Form No. 3356-631 Rev D

TORO®

Count on it.

Parts Catalog

Groundsmaster® 4700-D

Model No. 30868—Serial No. 270000001 and Up

Ordering Replacement Parts

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

Understanding Reference Numbers

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

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

Service Assembly Reference Numbers

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

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

Reference Numbers Indicating Quantity

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

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

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

Contents

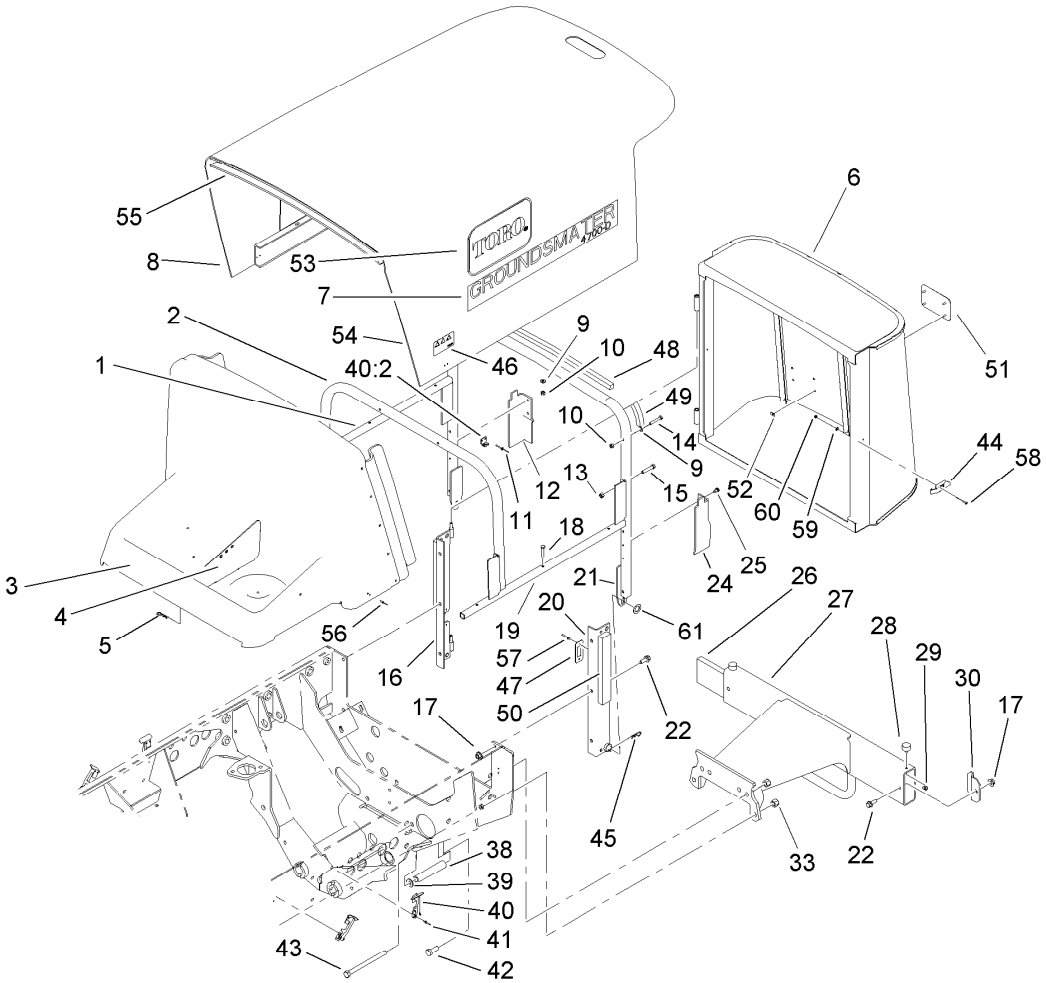
Hood, Screen and Bumper Assembly 5
Steering Tower Assembly 7
Steering Control Assembly No. 114-5074 8
Traction and Brake Pedal Assembly 9
Throttle and Seat Frame Assembly 10
Control Console Assembly 11
Hydraulic Filter and Reservoir Assembly 12
Fuel Tank and Filter Assembly 13
Front Drive and Brake Assembly 14
Planetary Assembly No. 105-4500-03 15
Brake Assembly No. 100-3070-03 16
Piston Motor Assembly No. 105-1218 17
Brake Assembly No. 100-3069-03 18
Manifold Mounting and Fitting Assembly 19
Hydraulic Pump Assembly 20
Triple Pump Assembly No. 105-9845 21
Piston Pump Assembly No. 110-0464 22
Control Assembly No. 108-1503 24
Radiator Assembly 25
Fan and Solenoid Assembly 26
Engine Installation Assembly 27
Air Cleaner Assembly No. 99-5410 28
Rear Axle Assembly 29
Hydraulic Cylinder Assembly No. 107-1976 30
Piston Motor Assembly No. 105-1219 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
Coupler and Adapter Plate Assembly 39
Battery Installation Assembly 40
Water and Fuel Filter Assembly No. 98-9305 41
Front Lift Arm Assembly 42
Hydraulic Cylinder Assembly No. 107-1979 44
Hydraulic Cylinder Assembly No. 107-1980 45
Lift Lever Assembly 46
No. 2 and 3 Lift Arm Assembly 47
Hydraulic Cylinder Assembly No. 107-1978 48
No. 2 and 3 Hose Installation Assembly 49
No. 1, 4 and 5 Hose Installation Assembly 50
Hydraulic Motor Assembly No. 105-9872 51
No. 6 and 7 Hose Installation Assembly 52
No. 6 and 7 Lift Arm Assembly 53
Hydraulic Cylinder Assembly No. 107-1981 55
Roll-Over Protection System and Frame Assembly 56
Front Frame Assembly No. 108-6051 57
Roller Support and Access Panel Assembly 58
Cutting Manifold Assembly 59
Manifold Assembly No. 104-5477 60
4 Wheel Drive Manifold and Filter Assembly 61
Filter Manifold Assembly No. 110-0451 62

© 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 (continued)

4 Wheel Drive Manifold Assembly No. 110-0454 63
Traction Hydraulic Line Assembly 64
Hydraulic Mow Line Assembly 65
Hydraulic Steering Line Assembly 66
Hydraulic Lift Line Assembly. 67
Lift Valve and Counter Balance Assembly 68
Manifold Assembly No. 104-5497 69
Three Spool Valve Assembly No. 112-5253. 70
Crankcase Assembly 71
Oil Pan Assembly 72
Cylinder Head Assembly 73
Gear Case Assembly 74
Head Cover Assembly 75
Oil Filter Assembly 76
Dipstick and Guide Assembly 77
Oil Pump Assembly 78
Main Bearing Case. 79
Camshaft and Idler Gear Shaft Assembly 80
Piston and Crankshaft Assembly 81
Flywheel Assembly 82
Fuel Camshaft and Governor Shaft Assembly 83
Engine Stop Lever Assembly 84
Injection Pump Assembly 85
Injection Pump (Component Part) Assembly 86
Governor Assembly 87
Speed Control Plate Assembly. 88
Nozzle Holder and Glow Plug Assembly 89
Fuel Filter and Fuel Pump 90
Alternator and Pulley Assembly 91
Alternator (Component Part) Assembly 92
Starter Assembly 93
Starter (Component Part) Assembly 94
Oil Switch / Thermometer and Plug Assembly 95
Water Flange and Thermostat Assembly 96
Water Pump Assembly 97
Water Pipe Assembly. 98
Fan Assembly 99
Valve and Rocker Arm Assembly 100
Inlet Manifold Assembly 101
Exhaust Manifold Assembly 102
Turbo Charger Assembly 103
Oil Pipe (Turbo Charger) Assembly 104
Oil Cooler Assembly 105
Muffler Gasket and Glow Controller. 106
Engine Operator Manual 107
Gasket Kit 108
Attachments and Accessories 109

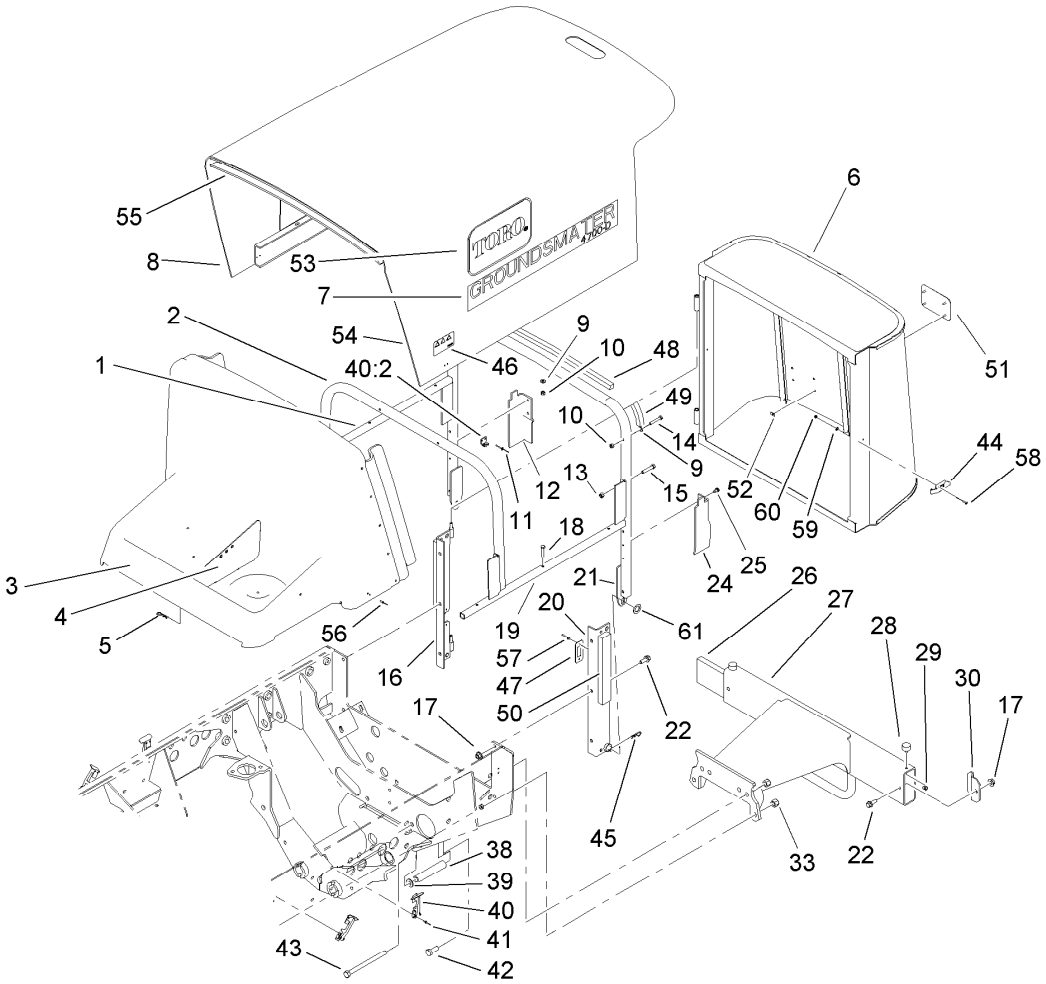


Hood, Screen and Bumper Assembly

Ref.	Part Number	Qty.	Description
1	107-1975-03	1	RH Hood Frame ASM
2	107-1973-03	1	Tube-Front, Hood
3	104-5430	1	Shroud-Front
4	104-5446-03	1	Divider-Shroud
5	3290-467	2	Pin-Hair
6	104-5454-03	1	Screen ASM
7	105-9876	2	Decal
8	104-5419	1	Hood
8:1	106-8116	1	Heat Tape Repair Kit ●
9	3256-22	12	Washer-Flat
10	3296-42	12	Nut-Lock, NI
11	3269-17	4	Rivet-Pop
12	104-5431	1	Cover-Tube, RH
13	3296-29	8	Nut-Lock, NI
14	321-10	6	Screw-HH
15	322-9	8	Screw-HH
16	104-5445-03	1	RH Support ASM
17	32128-43	4	Nut-Flange
18	321-13	6	Screw-HH
19	107-1974-03	1	LH Hood Frame ASM
20	104-5444-03	1	LH Support ASM
21	110-0465-03	1	Rear Tube ASM
22	3234-11	4	Screw-HHF
24	104-5432	1	Cover-Tube, LH
25	32104-17	4	Screw-HWH

Ref.	Part Number	Qty.	Description
26	105-9199-03	1	Weight-Bumper
27	105-9221-03	1	Bumper-Rear
28	240-14	2	Bumper-Rubber
29	32128-33	2	Nut-HF
30	105-9200-03	2	Clamp-Weight, Bumper
33	3296-23	4	Nut-Lock, NI
38	76-8350	2	Stop-Axle
39	3256-26	2	Washer-Flat
40	59-9740	4	Flex Draw Latch ASM
40:2	249-40	1	Keeper
41	3290-55	8	Rivet-Pop
42	325-6	2	Screw-HH
43	325-33	2	Screw-HH
44	105-3912	1	Latch-Draw
45	3290-467	2	Pin-Hair
46	106-6754	2	Decal-Danger
47	104-5459	1	Plate-Latch
48	105-9234	1	Seal-Foam
49	105-9237	2	Seal-Foam
50	105-9235	2	Seal-Foam
51	93-6028	1	Plate-Logo
52	94-2638	4	Nut-Tinnerman
53	66-1210	2	Decal
54	3269-10	8	Washer-Back
55	105-9829	1	Seal-Foam

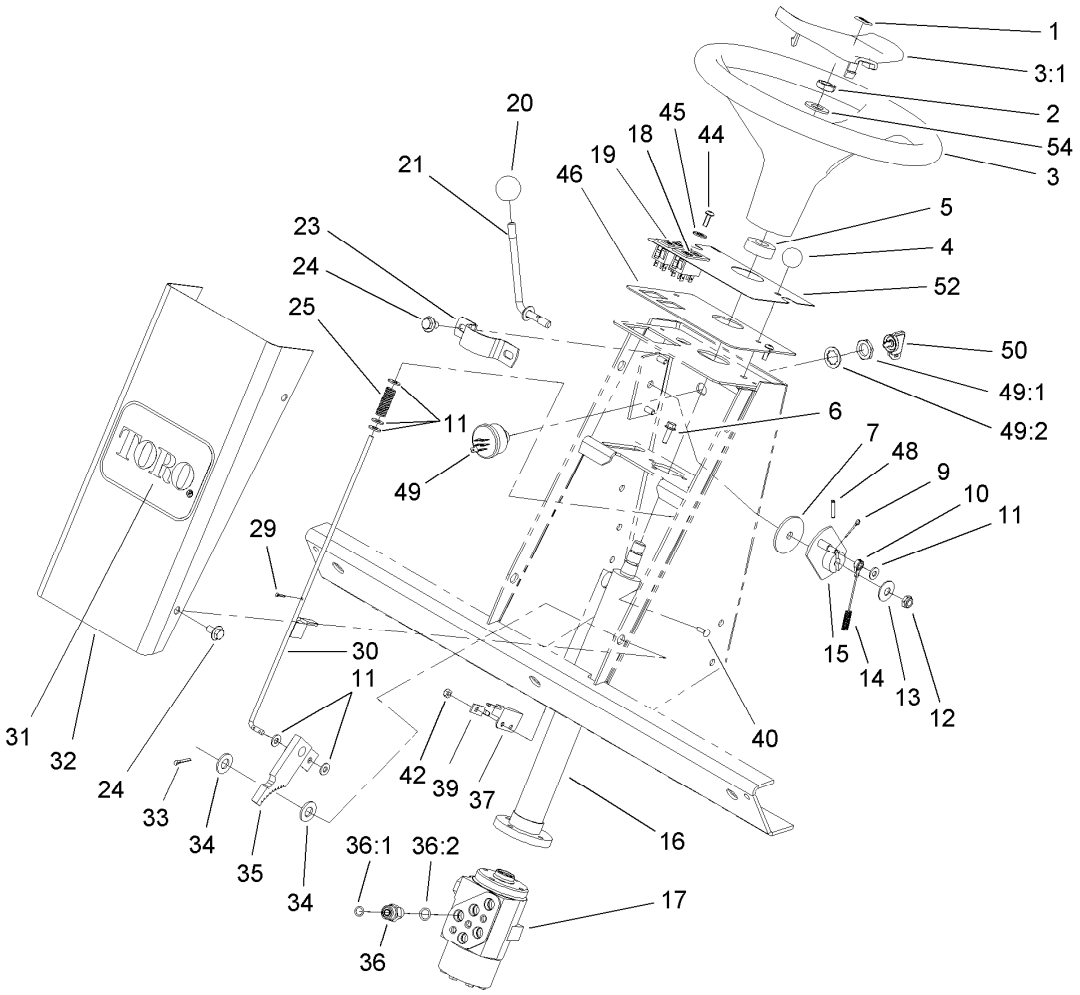
● Not illustrated



Hood, Screen and Bumper Assembly (continued)

Ref.	Part Number	Qty.	Description
56	3290-55	4	Rivet-Pop
57	3269-15	2	Rivet-Pop
58	3249-3	2	Screw-PRH
59	3256-53	2	Washer-Flat
60	3296-9	2	Nut-Lock
61	98-1629	2	Washer

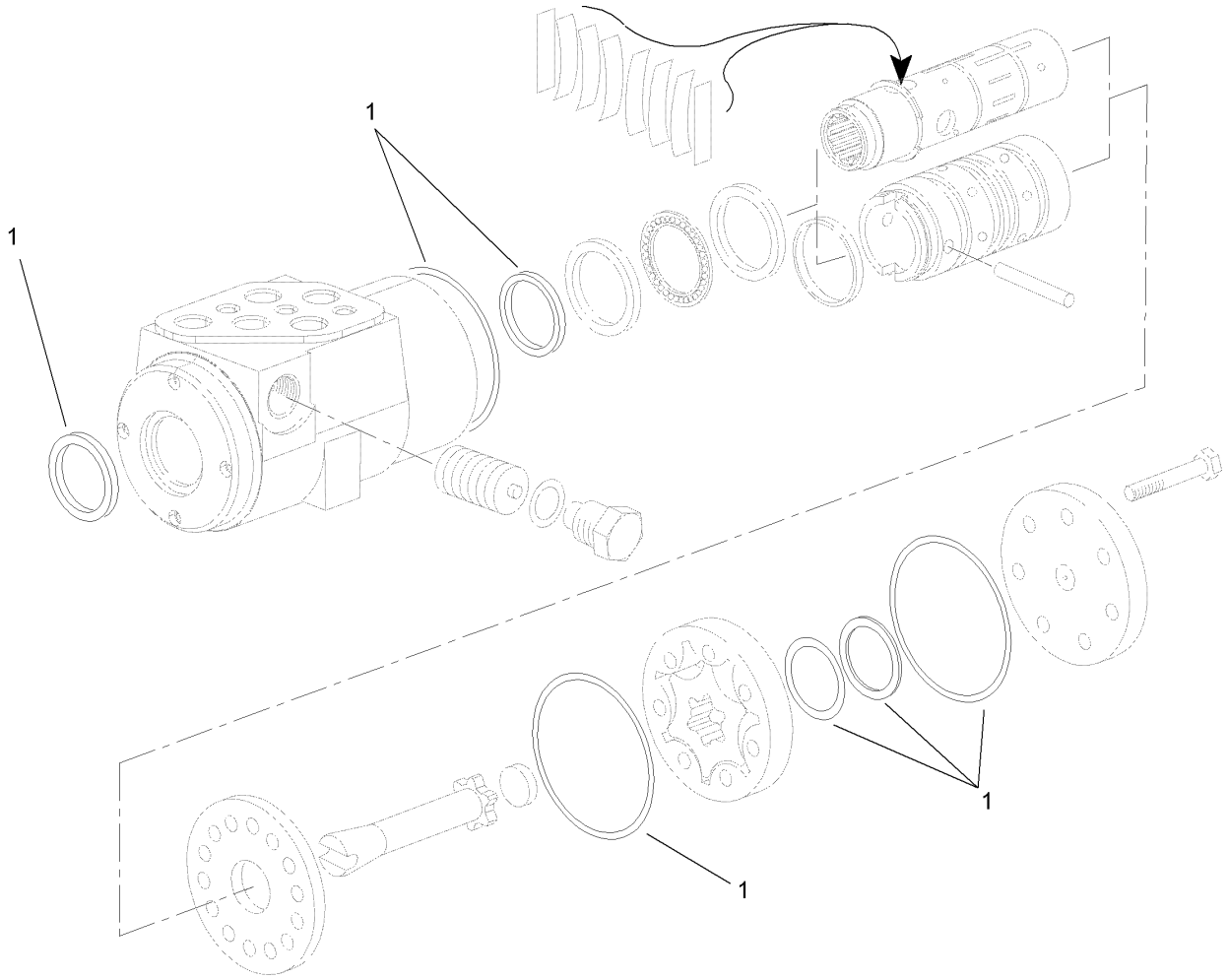
● Not illustrated



Steering Tower Assembly

Ref.	Part Number	Qty.	Description
1	98-1459	1	Decal
2	110-8816	1	Nut-Hex
3	98-1471	1	Wheel-Steering
3:1	98-1468	1	Cover-Wheel, Steering
4	233-17	1	Knob
5	21-9260	1	Cover-Dust
6	33103-016	3	Screw-HHF
7	75-6550	1	Disc-Friction
9	3272-2	1	Pin-Cotter
10	75-6580	1	Cable-Pedal
11	3256-22	6	Washer-Flat
12	3296-59	1	Nut-Lock, NI
13	3290-461	1	Washer-Spring
14	95-7151	1	Tube-Convoluted
15	75-6510	1	Bracket-Lever
16	94-9951	1	Column-Steering
17	114-5074	1	Steering Control ASM
18	100-8071	1	Lamp-Warning
19	100-8070	1	Lamp-Warning
20	233-42	1	Knob
21	75-6490	1	Lever ASM
23	75-2810	1	Bracket-Column, Steering
24	3234-7	6	Screw-HHF
25	95-1821-03	1	Spring-Compression
29	3272-5	3	Pin-Cotter
30	104-1492	1	Rod ASM
31	62-5550	1	Decal
32	93-7996-01	1	Cover-Tower
33	3272-10	1	Pin-Cotter
34	3256-26	2	Washer-Flat
35	63-7900-03	1	Rack ASM
36	340-2	5	Fitting-HYD, Straight
36:1	237-22	1	O-Ring
36:2	237-42	1	O-Ring
37	100-1270	1	Switch-Proximity
39	100-4872	1	Plate-Switch, Neutral
40	3229-34	1	Screw-CARR
42	3296-2	1	Nut-Lock, NI
44	87-6620	2	Screw
45	3256-1	2	Washer-Flat
46	105-9232-03	1	Plate-Instrument
48	32121-45	1	Pin-Spring
49	104-2541	1	Switch ASM
49:1	218-461	1	Nut-HH
49:2	3254-5	1	Washer-Tooth, Internal
50	63-8360	1	Key-Ignition
52	105-3888	1	Decal-Tower
54	3256-27	1	Washer-Flat
99	3290-379	1	Tie-Cable ●

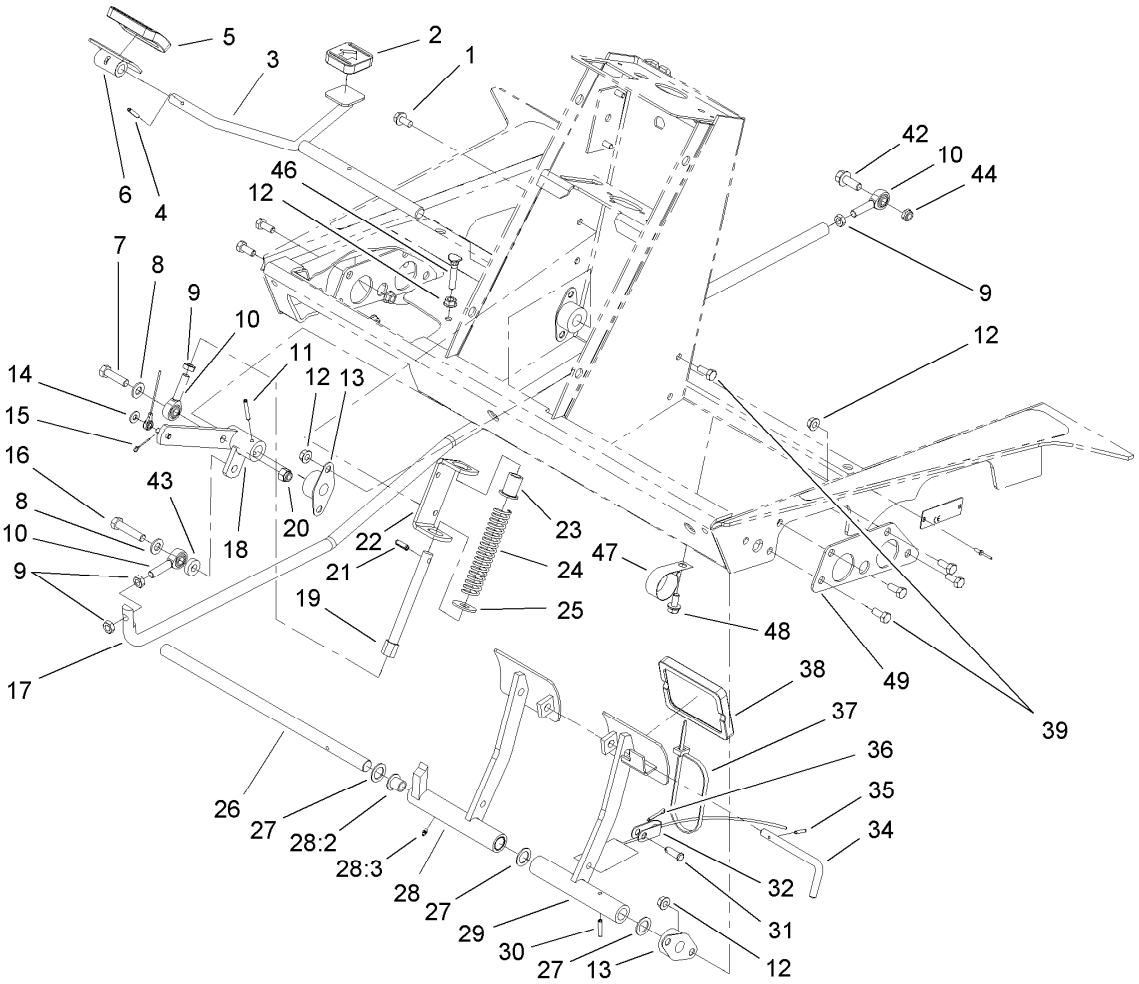
● Not illustrated



Steering Control Assembly No. 114-5074

Ref.	*Part Number*	*Qty.*	*Description*
1	108-1519	1	Seal Kit

● Not serviced separately

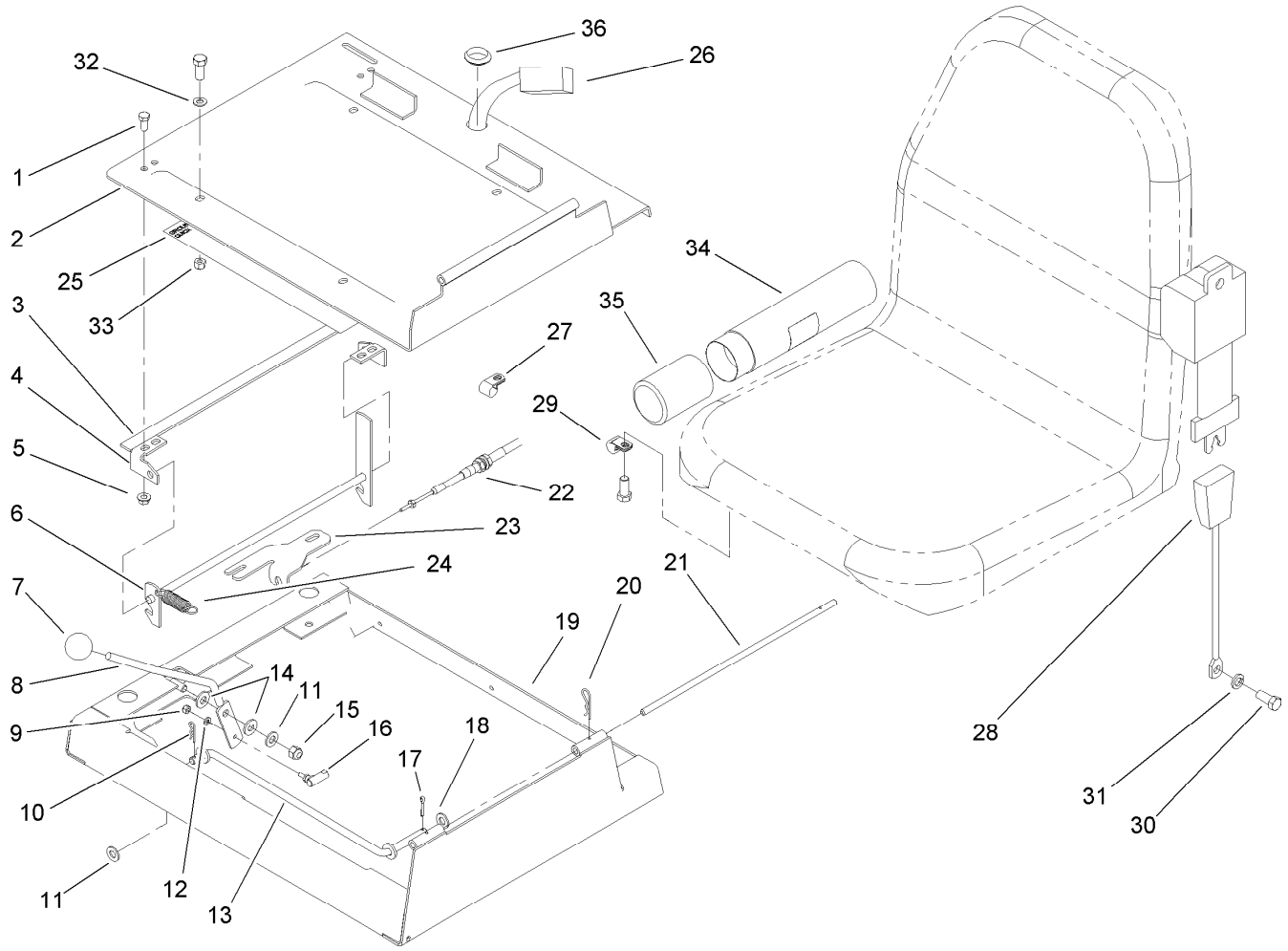


Traction and Brake Pedal Assembly

Ref.	Part Number	Qty.	Description
1	32144-14	2	Screw-HWHTF
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	2	Washer-Flat
9	3220-3	4	Nut-HJ
10	2411-36	3	Bearing-End, Rod
11	32121-6	1	Pin-Roll, Slotted
12	32128-20	12	Nut-HF
13	256-236	4	Bearing-Mount, Flange
14	3256-22	1	Washer-Flat
15	3272-2	1	Pin-Cotter
16	323-9	1	Screw-HH
17	104-5632-03	1	Rod-Control, Pump
18	75-3270-03	1	Hub-Pivot, Traction
19	92-7609	1	Shaft-Spring
20	3296-39	2	Nut-Lock, 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

Ref.	Part Number	Qty.	Description
25	3256-5	1	Washer-Flat
26	75-1470	1	Pin-Pivot, Brake
27	3256-69	3	Washer-Flat
28	75-1430	1	Pedal-Brake, RH
28:2	256-42	2	Bushing
28:3	302-5	1	Fitting-Grease
29	75-1440-03	1	LH Brake Pedal ASM
30	32121-16	1	Pin-Spring
31	283-58	2	Pin-Clevis
32	92-7530	1	LH Brake Cable ASM
33	92-7529	1	RH Brake Cable ASM ●
34	63-7880	1	Pin-Latch, Brake
35	32121-50	1	Pin-Spring
36	3272-10	2	Pin-Cotter
37	3290-378	1	Tie-Cable
38	93-8742	2	Footpad-Brake
39	322-3	8	Screw-HH
42	3234-11	1	Screw-HHF
43	5-0652	1	Spacer
44	3296-59	1	Nut-Lock, NI
46	3274-83	2	Screw-HSH
47	2412-150	1	Clip-J
48	3234-14	1	Screw-HHF
49	106-7794-01	2	Plate-Mount, HYD Fitting

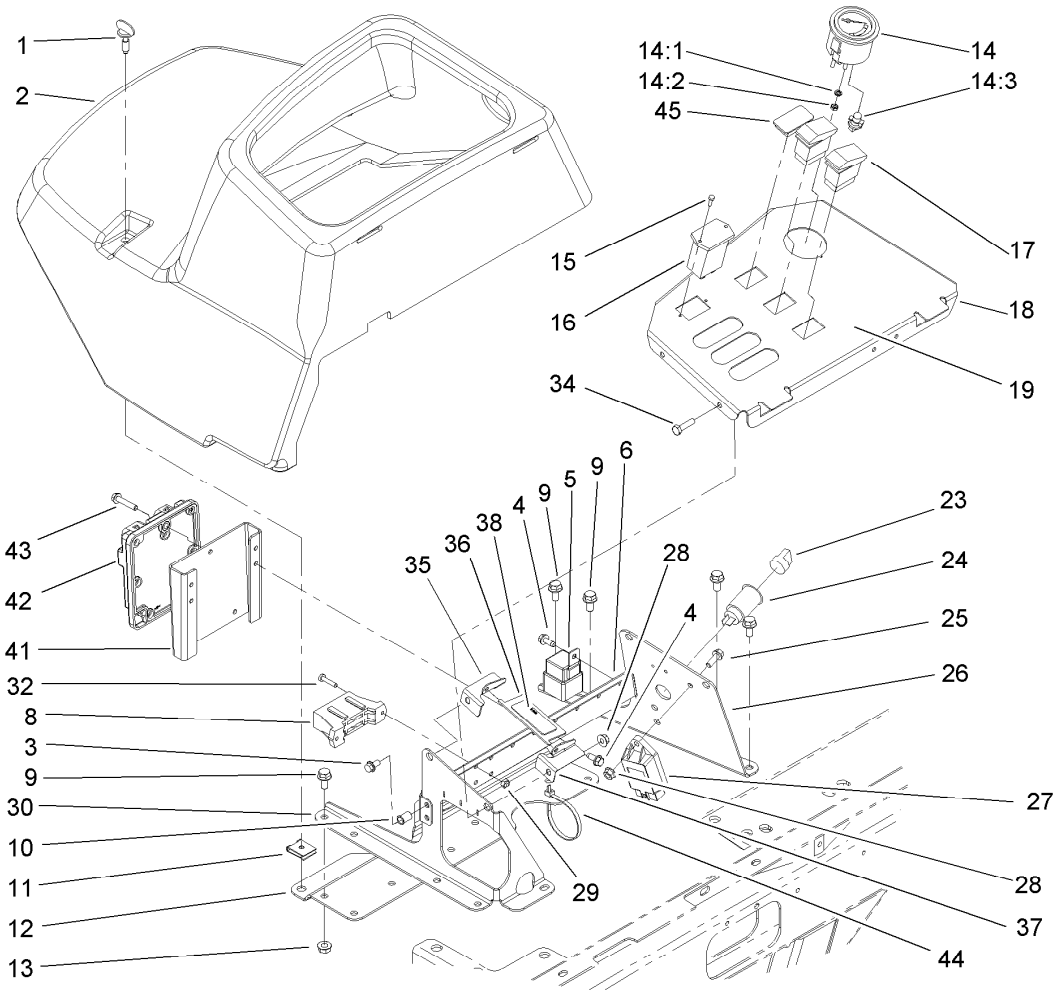
● Not illustrated



Throttle and Seat Frame Assembly

Ref.	Part Number	Qty.	Description
1	322-3	8	Screw-HH
2	110-0453-03	1	Seat Plate ASM
3	94-8146	1	Strip-Foam
4	98-2353	2	Bracket-Latch, Seat
5	32128-25	4	Nut-HF
6	98-2354-03	1	Latch-Seat
7	233-42	1	Knob
8	93-7598	1	Lever-Throttle
9	3296-21	1	Nut-Lock, NI
10	3290-307	1	Pin-Hair
11	3256-24	3	Washer-Flat
12	3256-51	1	Washer-Flat
13	75-3680-03	1	Rod-Seat
14	66-2920	2	Washer-Friction
15	3296-39	1	Nut-Lock, NI
16	2411-38	1	Joint-Ball
17	3272-10	1	Pin-Cotter
18	52-2900	2	Washer-Plastic

Ref.	Part Number	Qty.	Description
19	98-2352-03	1	Frame-Seat
20	3290-467	1	Pin-Hair
21	75-3400	1	Shaft-Pivot, Seat
22	104-7547	1	Cable-Throttle
23	105-3929-03	1	Bracket-Cable, Throttle
24	66-4190	1	Spring-Idler, Clutch
25	105-9895	1	Decal-Quick Reference
26	105-9189	1	Harness-Wire, Seat Switch
27	2412-133	2	R-Clamp
28	100-4928	1	Belt-Seat
29	2412-93	1	Clamp-R
30	3212-4	2	Screw-HH
31	3253-6	2	Washer-Lock
32	3256-23	4	Washer-Flat
33	3296-29	8	Nut-Lock, NI
34	104-7050	1	Tube-Manual
35	104-7048	1	Cap-Housing
36	240-5	1	Grommet

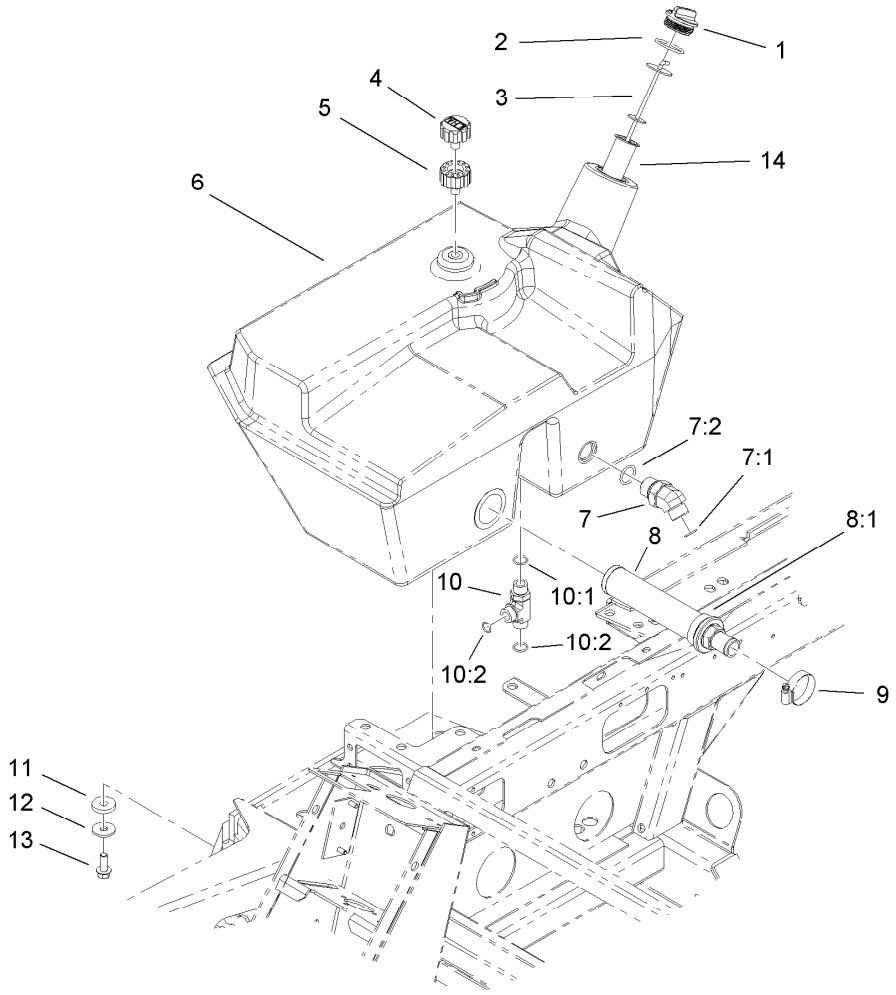


Control Console Assembly

Ref.	Part Number	Qty.	Description
1	105-9208	2	Screw-Head, Wing
2	104-5599	1	Cover-Console
3	3234-13	4	Screw-HHF
4	32144-10	7	Screw-HWH
5	99-7430	3	Relay
6	104-5613-03	1	Panel-Relay
8	110-0486	1	Harness-Wire, Console
8:2	218-578	4	Fuse-Blade, 10 Amp ●
8:3	109355	1	Fuse-Blade, 15 Amp ●
8:4	100-4918	1	Diode ●
8:5	92-3188	1	Diode-Board, Circuit ●
8:6	94-6710	1	Fuse-2 Amp ●
9	3234-14	9	Screw-HHF
10	32148-6	6	Insert-Nut
11	105-9209	2	Recepticle-Clip On
12	104-5612-03	1	Support-Cover
13	32128-20	4	Nut-HF
14	98-9308	1	Gauge-Temperature
14:1	3254-1	3	Washer-Lock, Int
14:2	3217-27	3	Nut-Hex
14:3	105-9265	1	Bulb And Lamp ASM
15	32144-18	2	Screw-HH
16	75-6820	1	Hourmeter
17	95-8999	2	Switch

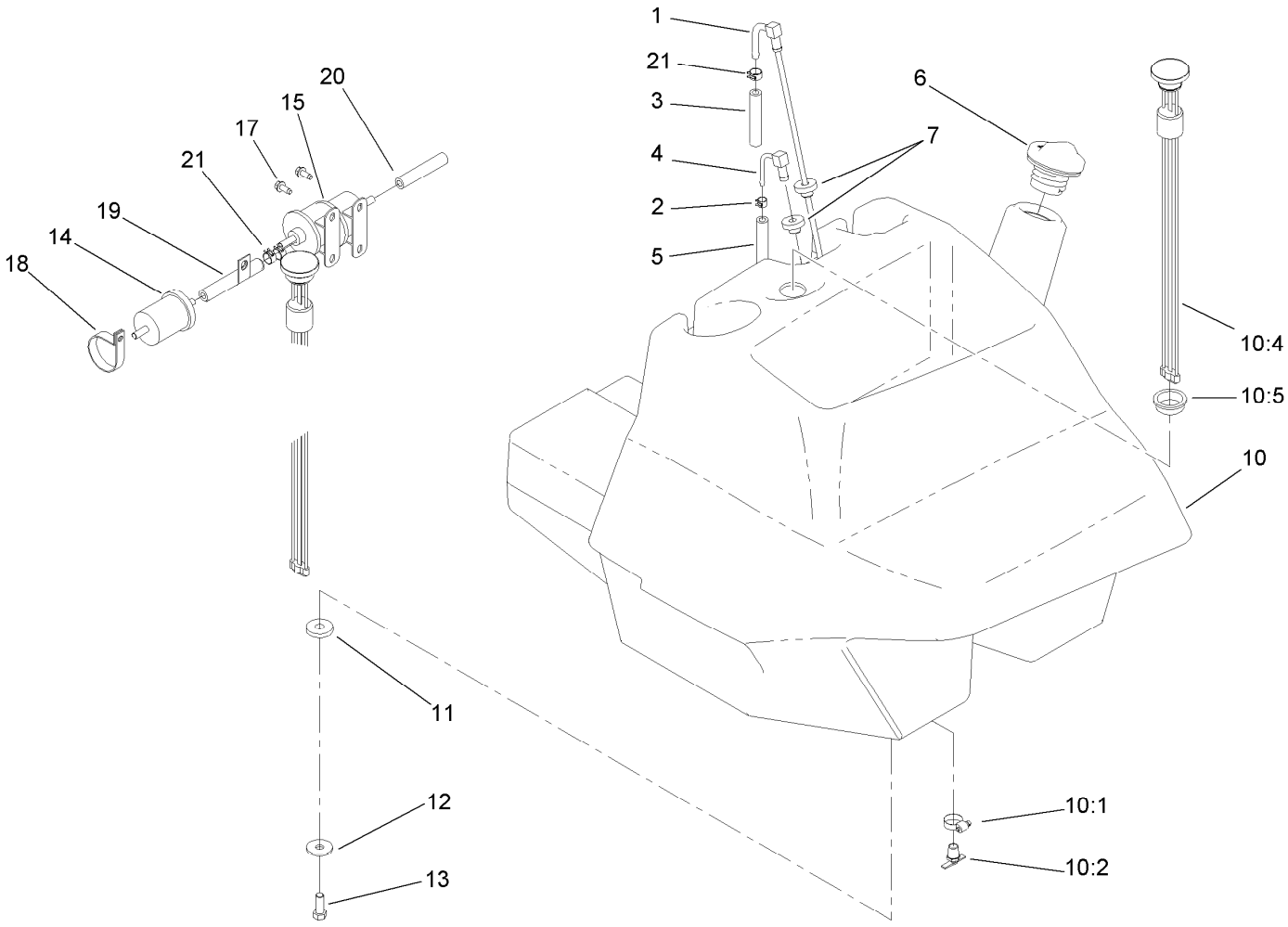
Ref.	Part Number	Qty.	Description
18	108-4043-03	1	Dash
19	108-4044	1	Decal-Console
19	105-9223	1	Decal-Console, Ce ●
23	99-7416	1	Cap
24	99-7411	1	Point-Power
25	3234-4	1	Screw-HHF
26	104-5610-03	1	Panel-Dash, Rear
27	98-7611	1	Controller-Glow
28	32128-33	3	Nut-HF
29	3296-2	6	Nut-Lock, NI
30	104-5609-03	1	Panel-Dash, Front
31	105-3986	1	Module-Control, Deck ●
32	32105-13	6	Screw-HWH
34	321-6	2	Screw-HH
35	105-9840	1	Bracket-Latch, RH
36	105-9842	1	Plate-Latch, Ce
37	105-9841	1	Bracket-Latch, LH
38	105-9830	1	Decal-Lever Lock, Ce
41	105-9873-03	1	Bracket-Module
42	106-9277	1	Module-Control, Standard
43	32144-110	3	Screw-HWH
44	3290-379	5	Tie-Cable
45	99-7420	1	Plug-Hole

● Not illustrated



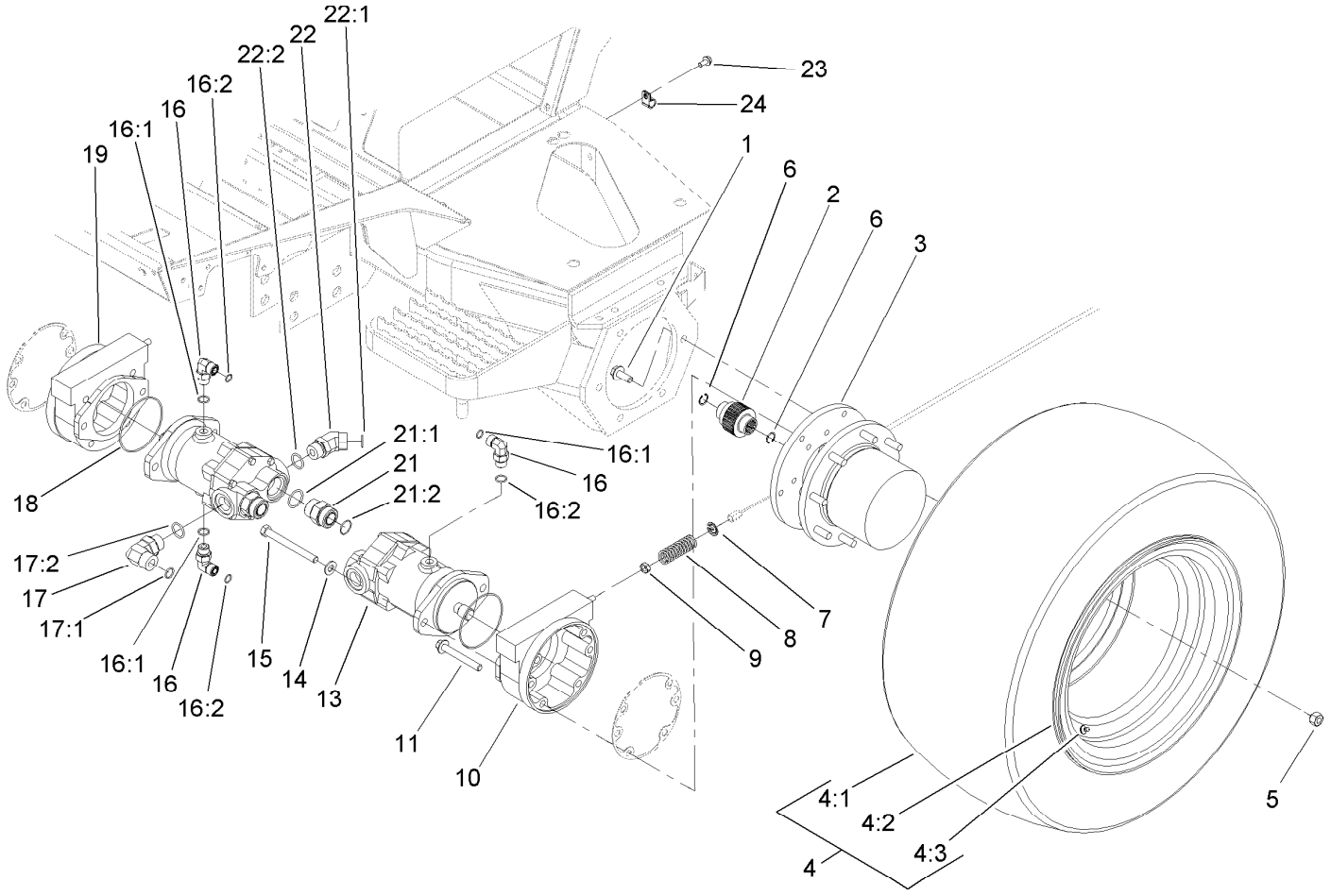
Hydraulic Filter and Reservoir Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	93-7498	1	Plug-Plastic
2	94-8166	1	O-Ring
3	75-3710	1	Dipstick
4	68-6150	1	Breather
5	92-8020	1	Adapter-Breather
6	104-5600	1	Tank-HYD
7	340-156	1	Fitting-HYD
7:1	237-65	1	O-Ring
7:2	237-81	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	240-11	3	Bushing-Flange
12	63-8410	3	Washer
13	3234-11	3	Screw-HHF
14	61-2790	1	Filter-Screen



Fuel Tank and Filter Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	104-5604	1	Fitting-Suction
2	2412-80	2	Clamp-Hose
3	110-4109	1	Hose-Fuel
4	104-5605	1	Fitting-Return
5	110-0471	1	Hose-Fuel
6	93-3102	1	Cap-Fuel
7	46-6560	2	Bushing
10	104-5601	1	Fuel Tank ASM
10:1	2412-36	1	Clamp-Hose
10:2	304-46	1	Draincock
10:4	104-5603	1	Gauge-Level, Fuel
10:5	95-8972	1	Grommet
11	240-11	4	Bushing-Flange
12	63-8410	4	Washer
13	3234-11	4	Screw-HHF
14	98-7612	1	Filter-Fuel
15	107-0122	1	Pump-Fuel, Electric
17	32144-10	3	Screw-HWH
18	2412-148	1	Clamp-R
19	110-0462	1	Hose-Fuel
20	109-0309	1	Hose-Fuel
21	92-2379	5	Clamp-Hose

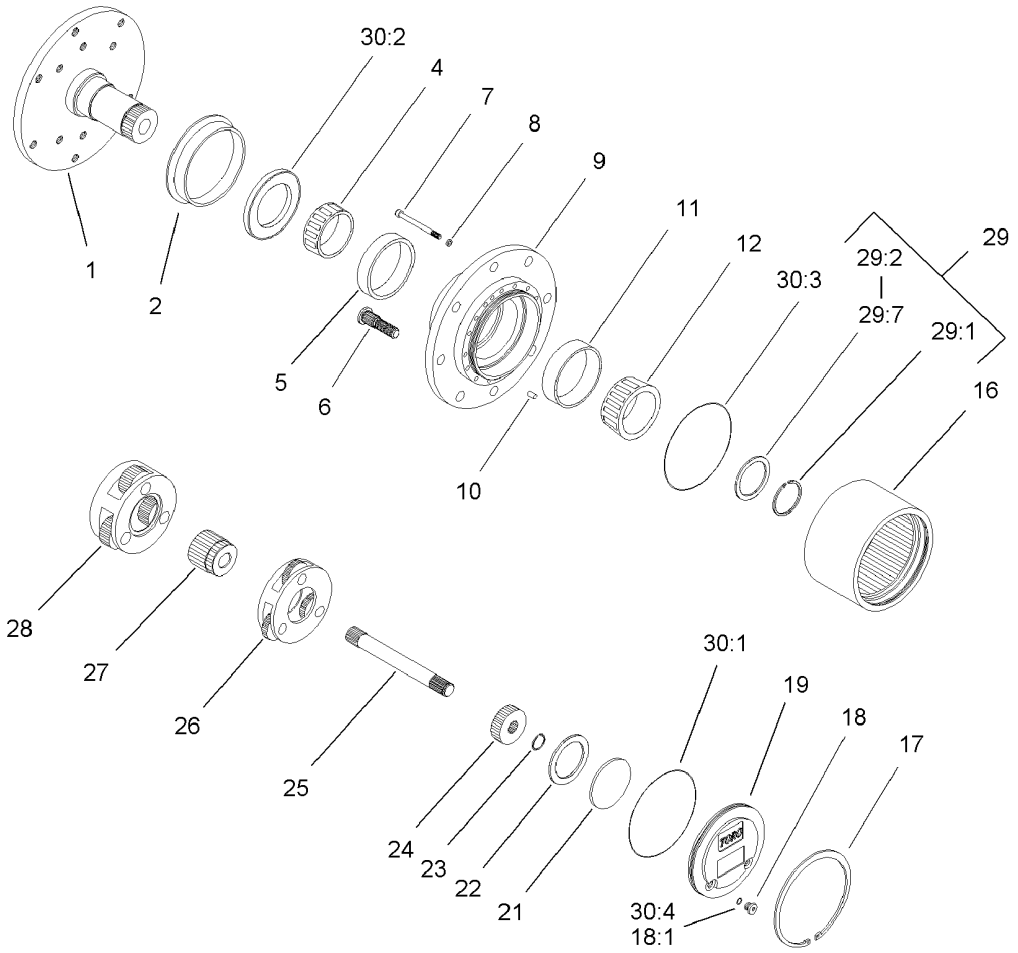


Front Drive and Brake Assembly

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	95-3464	1	Rim
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	32144-14	2	Screw-HWHTF
24	2412-93	2	Clamp-R

