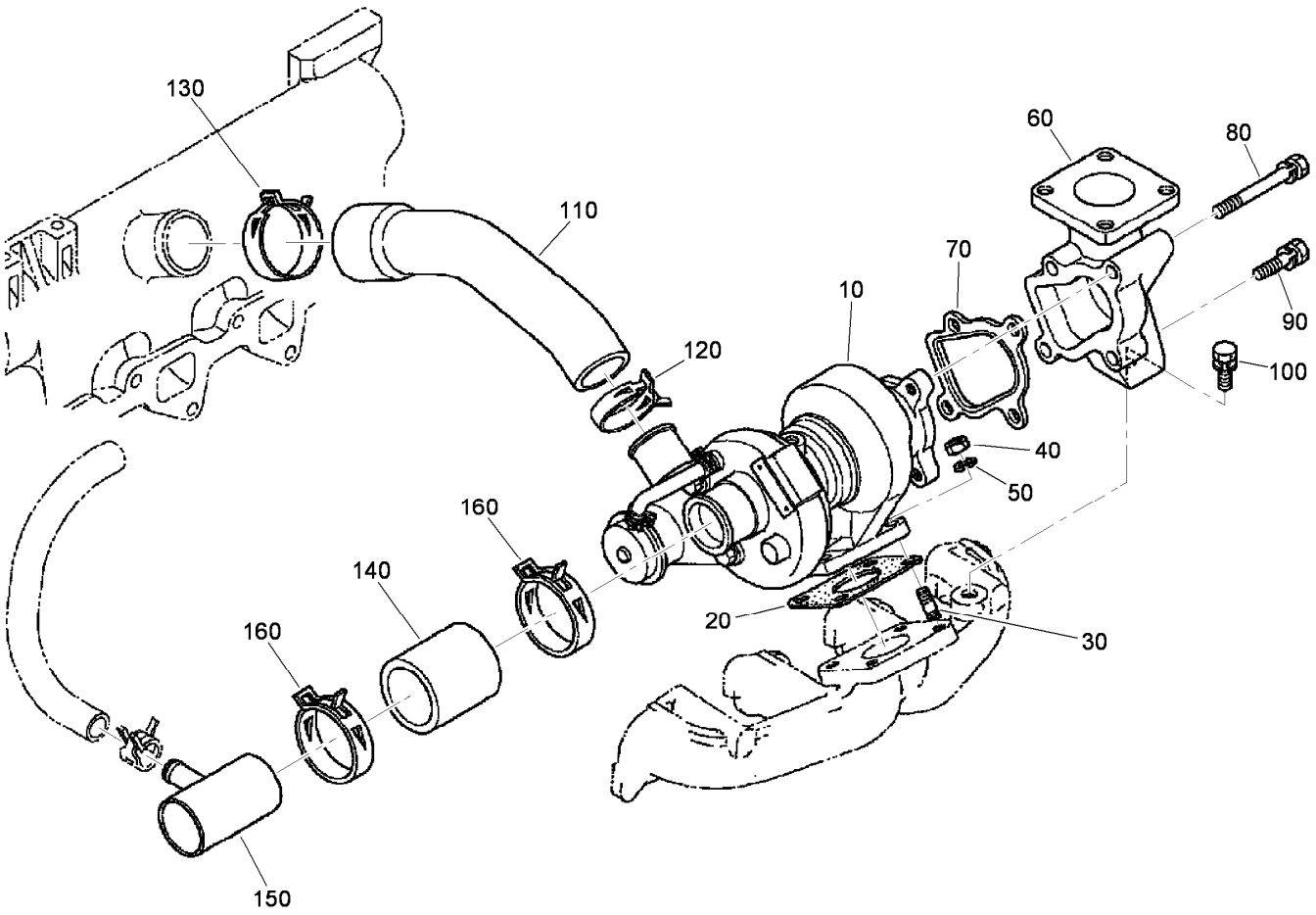
Valve and Rocker Arm Assembly

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
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



