



Count on it.

Form No. 3448-375 Rev A

Parts Catalog

Groundsmaster® 3200 2-Wheel Drive Traction Unit

Model No. 31900—Serial No. 409600000 and Up



Ordering Replacement Parts

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

Understanding Reference Numbers

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

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

Service Assembly Reference Numbers

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

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

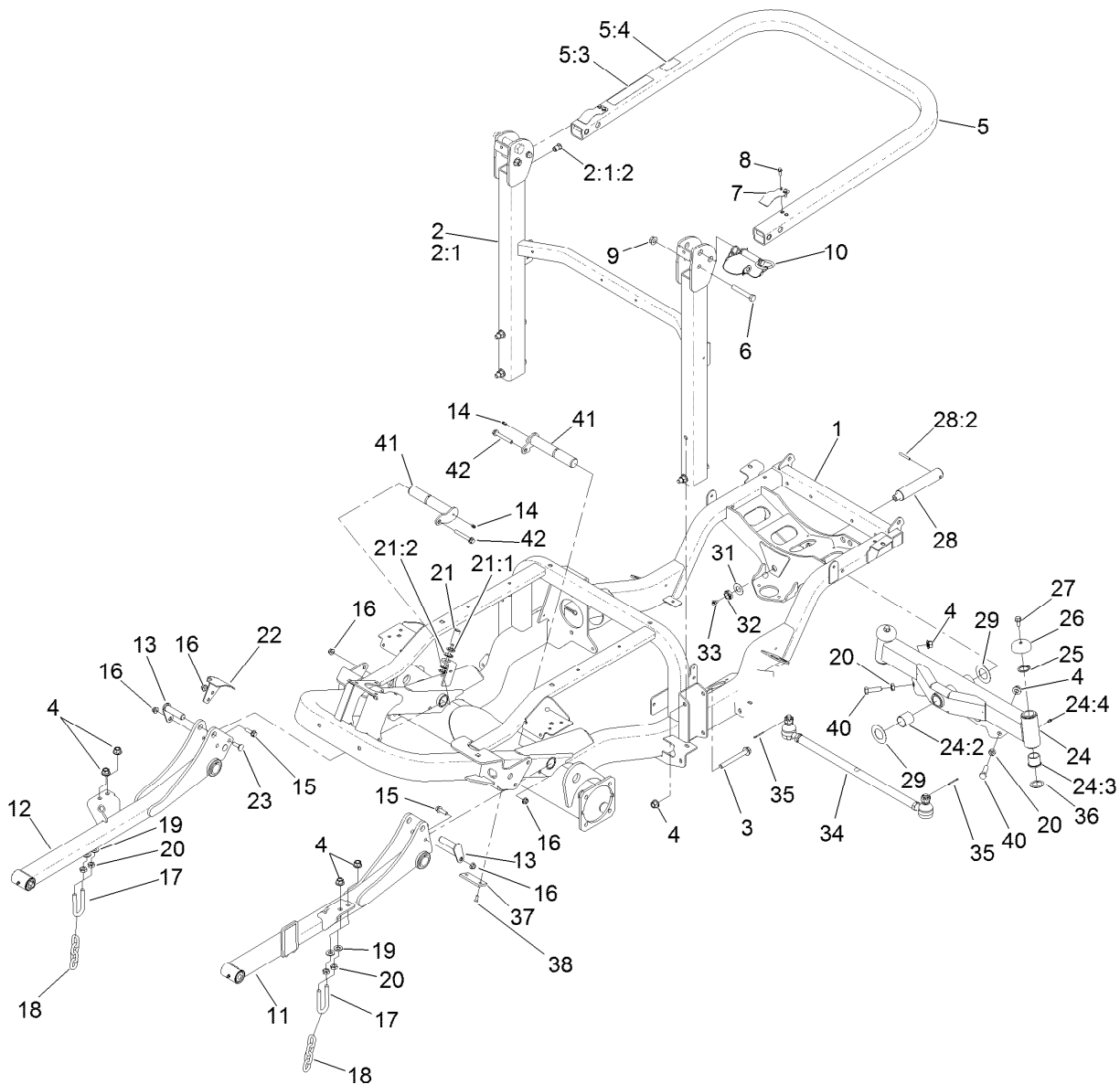
Reference Numbers Indicating Quantity

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

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

Contents

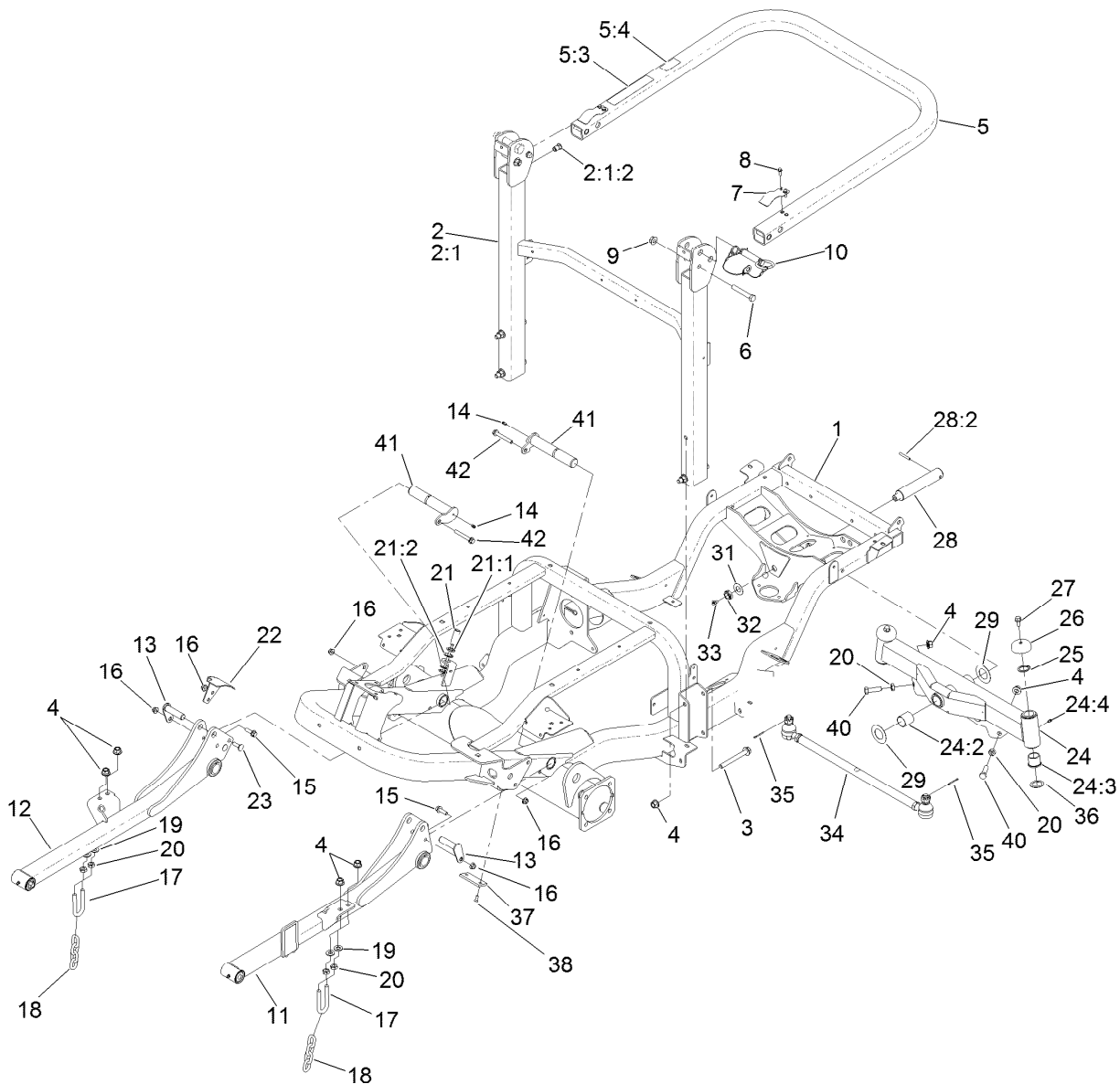
Frame and Roll-Over Protection System Assembly	4
LH Lift Arm Assembly No. 138-7419SP	6
RH Lift Arm Assembly No. 138-7429SP	7
Tie Rod Assembly No. 133-6462	8
Bumper and Weight Assembly	9
Front Axle and Parking Brake Assembly	10
Left Hand Brake Assembly No. 120-0235	12
Right Hand Brake Assembly No. 120-0233	13
Hydraulic Drive Assembly	14
Hydraulic Motor Assembly No. 137-2459	15
Hydraulic Motor Assembly No. 137-2479	16
Steering/Lift Manifold No. 138-4488	17
Engine, Air Cleaner and Exhaust Assembly	19
Air Cleaner Assembly No. 93-2190	21
Radiator and Cooler Assembly	22
Fuel and Hydraulic Tank Assembly	23
Fuel Tank Assembly No. 138-0291	25
Hydraulic Tank Assembly No. 138-4418	26
Platform, Steering and Console Assembly	27
Steering Column Assembly No. 139-0857	28
Traction Pedal Assembly	30
Control Console Assembly	31
Hood Assembly	32
Hydraulic PTO Assembly	33
Variable Piston Pump Assembly No. 138-0305	34
Driveshaft Assembly No. 144-0521SP	36
Hydraulic Assembly	37
Steering Valve Assembly No. 114-8119	40
Gear Pump Assembly No. 138-0321	41
Traction Hydraulic Assembly	42
Electrical Assembly	43
Wire Harness Assembly No. 122-1657	44
Cylinder Block Assembly	46
Gear Housing Assembly	48
Mounting Flange and Oil Sump Assembly	50
Cylinder Head and Cover Assembly	52
Exhaust Manifold Assembly	54
Camshaft and Driving Gear Assembly	56
Crankshaft and Piston Assembly	58
Lubrication and Oil System Assembly	60
Cooling Water System Assembly	62
Fuel Injection Pump Assembly	64
Governor Assembly	66
Fuel Injection Valve Assembly	68
Fuel Pipe Assembly	70
Starter Motor Assembly	72
Generator Assembly	74
Accessory Assembly	76
Gasket Set	78
Attachments and Accessories	80



Frame and Roll-Over Protection System Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	133-6450SP	1	Frame ASM	15	119-4061	2	Screw-HHF
2	139-6254SP	1	ROPS ASM, Lower	16	104-8301	6	Nut-HF, NI
2:1		1	ROPS ASM, Lower ●	17	104-0108	2	U-Bolt
2:1:2	138-2760	4	Nut-Clinch, Hex	18	95-6231	2	Chain-HOC
3	117-3176	4	Screw-HHF	19	3256-26	4	Washer-Flat
4	99-5107	10	Nut-Lock	20	3218-5	6	Nut-Jam
5	138-7470	1	ROPS ASM, Upper	21	115-5300	1	Proximity Switch ASM
5:3	108-2073	1	Decal-Warning	21:1	117-3207	2	Nut-Hex
5:4	139-6244	1	Decal-ROPS Compliance	21:2	117-3208	2	Washer-Lock, Internal Tooth
6	325-13	2	Screw-HH	22	139-6170-0P	1	Bracket-Sensor Mount [primed]
7	110-5696	2	Spring-Leaf	23	3231-2	2	Bolt-CARR
8	32105-15	4	Screw-HWH	24	138-4588	1	Axle ASM
9	32128-23	2	Nut-HF	24:2	99-6964	2	Bushing-Axle
10	103-4553	2	Pin-Fold, ROPS	24:3	104-0015	4	Bushing-Flange
11	138-7419SP	1	LH Lift Arm ASM	24:4	302-5	2	Fitting-Grease
12	138-7429SP	1	RH Lift Arm ASM	25	32151-77	2	Ring-Retaining, External
13	138-7489	2	Pin (Machined)	26	69-8890	2	Cap-Spindle
14	302-5	2	Fitting-Grease				

● Not serviced separately

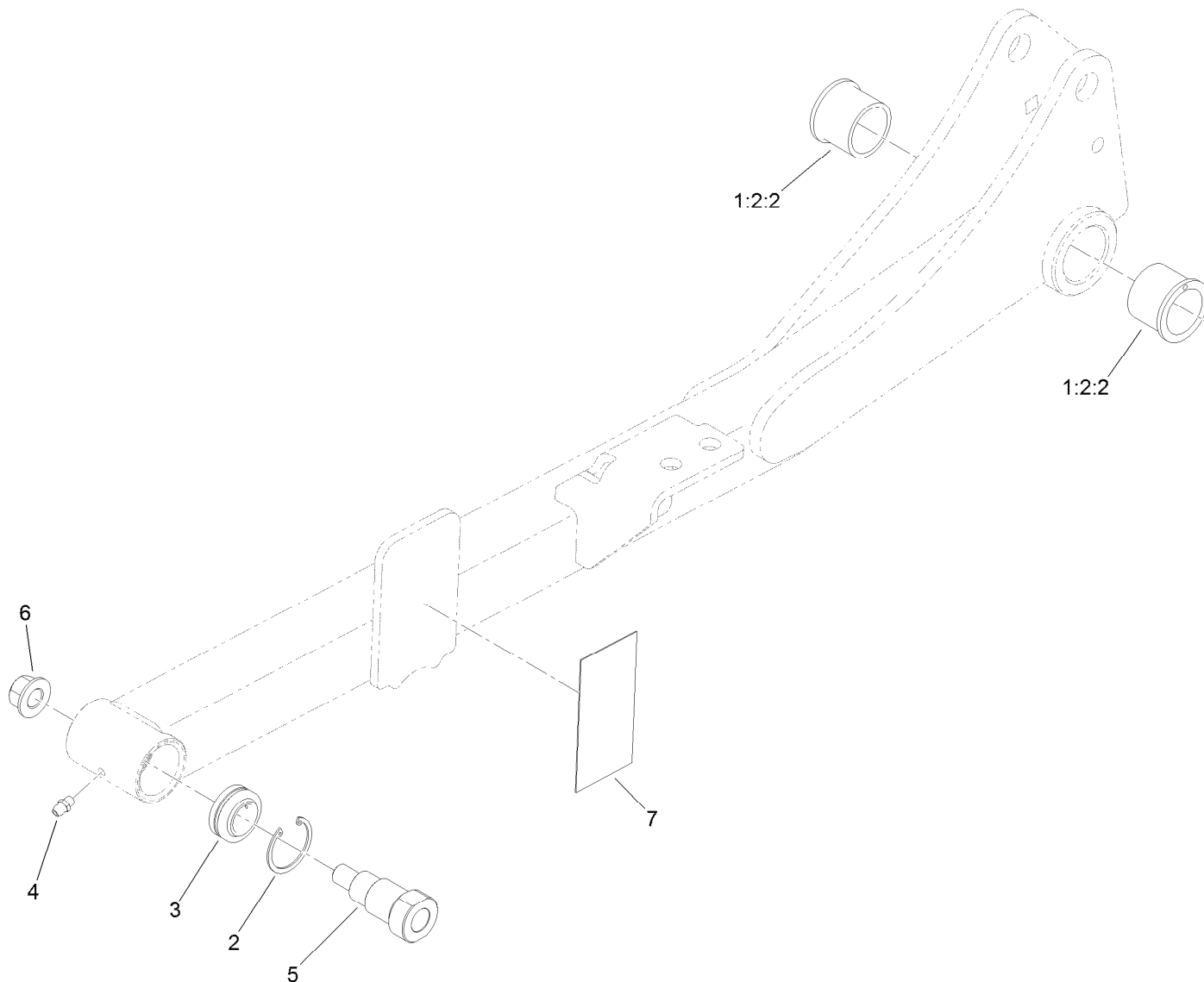


Frame and Roll-Over Protection System Assembly (continued)

Ref.	Part Number	Qty.	Description
27	3234-1	2	Screw-HHF
28	140-6101	1	Pin ASM-Axle Pivot
28:2	32121-32	1	Pin-Roll
29	99-8432	2	Washer-Thrust
31	71-4540	1	Washer-Thrust
32	3296-15	1	Nut-Lock, NI
33	302-33	1	Fitting-Grease
34	133-6462	1	Tie Rod ASM

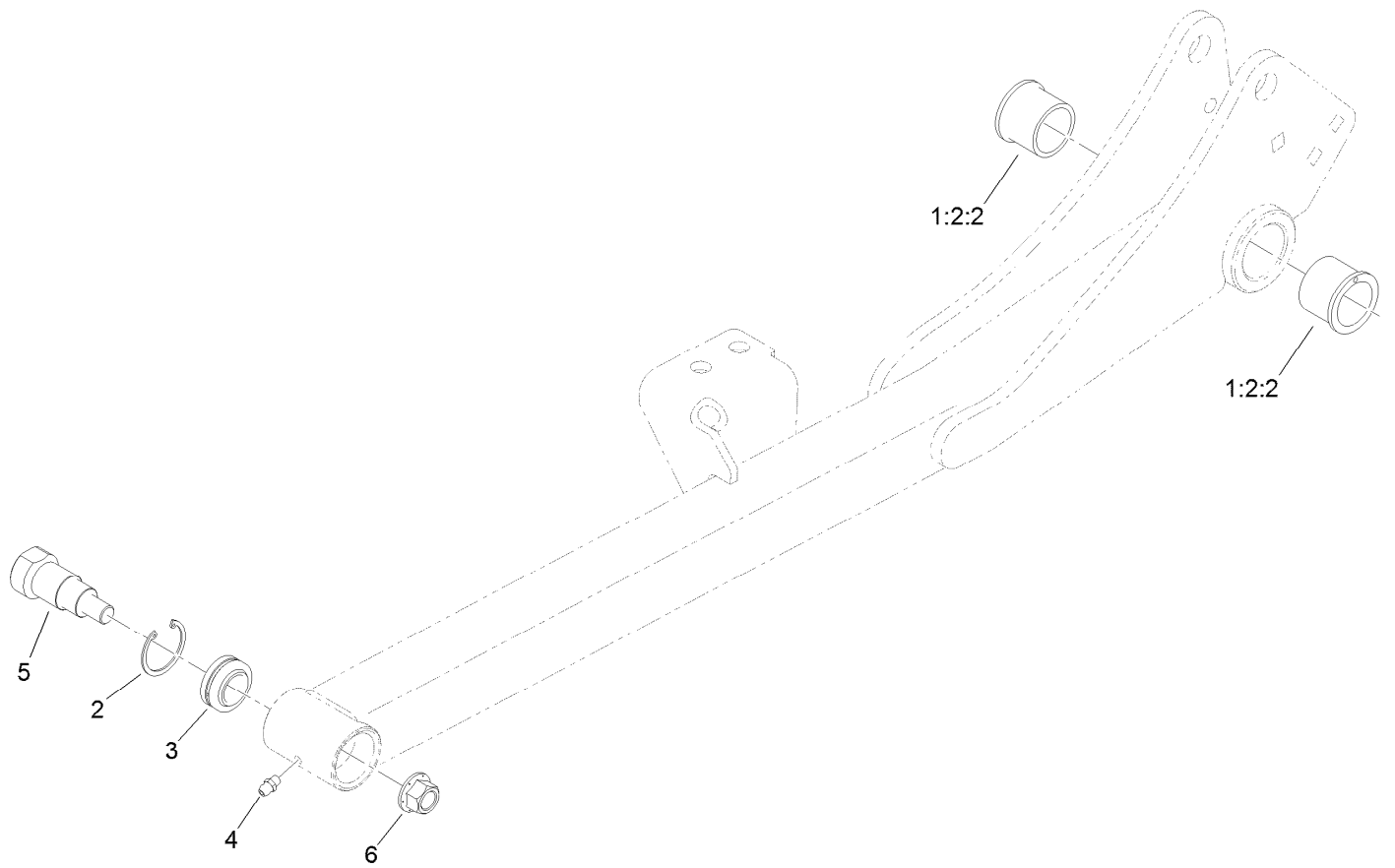
Ref.	Part Number	Qty.	Description
35	3272-12	2	Pin-Cotter
36	76-2980	2	Washer-Thrust
37	138-4452	2	Pad-Stop, Deck
38	3289-4	4	Screw-FH
40	325-7	2	Screw-HH
41	138-4593	2	Pin
42	133-9682	2	Screw-Hfh

● Not serviced separately



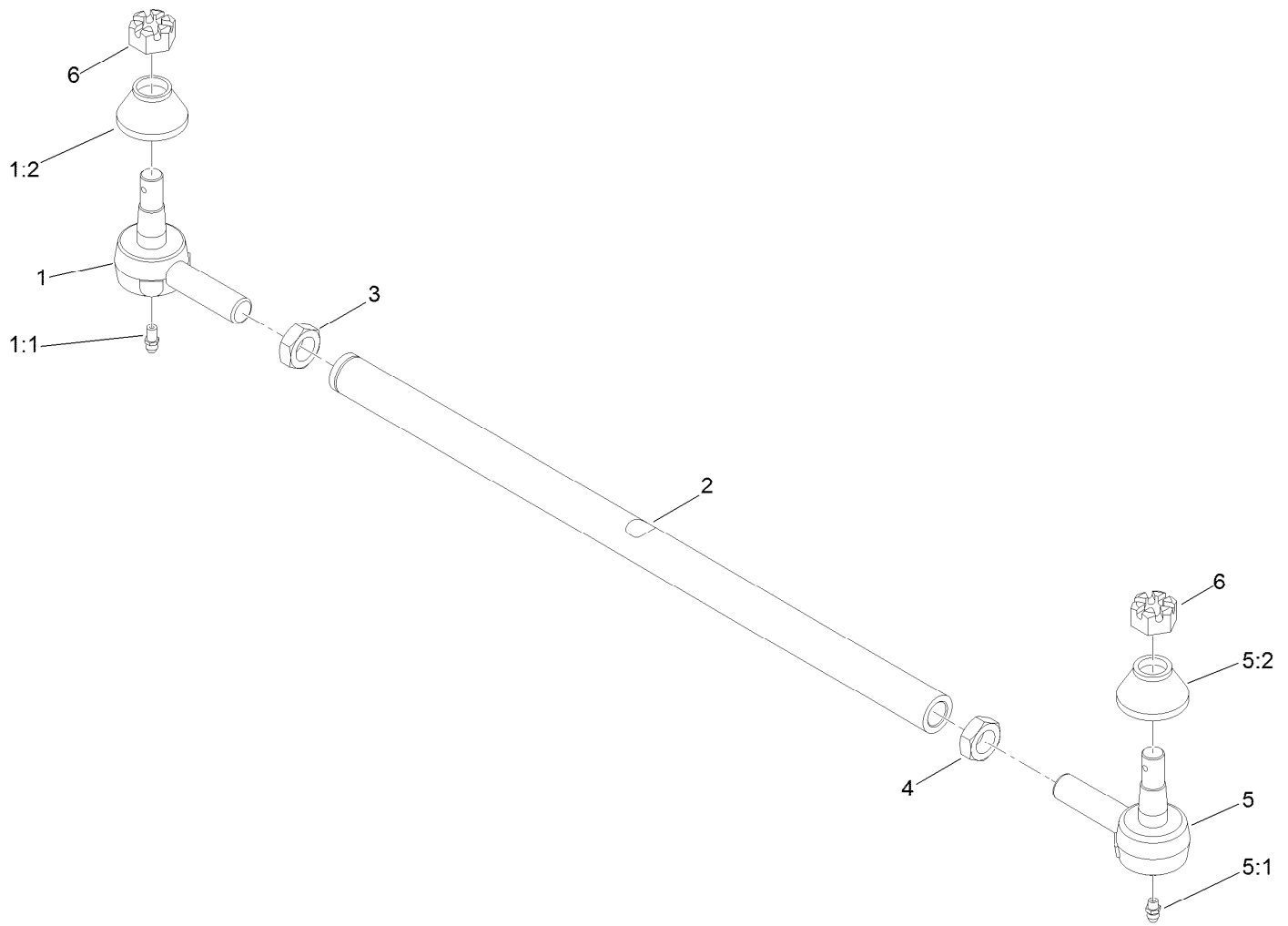
LH Lift Arm Assembly No. 138-7419SP

Ref.	Part Number	Qty.	Description
1:2:2	104-0015	2	Bushing-Flange
2	32151-34	1	Ring-Retaining
3	105-7441	1	Bearing-Spherical
4	302-5	1	Fitting-Grease
5	139-0910	1	Bolt-Shoulder
6	99-5107	1	Nut-Lock
7	139-0948	1	Pad-Ride, Pin



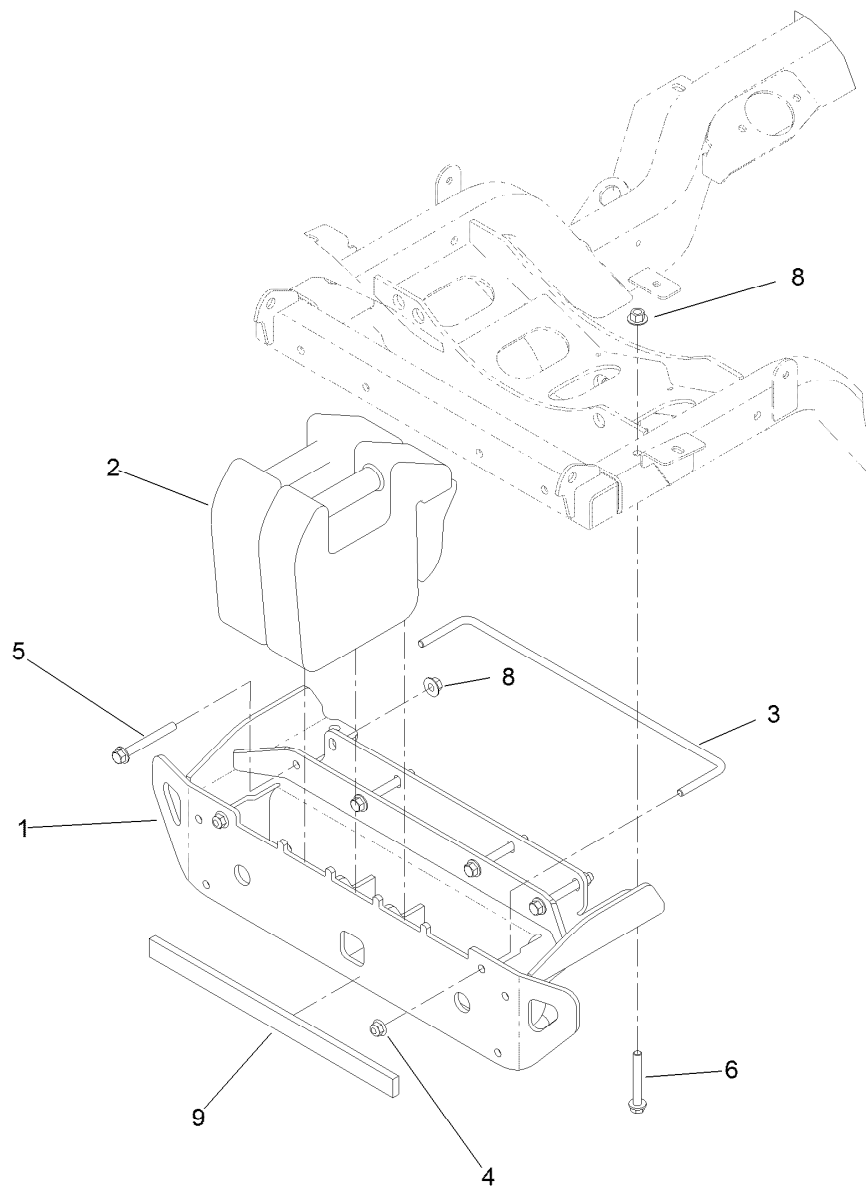
RH Lift Arm Assembly No. 138-7429SP

Ref.	Part Number	Qty.	Description
1:2:2	104-0015	2	Bushing-Flange
2	32151-34	1	Ring-Retaining
3	105-7441	1	Bearing-Spherical
4	302-5	1	Fitting-Grease
5	139-0910	1	Bolt-Shoulder
6	99-5107	1	Nut-Lock



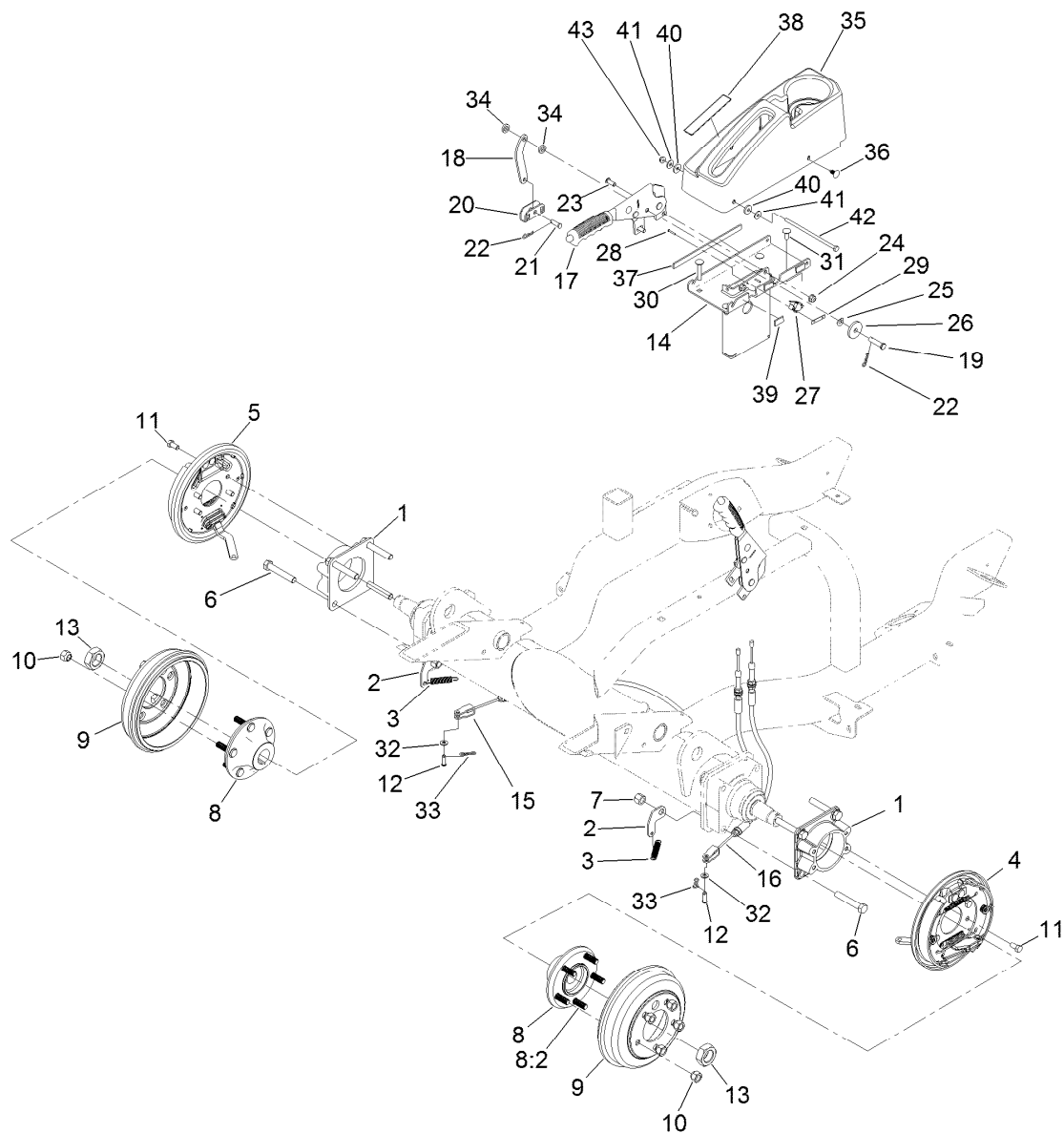
Tie Rod Assembly No. 133-6462

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	139-6199	1	Tie Rod End
1:1	302-5	1	Fitting-Grease
1:2	105-7835	1	Seal
2	133-6463	1	Tie-Rod
3	84-5300	1	Nut-Jam
4	110-5337	1	Nut-Jam
5	139-6200	1	Tie Rod End
5:1	302-5	1	Fitting-Grease
5:2	105-7835	1	Seal
6	140-6135	2	Nut-Hex, Slotted