● Not serviced separately

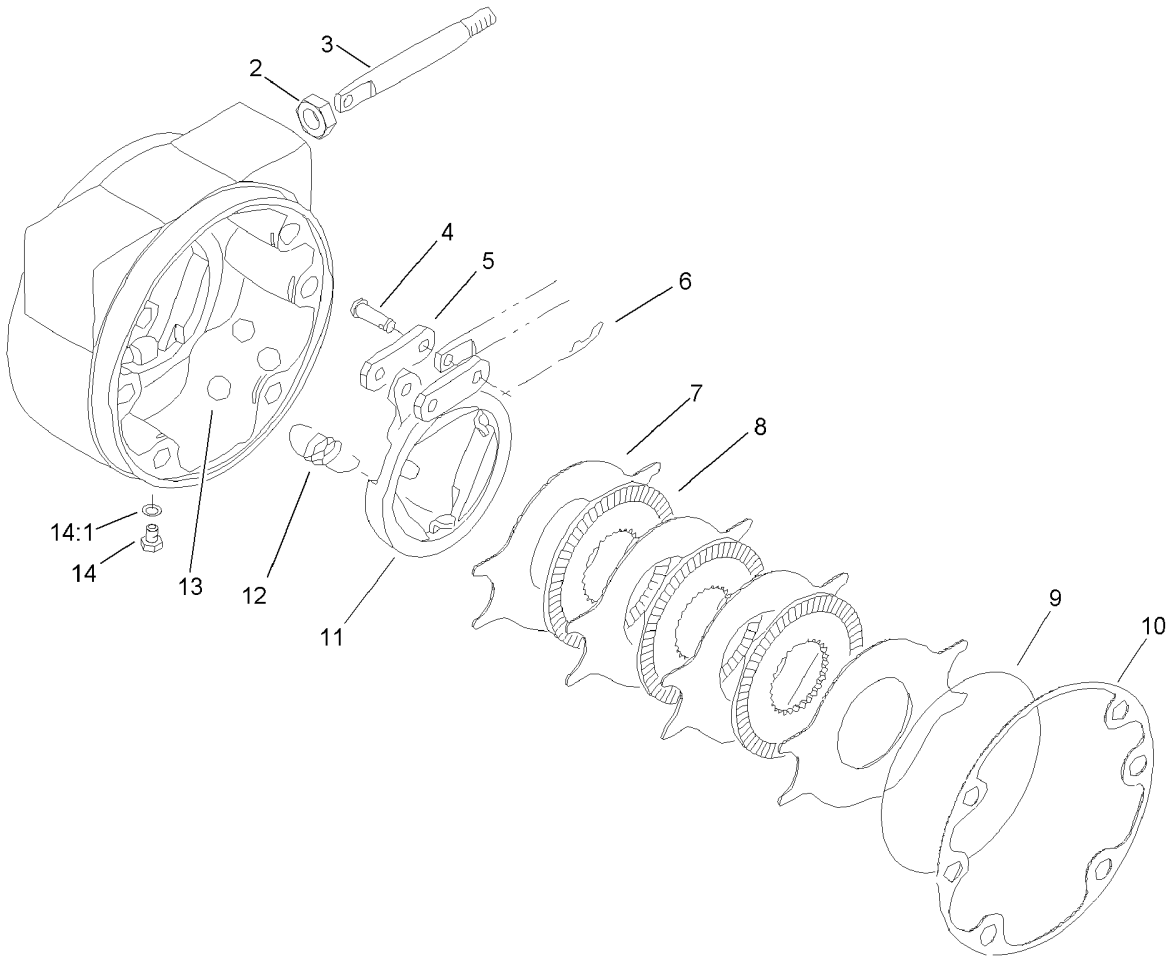


Planetary Assembly No. 105-4500-03

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
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

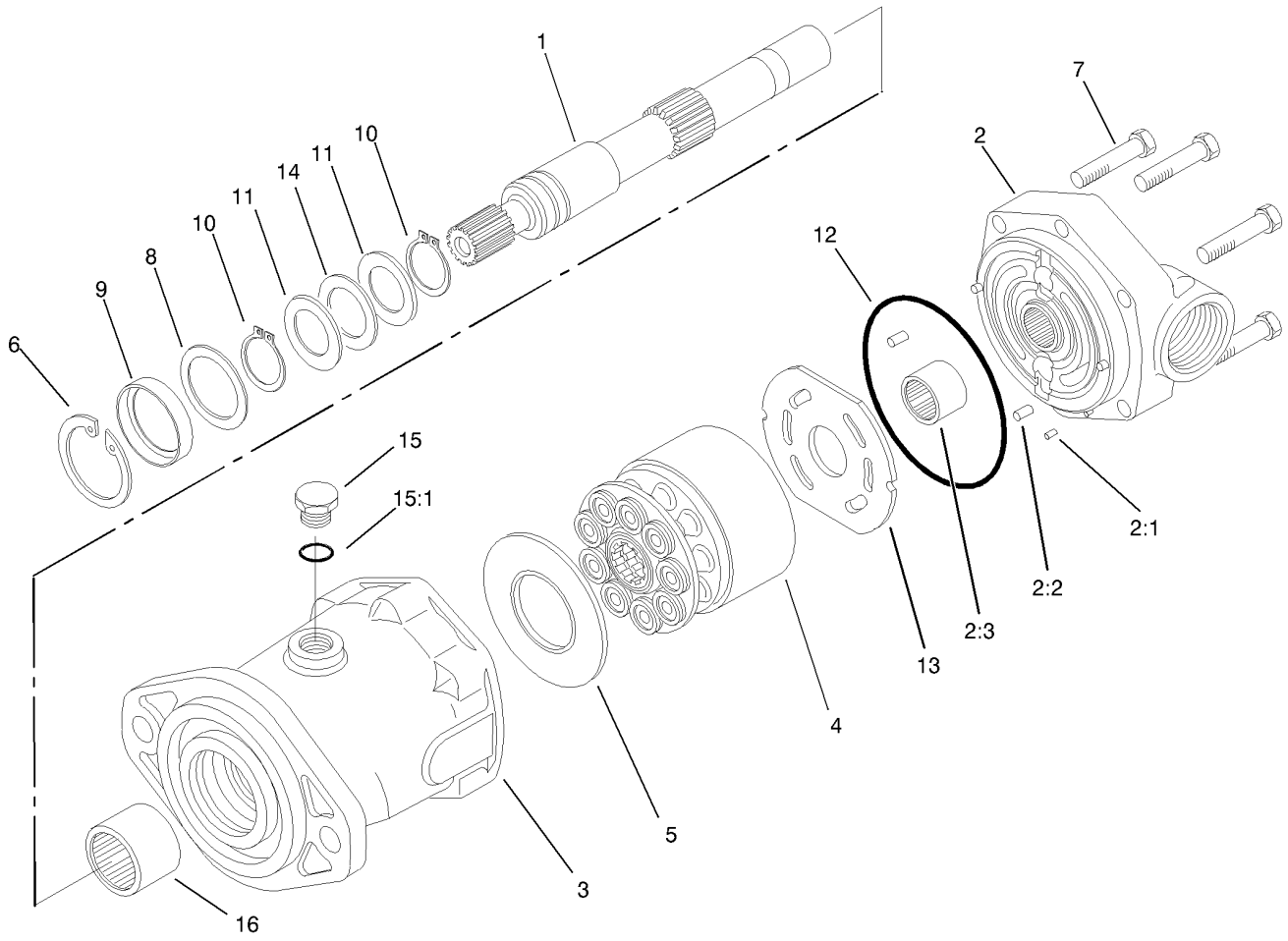
● Not illustrated

■ Not serviced separately



Brake Assembly No. 100-3070-03

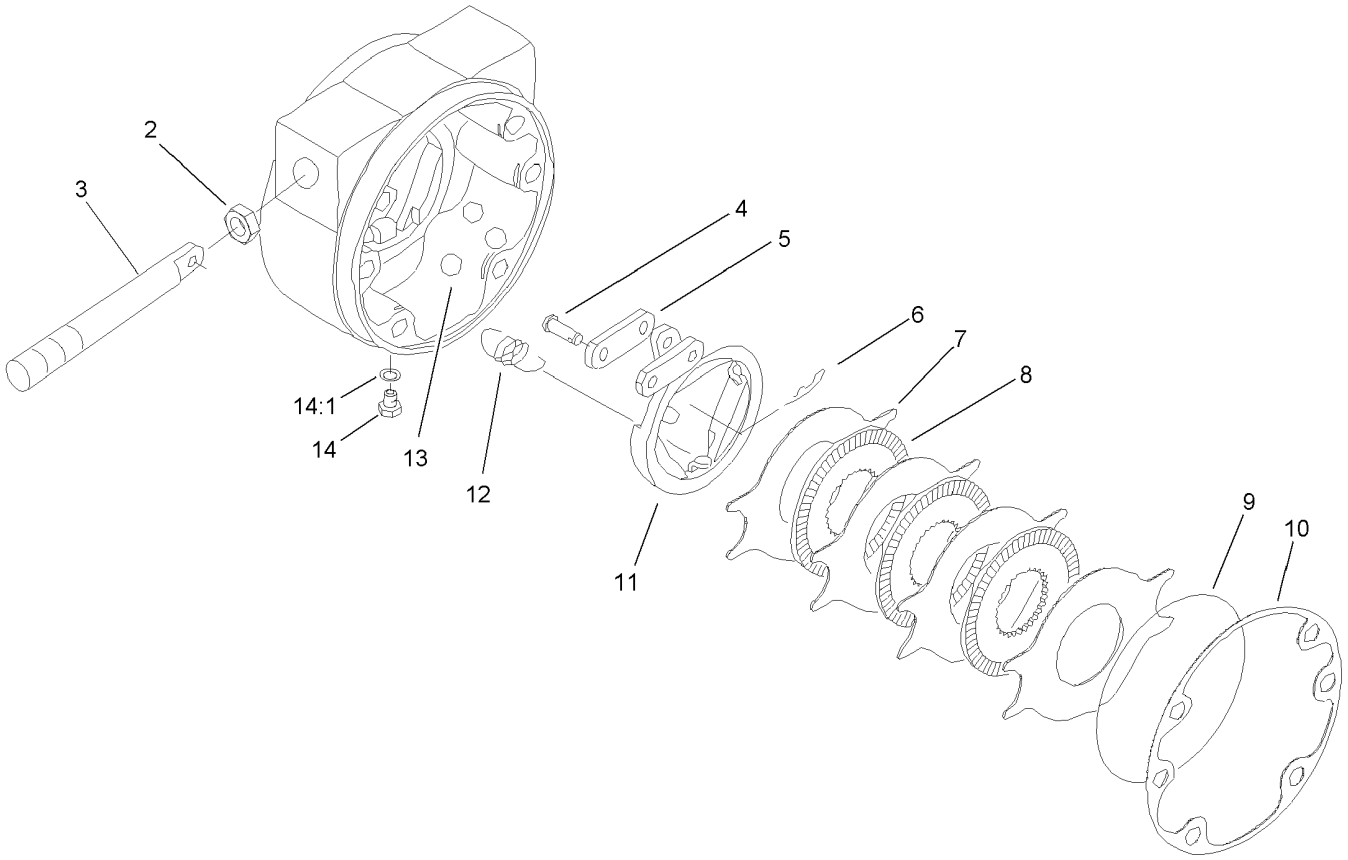
Ref.	*Part Number*	*Qty.*	*Description*
2	93-7977	1	Seal
3	93-7978	1	Rod-Pull
4	93-7983	2	Pin-Clevis
5	93-7980	2	Link
6	93-7979	2	Pin-Hitch
7	93-7986	4	Disc-Stationary
8	104-4278	3	Disc-Rotating
9	93-7976	1	Ring-Retaining
10	93-7984	1	Gasket
11	104-4279	1	Actuator-Rotating
12	93-7987	3	Spring-Extension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



Piston Motor Assembly No. 105-1218

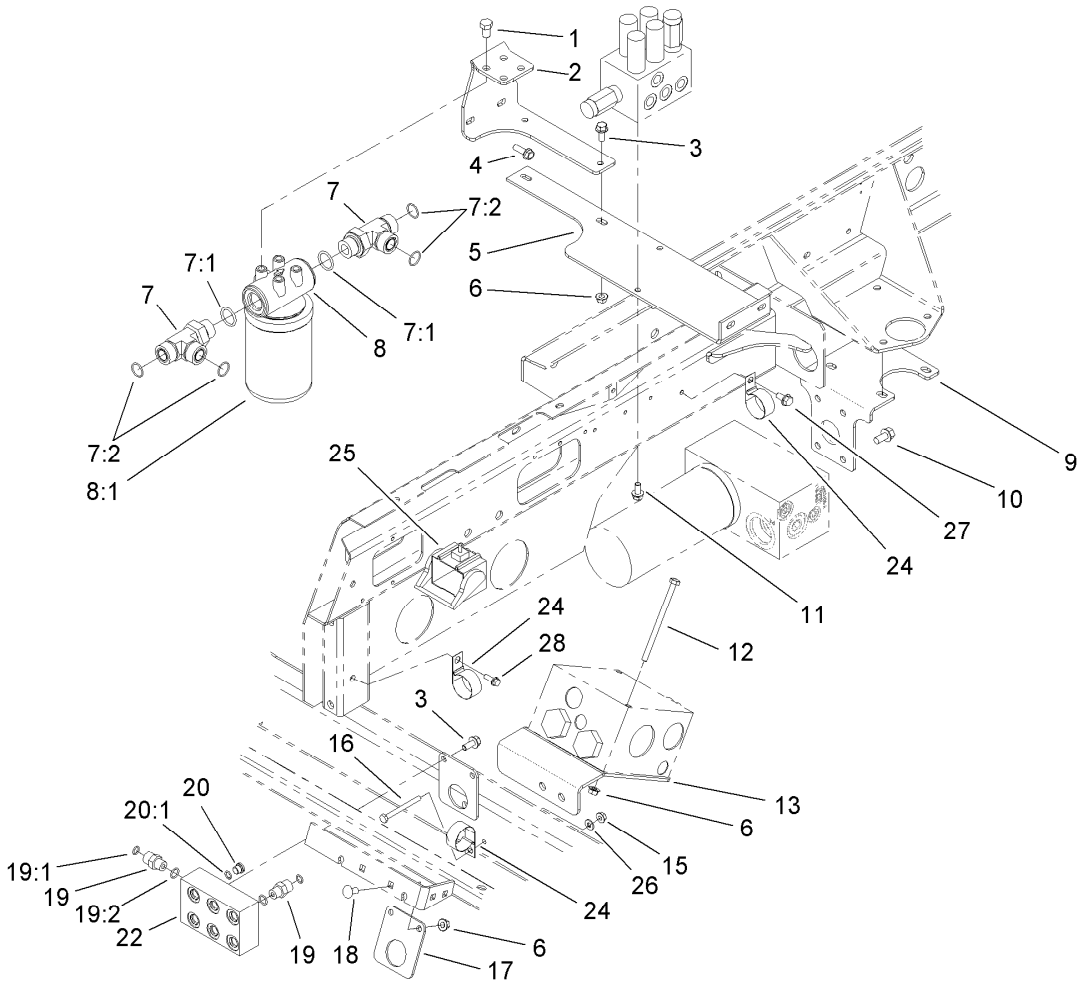
Ref.	*Part Number*	*Qty.*	*Description*
1	94-3004	1	Shaft-Drive, Splined
2	105-2851	1	Backplate ASM
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring
7	94-3002	6	Capscrew
8	60-6240	1	Washer
9	105-3331	1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

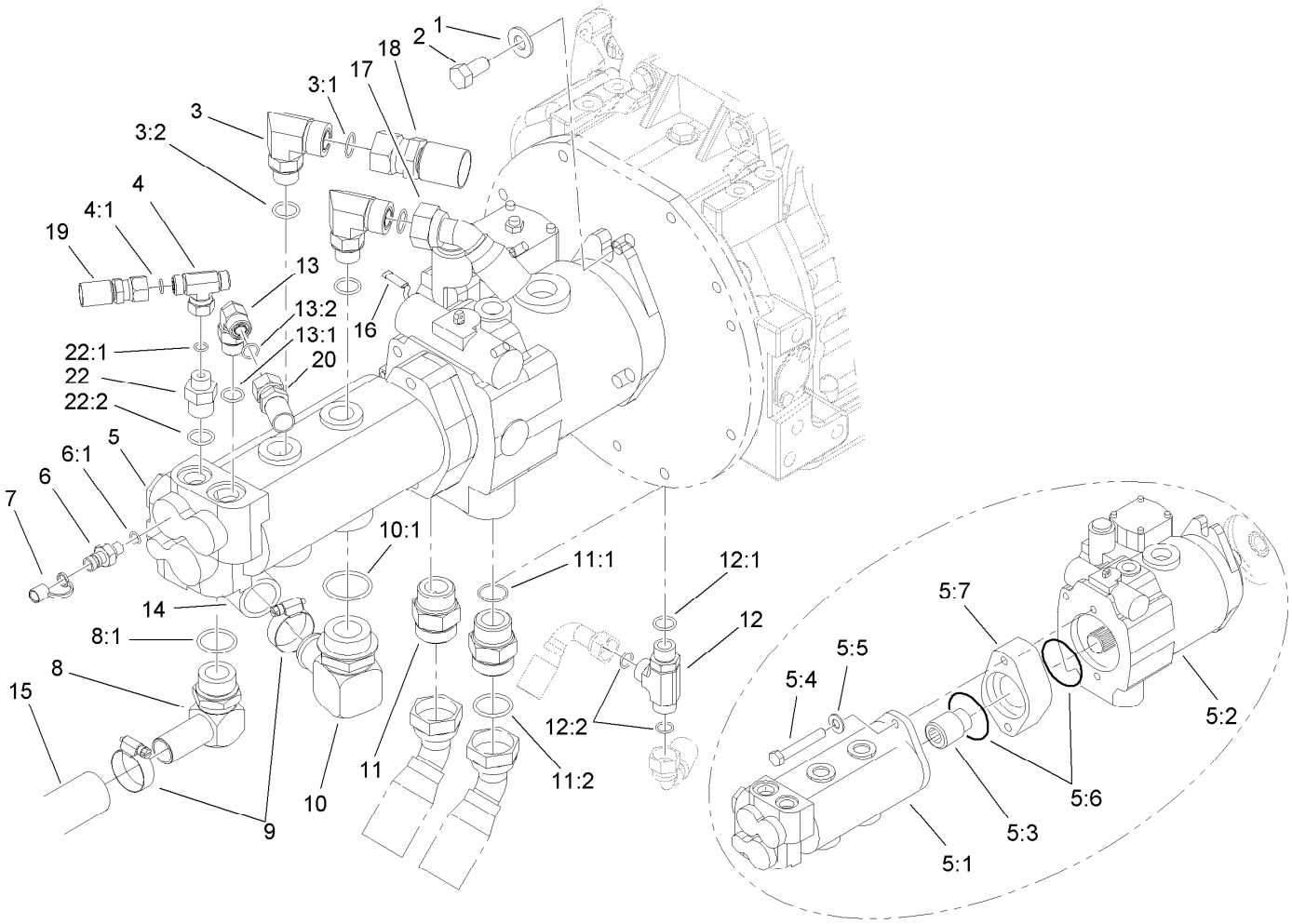


Manifold Mounting and Fitting Assembly

Ref.	Part Number	Qty.	Description
1	33115-016	4	Screw-HH
2	104-5492-03	1	Bracket-Mount, Filter
3	3234-5	4	Screw-HHF
4	3234-17	4	Screw-HHF
5	104-5493-03	1	Bracket-Mount, Valve
6	32128-20	6	Nut-HF
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	110-0472-03	1	Bracket-Manifold, Filter
10	3234-1	4	Screw-HHF
11	3234-14	2	Screw-HHF
12	322-48	2	Screw-HH
13	104-5467-03	1	Bracket-Mount, Valve

Ref.	Part Number	Qty.	Description
15	32128-33	2	Nut-HF
16	321-14	2	Screw-HH
17	104-5516-01	1	Support-Tube
18	3230-23	2	Screw-CARR
19	340-2	4	Fitting-HYD, Straight
19:1	237-22	1	O-Ring
19:2	237-42	1	O-Ring
20	353-990	1	Plug
20:1	237-78	1	O-Ring
22	104-5515	1	Manifold-Junction, Lift
24	2412-150	3	Clip-J
25	110-0488	1	Harness-Wire
25:1	100-4918	1	Diode ●
26	3256-22	2	Washer-Flat
27	32144-14	1	Screw-HWHTF
28	3234-4	1	Screw-HHF

● Not illustrated

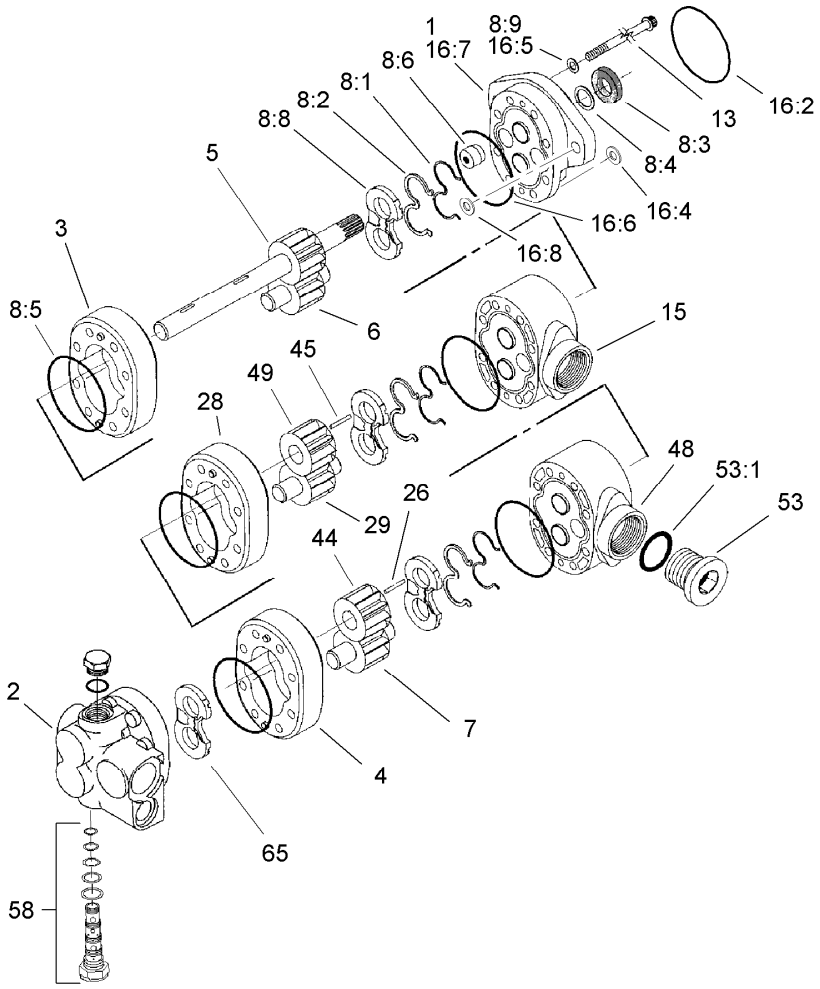


Hydraulic Pump Assembly

Ref.	Part Number	Qty.	Description
1	87-7270	2	Washer-Thrust
2	3213-2	2	Screw-HH
3	340-16	2	Fitting-HYD, 90 DEG
3:1	237-80	1	O-Ring
3:2	237-58	1	O-Ring
4	340-166	1	Fitting-Tee, HYD
4:1	237-22	1	O-Ring
5		1	Pump ASM ●
5:1	105-9845	1	Triple Pump ASM
5:2	110-0464	1	Pump-Piston
5:3	74-9030	1	Coupler
5:4	323-32	2	Screw-HH
5:5	60-3540	2	Washer
5:6	60-3520	2	O-Ring
5:7	105-2869	1	Spacer
6	354-77	2	Fitting-Quick
6:1	237-78	1	O-Ring
7	354-79	2	Cap-Dust
8	56-9530	1	Fitting-HYD, 90 DEG
8:1	237-117	1	O-Ring
9	2412-130	2	Clamp-Hose

Ref.	Part Number	Qty.	Description
10	92-7526	1	Fitting-HYD, 90 DEG
10:1	237-101	1	O-Ring
11	104-3797	2	Fitting-HYD, Straight
11:1	237-146	1	O-Ring
11:2	340-65	1	O-Ring
12	340-109	1	Fitting-HYD, Tee
12:1	237-79	1	O-Ring
12:2	237-30	2	O-Ring
13	340-98	1	Fitting-HYD, 90 DEG
13:1	237-79	1	O-Ring
13:2	237-30	1	O-Ring
14	104-5482	1	Hose-Suction
15	104-5484	1	Hose-Suction
16	105-0122	1	Harness-Wire
17	105-3874	1	Hose ASM
18	105-3875	1	HYD Hose ASM
19	92-7595	1	Hose ASM
20	105-3869	1	Hose ASM
22	340-141	1	Fitting-HYD, Straight
22:1	237-22	1	O-Ring
22:2	237-80	1	O-Ring

● Not serviced separately

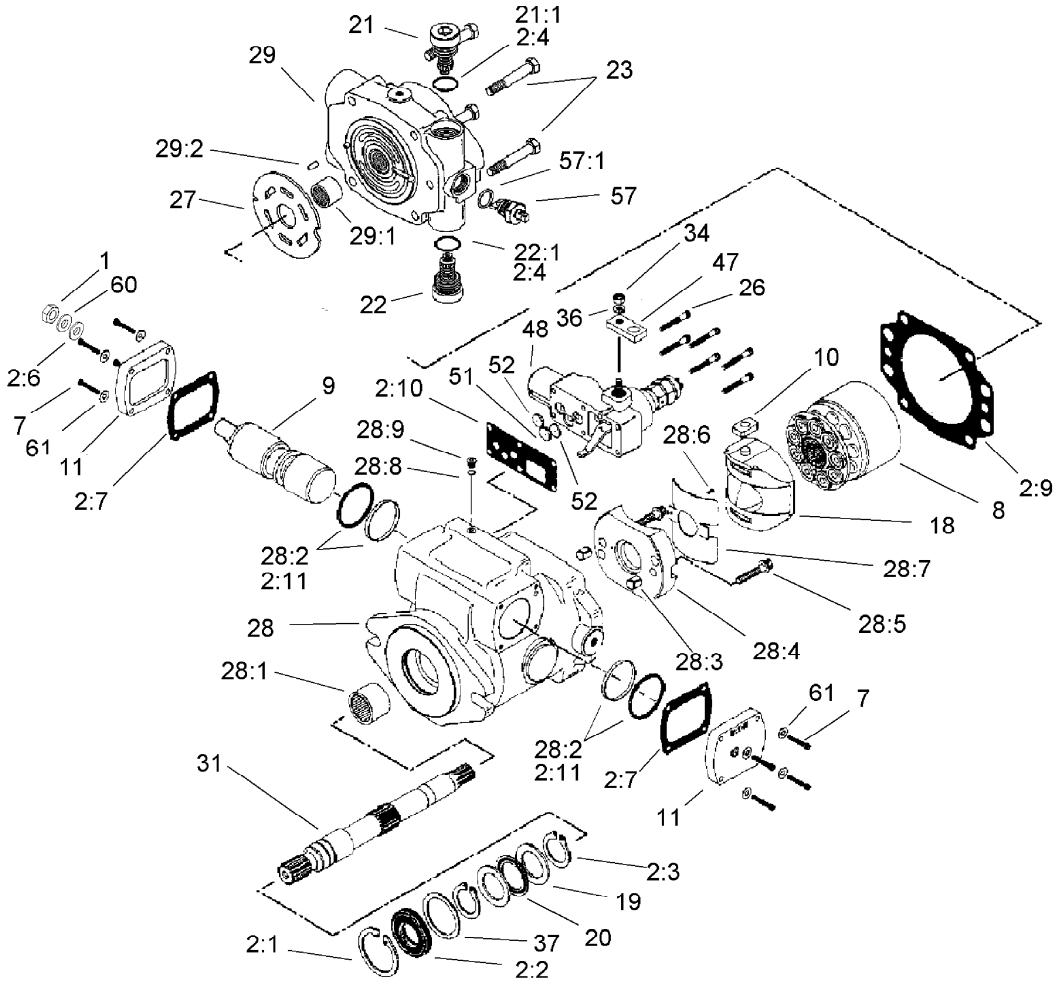


Triple Pump Assembly No. 105-9845

Ref.	Part Number	Qty.	Description
1		1	Front Plate ASM ●
2		1	Back Plate ASM ●
3		1	Body ●
4		1	Body ●
5		1	Drive Gear ASM ●
6		1	Gear-Idler ●
7		1	Gear-Idler ●
8	94-3015	1	Seal Kit
8:1		3	Gasket-Back Up ●
8:2		3	Seal-Balance ●
8:3	49-2640	1	Seal-Shaft
8:4	60-5890	1	Washer
8:5		6	Seal-Dust ●
8:6		1	Plug ●
8:8		3	Plate-Wear ●
8:9		4	Washer ●
13	105-9849	8	Capscrew
15		1	Plate-Adaptor ●

Ref.	Part Number	Qty.	Description
16	107-4328	1	Front Plate Kit
16:2		1	Seal-Dust ●
16:4		4	Washer ●
16:5		4	Washer-Crush ●
16:6		1	Seal-Dust ●
16:7		1	Plate-Front ●
16:8		2	Washer ●
26		1	Key ●
28		1	Body ●
29		1	Gear-Idler ●
44		1	Gear ●
45		1	Key ●
48		1	Plate-Adaptor ●
49		1	Gear ●
53	94-3013	1	Plug
53:1		1	Seal-Dust ●
58	107-1970	1	Valve-Proportional
65		1	Plate-Thrust ●

● Not serviced separately



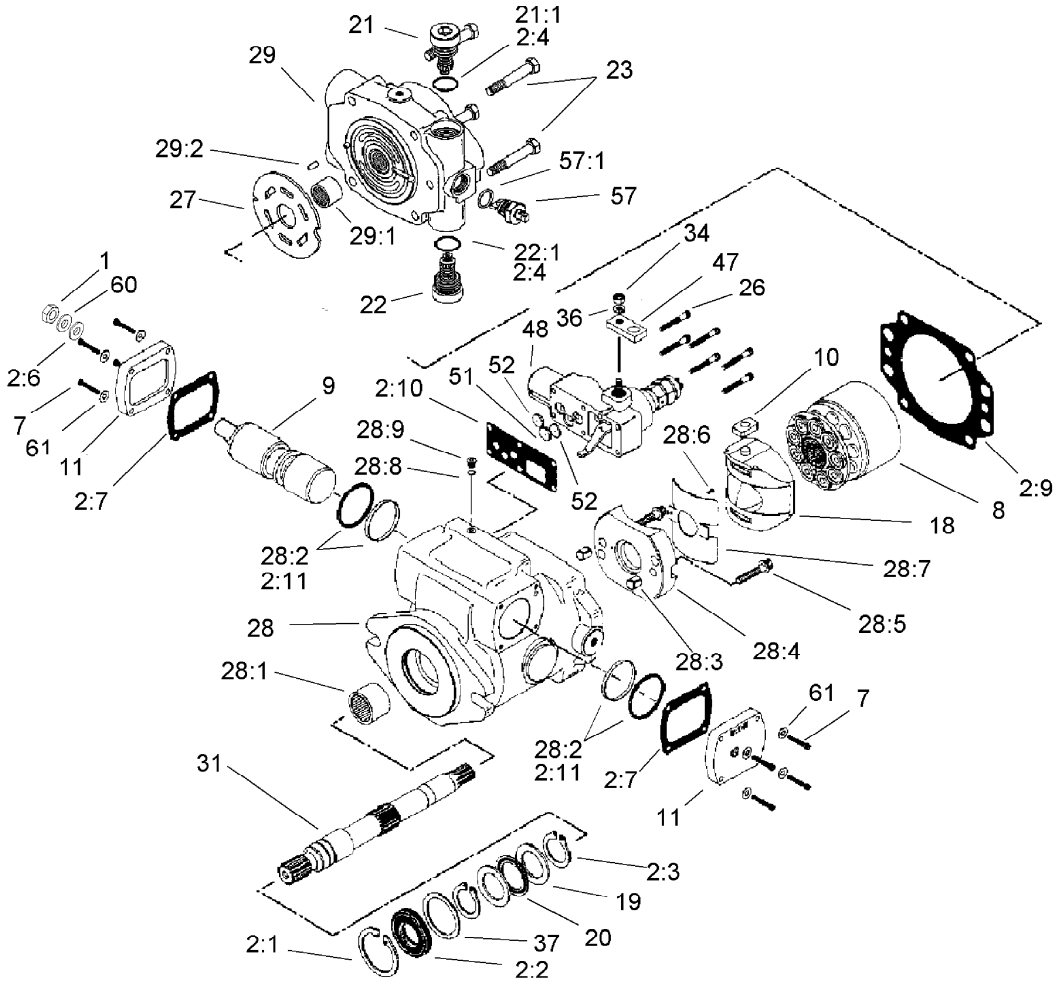
Piston Pump Assembly No. 110-0464

Ref.	Part Number	Qty.	Description
1	3220-2	1	Nut-Jam
2	107-1561	1	Seal Kit
2:1	60-6260	1	Ring
2:2	105-3331	1	Seal-Shaft
2:3	76-7000	2	Ring-Retaining
2:4		2	Seal-Dust ■
2:5	93-6314	2	O-Ring ●
2:6	94-3027	1	Washer-Seal
2:7	93-6339	2	Gasket
2:8	105-2905	1	O-Ring ●
2:9	105-2900	1	Gasket-Housing
2:10	105-2901	1	Gasket-Housing, Control
2:11		2	Seal ASM ■
2:12	74-9380	1	O-Ring ●
7	3274-81	8	Screw-HSH
8	105-9851	1	Rotating Kit
9	105-4572	1	Servo Piston ASM
10	94-3032	1	Follower-Piston
11	105-9853	1	Plate-Cover
18	94-3026	1	Camplate ASM
19	76-6950	2	Race-Thrust
20	76-6960	1	Bearing-Thrust
21	105-2857	1	Valve-Relief
21:1		1	Seal-Dust ■
22	105-2857	1	Valve-Relief

Ref.	Part Number	Qty.	Description
22:1		1	Seal-Dust ■
23	323-45	4	Screw-HH
26	3274-59	6	Screw-HSH
27	105-9854	1	Plate-Valve
28	105-9855	1	Housing ASM
28:1		1	Bearing ■
28:2		2	Seal ASM ■
28:3		2	Dowel-Bushing ■
28:4		1	Cradle ASM ■
28:5		2	Washer ■
28:6		1	Washer ■
28:7		1	Bushing ■
28:8		1	Seal-Dust ■
28:9		1	Plug ■
29	105-9856	1	Backplate ASM
29:1		1	Bearing ■
29:2		1	Pin-Roll ■
31	105-2861	1	Shaft-Drive
34	3217-5	1	Nut-Hex
36	3253-3	1	Washer-Lock
37	60-6240	1	Washer
47	110-0036	1	Arm-Control
48	108-1503	1	Manual Servo Control ASM
51	105-2909	1	Orifice-Control, .036 Dia
52	94-3041	2	Orifice-Control (.028 Dia)

● Not illustrated

■ Not serviced separately

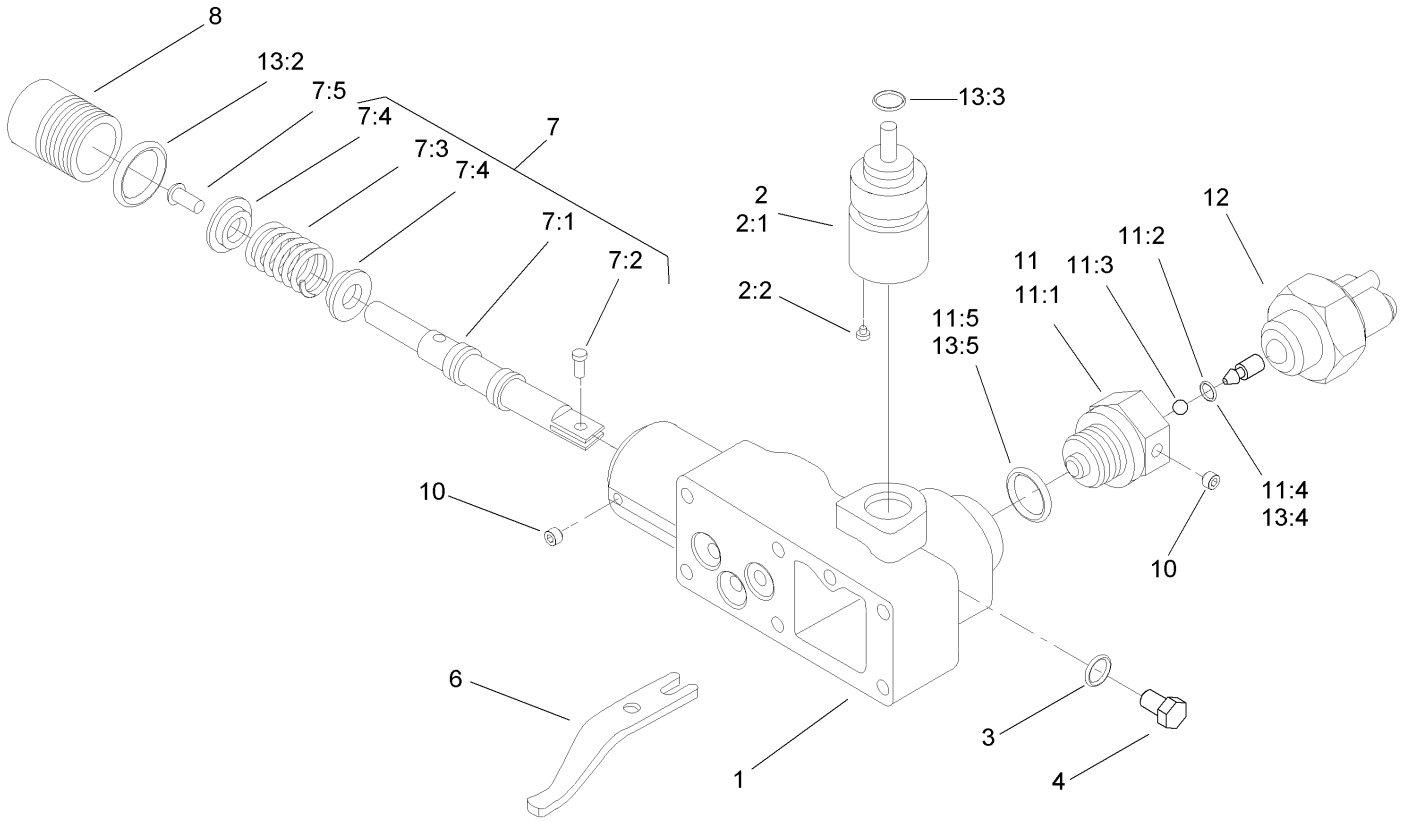


Piston Pump Assembly No. 110-0464 (continued)

Ref.	Part Number	Qty.	Description
57	105-2864	1	Valve-Bypass
57:1		1	Seal-Dust ■
60	94-3030	1	Washer
61	3256-77	8	Washer-Flat

● Not illustrated

■ Not serviced separately



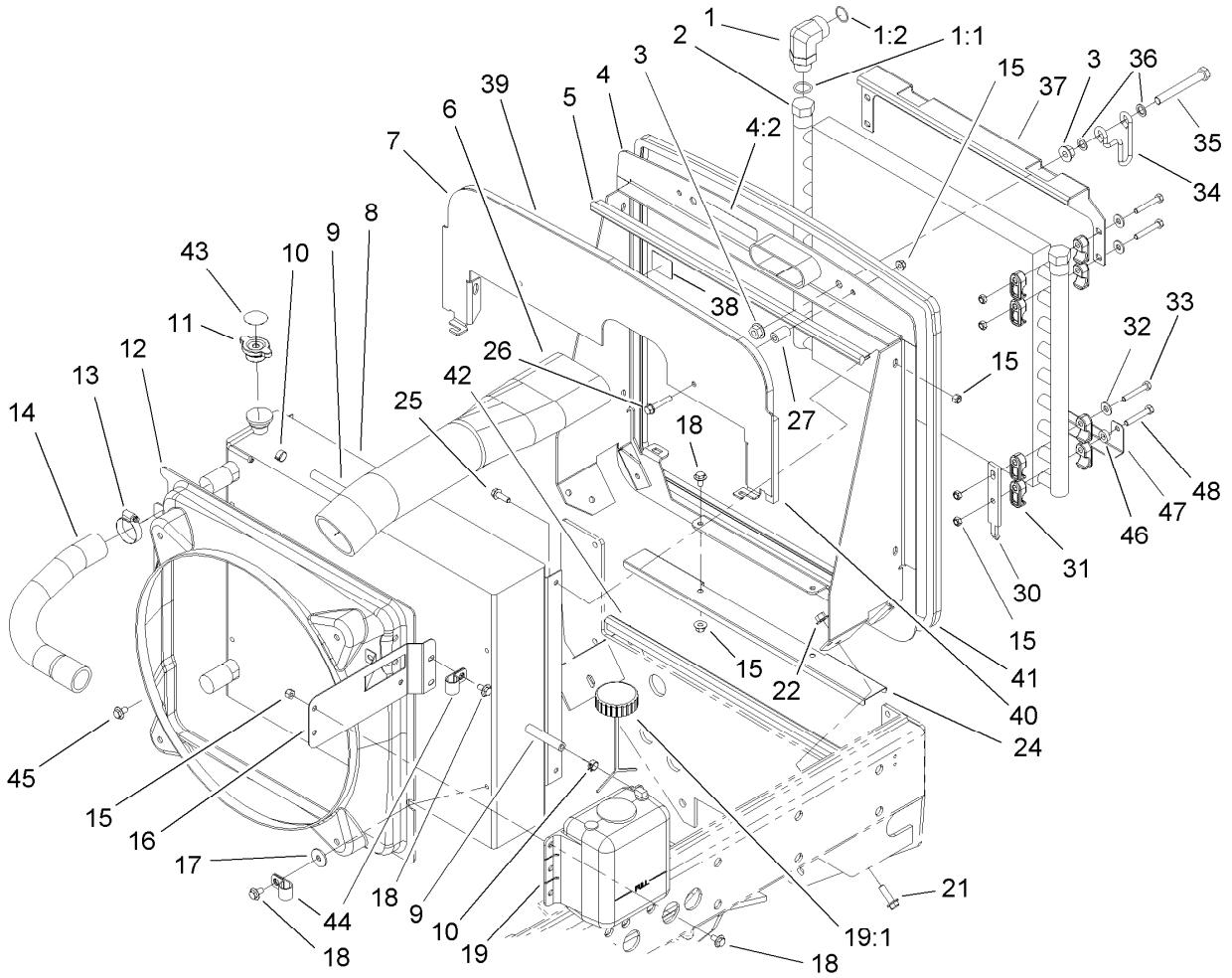
Control Assembly No. 108-1503

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	Seal-Dust ■
4		1	Plug ■
6		1	Link-Feedback ■
7	108-7098	1	Valve Spool ASM
7:1		1	Valve-Spool ■
7:2		1	Pin-Dowel ■
7:3		1	Spring ■
7:4		2	Retainer ■
7:5		1	Screw ■
8		1	Plug ■

Ref.	Part Number	Qty.	Description
10		2	Screw-Set ■
11	108-8003	1	Adaptor ASM
11:1		1	Adaptor-Neutral Lockout ■
11:2		1	Pin ■
11:3		1	Ball ■
11:4		1	Seal-Dust ■
11:5		1	Seal-Dust ■
12	94-3043	1	Switch-Safety, Neutral
13	94-3044	1	Seal Kit
13:1		1	Seal-Dust ■ ●
13:2		1	Seal-Dust ■
13:3		1	Seal-Wiper ■
13:4		1	Seal-Dust ■
13:5		1	Seal-Dust ■

● Not illustrated

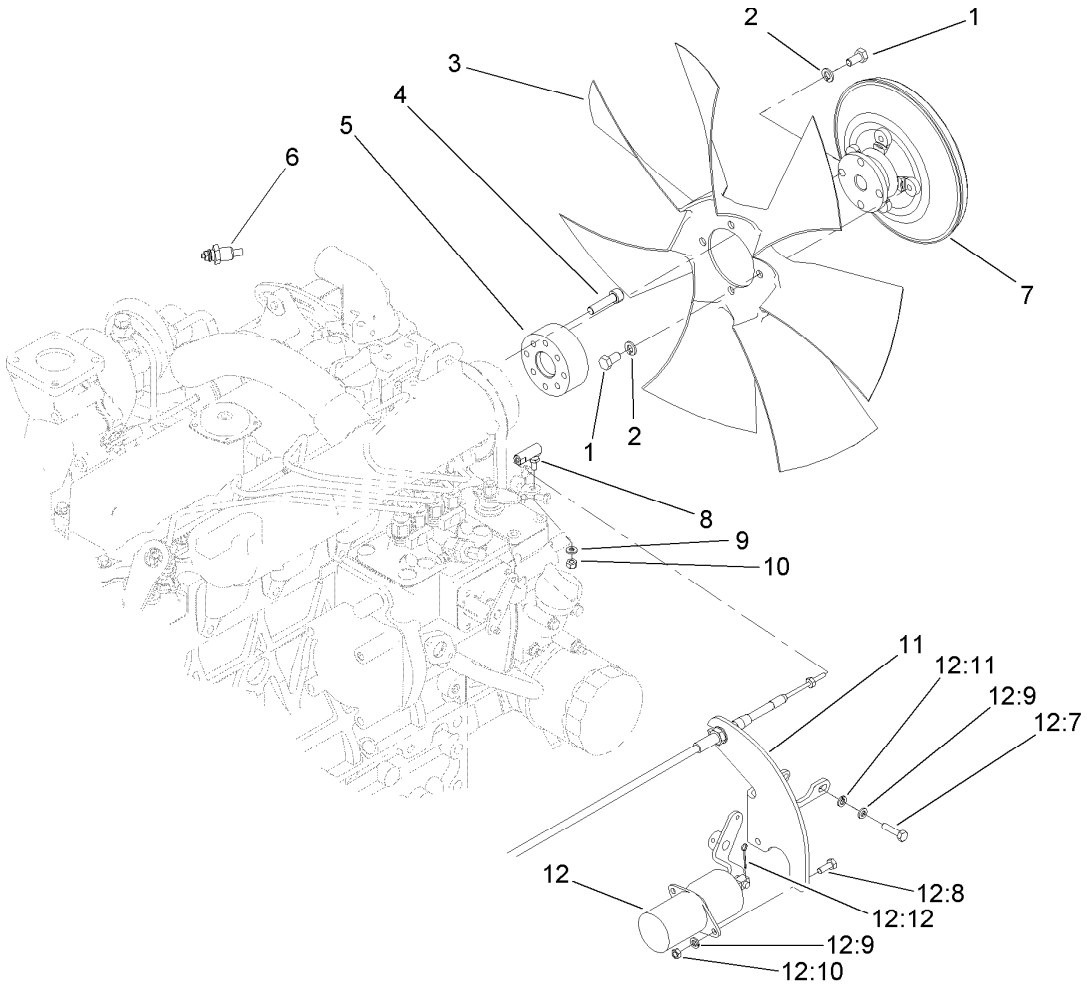
■ Not serviced separately



Radiator Assembly

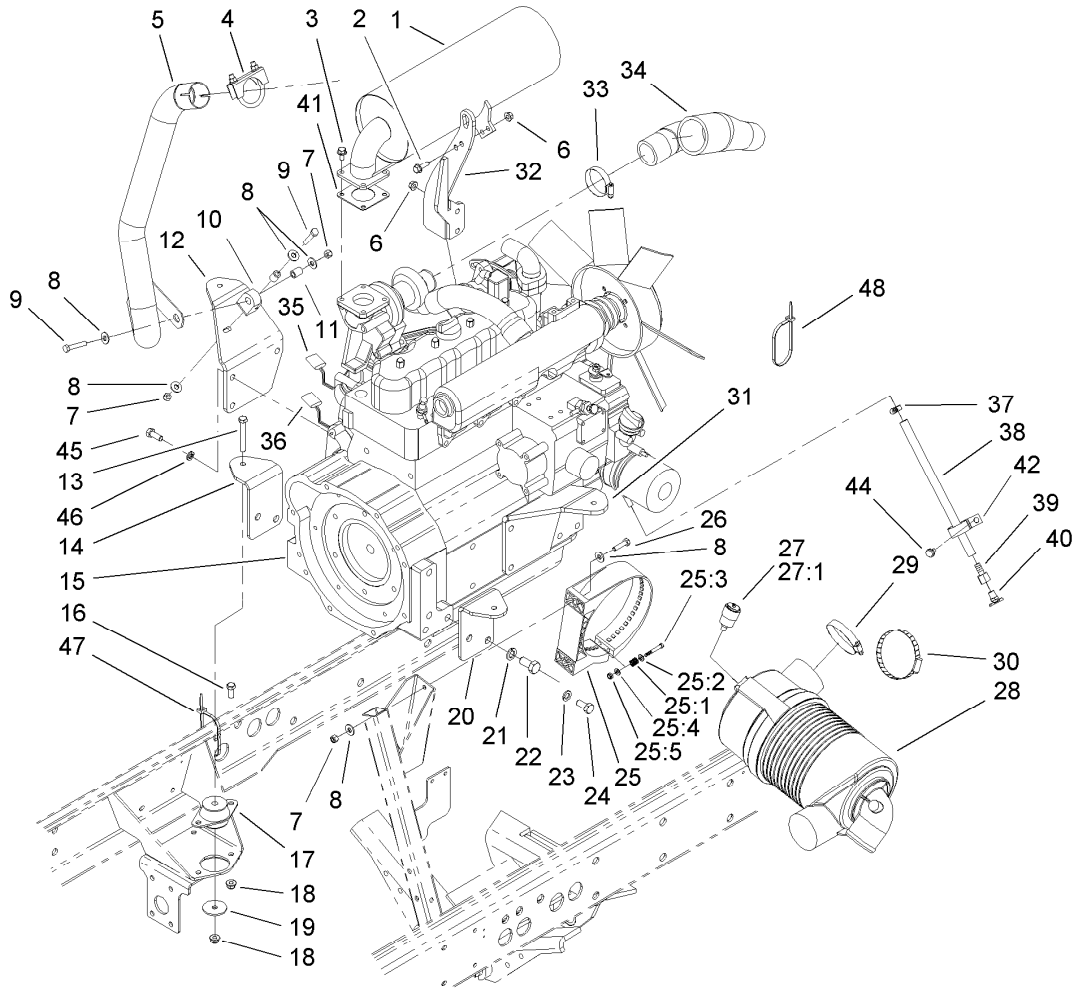
Ref.	Part Number	Qty.	Description
1	104-3796	2	Fitting-HYD, 90 DEG
1:1	237-81	1	O-Ring
1:2	340-65	1	O-Ring
2	108-4008	1	Cooler-Oil
3	32128-49	4	Nut-HHF
4	105-3994	1	Bracket-Radiator
4:2	93-7272	1	Decal-Warning
5	104-2223	1	Seal-Bulb
6	100-5550	1	Hose-Cleaner, Air
7	105-3934-03	1	Bracket-Seal, Hood
8	107-0244	1	Radiator
9	110-3258	2	Hose-Fuel
10	92-2379	3	Clamp-Hose
11	93-5957	1	Cap-Radiator
12	99-5428	1	Shroud-Radiator
13	2412-111	4	Clamp
14	100-5547	2	Hose-Radiator
15	104-8300	19	Nut-Flange, NI
16	100-5505-03	1	Bracket-Tank
17	99-2900	4	Washer-Flat
18	3234-7	9	Screw-HHF
19	104-2276	1	Reservoir-Coolant
19:1	87-7050	1	Cap-Reservoir
21	3234-11	4	Screw-HHF

Ref.	Part Number	Qty.	Description
22	32128-43	4	Nut-Flange
24	104-5426-03	1	Cover-Bottom
25	3234-17	4	Screw-HHF
26	94-5780	2	Screw-HWH
27	93-6981	2	Spacer
30	104-5460-03	2	Plate-Mount, Oil Cooler
31	105-3943	16	Clamp-Cooler, Oil
32	3256-23	12	Washer-Flat
33	322-10	6	Screw-HH
34	104-5429	2	Clamp-Form, Wire
35	325-17	2	Screw-HH
36	41-8440	4	Washer
37	104-5428	1	Bracket-Oil Cooler, Top
38	93-7275	1	Decal-Fluid, Starting
39	105-9233	1	Seal-Foam
40	105-9236	2	Seal-Foam
41	105-9814	1	Seal-Bulb
42	105-9858	1	Seal-Bulb
43	106-6755	1	Decal-Cap, Radiator
44	2412-81	2	Clamp-R
45	3234-28	2	Screw-HHF
46	104-1156	2	Spacer
47	108-4019-03	1	Bracket-Cooler, Oil
48	322-11	2	Screw-HH