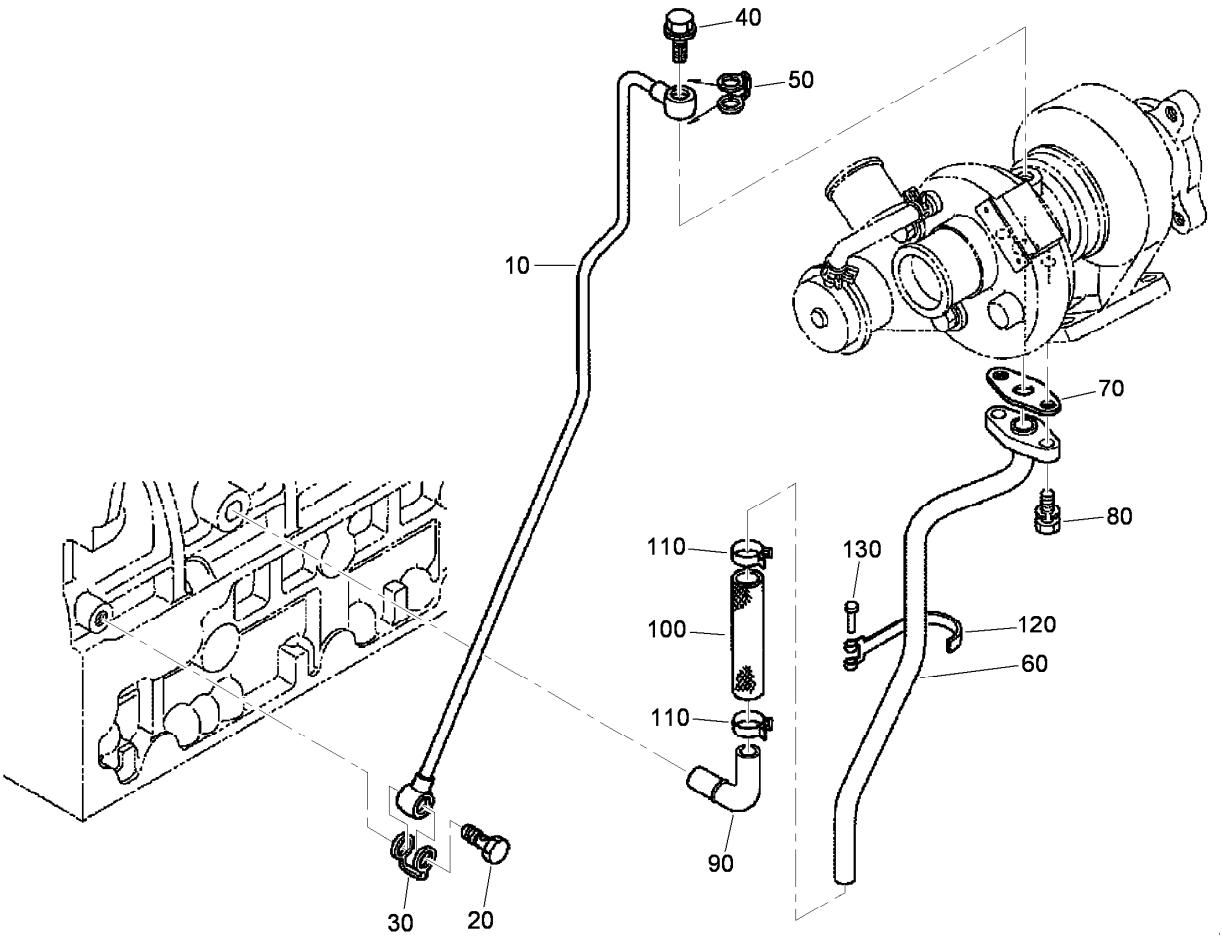
Inlet and Exhaust Manifold Assembly

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
110	100-9288	8	Nut
120	100-9289	2	Stud