Bumper and Weight Assembly

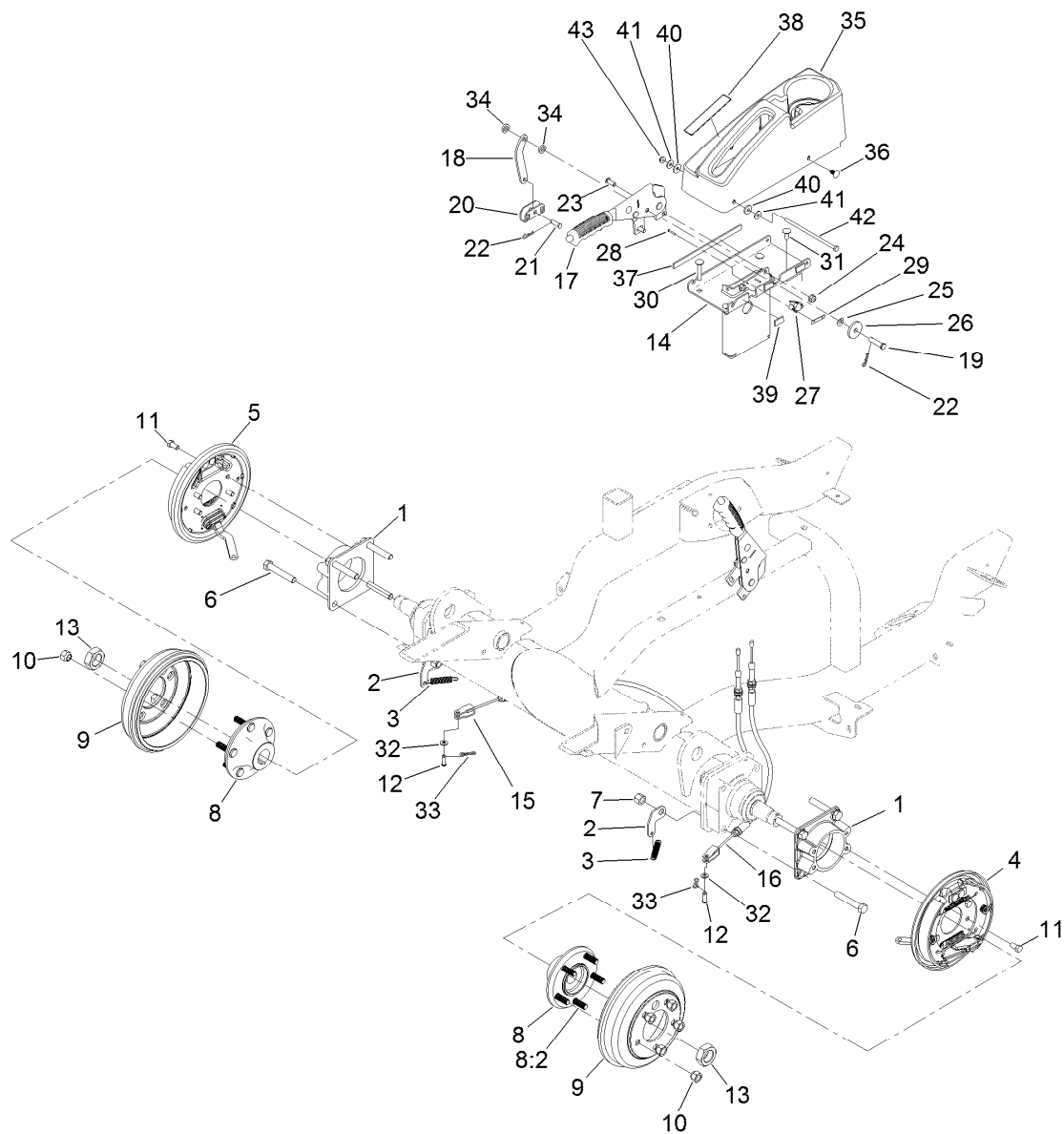
Ref.	Part Number	Qty.	Description
1	139-2328SP	1	Rear Bumper
2	114-4096	2	Weight
3	125-2667	1	Lock-Weight
4	104-8301	2	Nut-HF, NI
5	3234-41	4	Screw-HHF
6	133-9682	2	Screw-Hfh
8	32128-43	6	Nut-Flange
9	144-0553	1	Strip-Rubber



Front Axle and Parking Brake Assembly

Ref.	Part Number	Qty.	Description
1	120-6253-03	2	Adapter-Brake
2	138-4499	2	Clip-Spring
3	137-2591	2	Spring-Extension
4	120-0235	1	LH Brake ASM
5	120-0233	1	RH Brake ASM
6	325-12	8	Screw-HH
7	3296-23	8	Nut-Lock, NI
8	137-2470	2	Hub ASM
8:2	114-3918	5	Stud-Wheel
9	114-8864	2	Drum-Brake
10	242-50	10	Nut-Lug
11	323-4	8	Screw-HH
12	283-58	2	Pin-Clevis
13	107-9319	2	Nut-Hex
14	144-0517-0P	1	Parking Brake Mount [primed]
15	137-2640	1	Cable-Brake, Adjustable RH
16	137-2641	1	Cable-Brake, Adjustable LH
17	131-8320	1	Lever-Brake, Park
18	144-0516	1	Link-Park, Brake
19	283-10	1	Pin-Clevis

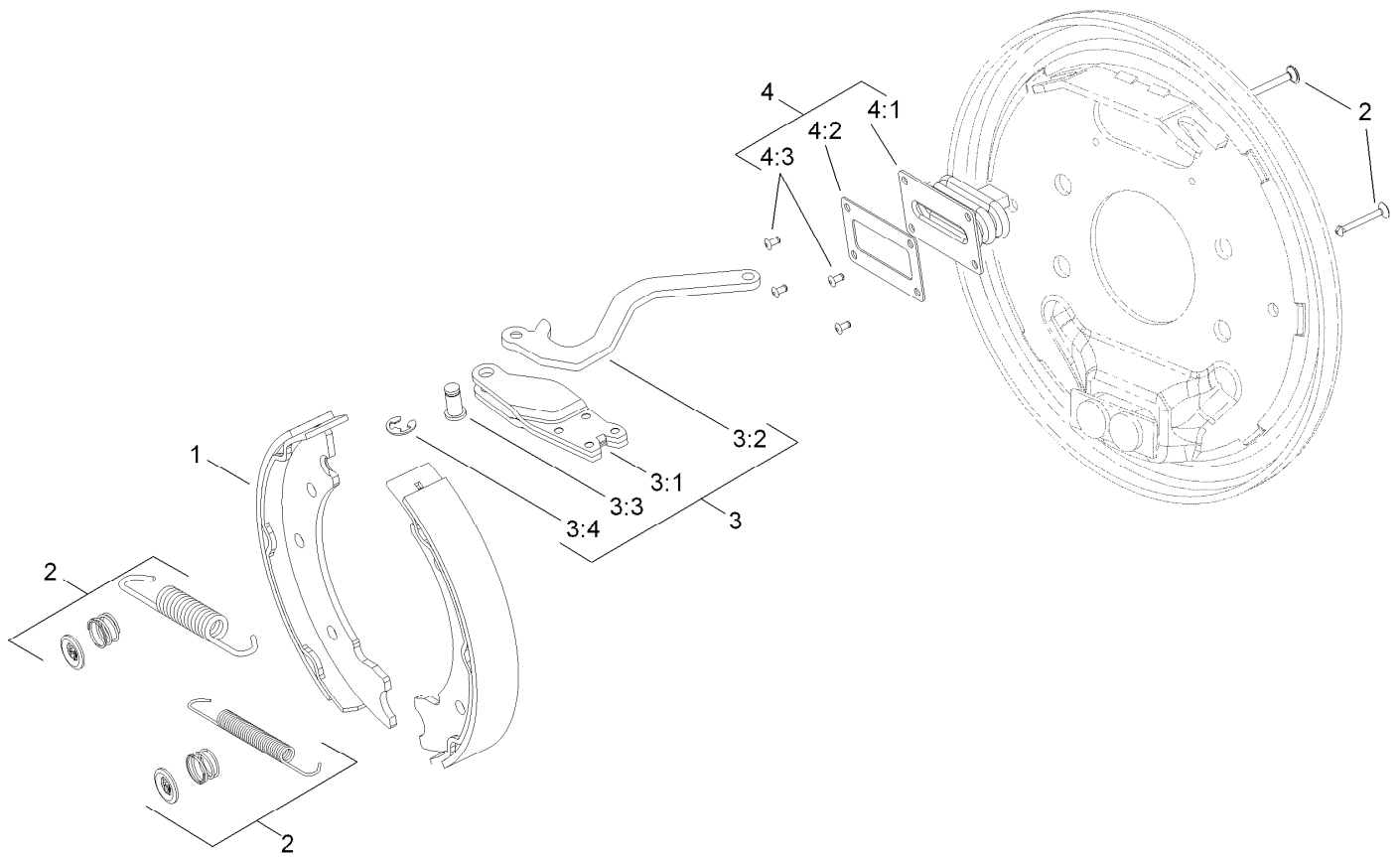
Ref.	Part Number	Qty.	Description
20	87-3480	1	Bracket-Equalizer, Cable
21	1-808280	1	Pin-Clevis
22	1-806003	2	Pin-Cotter
23	3274-55	2	Screw-HSBH
24	104-8300	6	Nut-HF, NI
25	121-4605	1	Washer-Spring
26	131-8496	1	Washer-Plain
27	108-6496	1	Switch (W/Boot)
28	95-3003	2	Screw-PPHTF
29	3290-354	1	Nut-Speed
30	116-0629	2	Screw-CARR
31	3230-23	2	Bolt-CARR
32	3256-74	2	Washer-Flat
33	119-1415	2	Pin-Cotter, Locking
34	3-3287	2	Spacer
35	138-7475	1	Cover-Brake, Parking
36	117-2382	2	Plug-Plastic
37	132-7282	1	Strip-Foam
38	139-6224	1	Decal-Parking Brake
39	115-5417	3	Strip-Foam
40	144-0499	2	Washer-Epdm



Front Axle and Parking Brake Assembly (continued)

Ref.	Part Number	Qty.	Description
41	3256-78	2	Washer-Flat

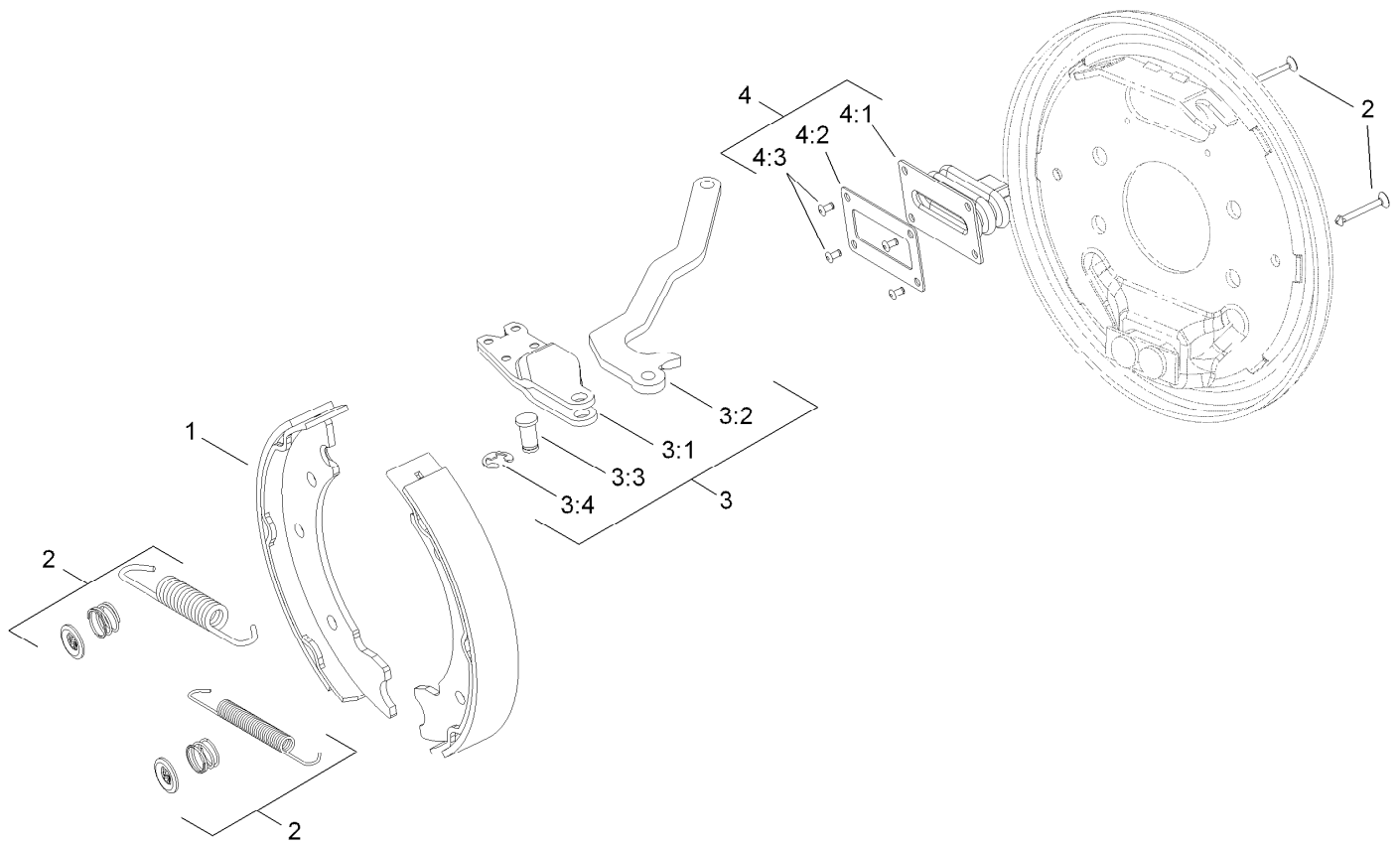
Ref.	Part Number	Qty.	Description
42	321-21	1	Screw-HH
43	104-7201	1	Nut-HF, NI



Left Hand Brake Assembly No. 120-0235

Ref.	Part Number	Qty.	Description
1	139-5950	1	Brake Shoe Kit
2	108-6983	1	Brake Hardware Kit
3	120-0236	1	LH Actuator Kit
3:1		1	Housing ●
3:2		1	Lever-LH ●
3:3		1	Pin-Pivot ●
3:4		1	E-Ring ●
4	110-8885	1	Dust Boot Kit
4:1		1	Boot ●
4:2		1	Plate-Back Up ●
4:3		2	Rivet ●

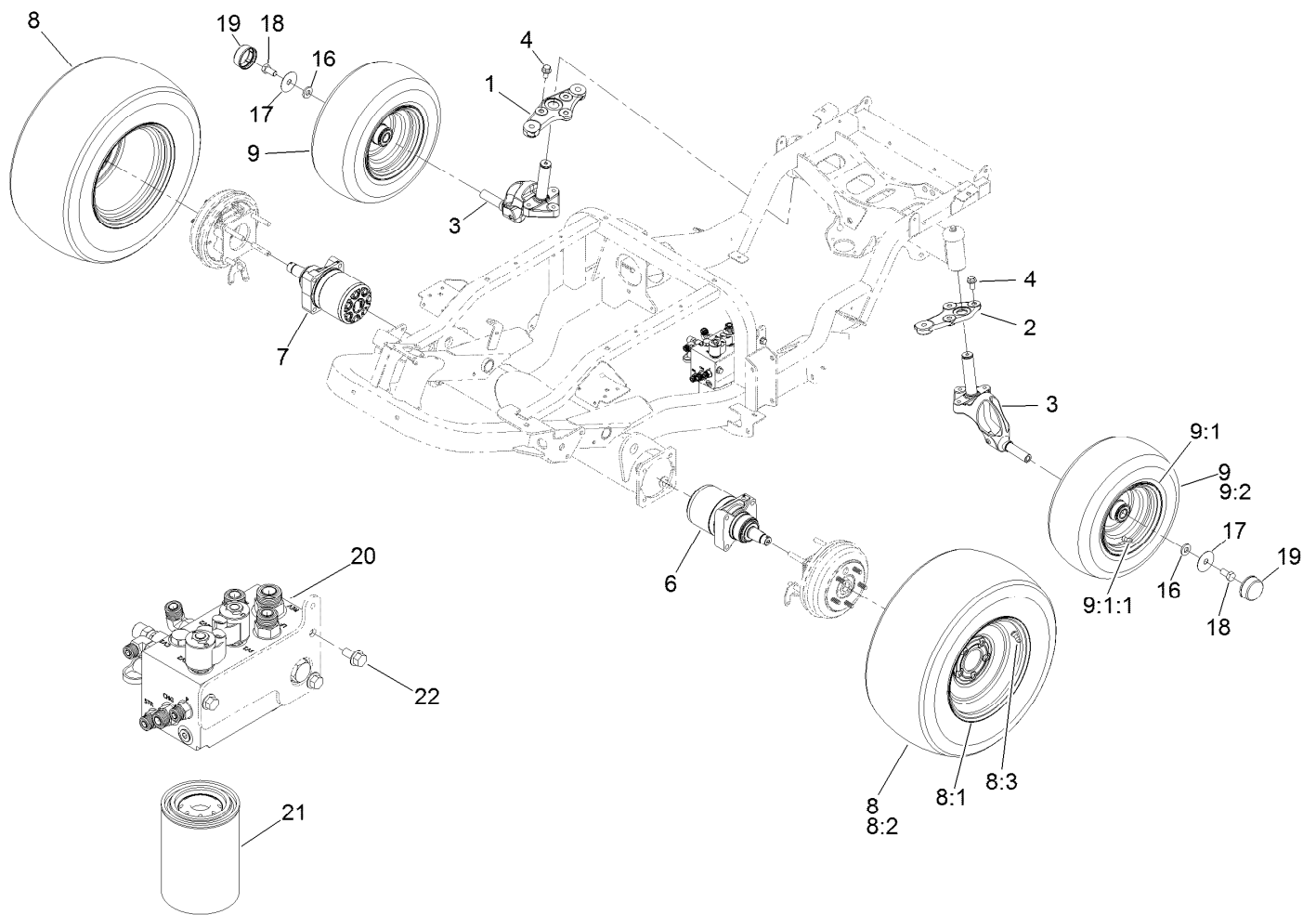
● Not serviced separately



Right Hand Brake Assembly No. 120-0233

Ref.	Part Number	Qty.	Description
1	139-5950	1	Brake Shoe Kit
2	108-6983	1	Brake Hardware Kit
3	120-0234	1	RH Actuator Kit
3:1		1	Housing ●
3:2		1	Lever-RH ●
3:3		1	Pin-Pivot ●
3:4		1	E-Ring ●
4	110-8885	1	Dust Boot Kit
4:1		1	Boot ●
4:2		1	Plate-Back Up ●
4:3		2	Rivet ●

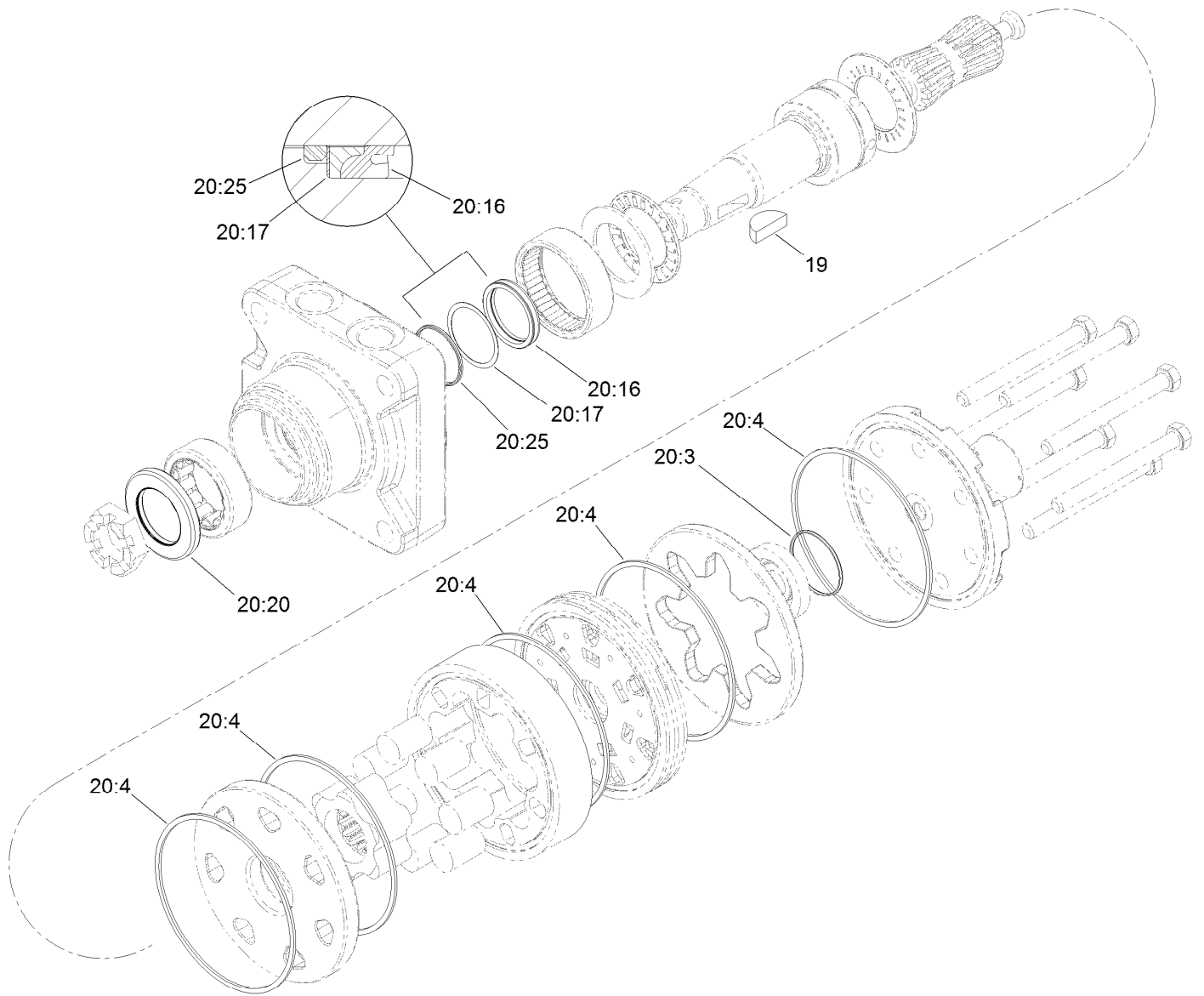
● Not serviced separately



Hydraulic Drive Assembly

Ref.	Part Number	Qty.	Description
1	140-3142	1	Link-Drag, RH
2	140-3144	1	Link-Drag, LH
3	137-1647	2	Spindle-Steer
4	3234-6	6	Screw-HHF
6	137-2459	1	Motor-Hydraulic, CCW
7	137-2479	1	Motor-Hydraulic, CW
8	137-2593	2	Wheel ASM
8:1	137-2595	1	Rim
8:2	137-2581	1	Tire
8:3	232-27	1	Stem-Valve
9	138-0310	2	Wheel ASM

Ref.	Part Number	Qty.	Description
9:1	138-0311	1	Rim-8" X 5.38"
9:1:1	232-27	1	Stem-Valve
9:2	1-413474	1	Tire-Turfmaster
16	99-7667	2	Washer-Flat
17	99-7719	2	Washer
18	327-3	2	Screw-HH
19	94-7871	2	Cap-Dust
20	138-4488	1	Manifold-Steering/Lift
21	86-3010	1	Filter-Oil
22	3234-1	3	Screw-HHF

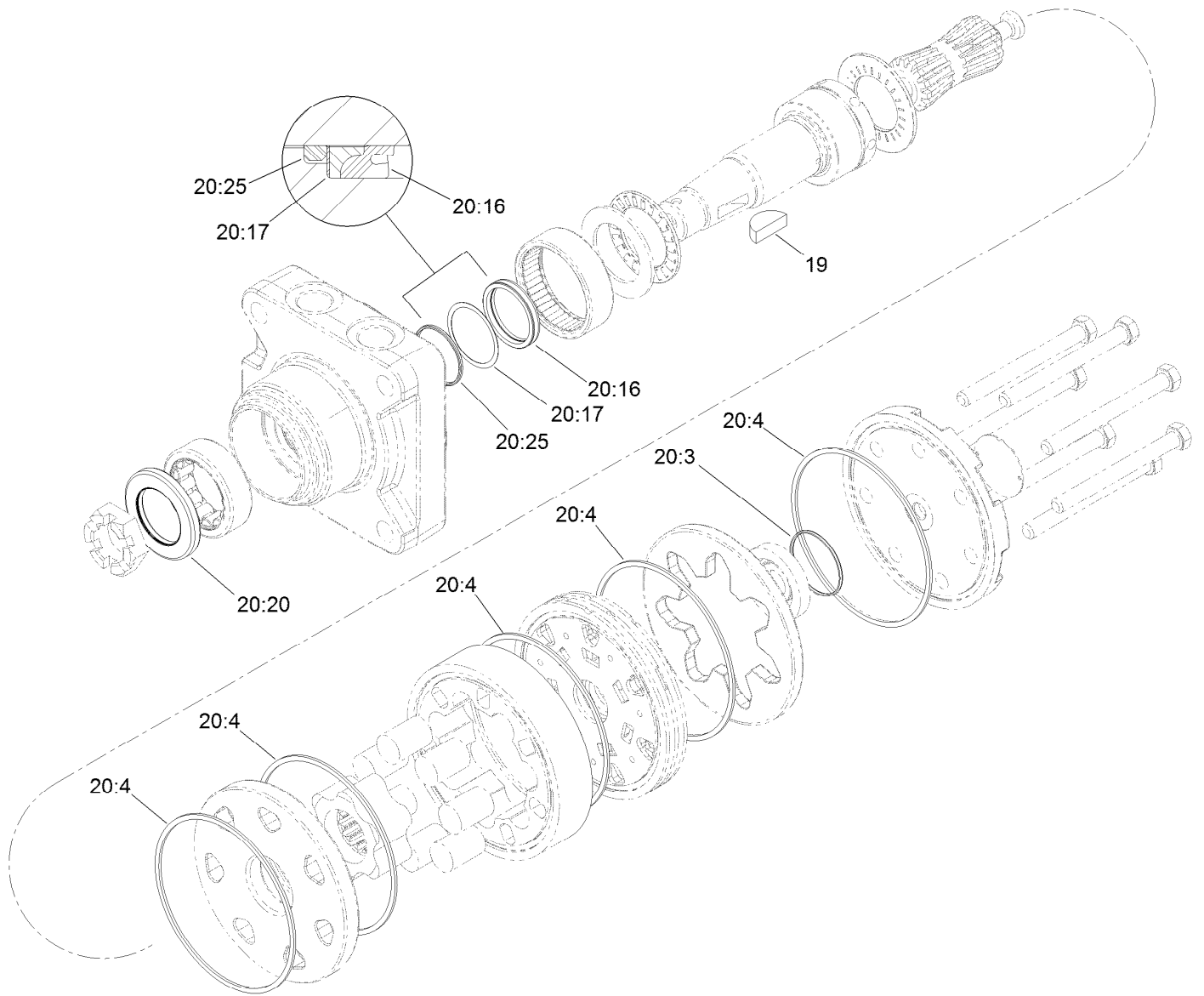


Hydraulic Motor Assembly No. 137-2459

Ref.	Part Number	Qty.	Description
19	3257-42	1	Key-Woodruff
20	110-8896	1	Seal Kit ●
20:3		1	Seal-Commutator, Vespel ■
20:4		6	Seal-Body, Buna ■
20:16		1	Seal-Shaft ■
20:17		1	Washer-Back Up ■
20:20		1	Seal-Dirt/Water ■
20:25		1	Ring-Back Up ■

● Not illustrated

■ Not serviced separately

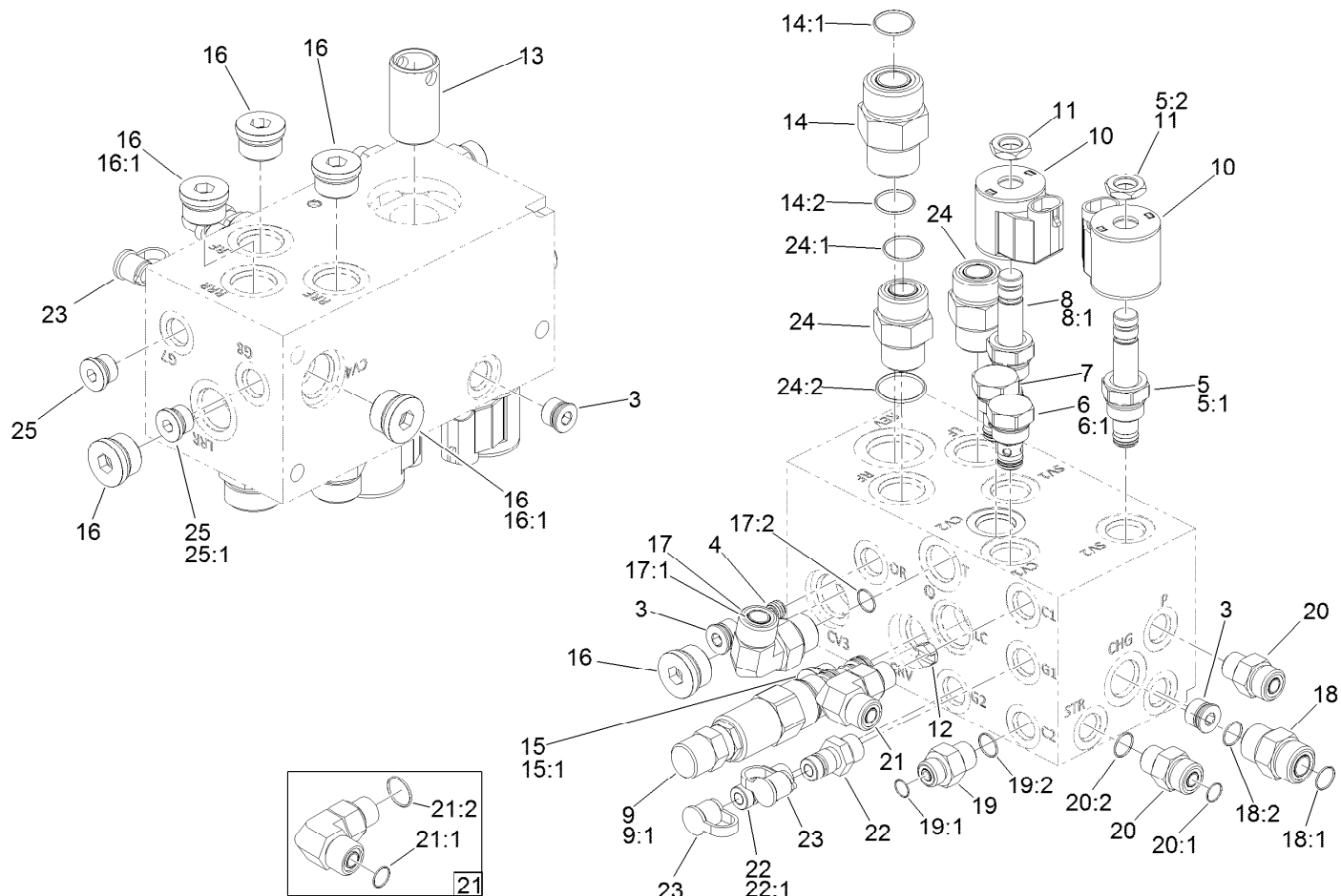


Hydraulic Motor Assembly No. 137-2479

Ref.	Part Number	Qty.	Description
19	3257-42	1	Key-Woodruff
20	110-8896	1	Seal Kit ●
20:3		1	Seal-Commutator, Vespel ■
20:4		6	Seal-Body, Buna ■
20:16		1	Seal-Shaft ■
20:17		1	Washer-Back Up ■
20:20		1	Seal-Dirt/Water ■
20:25		1	Ring-Back Up ■

● Not illustrated

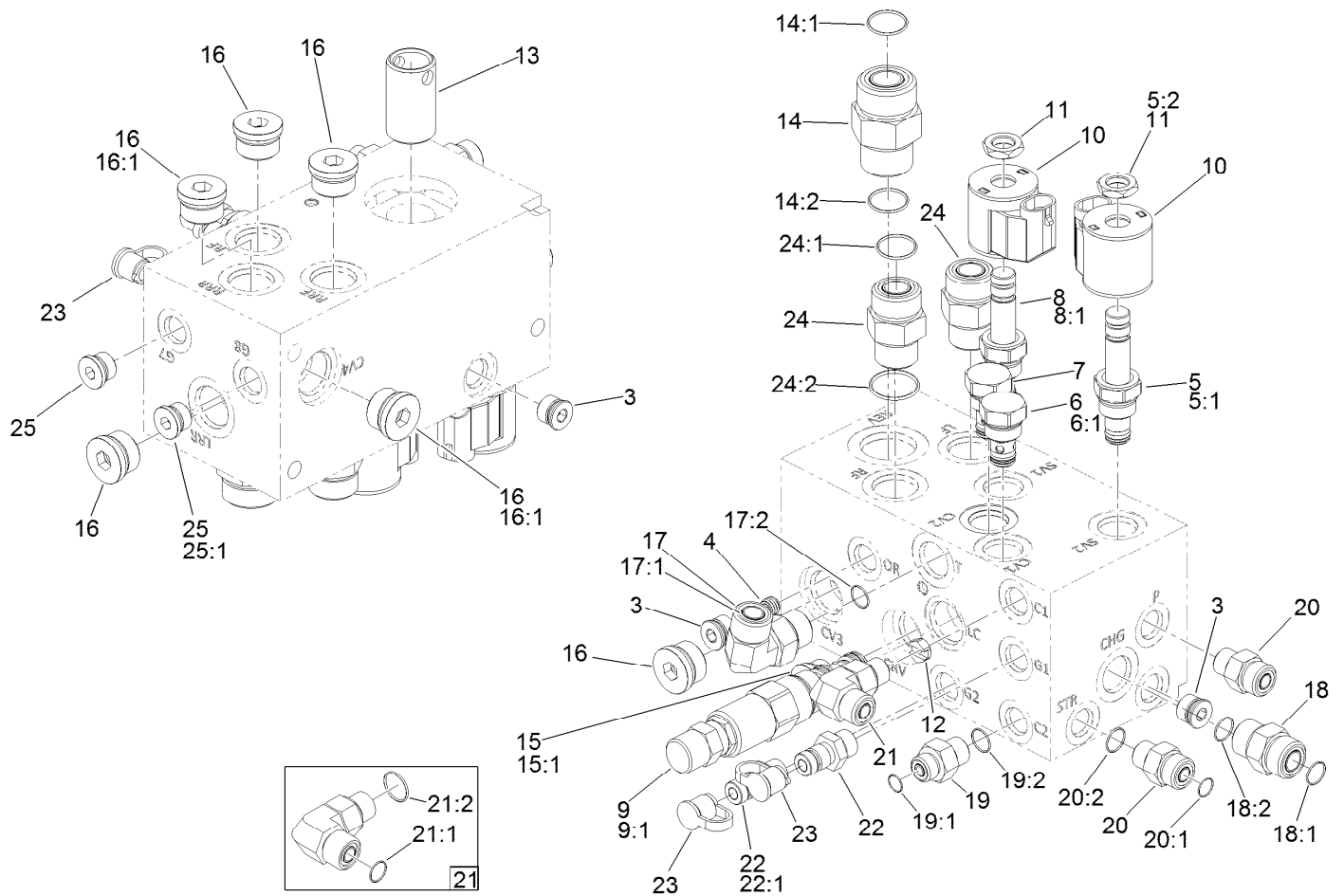
■ Not serviced separately



Steering/Lift Manifold No. 138-4488

Ref.	Part Number	Qty.	Description
3	112-9213	3	Plug
4	110-8883	1	Plug-Orifice (0.040)
5	112-9206	1	Solenoid Valve ASM
5:1	105-9156	1	Seal Kit
5:2	110-2634	1	Nut-Coil
6	114-2873	1	Check Valve ASM
6:1	105-9156	1	Seal Kit
7	139-1213	1	Valve-Check
8	120-6562	1	Valve-Solenoid
8:1	105-9156	1	Seal Kit
9	144-0501	1	Valve-Logic, 220 PSI (Adjustable)
10	110-0497	2	Coil-Solenoid
11	110-2634	2	Nut-Coil
12	139-6296	1	Orifice-Check 0.100 DIA
13	139-6297	1	Nipple-Filter
14	340-9	1	Fitting-STR
14:1	237-58	1	O-Ring
14:2	237-81	1	O-Ring
15	353-988	1	Plug-Hex
15:1	237-79	1	O-Ring