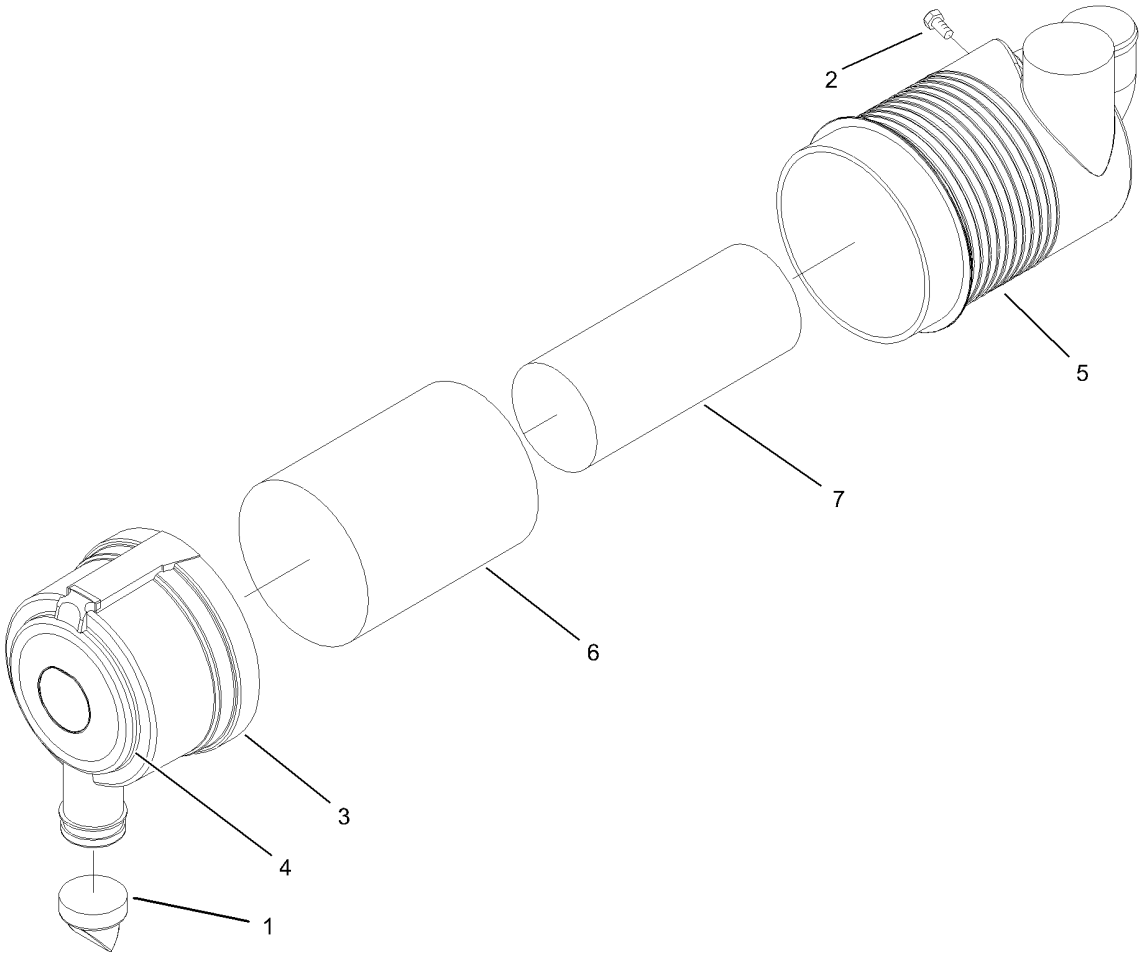
Fan and Solenoid Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	322-2	8	Screw-HH
2	3253-4	8	Washer-Lock
3	105-0750	1	Fan
4	52-6290	4	Screw-HSH
5	100-3066	1	Adapter-Fan
6	98-9346	1	Sender-Temperature
7	104-2212	1	Clutch-Fan
8	2411-38	1	Joint-Ball
9	3256-51	1	Washer-Flat
10	3296-21	1	Nut-Lock, NI
11	104-7540-03	1	Support-Cable
12	98-3817	1	Solenoid Kit
12:7	33113-025	3	Screw-HH
12:8	33113-016	2	Screw-HH
12:9	48-8020	5	Washer-Spring
12:10	33013-00	2	Nut-Hex
12:11	33093-00	3	Washer-Flat
12:12	3272-2	1	Pin-Cotter



Engine Installation Assembly

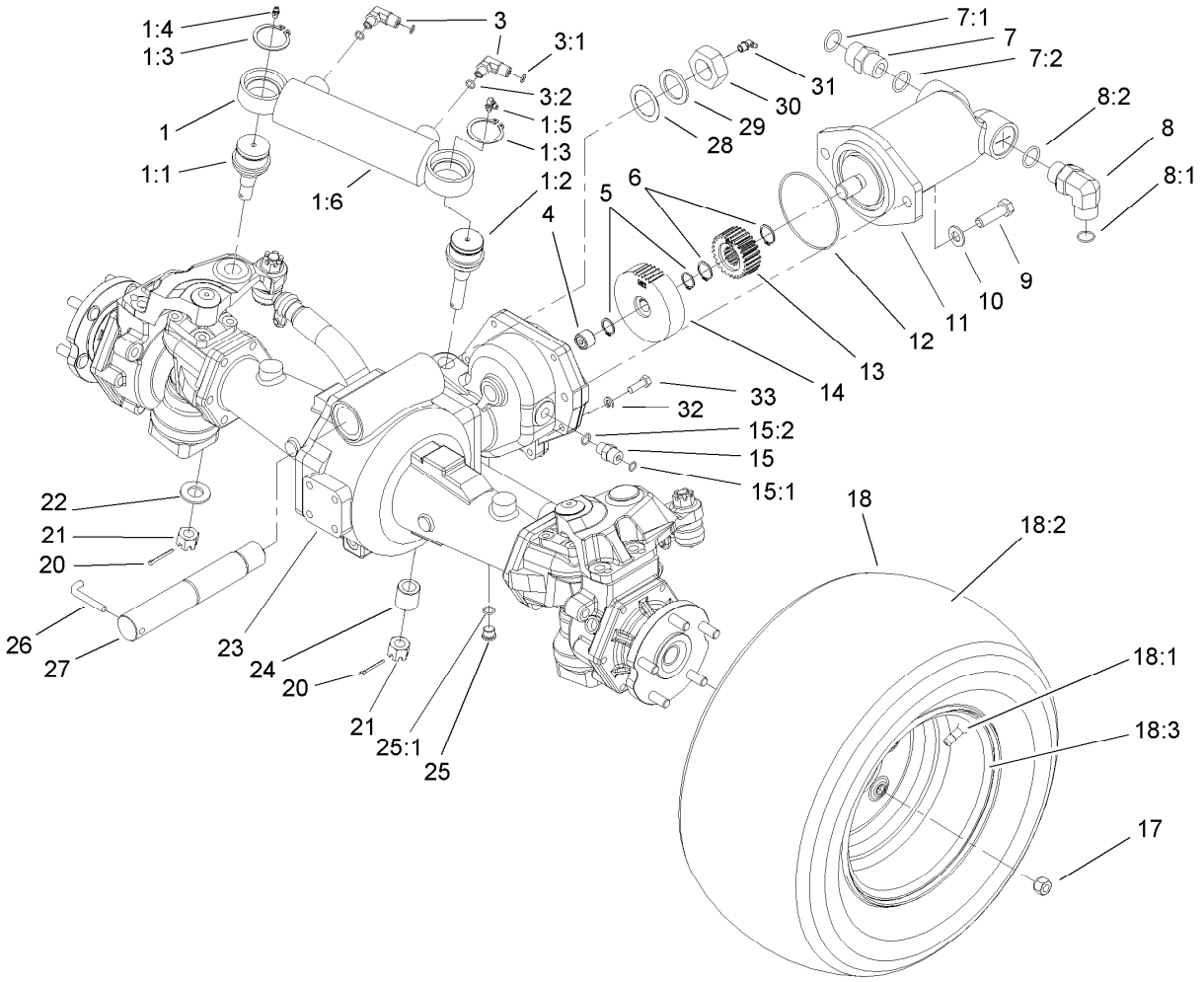
Ref.	Part Number	Qty.	Description
1	99-5424	1	Muffler-Turbo
2	33104-025	2	Screw-HHF
3	33104-016	4	Screw-HHF
4	18-2130	1	Clamp ASM
5	104-5461	1	Pipe-Exhaust
6	33004-00	4	Nut-HF
7	3296-29	4	Nut-Lock, NI
8	3256-3	8	Washer-Flat
9	322-9	2	Screw-HH
10	95-5622	1	Hanger-Rubber
11	93-5023	2	Spacer
12	106-2048-03	1	Mount-Engine, RH
13	323-13	4	Screw-HH
14	100-3148-03	1	Mount-Engine, RH
15	107-4302	1	Engine-Turbo, Kubota
16	3234-11	10	Screw-HHF
17	53-9682	4	Mount-Engine-Green
18	104-8301	14	Nut-Flange, NI
19	63-7400	4	Washer-Rebound
20	100-3147-03	1	Mount-Engine, LH
21	43-5950	4	Washer-Lock, Spring
22	43-3210	4	Screw-HH
23	48-8070	5	Washer-Lock
24	42-9250	5	Bolt
25	99-5414	1	Strap-Cleaner, Air
25:1	108-1512	2	Spring
25:2	3256-22	2	Washer-Flat
25:3	33113-050	2	Screw-HH
25:4	33093-00	2	Washer-Flat
25:5	33023-00	2	Nut-Lock
26	322-6	2	Screw-HH
27	104-3563	1	Indicator
27:1	94-1416	1	Indicator Adapter ASM
28	99-5410	1	Cleaner-Air
29	2412-125	1	Clamp-Hose
30	2412-110	1	Clamp-Hose
31	106-2049-03	1	Mount-Engine, LH
32	99-5421-03	1	Bracket-Mounting
33	2412-92	1	Clamp-Hose
34	99-5415	1	Hose-Cleaner, Air
35	99-3441	1	Harness-Wire, Fusible Link
36	105-9869	1	Harness-Wire, Engine
37	2412-108	2	Clamp-Worm
38	99-7376	1	Hose-Breather
39	354-94	1	Fitting-Female, Barbed
40	93-5528	1	Fitting-Cock, Drain
41	100-9333	1	Gasket-Muffler
42	2412-150	1	Clip-J
44	32144-14	1	Screw-HWHTF
45	43-0090	1	Screw-HH
46	48-9590	1	Washer-Lock
47	3290-378	3	Tie-Cable
48	3290-379	2	Tie-Cable



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

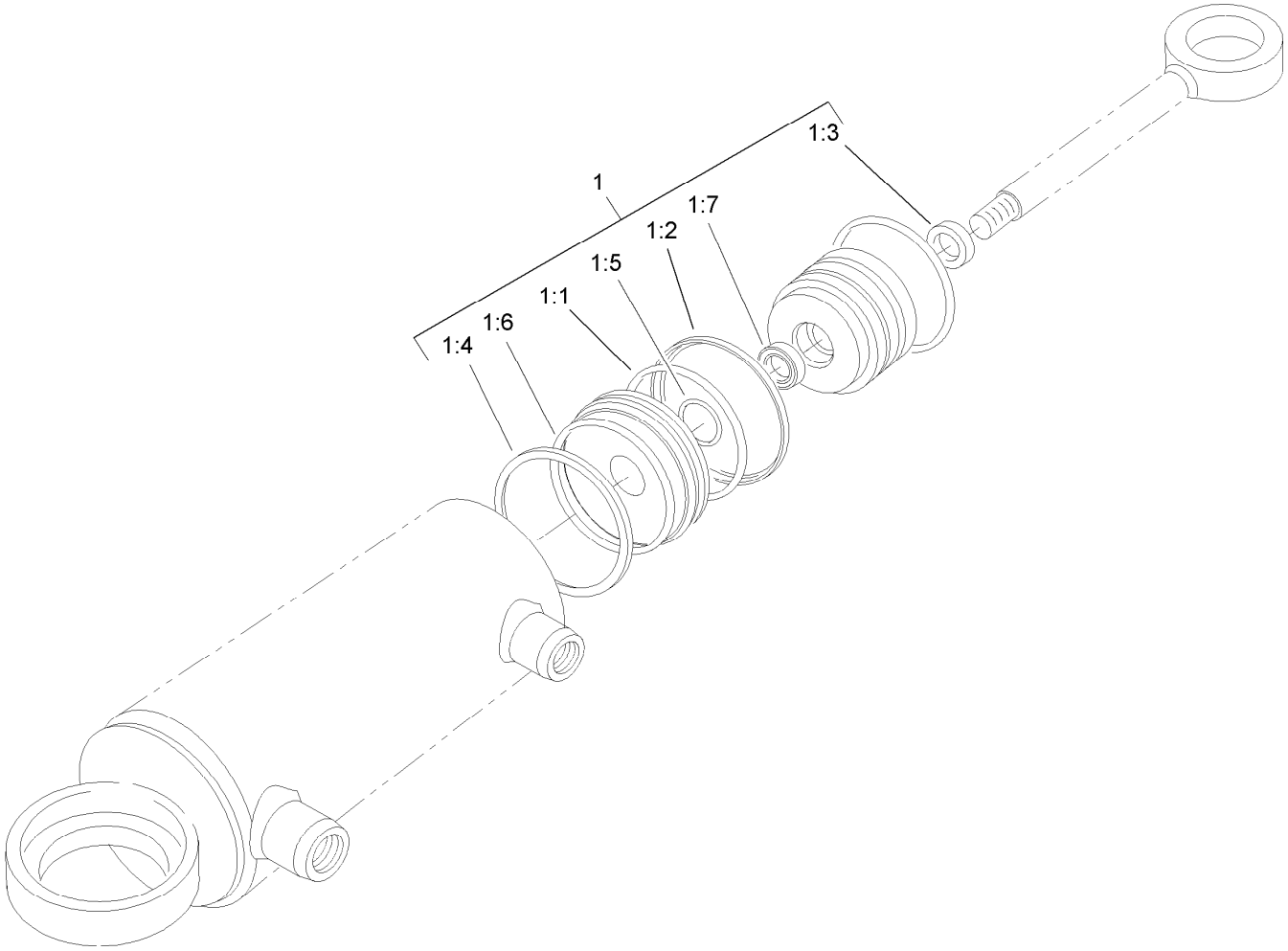


Rear Axle Assembly

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-HYD, 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	104-0755	1	Pinion-27 Tooth

Ref.	Part Number	Qty.	Description
14	100-3053	1	Gear-45 Tooth
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	100-3771	1	Pin-Stop
27	100-3770	1	Pin-Axle, Pivot
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

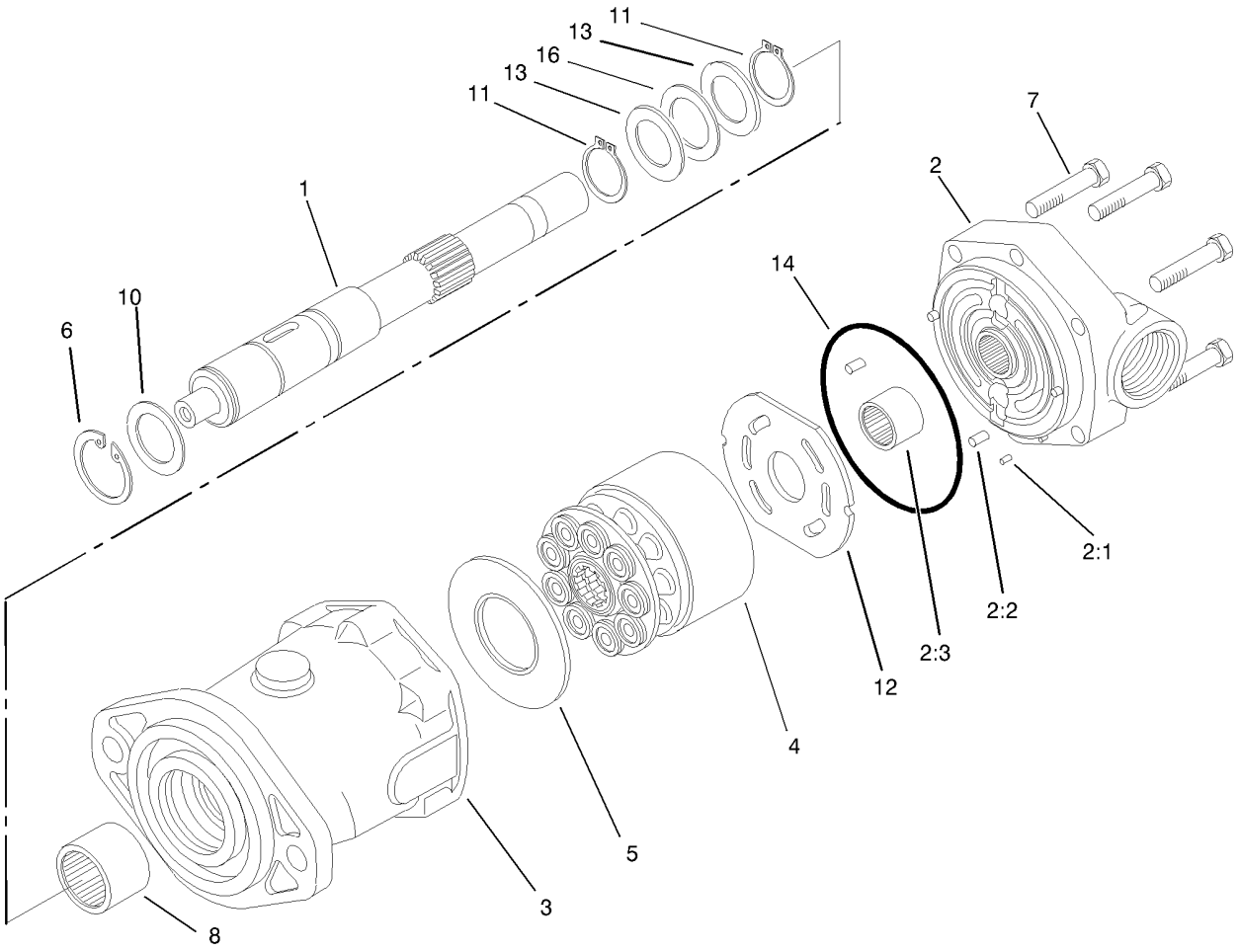
● Not serviced separately



Hydraulic Cylinder Assembly No. 107-1976

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 ●

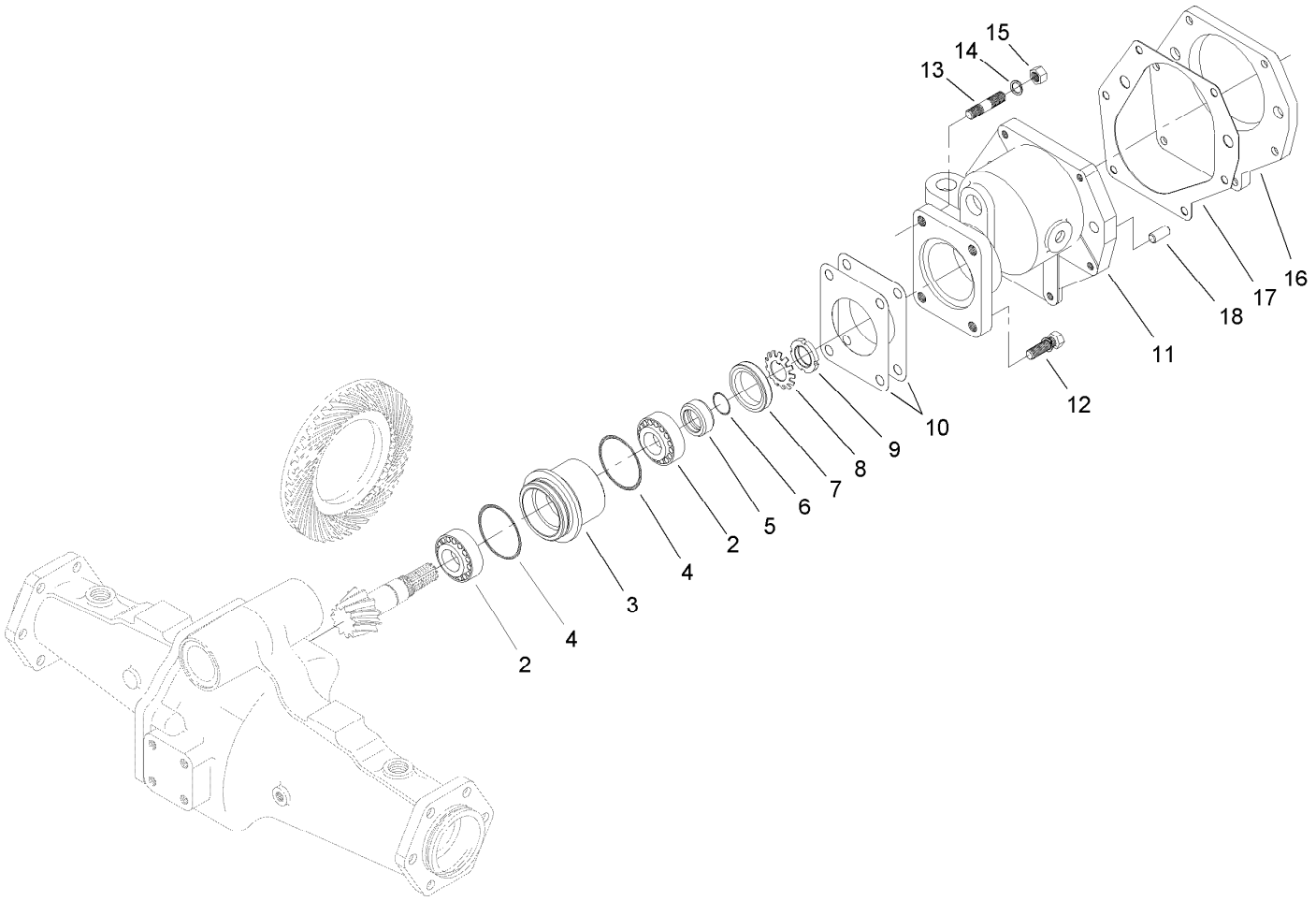
● Not serviced separately



Piston Motor Assembly No. 105-1219

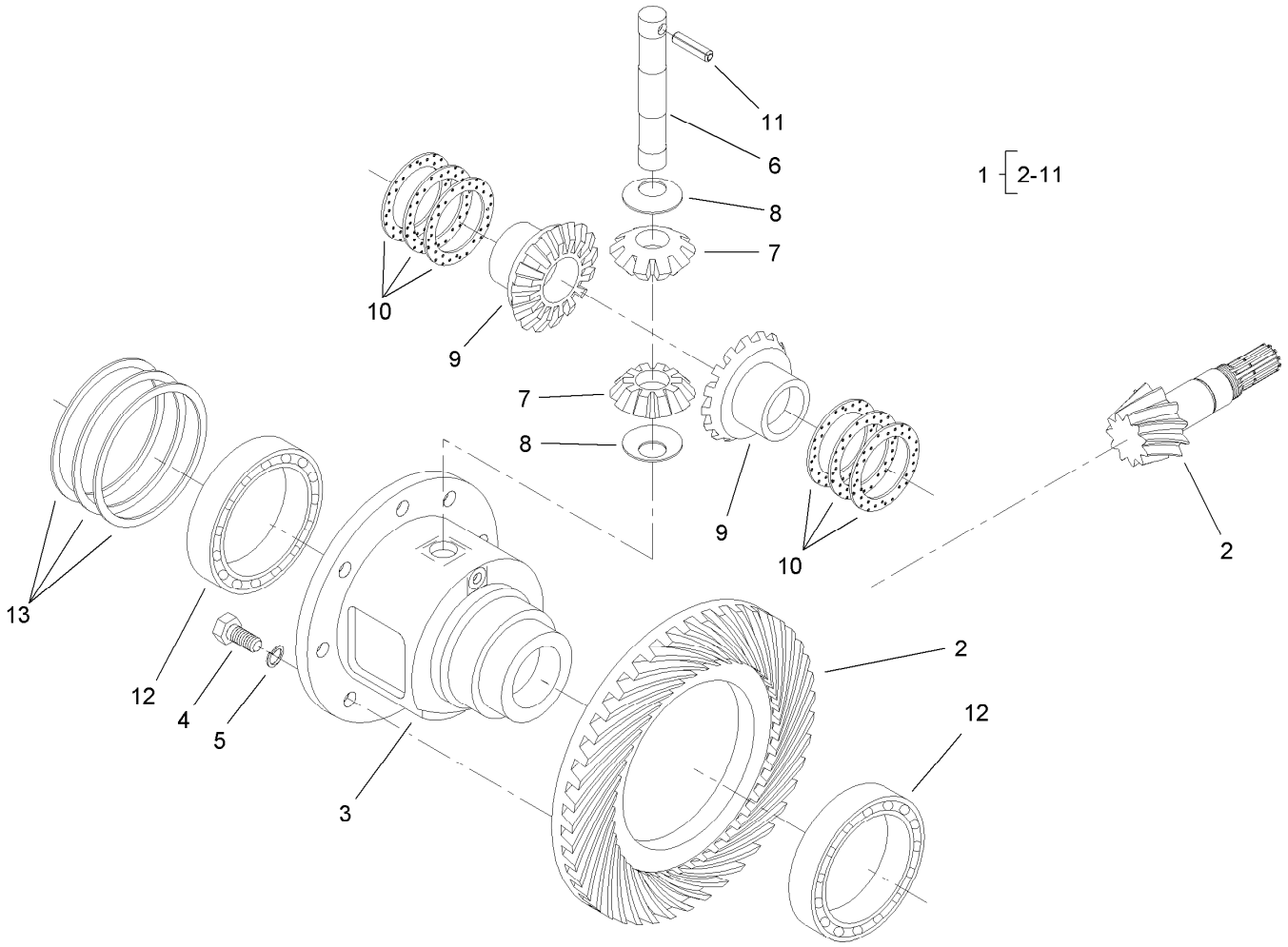
Ref.	*Part Number*	*Qty.*	*Description*
1	105-2853	1	Shaft-Drive
2	100-2551	1	Backplate
2:1		3	Pin-Dowel ●
2:2		1	Pin-Dowel ●
2:3		1	Bearing-Needle ●
3		1	Housing ●
4	76-6910	1	Rotating Kit
5	76-6970	1	Insert-Plate, Cam
6	60-6260	1	Ring
7	94-3002	6	Capscrew
8	63-4390	1	Bearing-Needle
10	76-7020	1	Spacer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



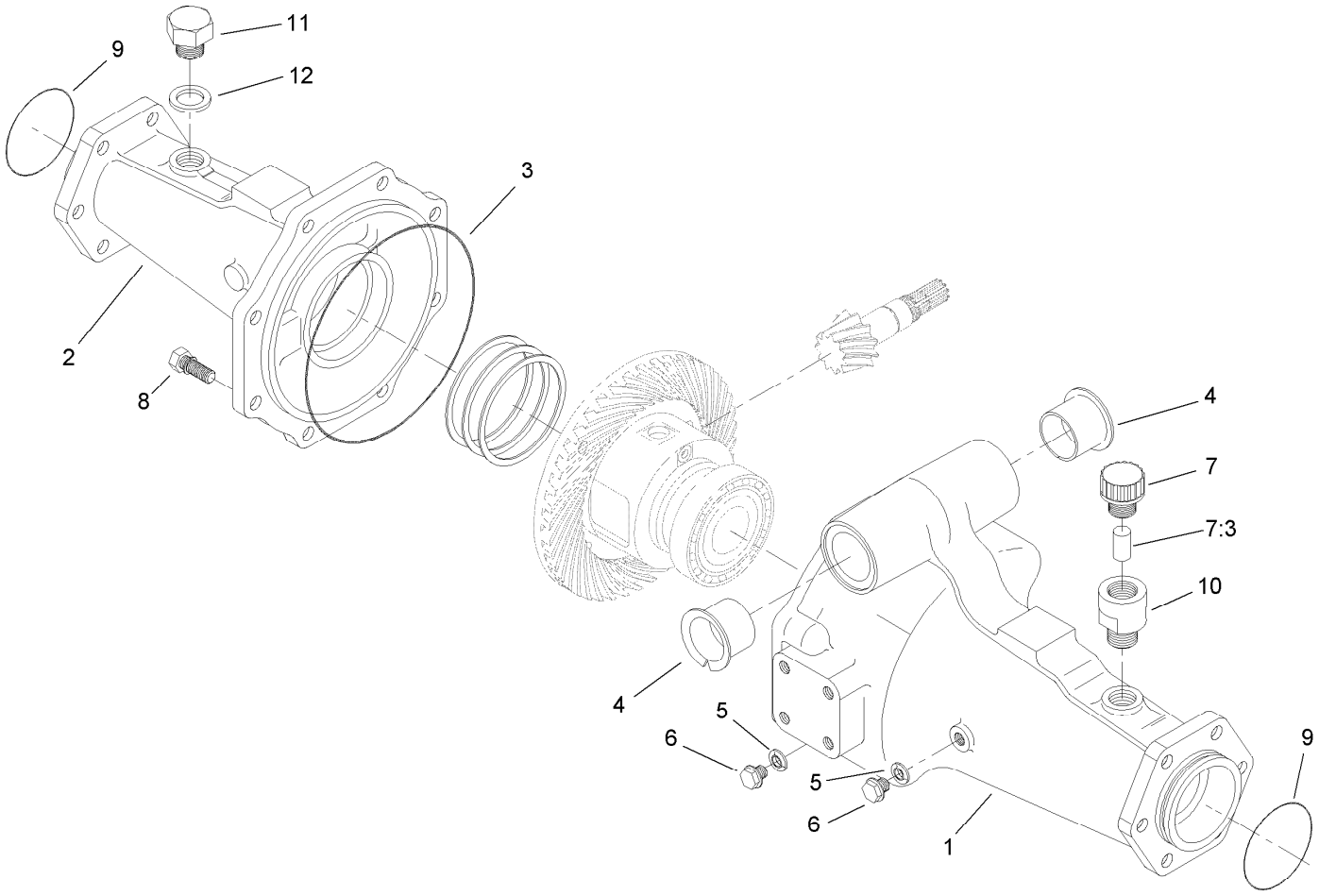
Bevel Pinion Shaft Assembly
Rear Axle Assembly No. 110-4750

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	95-7540	1	Gasket
18	104-2353	2	Pin-Dowel



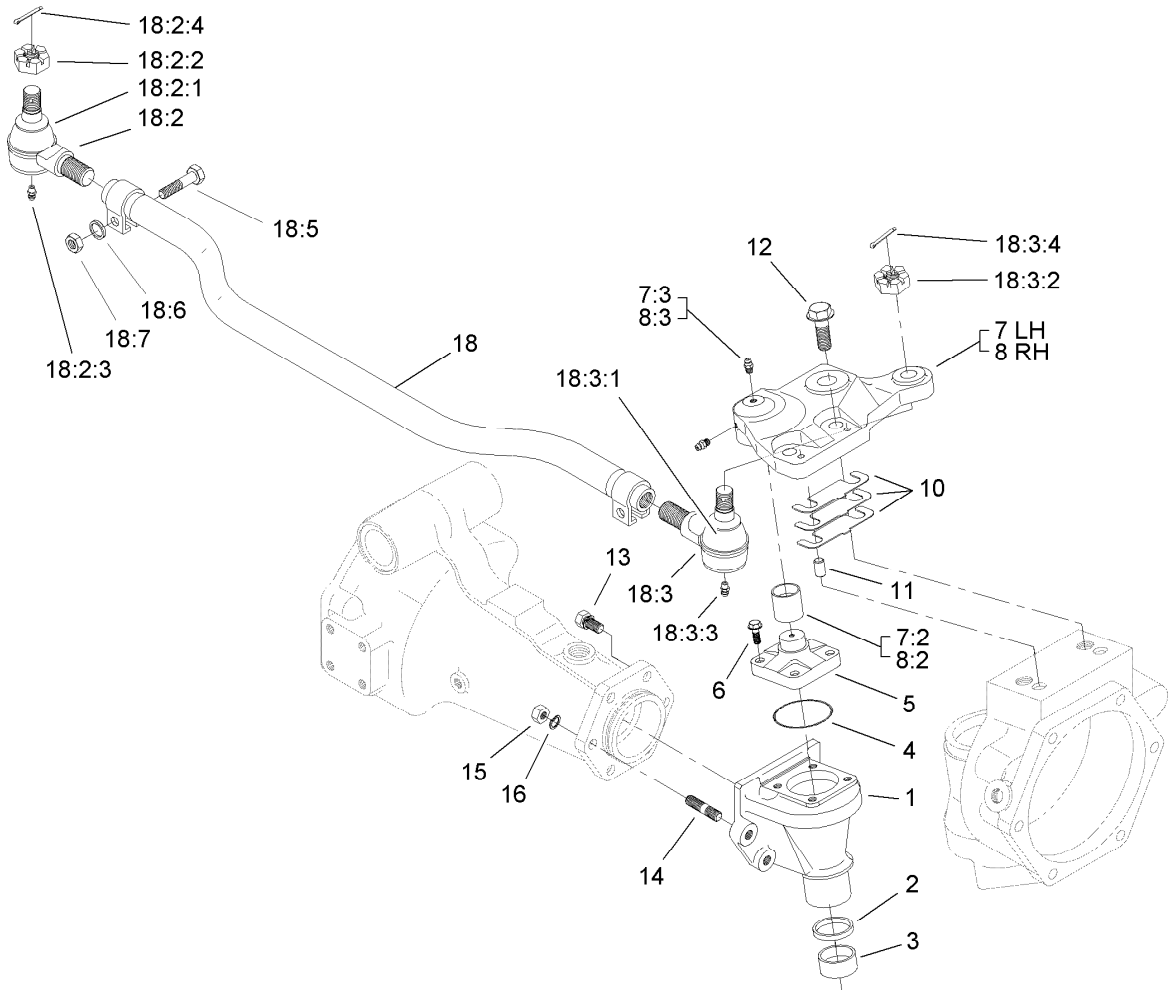
Differential Assembly
Rear Axle Assembly No. 110-4750

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

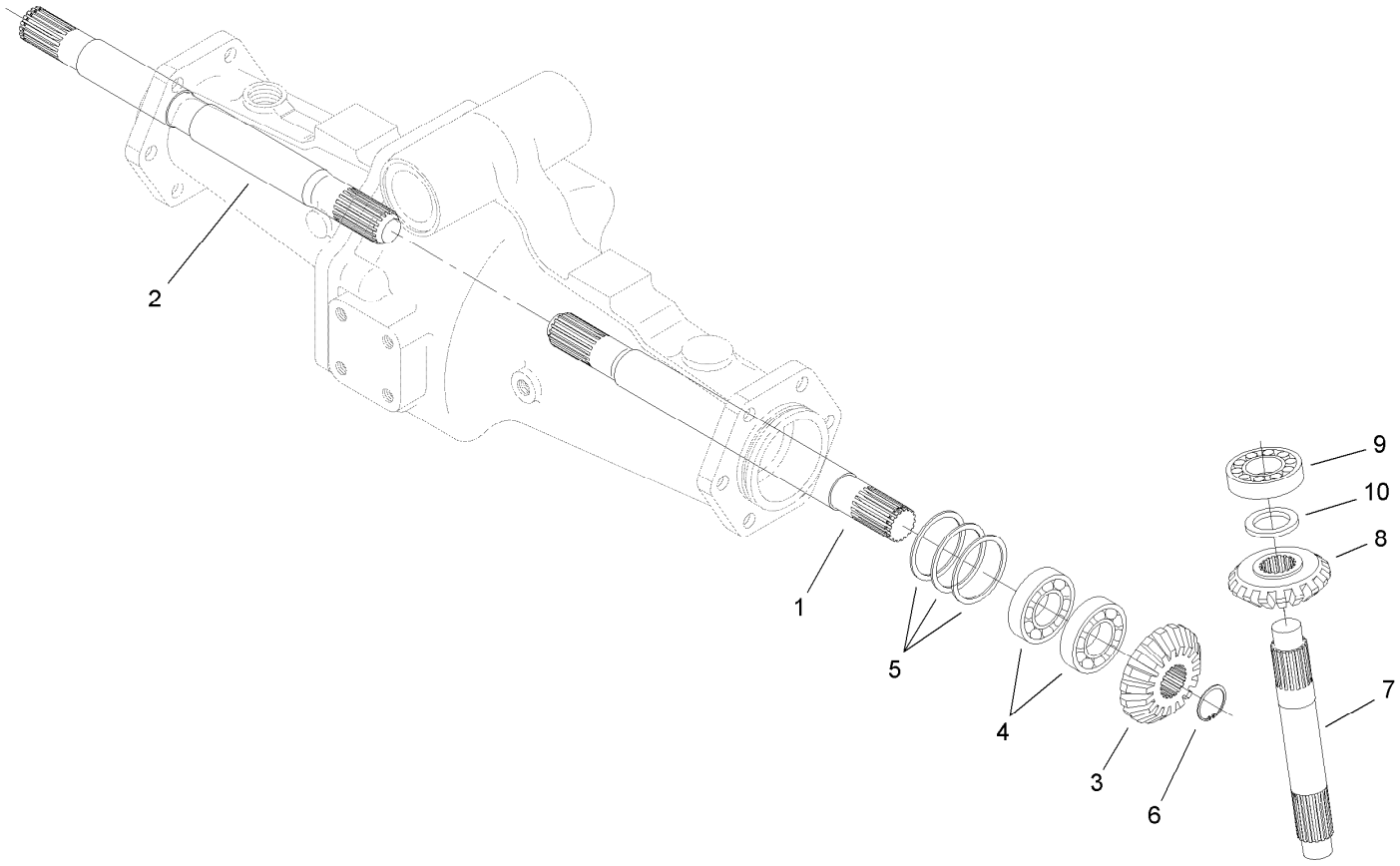
Ref.	*Part Number*	*Qty.*	*Description*
1	95-7508	1	Support-Axle
2	95-7506	1	Support-Axle
3	106-1067	1	O-Ring
4	95-7537	2	Bushing-Flanged
5	99-7590	2	Washer-Seal
6	99-7589	2	Plug
7	110-4812	1	Axle Vent ASM
7:3	110-4815	1	Insert-Filter, Foam
8	99-7592	8	Bolt
9	106-1068	2	O-Ring
10	104-2377	1	Extension-Vent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



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

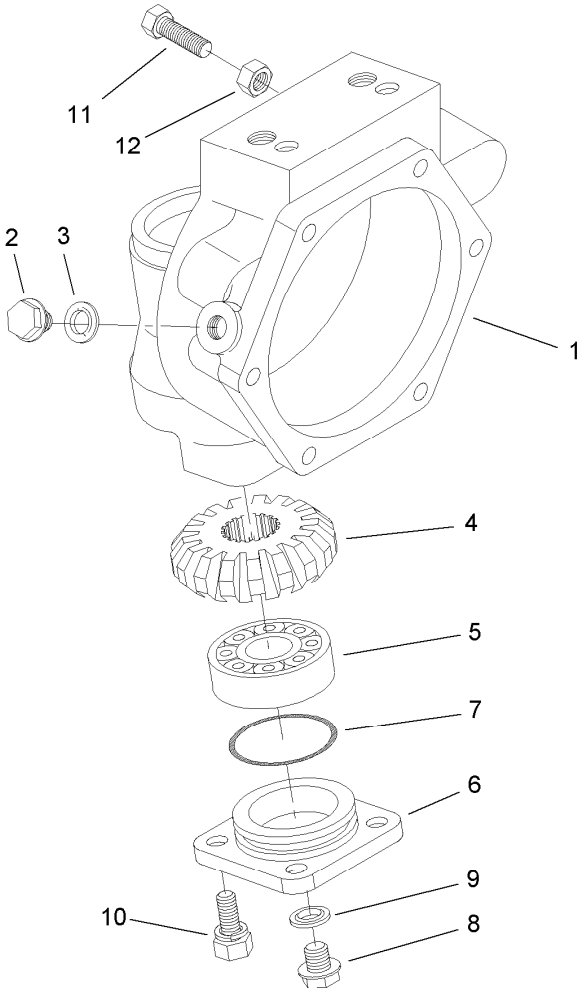
Ref.	Part Number	Qty.	Description
1	110-4752	2	Case-Gear, Bevel
2	110-4754	2	Seal-Oil
3	104-2378	2	Bushing
4	106-1069	2	O-Ring
5	104-2373	2	Knuckle
6	104-2374	8	Bolt
7	100-3768	1	LH Steering Arm ASM
7:2	104-8634	1	Bushing
7:3	106-1104	2	Fitting-Grease
8	100-3766	1	RH Steering Arm ASM
8:2	104-8634	1	Bushing
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
12	104-2375	4	Bolt
13	99-7599	8	Bolt
14	99-7525	4	Stud

Ref.	Part Number	Qty.	Description
15	99-7526	4	Nut
16	99-7527	4	Washer-Spring
18	106-1111	1	Steering Tie Rod ASM
18:2	106-1113	1	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
18:3	106-1112	1	Tie Rod End ASM - LH Thread
18:3:1	100-3853	1	Cover-Dust
18:3:2	100-3854	1	Nut-Castle
18:3:3	110-4755	1	Fitting-Grease
18:3:4	3272-11	1	Pin-Cotter
18:5	100-3855	2	Bolt
18:6	99-7527	2	Washer-Spring
18:7	99-7526	2	Nut



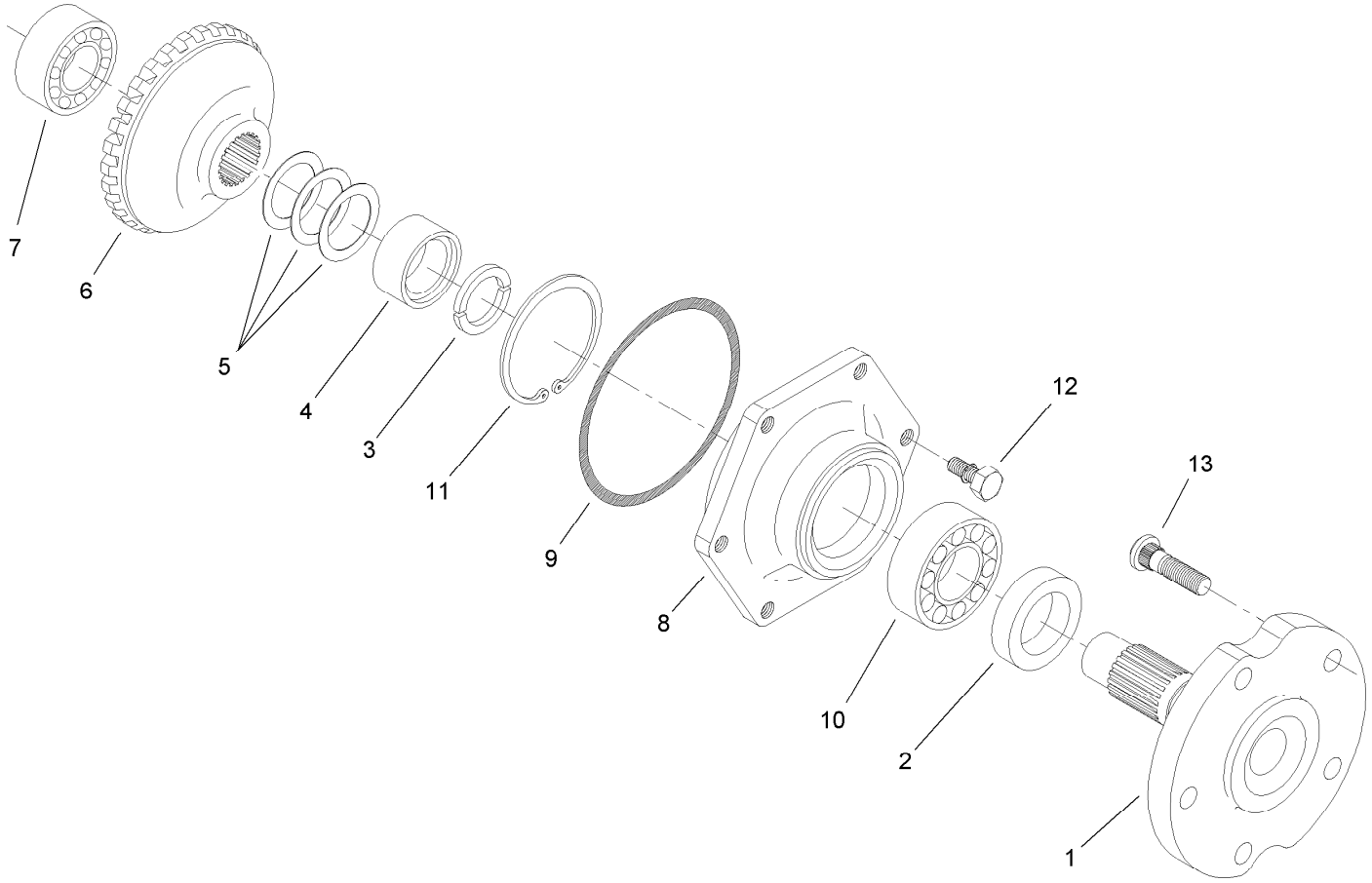
Bevel Gear Shaft Assembly
Rear Axle Assembly No. 110-4750

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



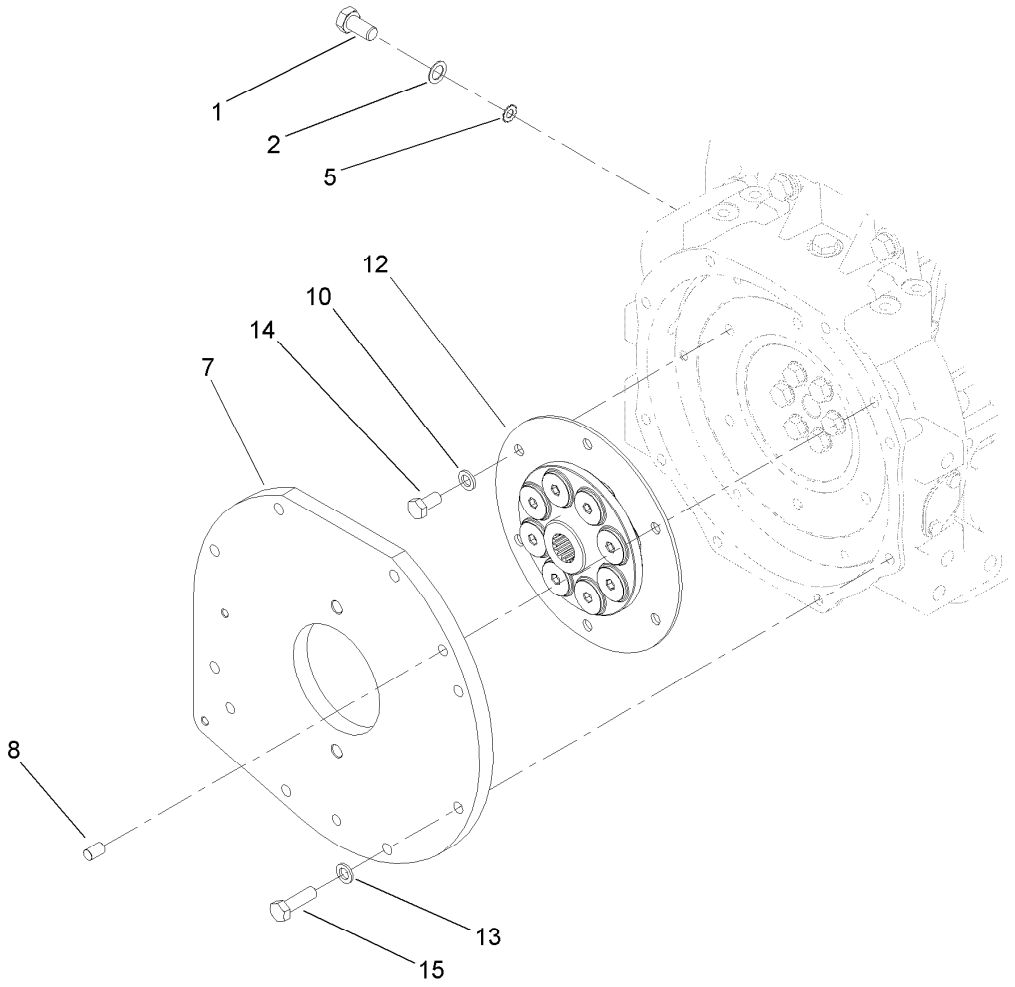
Axle Case Assembly
Rear Axle Assembly No. 110-4750

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



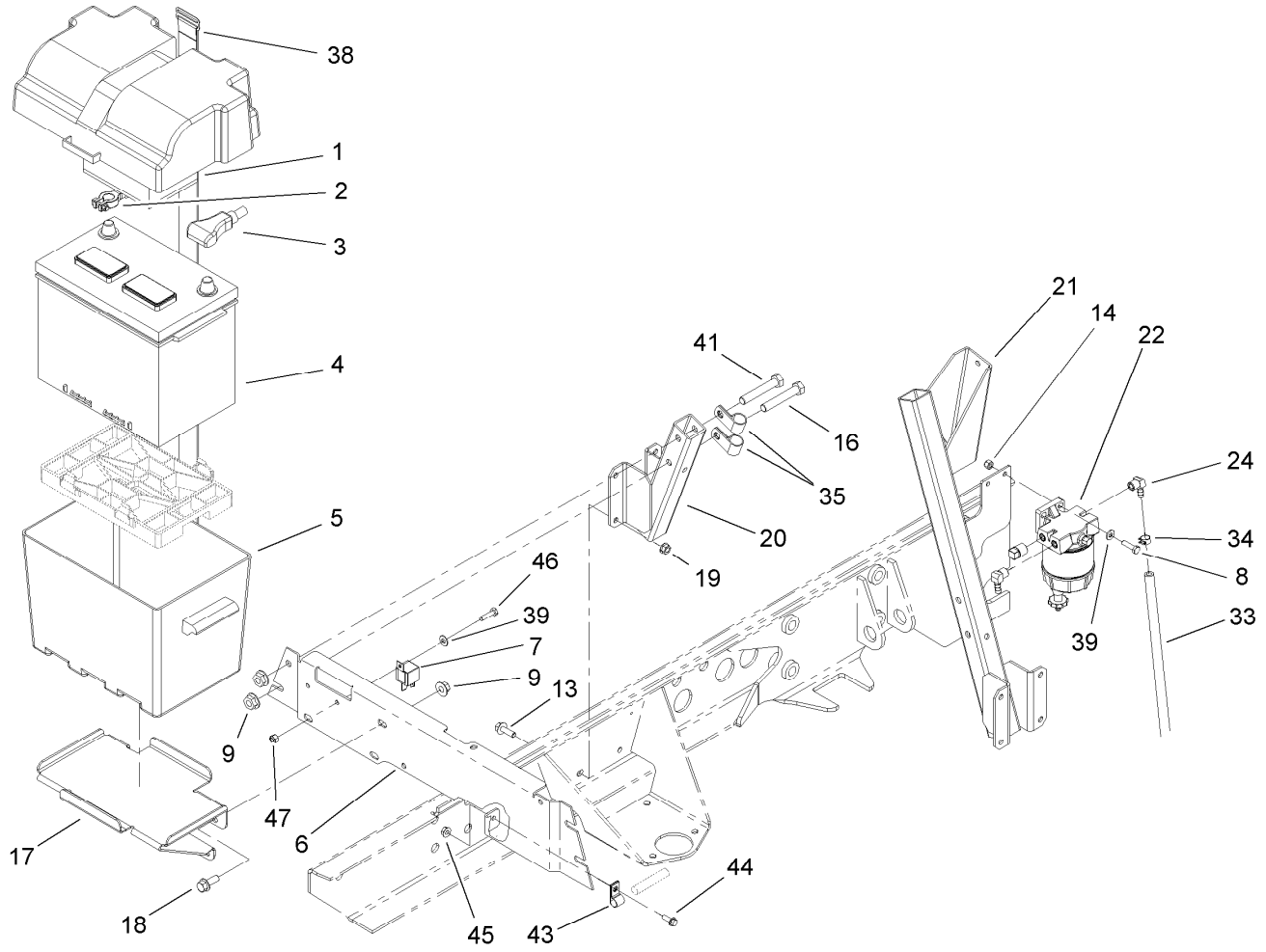
Axle Assembly
Rear Axle Assembly No. 110-4750

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



Coupler and Adapter Plate Assembly

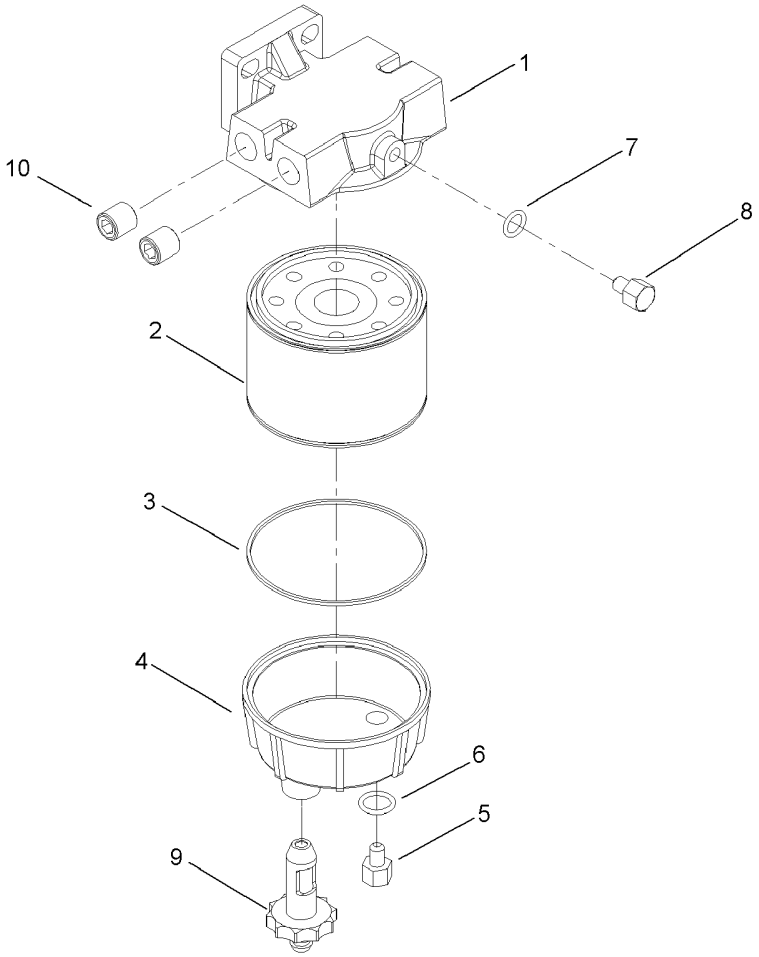
Ref.	*Part Number*	*Qty.*	*Description*
1	42-9250	1	Bolt
2	3255-2	1	Washer-Lock / EXT
5	3255-9	1	Washer-Lock
7	108-1544-03	1	Plate-Adapter
8	98-1212	2	Pin-Plate, Pump
10	107-1413	6	Washer-Hardened
12	110-6179	1	Coupler-Flywheel
13	48-9590	8	Washer-Lock
14	63-7790	6	Screw-Cap
15	56-2140	8	Screw-HH