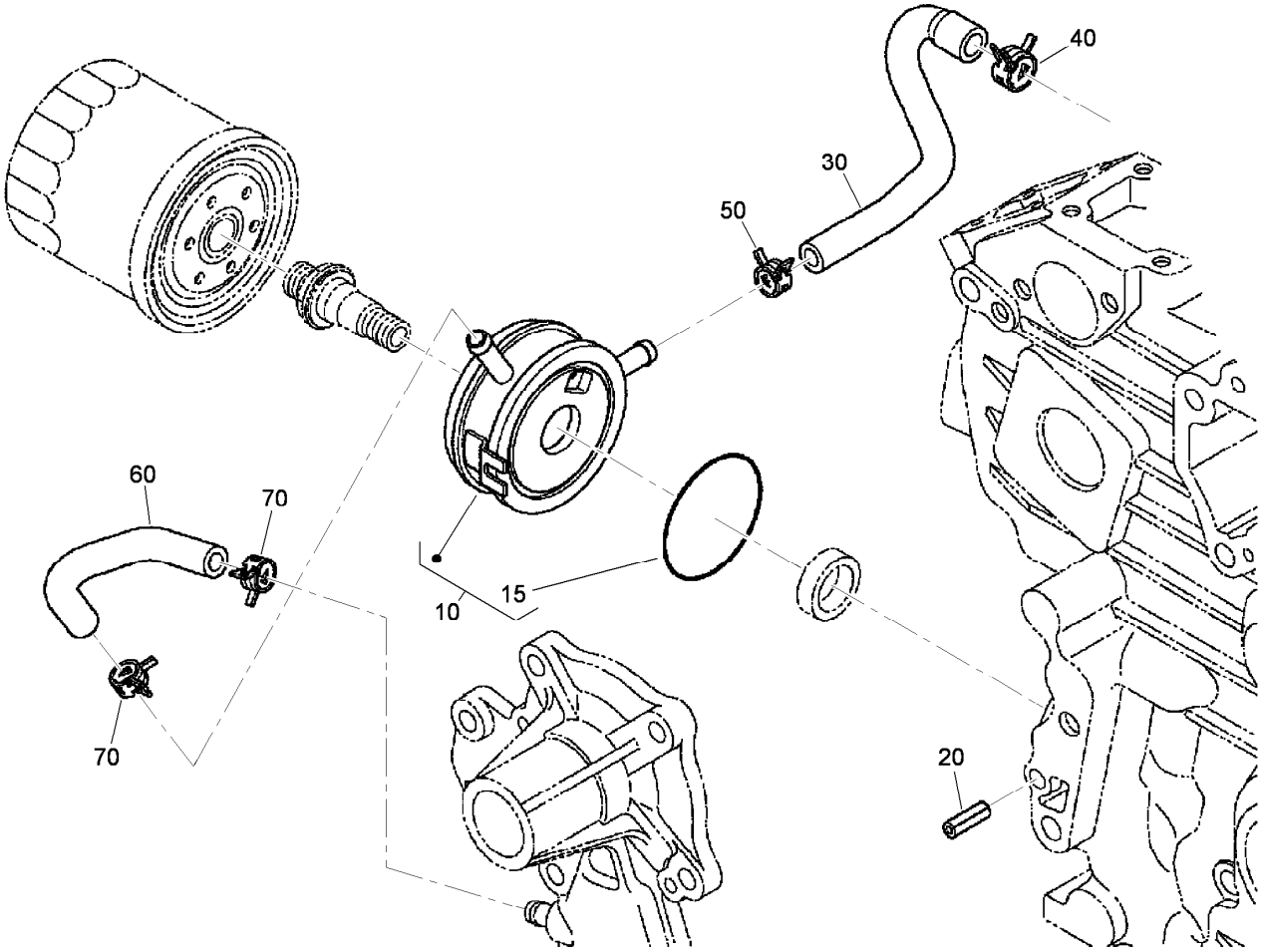
Turbo Charger Assembly

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
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