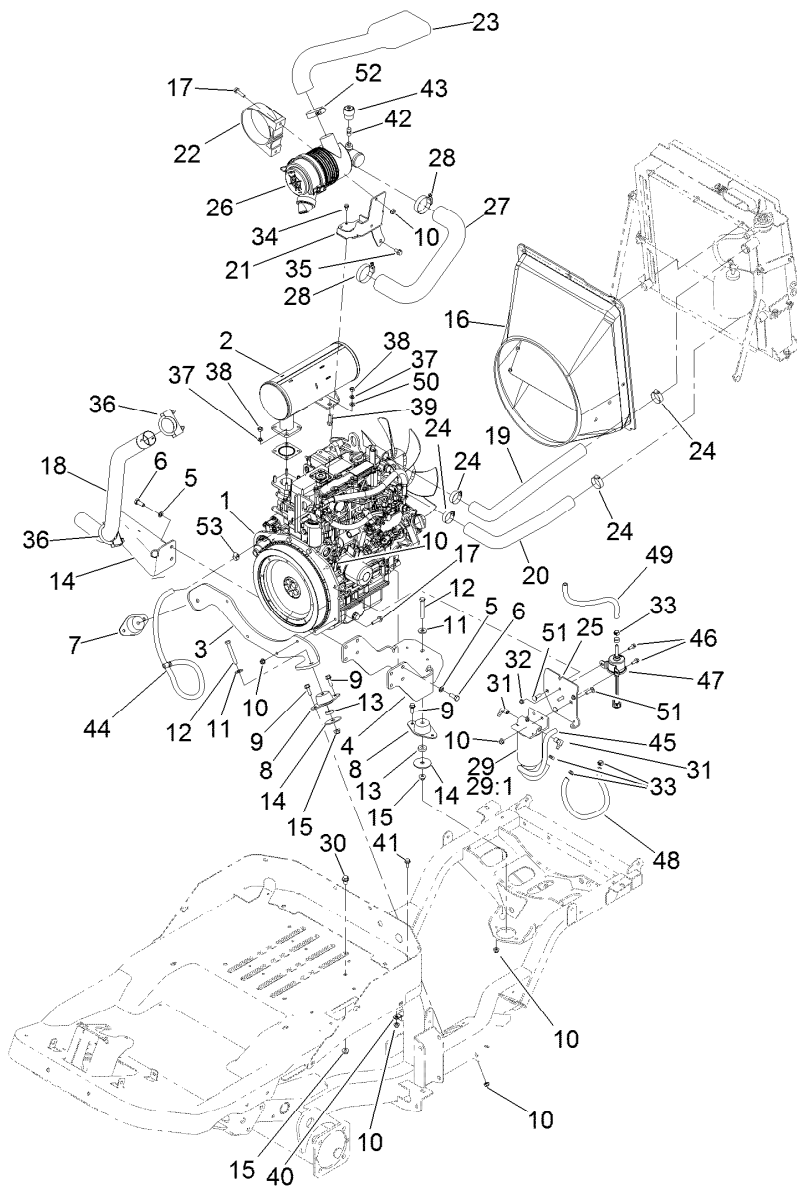
Ref.	Part Number	Qty.	Description
16	353-551	6	Plug-HH
16:1	237-80	1	O-Ring
17	340-98	1	Fitting-Elbow, 90 DEG
17:1	237-79	1	O-Ring
17:2	237-30	1	O-Ring
18	340-4	1	Fitting-Straight
18:1	237-30	1	O-Ring
18:2	237-79	1	O-Ring
19	340-1	1	Fitting-Straight
19:1	237-21	1	O-Ring
19:2	237-42	1	O-Ring
20	340-2	2	Fitting-Straight
20:1	237-22	1	O-Ring
20:2	237-42	1	O-Ring
21	340-77	1	Fitting-Elbow, 90 DEG
21:1	237-22	1	O-Ring
21:2	237-42	1	O-Ring
22	59-7410	2	Fitting-Diagnostic
22:1	237-42	1	O-Ring
23	354-79	2	Cap-Dust
24	340-7	2	Fitting-Straight



Steering/Lift Manifold No. 138-4488 (continued)

Ref.	Part Number	Qty.	Description
24:1	237-65	1	O-Ring
24:2	237-80	1	O-Ring

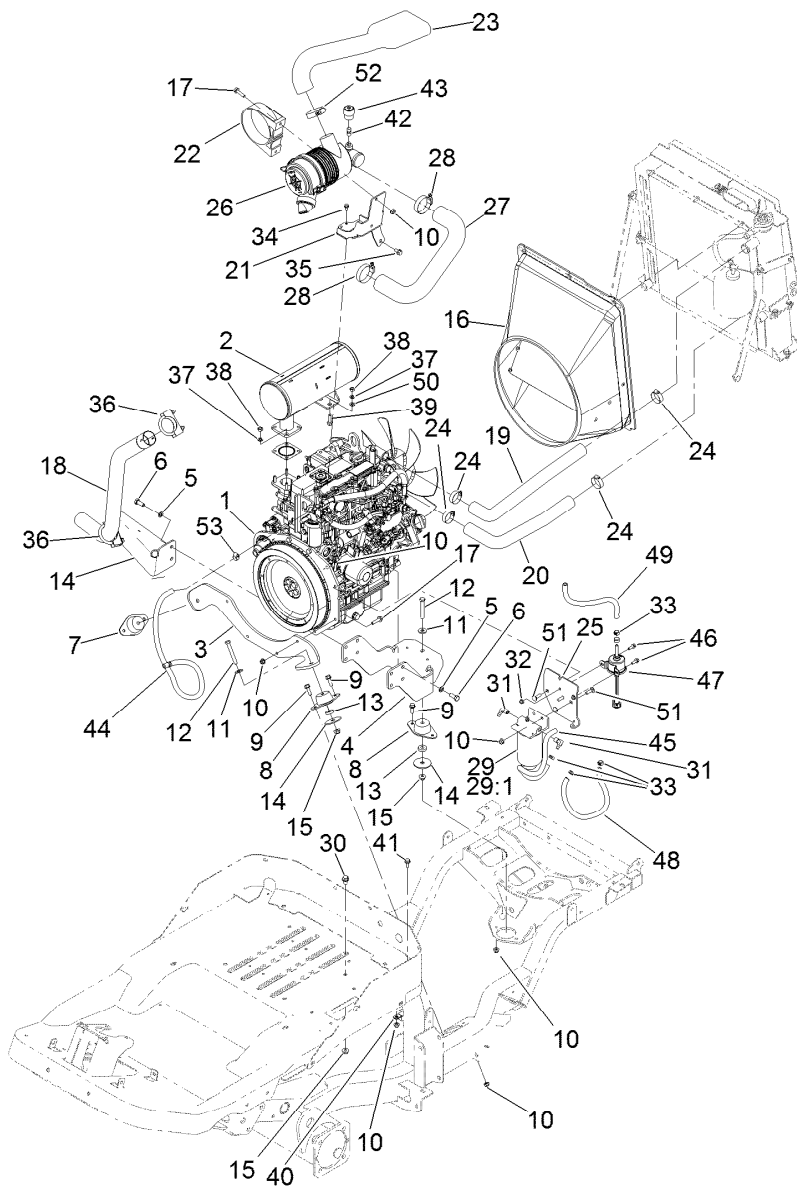
Ref.	Part Number	Qty.	Description
25	353-989	2	Plug-Hex, Hollow
25:1	237-42	1	O-Ring



Engine, Air Cleaner and Exhaust Assembly

Ref.	Part Number	Qty.	Description
1	139-6182	1	Engine-Yanmar 3Tnv80F-Nxdtr
2	139-6269	1	Muffler ASM
3	138-4464-0P	1	Mount-Engine, Front [primed]
4	138-0424-0P	1	Mount-Engine, Rear 24HP [primed]
5	48-9590	8	Washer-Lock
6	33115-025	8	Screw-HH
7	139-0856	1	Mount-Engine
8	125-5244	2	Mount-Engine
9	3234-29	5	Screw-HHF
10	104-8300	16	Nut-HF, NI
11	80-6990	3	Washer-Hardened
12	323-14	3	Screw-HH
13	138-6462	3	Support-Isolator
14	144-0515-03	1	Support-Tailpipe
15	104-8301	4	Nut-HF, NI
16	139-6279	1	Shroud - Fan ASM
17	3234-36	6	Screw-HHF
18	144-0570	1	Pipe-Exhaust

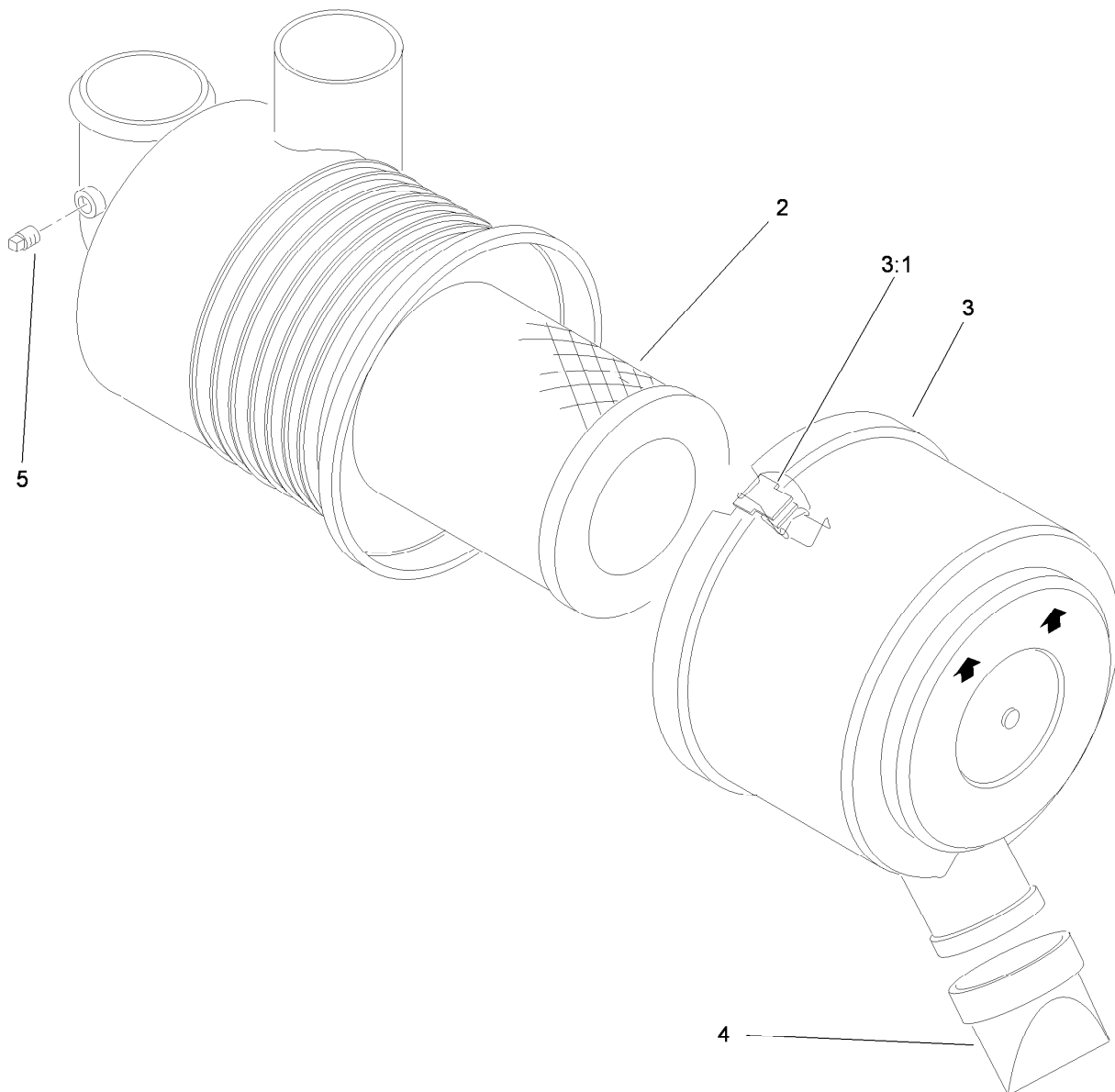
Ref.	Part Number	Qty.	Description
19	138-4493	1	Hose-Radiator, Upper
20	138-4494	1	Hose-Radiator, Lower
21	138-4486-0P	1	Bracket-Air Cleaner [primed]
22	95-5806	1	Bracket-Mounting, Air Cleaner
23	138-4460	1	Hose-Intake, Air Cleaner
24	2412-34	4	Clamp-Hose
25	138-4472-0P	1	Angle-Filter Mount
26	93-2190	1	Air Cleaner ASM
27	137-5881	1	Hose-Intake
28	2412-92	2	Clamp-Hose
29	110-9044	1	Separator-Filter
29:1	110-9049	1	Filter-Spin On, Fuel/Water
30	3234-9	1	Screw-HHF
31	353-781	2	Fitting-HYD, 90
32	104-7201	2	Nut-HF, NI
33	92-2379	5	Clamp-Hose
34	33103-016	3	Screw-HHF
35	33104-016	1	Screw-HHF
36	18-2130	2	Clamp
37	3253-4	6	Washer-Lock



Engine, Air Cleaner and Exhaust Assembly (continued)

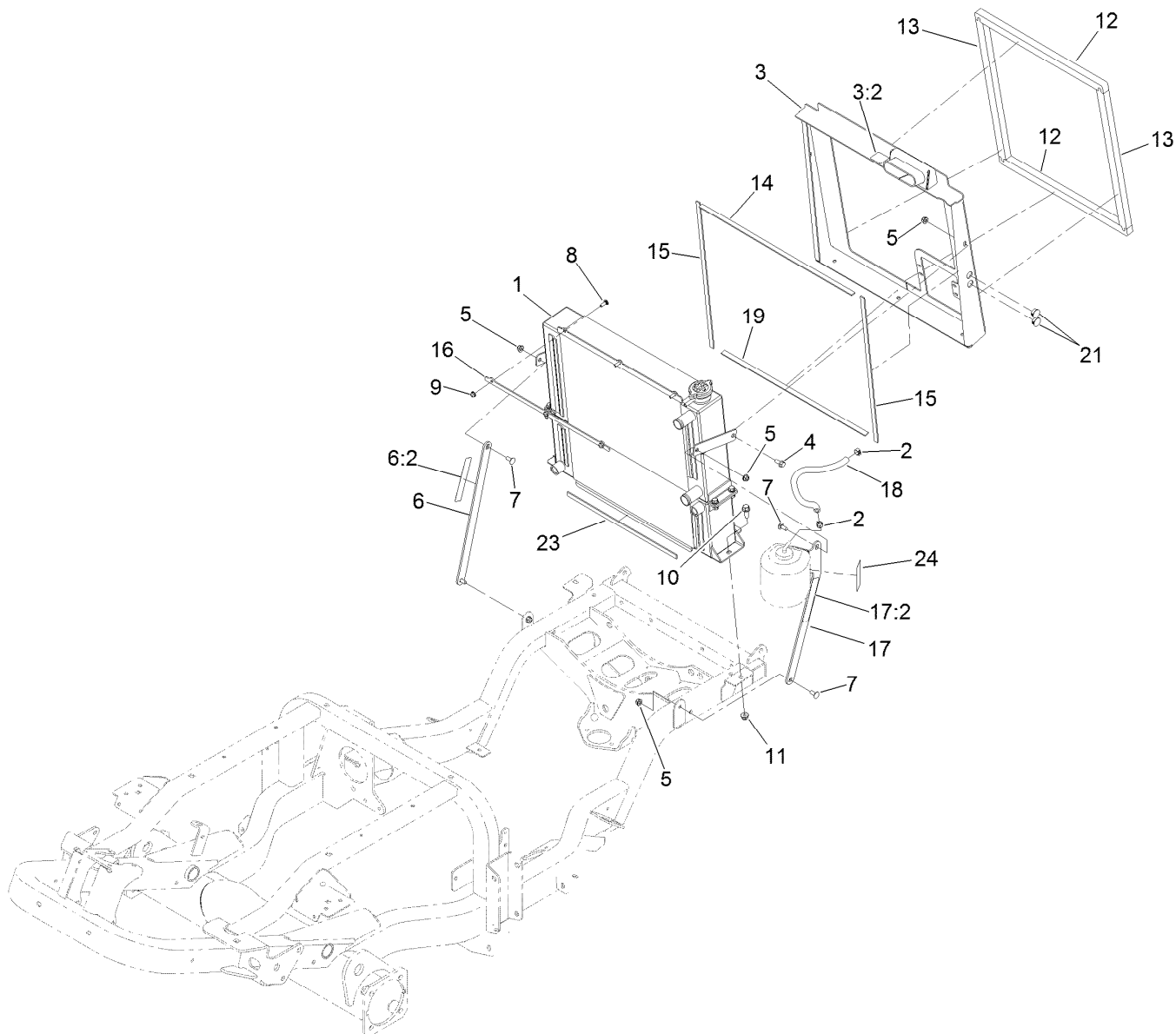
Ref.	Part Number	Qty.	Description
38	33014-00	6	Nut-Hex
39	33104-030	2	Screw-HHF
40	120-1959	1	Clamp
41	3234-47	1	Screw-HHF
42	94-1416	1	Adapter-Indicator
43	93-9164	1	Indicator-Mini
44	132-7563	1	Hose-Breather, Transmission
45	110-4112	1	Hose-Fuel

Ref.	Part Number	Qty.	Description
46	3234-4	2	Screw-HHF
47	121-5613	1	Pump-Fuel, Electric
48	110-4101	1	Hose-Fuel
49	110-4104	1	Hose-Fuel
50	88-7200	2	Washer-Flat
51	3230-2	4	Bolt-CARR
52	2412-130	1	Clamp-Hose
53	2412-108	1	Clamp-Worm



Air Cleaner Assembly No. 93-2190

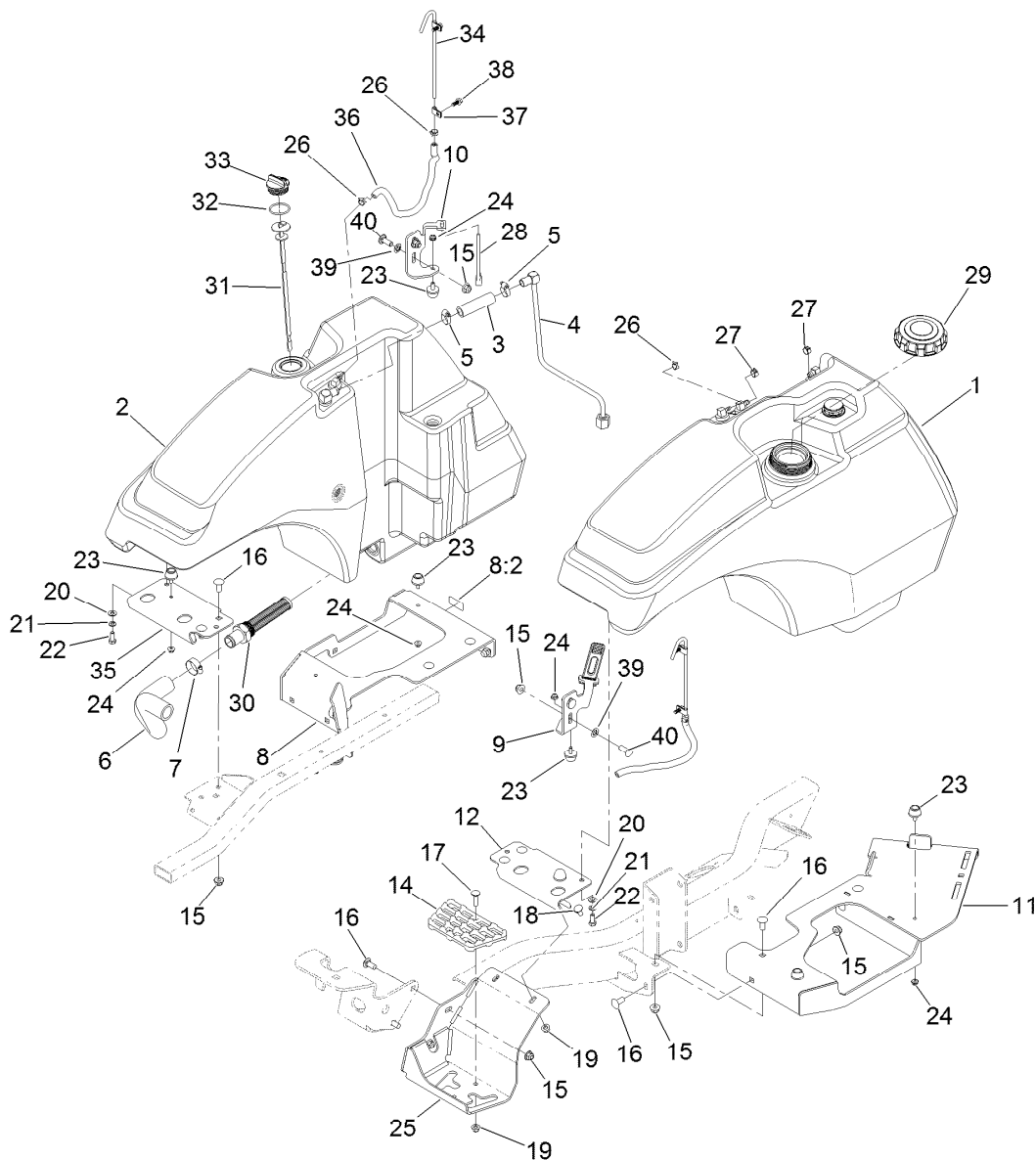
Ref.	Part Number	Qty.	Description
2	108-3811	1	Filter-Air
3	94-3652	1	Cover ASM
3:1	1-643283	2	Latch-Cleaner, Air
4	87-9400	1	Valve-Vacuator
5	285-17	1	Plug-Pipe



Radiator and Cooler Assembly

Ref.	Part Number	Qty.	Description
1	138-7420	1	Radiator/Oil Cooler ASM
2	92-2379	2	Clamp-Hose
3	139-6232	1	Shroud-Cooler ASM
3:2	115-8155	1	Decal-Warning
4	3234-47	2	Screw-HHF
5	104-8300	11	Nut-HF, NI
6	139-6229	1	Strap-Cooler
6:2	93-7272	1	Decal-Warning
7	3230-23	9	Bolt-CARR
8	1-807512	3	Bolt-CARR
9	104-7201	3	Nut-HF, NI
10	3234-42	2	Screw-HHF
11	104-8301	2	Nut-HF, NI

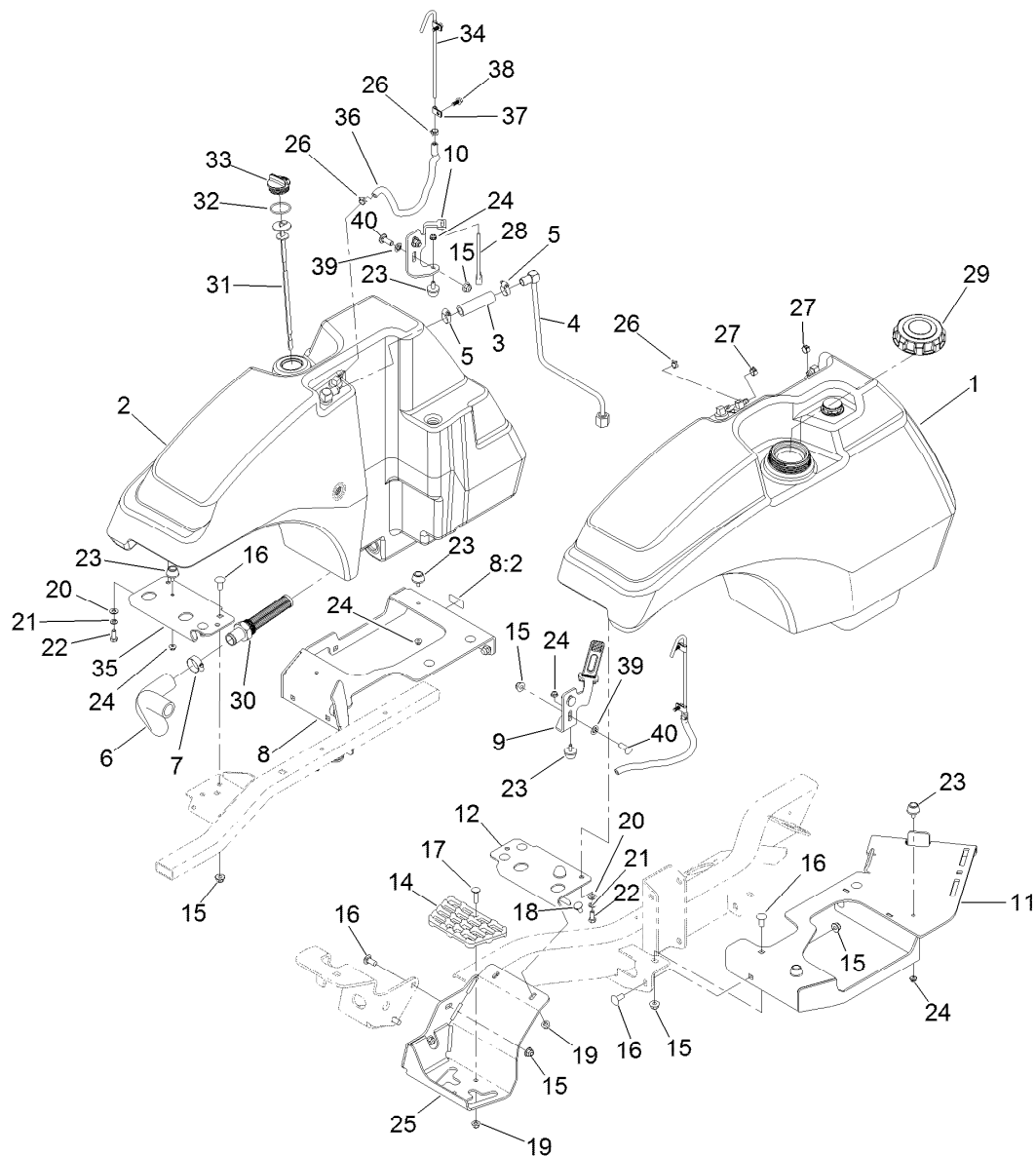
Ref.	Part Number	Qty.	Description
12	138-4410	2	Seal-Foam
13	138-4411	2	Seal-Foam
14	138-4453	1	Foam-Radiator
15	138-4454	2	Foam-Radiator, Side
16	138-4461-0P	1	Bracket-Shroud Retainer
17	139-6230	1	Bracket-Bottle Mount
17:2	93-7272	1	Decal-Warning
18	106-1126	1	Hose-Fuel
19	108-1393	1	Strip-Foam
21	130-8439	2	Plug-Dome
23	130-9182	1	Foam-Radiator, Short
24	144-0472	1	Decal-Coolant Level



Fuel and Hydraulic Tank Assembly

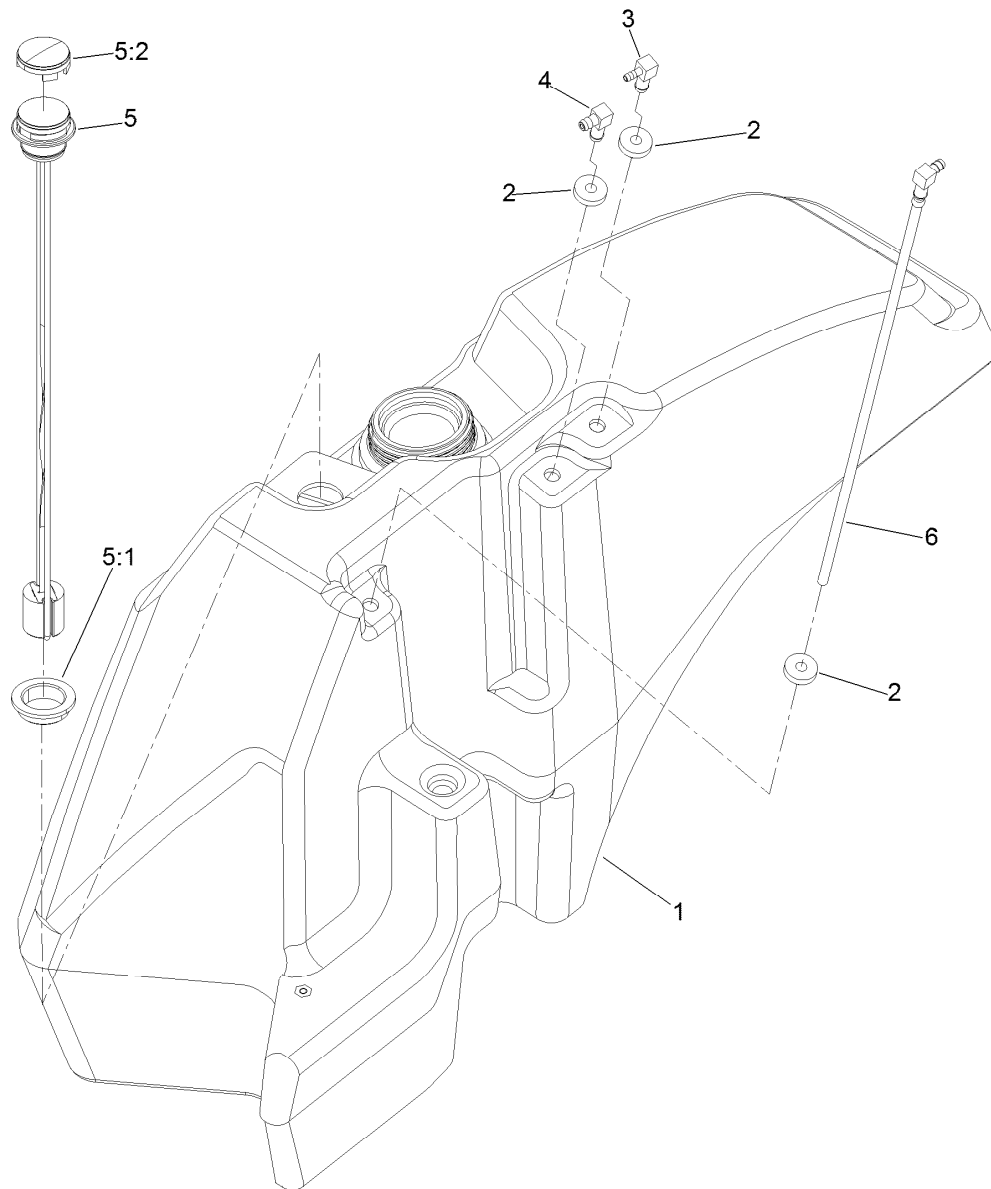
Ref.	Part Number	Qty.	Description
1	138-0291	1	Fuel Tank
2	138-4418	1	Hydraulics Tank ASM
3	114-4920	1	Hose
4	138-7392	1	Hydraulic Tube ASM
5	2412-119	2	Clamp-Hose, Worm Drive
6	138-7361	1	Hose-Suction
7	2412-34	1	Clamp-Hose
8	139-6228	1	Tank Support-Hydraulic
8:2	127-0392	1	Decal-Hot Surface
9	138-0441-03	1	Bracket-Tank Hold Down, LH
10	138-7315-03	1	Bracket-Tank Hold Down, RH
11	138-4404-03	1	Tray-Tank/Battery
12	138-7365-03	1	Bracket-Tank Mount, Front LH
14	126-4781	1	Step-Deck
15	104-8301	19	Nut-HF, NI
16	3231-27	15	Screw-CARR
17	3230-3	1	Screw-CARR
18	3230-23	2	Bolt-CARR

Ref.	Part Number	Qty.	Description
19	104-8300	3	Nut-HF, NI
20	3256-23	2	Washer-Plain
21	3253-4	2	Washer-Lock
22	322-3	2	Screw-HH
23	109-2365	8	Bumper-Rubber
24	104-7201	8	Nut-HF, NI
25	139-0927-01	1	Bracket-Mount, Step
26	2412-98	4	Clamp-Hose
27	92-2379	2	Clamp-Hose
28	131-8402	2	Strap-Down, Hold
29	125-9171	1	Cap-Fuel
30	138-7499	1	Fitting-Strainer
31	138-7388	1	Dipstick
32	94-8166	1	O-Ring
33	93-7498	1	Plug-Plastic
34	139-6252	2	Tube-Vent
35	139-0940-03	1	Bracket-Tank Mount, Front RH
36	139-6253	2	Hose-Fuel
37	2412-72	4	Clip-Closed, Insulated
38	99-6810	4	Screw-HHF