Battery Installation Assembly

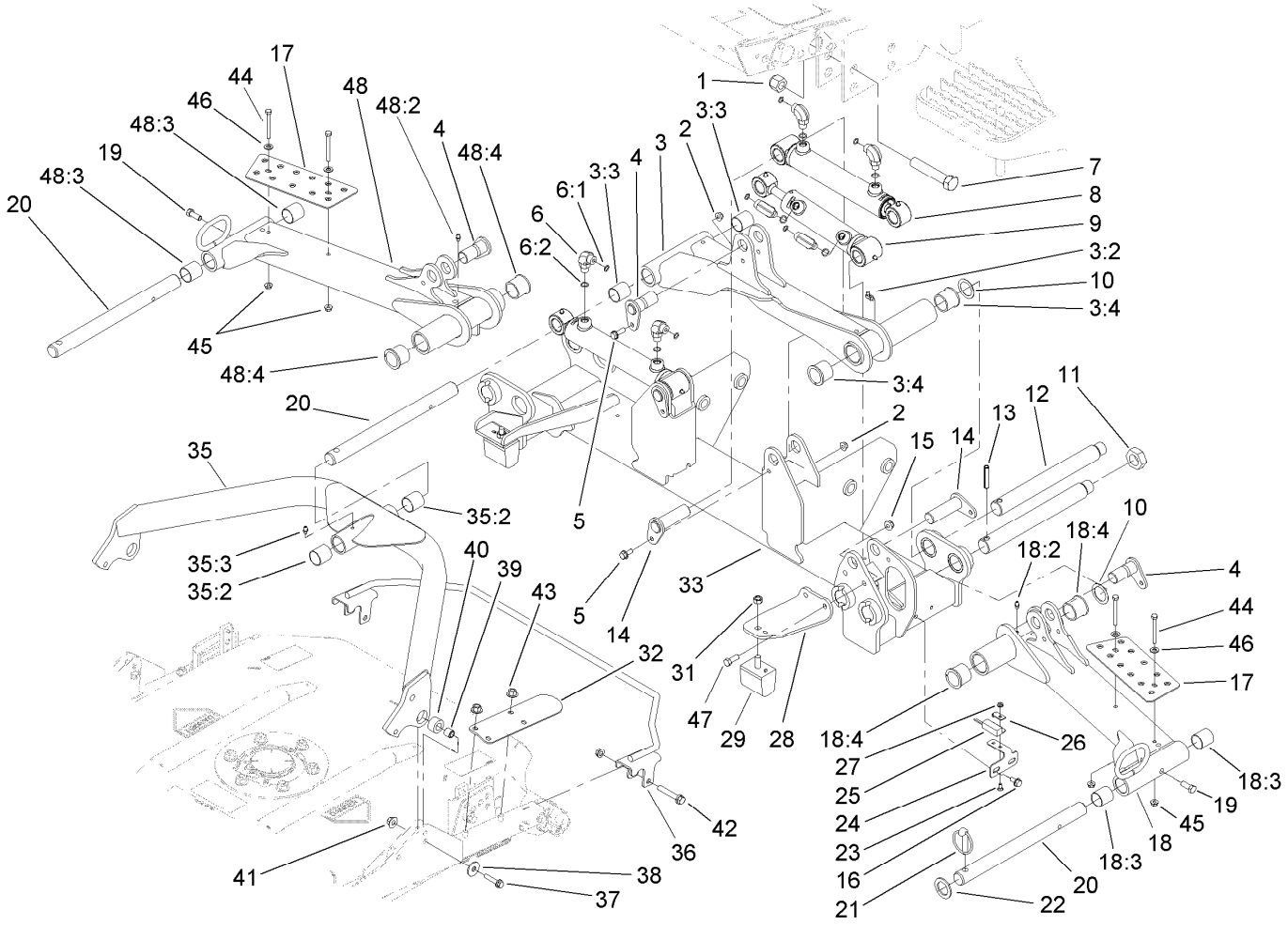
Ref.	Part Number	Qty.	Description
1	93-7968	1	Pad-Foam
2	105-3880	1	Cable-Battery, Negative
3	105-0114	1	Cable-Battery, Positive
4	106-5190	1	Battery
5	93-7595	1	Battery Box ASM
6	104-5422-03	1	Bracket-Support, Battery
7	99-7435	1	Relay-Power
8	321-6	2	Screw-HH
9	32128-21	6	Nut-HF
13	3234-29	8	Screw-HHF
14	3296-42	2	Nut-Lock, NI
16	323-10	3	Screw-HH
17	104-5423-03	1	Tray-Battery
18	3234-11	2	Screw-HHF
19	32128-20	8	Nut-HF

Ref.	Part Number	Qty.	Description
20	104-5420-03	1	Support-Battery
21	104-5417-03	1	Bracket-Conditioner, Air
22	98-9305	1	Water / Fuel Filter ASM
24	353-781	2	Fitting-Elbow
33	110-4113	1	Hose-Fuel
34	92-2379	3	Clamp-Hose
35	2412-81	2	Clamp-R
38	94-1445	1	Strap-Battery
39	3256-22	4	Washer-Flat
41	323-12	1	Screw-HH
43	2412-93	1	Clamp-R
44	3234-4	1	Screw-HHF
45	32128-33	1	Nut-HF
46	32105-13	1	Screw-HWH
47	32128-17	1	Nut-Lock, Flange



Water and Fuel Filter Assembly No. 98-9305

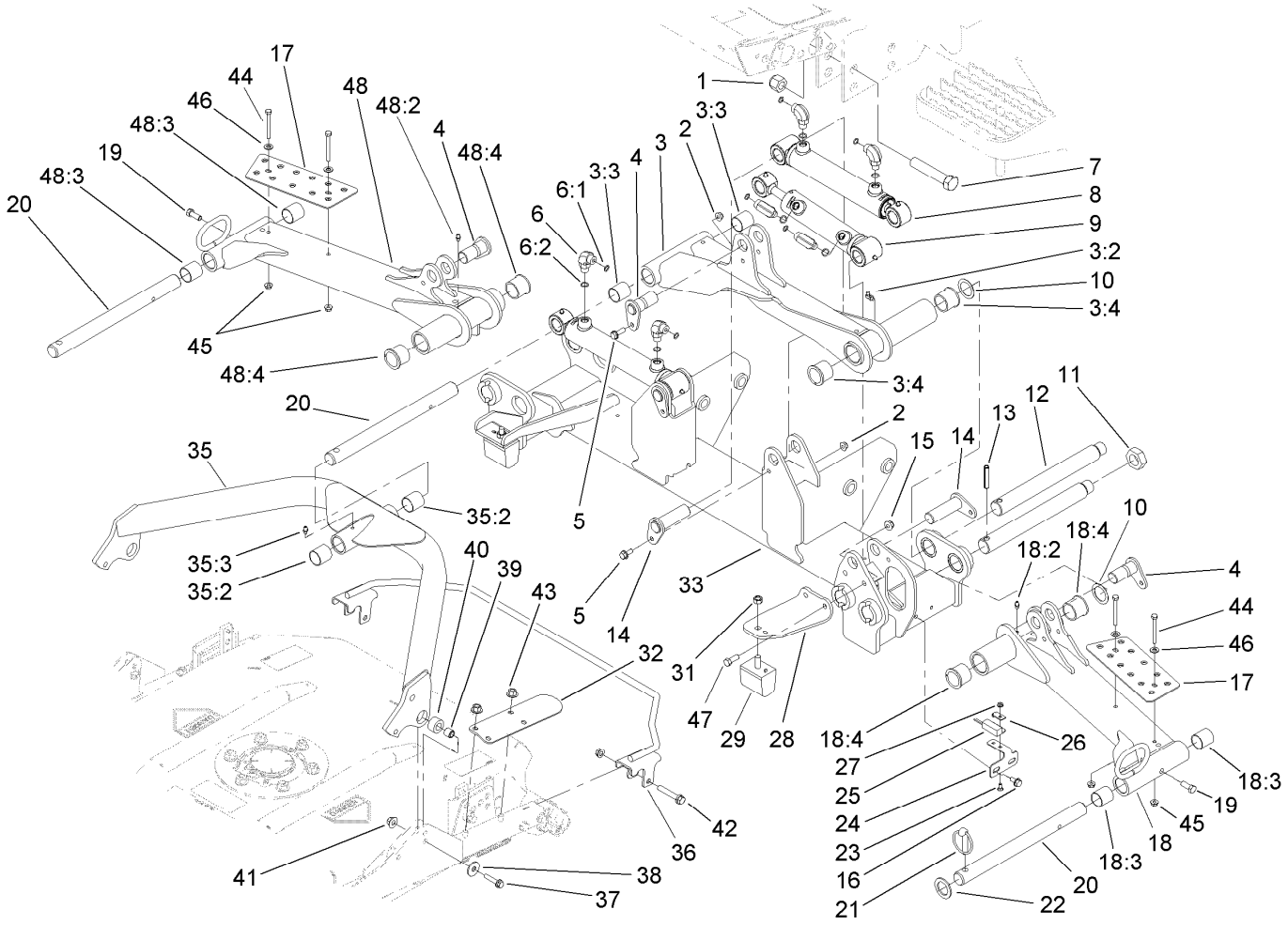
Ref.	*Part Number*	*Qty.*	*Description*
1	98-9772	1	Head-Filter
2	98-9764	1	Element
3	98-9774	1	O-Ring
4	98-9775	1	Base-Filter
5	98-9773	1	Plug-Base, Filter
6	237-42	1	O-Ring
7	237-78	1	O-Ring
8	98-9776	1	Plug-Head, Filter
9	98-9777	1	Drain Valve ASM
10	285-22	2	Plug-Pipe



Front Lift Arm Assembly

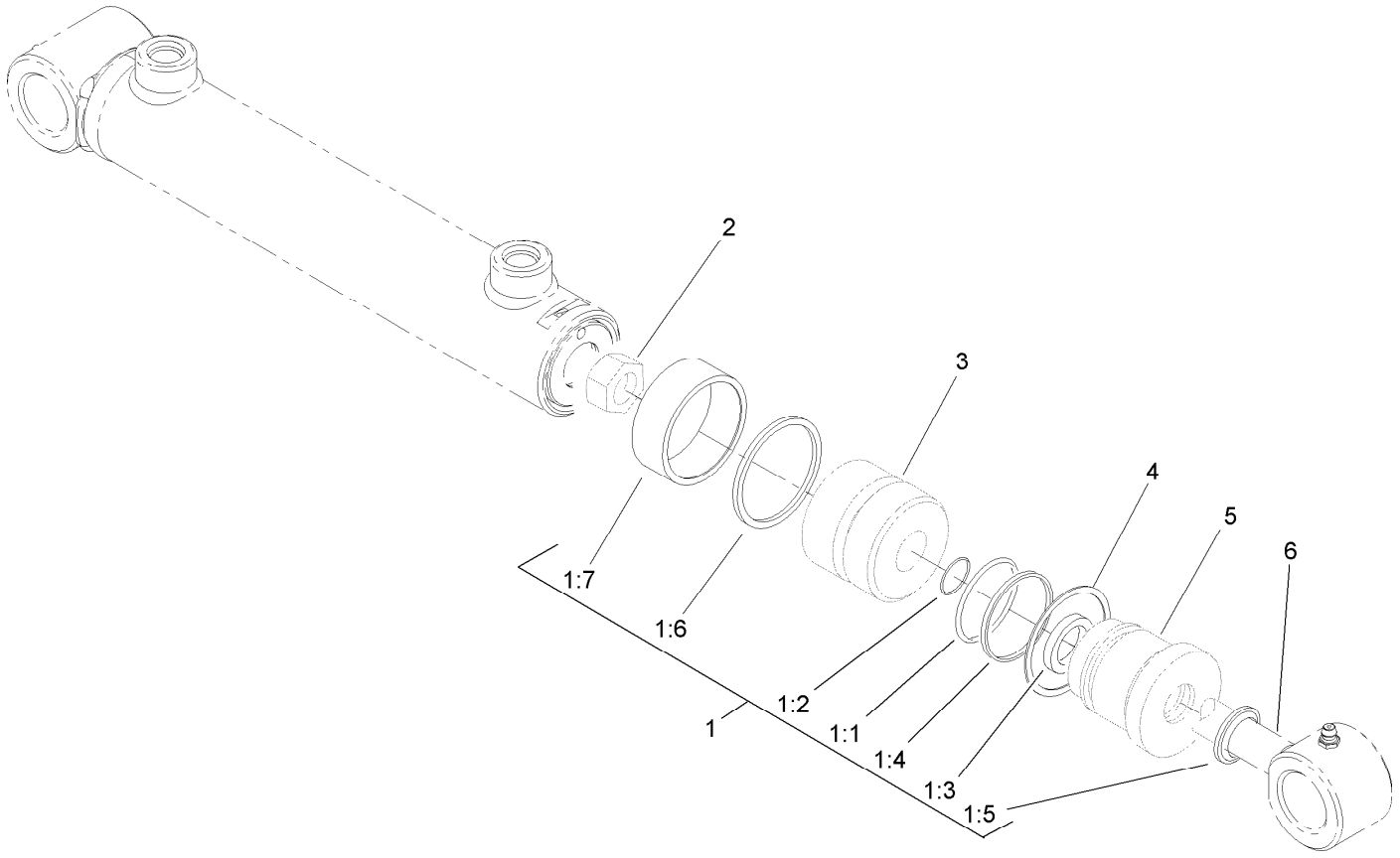
Ref.	Part Number	Qty.	Description
1	3296-51	4	Nut-Lock, NI
2	104-8300	6	Nut-Flange, NI
3	108-4032	1	No. 1 Liftarm ASM
3:2	302-60	1	Fitting-Grease
3:3	108-4000	2	Bushing
3:4	104-0015	2	Bushing-Flange
4	104-5525	3	Cylinder Pin ASM
5	3234-17	6	Screw-HHF
6	340-77	6	Fitting-HYD, 90 DEG
6:1	237-22	1	O-Ring
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	3	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	2	Nut-Flange, NI
16	32144-14	4	Screw-HWHTF
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	323-6	3	Screw-HH

Ref.	Part Number	Qty.	Description
20	108-4023	3	Shaft-Carrier, Pivot
21	283-71	3	Pin-Lynch
22	3-6781	3	Washer-Thrust
23	104-1450	2	Bolt-CARR
24	104-5585	2	Bracket-Switch
25	106-9288	2	Sensor-Proximity, Ferrous
26	100-4872	2	Plate-Switch, Neutral
27	32149-7	2	Nut-Keps
28	104-5689-03	1	Bracket-Support, Bumper
29	87-3470	2	Bumper-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	104-5656	7	Carrier Frame ASM
35:2	108-4000	2	Bushing
35:3	302-5	1	Fitting-Grease
36	112-9900-03	6	Guard-Foot
37	3234-18	14	Screw-HHF
38	93-8806	14	Washer-Hardened
39	105-9822	14	Spacer
40	105-9823	14	Bushing-Carrier
41	104-8301	14	Nut-Flange, NI
42	100-2592	12	Screw-HHF
43	3290-357	12	Nut-HHF, Whiz
44	321-15	4	Screw-HH
45	32128-33	4	Nut-HF
46	3256-23	4	Washer-Flat
47	323-7	2	Screw-HH



Front Lift Arm Assembly (continued)

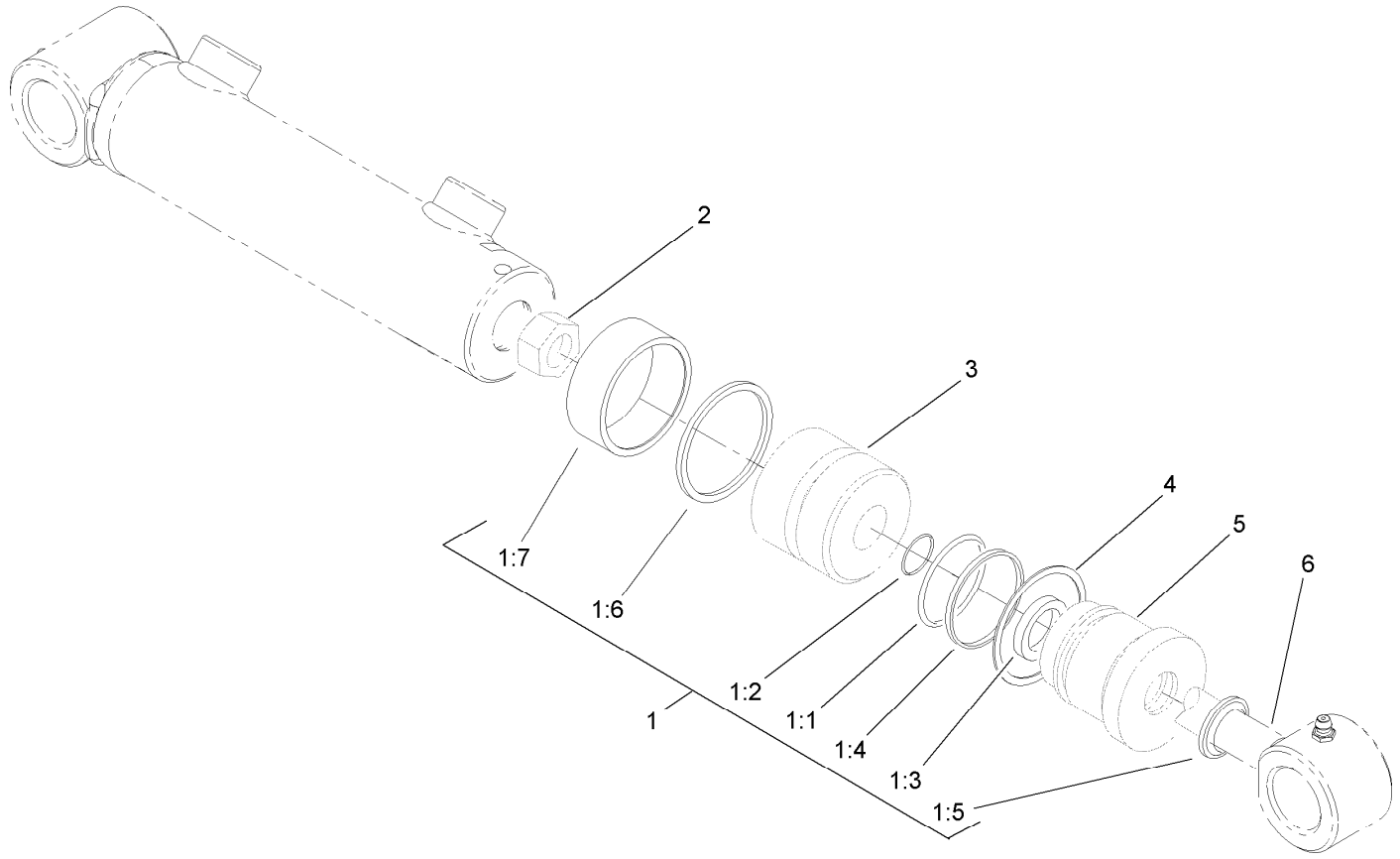
Ref.	Part Number	Qty.	Description
48	108-4034	1	No. 5 Liftarm ASM
48:2	302-5	1	Fitting-Grease
48:3	108-4000	2	Bushing
48:4	104-0015	2	Bushing-Flange



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 ●

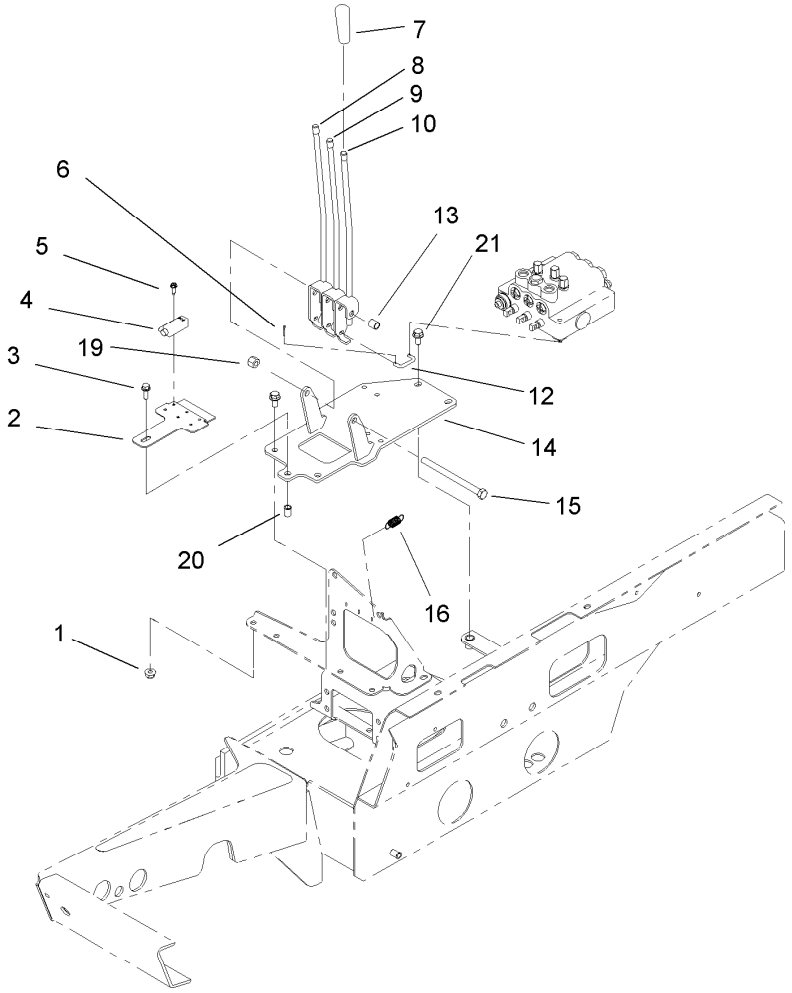
● Not serviced separately



Hydraulic Cylinder Assembly No. 107-1980

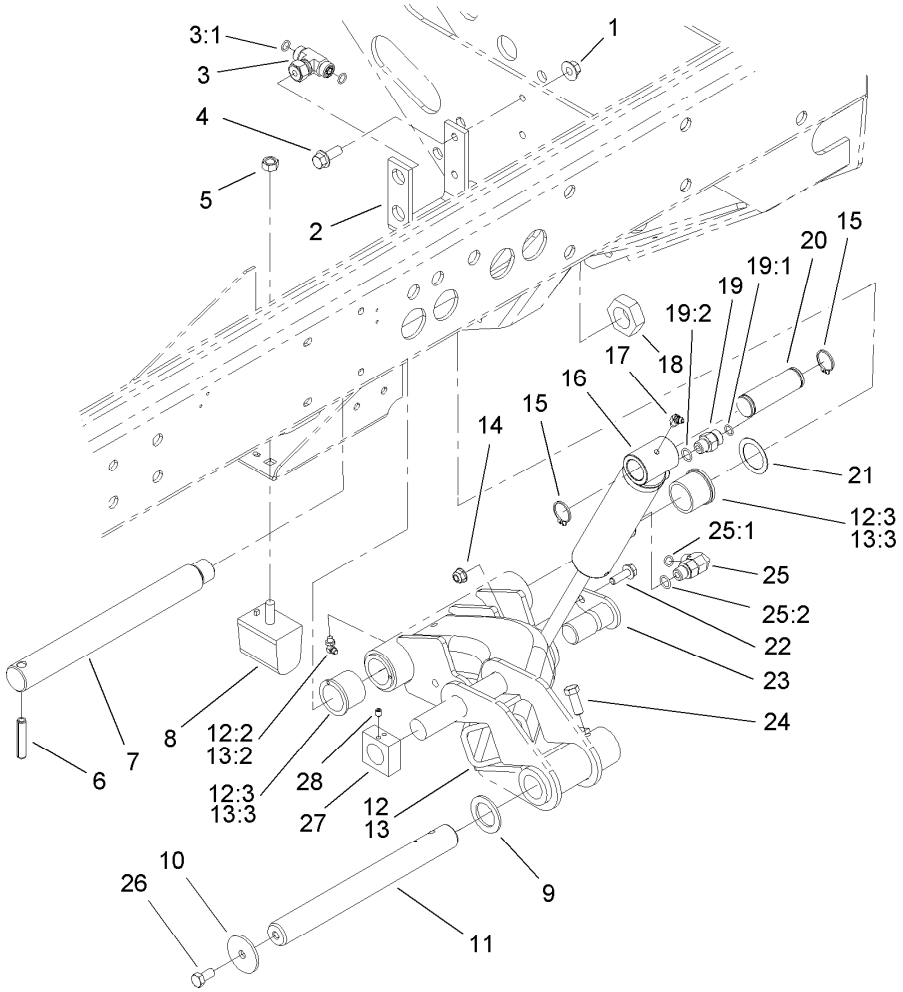
Ref.	*Part Number*	*Qty.*	*Description*
1	107-1977	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal W/O-Ring ●
1:7		1	Ring-Wear ●
2		1	Locknut ●
3		1	Piston ●
4		1	Ring-Retaining ●
5		1	Head ●
6		1	Rod ASM ●

● Not serviced separately



Lift Lever Assembly

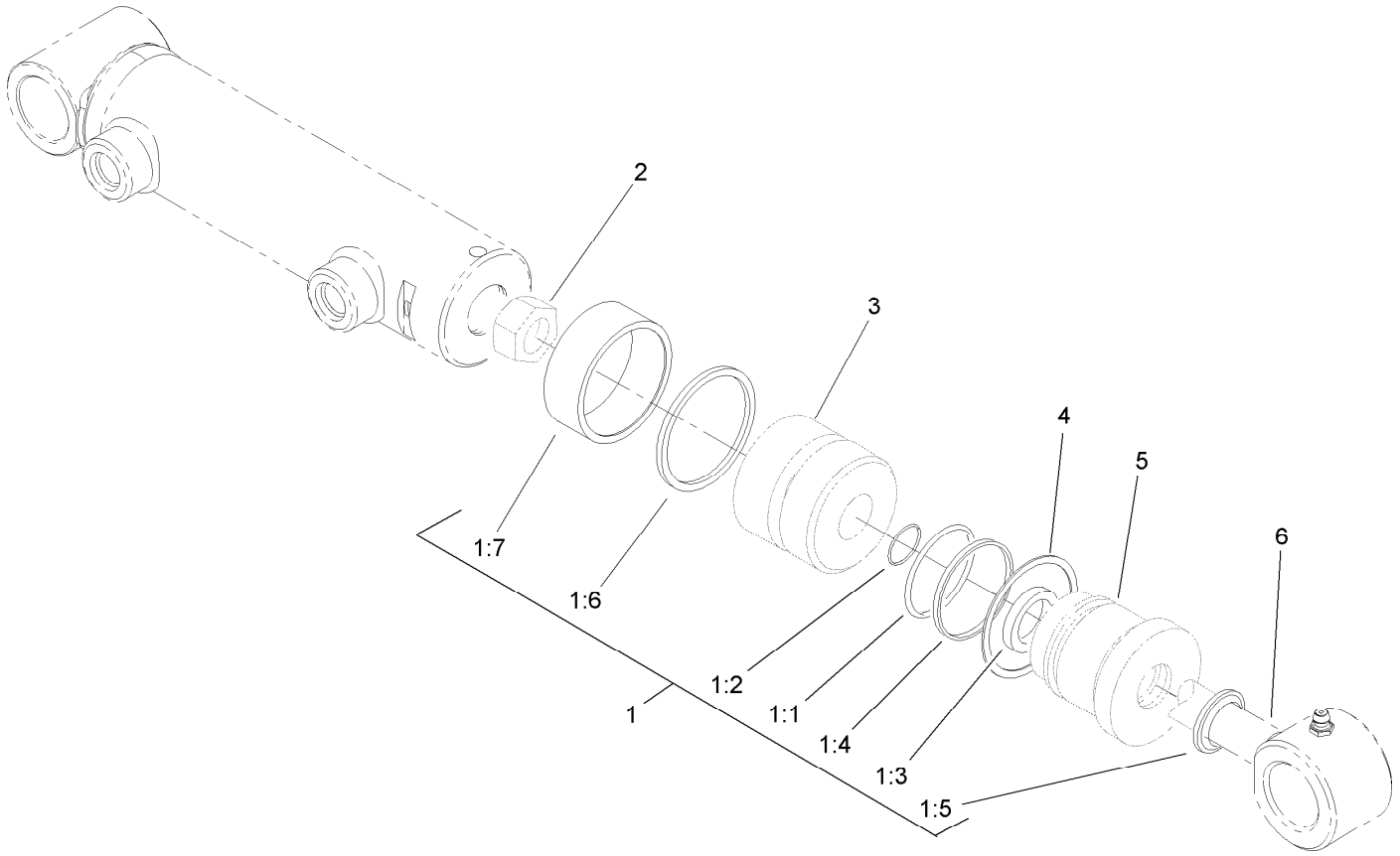
Ref.	*Part Number*	*Qty.*	*Description*
1	104-8300	2	Nut-Flange, NI
2	104-5530	1	Plate-Switch
3	3234-4	1	Screw-HHF
4	105-0023	3	Switch-Proximity
5	32144-19	6	Screw-SHWH
6	3272-1	6	Pin-Cotter
7	233-39	3	Knob-Control
8	110-0481	1	Right Lever ASM
9	110-0480	1	Center Lever ASM
10	110-0482	1	Left Lever ASM
12	69-9140	3	Link-Lever, Valve
13	65-9980	1	Spacer
14	104-5606-03	1	Valve Support ASM
15	323-39	1	Screw-HH
16	112-5256	3	Spring-Extension
19	3296-39	1	Nut-Lock, NI
20	32148-6	1	Insert-Nut
21	3234-14	4	Screw-HHF



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	1	O-Ring
4	3234-17	2	Screw-HHF
5	33025-00	2	Nut-Lock, NI
6	32121-110	2	Pin-Roll, Slotted
7	95-7158	2	Pin-Pivot
8	87-3470	2	Bumper-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
14	104-8300	2	Nut-Flange, NI

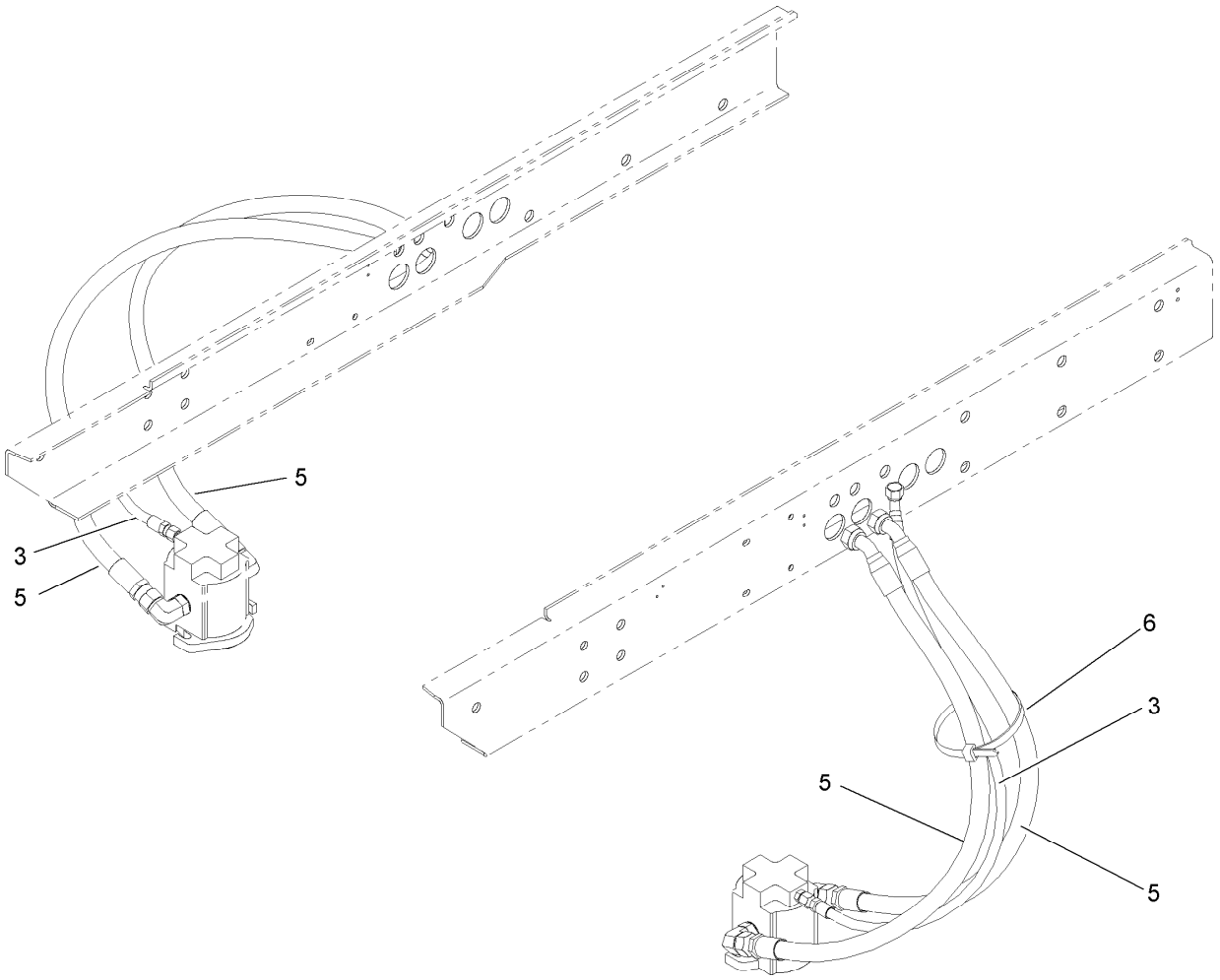
Ref.	Part Number	Qty.	Description
15	32151-36	4	Ring-Retaining
16	107-1978	2	Cylinder-Lift
17	302-11	2	Fitting-Lube, 45 DEG
18	3296-49	2	Nut-Lock, NI
19	340-2	2	Fitting-HYD, Straight
19:1	237-22	1	O-Ring
19:2	237-42	1	O-Ring
20	92-7548	2	Pin-Cylinder
21	76-2980	2	Washer-Thrust
22	3234-17	2	Screw-HHF
23	104-5525	2	Cylinder Pin ASM
24	323-6	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	3245-7	4	Screw-Set



Hydraulic Cylinder Assembly No. 107-1978

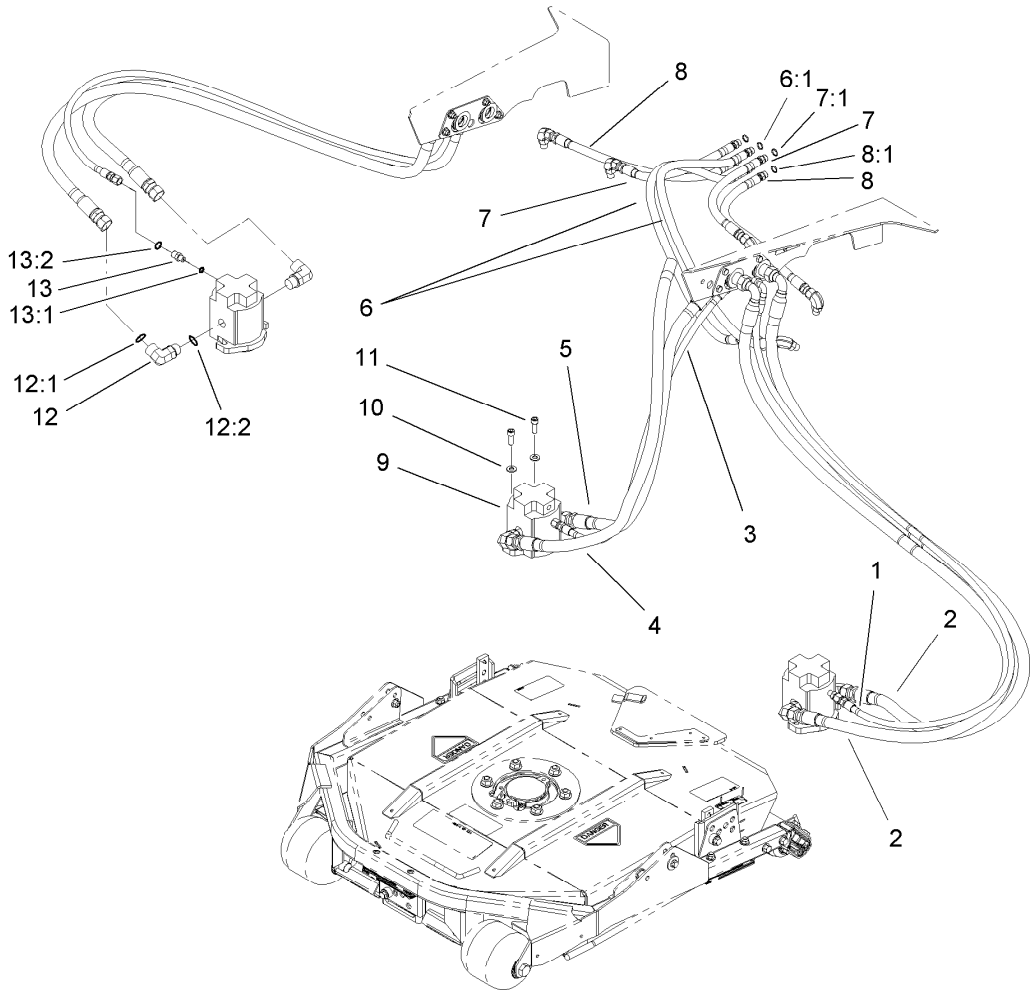
Ref.	*Part Number*	*Qty.*	*Description*
1	107-1977	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal W/O-Ring ●
1:7		1	Ring-Wear ●
2		1	Locknut ●
3		1	Piston ●
4		1	Ring-Retaining ●
5		1	Head ●
6		1	Rod ASM ●

● Not serviced separately



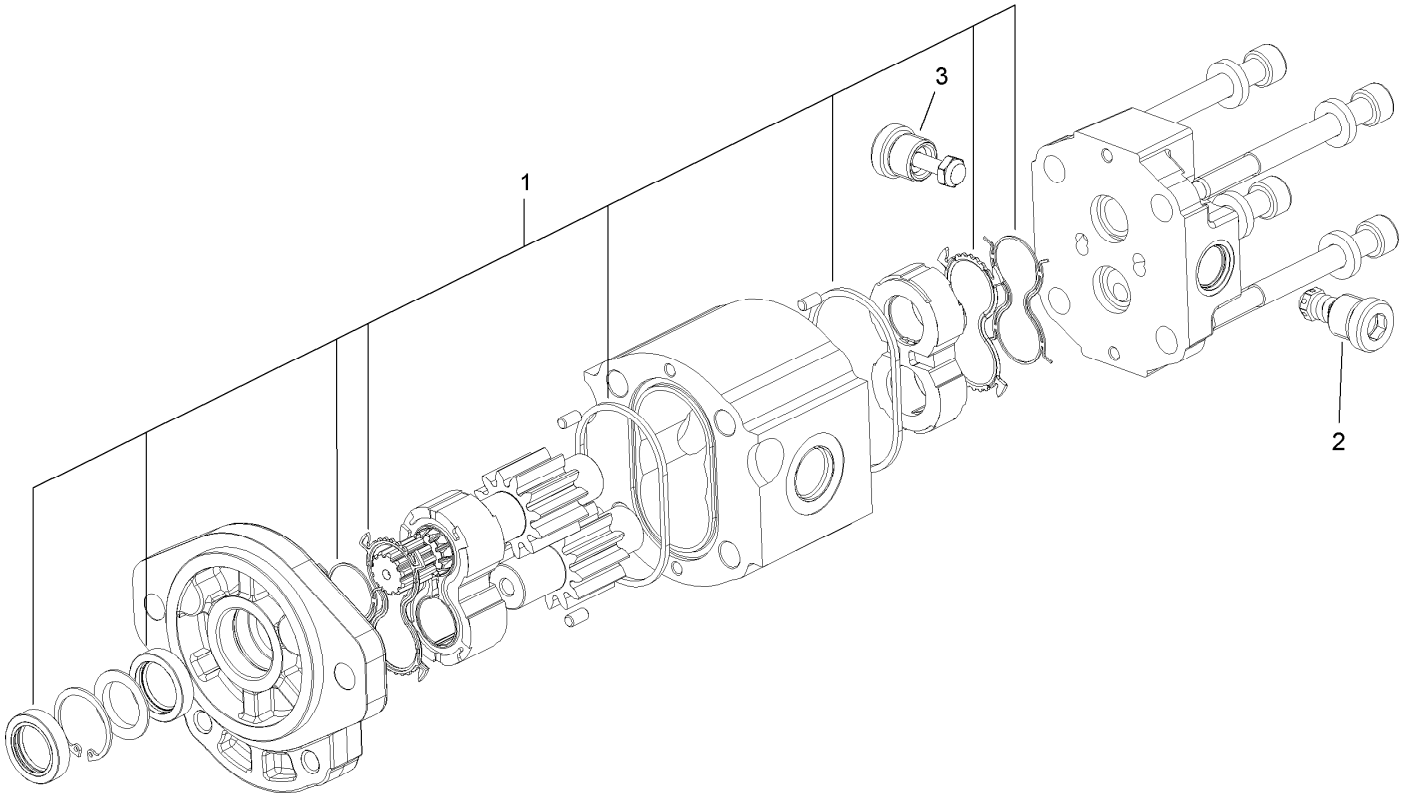
No. 2 and 3 Hose Installation Assembly

Ref.	*Part Number*	*Qty.*	*Description*
3	104-5502	2	Hose ASM
5	104-5505	4	Hose ASM
6	3290-379	2	Tie-Cable



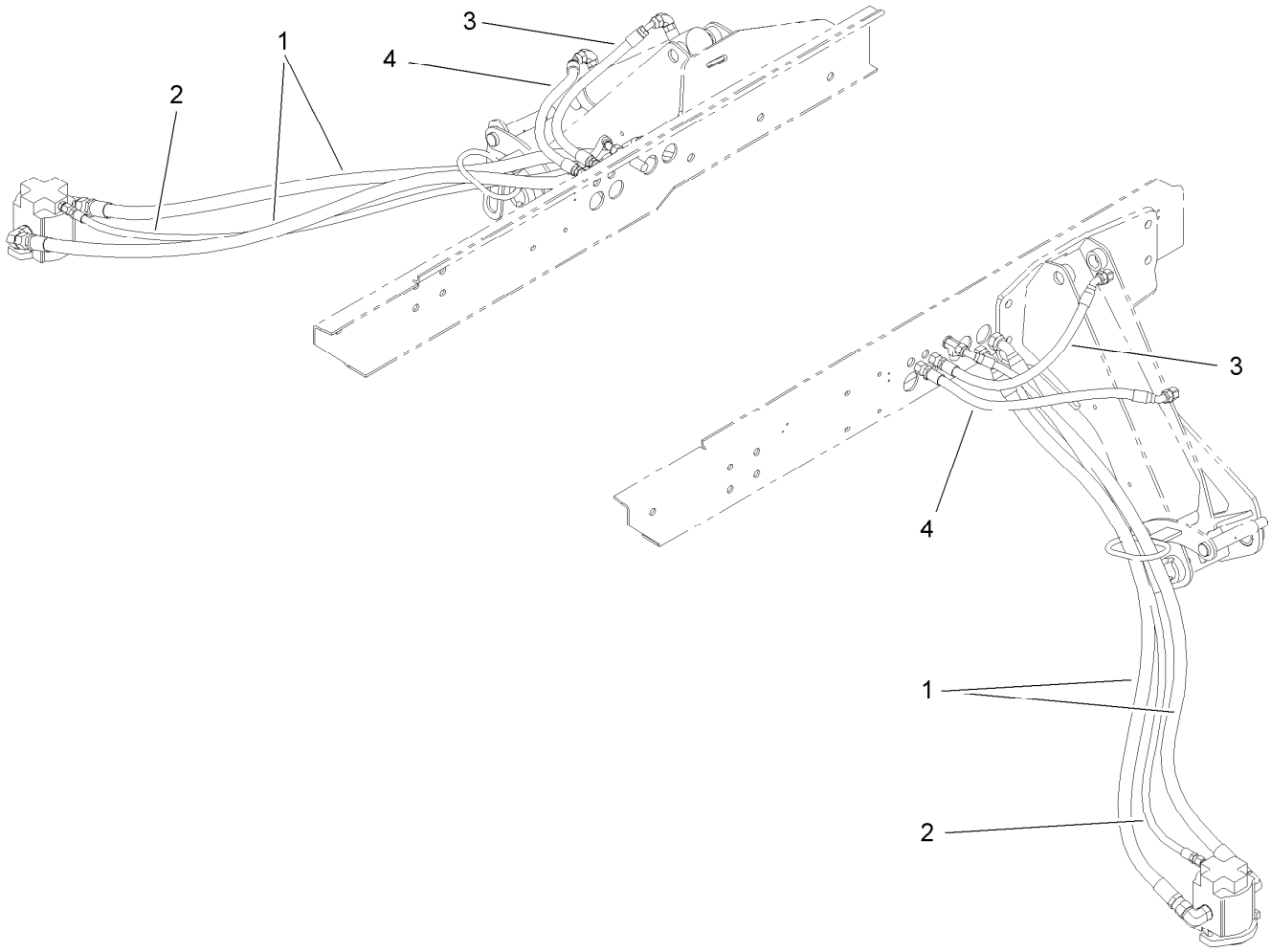
No. 1, 4 and 5 Hose Installation Assembly

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	2	Hose ASM
6:1	237-42	1	O-Ring
7	104-5512	2	Hose ASM
7:1	237-42	1	O-Ring
8	104-5513	2	Hose ASM
8:1	237-42	1	O-Ring
9	105-9872	7	HYD Motor ASM
10	3256-24	14	Washer-Flat
11	3274-7	14	Screw-HSH
12	340-17	14	Fitting-HYD, 90 DEG
12:1	237-65	1	O-Ring
12:2	237-80	1	O-Ring
13	340-92	7	Fitting-HYD, Straight
13:1	237-78	1	O-Ring
13:2	237-21	1	O-Ring



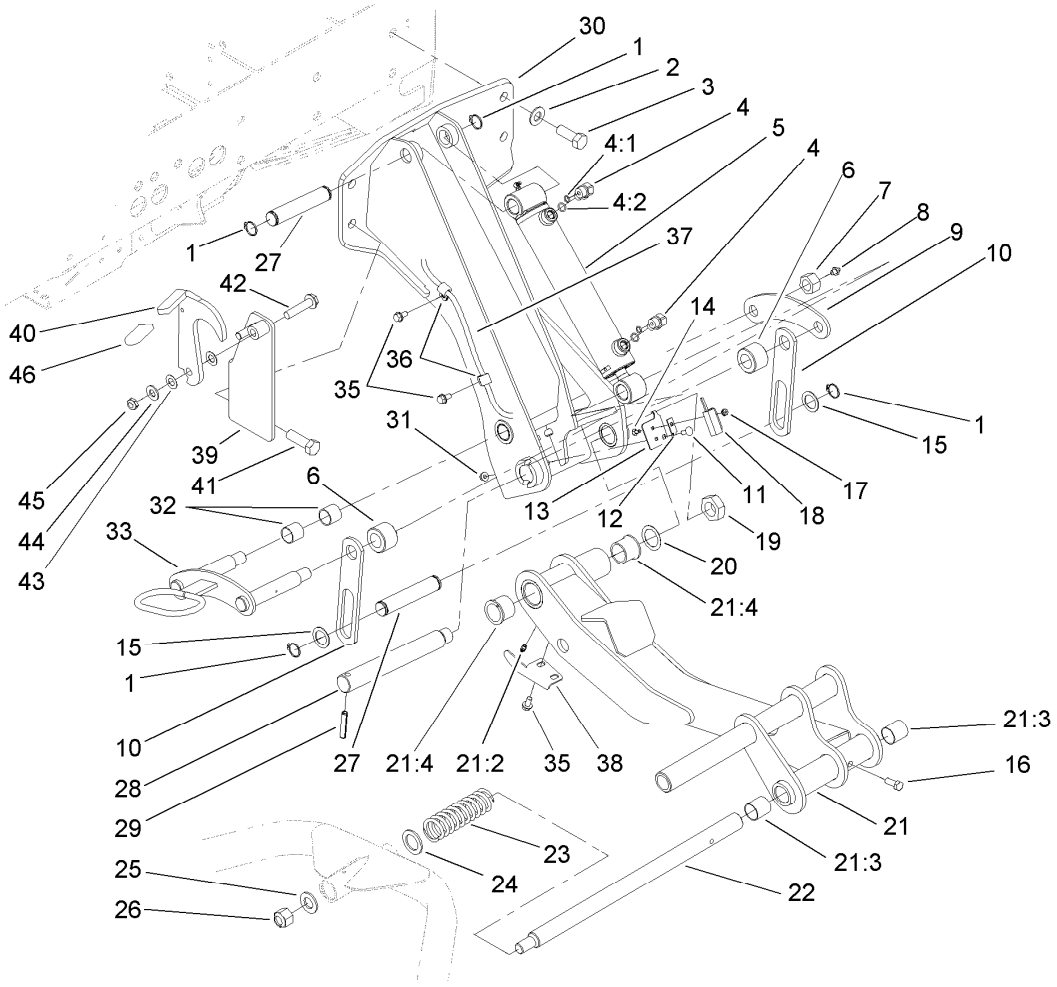
Hydraulic Motor Assembly No. 105-9872

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



No. 6 and 7 Hose Installation Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	104-5498	4	Hose ASM
2	104-5499	2	Hose ASM
3	105-3918	2	Hose ASM
4	105-3919	2	Hose ASM

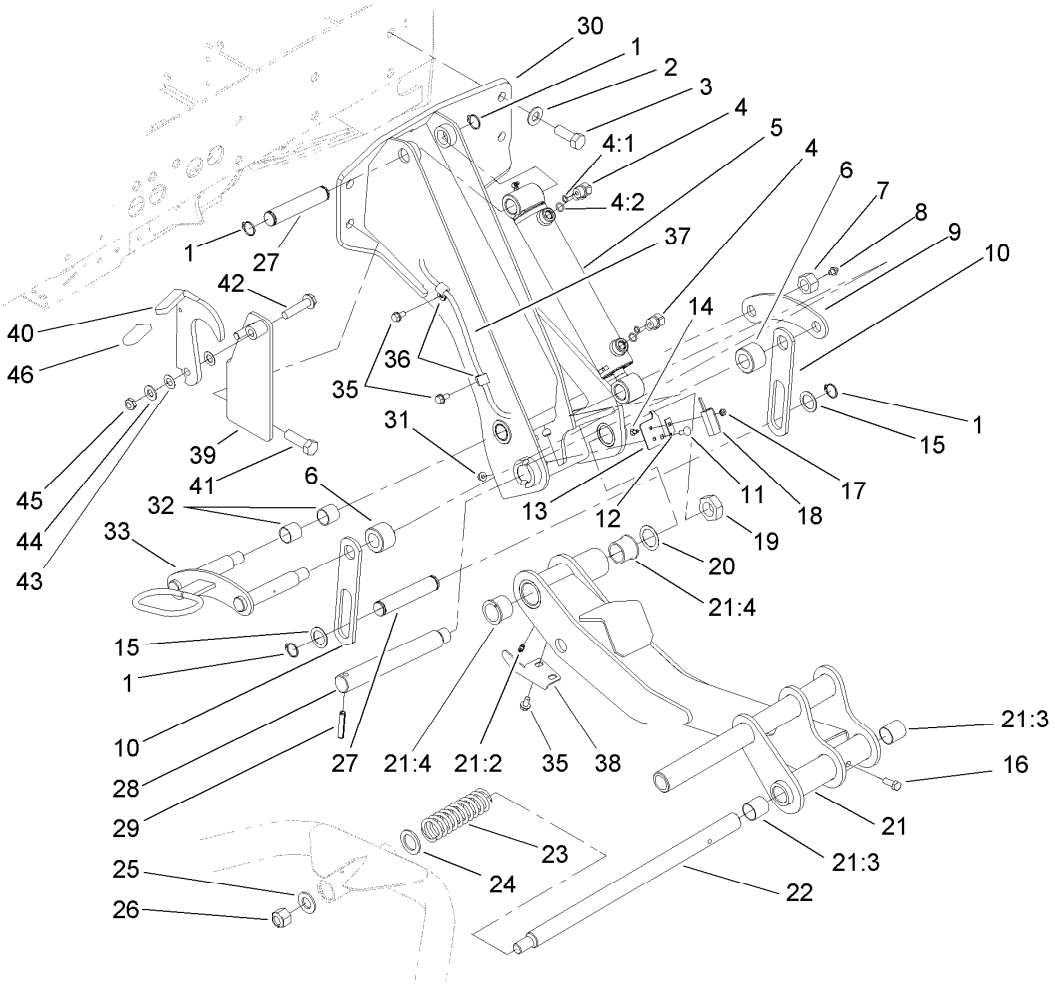


No. 6 and 7 Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	32151-36	8	Ring-Retaining
2	99-7667	12	Washer-Flat
3	327-5	8	Screw-HH
4	340-77	4	Fitting-HYD, 90 DEG
4:1	237-22	1	O-Ring
4:2	237-42	1	O-Ring
5	107-1981	2	Lift Cyclinder ASM
6	93-2700	4	Roller-Plastic
7	33029-00	4	Nut-Lock, NI
8	302-2	4	Fitting-Grease
9	98-8821	2	Link-Rear
10	93-2704	4	Link-Left
11	3229-28	2	Screw-CARR
12	100-4872	2	Plate-Switch, Neutral
13	105-3858	2	Bracket-Switch
14	104-1450	2	Bolt-CARR
15	10-8110	4	Washer-Thrust
16	323-6	2	Screw-HH
17	32149-7	2	Nut-Keps
18	106-9288	2	Sensor-Proximity, Ferrous
19	3296-49	2	Nut-Lock, NI
20	76-2980	2	Washer-Thrust
21	108-4036	1	No. 7 Liftarm ASM
21	108-4035	1	No. 6 Liftarm ASM
21:2	302-5	1	Fitting-Grease