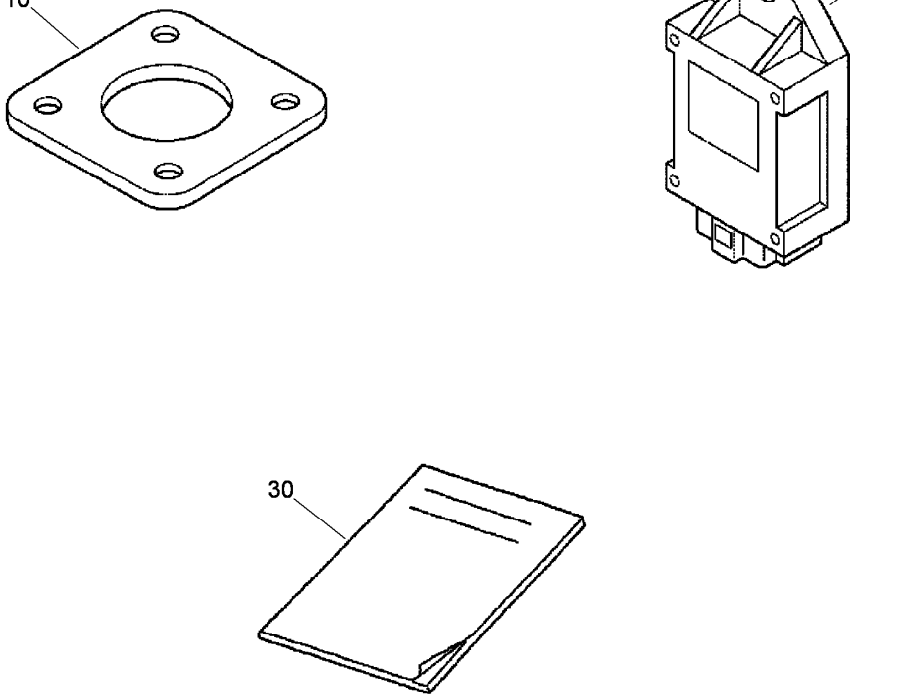
Oil Pipe (Turbo Charger) Assembly

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



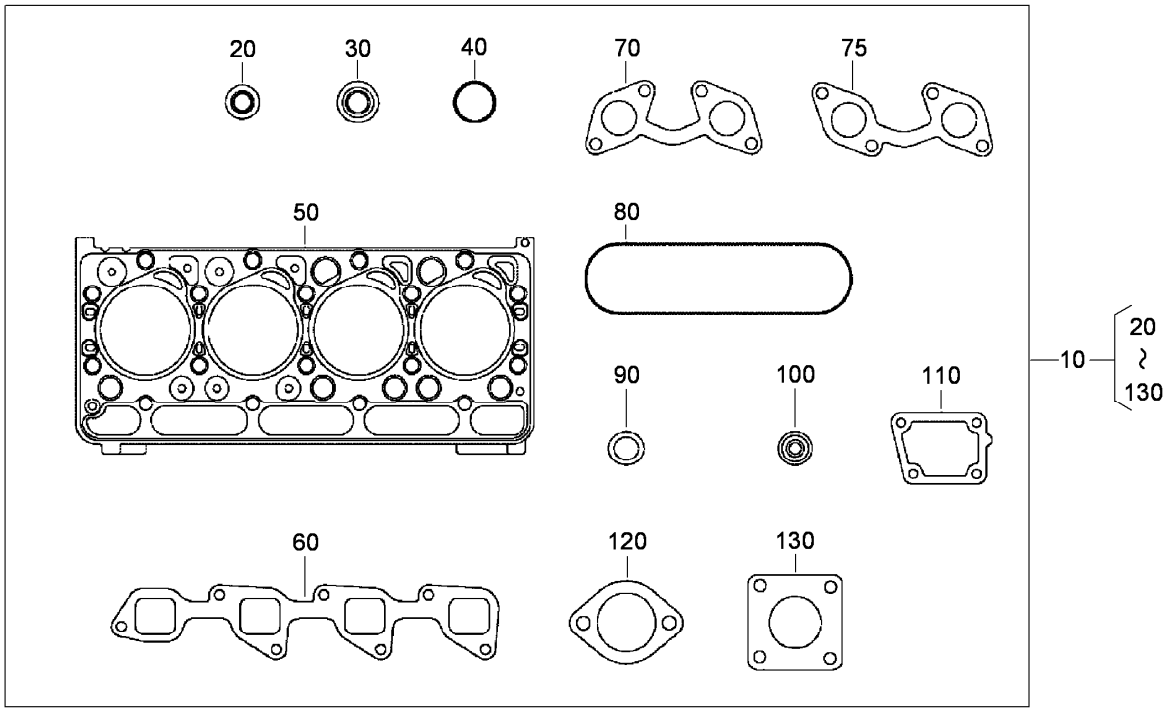
Oil Cooler Assembly

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



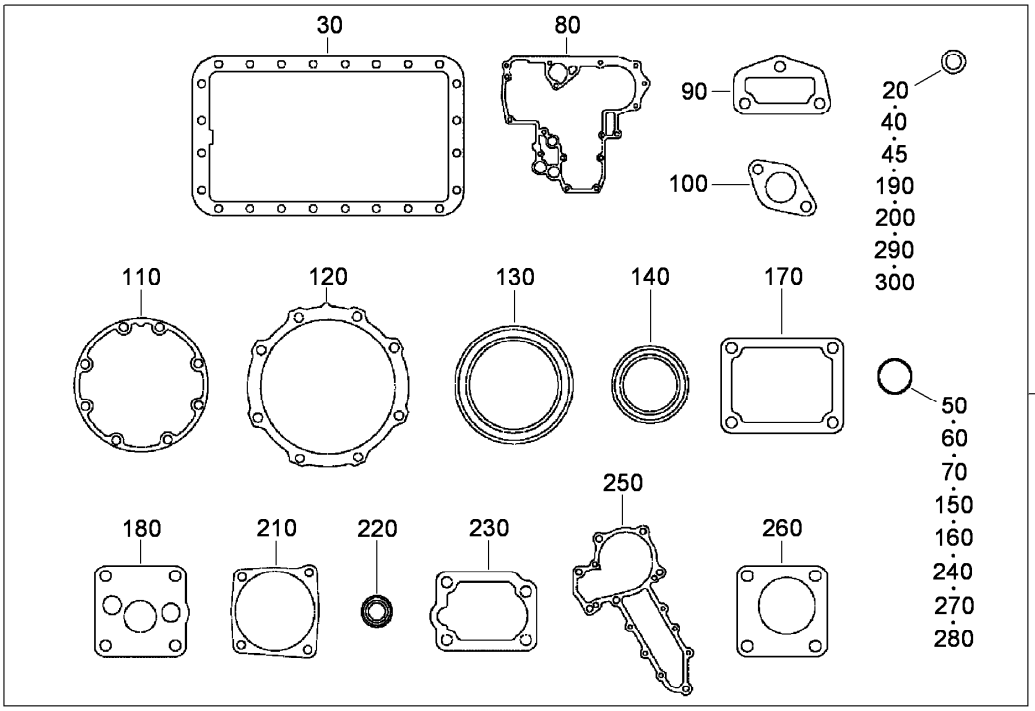
Muffler Gasket, Glow Controller and Operator Manual

Ref.	*Part Number*	*Qty.*	*Description*
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
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 30857 Groundsmaster 4500-D Traction Unit

Product Name	Model/Part
Blade-Lift, High	104-5183
Blade-Angle Sail	105-9810-03
Blade-Atomic	107-0235-03
Blade-Combo	108-9026-03
90 Amp Alternator Kit	115-8473
27in Rotary Cutting Unit	30834
Leaf Mulching Kit	30836
Diagnostic Display Box	85-4750

Notes:

Notes:



Count on it.