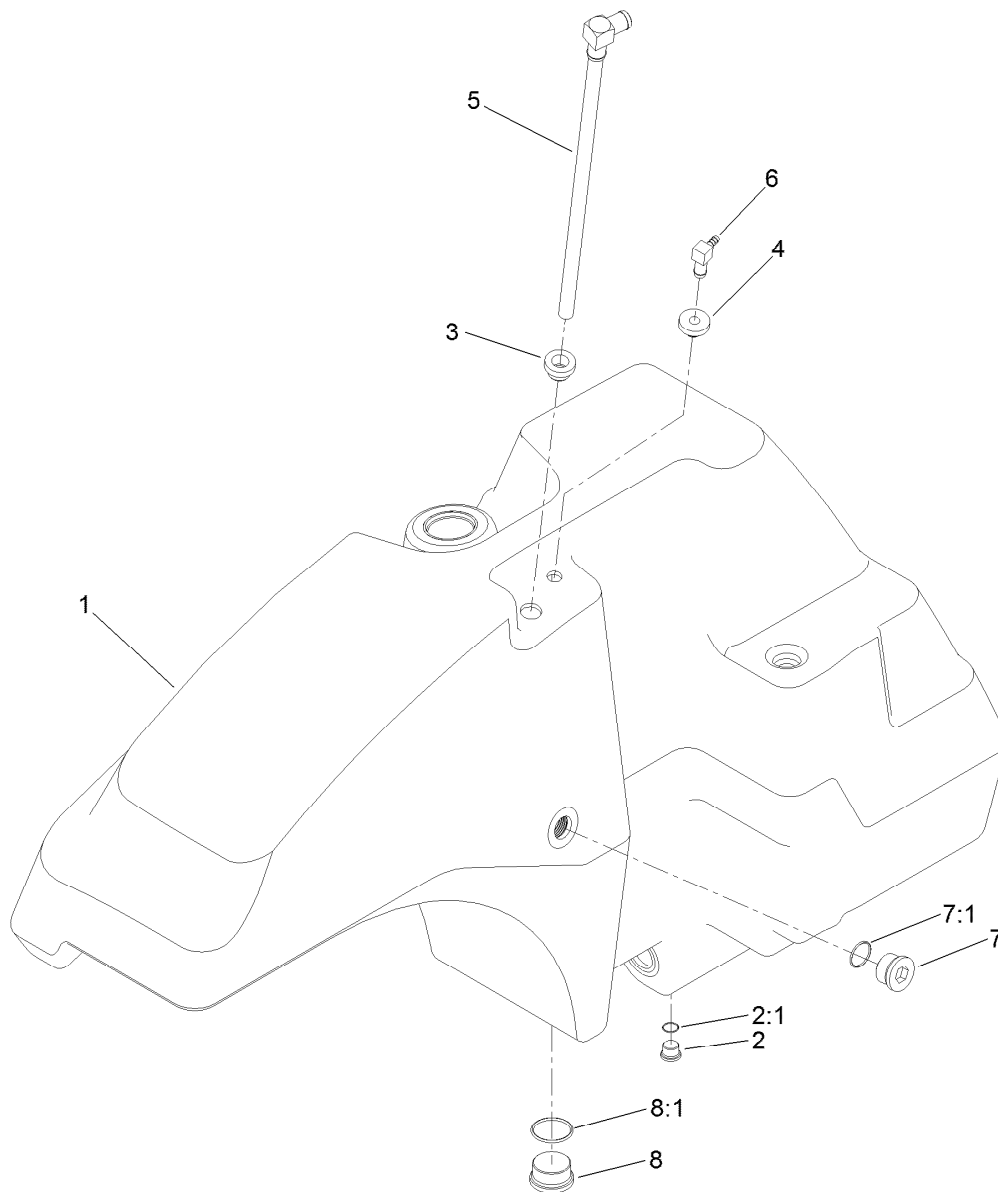
Fuel and Hydraulic Tank Assembly (continued)

Ref.	Part Number	Qty.	Description
39	107-3154	6	Nut-Push
40	3231-22	4	Screw-CARR



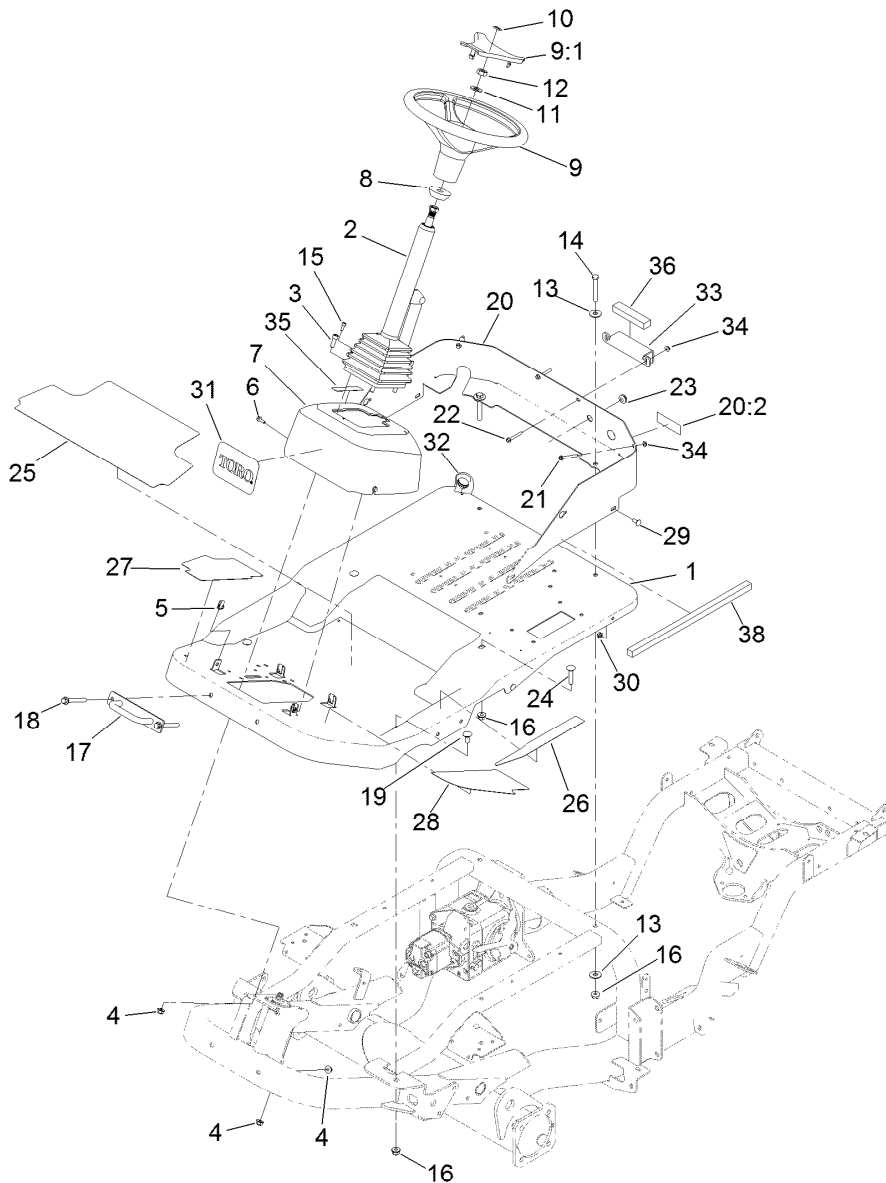
Fuel Tank Assembly No. 138-0291

Ref.	Part Number	Qty.	Description
1	138-7385	1	Fuel Tank W/Inserts ASM
2	46-6560	3	Bushing
3	104-5228	1	Fitting-Elbow, 90 DEG
4	46-6550	1	Fitting-Elbow, 90 DEG
5	139-0872	1	Gauge-Fuel
5:1	119-0508	1	Seal
5:2	117-8404	1	Dial-Gauge
6	138-7389	1	Pipe-Stand



Hydraulic Tank Assembly No. 138-4418

Ref.	Part Number	Qty.	Description
1	138-7386	1	Tank-Hydraulic W/Inserts
2	353-989	1	Plug-Hex, Hollow
2:1	237-42	1	O-Ring
3	104-0790	1	Bushing
4	46-6560	1	Bushing
5	138-7384	1	Tube-Drop
6	104-5228	1	Fitting-Elbow, 90 DEG
7	139-6333	1	Fitting-Plug
7:1	237-81	1	O-Ring
8	105-3921	1	Fitting-Plug
8:1	237-146	1	O-Ring

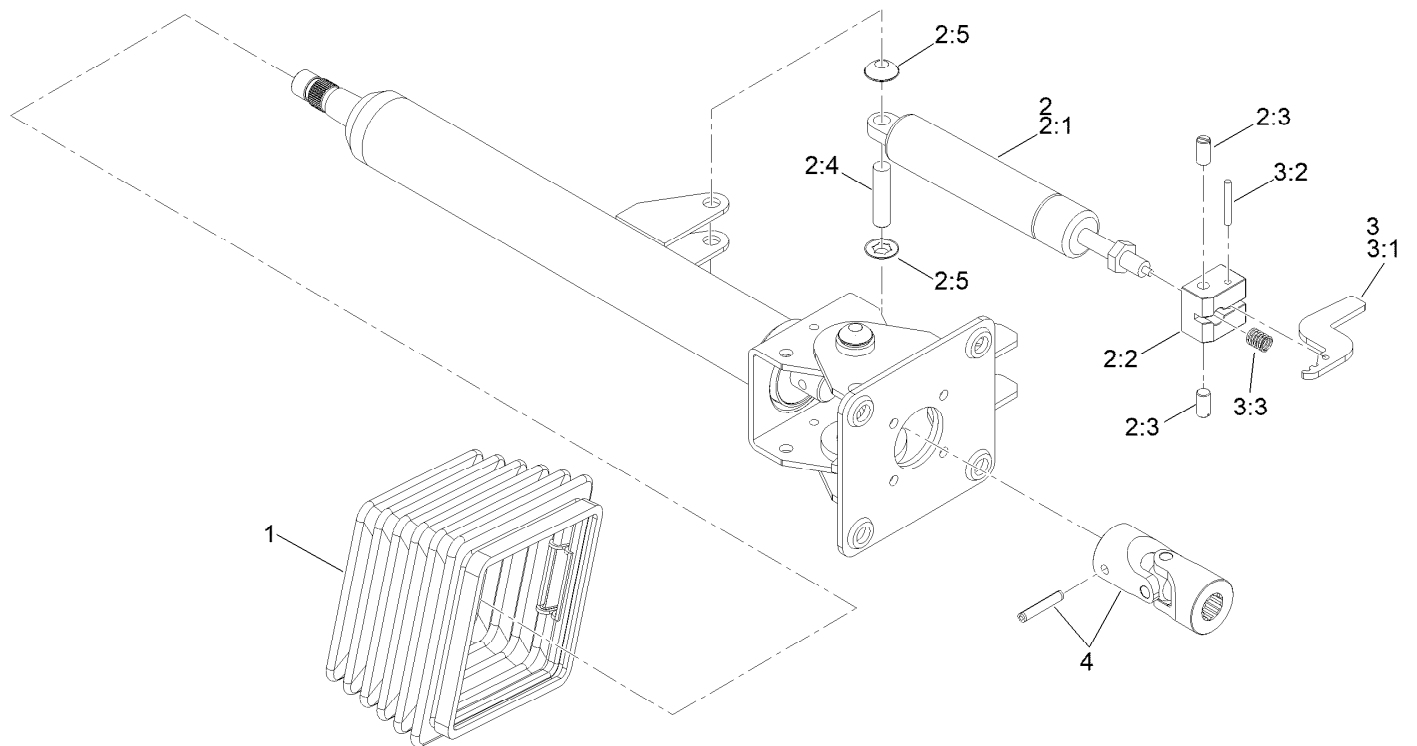


Platform, Steering and Console Assembly

Ref.	Part Number	Qty.	Description
1	138-0300SP	1	Platform-Stamped
2	139-0857	1	Column-Steering, Tilt
3	3274-7	4	Screw-HSH
4	104-8301	6	Nut-HF, NI
5	107069	4	Clip
6	99-6810	4	Screw-HHF
7	138-7494	1	Cover-Steering
8	93-5429	1	Collar-Foam
9	98-1471	1	Wheel-Steering
9:1	98-1468	1	Cover-Wheel, Steering
10	98-1459	1	Decal
11	3256-27	1	Washer-Flat
12	3296-33	1	Nut-Lock, NI
13	3256-40	4	Washer-Flat
14	324-12	2	Screw-HH
15	105-2409	4	Screw-HSH
16	114-8417	6	Nut-HF, NI
17	138-0288	1	Bracket-Down, Tie
18	3234-41	2	Screw-HHF
19	3232-1	2	Screw-CARR

Ref.	Part Number	Qty.	Description
20	144-0528	1	Plate-Firewall, Lower
20:2	132-1316	2	Decal-Danger, Belt
21	125-4287	2	Screw-HHF
22	3234-34	2	Screw-HHF
23	1-633630	1	Grommet
24	3232-5	2	Screw-CARR
25	139-0858	1	Tread-Foot, Main
26	139-0859	1	Tread-Foot, Side
27	139-0885	1	Tread-Foot, Front RH
28	139-0886	1	Tread-Foot, Front LH
29	3230-23	4	Bolt-CARR
30	104-8300	4	Nut-HF, NI
31	105-1217	1	Decal
32	144-0473	1	Plug-Harness, Firewall
33	139-2166-0P	1	Bracket-Hood Support
34	104-7201	4	Nut-HF, NI
35	140-1460	1	Decal-Traction Pedal
36	139-6202	1	Foam-Strip
38	139-6207	1	Foam-Strip

Steering Column Assembly No. 139-0857

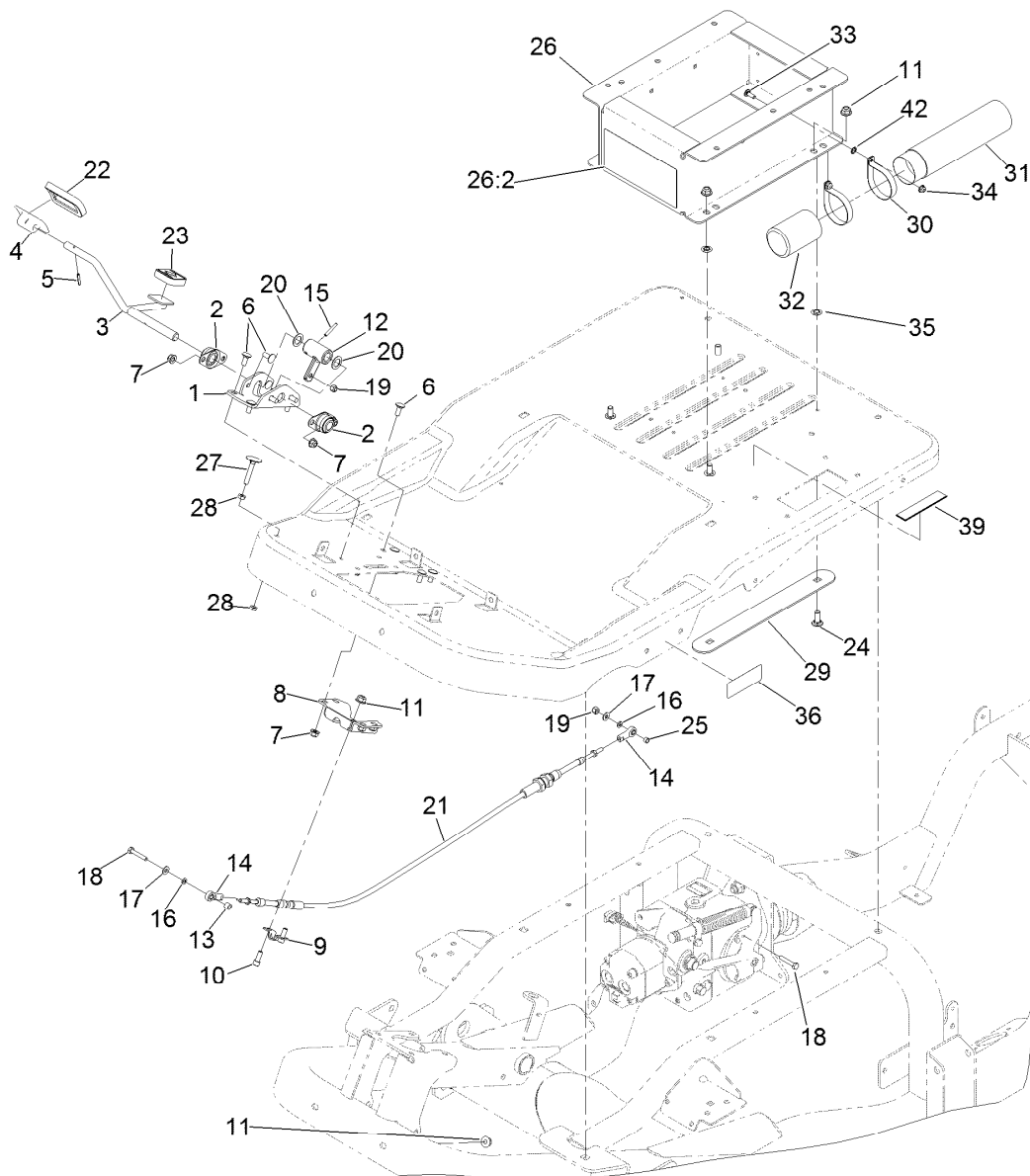


Steering Column Assembly No. 139-0857 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	110-6462	1	Bellows-Rubber
2	110-6463	1	Cylinder Service Kit
2:1		1	Cylinder-Gas ●
2:2		1	Block-Pedal ●
2:3		2	Bolt ●
2:4		1	Pin ●

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2:5		2	Washer-Lock ●
3	136-4385	1	Pedal Service Kit
3:1		1	Pedal ●
3:2		1	Pin ●
3:3		1	Spring ●
4	120-6256	1	Universal Joint Kit

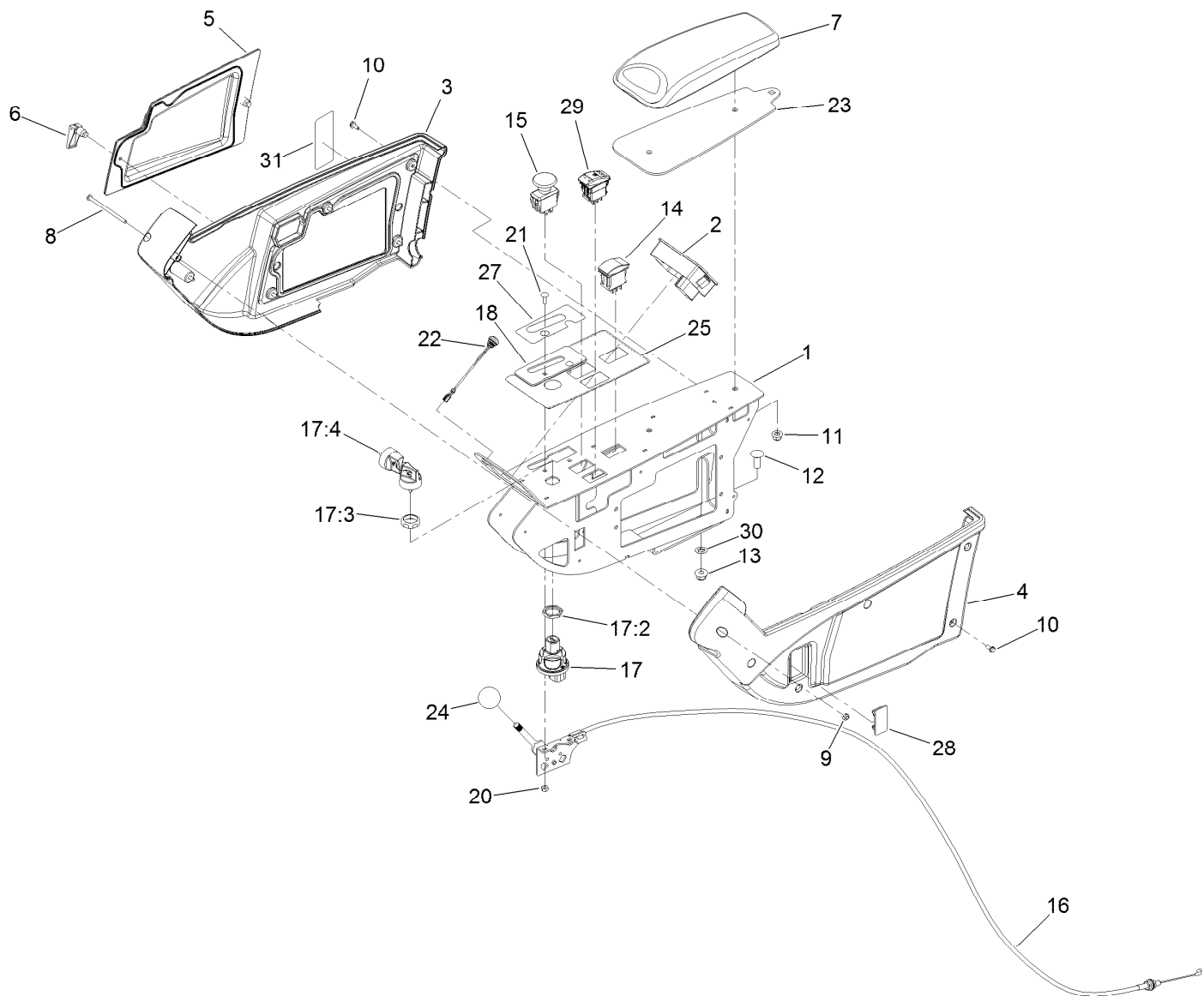
● Not serviced separately



Traction Pedal Assembly

Ref.	Part Number	Qty.	Description
1	138-7477-01	1	Bracket-Pedal, Traction
2	256-236	2	Bearing-Mount, Flange
3	138-4594	1	Pedal-Traction
4	117-9507	1	Pedal-Accelerator
5	32121-45	1	Pin-Spring
6	3230-23	12	Bolt-CARR
7	104-8300	12	Nut-HF, NI
8	138-7446-01	1	Bracket-Cable, Traction
9	93-2092	1	Clamp-Cable
10	3274-10	2	Screw-HSH
11	104-8301	6	Nut-HF, NI
12	117-5199	1	Hub-Pedal, Traction
13	66-8010	1	Spacer
14	2411-41	2	Rod End-Ball Joint
15	32121-6	1	Pin-Roll, Slotted
16	33093-00	2	Washer-Flat
17	3256-22	2	Washer-Flat
18	321-9	2	Screw-HH
19	3296-42	2	Nut-Lock, NI
20	137-2601	2	Washer

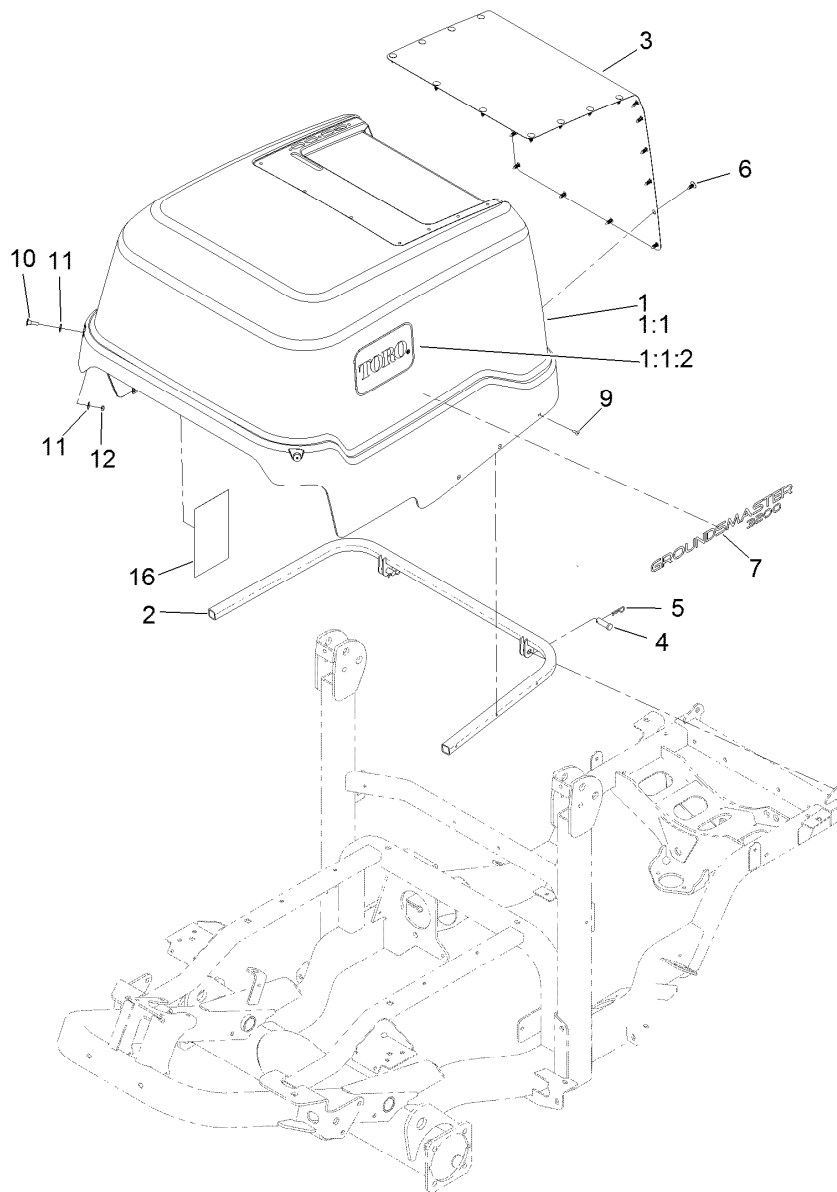
Ref.	Part Number	Qty.	Description
21	137-2568	1	Traction-Cable
22	74-9100	1	Pad-Pedal, Forward
23	74-9110	1	Pad-Pedal, Reverse
24	3231-22	4	Screw-CARR
25	130-9691	1	Spacer
26	139-6221	1	Seat Box ASM
26:2	139-6215	1	Decal-Warning
27	115-8240	1	Screw-Elevator
28	3218-2	2	Nut-Hex Jam
29	138-7422-0P	2	Strip-Seat Mount
30	107-1865	2	R-Clamp
31	104-7050	1	Tube-Manual
32	104-7048	1	Cap-Housing
33	1-807512	2	Bolt-CARR
34	104-7201	2	Nut-HF, NI
35	107-3154	4	Nut-Push
36	106-9206	2	Decal-Torque, Wheel
39	133-8062	1	Decal-Arrestor, Spark
42	104-8310	2	Ring-Retaining



Control Console Assembly

Ref.	Part Number	Qty.	Description
1	133-6406-03	1	Panel
2	132-9751	1	Tdm 2001
3	108-7605	1	Cover-RH
4	108-7604	1	Cover-LH
5	108-7616	1	Panel-Access
6	74-5950	2	Latch-Swell
7	131-9637	1	Armrest-Quick Find
8	3250-22	1	Screw-PPH
9	3296-12	1	Nut-Lock, NI
10	32144-112	10	Screw-HWH
11	104-8300	2	Nut-HF, NI
12	3231-22	2	Screw-CARR
13	104-8301	2	Nut-HF, NI
14	100-1535	1	Switch-Rocker, (On)-Off-(On)
15	93-9999	1	Switch-PTO
16	138-4549	1	Cable-Throttle

Ref.	Part Number	Qty.	Description
17	121-5159	1	Ignition Switch ASM
17:2	121-5160	1	Nut-Hex
17:3	121-5161	1	Nut-Face
17:4	121-5162	1	Set-Key, Ignition
18	137-2510	1	Cover-Throttle, Lever
20	3296-2	2	Nut-Lock, NI
21	1-807533	2	Bolt-CARR
22	136-9678	1	Switch-Pushbutton
23	138-4548-03	1	Plate-Spacer, Console Pad
24	1-603175	1	Knob-Ball
25	138-7471	1	Decal-Console
27	138-7473	1	Decal-Throttle
28	99-7420	1	Plug-Hole
29	110-0811	1	Switch-Rocker On-None-(On)
30	107-3154	2	Nut-Push
31	140-3125	1	Decal-Fuse

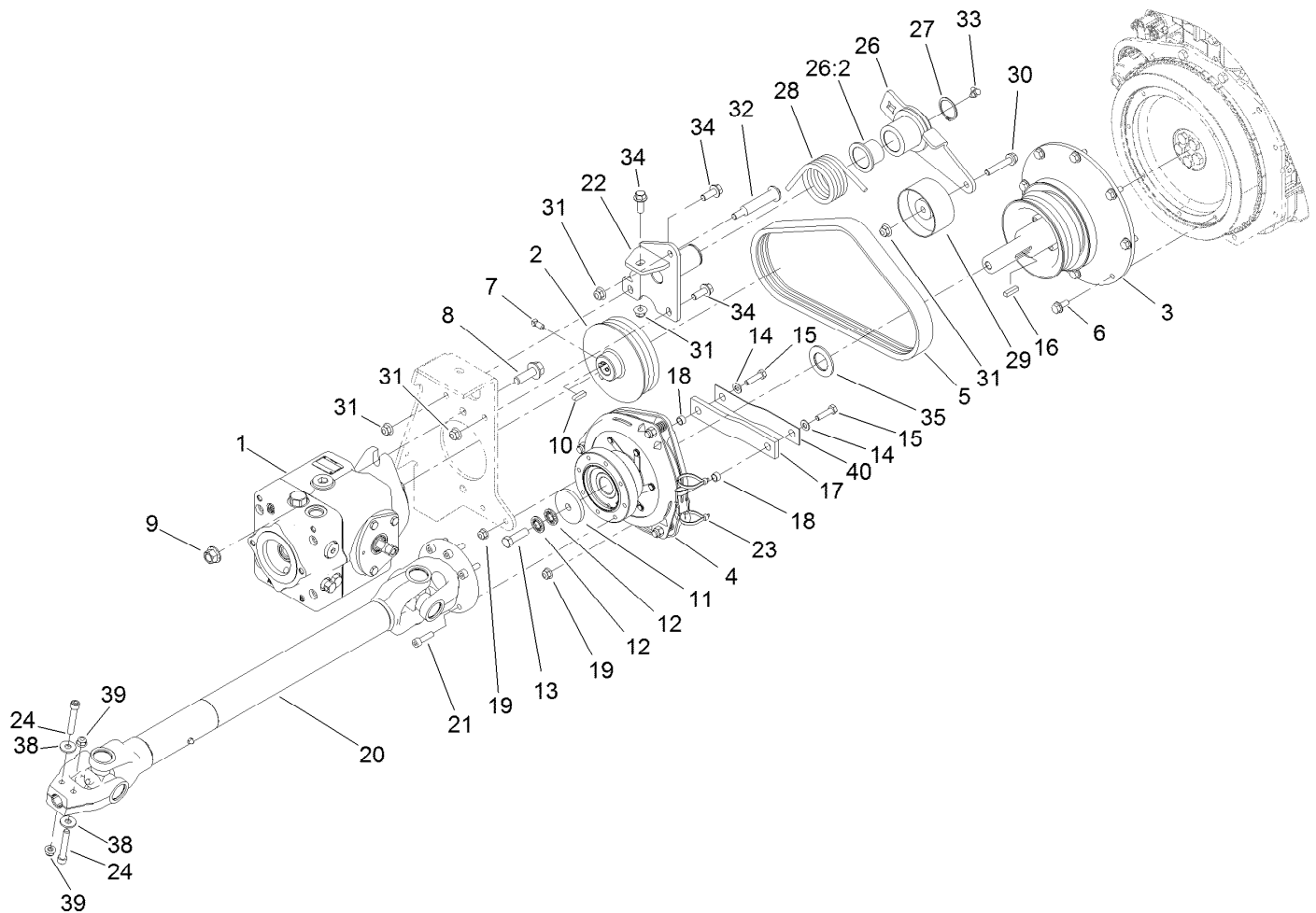


Hood Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	138-7330SP	1	Hood	5	3290-467	2	Pin-Hair
1:1		1	Hood ASM ■	6	117-2382	24	Plug-Plastic
1:1:2	62-7400	2	Decal-Toro Logo	7	139-6151	2	Decal-Identification
1:2	139-6225	1	Tape-Heat, Hood Front ●	9	114439	10	Rivet-Blind
1:3	139-6226	1	Tape-Heat, Hood Rear ●	10	139-0855	2	Screw-Countersunk, Oval
1:4	139-6227	1	Tape-Heat, Hood Side ●	11	3256-2	4	Washer-Flat
2	138-7331-03	1	Support-Hood	12	3296-56	2	Nut-Lock, NI
3	138-7474-03	1	Screen-Cooler	16	144-0518	1	Decal-Service, Gm3200
4	283-68	2	Pin-Clevis				