Ref.	Part Number	Qty.	Description
21:3	108-4000	2	Bushing
21:4	104-0015	2	Bushing-Flange
22	108-4022	2	Shaft-Carrier, Pivot
23	105-3999	2	Spring-Compression
24	3-6781	2	Washer-Thrust
25	3256-28	2	Washer-Flat
26	3296-50	2	Nut-Lock, NI
27	93-2699	4	Pin
28	98-8826	2	Pin-Pivot
29	32121-110	2	Pin-Roll, Slotted
30	104-5657-03	1	No. 6 Support Arm ASM
30	104-5658-03	1	No. 7 Support Arm ASM
31	32128-33	2	Nut-HF
32	67-1750	4	Bushing
33	104-5669	2	Link ASM
35	32144-14	8	Screw-HWHTF
36	2412-93	4	Clamp-R
37	108-4011	1	Harness-Wire
38	105-9828	2	Actuator-Switch
39	108-4045-03	1	Latch-Arm, LH
39	108-4046-03	1	Latch-Arm, RH
40	104-3557-03	1	Latch-LH
40	104-3556-03	1	Latch-RH
41	327-6	4	Screw-HH
42	3234-46	2	Screw-HHF

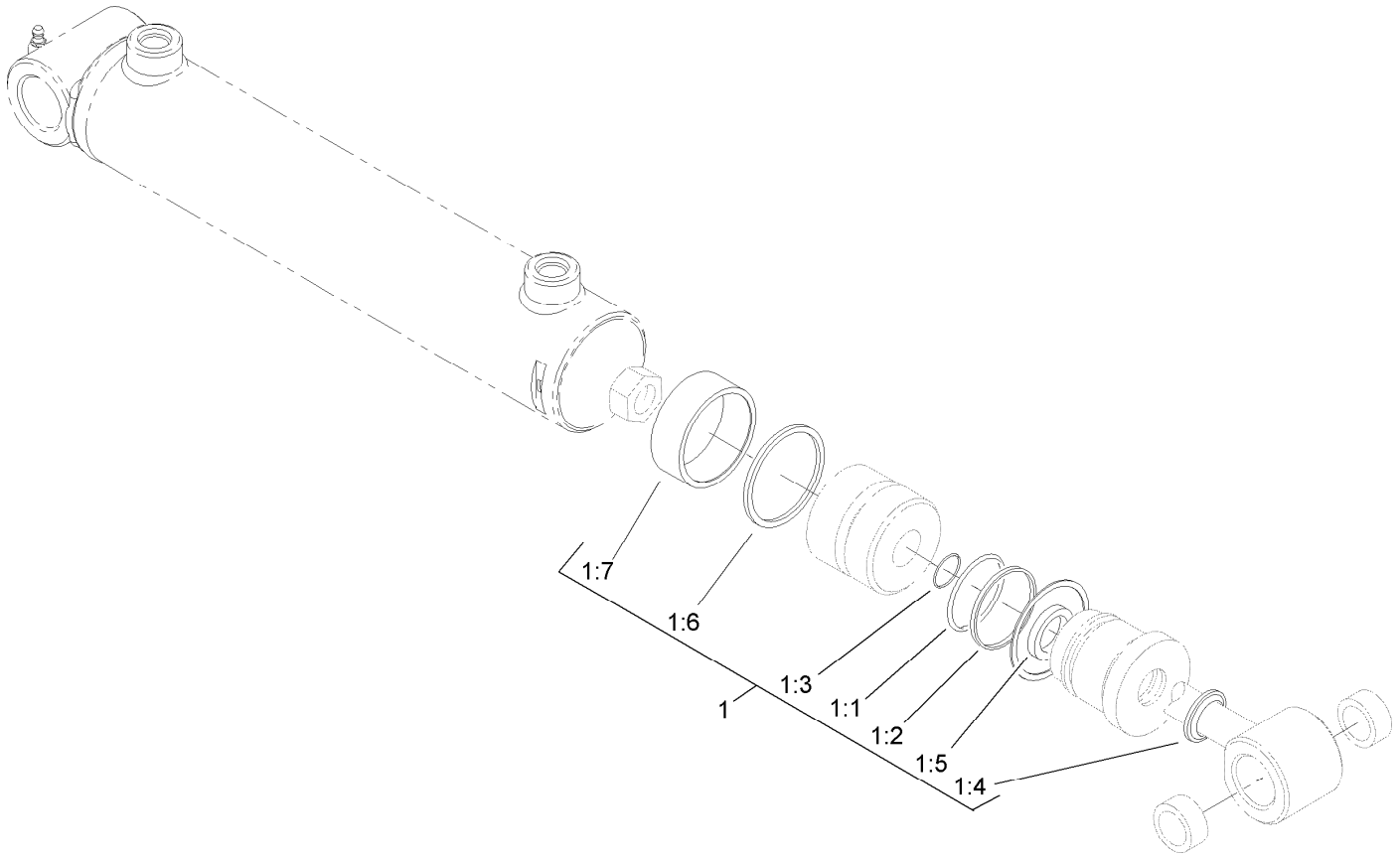
● Not illustrated



No. 6 and 7 Lift Arm Assembly (continued)

Ref.	Part Number	Qty.	Description
43	104-3577	4	Washer
44	3256-26	2	Washer-Flat
45	3296-45	2	Nut-Lock, NI
46	48-7081	2	Grip-Plastic
99	3290-378	2	Tie-Cable ●

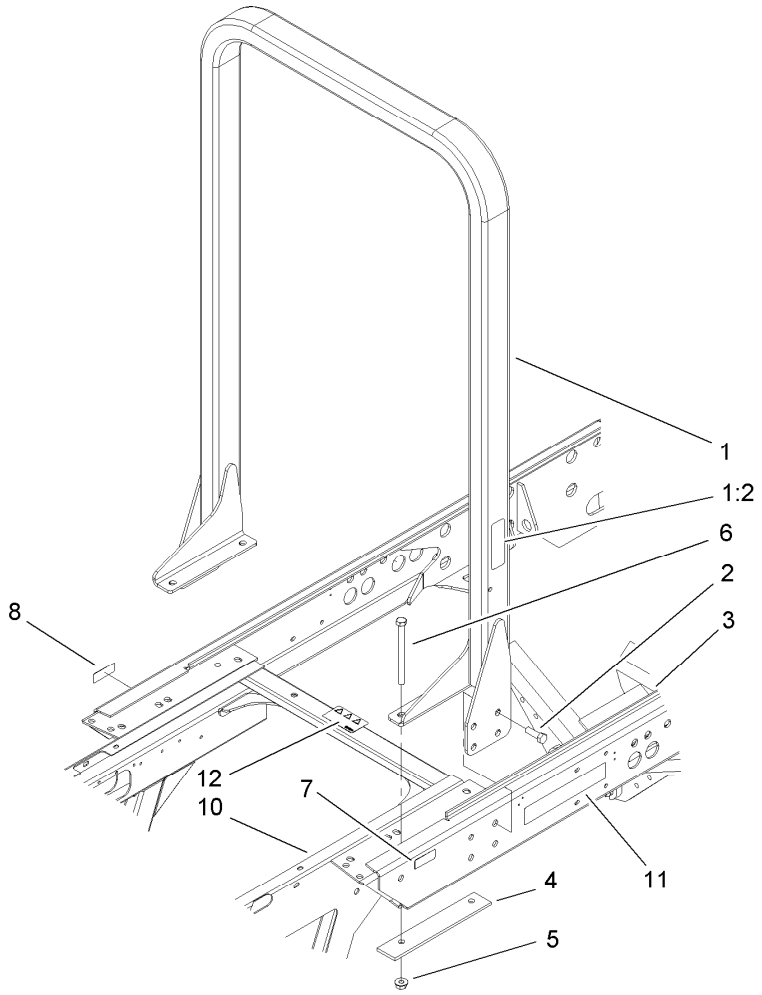
● Not illustrated



Hydraulic Cylinder Assembly No. 107-1981

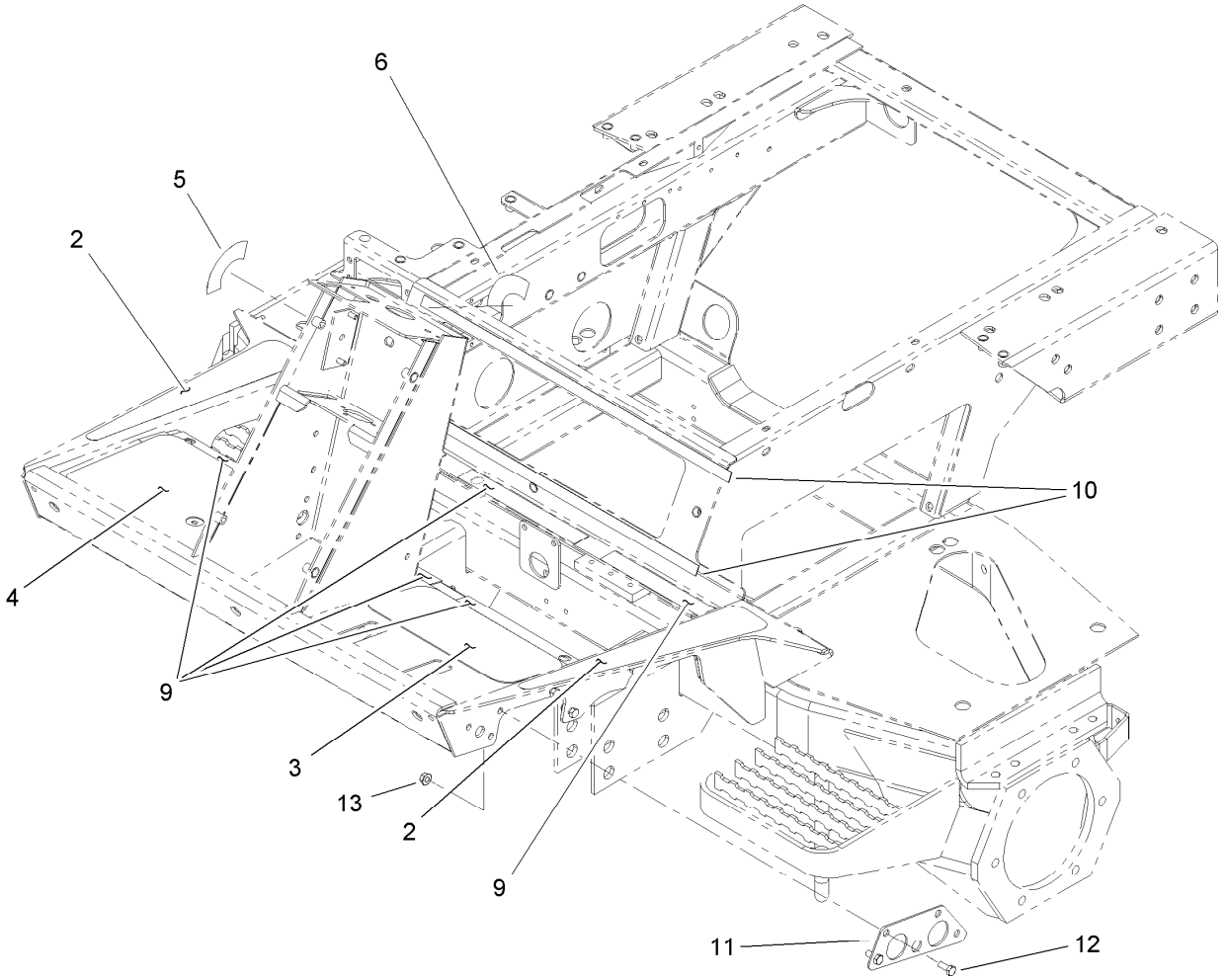
Ref.	*Part Number*	*Qty.*	*Description*
1	107-2564	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Seal ●
1:4		1	Back-Up ●
1:5		1	Wiper ●
1:6		1	Seal-W/Out Ring ●
1:7		1	Ring-Wear ●

● Not serviced separately



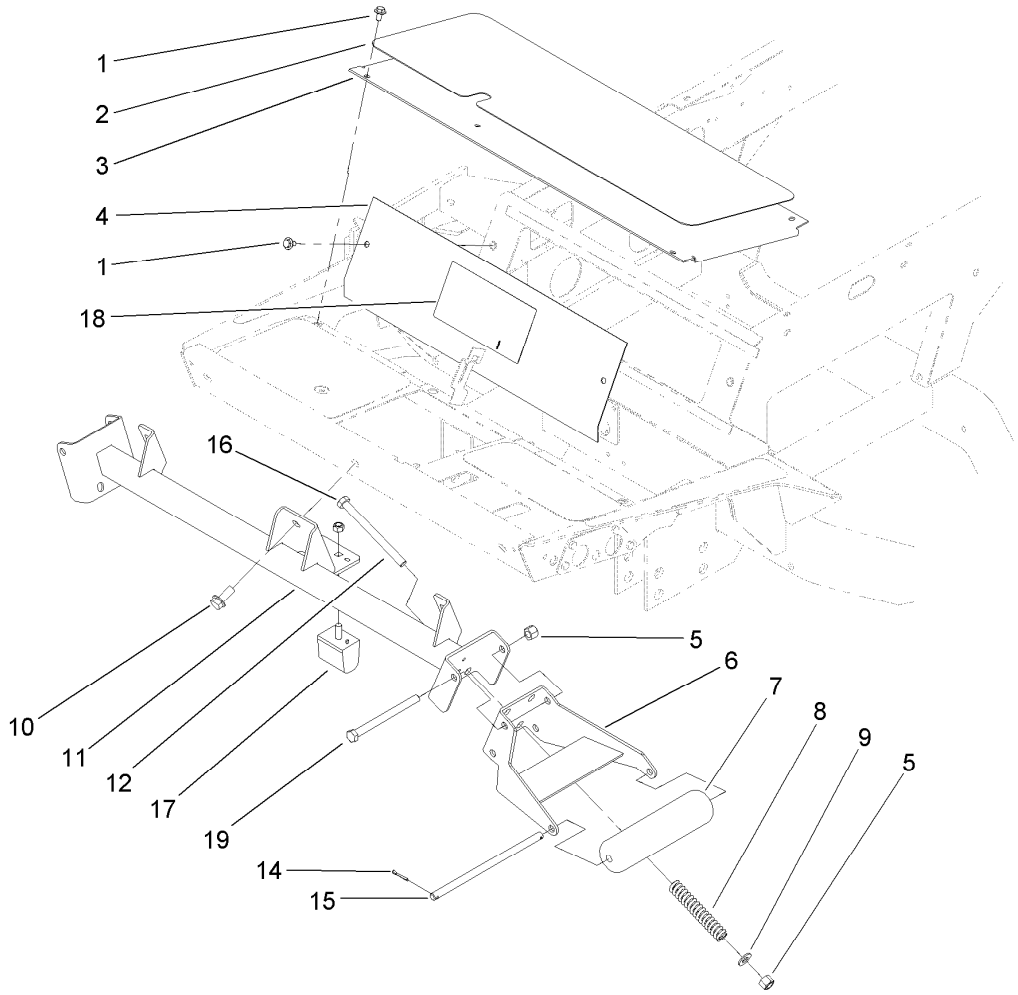
Roll-Over Protection System and Frame Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	108-4018	1	ROPS ASM
1:2	107-1999	1	Decal-ROPS
2	3234-38	10	Screw-HHF
3	104-5410-03	1	Frame-Rear
4	104-5584-03	2	Plate-Reinforcement, ROPS
5	32128-49	4	Nut-HHF
6	325-20	4	Screw-HH
7	93-6680	1	Decal-Diesel
8	93-6686	1	Decal-Oil, HYD
10	108-6051	1	Front Frame ASM
11	72-3560	2	Decal
12	106-6754	1	Decal-Danger



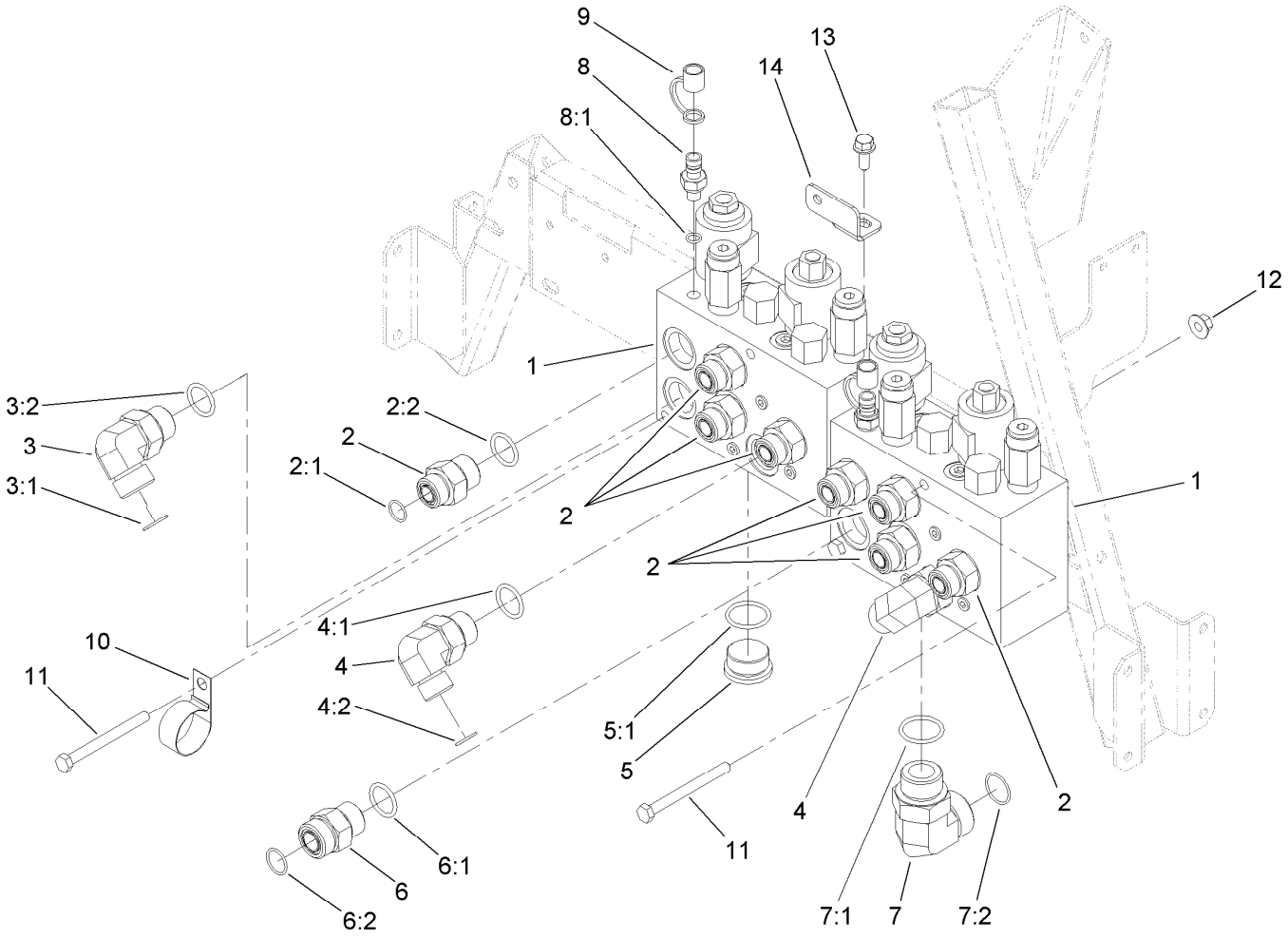
Front Frame Assembly No. 108-6051

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
5	93-6699	1	Decal-Fast / Slow
6	105-7506	1	Decal-Switch, Key
9	105-9859	6	Seal-Foam
10	105-9860	2	Seal-Foam
11	106-7794-01	2	Plate-Mount, HYD Fitting
12	322-3	7	Screw-HH
13	32128-20	7	Nut-HF



Roller Support and Access Panel Assembly

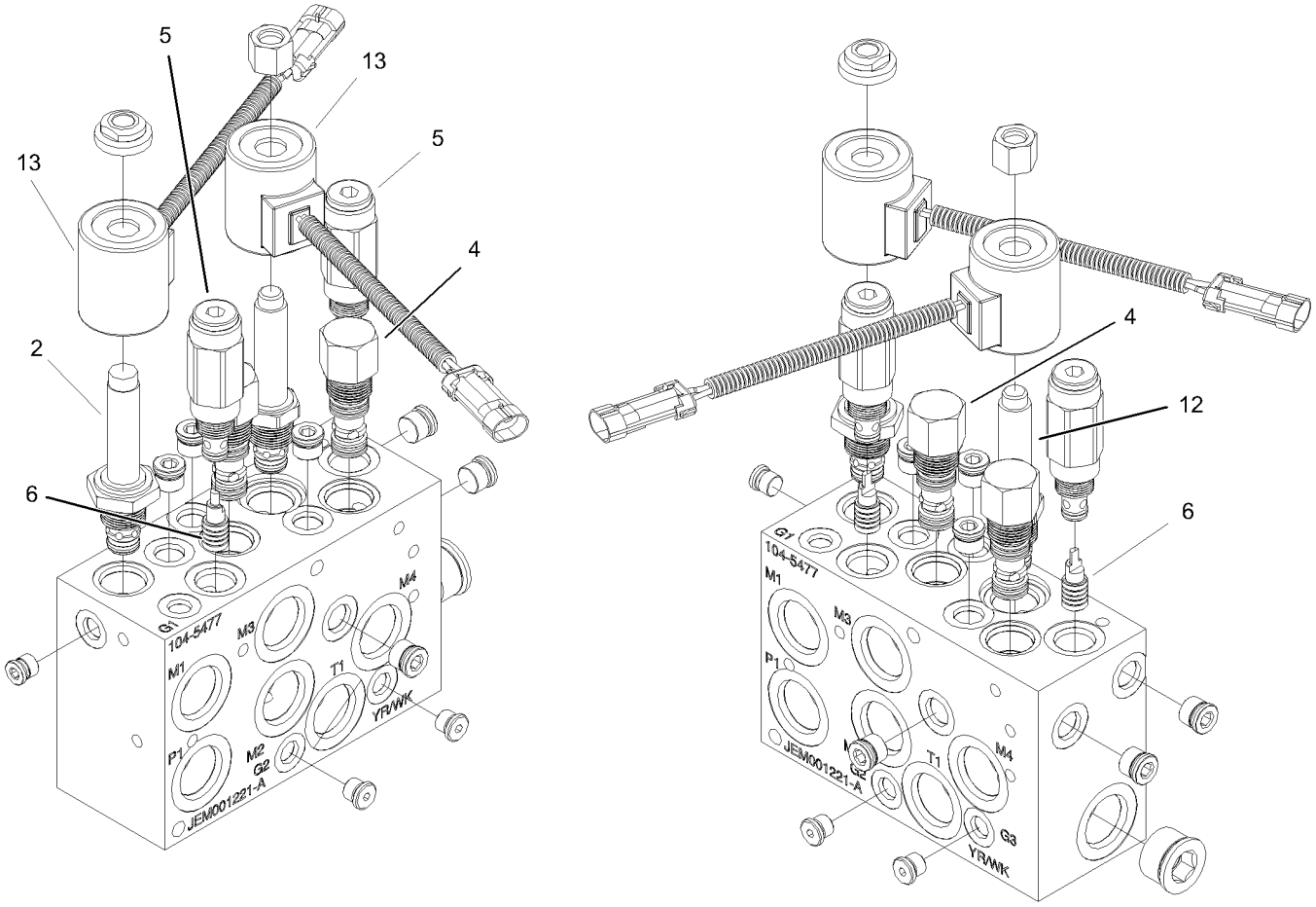
Ref.	*Part Number*	*Qty.*	*Description*
1	3234-7	7	Screw-HHF
2	75-0630	1	Tread-Foot, Center
3	75-1410-01	1	Plate-Access, Floor
4	105-9243-01	1	Plate-Access
5	3296-23	4	Nut-Lock, NI
6	105-3996-01	2	Support-Roller
7	105-9816	2	Roller-Plastic
8	105-3970	2	Spring-Compression
9	3256-26	2	Washer-Flat
10	3234-38	3	Screw-HHF
11	104-5539-01	1	Roller Support ASM
12	325-22	2	Screw-HH
14	3272-11	4	Pin-Cotter
15	104-5545	2	Shaft-Roller
16	33025-00	1	Nut-Lock, NI
17	87-3470	1	Bumper-Axle, Rear
18	105-3889	1	Decal-Danger
18	107-1983	1	Decal-Warning
19	325-20	2	Screw-HH



Cutting Manifold Assembly

Ref.	Part Number	Qty.	Description
1	104-5477	2	Manifold ASM
2	340-8	8	Adapter
2:1	237-65	1	O-Ring
2:2	237-81	1	O-Ring
3	340-142	1	Fitting-HYD, 90 DEG
3:1	237-58	1	O-Ring
3:2	237-81	1	O-Ring
4	340-139	2	Fitting-HYD, 90 DEG
4:1	237-81	1	O-Ring
4:2	237-65	1	O-Ring
5	105-3921	1	Fitting-Plug
5:1	237-146	1	O-Ring
6	340-9	1	Fitting-HYD, Straight

Ref.	Part Number	Qty.	Description
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	354-77	2	Fitting-Quick
8:1	237-78	1	O-Ring
9	354-79	2	Cap-Dust
10	2412-150	1	Clip-J
11	322-22	4	Screw-HH
12	32128-44	5	Nut
13	3234-5	1	Screw-HHF
14	104-5487	1	Bracket-L

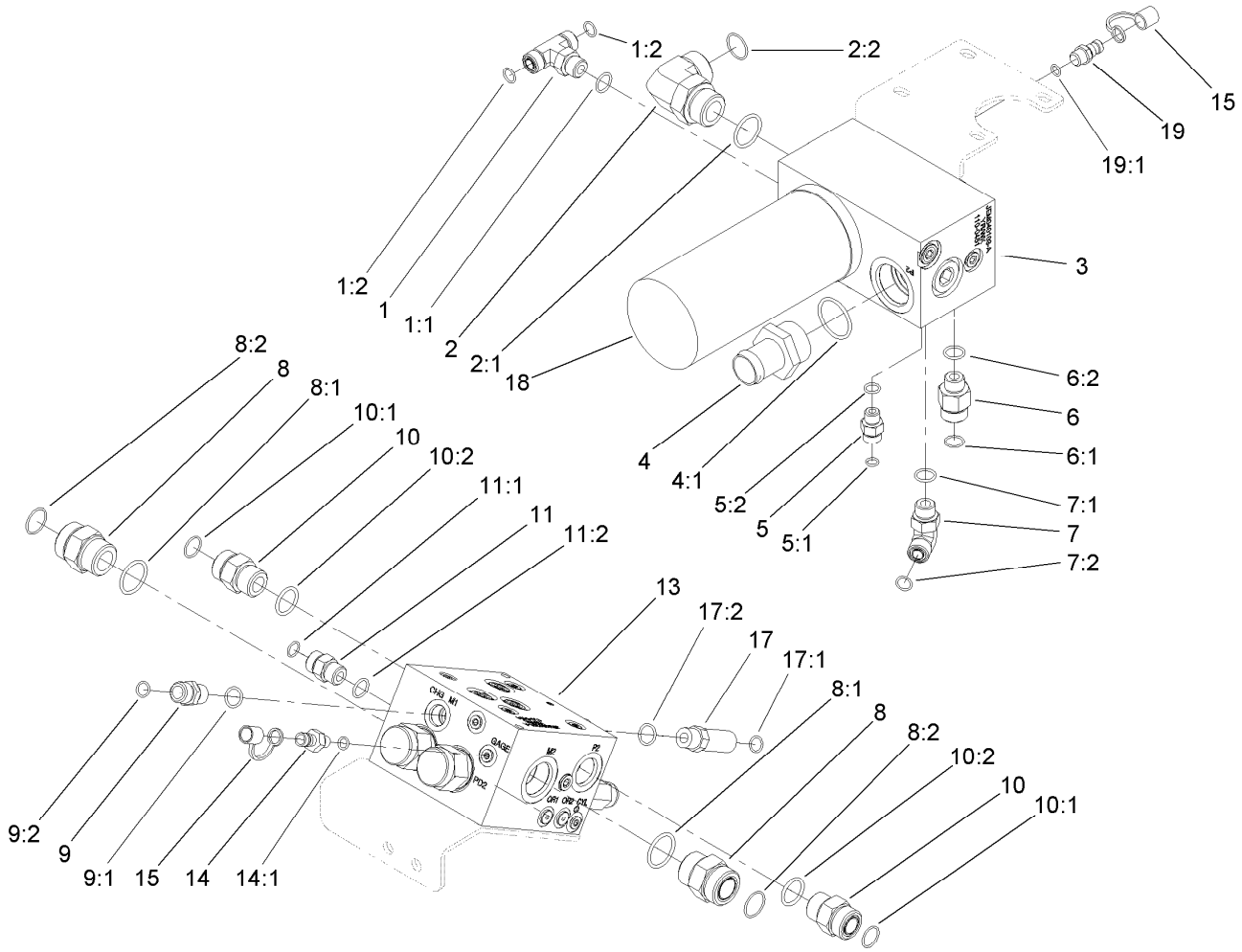


Manifold Assembly No. 104-5477

Ref.	*Part Number*	*Qty.*	*Description*
2	105-9150	1	Relief-Proportional
2:1	105-9151	1	Seal Kit ●
4	105-9153	2	Element-Logic, Vented ■■
4:1	105-9154	1	Seal Kit ●
5	112-5259	2	Valve-Relief ■■■■
5:1	105-9156	1	Seal Kit ●
6	105-9157	2	Piston-Pilot
12	105-9158	1	Valve-Solenoid, N.O.
12:1	105-9159	1	Seal Kit ●
13	105-9152	2	Coil ASM ■■

● Not illustrated

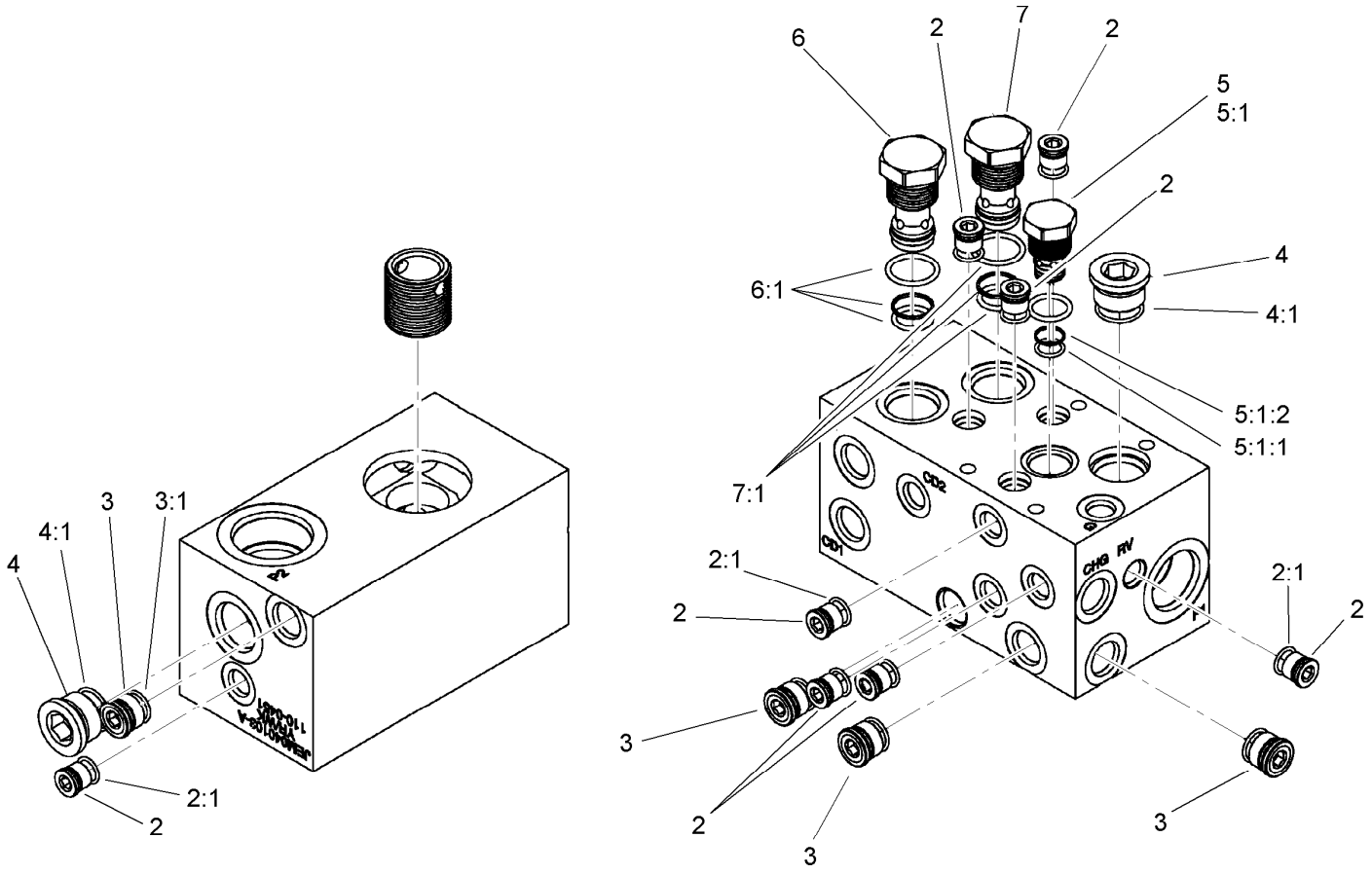
■ Not serviced separately



4 Wheel Drive Manifold and Filter Assembly

Ref.	Part Number	Qty.	Description
1	340-157	1	Fitting-HYD, Tee
1:1	237-79	1	O-Ring
1:2	237-30	2	O-Ring
2	340-129	1	Fitting-HYD, 90 DEG
2:1	237-146	1	O-Ring
2:2	340-65	1	O-Ring
3	110-0451	1	Manifold-Filter
4	104-5480	1	Fitting-Hose, Straight
4:1	237-123	1	O-Ring
5	340-2	1	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-155	1	Fitting-HYD, Straight
6:1	237-79	1	O-Ring
6:2	237-151	1	O-Ring
7	340-98	1	Fitting-HYD, 90 DEG
7:1	237-79	1	O-Ring
7:2	237-30	1	O-Ring
8	104-3797	2	Fitting-HYD, Straight
8:1	237-146	1	O-Ring
8:2	340-65	1	O-Ring

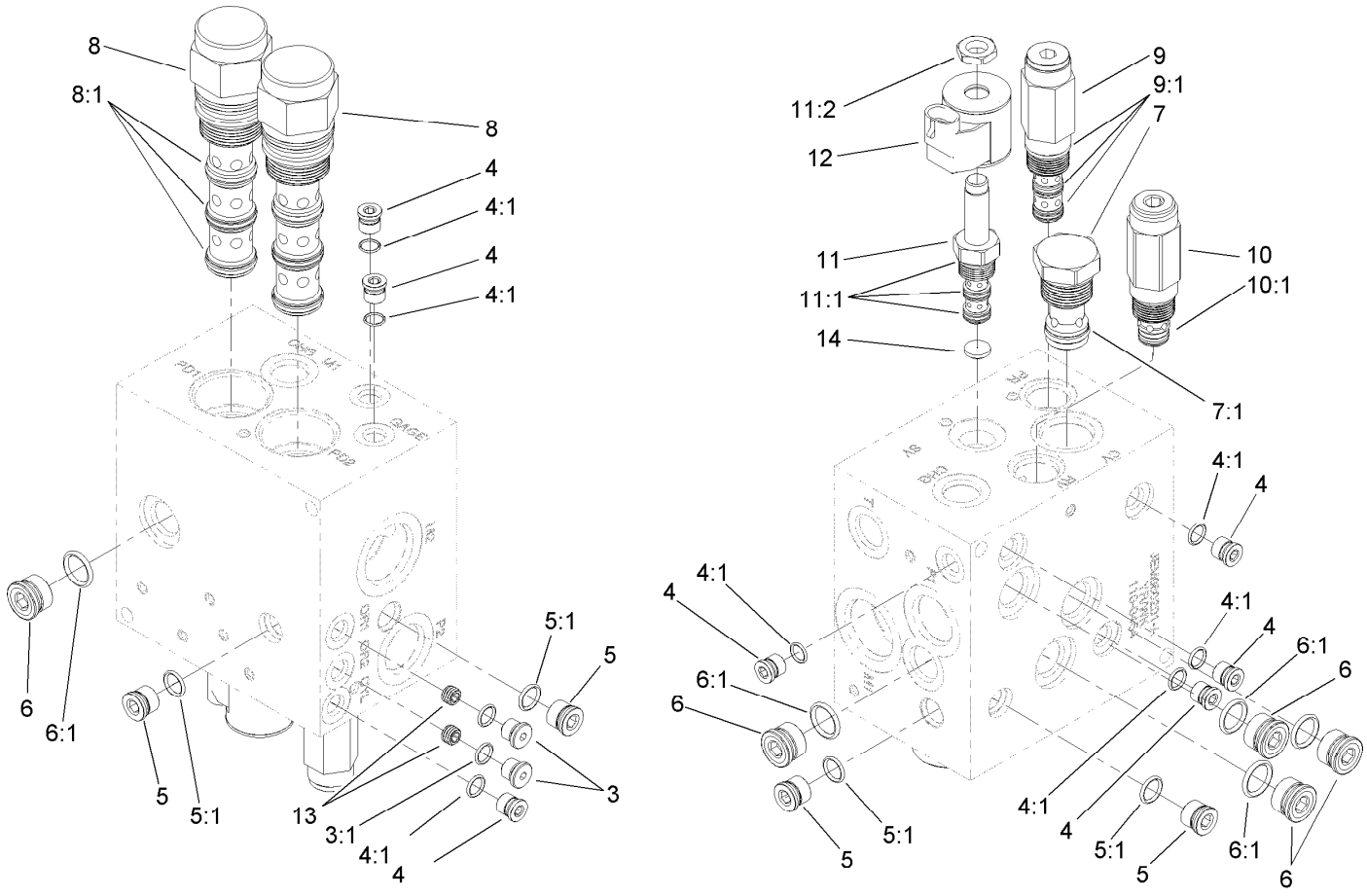
Ref.	Part Number	Qty.	Description
9	100-4890	1	Fitting-Check
9:1	237-79	1	O-Ring
9:2	237-30	1	O-Ring
10	340-9	2	Fitting-HYD, Straight
10:1	237-58	1	O-Ring
10:2	237-81	1	O-Ring
11	340-4	1	Fitting-HYD, Straight
11:1	237-30	1	O-Ring
11:2	237-79	1	O-Ring
13	110-0454	1	4-Wheel Drive Manifold ASM
14	354-77	1	Fitting-Quick
14:1	237-78	1	O-Ring
15	354-79	2	Cap-Dust
17	94-2628	1	Adapter-HYD
17:1	237-79	1	O-Ring
17:2	237-30	1	O-Ring
18	94-2621	1	Element-Filter
19	59-7410	1	Tip-Nipple, Diagnostic
19:1	237-42	1	O-Ring



Filter Manifold Assembly No. 110-0451

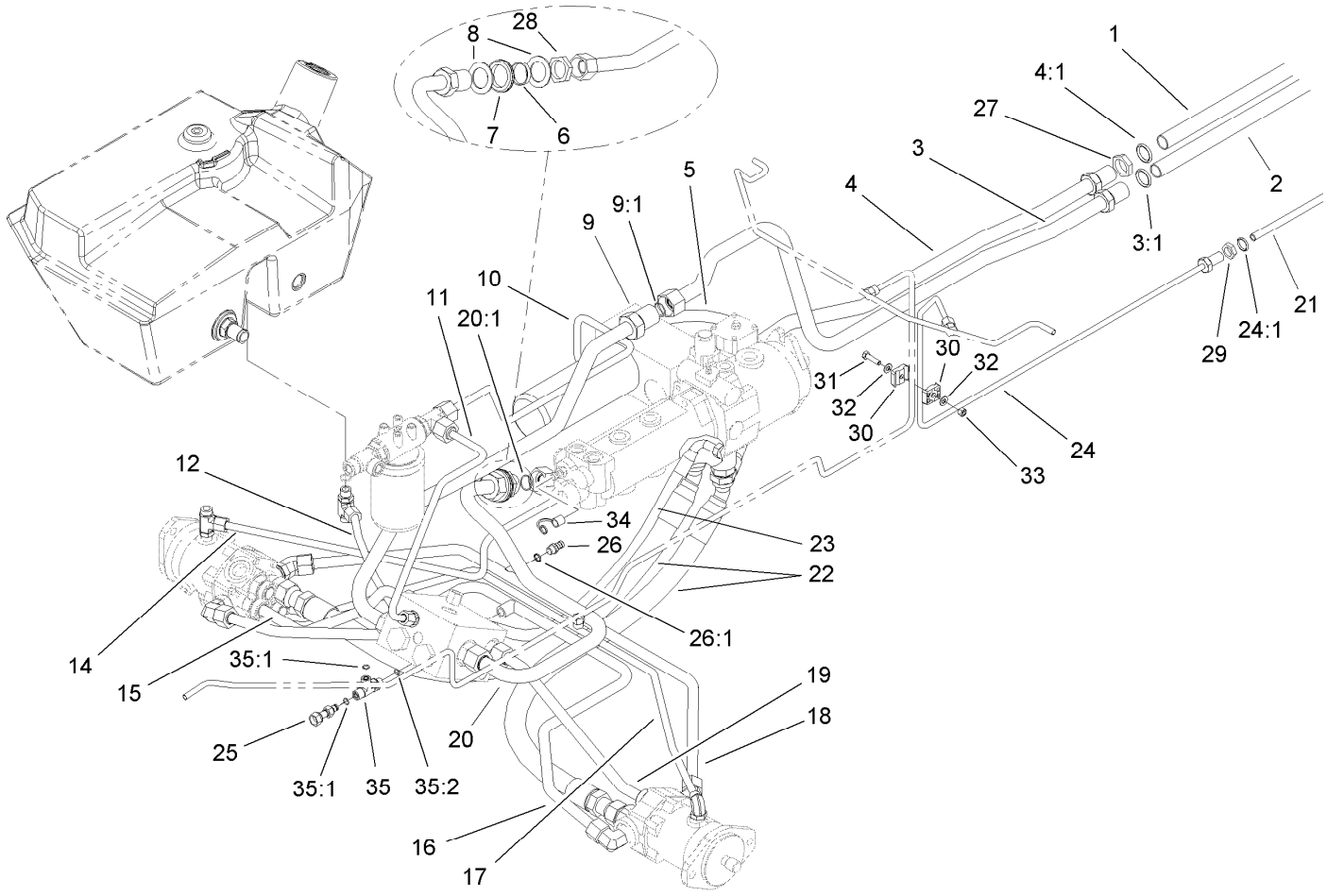
Ref.	*Part Number*	*Qty.*	*Description*
2	106-1026	8	Plug-HYD
2:1	237-42	1	O-Ring
3	106-1027	4	Plug-HYD
3:1	237-79	1	O-Ring
4	106-1029	2	Plug-Leak, Zero
4:1	237-81	1	O-Ring
5	110-0469	1	Valve-Check, 180 Psi
5:1	105-9159	1	Seal Kit
5:1:1		1	O-Ring ●
5:1:2		1	Ring-Back Up ●
6	110-0468	1	Valve-Check, 5 Psi
6:1	110-0470	1	Seal Kit
7	110-0467	1	Valve-Check, 40 Psi
7:1	110-0470	1	Seal Kit

● Not serviced separately



4 Wheel Drive Manifold Assembly No. 110-0454

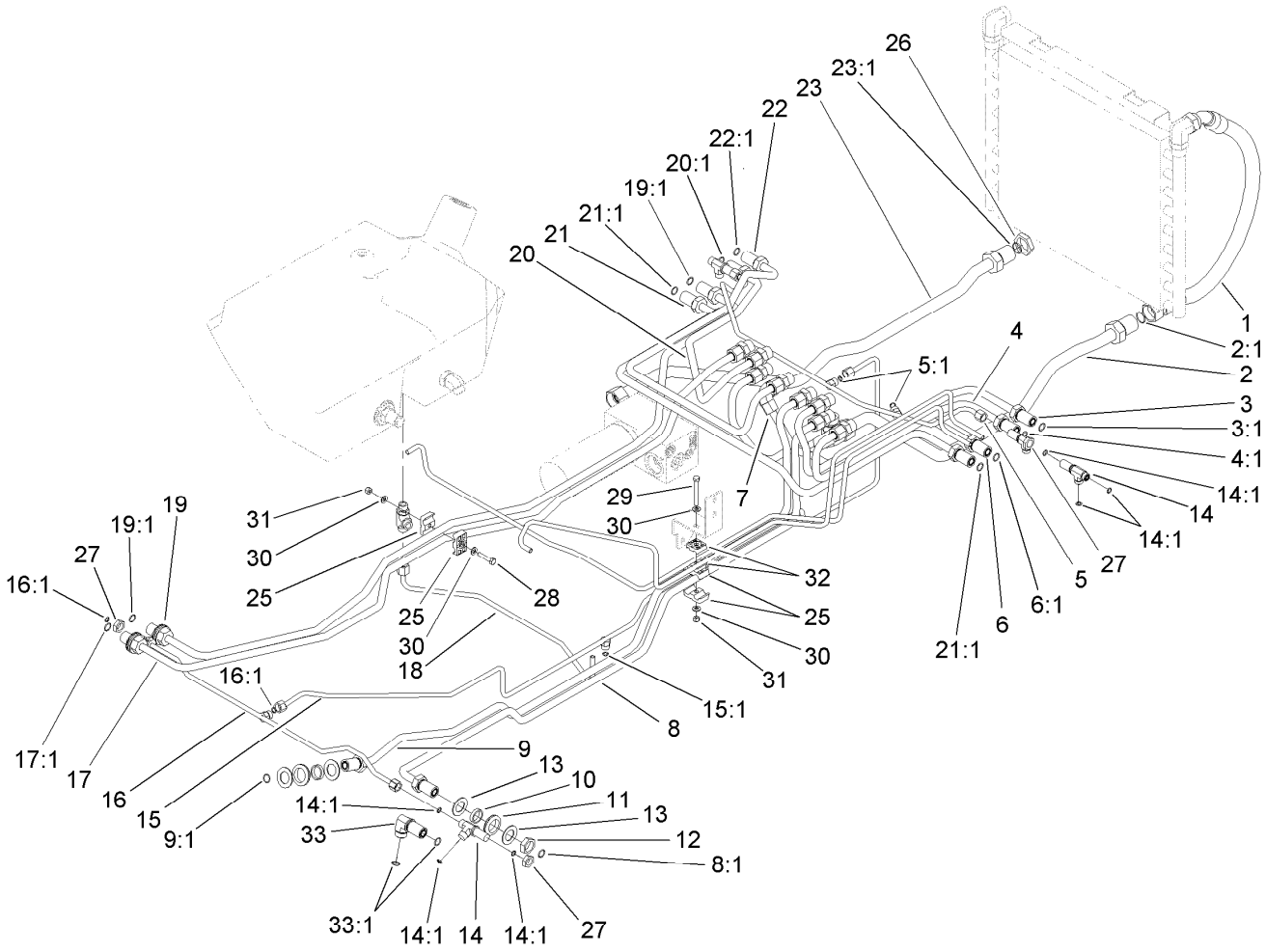
Ref.	*Part Number*	*Qty.*	*Description*
4	106-1025	7	Plug-HYD
4:1	237-78	1	O-Ring
3	353-512	2	Plug
3:1	237-78	1	O-Ring
5	106-1026	4	Plug-HYD
5:1	237-42	1	O-Ring
6	106-1027	5	Plug-HYD
6:1	237-79	1	O-Ring
7	110-0468	1	Valve-Check, 5 Psi
7:1	110-0470	1	Seal Kit
8	110-0491	2	Valve-Directional
8:1	106-6775	1	Seal Kit
9	110-0496	1	Valve-Reducing, Pressure
9:1	105-9154	1	Seal Kit
10	110-0493	1	Valve-Relief
10:1	110-6316	1	Seal Kit
11	110-0494	1	Valve-Solenoid
11:1	110-8773	1	Seal Kit
11:2	110-2634	1	Nut-Coil
12	107-7521	1	Coil-E, 12V
13	110-0495	2	Orifice (.050)
14	110-0498	1	Orifice (.030)



Traction Hydraulic Line Assembly

Ref.	Part Number	Qty.	Description
1	92-7536	1	Hose ASM
2	105-9818	1	Hose ASM
3	104-5476	1	Tube ASM
3:1	340-65	1	O-Ring
4	104-5478	1	Tube ASM
4:1	340-65	1	O-Ring
5	105-3864	1	Hose ASM
6	69-8950	2	Spacer
7	240-2	2	Grommet-Rubber
8	69-8920	4	Washer
9	104-5472	1	Tube ASM
9:1	340-65	1	O-Ring
10	110-0475	1	Tube ASM
11	105-3915	1	Tube ASM
12	104-5489	1	Tube ASM
14	110-0476	1	Tube ASM
15	104-5470	1	Tube ASM
16	105-3984	1	Tube ASM
17	105-3865	1	Tube ASM
18	104-5462	1	Tube ASM
19	104-5468	1	Tube ASM

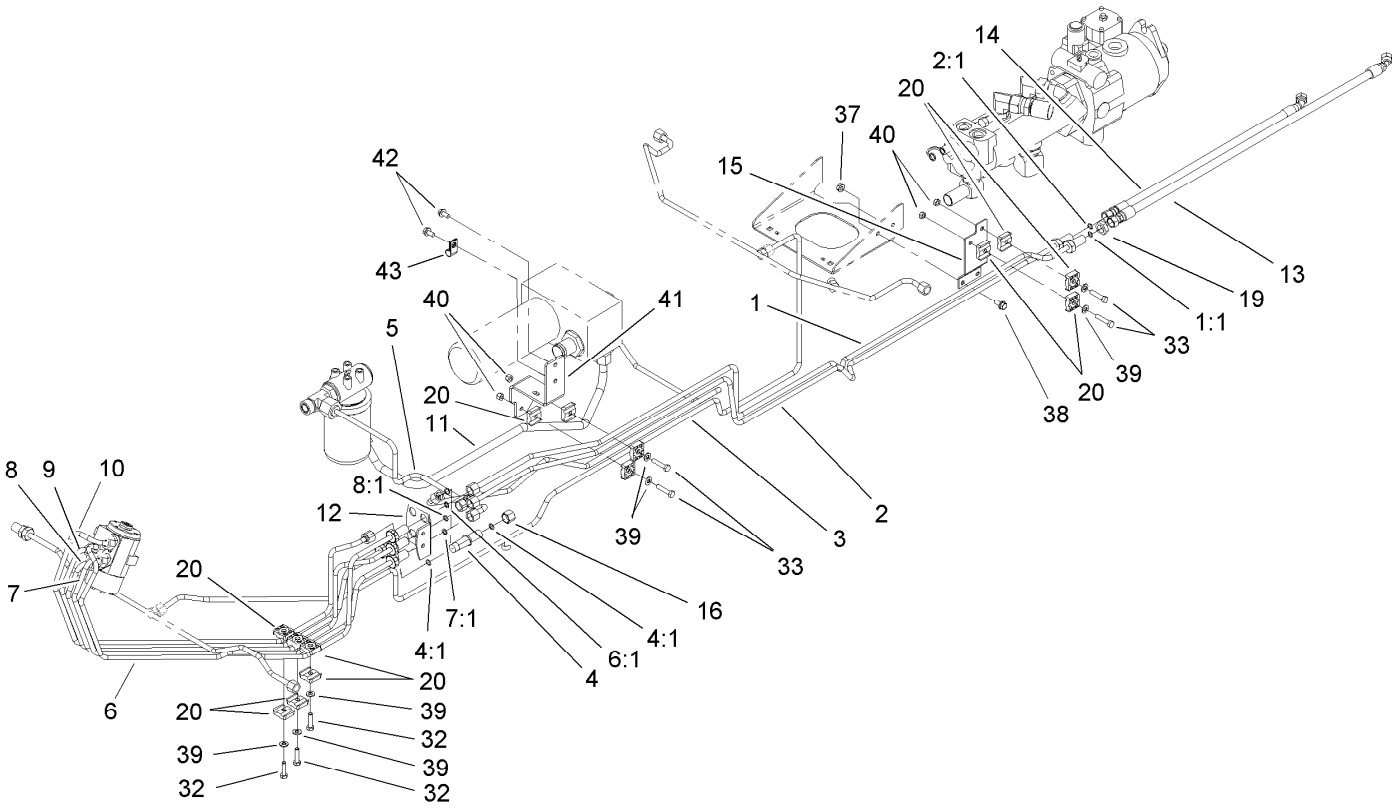
Ref.	Part Number	Qty.	Description
20	104-5473	1	Tube ASM
20:1	340-65	1	O-Ring
21	92-7534	1	Hose ASM
22	104-5464	2	Hose ASM
23	105-3985	1	Hose ASM
24	105-9863	1	Tube-HYD
24:1	237-22	1	O-Ring
25	86-5480	1	Nipple-Test
26	59-7410	1	Tip-Nipple, Diagnostic
26:1	237-42	1	O-Ring
27	340-126	2	Nut-Bulkhead
28	340-128	2	Nut-Bulkhead
29	340-70	1	Nut-Lock
30	56-7973	2	Clamp-Tube
31	322-6	1	Screw-HH
32	3256-23	2	Washer-Flat
33	3296-29	1	Nut-Lock, NI
34	354-79	2	Cap-Dust
35	340-86	1	Fitting-Tee
35:1	237-22	2	O-Ring
35:2	237-42	1	O-Ring



Hydraulic Mow Line Assembly

Ref.	Part Number	Qty.	Description
1	104-5483	2	Hose ASM
2	104-5488	1	Tube ASM
2:1	340-65	1	O-Ring
3	105-3892	1	Tube ASM
3:1	237-65	1	O-Ring
4	105-3891	1	Tube ASM
4:1	237-65	1	O-Ring
5	105-9862	1	Tube ASM
5:1	237-22	2	O-Ring
6	105-3895	1	Tube ASM
6:1	237-65	1	O-Ring
7	105-3885	1	Tube ASM
8	105-3893	1	Tube ASM
8:1	237-65	1	O-Ring
9	105-3894	1	Tube ASM
9:1	237-65	1	O-Ring
10	69-9000	13	Spacer
11	240-3	13	Grommet-Rubber
12	340-74	13	Nut-Lock, Bulkhead
13	69-9010	26	Washer
14	340-68	3	Fitting-Tee, Bulkhead
14:1	237-22	3	O-Ring
15	105-3914	1	Tube ASM
15:1	237-22	1	O-Ring
16	108-6063	1	Front Drain Tube ASM

Ref.	Part Number	Qty.	Description
16:1	237-22	2	O-Ring
17	105-3902	1	Tube ASM
17:1	237-65	1	O-Ring
18	105-3911	1	Tube ASM
19	105-3901	1	Tube ASM
19:1	237-65	2	O-Ring
20	105-3896	1	Tube ASM
20:1	237-65	1	O-Ring
21	105-3900	1	Tube ASM
21:1	237-65	2	O-Ring
22	105-3897	1	Tube ASM
22:1	237-65	1	O-Ring
23	110-0473	1	Tube ASM
23:1	340-65	1	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	322-13	1	Screw-HH
30	3256-23	4	Washer-Flat
31	3296-29	2	Nut-Lock, NI
32	56-7973	2	Clamp-Tube
33	340-72	1	Fitting-Bulkhead, 90 DEG
33:1	237-65	2	O-Ring

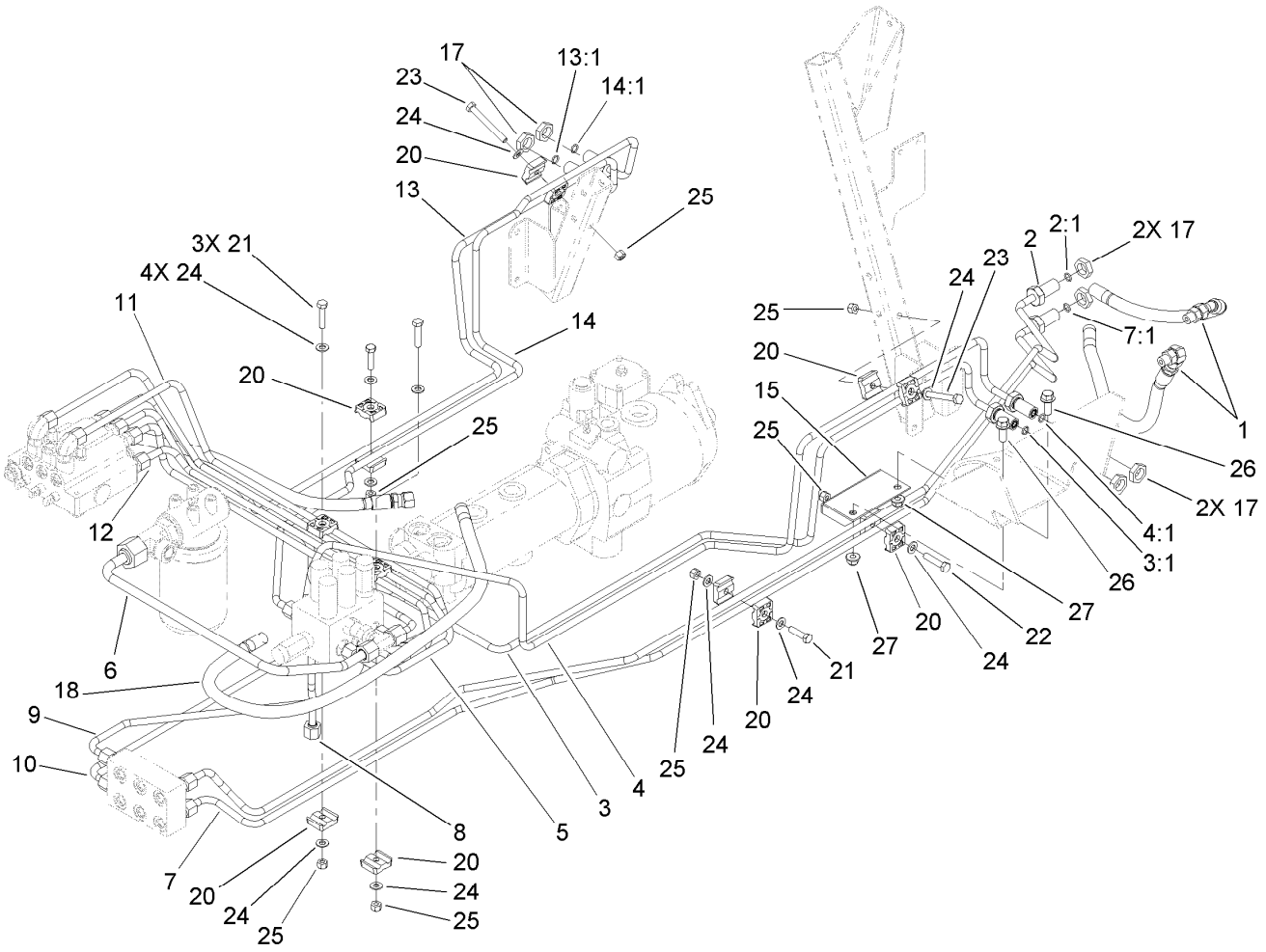


Hydraulic Steering Line Assembly

Ref.	Part Number	Qty.	Description
1	105-3871	1	Tube ASM
1:1	237-22	1	O-Ring
2	105-3870	1	Tube ASM
2:1	237-22	1	O-Ring
3	110-0477	1	Tube ASM
4	340-68	1	Fitting-Tee, Bulkhead
4:1	237-22	3	O-Ring
5	105-3886	1	Tube ASM
6	94-3060	1	HYD Tube ASM
6:1	237-22	1	O-Ring
7	94-3071	1	HYD Tube ASM
7:1	237-22	1	O-Ring
8	94-3059	1	HYD Tube ASM
8:1	237-22	1	O-Ring
9	94-3061	1	HYD Tube ASM
9:1	237-22	1	O-Ring ●
10	94-3062	1	HYD Tube ASM

Ref.	Part Number	Qty.	Description
11	110-0474	1	Tube ASM
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
19	340-70	7	Nut-Lock
20	56-7973	14	Clamp-Tube
32	322-6	3	Screw-HH
33	322-7	4	Screw-HH
37	32128-20	2	Nut-HF
38	3234-5	2	Screw-HHF
39	3256-23	7	Washer-Flat
40	3296-29	4	Nut-Lock, NI
41	105-3993-03	1	Bracket-Support, Tube
42	32144-14	2	Screw-HWHTF
43	2412-138	1	R-Clamp

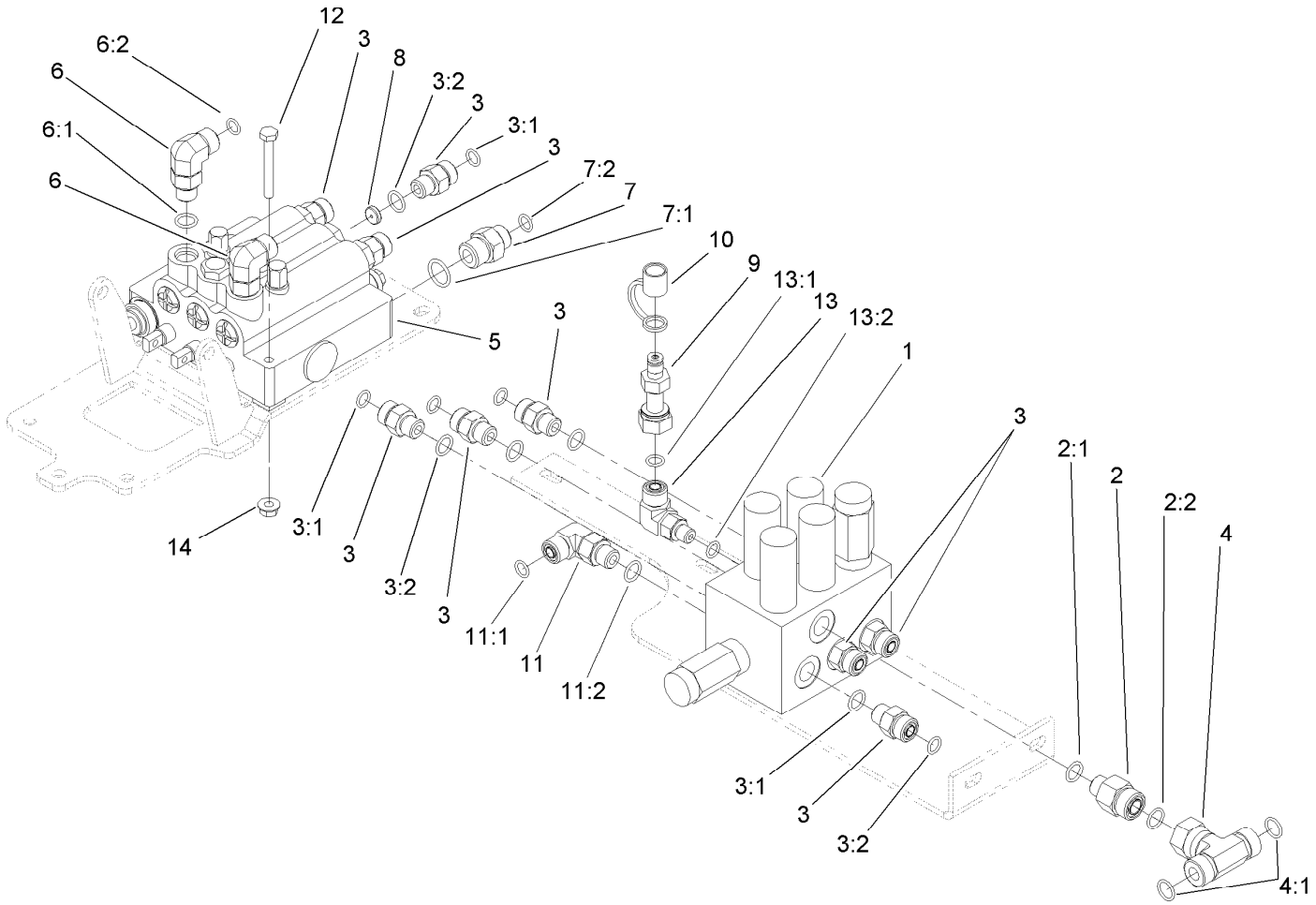
● Not illustrated



Hydraulic Lift Line 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	105-3926	1	Tube ASM
3:1	237-22	1	O-Ring
4	105-3927	1	Tube ASM
4:1	237-22	1	O-Ring
5	106-1041	1	Tube ASM
6	105-3860	1	Tube ASM
7	105-3989	1	Tube ASM
7:1	237-22	1	O-Ring
8	105-3928	1	Tube ASM
9	105-3916	1	Tube ASM
10	105-3917	1	Tube ASM
11	106-1040	1	Tube ASM
12	105-3920	1	Tube ASM

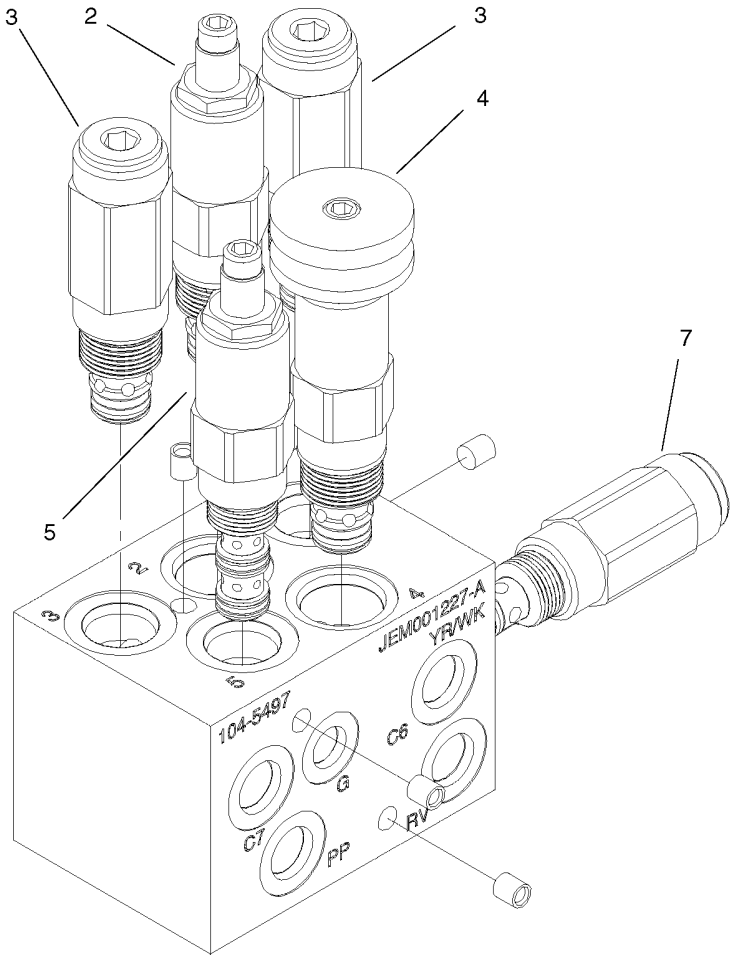
Ref.	Part Number	Qty.	Description
13	105-3924	1	Tube ASM
13:1	237-22	1	O-Ring
14	105-3925	1	Tube ASM
14:1	237-22	1	O-Ring
15	105-3990-03	1	Bracket-Support, Tube
17	340-70	6	Nut-Lock
18	105-9838	1	Hose ASM
20	56-7973	14	Clamp-Tube
21	322-6	4	Screw-HH
22	322-7	1	Screw-HH
23	322-13	2	Screw-HH
24	3256-23	9	Washer-Flat
25	3296-29	7	Nut-Lock, NI
26	3234-11	2	Screw-HHF
27	104-8301	2	Nut-Flange, NI



Lift Valve and Counter Balance Assembly

Ref.	Part Number	Qty.	Description
1	104-5497	1	Manifold ASM
2	340-5	1	Fitting-Straight
2:1	237-42	1	O-Ring
2:2	237-30	1	O-Ring
3	340-2	9	Fitting-HYD, Straight
3:1	237-22	1	O-Ring
3:2	237-42	1	O-Ring
4	93-6810	1	Fitting-Tee
4:1	237-30	2	O-Ring
5	112-5253	1	Valve-Spool, Three
6	340-77	2	Fitting-HYD, 90 DEG
6:1	237-22	1	O-Ring
6:2	237-42	1	O-Ring
7	340-3	2	Adapter

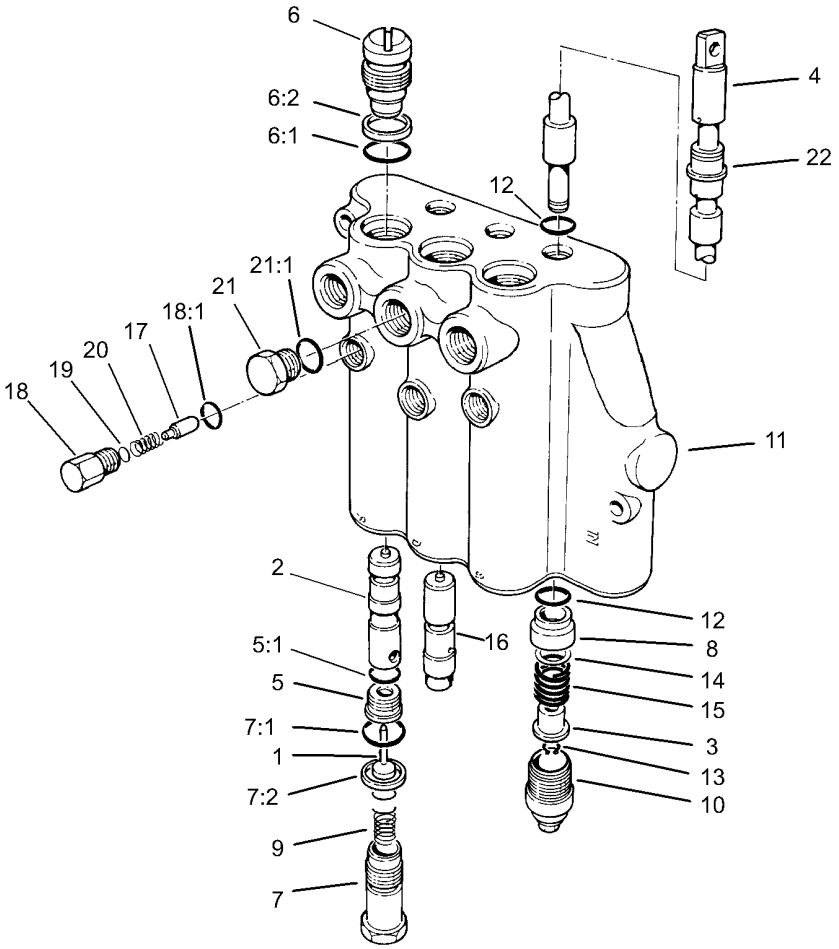
Ref.	Part Number	Qty.	Description
7:1	237-22	1	O-Ring
7:2	237-79	1	O-Ring
8	84-6402	1	Disc-Orifice
9	86-5480	1	Nipple-Test
10	354-79	1	Cap-Dust
11	340-77	1	Fitting-HYD, 90 DEG
11:1	237-22	1	O-Ring
11:2	237-42	1	O-Ring
12	321-11	2	Screw-HH
13	340-97	1	Fitting-HYD, 90 DEG
13:1	237-22	1	O-Ring
13:2	237-78	1	O-Ring
14	32128-33	2	Nut-HF



Manifold Assembly No. 104-5497

Ref.	*Part Number*	*Qty.*	*Description*
2	105-9161	1	Relief-Operated, Pilot
2:1	105-9151	1	Seal Kit ●
3	105-9165	2	Valve-Sequence
3:1	105-9164	1	Seal Kit ●
4	105-9162	1	Relief-Operated, Pilot
4:1	105-9151	1	Seal Kit ●
5	105-9163	1	Valve-Pilot Sequence, EXT
5:1	105-9164	1	Seal Kit ●
7	105-9844	1	Valve-Relief
7:2	105-9156	1	Seal Kit ●

● Not illustrated

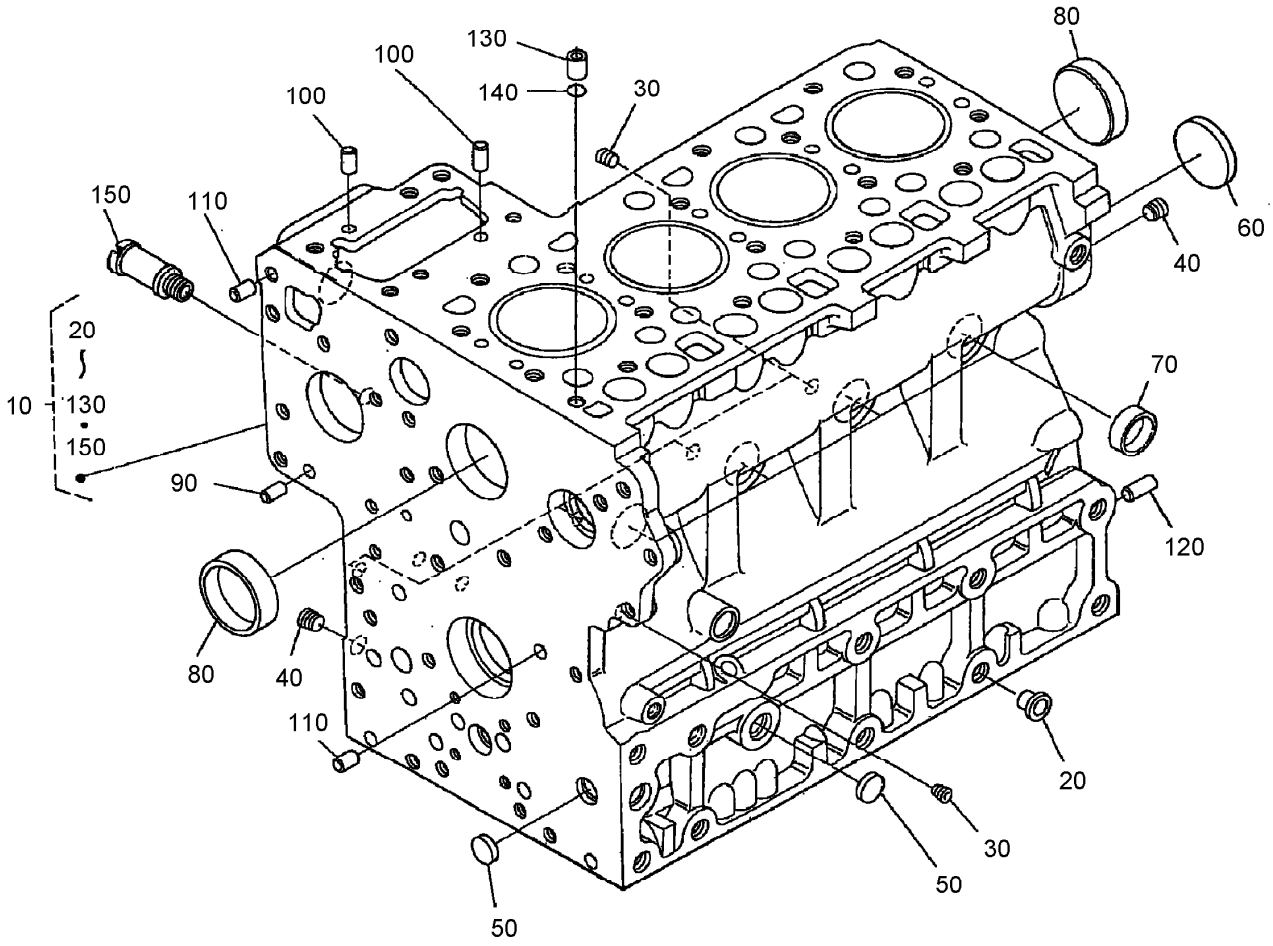


Three Spool Valve Assembly No. 112-5253

Ref.	Part Number	Qty.	Description
1	58-6290	3	Poppet
2	84-6420	2	Plunger
3	58-6310	3	Spacer
4		3	Spool ■
5	58-6330	3	Seat
5:1	58-6340	1	O-Ring
6	58-6350	3	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	69-1800	3	Plug ASM
7:1	60-5720	1	O-Ring
7:2	58-6370	1	Washer
8	58-6400	3	Bushing
9	69-1810	3	Spring
10	58-6420	3	Cap
11		1	Body ■
12	58-6450	6	O-Ring
13	58-6460	3	Ring-Retaining
14	58-6700	3	Washer
15	58-6730	3	Spring
16	69-1840	1	Plunger
17	58-6770	3	Plunger
18	58-6780	3	Plug
18:1	58-6790	1	O-Ring
19	60-6450	1	Disc
20	58-6760	3	Spring
21	353-508	1	Plug-HH
21:1	237-42	1	O-Ring
22	58-6320	3	Wiper
23	60-3780	1	Seal Kit ●

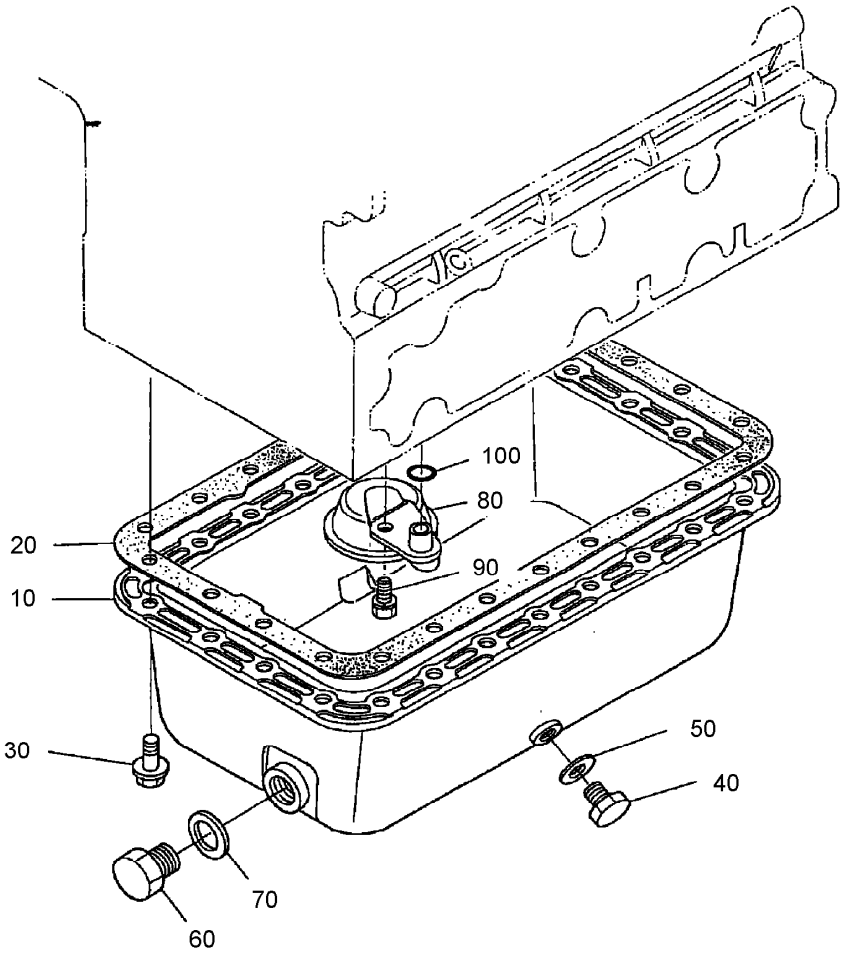
● Not illustrated

■ Not serviced separately



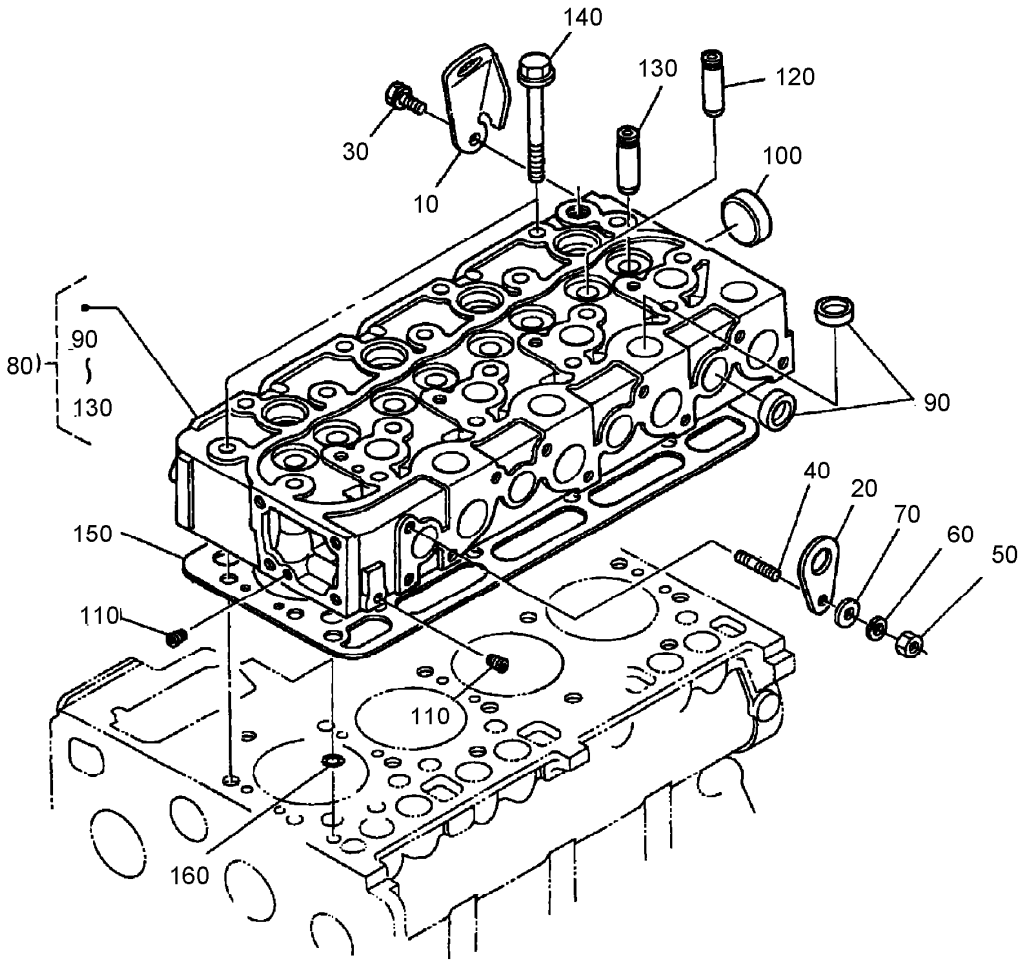
Crankcase Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-7051	1	Crankcase
20	98-7486	2	Plug
30	98-7487	6	Plug
40	107-0107	2	Plug
50	98-7489	3	Plug
60	98-9668	1	Plug-Expansion
70	98-7500	6	Cap-Sealing
80	98-7501	2	Cap-Sealing
90	98-7502	2	Pin-Straight
100	98-7503	2	Pin-Straight
110	98-7504	2	Pin-Straight
120	98-7505	1	Pin-Straight
130	98-7506	1	Pin-Pipe
140	98-7509	1	O-Ring
150	100-9153	1	Pipe-Return, Water



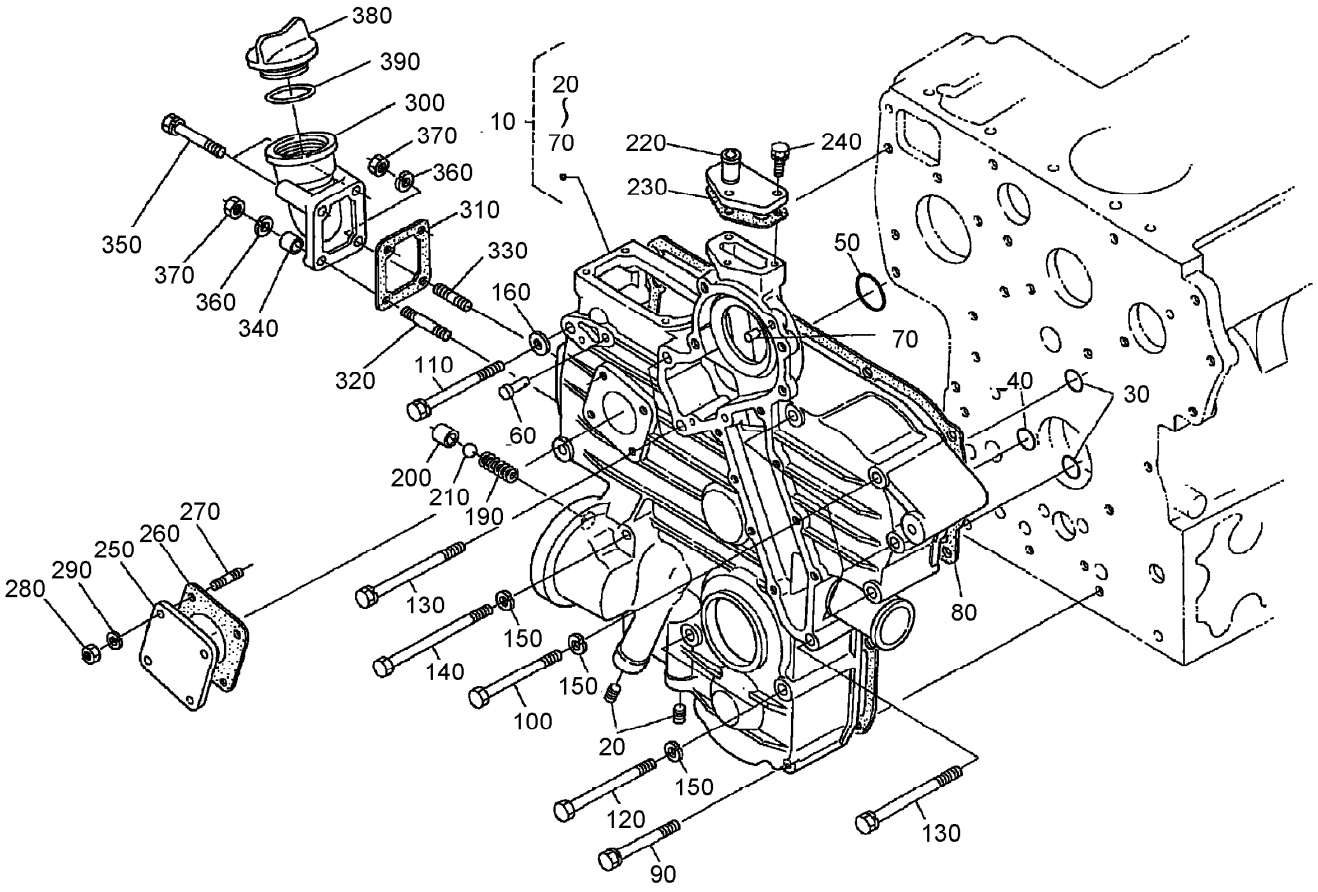
Oil Pan Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7520	1	Pan-Oil
20	108-7053	1	Gasket-Pan, Oil
30	110-6194	24	Bolt-Flange
40	98-9386	1	Plug
50	98-7524	1	Gasket
60	98-7529	1	Plug-Drain
70	98-7528	1	O-Ring
80	98-7525	1	Filter-Oil
90	98-7526	1	Bolt
100	108-7054	1	O-Ring



Cylinder Head Assembly

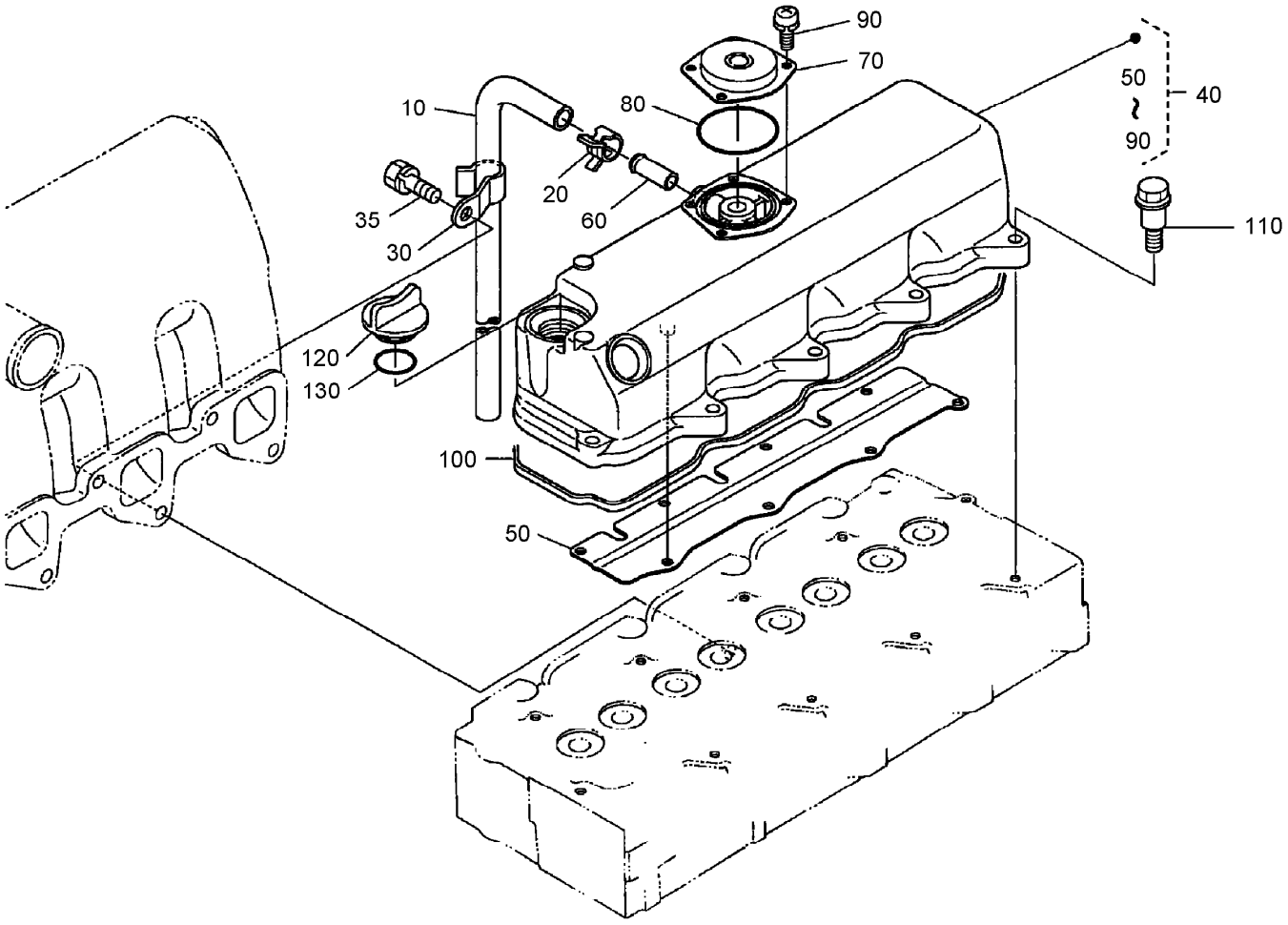
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7530	1	Hook-Engine
20	98-7531	1	Hook-Engine
30	98-7526	1	Bolt
40	98-7533	2	*obs* Stud
50	100-1559	1	Nut-Manifold, Exhaust
60	105-2893	1	Washer-Spring
70	98-7536	1	Washer-Plain
80	108-7055	1	Head-Cylinder
90	98-7538	12	Cap-Sealing
100	98-7539	1	Cap-Sealing
110	98-7540	2	Plug
120	98-7541	4	Guide-Valve, Intake
130	98-7542	4	Guide-Valve, Exhaust
140	98-7543	18	Bolt-Head, Cylinder
150	100-9160	1	Gasket-Head, Cylinder
160	98-7509	1	O-Ring



Gear Case Assembly

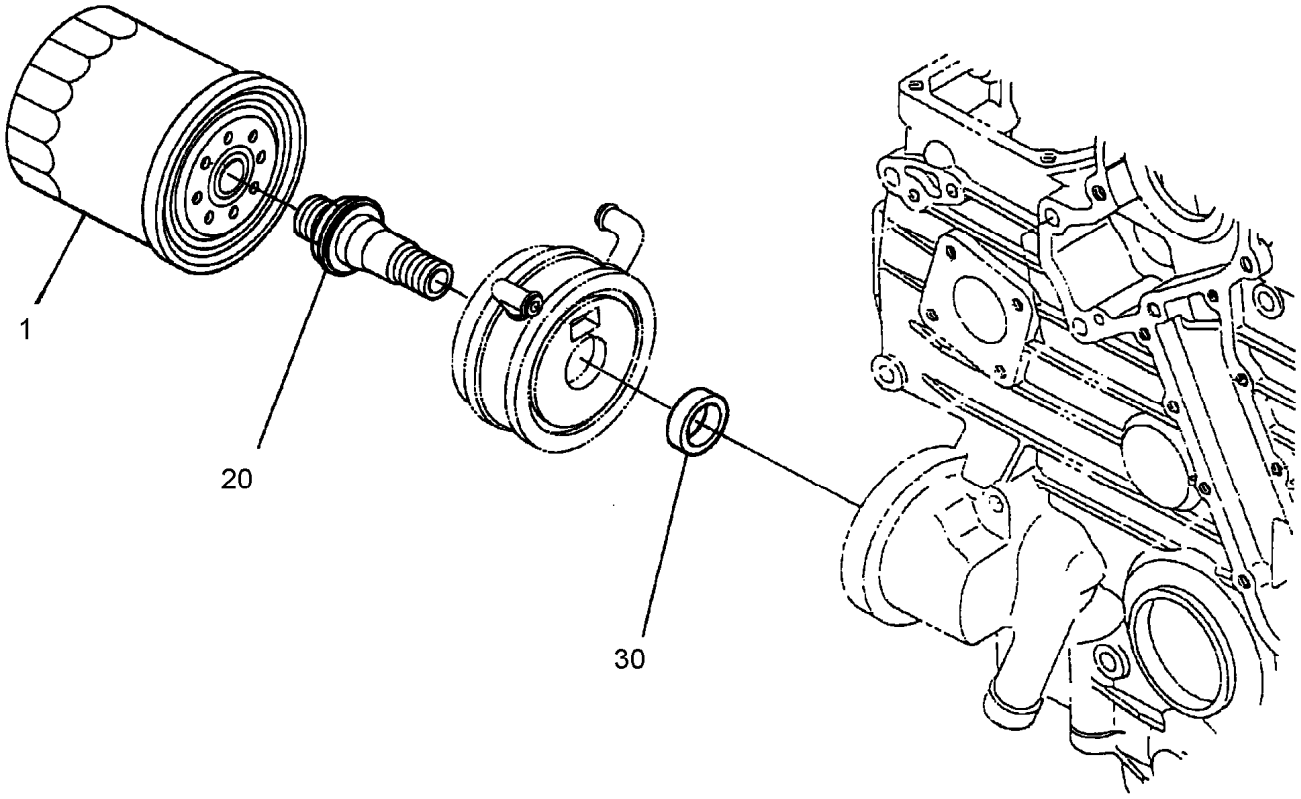
Ref.	Part Number	Qty.	Description
10	100-9161	1	Gearcase ASM
20	107-0108	2	Plug
30	107-0104	2	O-Ring
40	107-0105	1	O-Ring
50	107-0106	1	O-Ring
60	98-7550	1	Pin-Spring, Start
70	98-7504	2	Pin-Straight
80	98-7552	1	Packing-Case, Gear
90	98-7553	2	Bolt
100	99-8336	5	Bolt
110	98-7555	1	Bolt
120	98-7556	2	Bolt
130	98-7557	3	Bolt
140	98-7558	2	Bolt
150	105-2893	9	Washer-Spring
160	98-7536	1	Washer-Plain
190	98-7563	1	Spring
200	98-7564	1	Seat-Valve
210	98-7565	1	Ball

Ref.	Part Number	Qty.	Description
220	98-7566	1	Flange-Return, Water
230	98-7567	1	Gasket
240	98-7568	3	Bolt
250	98-7569	1	Cover
260	98-7570	1	Gasket-Meter, Hour
270	98-7571	4	Stud
280	98-7572	4	Nut
290	98-7699	4	Washer-Spring
300	100-9162	1	Flange-Filter, Oil
310	100-9163	1	Gasket
320	98-7571	1	Stud
330	100-9164	1	Stud
340	100-9165	1	Collar
350	107-9073	2	Bolt
360	98-7699	2	Washer-Spring
370	98-7572	2	Nut
380	98-7429	1	Plug-Filter, Oil
390	108-7064	1	O-Ring



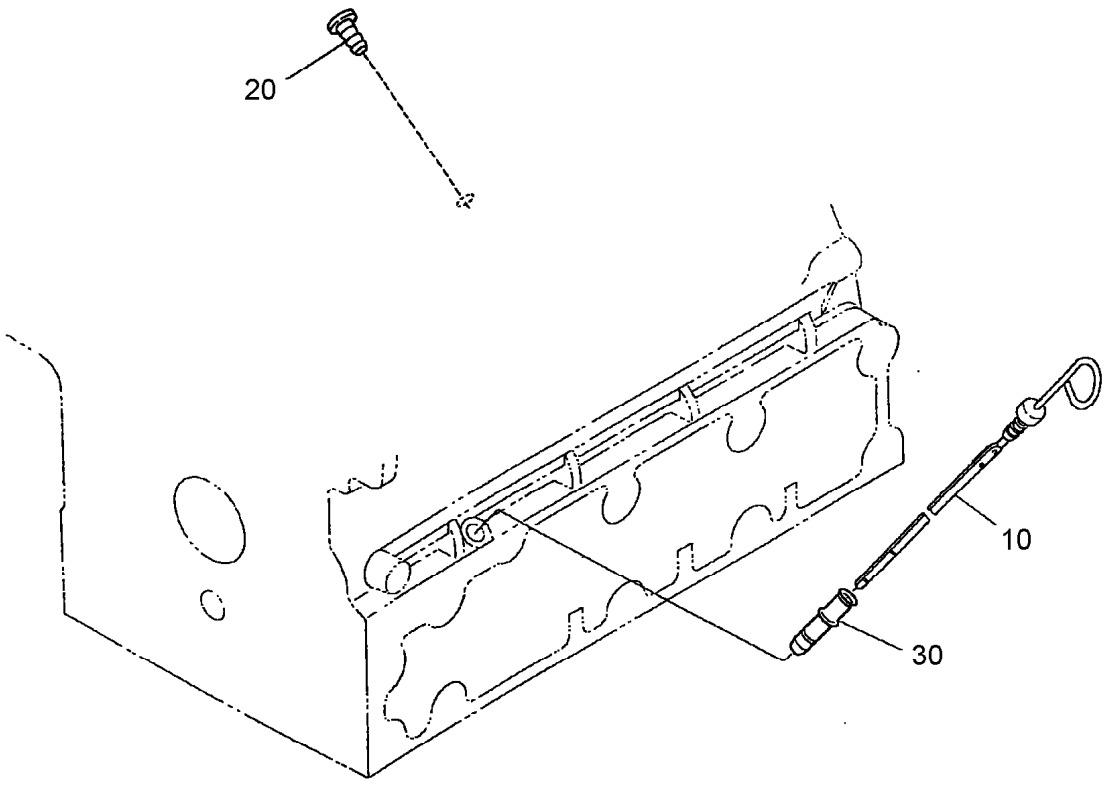
Head Cover Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-7056	1	Tube-Breather
20	108-2859	1	Clamp-Hose
30	108-7057	1	Clamp-Tube, Breather
35	98-7610	1	Bolt
40	108-7058	1	Cylinder Head Cover ASM
50	108-7059	1	Shield-Breather
60	98-7766	1	Pipe-Return, Water
70	108-7060	1	Cover-Breather
80	108-7061	1	O Ring-Breather
90	98-9364	4	Screw (With Washer)
100	108-7062	1	Gasket-Cover, Head
110	108-7063	10	Bolt
120	98-7429	1	Plug-Filter, Oil
130	108-7064	1	O-Ring



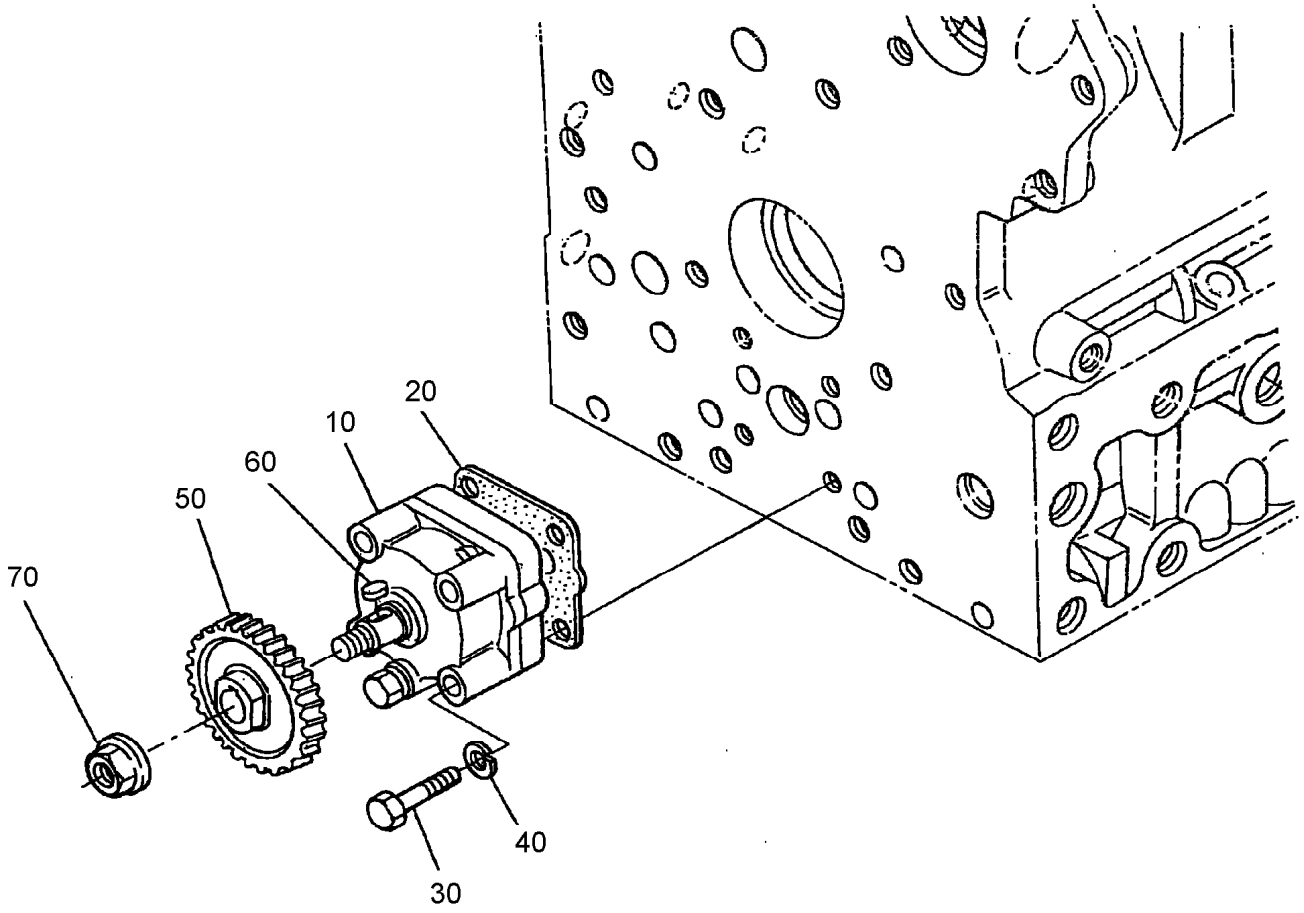
Oil Filter Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	104-5169	1	Filter-Oil
20	100-9166	1	Connector
30	100-9167	1	Collar



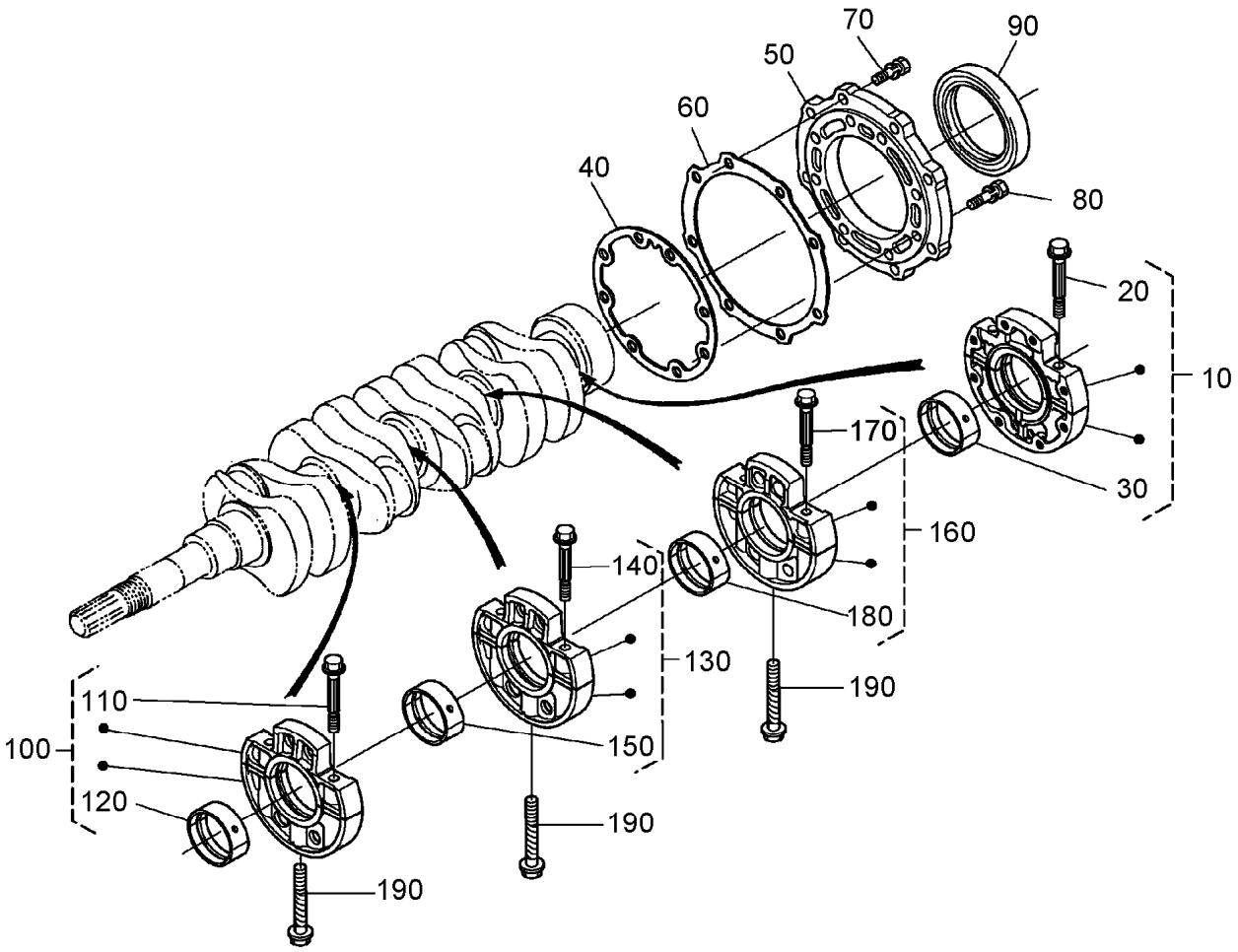
Dipstick and Guide Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-4579	1	Gauge-Oil
20	100-9169	1	*obs* Plug-Gauge, Oil
30	105-4580	1	Guide-Gauge, Oil