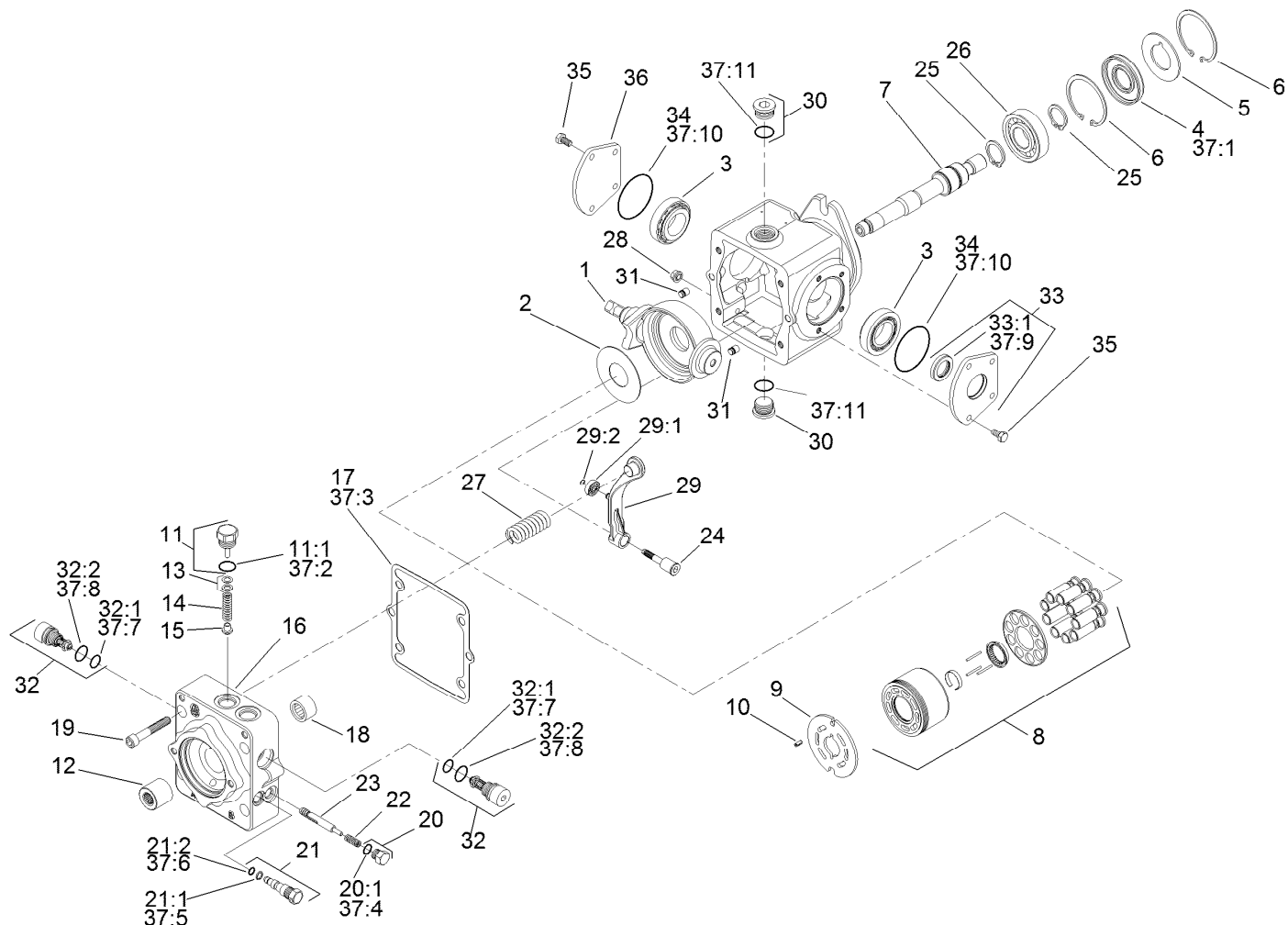
● Not illustrated

■ Not serviced separately



Hydraulic PTO Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	138-0305	1	Variable Piston Pump ASM	20	144-0521SP	1	Driveshaft ASM
2	139-6257	1	Pulley-3/3V	21	144-0452	6	Screw-Hex Socket
3	139-6258	1	Stubshaft-3/3V	22	140-3091	1	Idler Pivot ASM
4	139-6165	1	Clutch	23	3290-378	2	Tie-Cable
5	139-6259	1	Belt-3/3V	24	131-8591	2	Screw-HSH
6	138-0690	8	Screw-HH	26	140-6179	1	Idler Arm ASM
7	1-803022	2	Screw-Set	26:2	93-4510	2	Bushing-Caster
8	100-6116	2	Screw-HHF	27	32120-84	1	Ring-Snap, External
9	99-5107	2	Nut-Lock	28	140-3102	1	Spring-Torsion
10	94-3645	1	Key	29	140-3101	1	Pulley-Flat
11	139-6238	1	Washer	30	108-3742	1	Screw-HHF
12	1-603610	2	Washer-Spring	31	104-8301	5	Nut-HF, NI
13	109-9761	1	Screw-HH	32	112-3977	1	Bolt-Shoulder
14	3256-23	2	Washer-Plain	33	302-40	1	Fitting-Grease, 90 DEG
15	322-6	2	Screw-HH	34	3234-42	3	Screw-HHF
16	1-807259	1	Key	35	139-6239	1	Washer
17	139-6278	1	Strap-Clutch Stop	38	80-6990	2	Washer-Hardened
18	65-9820	2	Spacer	39	32128-36	2	Nut-HF
19	104-8300	3	Nut-HF, NI	40	144-0532-0P	1	Strip-Steel, Spring



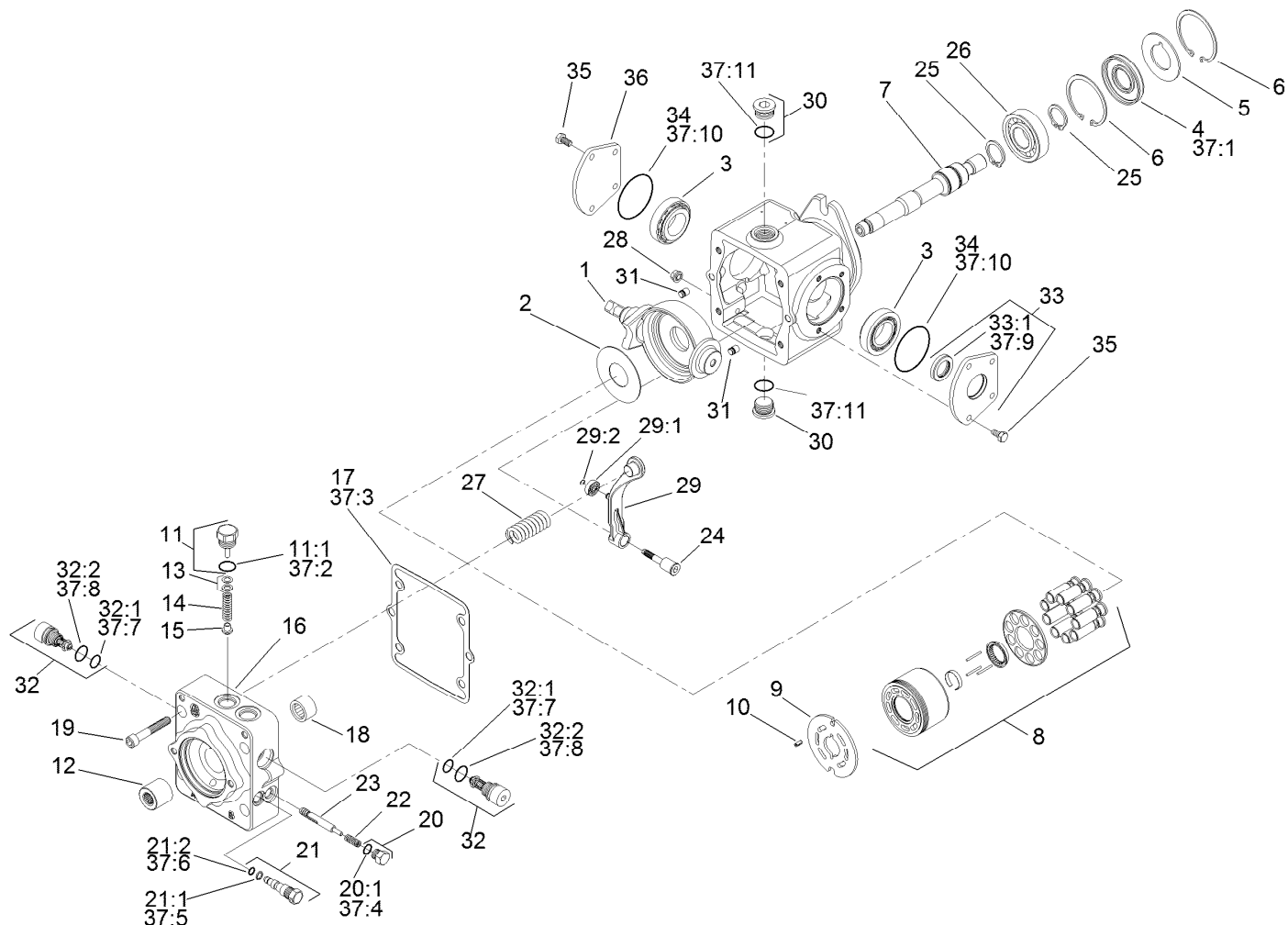
Variable Piston Pump Assembly No. 138-0305

Ref.	Part Number	Qty.	Description
1	140-3111	1	Plate-Swash
2	75-0400	1	Plate-Thrust
3	110-6483	2	Bearing Kit
4	110-6471	1	Seal-Lip
5	95-4400	1	Washer-Backup
6	131-8616	2	Ring-Retaining
7	140-3113	1	Shaft
8	110-6472	1	Cylinder Block Kit ASM
9	140-3114	1	Plate-Valve, CW
10	131-3800	1	Pin-Slotted
11	110-6486	1	Plug-Relief, Charge
11:1	28-3570	1	O-Ring
12	140-3122	1	Coupling
13	140-3115	1	Shim Kit
14	110-6474	1	Spring
15	110-6475	1	Poppet
16	115-8087	1	Cap-End
17	110-6476	1	Gasket-Cap, End

Ref.	Part Number	Qty.	Description
18	75-0500	1	Bearing-Needle
19	110-6489	4	Screw
20	94-9415	2	Plug ASM
20:1		1	O-Ring ■
21	107-4364	1	Bypass Valve ASM
21:1	25-2630	1	Ring-Back Up
21:2	110-6498	1	O-Ring
22	140-3116	2	Spring
23	110-6492	1	Spool-Loop, Flush
24	110-6493	1	Pivot-Return, Neutral
25	125-5280	2	Ring-Retaining
26	75-0460	1	Bearing-Ball
27	140-3117	1	Spring-Neutral Return
28	110-6496	1	Nut-Seal
29	110-6497	1	Neutral Return Arm ASM
29:1	110-6494	1	Bearing-Cam
29:2	110-3056	1	Ring-Retaining
30	69-3130	2	Plug

● Not illustrated

■ Not serviced separately



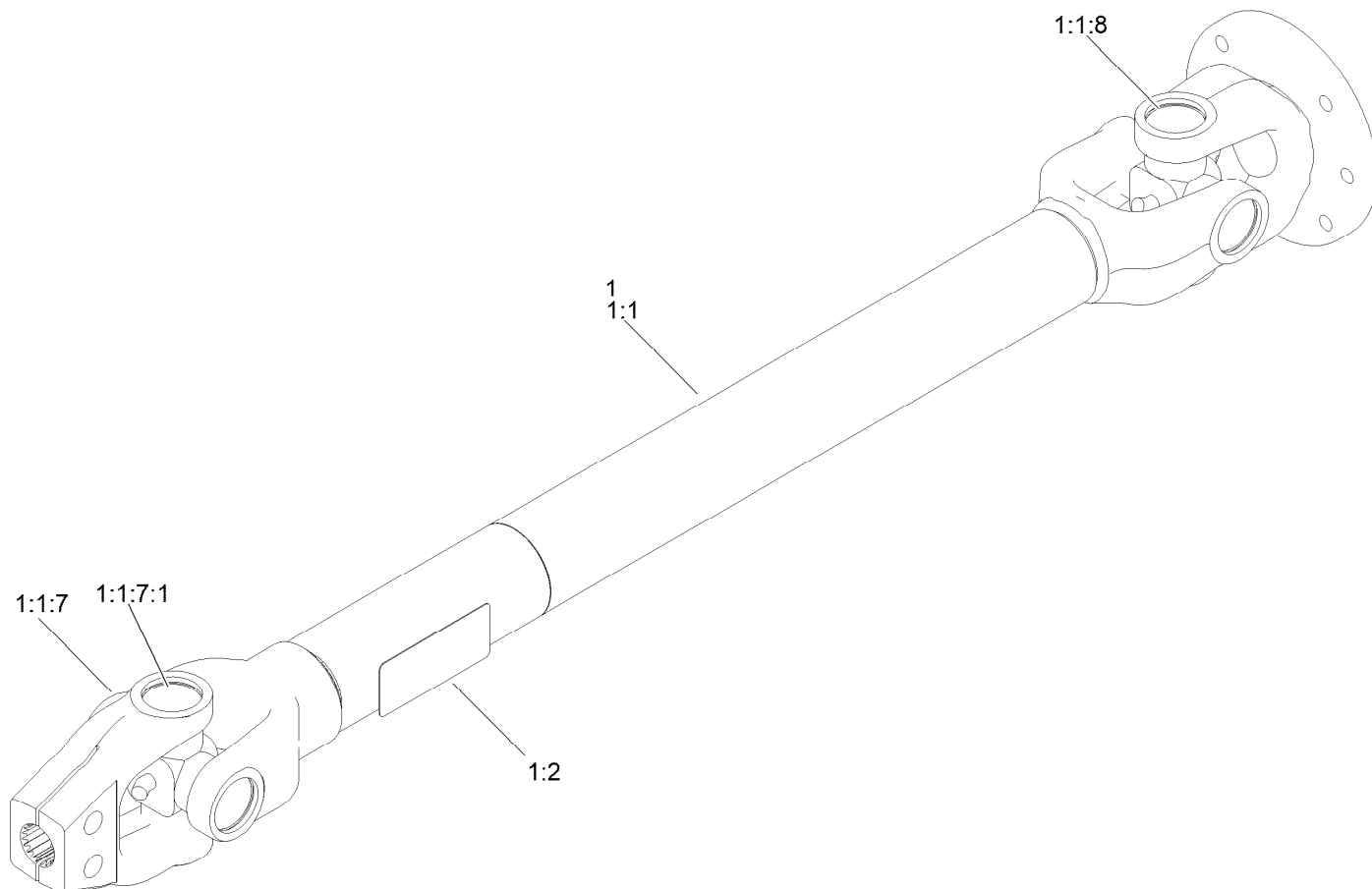
Variable Piston Pump Assembly No. 138-0305 (continued)

Ref.	Part Number	Qty.	Description
31	112-0158	2	Pin
32	110-6477	2	Valve-Relief
32:1	75-0240	1	O-Ring ●
32:2	84-0560	1	O-Ring ●
33	110-6499	1	Trunnion Cover ASM
33:1	110-6478	1	Seal-Lip
34	84-0430	2	O-Ring
35	112-0151	8	Screw
36	84-0440	1	Cover-Trunnion
37	110-6481	1	Seal Kit ●
37:1	110-6471	1	Seal-Lip

Ref.	Part Number	Qty.	Description
37:2	28-3570	1	O-Ring
37:3	110-6476	1	Gasket-Cap, End
37:4	131-8631	2	O-Ring
37:5	25-2630	1	Ring-Back Up
37:6	110-6498	1	O-Ring
37:7	75-0240	2	O-Ring
37:8	84-0560	2	O-Ring
37:9	110-6478	1	Seal-Lip
37:10	84-0430	2	O-Ring
37:11	131-8614	2	O-Ring

● Not illustrated

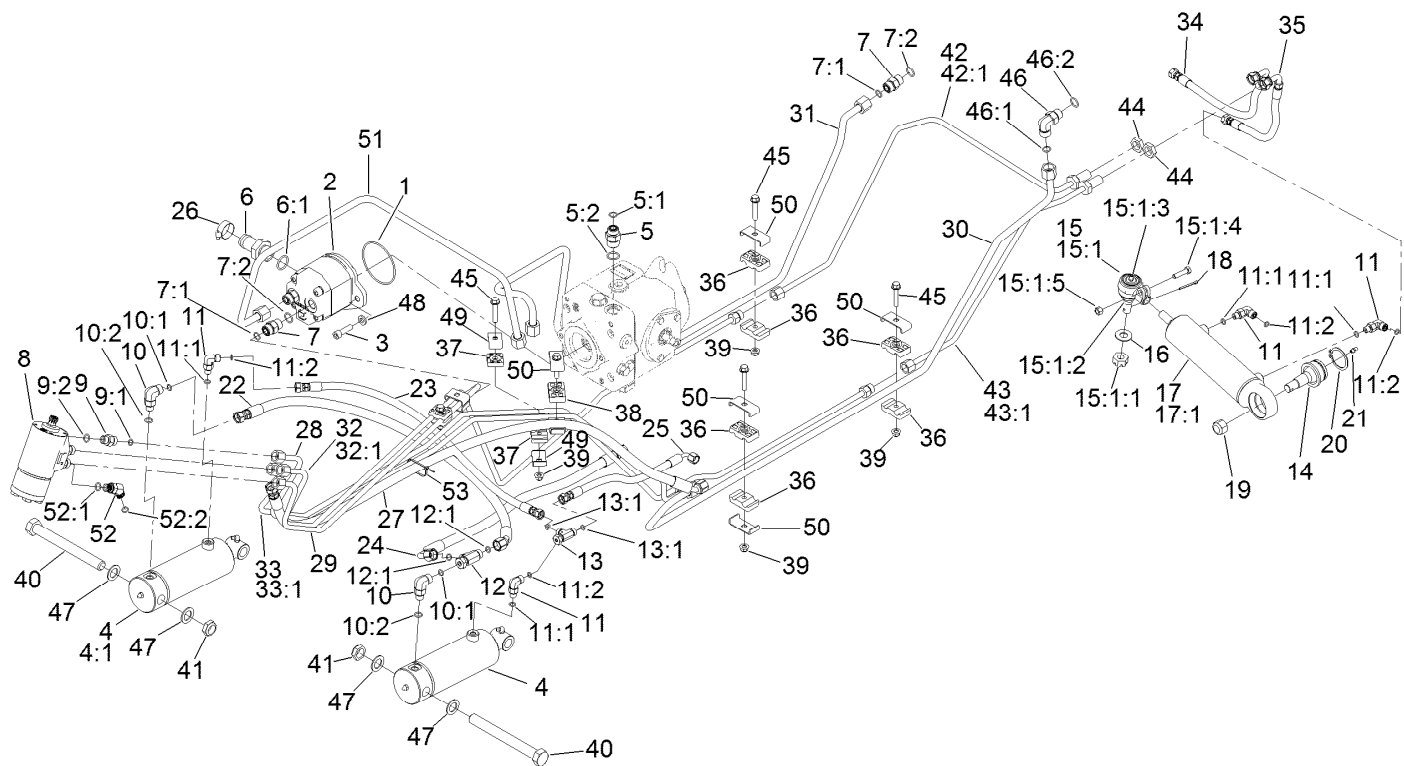
■ Not serviced separately



Driveshaft Assembly No. 144-0521SP

Ref.	Part Number	Qty.	Description
1		1	Driveshaft ASM ●
1:1		1	Shaft-Drive, Jdl ●
1:1:7		1	Yoke-Splined W/Cross Joint ●
1:1:7:1	144-0550	1	Bearing-Cross Joint
1:1:8	144-0550	1	Bearing-Cross Joint
1:2	139-6304	1	Decal-Danger, Entanglement

● Not serviced separately



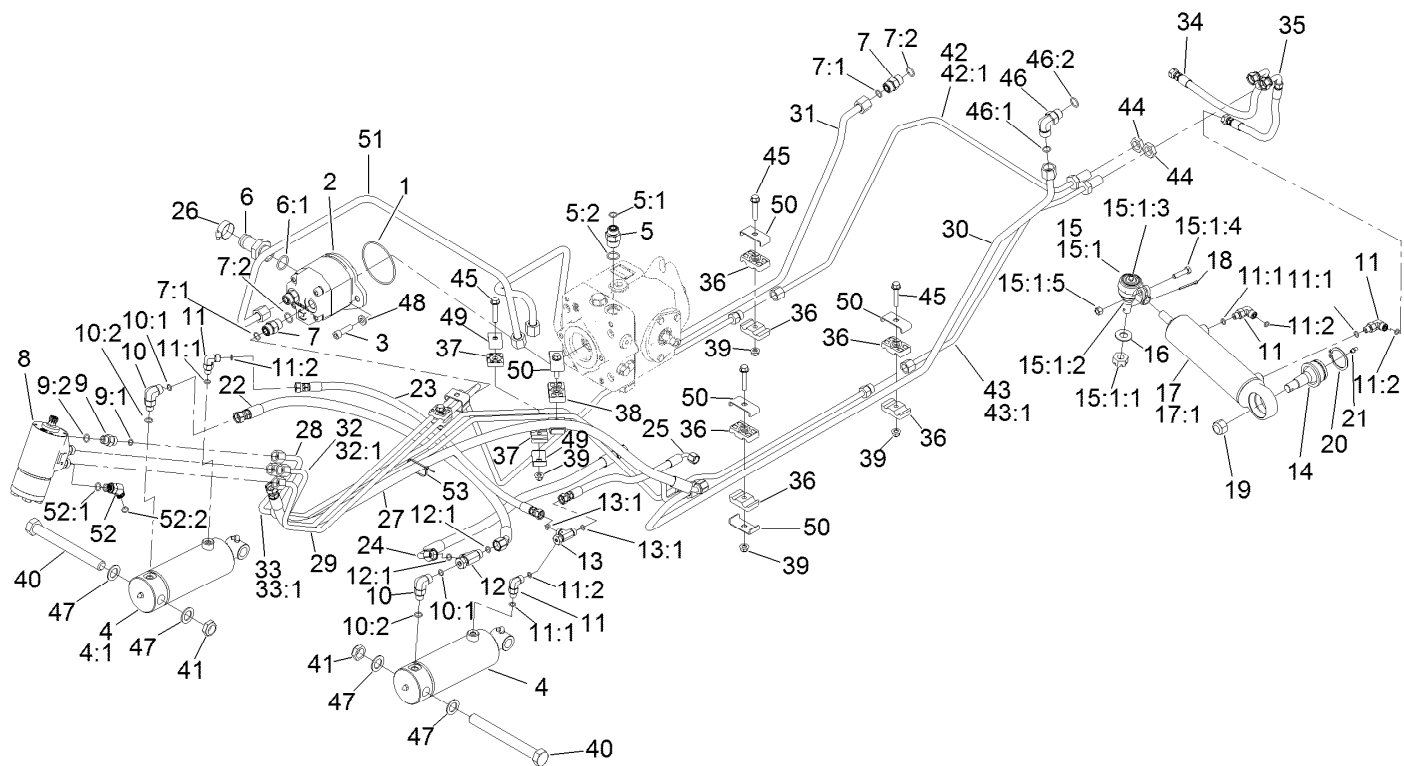
Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	237-161	1	O-Ring
2	138-0321	1	Pump-Gear
3	3274-1	2	Screw-HSH
4	139-0854	2	Cylinder-Hydraulic
4:1	140-3110	1	Kit-Seal ●
5	340-6	1	Fitting-Straight
5:1	237-30	1	O-Ring
5:2	237-80	1	O-Ring
6	99-3017	1	Fitting
6:1	237-81	1	O-Ring
7	340-4	3	Fitting-Straight
7:1	237-30	1	O-Ring
7:2	237-79	1	O-Ring
8	114-8119	1	Steering Valve ASM
9	340-2	4	Fitting-Straight
9:1	237-22	1	O-Ring
9:2	237-42	1	O-Ring
10	340-77	2	Fitting-Elbow, 90 DEG

Ref.	Part Number	Qty.	Description
10:1	237-22	1	O-Ring
10:2	237-42	1	O-Ring
11	340-132	4	Fitting-Elbow, 90 DEG
11:1	237-78	1	O-Ring
11:2	237-21	1	O-Ring
12	340-115	1	Fitting-Tee
12:1	237-22	2	O-Ring ●
13	340-151	1	Fitting-Tee
13:1	237-21	2	O-Ring
14	106-6774	1	Joint-Ball
15	106-6895-03	1	Ball Joint ASM
15:1		1	Joint-Ball ■
15:1:1	32136-13	1	Nut-SHH
15:1:2	106-6896	1	Seal
15:1:3	302-5	1	Fitting-Grease
15:1:4	3210-7	1	Screw-HH
15:1:5	32152-5	1	Nut-Hex
16	69-8980	1	Washer

● Not illustrated

■ Not serviced separately



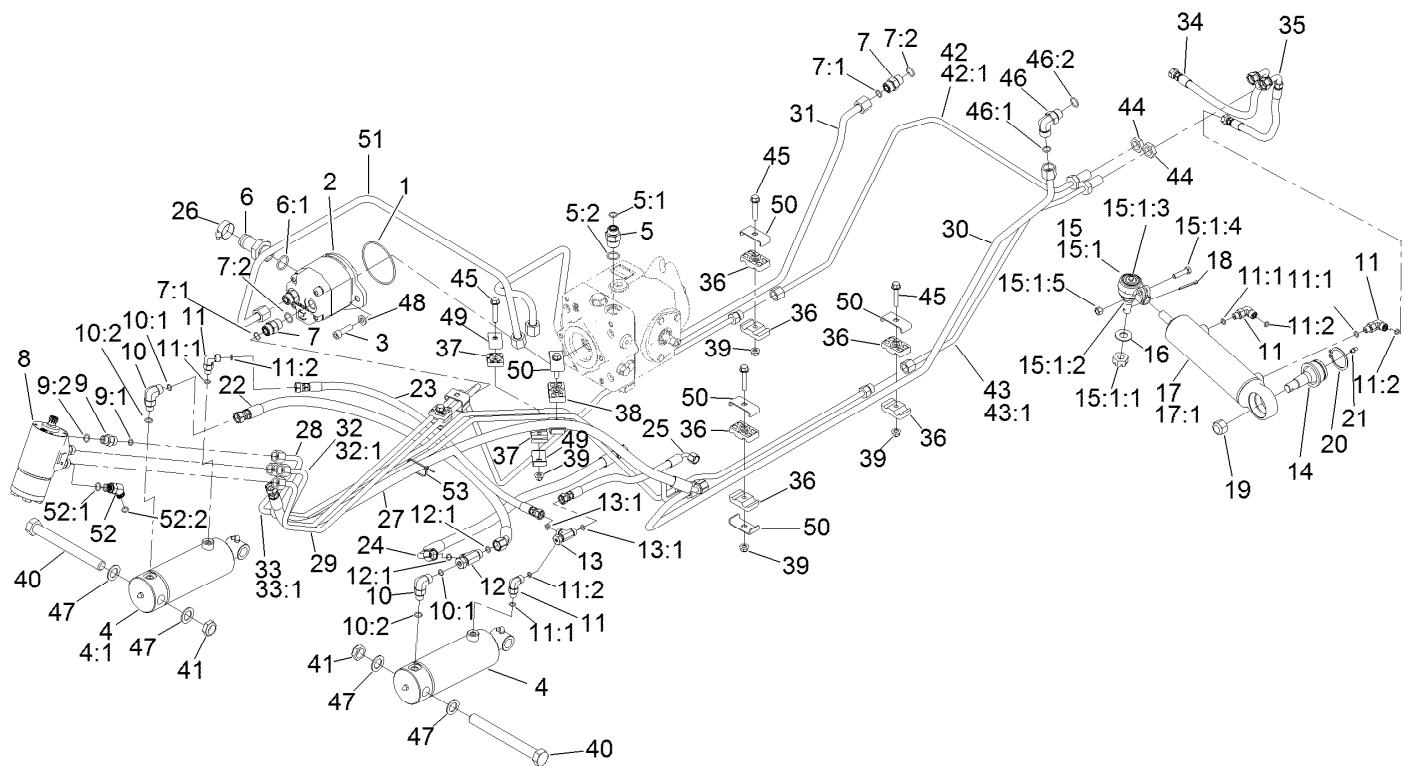
Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
17	139-6277	1	Steering Cylinder
17:1	140-3120	1	Kit-Seal ●
18	3272-12	1	Pin-Cotter
19	3220-6	2	Nut-Jam
20	32151-104	1	Ring-Retaining, External
21	302-5	1	Fitting-Grease
22	137-5844	1	Hose ASM
23	137-5845	1	Hose ASM
24	137-5846	1	Hose ASM
25	137-5847	1	Hose ASM
26	2412-34	1	Clamp-Hose
27	140-3097	1	Hose ASM
28	138-0331	1	Hydraulic Tube ASM
29	138-0332	1	Hydraulic Tube ASM
30	138-7448	1	Hydraulic Tube ASM
31	138-7447	1	Hydraulic Tube ASM
32	138-0333	1	Hydraulic Tube ASM
32:1	237-22	1	O-Ring

Ref.	Part Number	Qty.	Description
33	138-0336	1	Hydraulic Tube ASM
33:1	237-22	1	O-Ring
34	115-0383	1	Hose ASM
35	137-2584	1	Hose ASM
36	56-7972	8	Clamp-Tube
37	56-7973	4	Clamp-Tube
38	56-7970	2	Clamp-Tube
39	104-8300	7	Nut-HF, NI
40	328-23	2	Screw-HH
41	HDW02059	2	Nut-Hex
42	138-0343	1	Hydraulic Tube ASM
42:1	237-22	1	O-Ring
43	138-0344	1	Hydraulic Tube ASM
43:1	237-22	1	O-Ring
44	340-70	2	Nut-Lock
45	3230-5	7	Bolt-CARR
46	340-98	1	Fitting-Elbow, 90 DEG
46:1	237-79	1	O-Ring

● Not illustrated

■ Not serviced separately



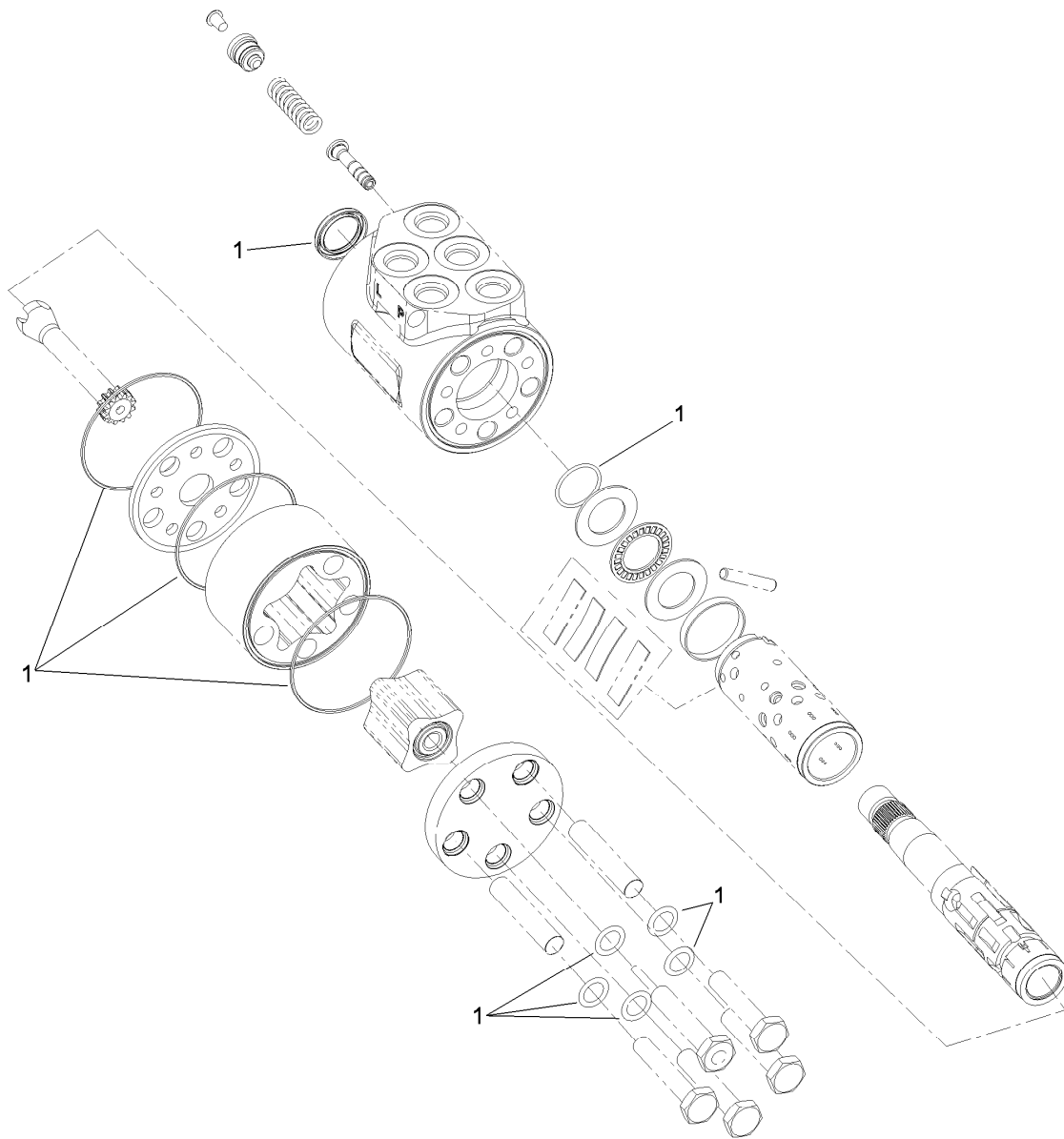
Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
46:2	237-30	1	O-Ring
47	126-7888	4	Washer-Nylon
48	139-6293	2	Washer
49	119-1418	4	Plate-Clamp, Short
50	119-1419	8	Plate-Clamp

Ref.	Part Number	Qty.	Description
51	138-0342	1	Hydraulic Tube ASM
52	340-87	1	Fitting-Elbow, 45 DEG
52:1	237-22	1	O-Ring
52:2	237-42	1	O-Ring
53	3290-378	2	Tie-Cable