Oil Pump Assembly

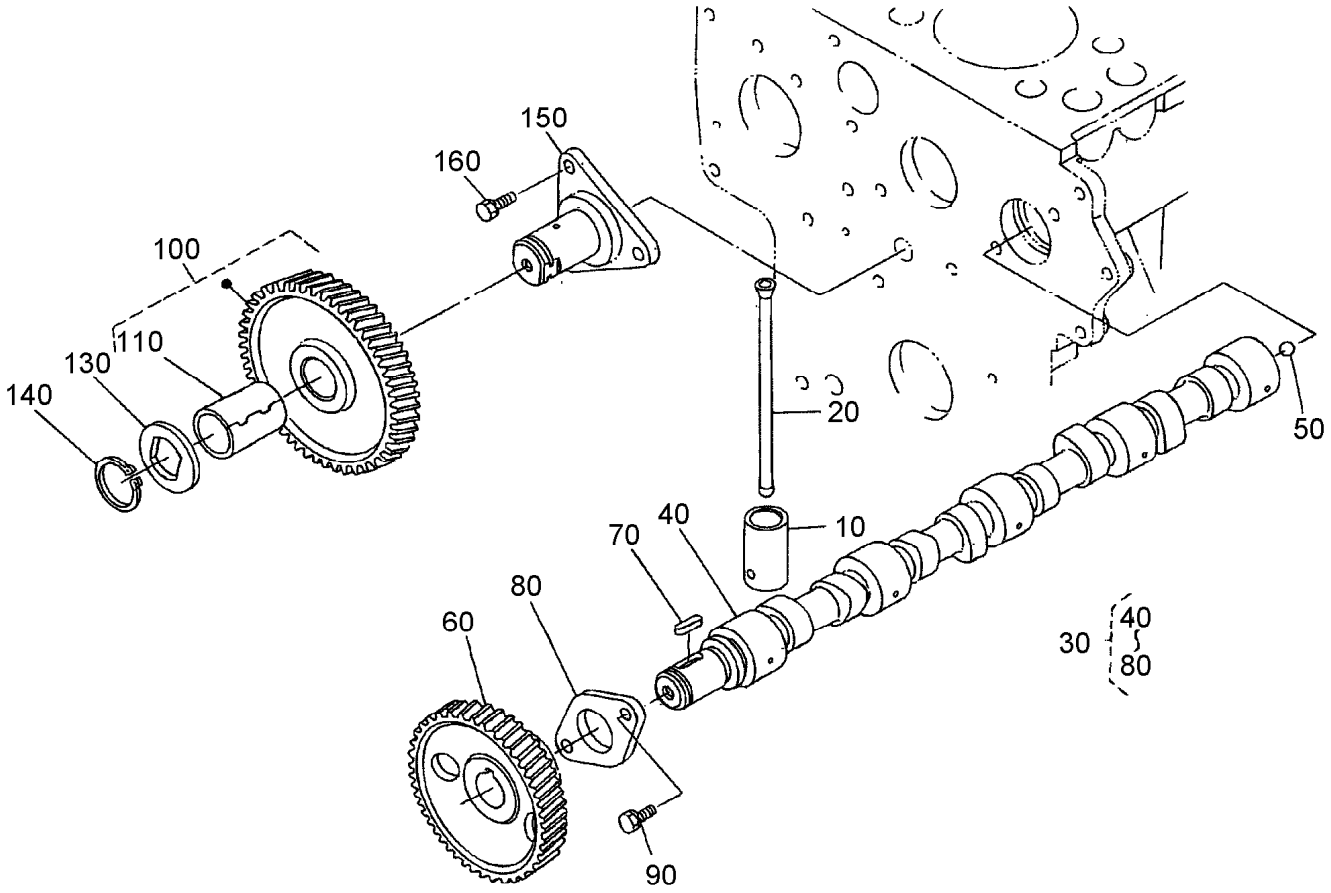
Ref.	*Part Number*	*Qty.*	*Description*
10	100-9170	1	Oil Pump ASM
20	98-7513	1	Gasket-Pump, Oil
30	98-7514	4	Bolt
40	98-7699	4	Washer-Spring
50	98-7516	1	Gear-Drive, Oil Pump
60	98-7517	1	Key-Feather
70	98-7518	1	Nut-Flange



Main Bearing Case

Ref.	Part Number	Qty.	Description
10	108-7065	1	Wheel Bearing Case ASM
20	108-7066	2	Bolt-Case, Bearing
30	108-7069	1	Metal-Crankshaft (-0.40Mm)
30	108-7068	1	Metal-Crankshaft (-0.20Mm)
30	108-7067	1	Metal-Crankshaft (STD)
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	108-7073	1	Main Bearing Case ASM
110	108-7066	2	Bolt-Case, Bearing

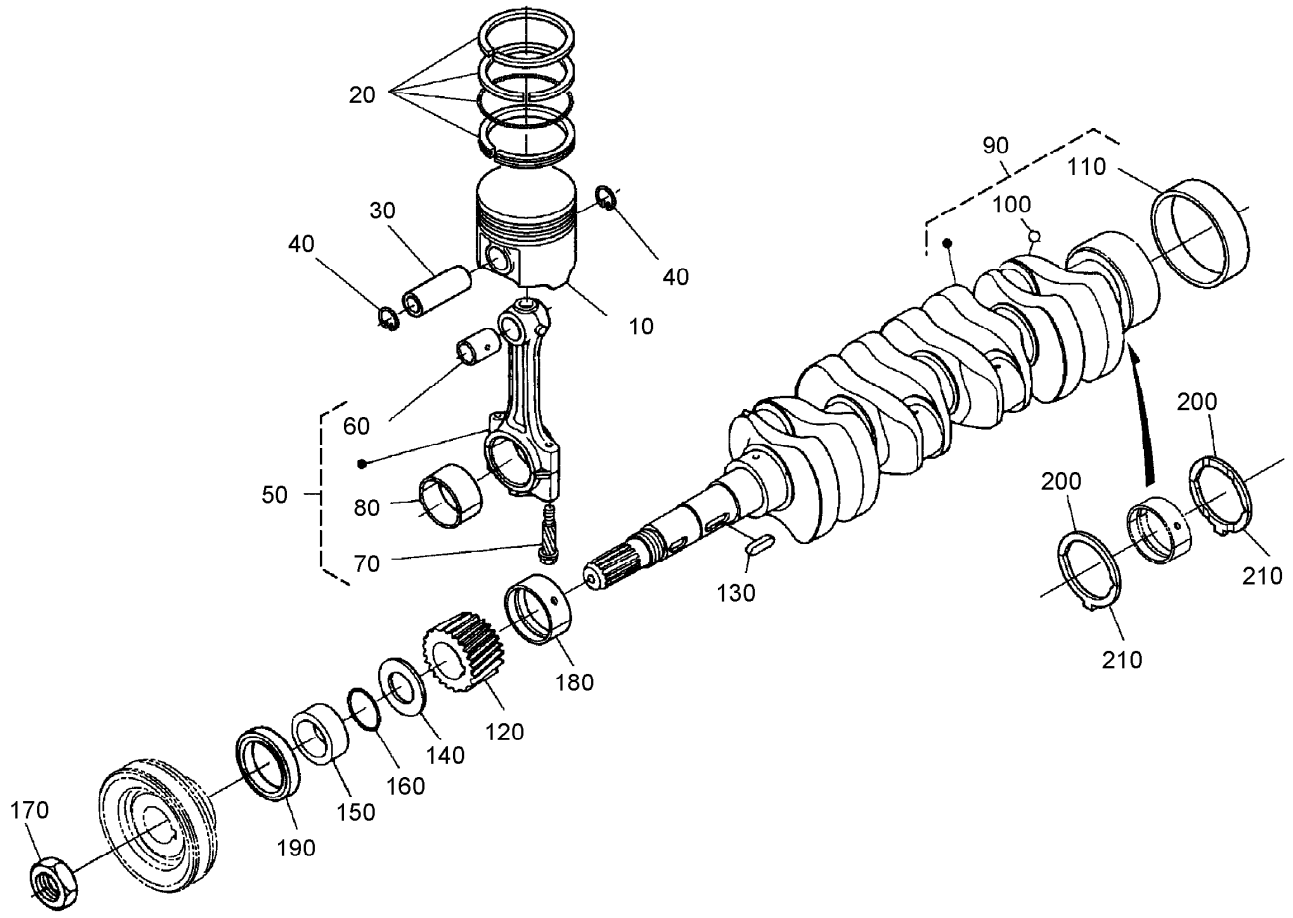
Ref.	Part Number	Qty.	Description
120	108-7069	1	Metal-Crankshaft (-0.40Mm)
120	108-7068	1	Metal-Crankshaft (-0.20Mm)
120	108-7067	1	Metal-Crankshaft (STD)
130	108-7074	1	Main Bearing Case ASM
140	108-7066	2	Bolt-Case, Bearing
150	108-7067	1	Metal-Crankshaft (STD)
150	108-7068	1	Metal-Crankshaft (-0.20Mm)
150	108-7069	1	Metal-Crankshaft (-0.40Mm)
160	108-7097	1	Main Bearing Case ASM
170	108-7066	2	Bolt-Case, Bearing
180	108-7069	1	Metal-Crankshaft (-0.40Mm)
180	108-7068	1	Metal-Crankshaft (-0.20Mm)
180	108-7067	1	Metal-Crankshaft (STD)
190	98-7444	3	Bolt-Case, Bearing



Camshaft and Idler Gear Shaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7445	8	Tappet
20	98-7446	8	Rod-Push
30	100-9179	1	Camshaft ASM
40		1	Camshaft ●
50	98-7473	1	Ball
60	98-7450	1	Gear-Camshaft
70	98-7451	1	Key-Feather
80	98-7452	1	Stopper-Camshaft
90	98-7453	2	Bolt
100	107-0109	1	Gear-Idler
110	98-7455	1	Bushing-Gear, Idler
130	107-0111	1	Collar
140	107-0112	1	Circlip-External
150	107-0113	1	Shaft-Gear, Idler
160	98-7453	3	Bolt

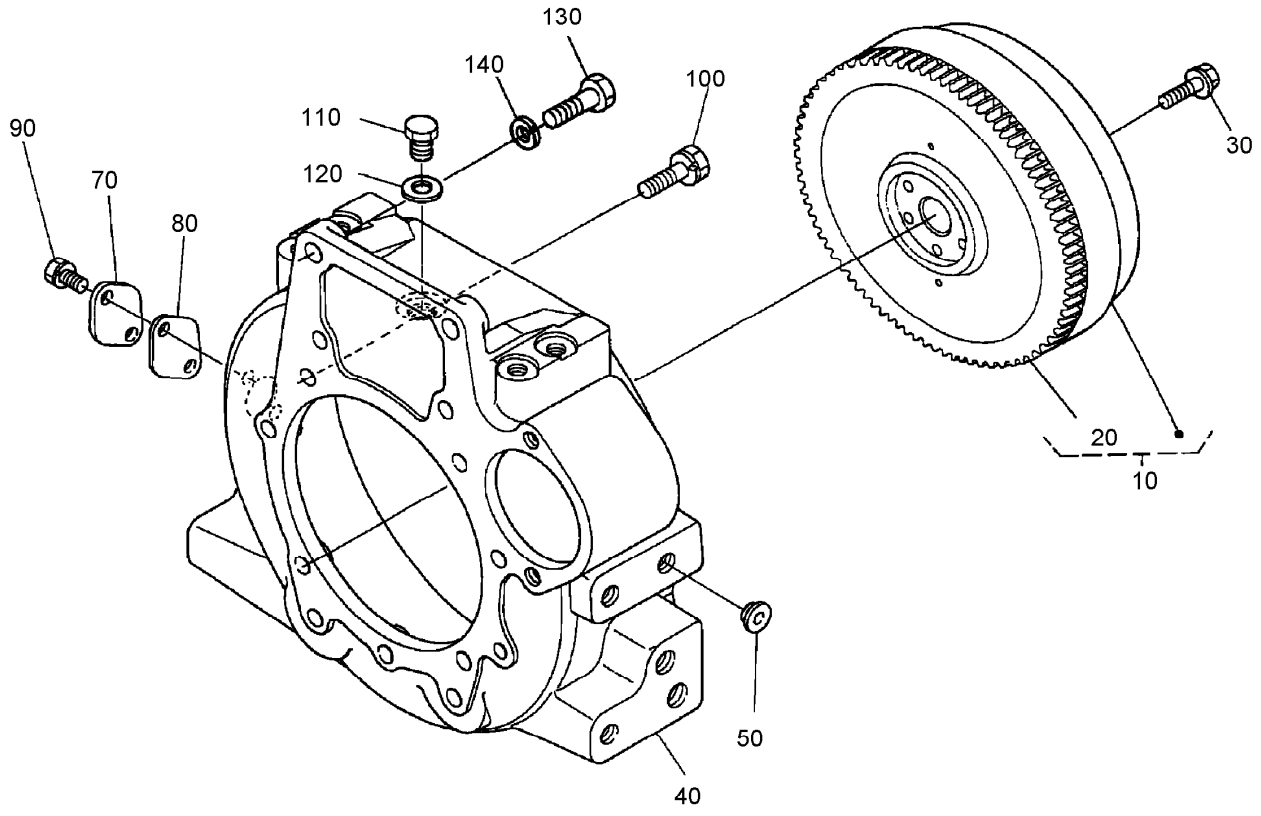
● Not serviced separately



Piston and Crankshaft Assembly

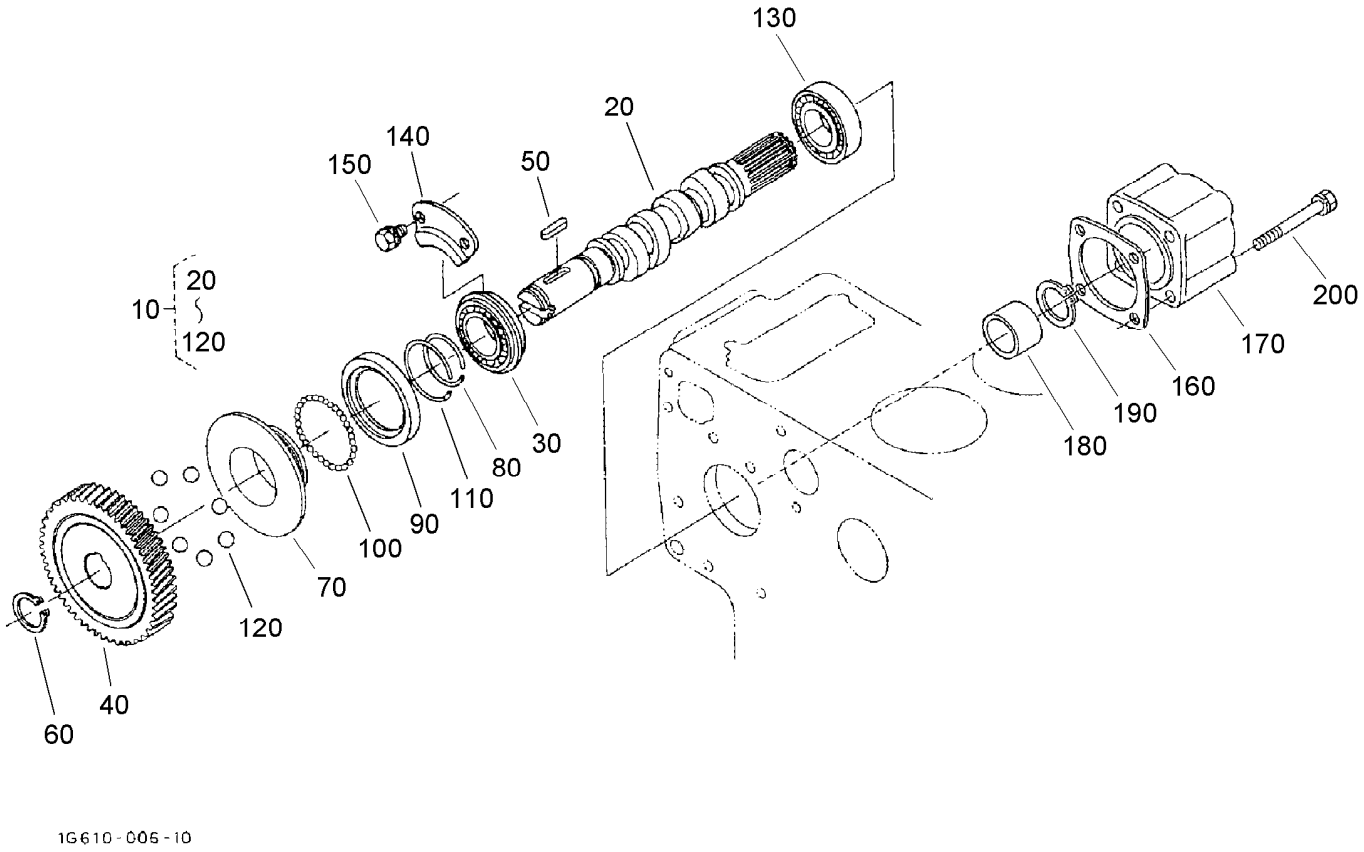
Ref.	Part Number	Qty.	Description
10	112-7000	4	Piston ASM
10	99-5435	1	Piston (.50Mm)
20	99-5436	1	Piston Ring ASM (0.50Mm)
20	100-9182	4	Piston Ring ASM (STD)
30	98-7464	4	Pin-Piston
40	98-7465	8	Clip-Pin, Piston
50	98-7466	4	Connecting Rod ASM
60	98-7467	4	Bushing-Pin, Piston
70	98-7468	8	Bolt-Rod, Connecting
80	98-7471	4	Metal-Crankpin (-0.40Mm)
80	98-7470	4	Metal-Crankpin (-0.20Mm)
80	98-7469	4	Metal-Crankpin (STD)
90	110-6195	1	Crankshaft-Complete (350001 Or Newer)
90	98-7472	1	Crankshaft-Complete (Prior To 350001)
100	98-7473	4	Ball

Ref.	Part Number	Qty.	Description
110	98-7474	1	Sleeve-Crankshaft
120	98-7475	1	Gear-Crankshaft
130	98-7451	1	Key-Feather
140	98-7476	1	Slinger-Oil
150	98-7477	1	Collar-Crankshaft
160	98-7478	1	O-Ring
170	98-7479	1	Nut-Crankshaft
180	108-7077	1	Metal-Crankshaft (-0.40Mm)
180	108-7075	1	Metal-Crankshaft (STD)
180	108-7076	1	Metal-Crankshaft (-0.20Mm)
190	98-7480	1	Seal-Oil
200	108-7080	2	Metal-Side (+0.40Mm)
200	108-7079	2	Metal-Side (+0.20Mm)
200	108-7078	2	Metal-Side (STD)
210	108-7083	2	Metal-Side (+0.40Mm)
210	108-7082	2	Metal-Side (+0.20Mm)
210	108-7081	2	Metal-Side (STD)



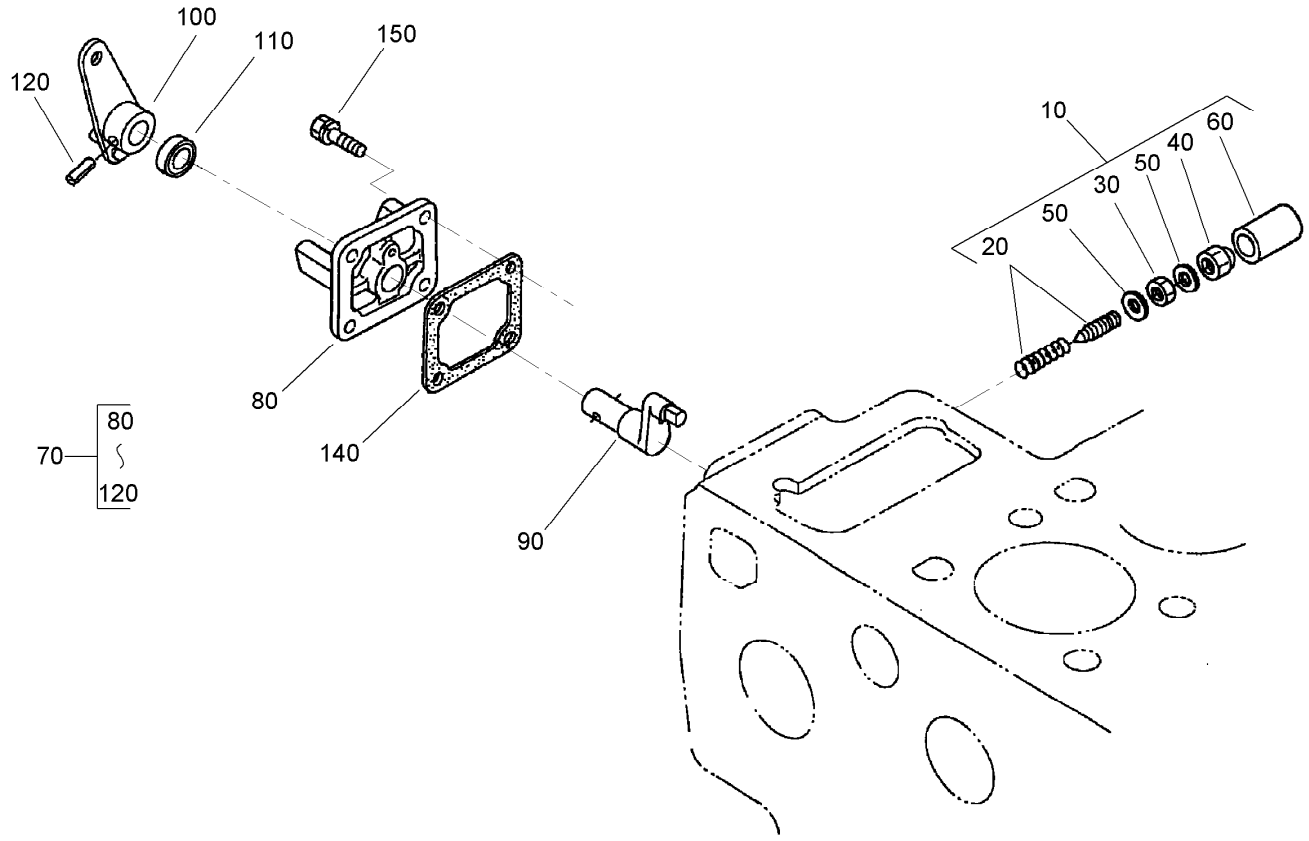
Flywheel Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7532	1	Flywheel
20	98-7560	1	Gear-Ring
30	98-7573	6	Bolt-Flywheel
40	98-7559	1	Housing-Flywheel
50	100-9189	2	Plug
70	98-7883	1	Cover
80	98-7886	1	Gasket
90	105-4577	2	Bolt
100	98-7885	11	Bolt
110	98-7546	1	Plug
120	100-9194	1	Washer-Plain
130	107-0114	2	Bolt
140	107-0118	2	Washer-Spring



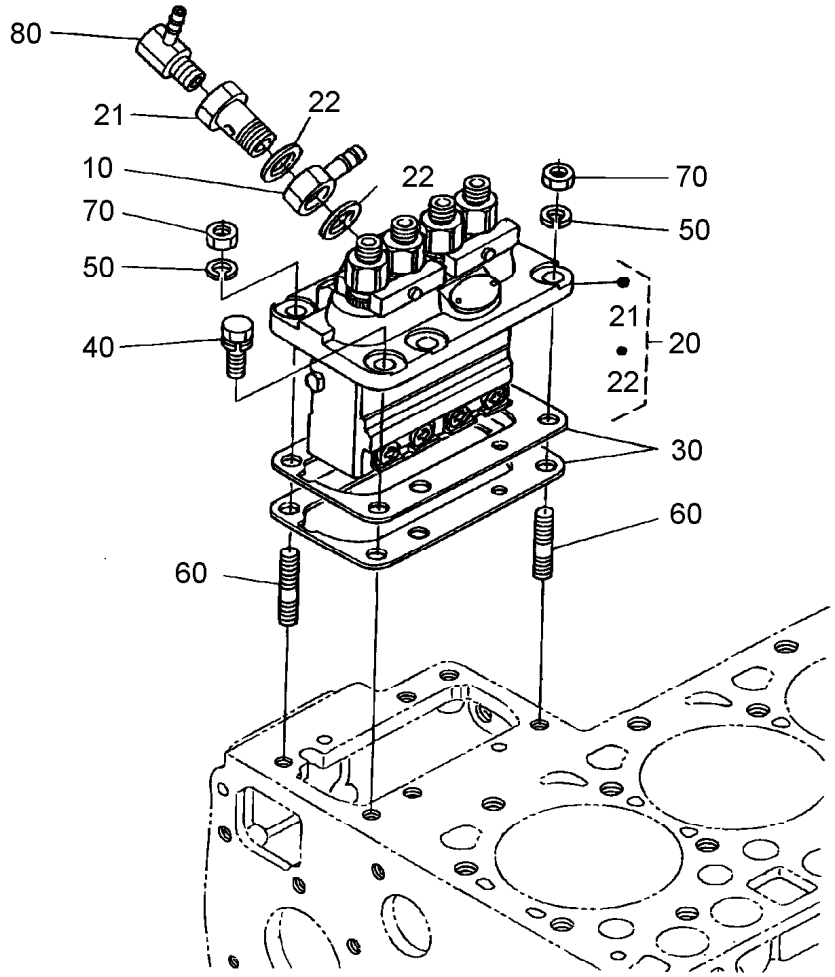
Fuel Camshaft and Governor Shaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7551	1	Fuel Camshaft ASM
20	98-7508	1	Camshaft-Fuel
30	98-7595	1	Bearing-Ball
40	98-7574	1	Gear-Pump, Injection
50	98-7575	1	Key-Feather
60	98-7576	1	Circlip-External
70	98-7577	1	Sleeve-Governor
80	98-7578	1	Circlip-Sleeve, Governor
90	98-7579	1	Case-Ball, Governor
100	98-7580	39	Ball
110	98-7581	1	Circlip
120	98-7582	7	Ball
130	108-7084	1	Bearing-Ball
140	98-7584	1	Stopper
150	100-9195	2	Bolt
160	98-7588	1	Gasket
170	98-7586	1	Cover-Fuel, Camshaft
180	98-7587	1	Collar
190	98-7589	1	Circlip-External
200	98-7590	4	Bolt



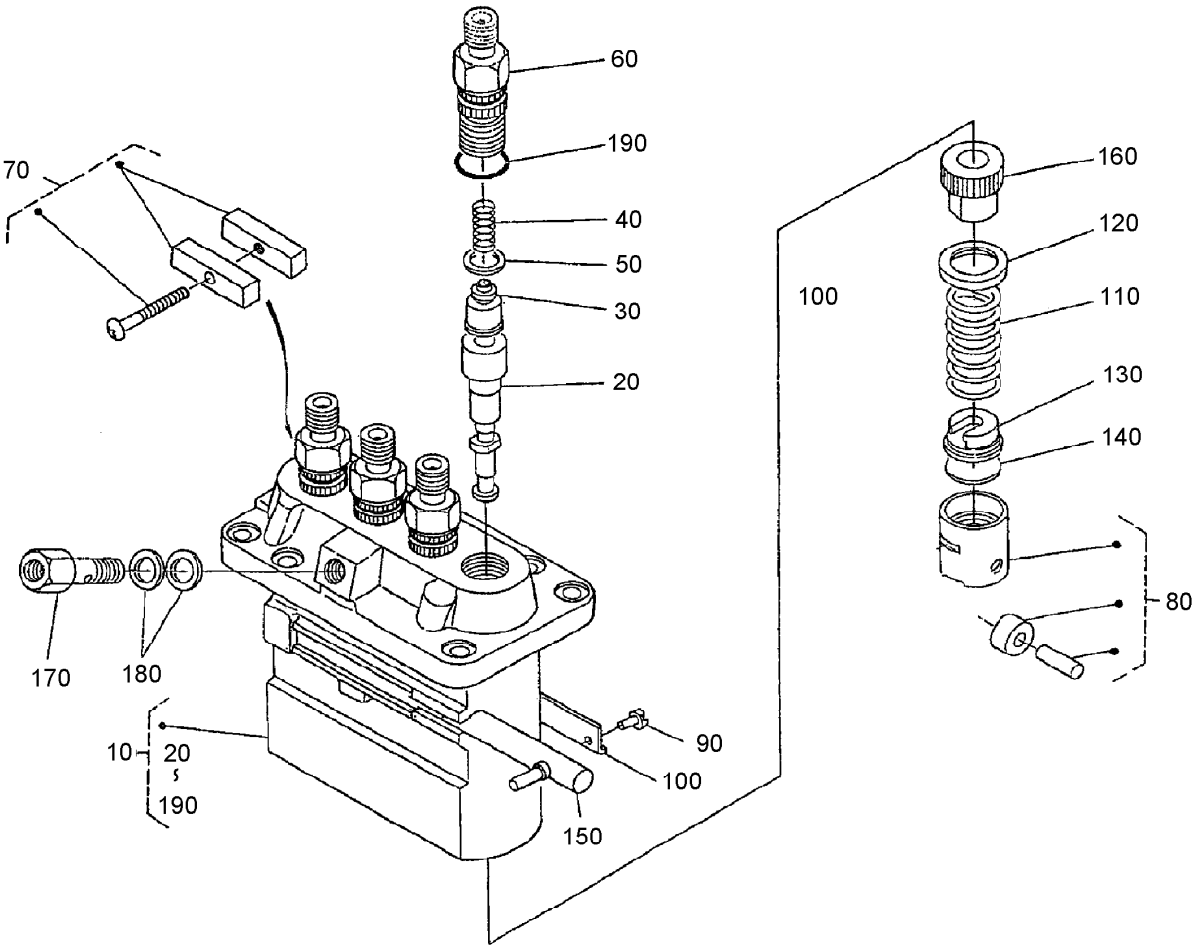
Engine Stop Lever Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7591	1	Idle Appartus ASM
20	98-7592	1	Adjusting Bolt ASM
30	98-7593	1	Nut
40	98-7594	1	Nut-Cap
50	98-7428	2	Gasket
60	98-7596	1	Cap
70	100-9198	1	Engine Stop Lever ASM
80	98-7598	1	Cover-Pump, Injection
90	100-9200	1	Shaft-Lever
100	98-7600	1	Lever-Stop, Engine
110	98-7601	1	Seal-Oil
120	98-7602	1	Pin-Spring
140	98-7604	1	Gasket-Cover, Pump
150	98-7605	4	Bolt



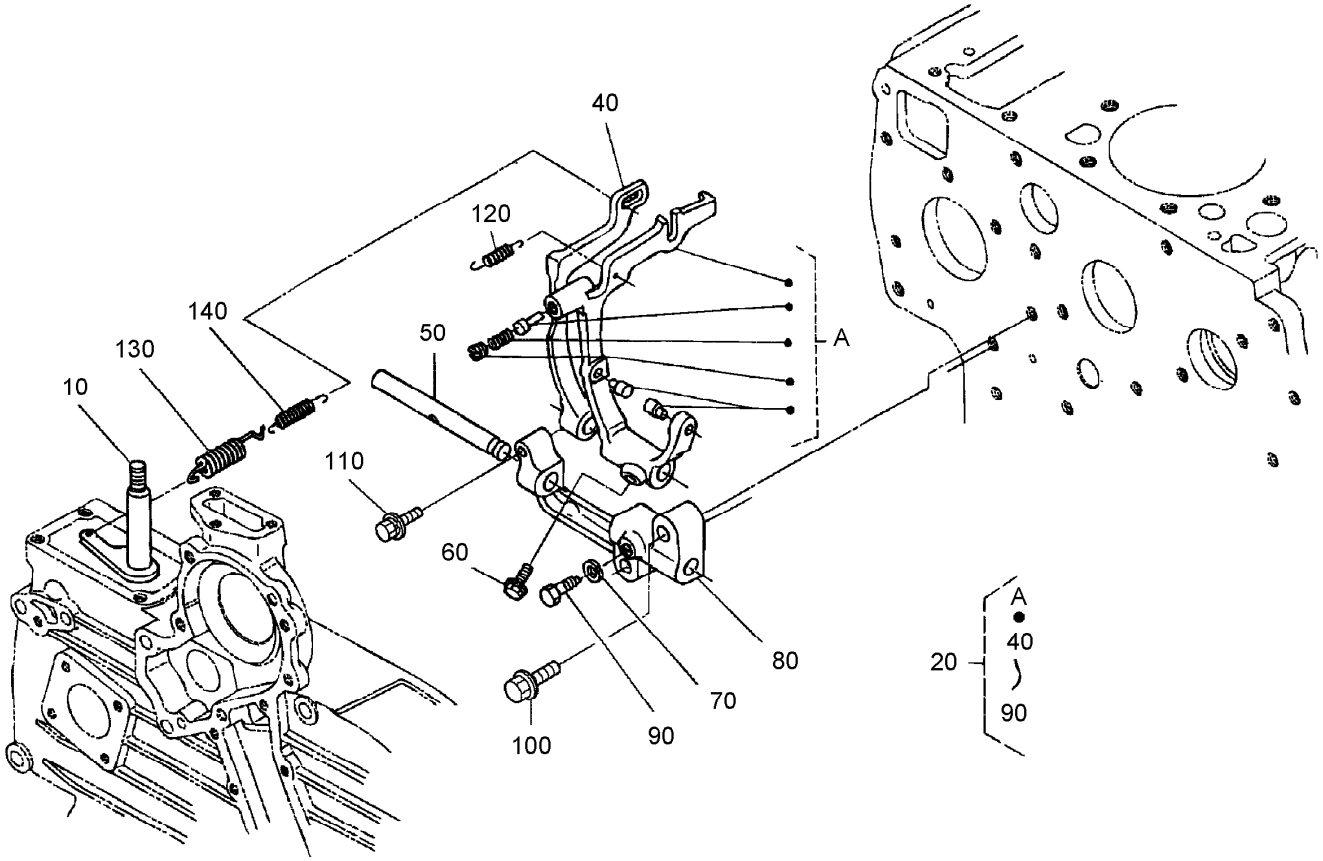
Injection Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7617	1	Joint
20	100-9201	1	Injection Pump ASM
21	98-7635	1	Screw
22	98-7636	2	Gasket
30	98-7609	1	Shim-Pump, Injection
30	98-7608	1	Shim
30	98-7607	1	Shim-Pump, Injection (0.200Mm)
40	98-7610	4	Bolt
50	105-2893	2	Washer-Spring
60	100-1558	2	Stud
70	98-7534	2	Nut
80	107-4300	1	Orifice ASM



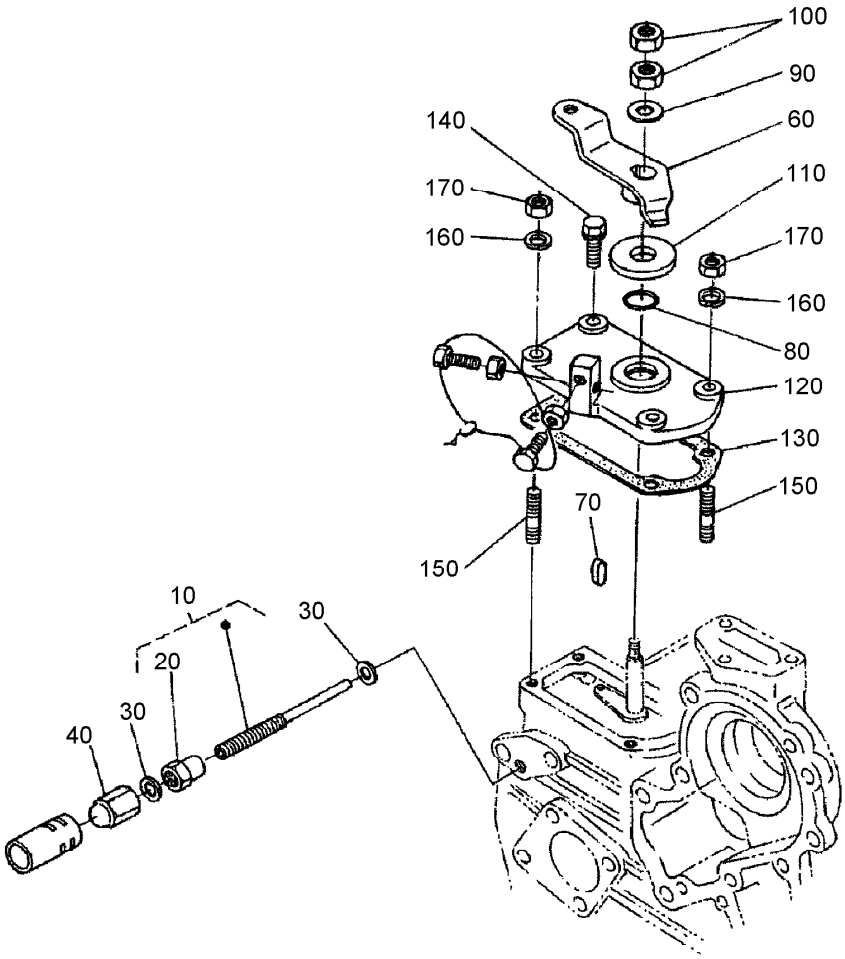
Injection Pump (Component Part) Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9201	1	Injection Pump ASM
20	98-7619	4	Plunger-Pump
30	98-7620	4	Valve-Delivery
40	98-7621	4	Spring-Valve, Delivery
50	98-7622	4	Gasket-Valve, Delivery
60	98-7623	4	Holder-Valve, Delivery
70	98-7624	2	Lock Plate ASM
80	98-7625	4	Tappet ASM
90	98-7626	4	Pin-Guide, Tappet
100	98-7627	2	Plate
110	98-7628	4	Spring-Plunger
120	98-7629	4	Seat-Spring, Upper
130	98-7630	4	Seat-Spring, Lower
140	98-7631	4	Shim
150	98-7632	1	Rack-Control
160	98-7634	4	Sleeve-Control
170	98-7635	1	Screw
180	98-7636	2	Gasket
190	98-7637	4	O-Ring



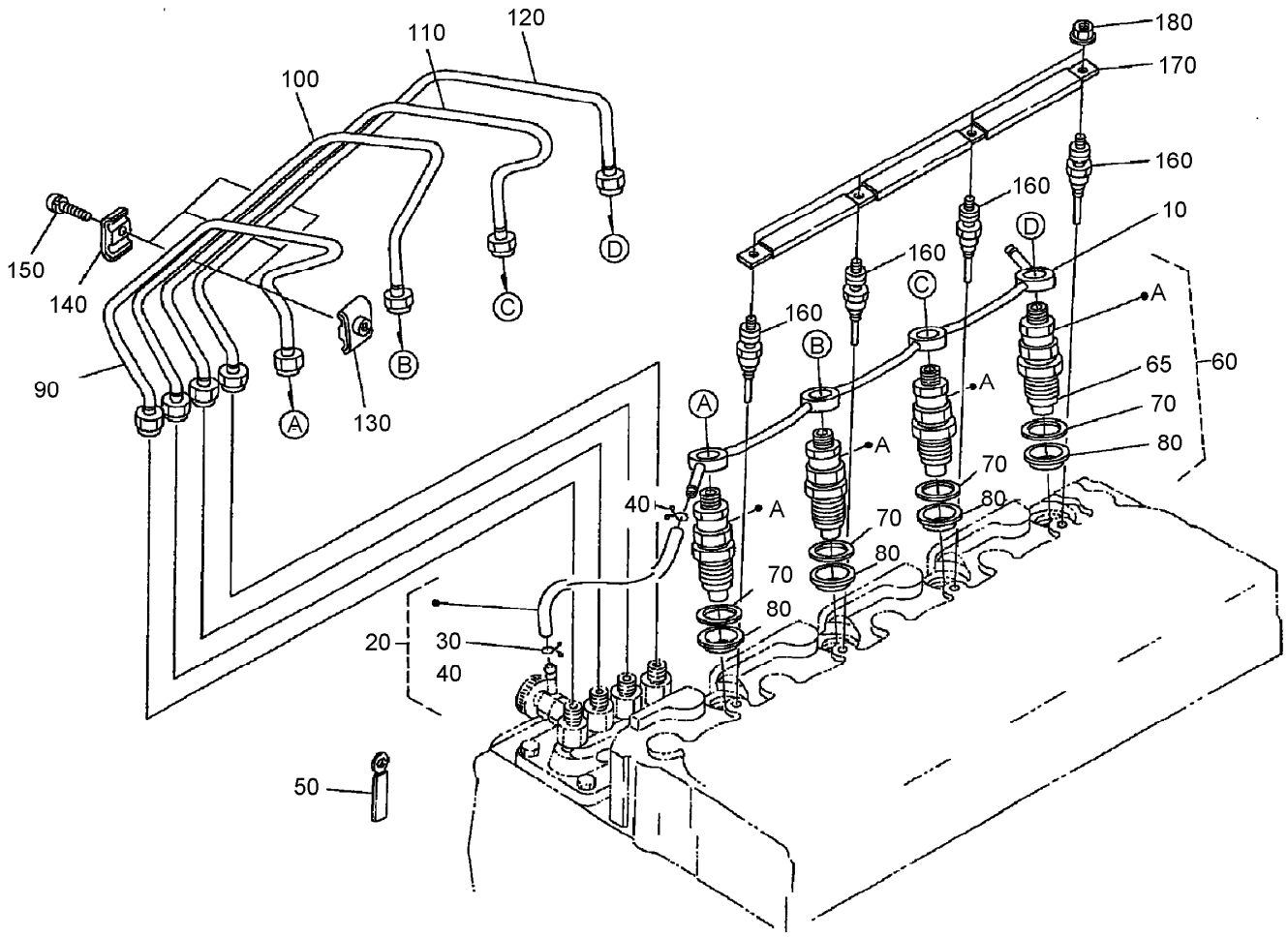
Governor Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7638	1	Lever-Governor
20	100-9204	1	Lever-Fork
40	100-9206	1	Lever-Fork
50	107-0120	1	Shaft-Lever, Fork
60	107-0116	1	Bolt-Flange
70	98-7699	1	Washer-Spring
80	98-7643	1	Holder-Lever, Fork
90	98-7644	1	Bolt
100	108-7085	2	Bolt-Flange
110	108-7086	1	Bolt
120	100-9207	1	Spring-Start
130	100-9208	1	Spring-Governor
140	98-7651	1	Spring-Governor



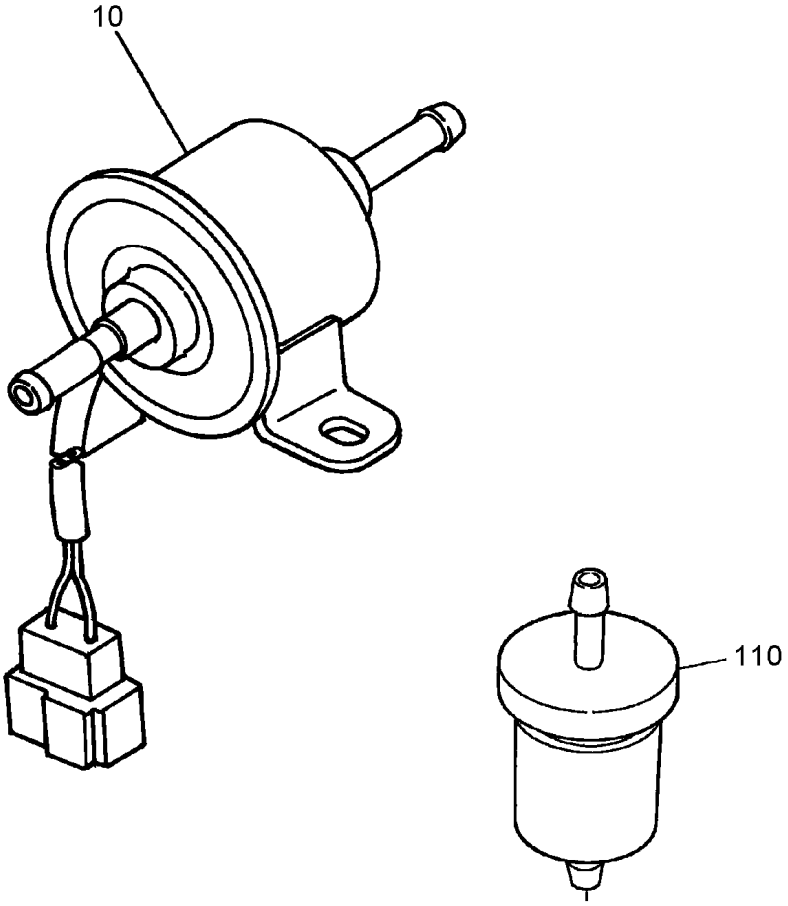
Speed Control Plate Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-0132	1	Adjustable Bolt ASM
20	98-7653	1	Nut
30	98-7654	2	Gasket
40	98-7655	1	Nut-Cap
60	98-7657	1	Lever-Control, Speed
70	98-7658	1	Key-Feather
80	108-7087	1	O Ring
90	98-7660	1	Washer-Plain
100	98-7661	2	Nut
110	98-7662	1	Collar
120	98-7663	1	Plate-Control, Speed
130	98-7664	1	Gasket
140	98-7568	2	Bolt
150	98-7571	2	Stud
160	98-7699	2	Washer-Spring
170	98-7572	2	Nut



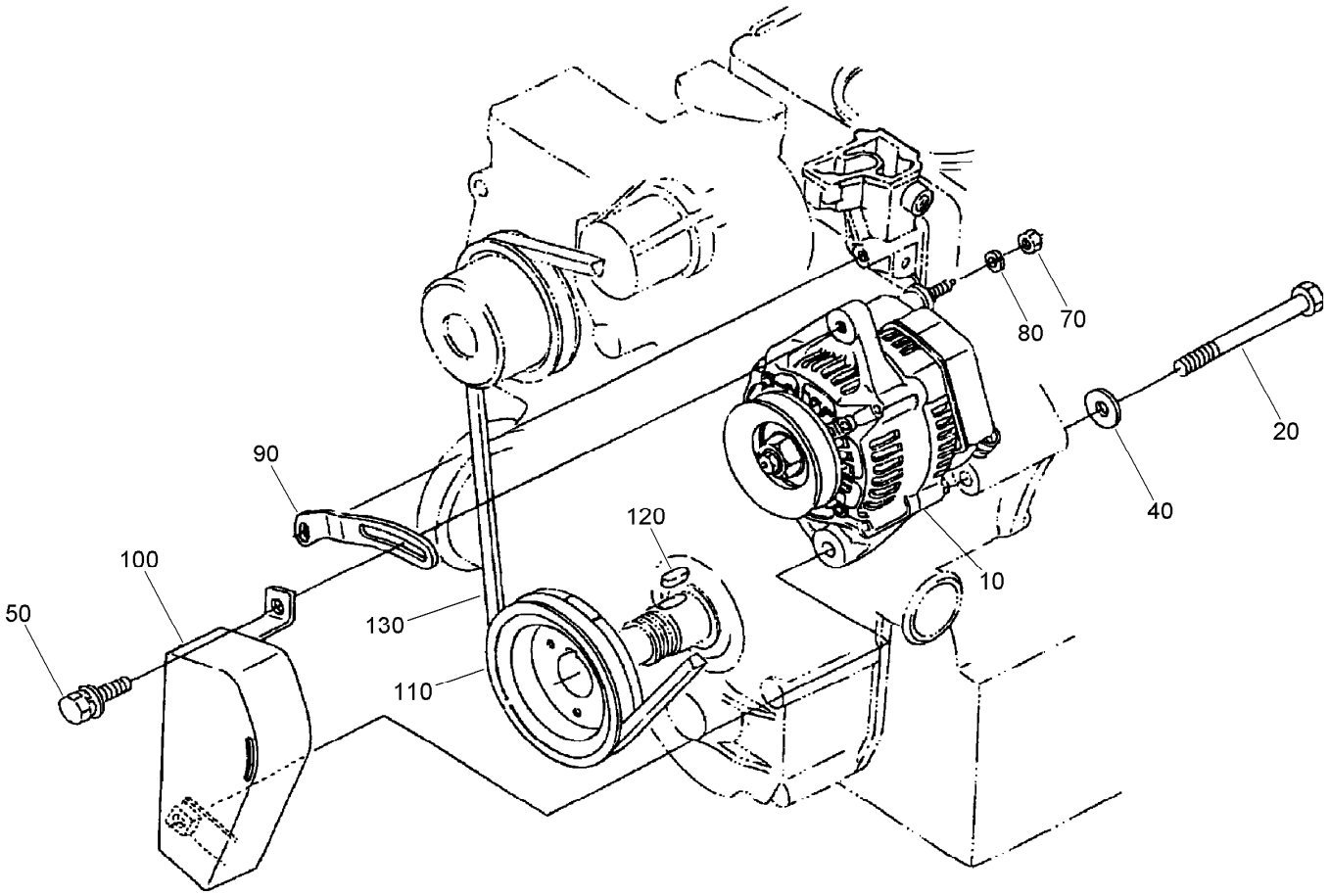
Nozzle Holder and Glow Plug Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9213	1	Overflow Pipe ASM
20	98-7670	1	Overflow Pipe ASM
30	98-7671	1	Clip-Pipe
40	98-7672	1	Clip-Pipe
50	98-7673	1	Clamp-Cord
60	100-9214	1	Nozzle Holder Kit
65	100-9215	4	Piece-Nozzle
70	98-7676	4	Gasket
80	98-7677	4	Seal-Heat
90	100-9216	1	Pipe-Injection
100	100-9217	1	Pipe-Injection
110	100-9218	1	Pipe-Injection
120	100-9219	1	Pipe-Injection
130	98-7682	3	Clamp-Pipe
140	98-7683	3	Clamp-Pipe
150	98-9364	3	Screw (With Washer)
160	98-7685	4	Plug-Glow
170	98-7686	1	Cord-Plug, Glow
180	99-8377	4	Nut-Flange



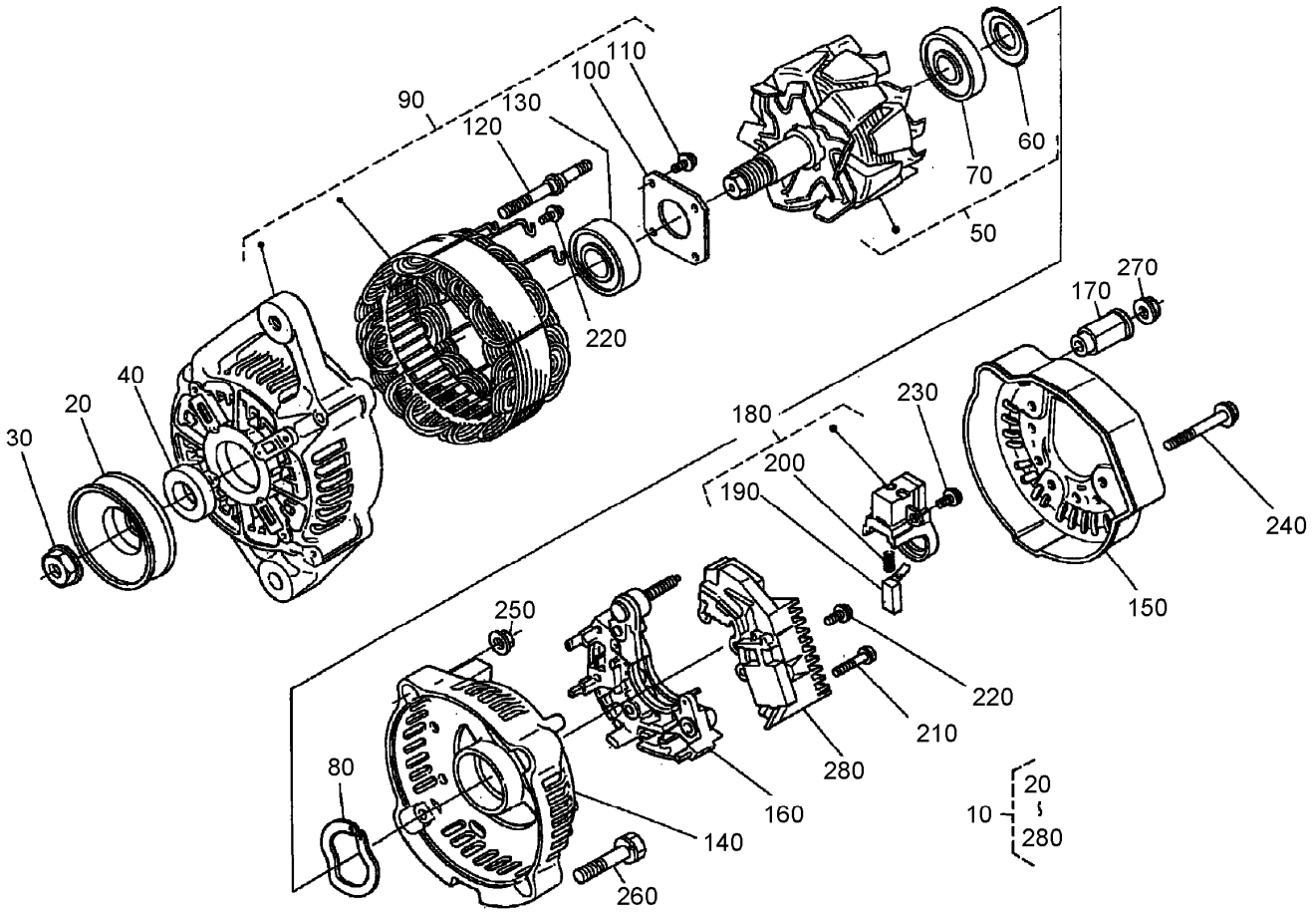
Fuel Filter and Fuel Pump

Ref.	*Part Number*	*Qty.*	*Description*
10	107-0122	1	Pump-Fuel, Electric
110	98-7612	1	Filter-Fuel