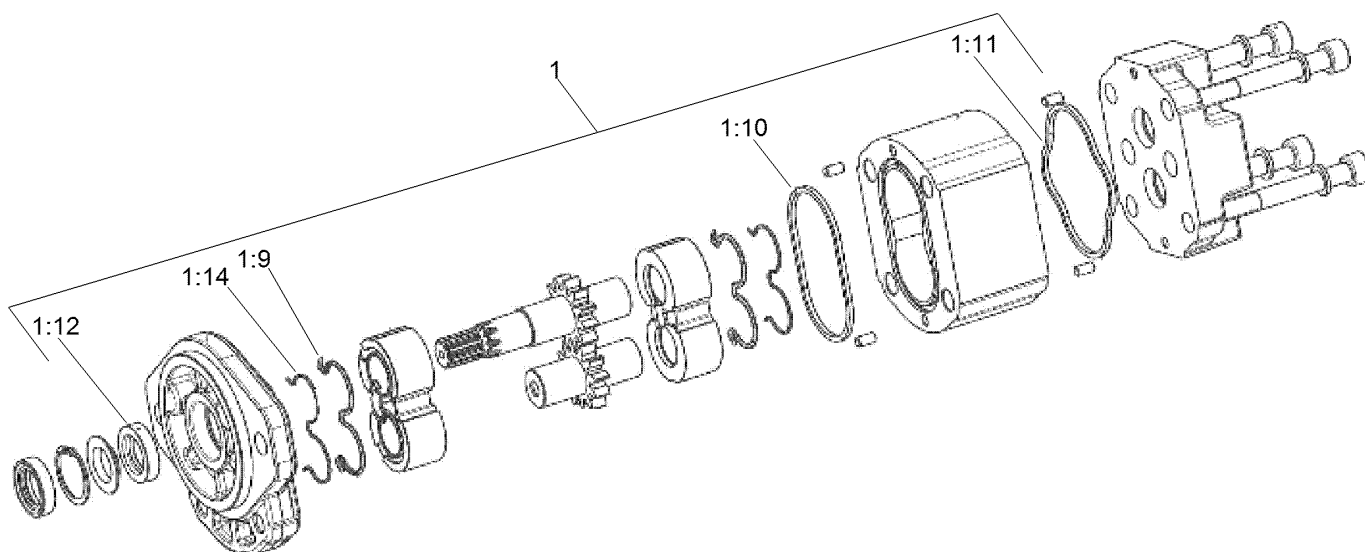
● Not illustrated

■ Not serviced separately



Steering Valve Assembly No. 114-8119

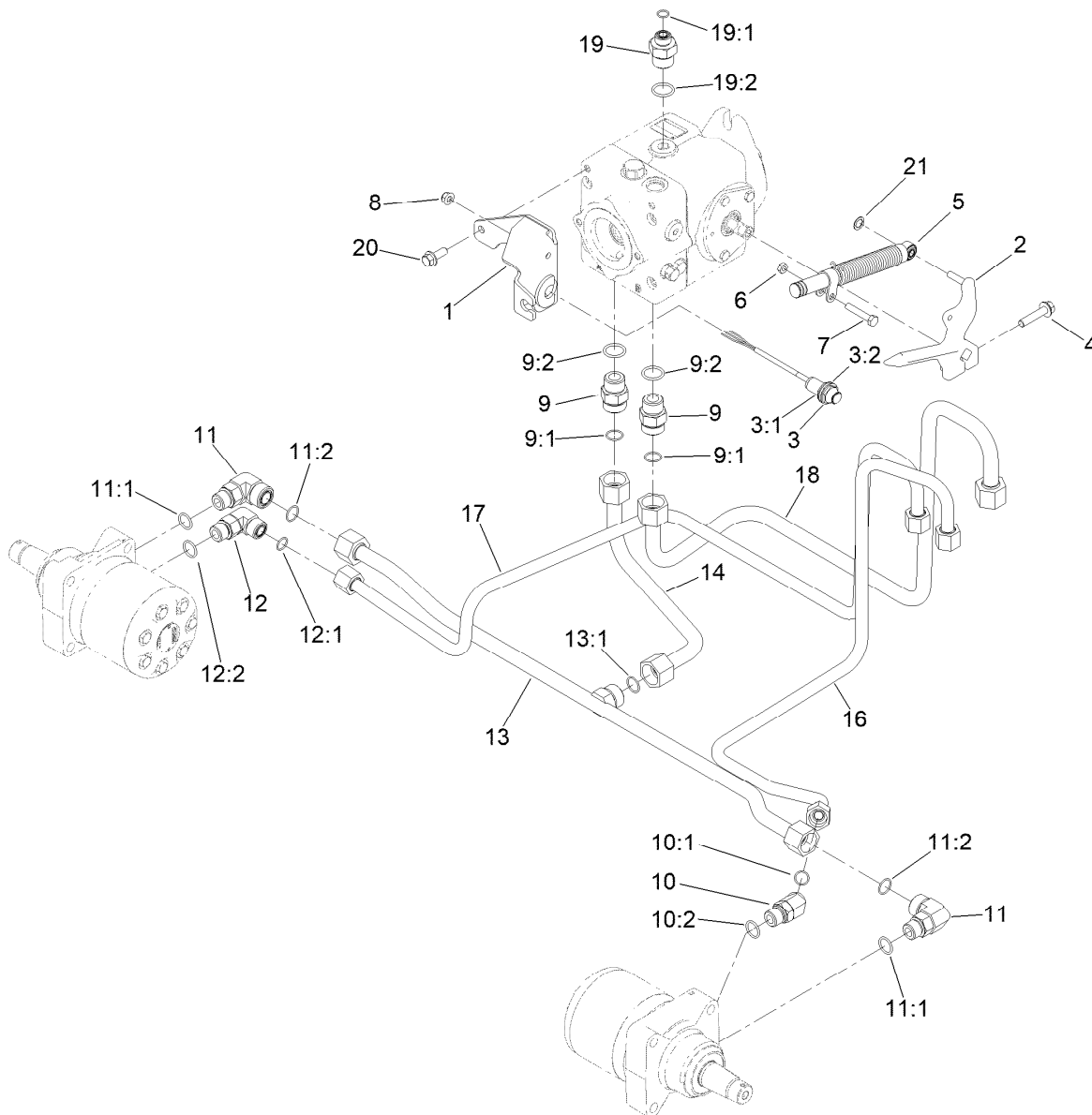
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	106-6716	1	Seal Kit



Gear Pump Assembly No. 138-0321

Ref.	Part Number	Qty.	Description
1	139-6299	1	Kit-Seal
1:9		1	Seal ●
1:10		1	Seal-Standard ●
1:11		1	Seal-Square ●
1:12		1	Seal-Shaft ●
1:14		1	Anti Extrusion ●

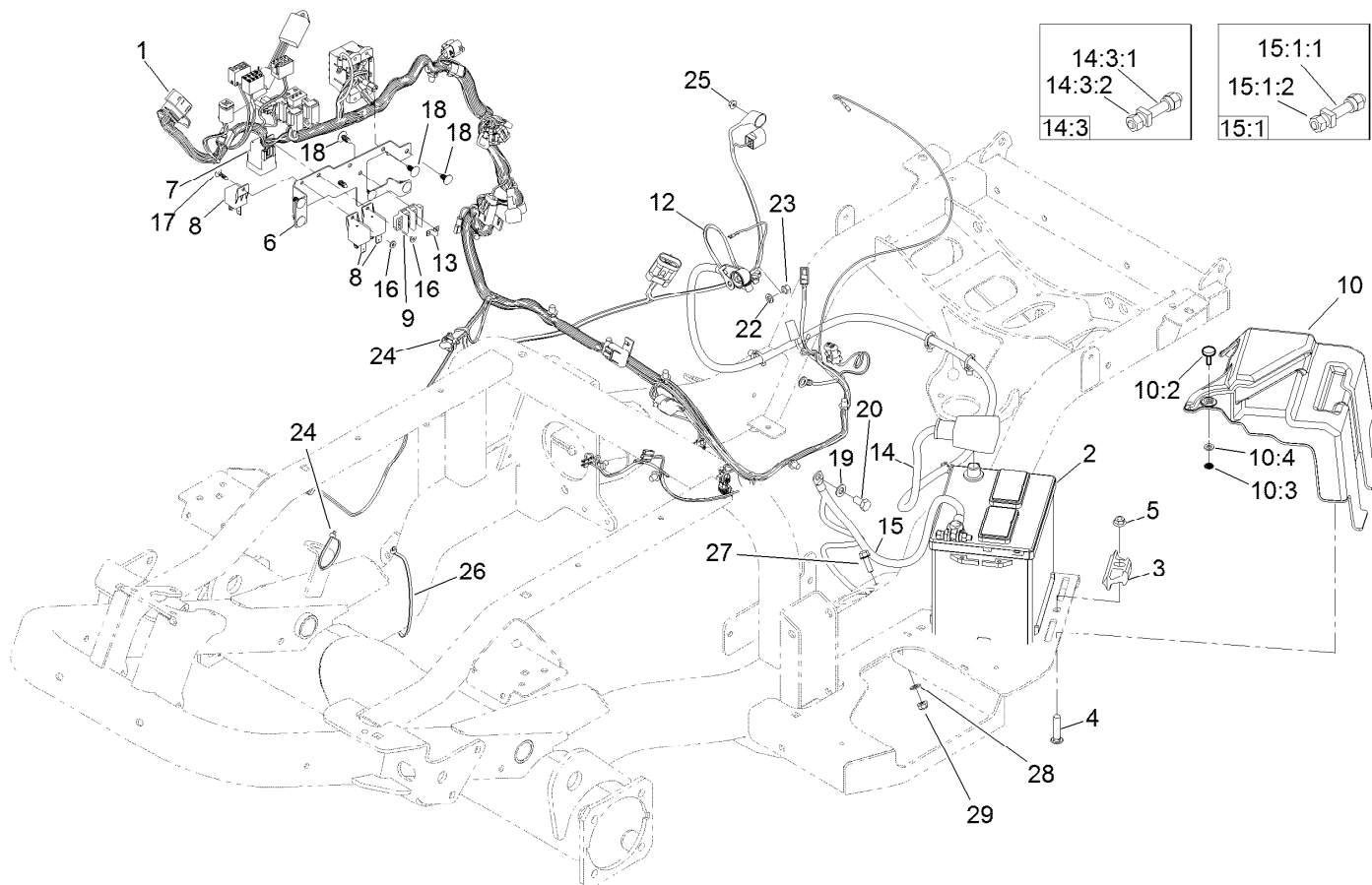
● Not serviced separately



Traction Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	139-6195-0P	1	Bracket-Cable Support [primed]
2	138-6378	1	Lever-Pump
3	115-5300	1	Proximity Switch ASM
3:1	117-3207	2	Nut-Hex
3:2	117-3208	2	Washer-Lock, Internal Tooth
4	3234-19	1	Screw-HHF
5	140-6248	1	Damper
6	3218-2	1	Nut-Hex Jam
7	322-10	1	Screw-HH
8	104-8300	1	Nut-HF, NI
9	340-9	2	Fitting-STR
9:1	237-58	1	O-Ring
9:2	237-81	1	O-Ring
10	340-14	1	Fitting-HYD, 45 DEG
10:1	237-65	1	O-Ring
10:2	237-80	1	O-Ring
11	340-16	2	Fitting-HYD, 90 DEG

Ref.	Part Number	Qty.	Description
11:1	237-80	1	O-Ring
11:2	237-58	1	O-Ring
12	340-17	1	Fitting-Elbow, 90 DEG
12:1	237-65	1	O-Ring
12:2	237-80	1	O-Ring
13	138-0340	1	Hydraulic Tube ASM
13:1	237-58	1	O-Ring
14	138-0341	1	Hydraulic Tube ASM
16	138-0345	1	Hydraulic Tube ASM
17	138-0346	1	Hydraulic Tube ASM
18	138-0339	1	Hydraulic Tube ASM
19	100-4240	1	Fitting-STR
19:1	237-30	1	O-Ring
19:2	237-81	1	O-Ring
20	3234-42	2	Screw-HHF
21	32151-72	1	Ring-Retaining



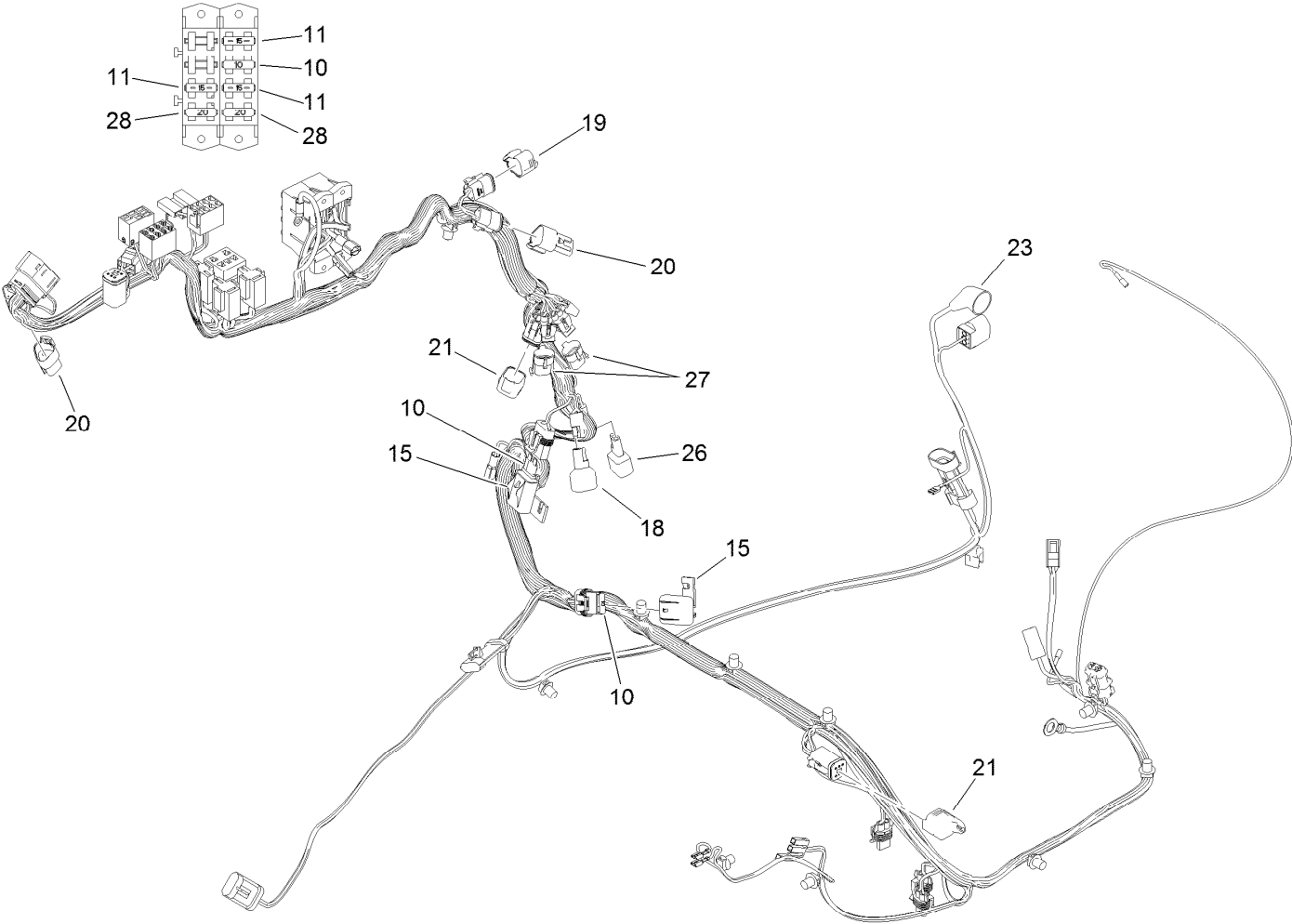
Electrical Assembly

Ref.	Part Number	Qty.	Description
1	122-1657	1	Harness-Wire
2	106-5187	1	Battery, 525 CCA W/O Electrolyte
3	138-6335	1	Retainer-Battery
4	3231-29	1	Screw-CARR
5	104-8301	1	Nut-HF, NI
6	138-7467-0P	1	Bracket-Electrical
7	99-7430	1	Relay-Mini
8	99-7435	3	Relay
9	42862	1	Block-Terminal, Ground
10	140-9010	1	Battery Cover ASM
10:2	140-9033	1	Knob-Stud
10:3	32115-15	1	Nut-Push
10:4	3256-22	1	Washer-Flat
12	99-3441	1	Harness-Wire, Fusible Link
13	42863	1	Strip-Jumper
14	122-1275	1	Positive Battery Cable ASM
14:3	112-9921	1	Bolt ASM ●
14:3:1	32180-107	1	Bolt-Clamp, Battery ●

Ref.	Part Number	Qty.	Description
14:3:2	32180-108	2	Nut-Clamp, Battery ●
15	122-1276	1	Negative Battery Cable ASM
15:1	112-9921	1	Bolt ASM ●
15:1:1	32180-107	1	Bolt-Clamp, Battery ●
15:1:2	32180-108	2	Nut-Clamp, Battery ●
16	3256-21	2	Washer-Flat
17	125-8067	2	Plug-Plastic
18	117-2382	8	Plug-Plastic
19	33095-00	1	Washer-Flat
20	33115-020	1	Screw-HH
22	3253-4	1	Washer-Lock
23	33014-00	1	Nut-Hex
24	3290-378	2	Tie-Cable
25	33003-00	1	Nut-HF
26	3290-379	1	Tie-Cable
27	3234-29	1	Screw-HHF
28	120-9683	1	Washer-Plain
29	104-8300	1	Nut-HF, NI

● Not illustrated

Wire Harness Assembly No. 122-1657

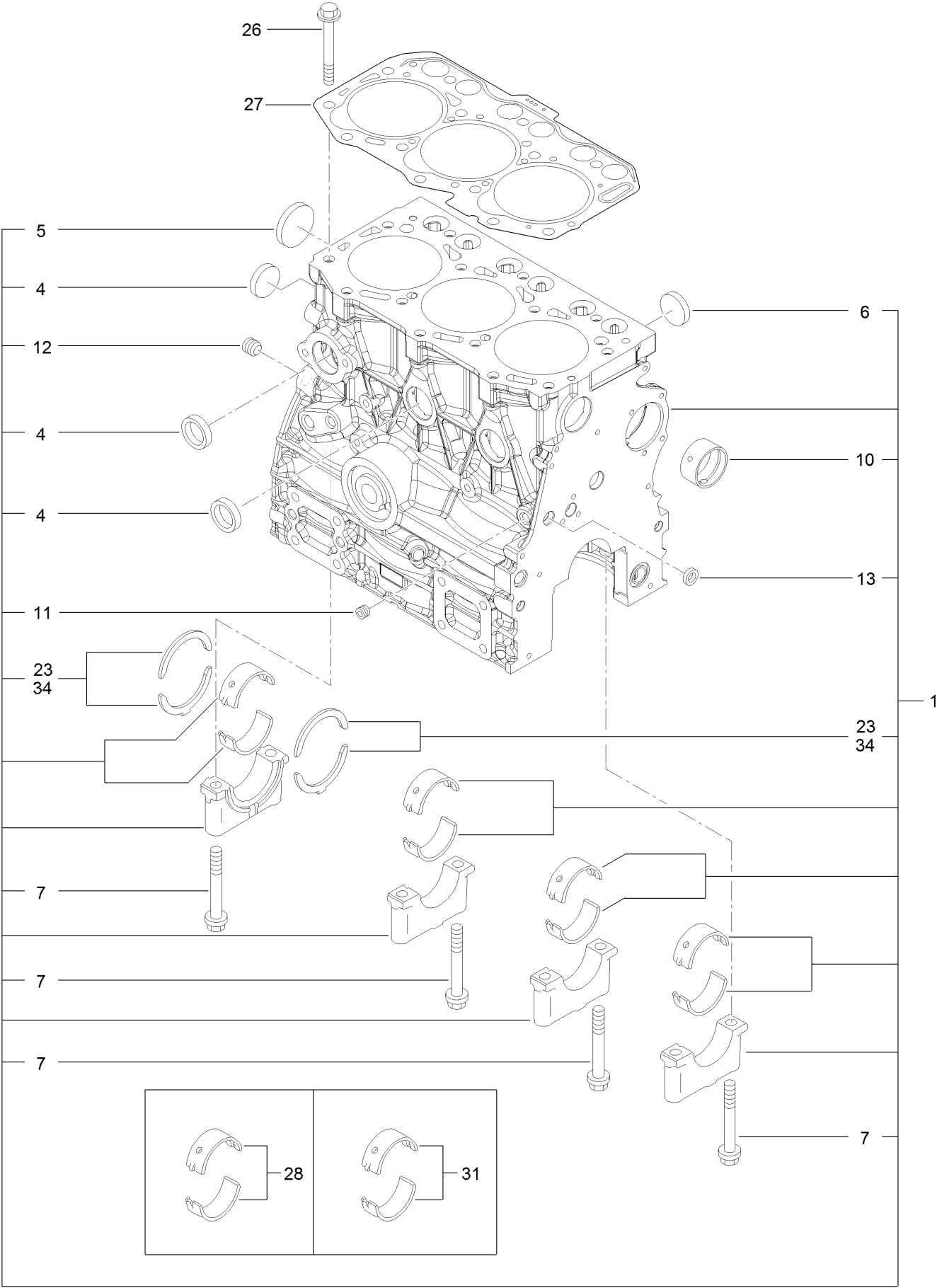


Wire Harness Assembly No. 122-1657 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
10	218-578	3	Fuse-Blade, 10 Amp
11	109355	3	Fuse-Blade, 15 Amp
15	32180-019	2	Cover-Fuse, Single
18	108-9493	1	Diode-Tvs
19	32180-089	1	Cap-Plug, 3 Way
20	32180-043	2	Resistor-120 Ohm

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
21	32180-156	2	Cap-Plug, 6 Way
23	32180-017	1	Insulator-Terminal, Black
26	104-4022	1	Resistor-75 Ohm
27	32180-056	2	Cap
28	109101	2	Fuse-Blade, 20 Amp

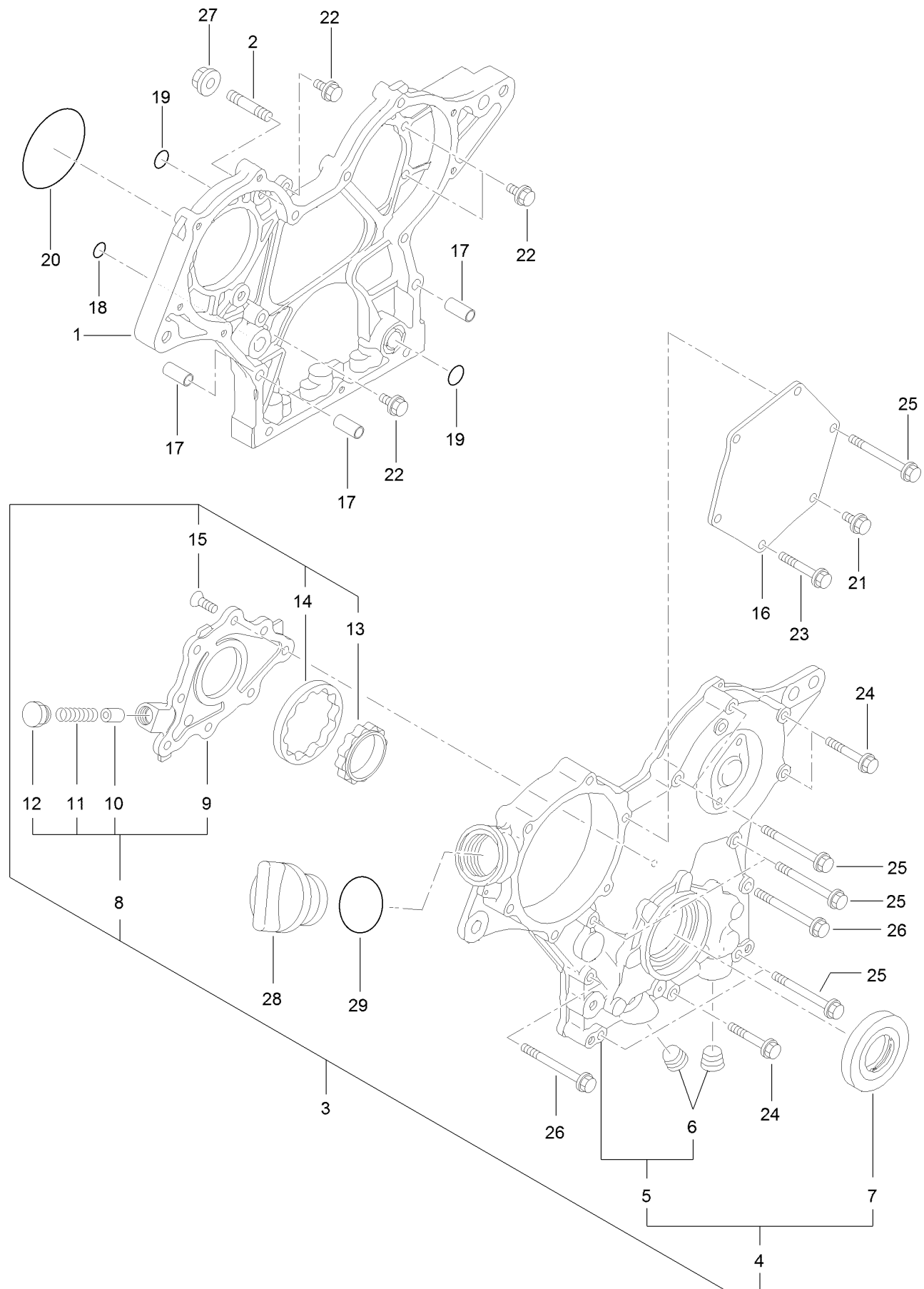
Cylinder Block Assembly



Cylinder Block Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4030	1	Cylinder Block ASM	13	125-7237	1	Plug
4	135-4031	4	Plug-Cup	23	135-4036	2	Thrust Bearing ASM
5	135-4032	1	Plug-Dish	26	135-4037	14	Bolt-Head, Cylinder
6	135-4033	3	Plug-Cup	27	135-4038	1	Head Gasket Set
7	135-4034	8	Bolt-Cap	28	135-4039	1	Main Bearing ASM
10	135-4035	1	Bushing-Camshaft	31	135-4040	2	Main Bearing ASM
11	125-6969	1	Plug	34	135-4041	2	Bearing-Thrust
12	125-6973	1	Plug				

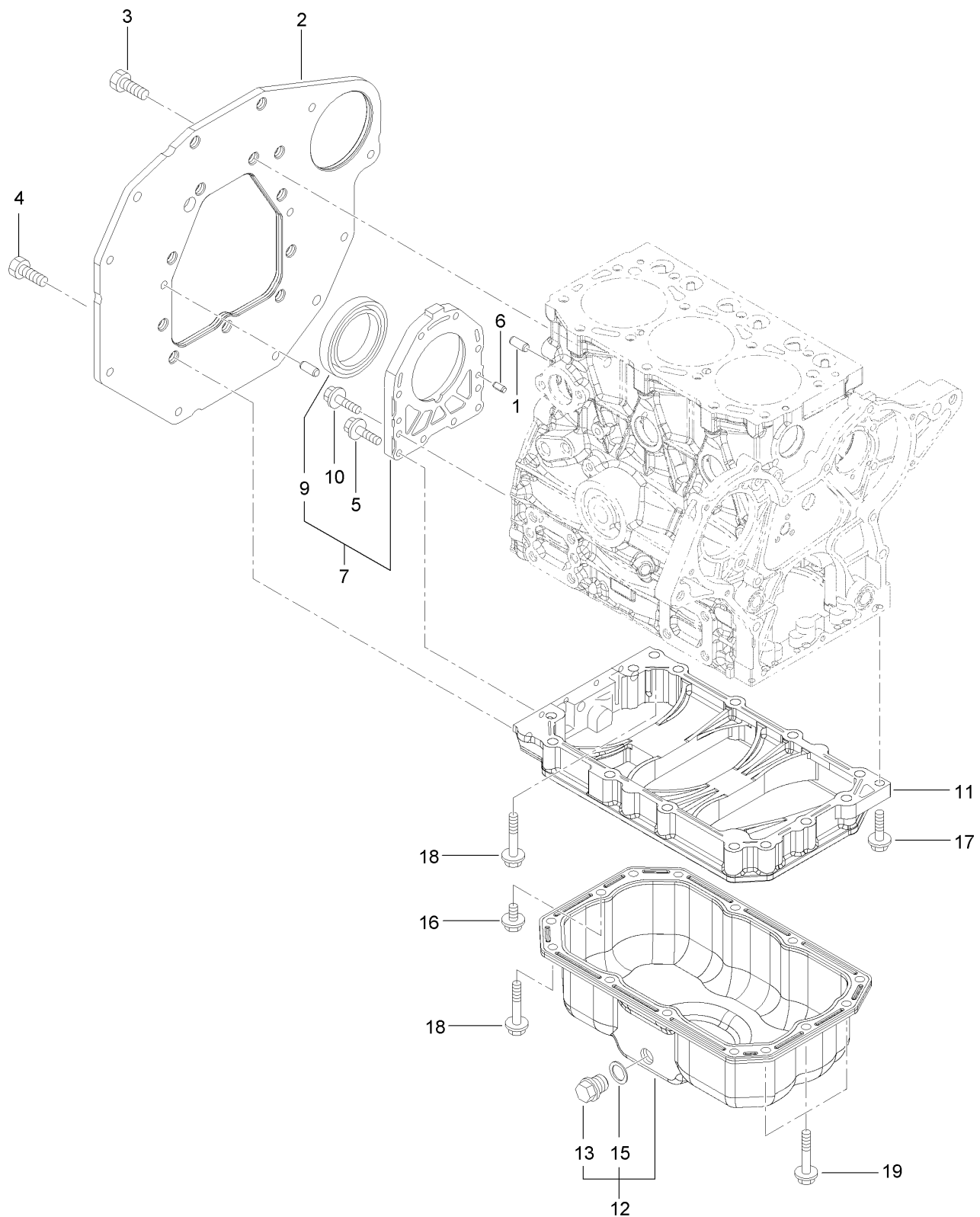
Gear Housing Assembly



Gear Housing Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4042	1	Case-Gear	16	135-4056	1	Cover-Pump
2	135-4043	3	Bolt-Stud	17	135-4057	4	Dowel-Pipe
3	135-4044	1	Gear Case Cover ASM	18	127-2973	1	O-Ring
4	135-4045	1	Gear Case Cover ASM	19	135-4058	3	O-Ring
5	135-4046	1	Cover-Case, Gear	20	125-6957	1	O-Ring
6	133-6798	2	Plug	21	125-7206	1	Bolt
7	135-4047	1	Seal-Oil	22	125-7208	4	Bolt
8	135-4048	1	Cover ASM	23	125-7211	4	Bolt
9	135-4049	1	Cover-Pump	24	125-7211	3	Bolt
10	135-4050	1	Valve-Relief	25	135-4059	7	Bolt
11	135-4051	1	Spring	26	136-8257	2	Bolt
12	135-4052	1	Plug	27	125-7229	3	Nut
13	135-4053	1	Rotor-Inner	28	125-6972	1	Cover-Filler
14	135-4054	1	Rotor-Outer	29	125-7197	1	O-Ring
15	135-4055	8	Screw				

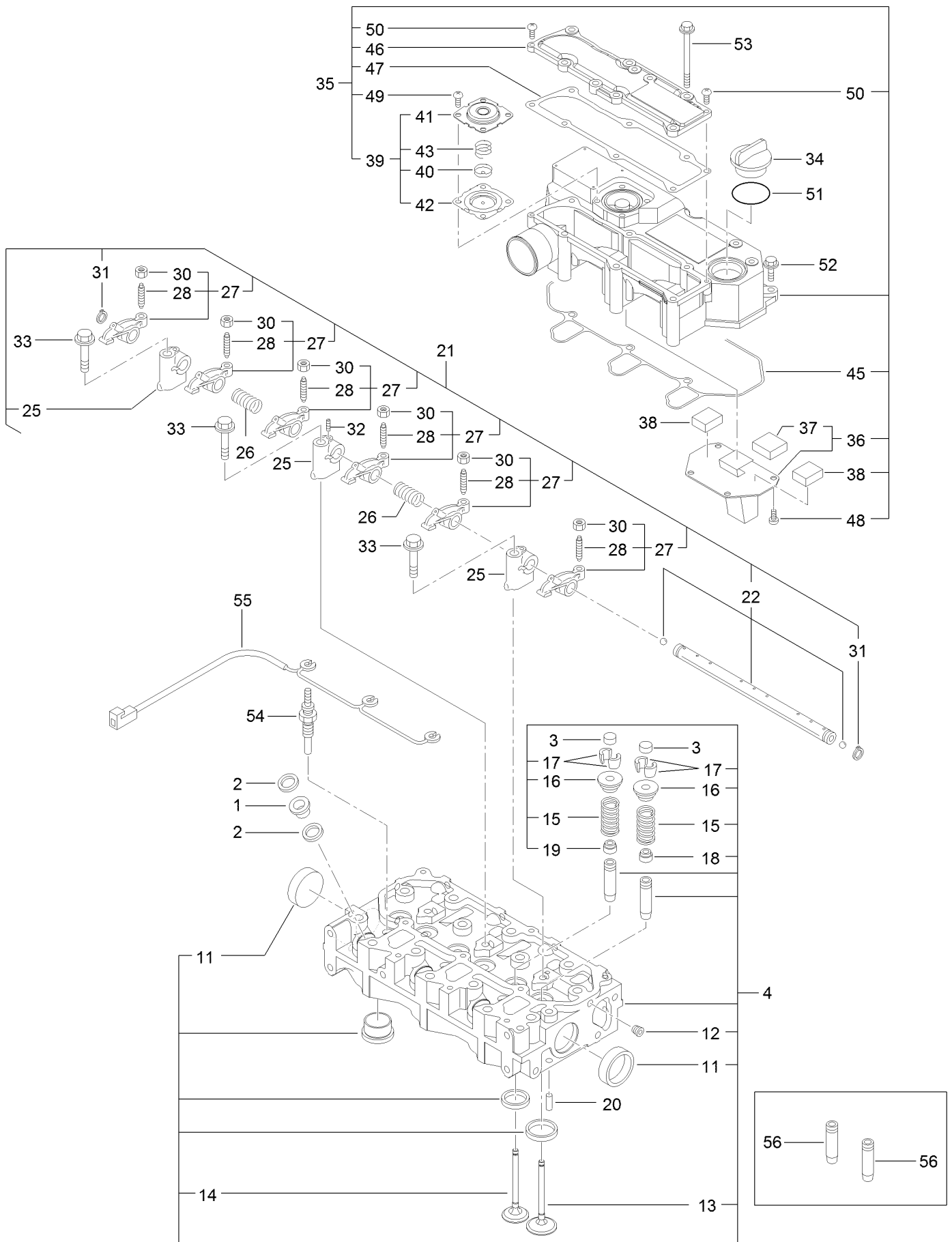
Mounting Flange and Oil Sump Assembly



Mounting Flange and Oil Sump Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-6995	2	Pin	11	135-4066	1	Spacer-Pan, Oil
2	140-7156	1	Flange-Mounting	12	134-1398	1	Oil Pan ASM
3	140-7181	9	Bolt	13	135-4068	1	Plug
4	125-7226	3	Bolt	15	136-8236	1	Washer-Seal
5	140-7152	4	Bolt	16	125-7212	1	Bolt
6	135-4062	2	Pin-Parallel	17	125-7216	1	Bolt
7	140-7160	1	Case Oil Seal ASM	18	125-7219	11	Bolt
9	135-4064	1	Seal-Oil	19	125-7220	3	Bolt
10	135-4065	6	Bolt				

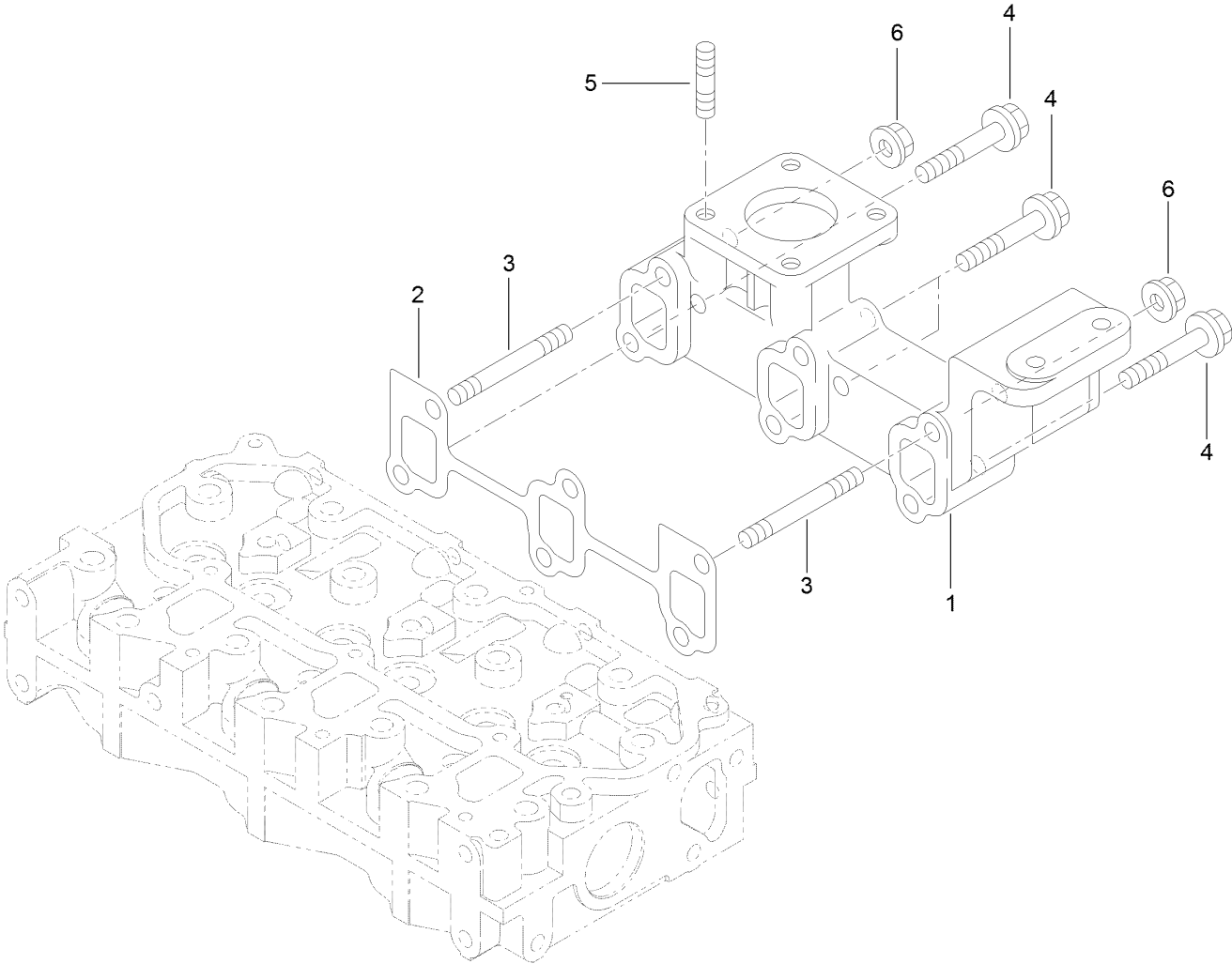
Cylinder Head and Cover Assembly



Cylinder Head and Cover Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4069	3	Protector-Nozzle	34	125-6972	1	Cover-Filler
2	135-4070	6	Gasket-Nozzle	35	134-1402	1	Cylinder Head Cover ASM
3	135-4071	6	Cap-Valve	36	135-4085	1	Plate-Baffle
4	134-4001	1	Cylinder Head ASM	37	135-4086	1	Baffle-Breather
11	135-4073	2	Plug-Cup	38	135-4086	2	Baffle-Breather
12	133-6797	1	Plug	39	135-4088	1	Diaphragm ASM
13	135-4074	3	Valve-Suction	40	135-4089	1	Plate-Diaphragm
14	135-4075	3	Valve-Exhaust	41	135-4090	1	Cover-Diaphragm
15	135-4076	6	Spring-Valve	42	135-4091	1	Diaphragm
16	125-7054	6	Retainer	43	135-4092	1	Spring-Diaphragm
17	125-6914	12	Cotter	45	135-4093	1	Gasket-Cover, Cylinder Head
18	125-6915	3	Seal-Stem, Valve	46	134-1401	1	Cover-Head, Cylinder
19	125-6916	3	Seal-Stem, Valve	47	135-4095	1	Gasket
20	125-7184	2	Pin-Spring	48	125-7186	4	Screw
21	135-4077	1	Rocker Support ASM	49	125-7186	4	Screw
22	135-4078	1	Rocker Shaft ASM	50	127-3168	2	Screw
25	135-4079	3	Support-Arm, Rocker	51	125-7197	1	O-Ring
26	135-4080	2	Spring-Rocker	52	125-7209	3	Bolt
27	135-4081	6	Rocker Arm ASM	53	135-4096	6	Bolt
28	125-7013	6	Screw-Adjust, Valve	54	135-4291	3	Plug-Glow
30	125-7014	6	Nut	55	134-1443	1	Connector-Plug, Glow
31	135-7082	2	Ring	56	125-6917	6	Guide
32	135-4083	1	Screw				
33	125-7218	3	Bolt				

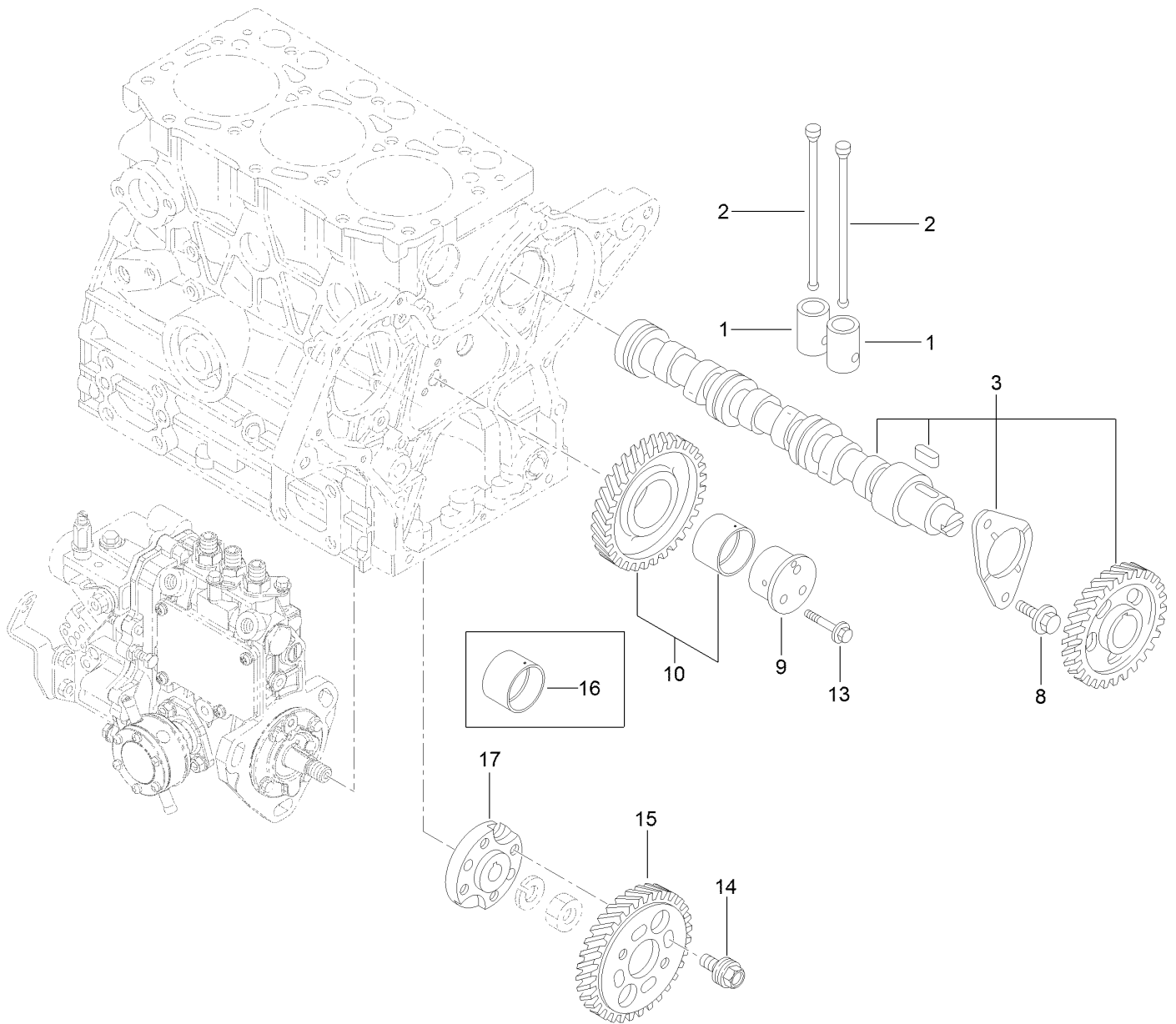
Exhaust Manifold Assembly



Exhaust Manifold Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7161	1	Manifold-Exhaust	4	133-6714	4	Bolt
2	135-4107	1	Gasket-Manifold, Exhaust	5	125-6906	4	Stud
3	134-1404	2	Bolt-Stud	6	125-7229	2	Nut

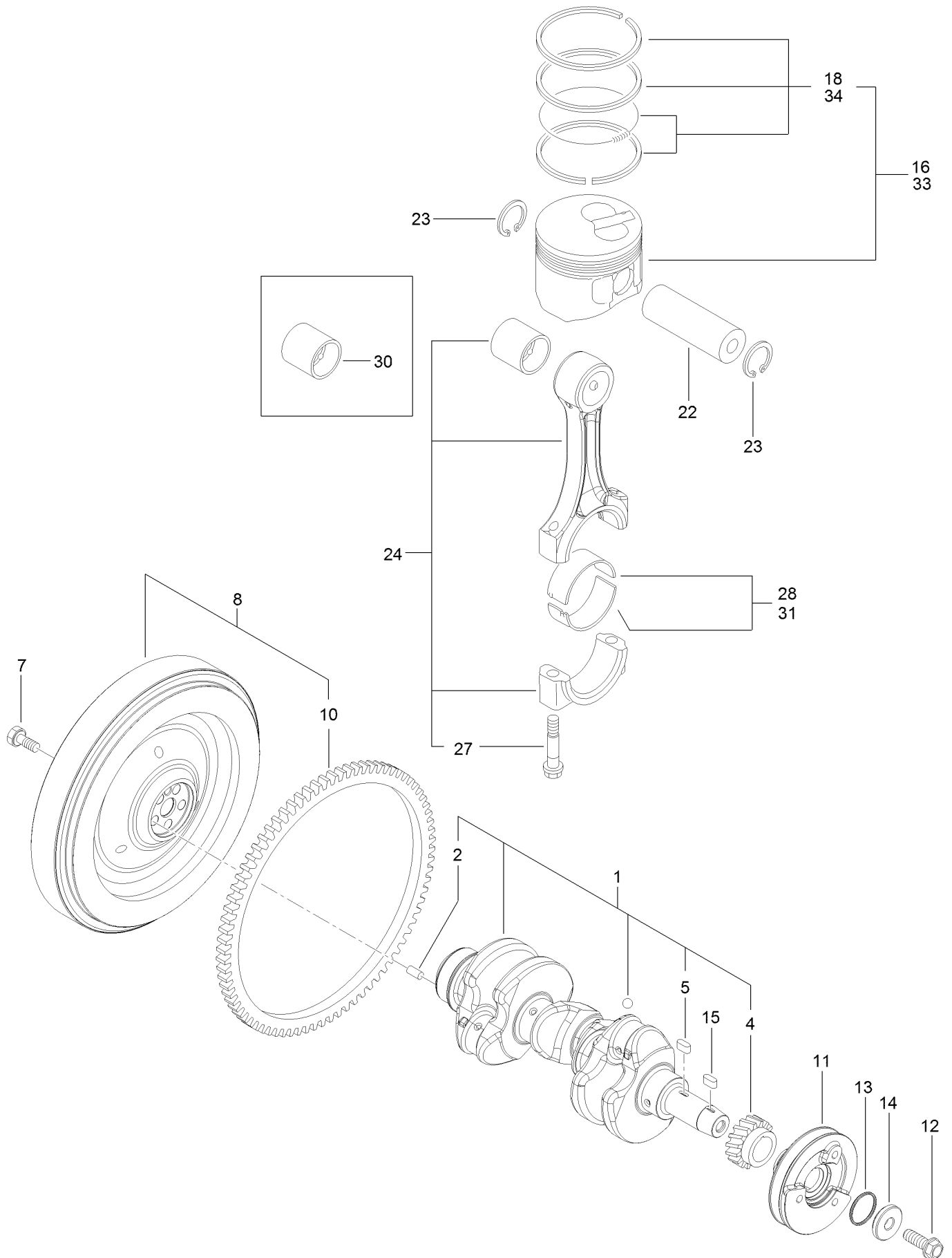
Camshaft and Driving Gear Assembly



Camshaft and Driving Gear Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4108	6	Tappet	13	135-4147	3	Bolt
2	135-4109	6	Push-Rod	14	125-7020	4	Bolt
3	135-4110	1	Camshaft ASM	15	135-4148	1	Gear-Pump
8	125-7206	2	Bolt	16	135-4149	1	Bushing-Gear, Idle
9	135-4145	1	Shaft-Idle	17	135-4150	1	Flange
10	135-4146	1	Idle Gear ASM				

Crankshaft and Piston Assembly

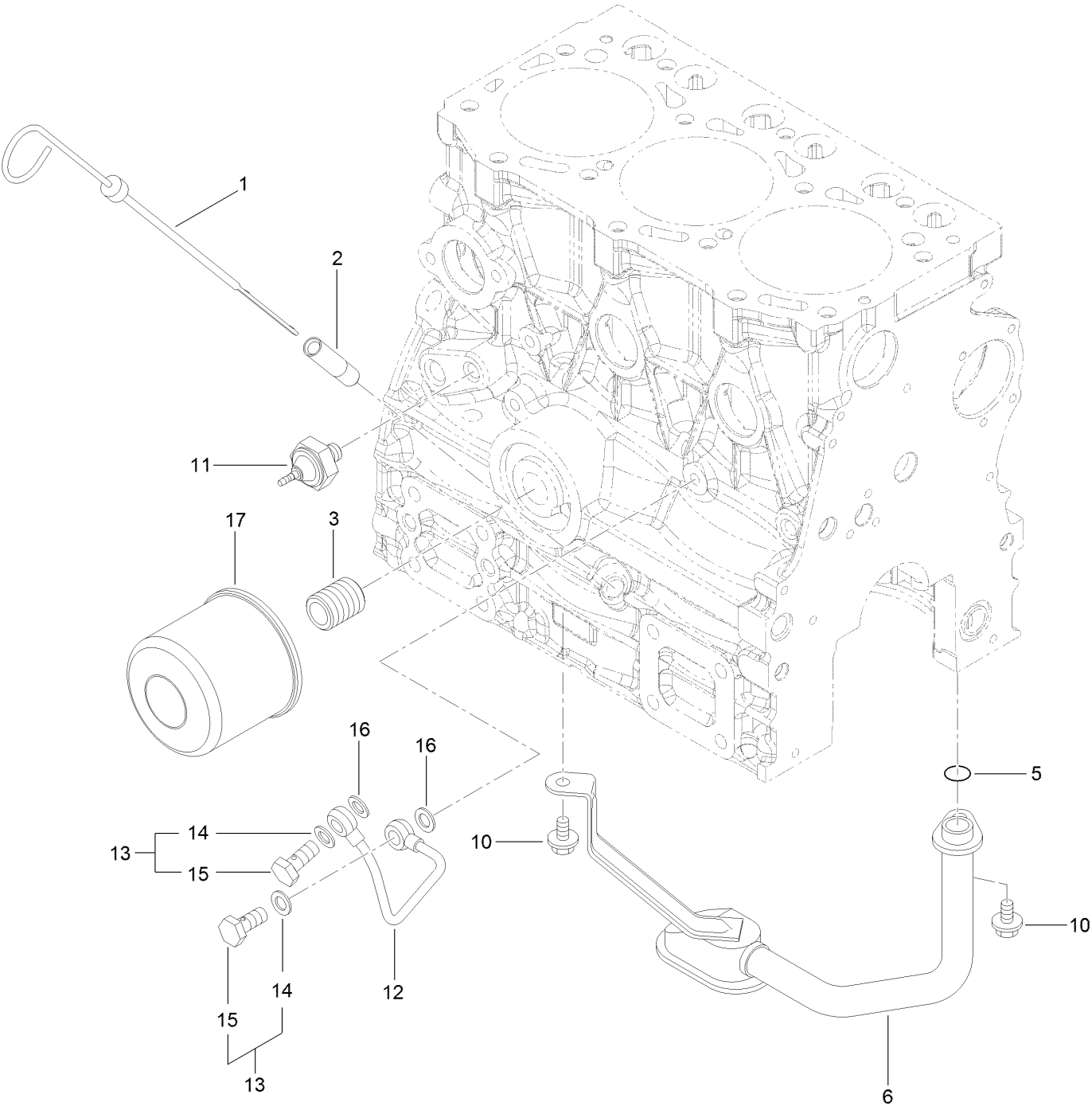


Crankshaft and Piston Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4152	1	Crankshaft ASM
2	125-6995	1	Pin
4	135-4153	1	Gear-Crankshaft
5	135-4154	1	Key
7	125-6951	5	Bolt
8	140-7164	1	Flywheel ASM
10	125-6943	1	Gear
11	135-4158	1	V-Pulley, Crankshaft
12	135-4159	1	Bolt-Flange
13	134-4004	1	Packing-Washer
14	135-4161	1	Washer
15	135-4154	1	Key

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
16	135-4163	3	Piston ASM
18	135-4164	3	Ring ASM
22	135-4165	3	Pin-Piston
23	135-4166	6	Ring
24	134-4005	3	Connecting Rod ASM
27	135-4168	6	Bolt-Rod, Connecting
28	135-4169	3	Bearing-Pin, Crank
30	134-4006	3	Bushing-Pin, Piston
31	135-4171	3	Bearing-Pin (0.25)
33	134-4007	3	Piston ASM (0.25 Os)
34	135-4173	3	Ring ASM

Lubrication and Oil System Assembly

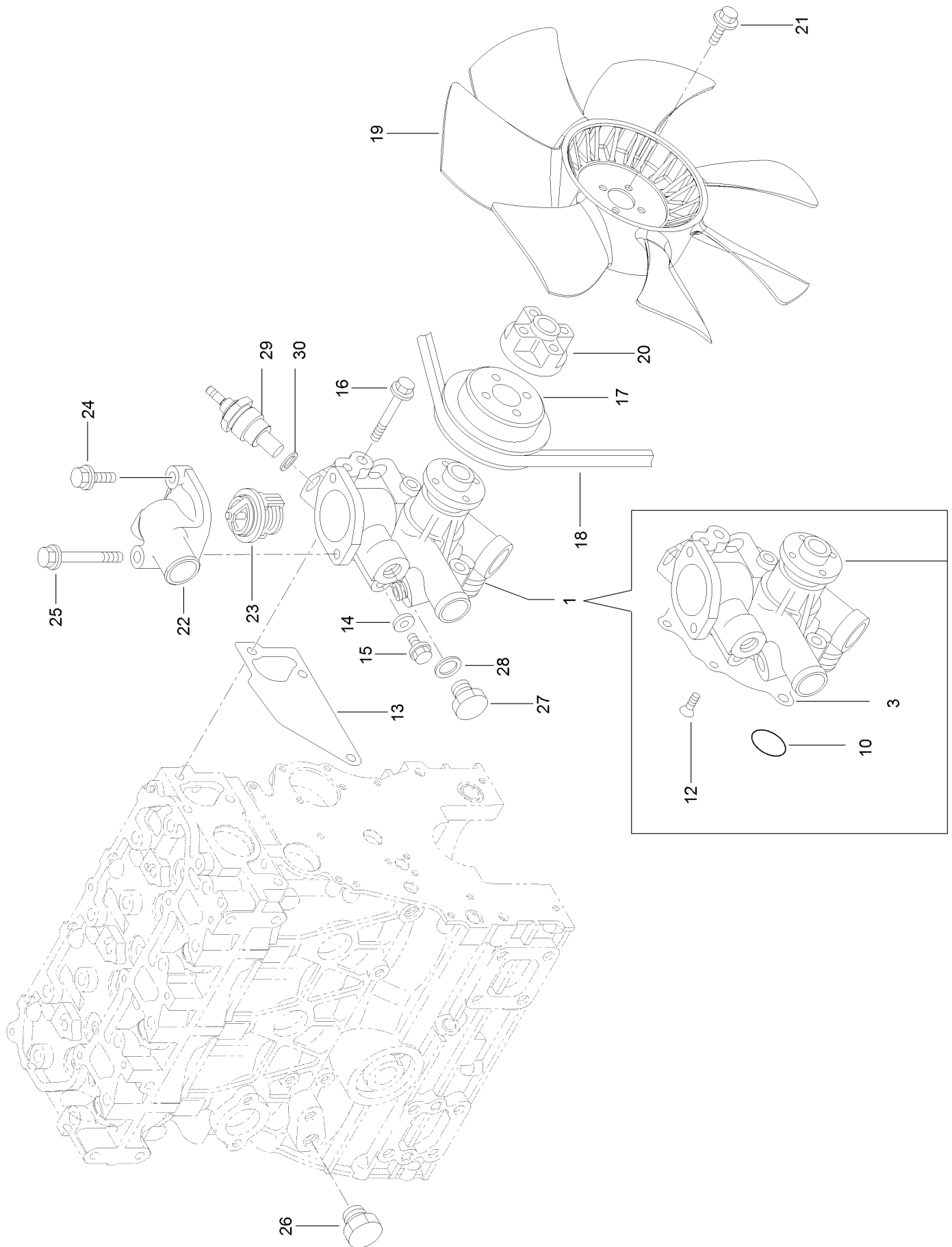


Lubrication and Oil System Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	134-1413	1	Dipstick
2	125-6954	1	Guide-Dipstick
3	134-4008	1	Stud
5	135-4178	1	O-Ring
6	134-1414	1	Oil Inlet Pipe ASM
10	125-7205	2	Bolt
11	134-1377	1	Switch-Hydraulic

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
12	135-4182	1	Pipe-Oil
13	125-6988	2	Joint Bolt ASM
14	125-7174	2	Washer-Seal
15	125-7194	2	Bolt-Joint
16	125-7174	2	Washer-Seal
17	135-4181	1	Filter-Oil, Engine

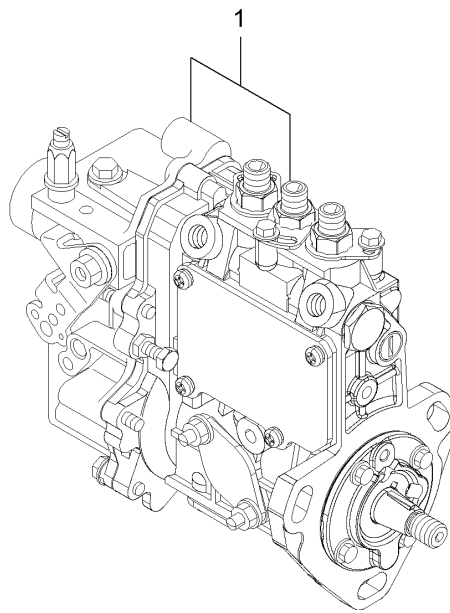
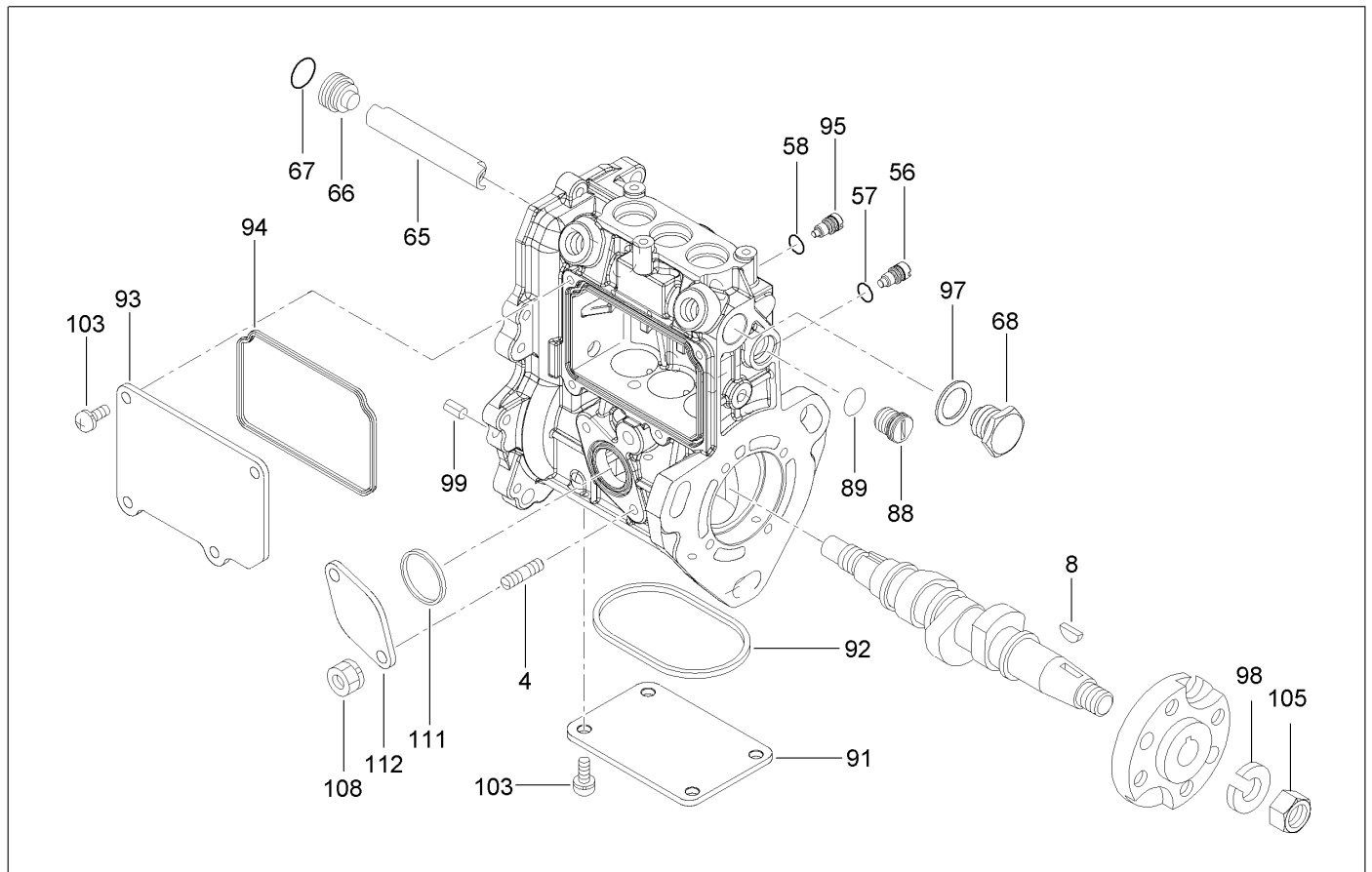
Cooling Water System Assembly



Cooling Water System Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	134-4009	1	CW Pump ASM	20	131-2705	1	Spacer
3	135-4188	1	Gasket	21	131-2739	4	Bolt
10	135-4190	1	O-Ring	22	135-4199	1	Cover-Thermostat
12	133-2504	4	Screw	23	135-4200	1	Thermostat
13	135-4193	1	Gasket-Pump, Water	24	135-4201	1	Bolt
14	125-7192	1	Gasket	25	135-4202	1	Bolt
15	125-7212	1	Bolt	26	125-7171	1	Plug-Drain
16	125-7220	3	Bolt	27	125-6953	1	Plug
17	134-1417	1	V-Pulley	28	125-6979	1	Gasket
18	140-7179	1	V-Belt	29	134-3128	1	Sensor-Temperature
19	140-7157	1	Fan-Cooling	30	134-4010	1	Gasket

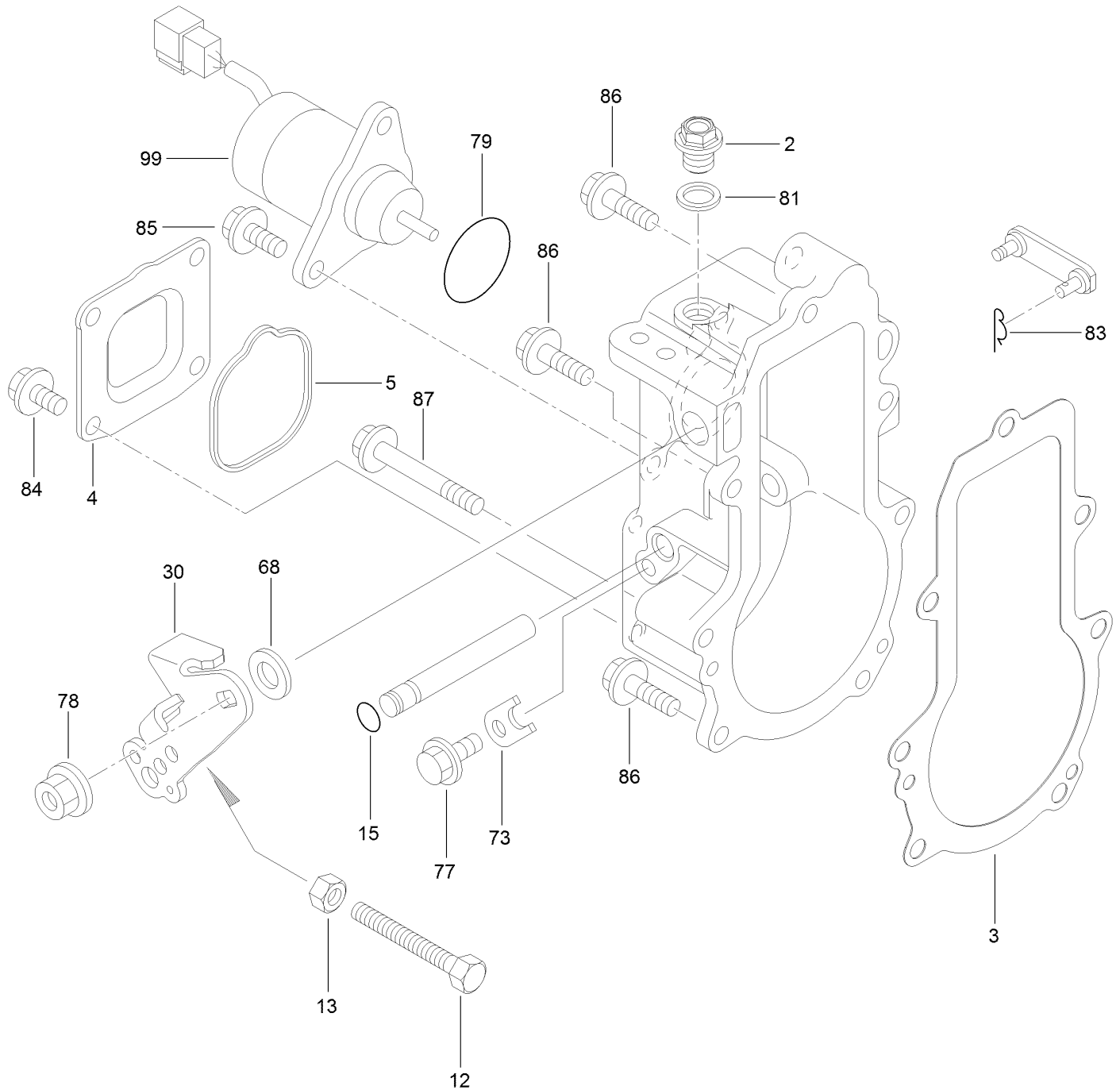
Fuel Injection Pump Assembly



Fuel Injection Pump Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7183	1	Fuel Injection Equipment ASM	91	135-4215	1	Cover
4	135-4205	2	Bolt-Stud	92	135-4216	1	Gasket
8	135-4206	1	Key-Feather, Woodruff	93	135-4217	1	Cover
56	125-7156	3	Stopper	94	135-4218	1	Gasket
57	135-4207	3	O-Ring	95	135-4219	1	Stopper-Rack
58	135-4207	1	O-Ring	97	136-8236	1	Washer-Seal
65	135-4209	1	Deflector	98	135-4220	1	Washer-Spring
66	135-4210	1	Plug-Deflector	99	125-7183	2	Pin-Spring
67	135-4211	1	O-Ring	103	135-4221	8	Screw
68	135-4212	1	Plug-Deflector	105	133-2506	1	Nut
88	135-4213	1	Plug-Rack	108	135-4222	2	Nut
89	135-4214	1	O-Ring	111	135-4223	1	Gasket
				112	135-4224	1	Cover-Pump