Alternator and Pulley Assembly

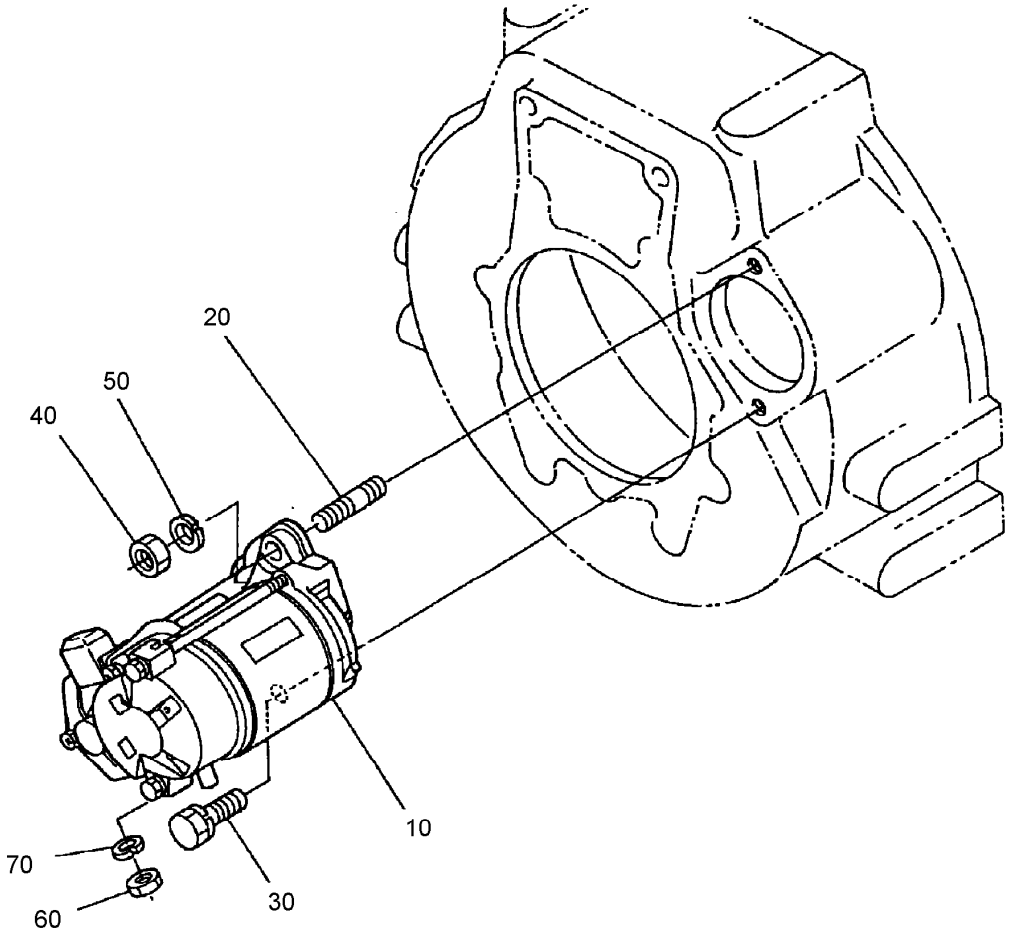
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7693	1	Alternator ASM
20	98-7695	1	Bolt
40	98-9366	1	Washer-Plain
50	108-7088	1	Bolt
70	98-7572	1	Nut
80	98-7699	1	Washer-Spring
90	105-2872	1	Bracket-Alternator
100	98-7701	1	Cover-Belt
110	106-2044	1	Pulley-Drive, Fan
120	98-7451	1	Key-Feather
130	98-7705	1	V-Belt



Alternator (Component Part) Assembly

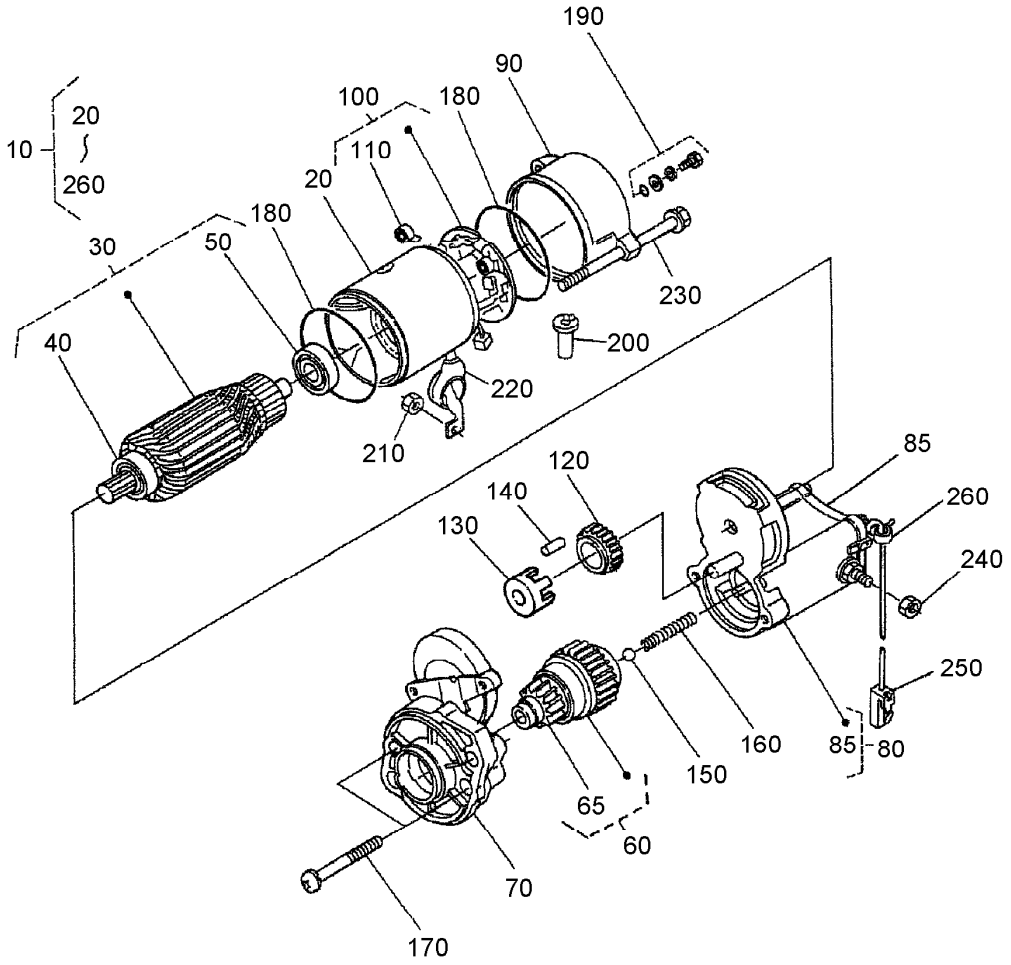
Ref.	Part Number	Qty.	Description
10	98-7693	1	Alternator ASM
20	98-7707	1	Pulley-Alternator
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	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	107-9088	1	Regulator ASM



Starter Assembly

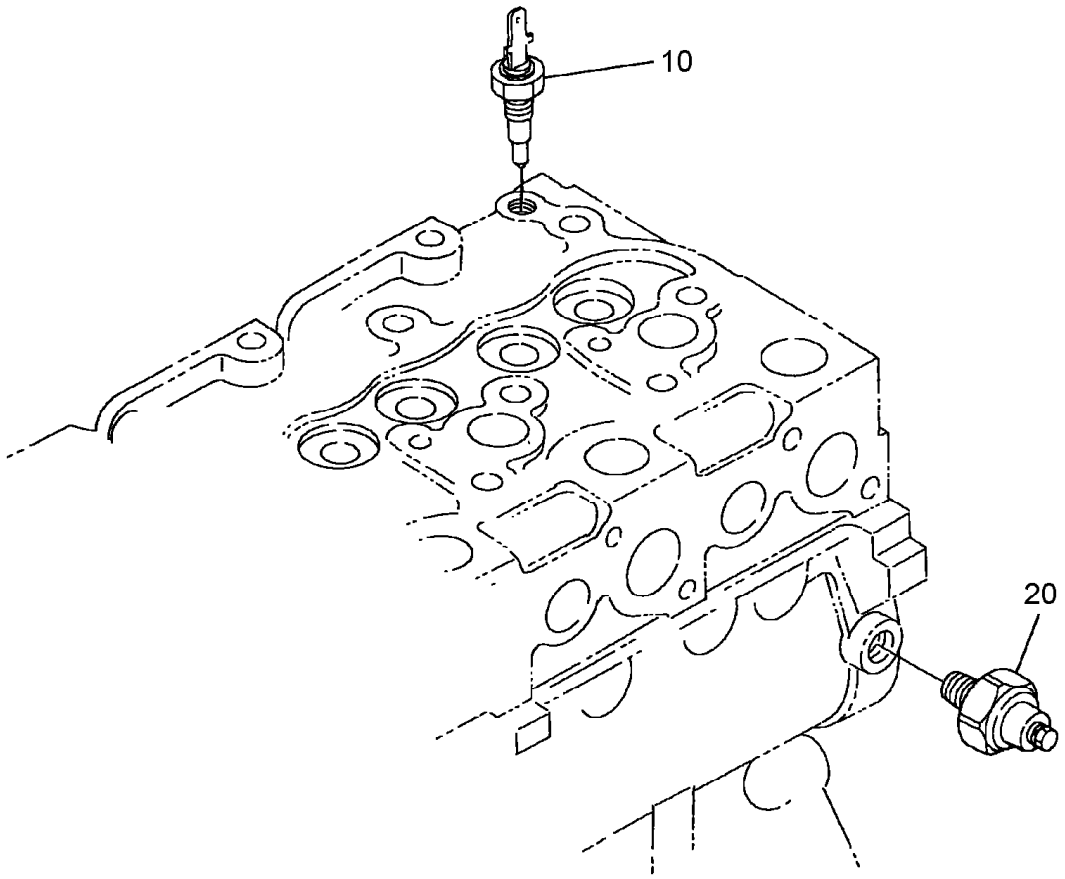
Ref.	*Part Number*	*Qty.*	*Description*
10	100-9237	1	Starter ASM
20	98-7735	1	Stud
30	98-7736	1	Bolt
40	98-7737	1	Nut
50	98-7738	1	Washer-Spring
60	98-7739	1	Nut
70	105-2893	1	Washer-Spring



Starter (Component Part) Assembly

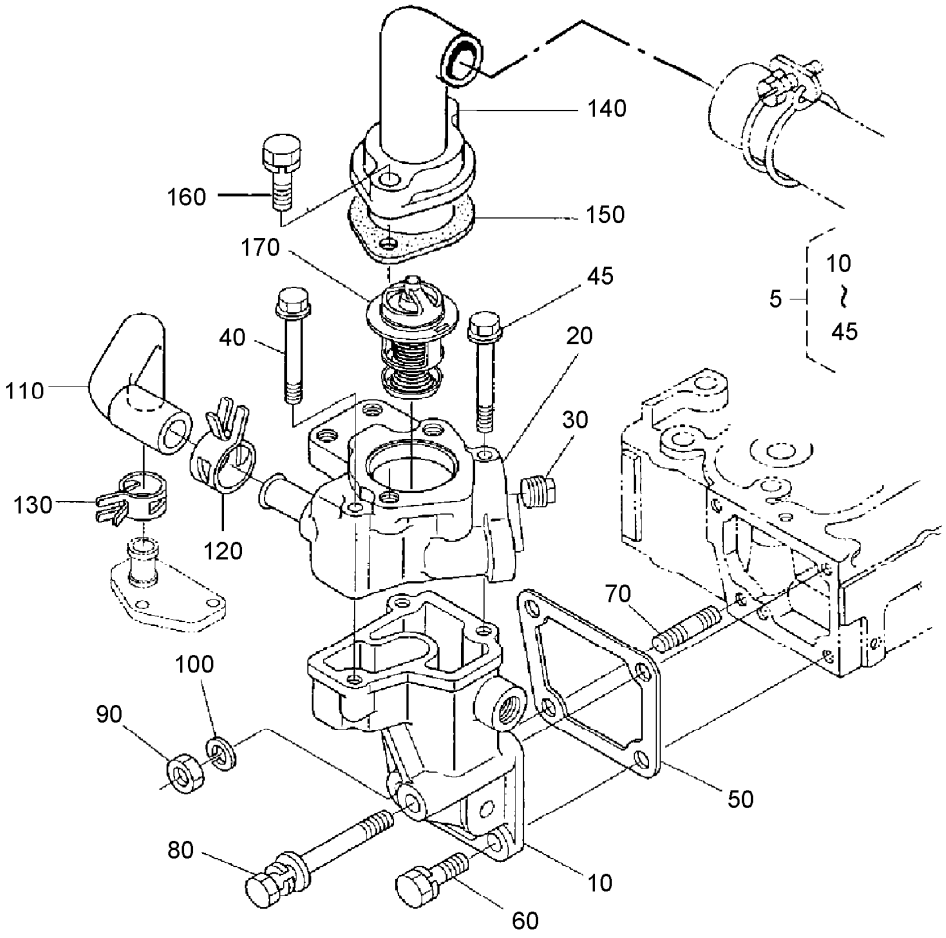
Ref.	Part Number	Qty.	Description
10	100-9237	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	98-7745	1	Clutch-Running, Over
65	105-2887	1	Pinion-Bevel
70	98-7746	1	Frame-End, Drive
80	100-9239	1	Magentic Switch ASM
85	105-2886	1	Cover ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear

Ref.	Part Number	Qty.	Description
130	98-7752	1	Retainer
140	98-7753	5	Roller
150	98-7755	1	Ball
160	98-7754	1	Spring
170	98-7756	2	Bolt
180	98-7757	2	O-Ring
190	98-7758	2	Bolt ASM
200	98-7759	1	Pipe-Drain
210	99-8371	1	Nut-Hex
220	99-8375	1	Cover
230	100-9240	2	Bolt
240	99-8376	1	Nut-Hex
250	98-9711	1	Cord-Solenoid, Stop
260	98-9712	1	Band-Cover



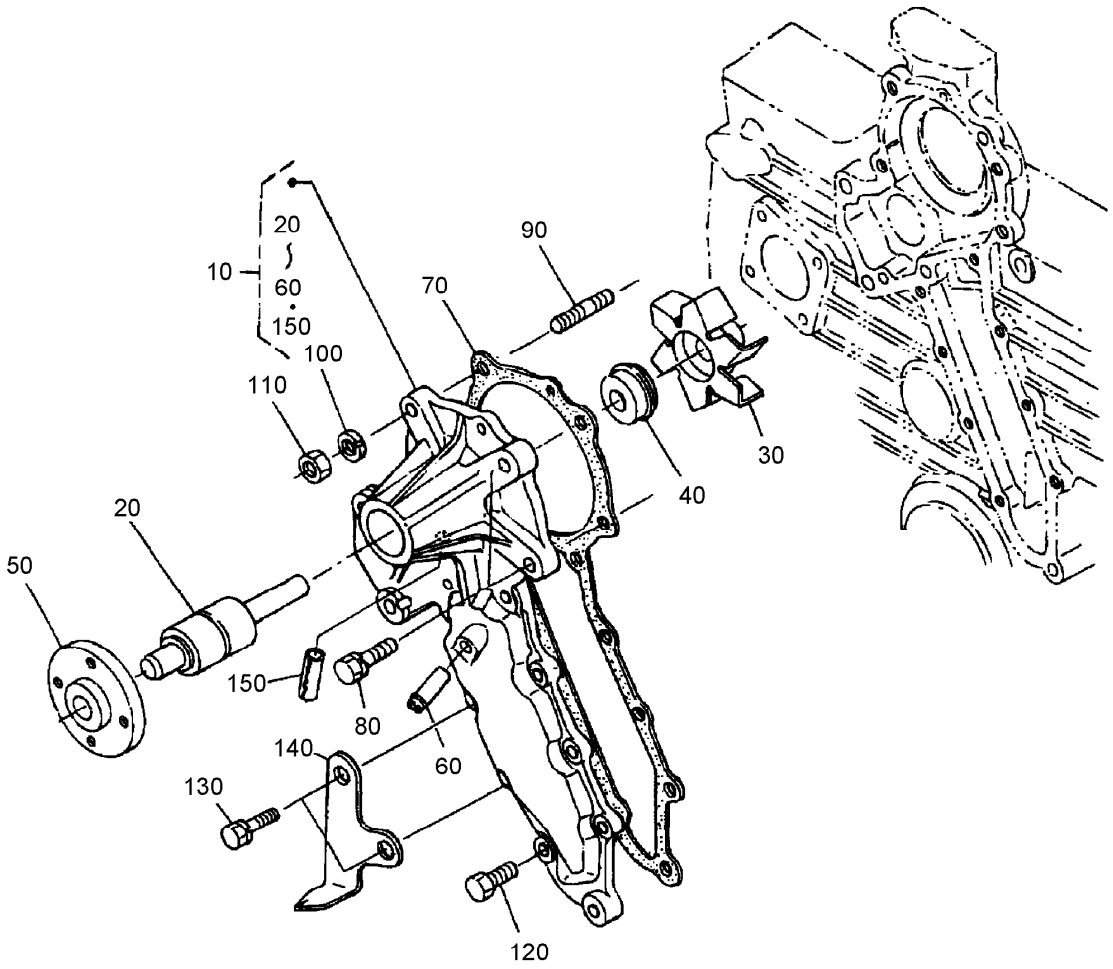
Oil Switch / Thermometer and Plug Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	99-3582	1	Thermoswitch
20	98-7764	1	Switch-Oil



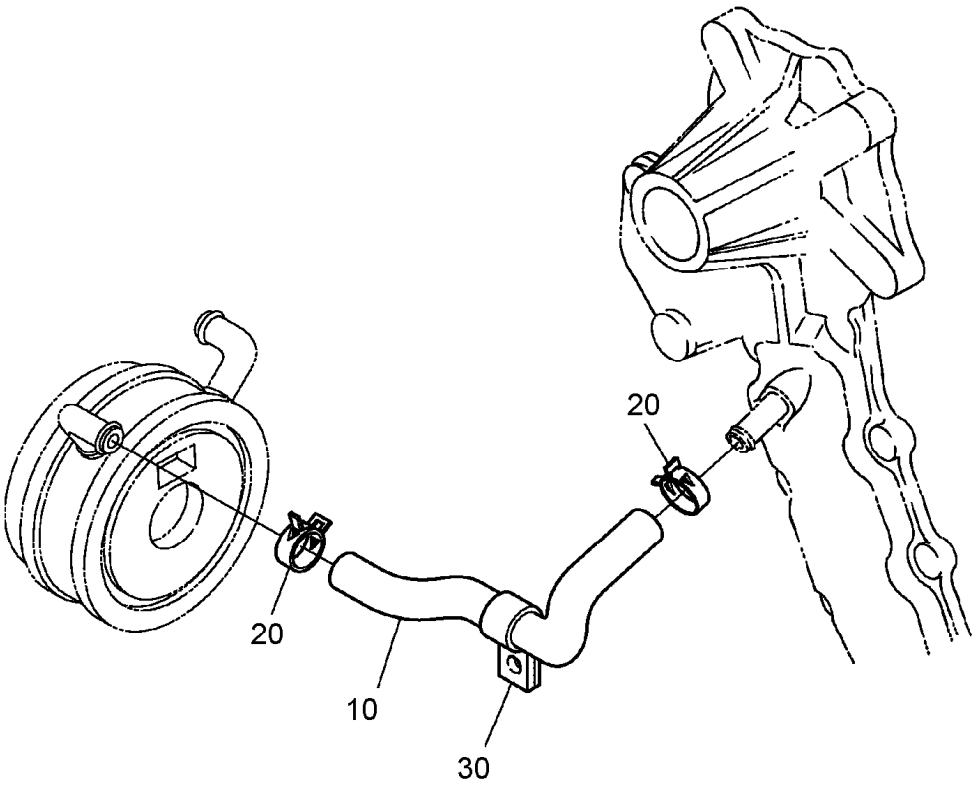
Water Flange and Thermostat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
5	105-4578	1	Water Flange ASM
10	107-0143	1	Flange-Water
20	107-0144	1	Flange-Water
30	105-2874	2	Plug
40	105-2875	3	Bolt-Flange
45	107-0117	1	Bolt-Flange
50	105-2876	1	Gasket-Flange, Water
60	98-7610	2	Bolt
70	100-1558	1	Stud
80	107-0115	1	Bolt
90	98-7534	1	Nut
100	105-2893	1	Washer-Spring
110	105-2878	1	Pipe-Return, Water
120	98-9714	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



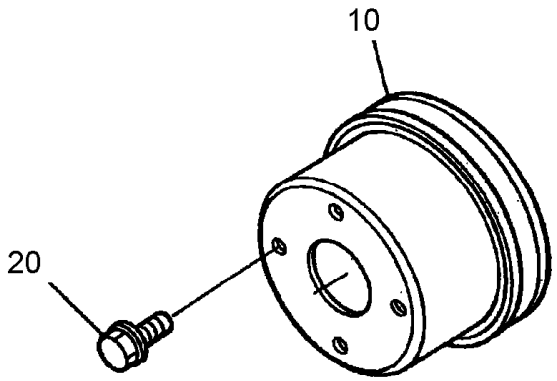
Water Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-0129	1	Water Pump ASM
20	98-7780	1	Bearing-Ball
30	107-0130	1	Impeller-Pump, Water
40	105-2882	1	Mechanical Seal ASM
50	108-7089	1	Flange-Shaft, Water Pump
60	98-9580	1	Pipe-Return, Water
70	98-7784	1	Gasket-Pump, Water
80	98-7439	2	Bolt
90	108-7090	2	Stud
100	105-2893	2	Washer-Spring
110	98-7534	2	Nut
120	98-7605	6	Bolt
130	98-7568	2	Bolt
140	100-9246	1	Indicator-Timing
150	107-0131	1	Pin-Spring



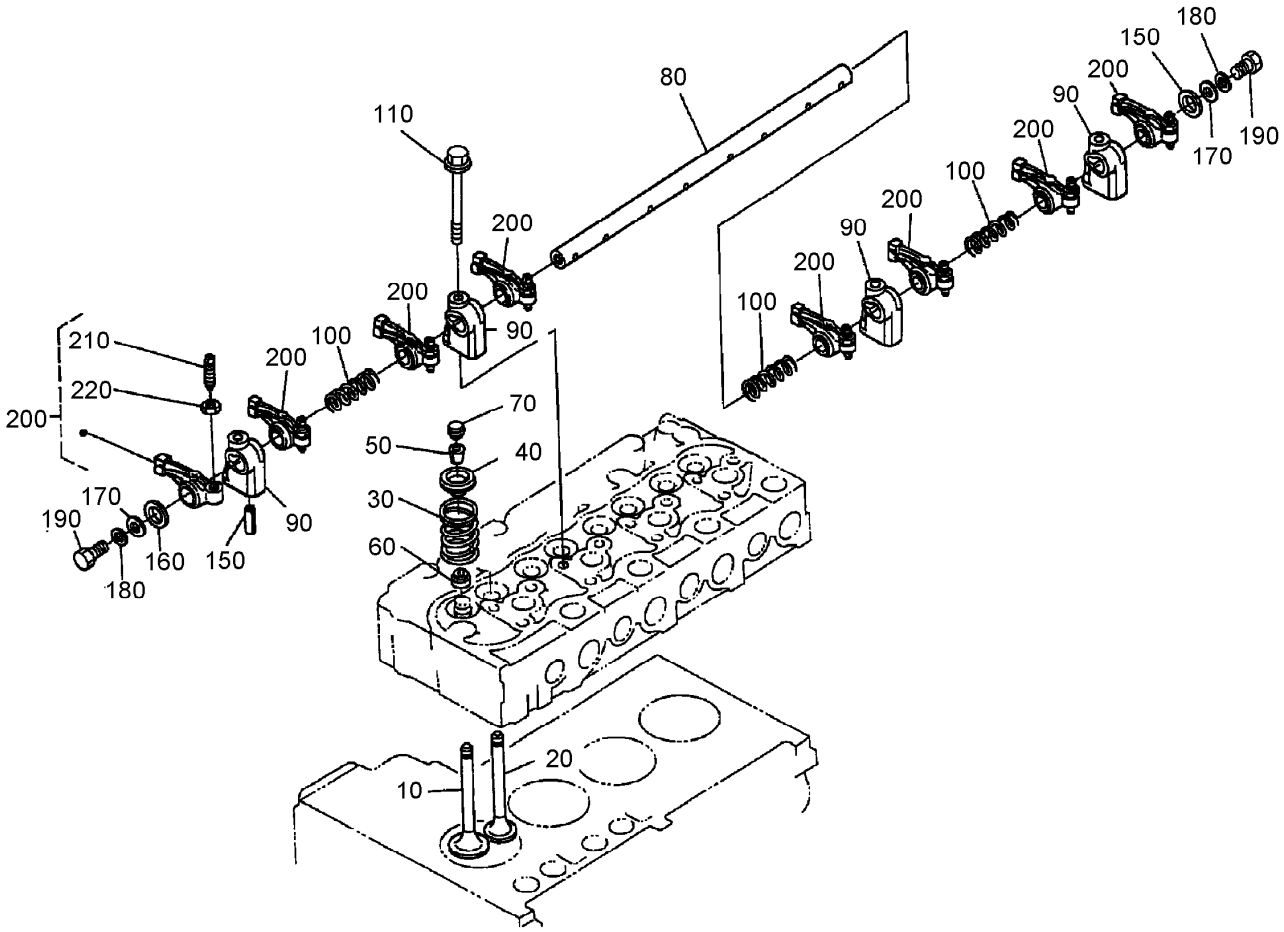
Water Pipe Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-0124	1	Pipe-Cooler, Oil
20	98-9579	2	Band-Pipe
30	107-0123	1	Clamp-Cord



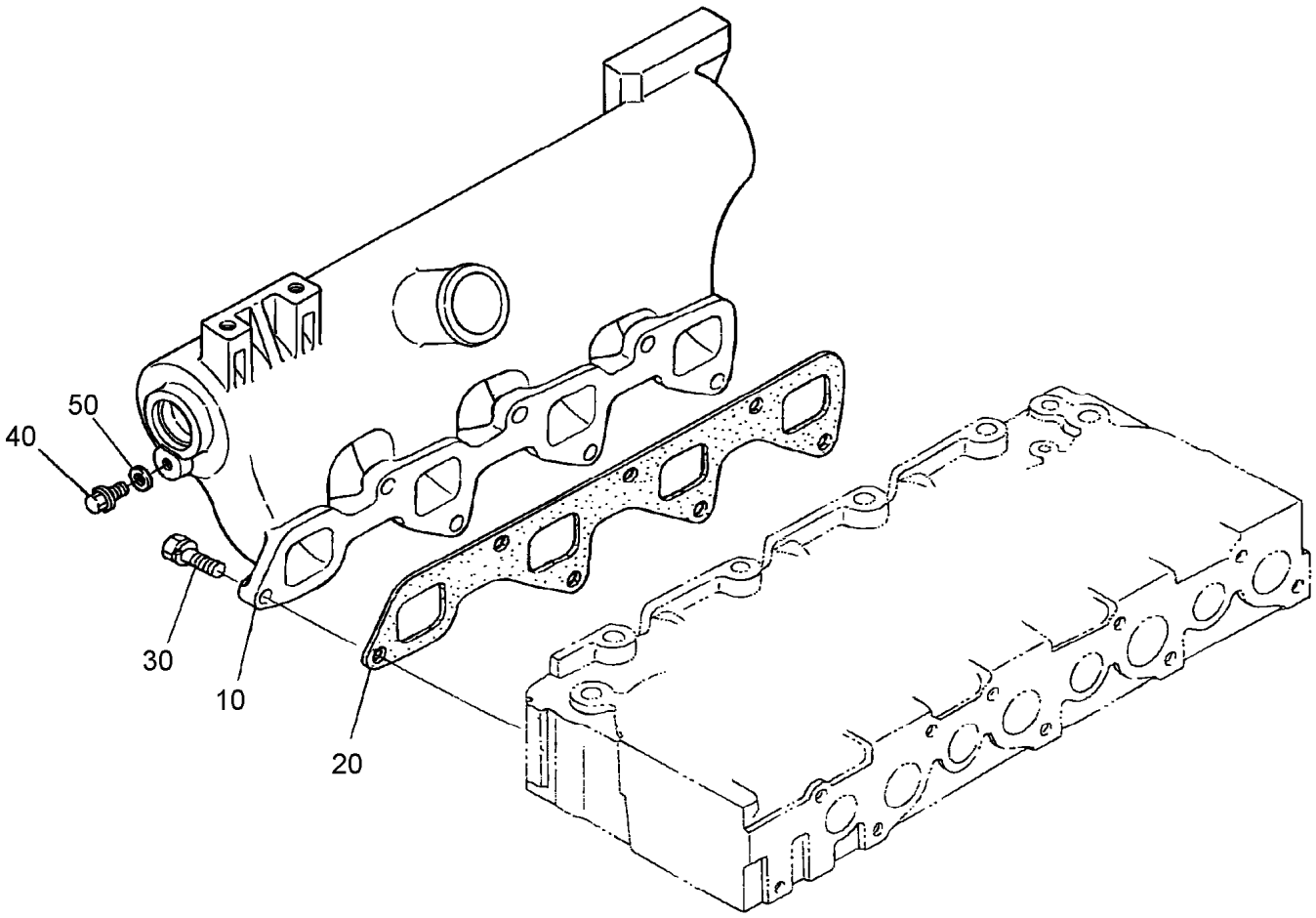
Fan Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7702	1	Pulley-Fan
20	107-4317	4	Bolt-Flange



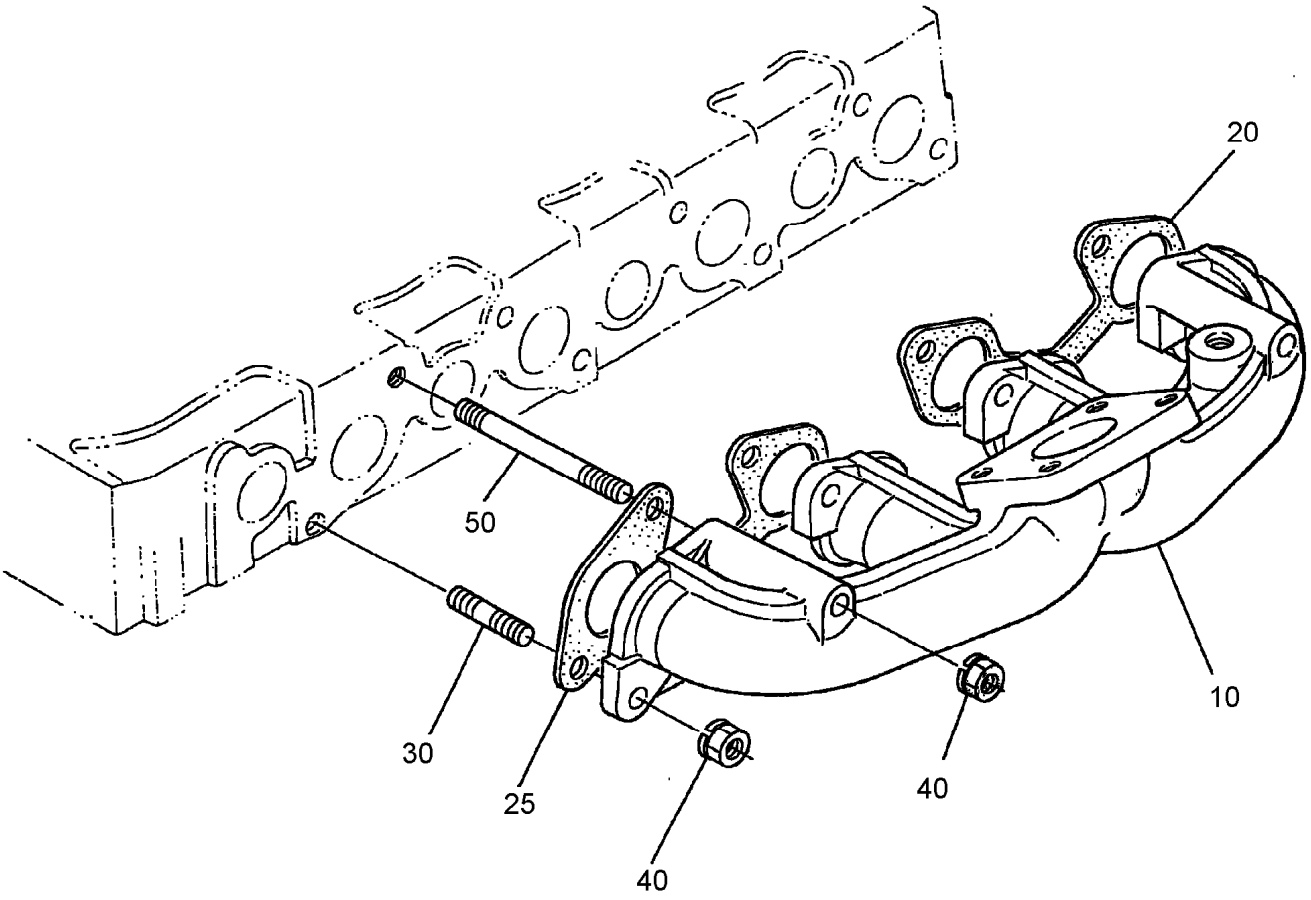
Valve and Rocker Arm Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7791	4	Valve-Inlet
20	100-9281	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
150	98-7805	1	Pin-Spring
160	98-7806	2	Washer
170	98-7660	2	Washer-Plain
180	105-2893	4	Washer-Spring
190	98-7884	2	Bolt
200	98-7809	8	Rocker Arm ASM
210	98-7810	8	Screw-Adjusting
220	98-7811	8	Nut



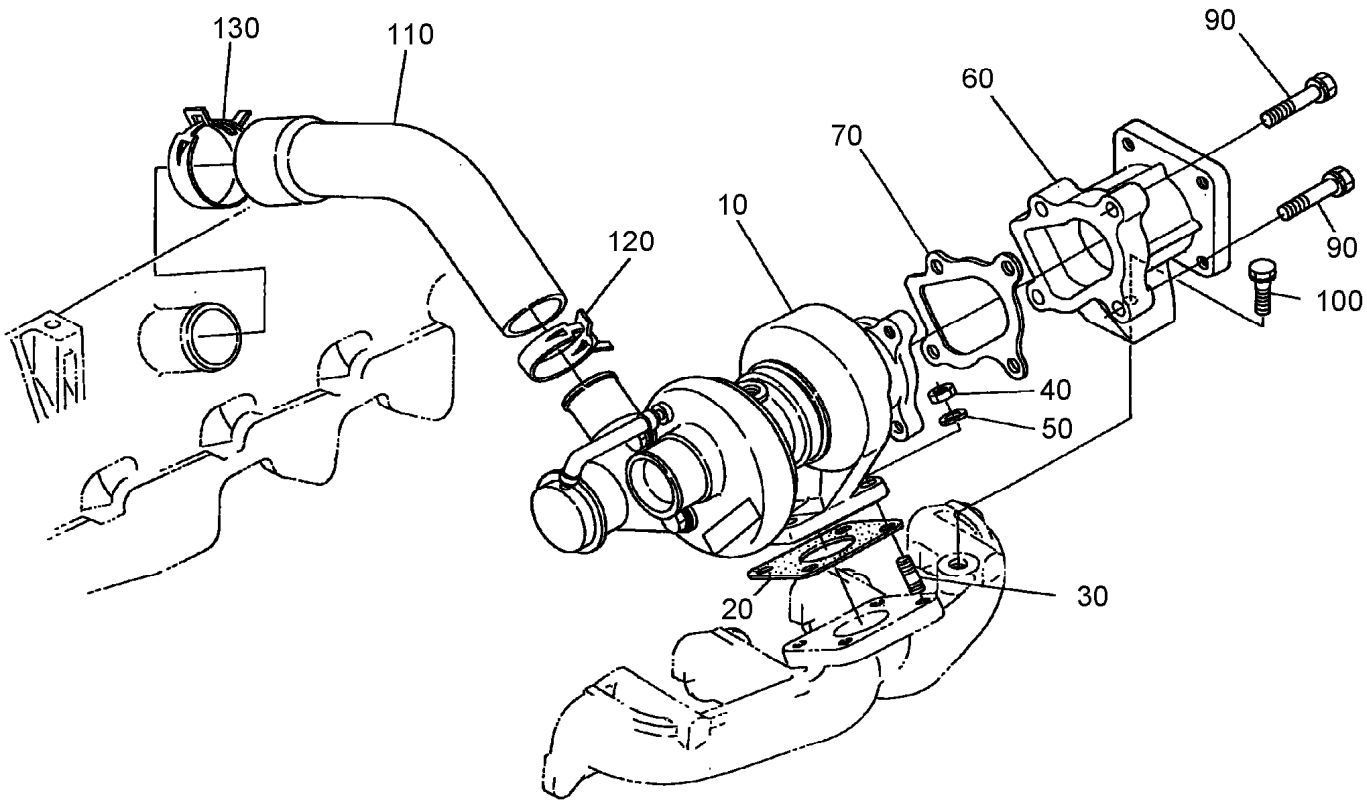
Inlet Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9283	1	Inlet-Manifold
20	100-9284	1	Gasket-Manifold, Intake
30	98-7610	7	Bolt
40	107-4317	1	Bolt-Flange
50	98-7654	1	Gasket



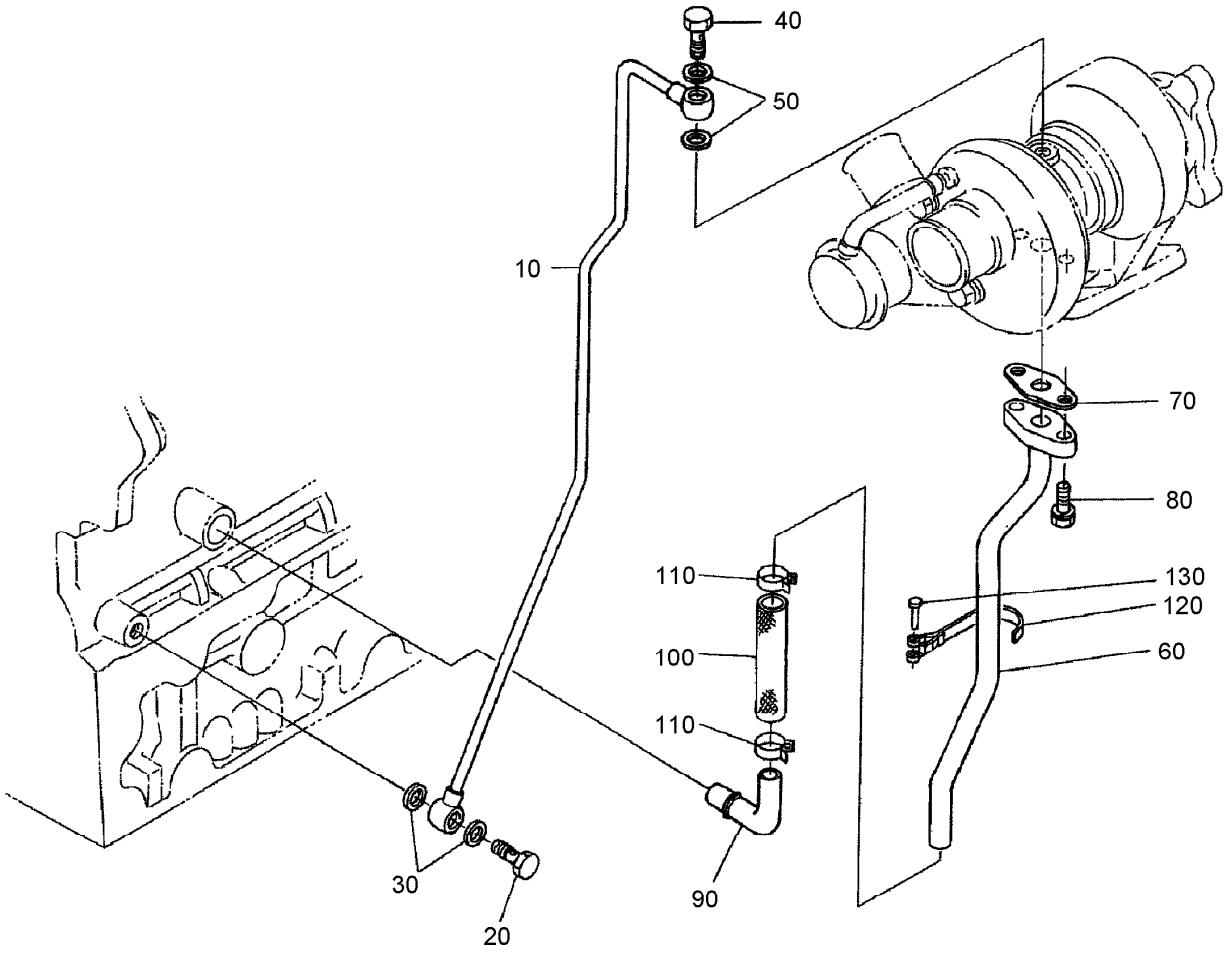
Exhaust Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-7092	1	Manifold-Exhaust
20	98-7802	1	Gasket
25	98-7803	1	Gasket
30	100-1558	6	Stud
40	100-9288	8	Nut
50	100-9289	2	Stud



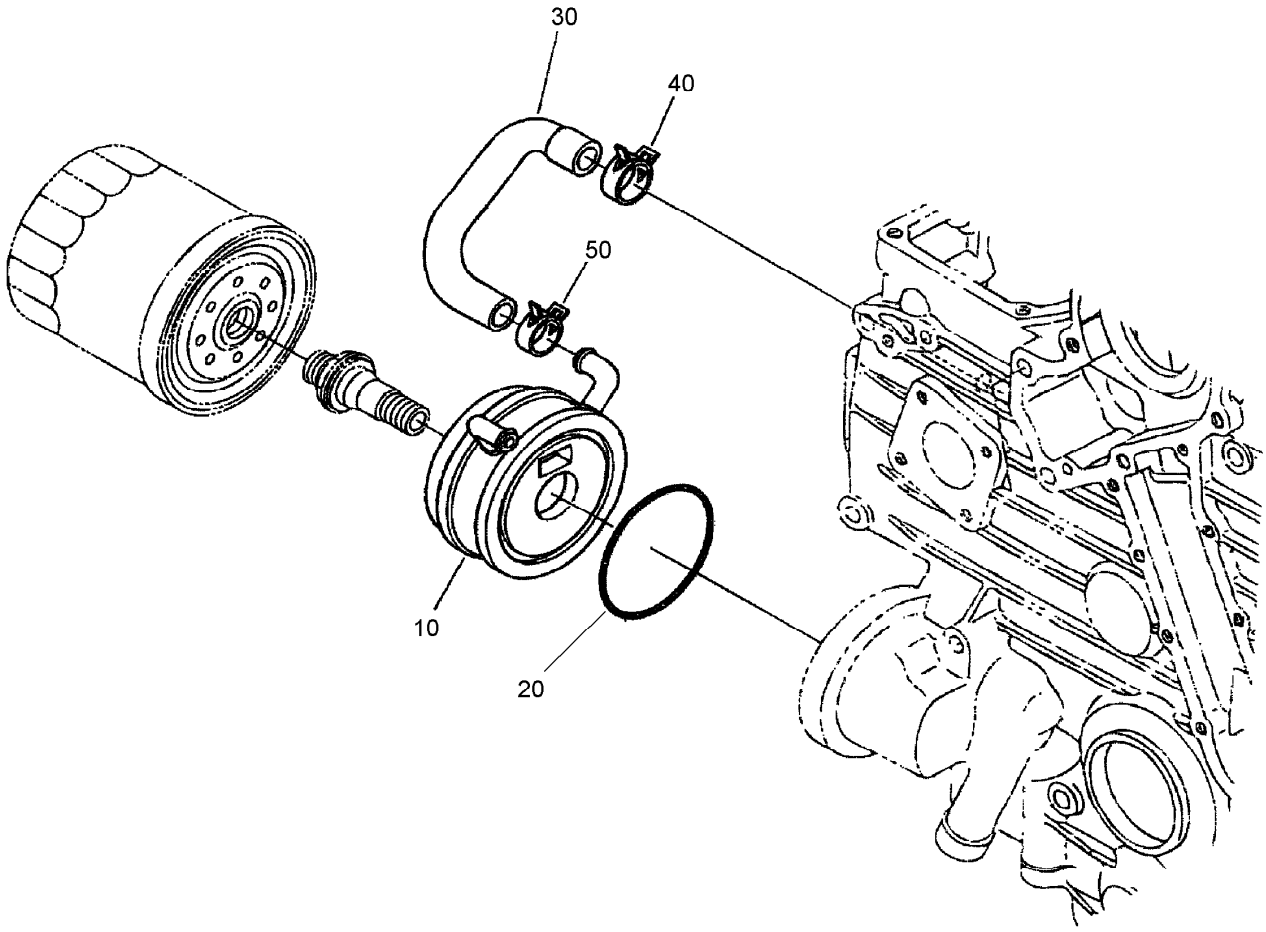
Turbo Charger Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-7093	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
90	98-7697	4	Bolt
100	100-9230	1	Bolt
110	100-9318	1	Hose-Inlet
120	100-9319	1	Band-Pipe
130	99-8322	1	Band-Pipe



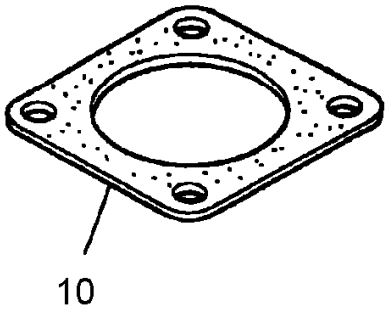
Oil Pipe (Turbo Charger) Assembly

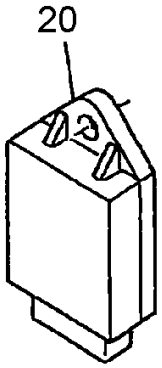
Ref.	*Part Number*	*Qty.*	*Description*
10	107-0127	1	Pipe-Oil, Complete
20	100-9321	1	Bolt-Joint, Eye
30	98-7428	2	Gasket
40	98-9418	1	Bolt-Joint, Eye
50	99-8346	2	Gasket
60	107-0128	1	Pipe-Oil, Complete
70	98-9435	1	Gasket-Oil Return, Turbo
80	98-7605	2	Bolt
90	100-9323	1	Pipe-Oil
100	108-7095	1	Tube-Oil
110	98-9714	2	Clamp-Hose
120	108-7096	1	Clamp-Pipe
130	98-9591	1	Pin-Band



Oil Cooler Assembly

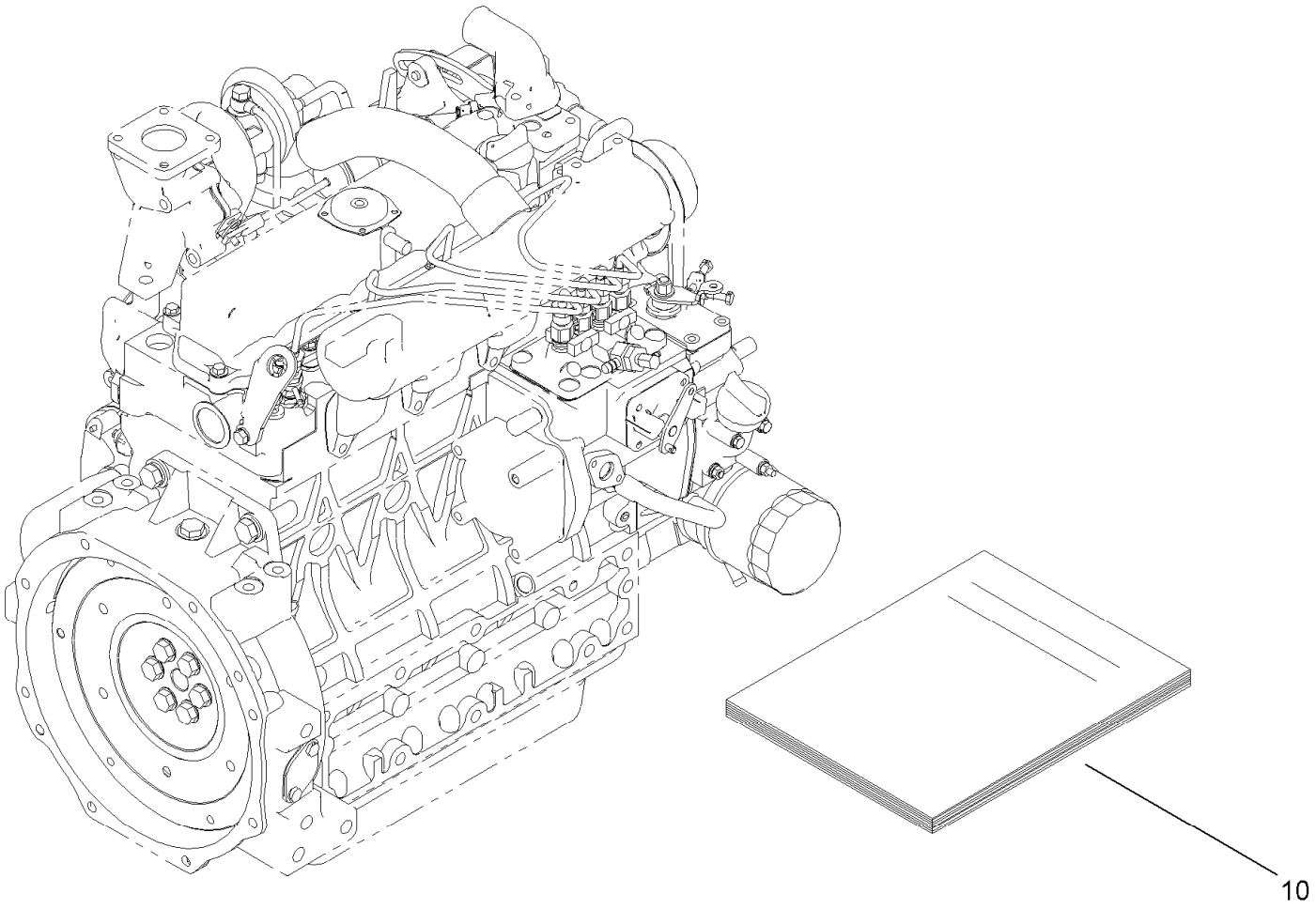
Ref.	*Part Number*	*Qty.*	*Description*
10	107-0125	1	Oil Cooler ASM
20	110-6181	1	O-Ring
30	107-0126	1	Hose-Cooler, Oil
40	105-2879	1	Clamp-Hose
50	98-9579	1	Band-Pipe





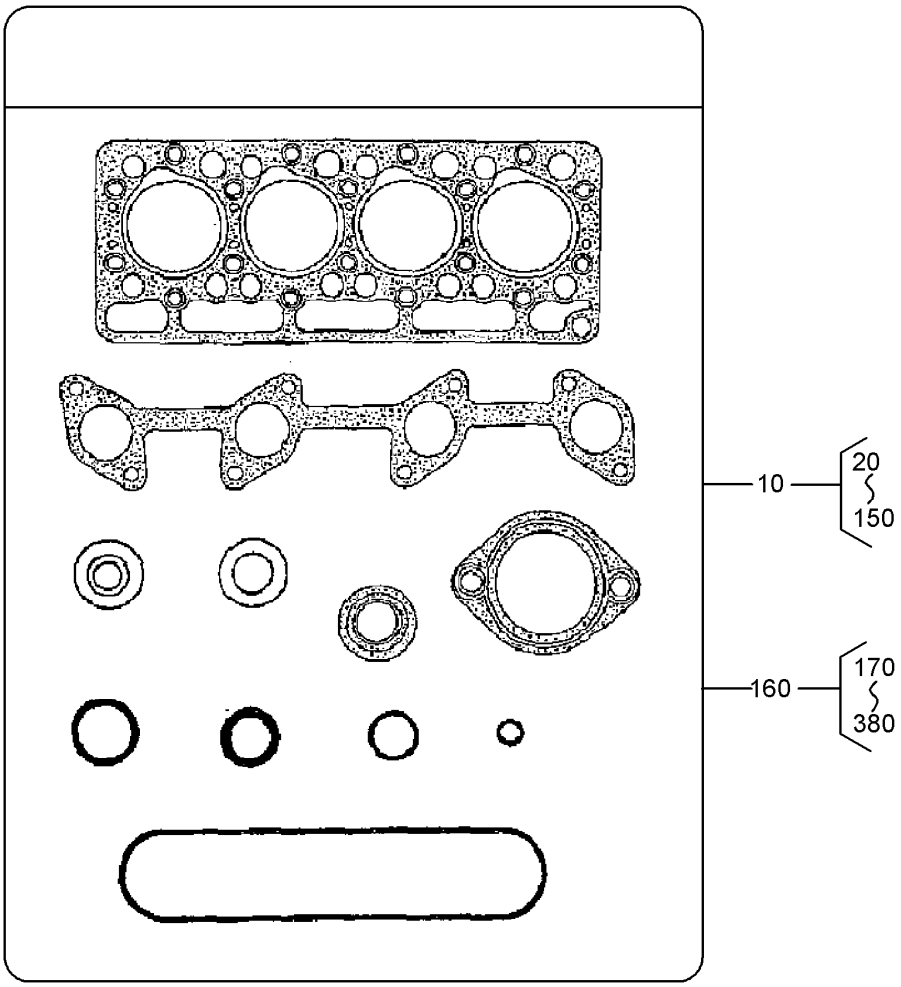
Muffler Gasket and Glow Controller

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9333	1	Gasket-Muffler
20	98-7611	1	Controller-Glow



Engine Operator Manual

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9335	1	Manual-Instruction



Gasket Kit

Ref.	*Part Number*	*Qty.*	*Description*
10	100-9337	1	Upper Gasket Kit
160	110-0025	1	Lower Gasket Kit

Attachments and Accessories

For 30868 Groundsmaster 4700-D

Product Name	Model/Part
Blade-Atomic	107-0235-03
Blade-Combo	108-9026-03
Mechanical Seat Suspension Kit	30312
Pneumatic Seat Suspension Kit	30313
Seat Suspension Kit	30395
Standard Seat Kit	30398
Arm Rest Kit	30707
Flow Divider Kit	30830
27in Rotary Cutting Unit	30834
Leaf Mulching Kit	30836

Notes:

Notes:



Count on it.