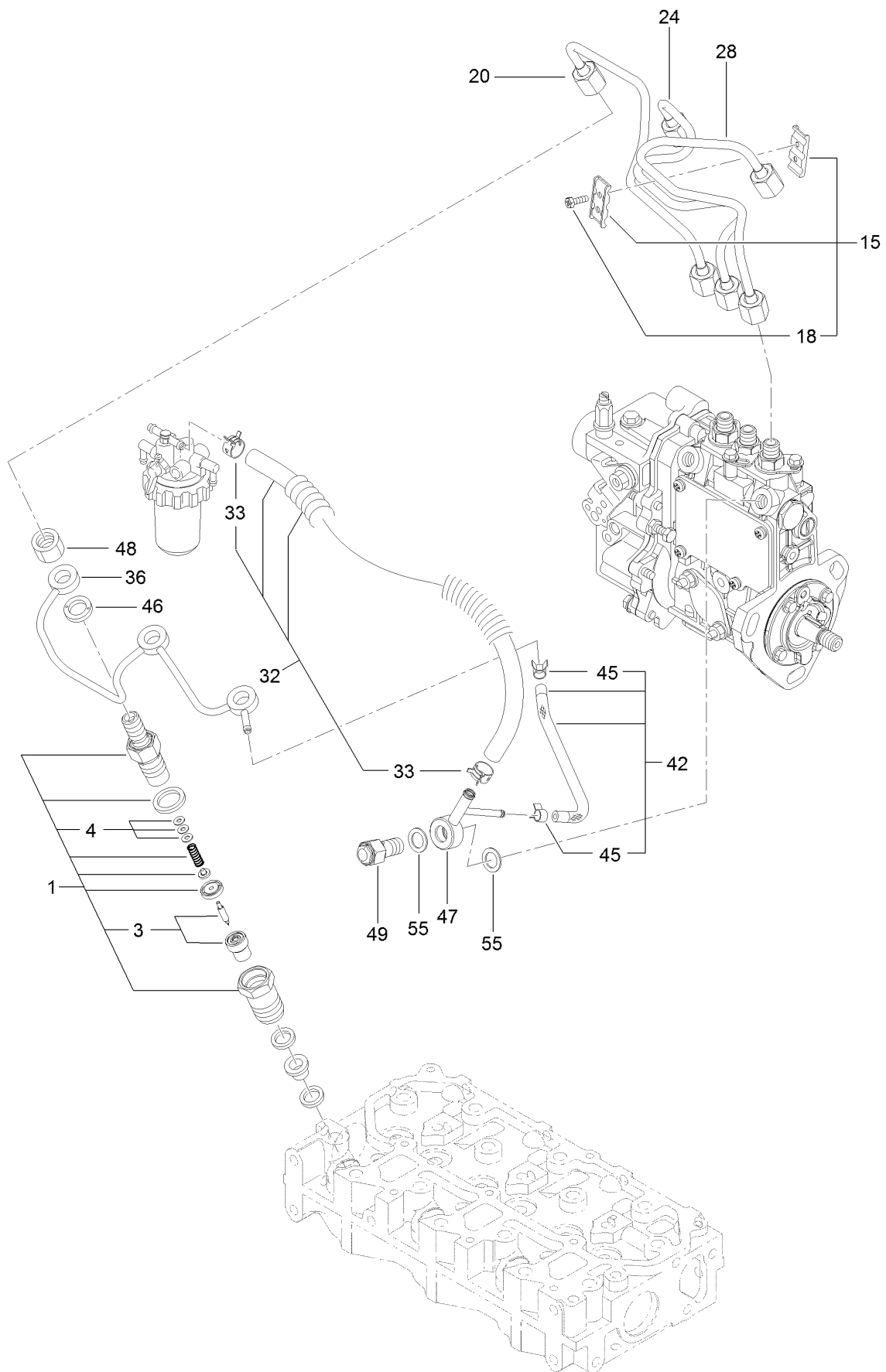
Governor Assembly



Governor Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	135-4226	1	Plug	77	125-7205	1	Bolt
3	135-4227	1	Gasket	78	134-4012	1	Nut-M8
4	140-7159	1	Cover-Case, Governor	79	134-1520	1	O-Ring
5	134-1435	1	Gasket	81	125-7175	1	Washer-Seal
12	134-4013	1	Bolt-Limit, Idle	83	134-1529	1	Pin
13	134-4014	1	Nut	84	125-7205	4	Bolt
15	135-4207	1	O-Ring	85	125-7207	2	Bolt
30	134-1385	1	Lever-Control	86	125-7209	4	Bolt
68	134-1518	1	Shim Set	87	136-8256	3	Bolt
73	134-1395	1	Stopper-Shaft	99	140-7172	1	Stop-Solenoid

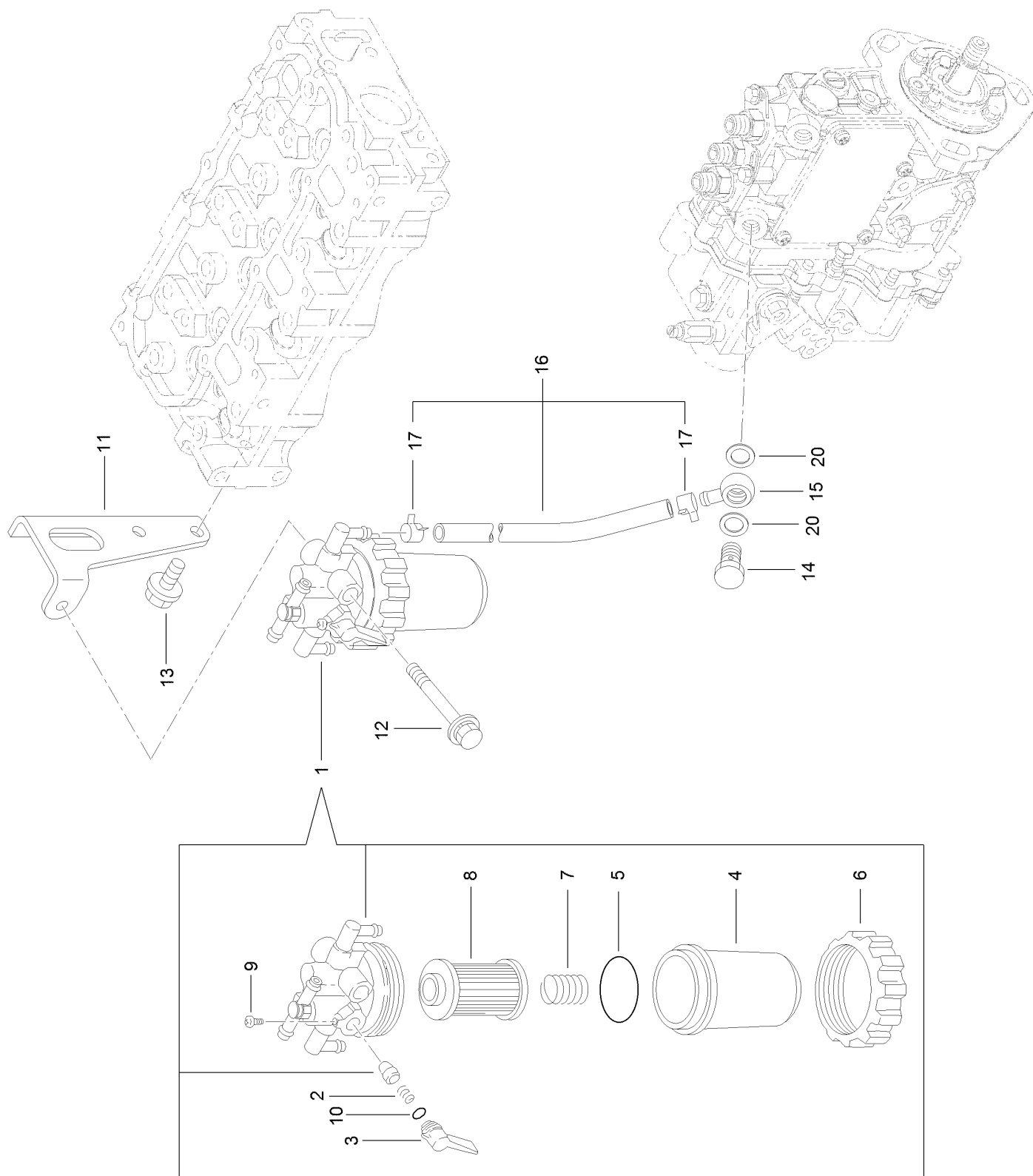
Fuel Injection Valve Assembly



Fuel Injection Valve Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4229	3	Nozzle ASM	33	140-7167	2	Clamp-Hose (11.5)
3	135-4230	3	Nozzle ASM	36	134-1431	1	Return Pipe ASM
4	135-4231	3	Adjusting Shim Set	42	140-7155	1	Fuel Pipe ASM
15	134-1488	1	Retainer-Pipe	45	125-6970	2	Clip
18	125-7027	2	Bolt	46	135-4237	3	Gasket
20	135-4233	1	Pipe ASM (Inj No1)	47	135-4239	1	Joint-Over Flow
24	135-4234	1	Pipe ASM (Inj No2)	48	135-4240	3	Nut-Nozzle
28	135-4235	1	Pipe ASM (Inj No3)	49	135-4241	1	Check Valve ASM
32	140-7154	1	Fuel Pipe ASM	55	125-7176	2	Washer-Seal

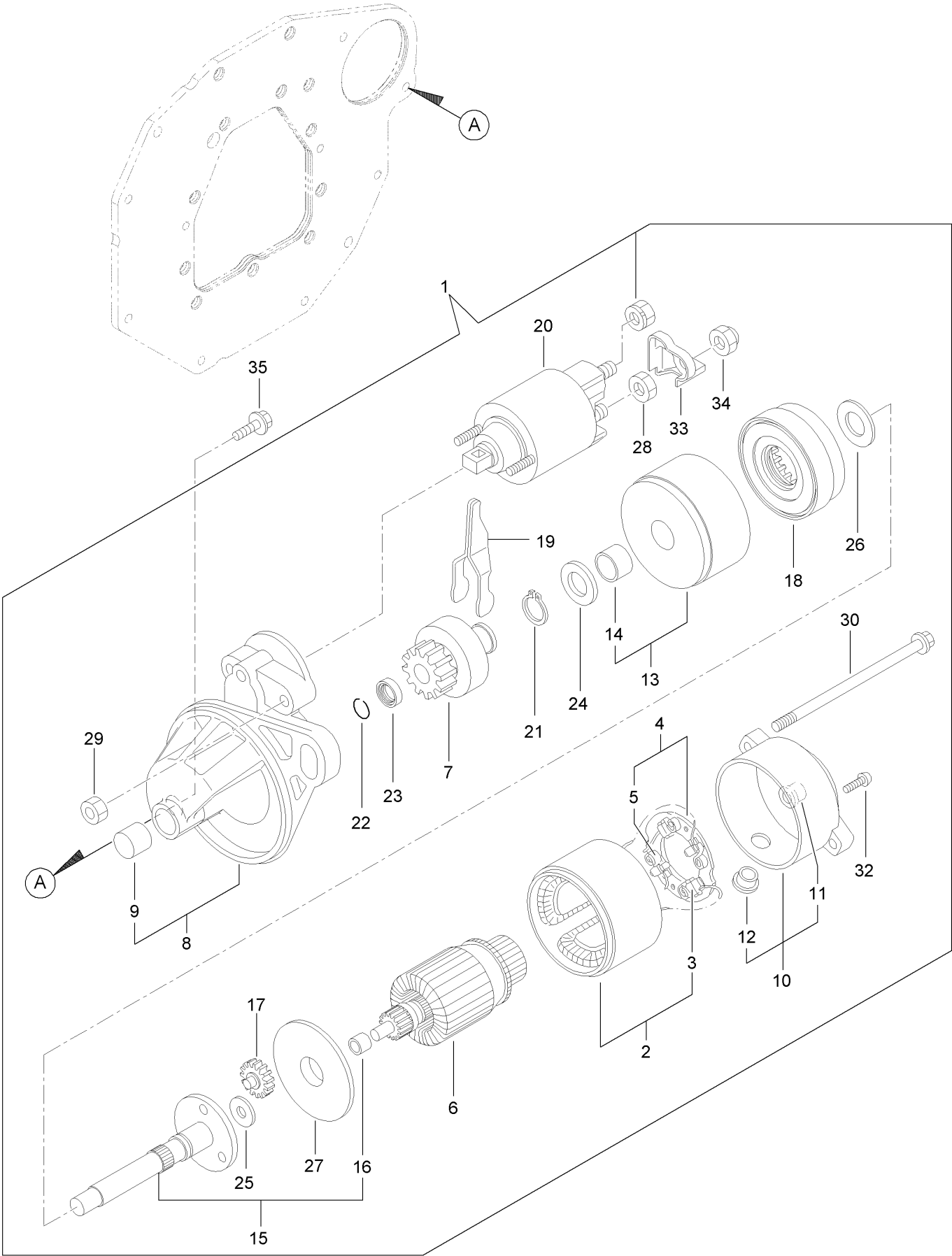
Fuel Pipe Assembly



Fuel Pipe Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	139-6234	1	Fuel Filter ASM	10	134-1535	1	O-Ring
2	134-1373	1	Spring-Valve, Fuel	11	140-7158	1	Bracket, Filter
3	134-1454	1	Lever-Fuel	12	140-7180	1	Bolt
4	134-1459	1	Cup-Strainer, Fuel	13	125-7214	2	Bolt
5	134-1371	1	O-Ring	14	135-4242	1	Bolt-Joint, Pipe
6	134-1376	1	Ring-Retaining, Cup	15	135-4243	1	Joint-Pipe
7	134-1458	1	Spring-Element	16	140-7153	1	Fuel Pipe ASM
8	134-3085	1	Element-Filter, Fuel	17	140-7167	2	Clamp-Hose (11.5)
9	134-1375	1	Screw-Pan	20	125-7176	2	Washer-Seal

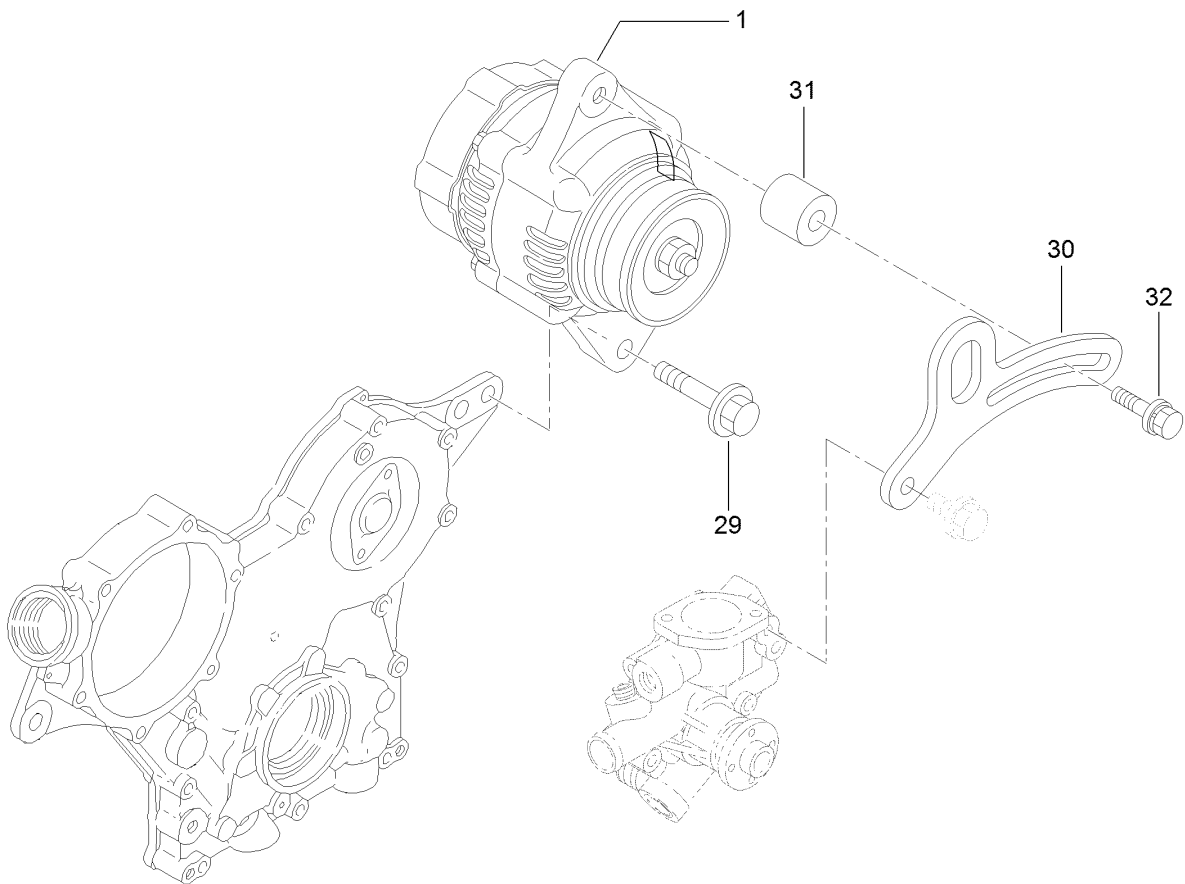
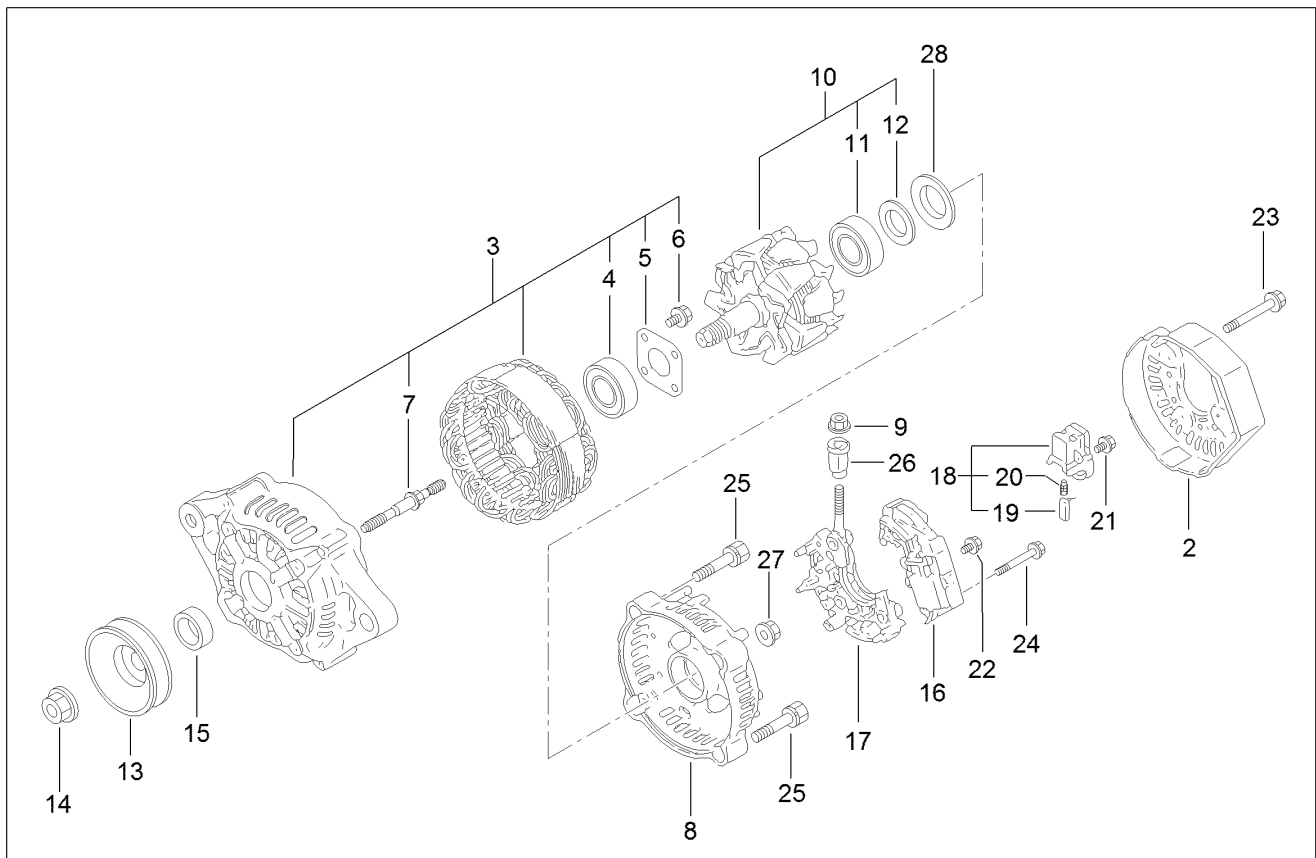
Starter Motor Assembly



Starter Motor Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	135-4244	1	Starter ASM	18	135-4261	1	Gear
2	135-4245	1	Yoke ASM	19	135-4262	1	Lever
3	135-4246	2	Starter Kit	20	135-4263	1	Switch ASM
4	135-4247	1	Holder ASM	21	135-4264	1	Ring
5	135-4248	4	Spring	22	135-4265	1	Ring
6	135-4249	1	Armature ASM	23	135-4266	1	Nut
7	135-4250	1	Clutch ASM	24	135-4267	1	Washer
8	135-4251	1	Housing ASM	25	135-4268	1	Washer
9	135-4252	1	Bearing-Needle	26	135-4269	1	Washer
10	135-4253	1	Frame ASM	27	135-4270	1	Plate
11	135-4254	1	Bearing	28	135-4271	1	Nut
12	135-4255	1	Cover	29	135-4272	2	Nut
13	135-4256	1	Bearing ASM	30	135-4273	2	Bolt-Through
14	135-4257	1	Bearing	32	135-4274	2	Screw
15	135-4258	1	Shaft ASM	33	135-4275	1	Cover-Terminal
16	135-4259	1	Bearing	34	135-4276	1	Nut
17	135-4260	3	Gear	35	133-2496	2	Bolt

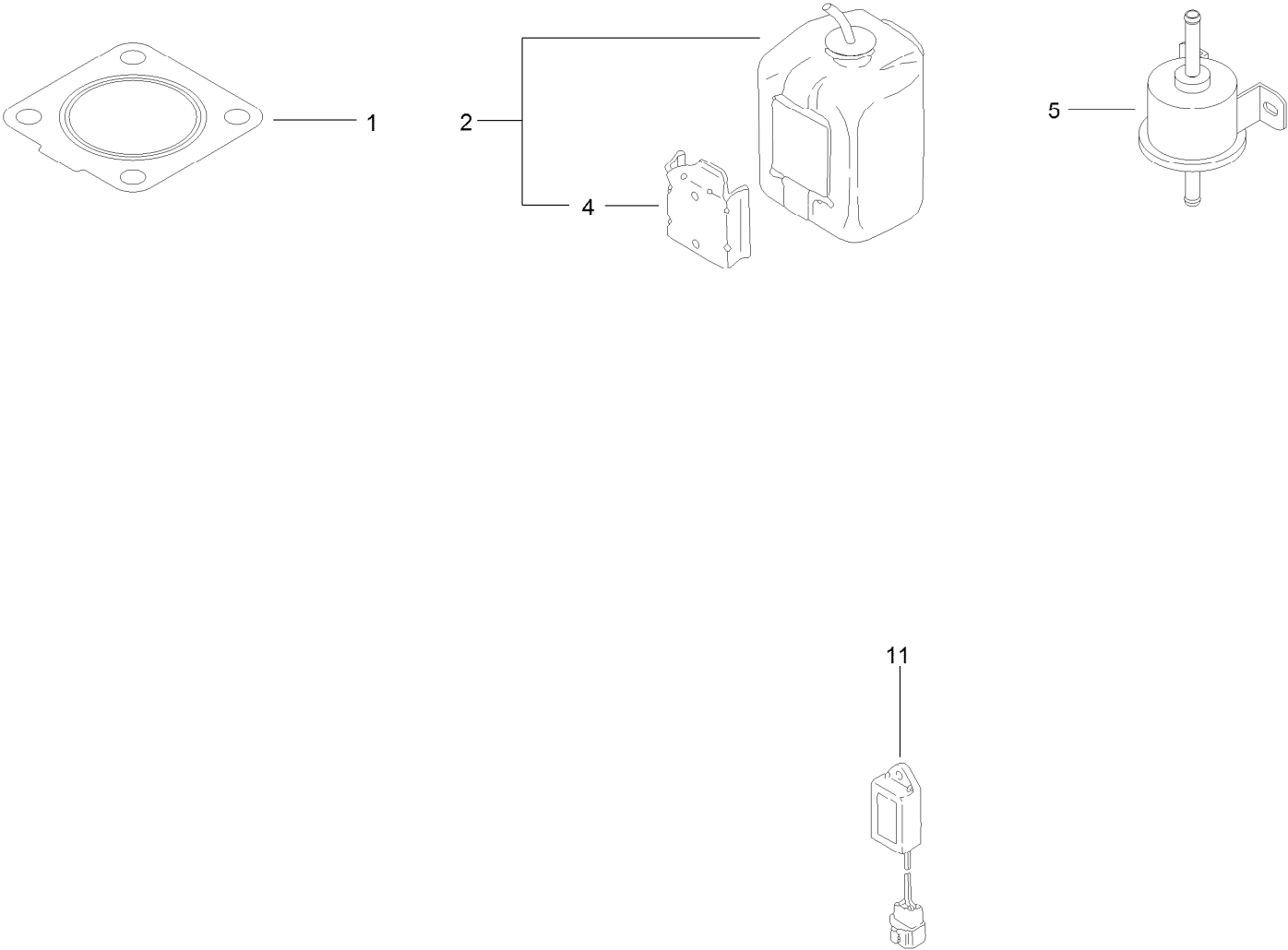
Generator Assembly



Generator Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7162	1	Alternator (12V-40A)	17	127-2963	1	Holder
2	127-2999	1	Cover	18	127-2993	1	Holder
3	135-4025	1	Frame ASM	19	127-2956	2	Brush ASM
4	127-2958	1	Bearing-Ball	20	127-2964	2	Spring
5	127-2959	1	Plate-Retainer	21	127-2965	6	Screw
6	127-2960	4	Screw	22	127-2966	1	Screw
7	127-2961	2	Stud	23	127-2967	3	Bolt
8	140-7163	1	Rear Frame ASM	24	127-2968	2	Screw
9	127-3190	1	Nut	25	127-2969	2	Bolt
10	127-2951	1	Rotor ASM	26	127-2970	1	Bushing-Insulation
11	127-2983	1	Bearing-Ball	27	127-2971	2	Nut
12	127-2962	1	Cover	28	127-2972	1	Washer
13	127-2954	1	Pulley	29	135-4277	1	Bolt
14	127-2955	1	Nut	30	140-7151	1	Adjuster-Belt
15	127-2957	1	Collar	31	140-7166	1	Spacer-Adjuster
16	134-4018	1	Regulator ASM	32	125-7134	1	Bolt

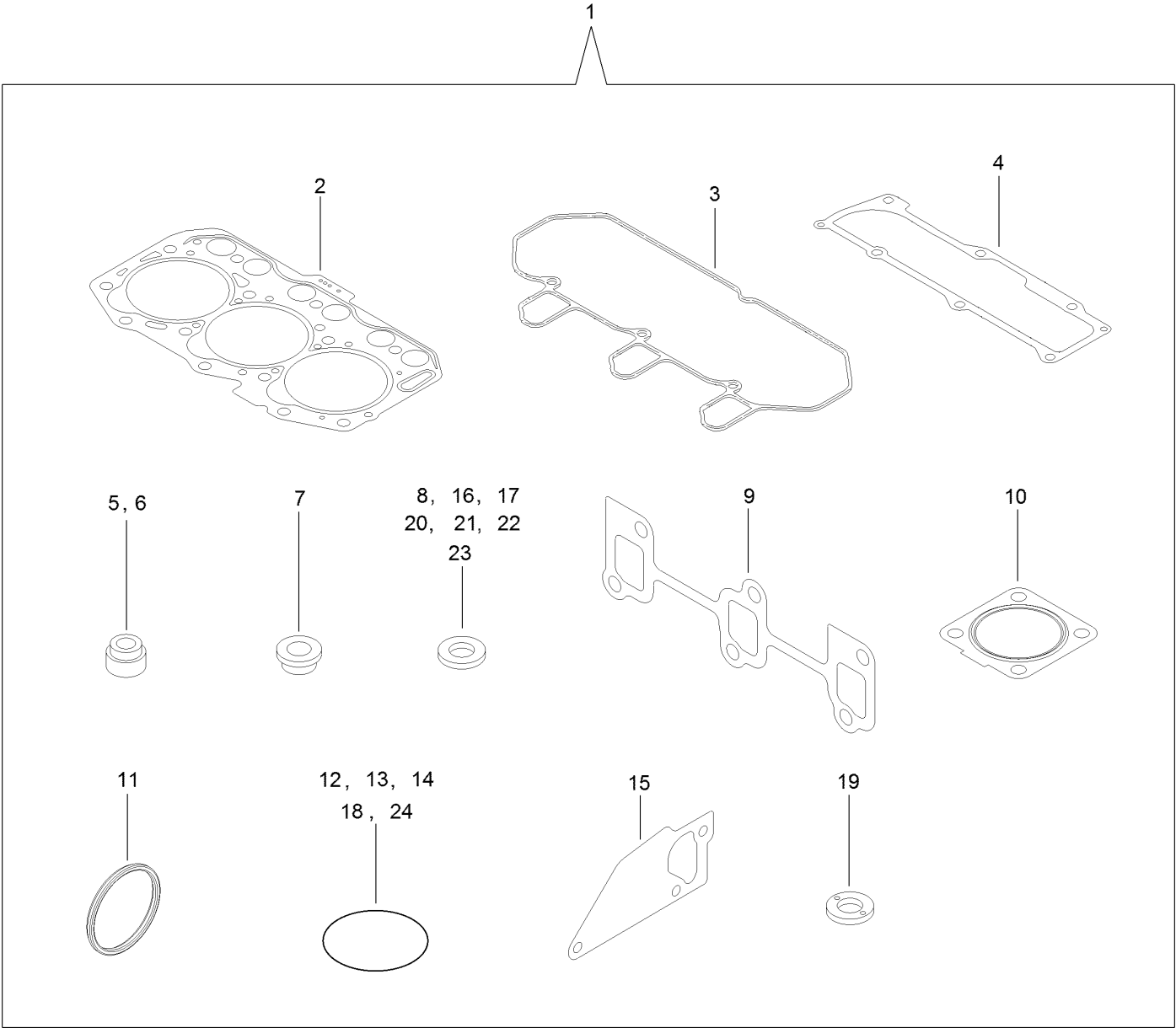
Accessory Assembly



Accessory Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	134-1383	1	Gasket-Silencer	5	121-5613	1	Pump-Fuel, Electric
2	140-7185	1	Tank ASM	11	134-1507	1	Timer
4	140-7165	1	Bracket-Tank				

Gasket Set



Gasket Set (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7184	1	Gasket Set	13	135-4058	2	O-Ring
2	135-4038	1	Head Gasket Set	14	135-4178	1	O-Ring
3	135-4093	1	Gasket-Cover, Cylinder Head	15	135-4193	1	Gasket-Pump, Water
4	135-4095	1	Gasket	16	125-6979	1	Gasket
5	125-6915	3	Seal-Stem, Valve	17	134-4010	1	Gasket
6	125-6916	3	Seal-Stem, Valve	18	125-6957	1	O-Ring
7	135-4069	3	Protector-Nozzle	19	135-4237	3	Gasket
8	135-4070	6	Gasket-Nozzle	20	125-7174	4	Washer-Seal
9	135-4107	1	Gasket-Manifold, Exhaust	21	125-7176	4	Washer-Seal
10	134-1383	1	Gasket-Silencer	22	136-8236	1	Washer-Seal
11	134-4004	1	Packing-Washer	23	125-7192	1	Gasket
12	127-2973	1	O-Ring	24	125-7197	2	O-Ring

Attachments and Accessories

For 31900 Groundsmaster 3200 2-Wheel Drive Traction Unit

Product Name	Model/Part
Operator Cooling Fan	03247
Switch Panel	03248
Filter-Air	108-3811
Filter-Spin On, Fuel/Water	110-9049
Paint-Black Bottle	112-0176
Paint-Red Pen	112-0177
Paint-Red Bottle	112-0178
15-Pound Cast Weight.....	112-7059-01
42-Pound Weight.....	114-4096
Seat Cover (W/arm rest)	117-0095
Premium Synthetic Bio-Degradable Hydraulic Fluid (5 Gallon Pail)	119-2157
Premium Synthetic Bio-Degradable Hydraulic Fluid (55 Gallon Drum).....	119-2158
PX Hydraulic Fluid (5 Gal)	133-8086
PX Hydraulic Fluid (55 Gal).....	133-8087
Element-Filter, Fuel	134-3085
Filter-Oil, Engine.....	135-4181
Beacon Kit	138-2699
Work Lights Kit.....	138-2700
Wrench-Caster Cap/Latch	138-6367
Storage Bag Kit.....	139-2020
SMV Kit.....	139-2339
Power Harness Kit	140-1559
Kit-Weight	144-0480
Plate-Weight, 25 LBS	144-0484
Kit-Blade, Std (24.5) 3pk.....	144-3911
Kit-Blade, Med Flow (20.5) 3pk.....	144-3912
Kit-Blade, High Flow (20.5) 3pk	144-3913
Kit-Blade, Atomic (20.5) 3pk	144-3914
Kit-Blade, Low Flow (24.5) 3pk	144-3915
Kit-Blade, Recycling (24.5) 3pk.....	144-3916
Kit-Blade, Low Flow (20.5) 3pk	144-3917
Kit-Blade, Recycling (20.5) 3pk.....	144-3918
Kit-Blade-24.50 Low Flow 3pk	144-3962
Kit-Blade-24.50 Recycler 3pk	144-3963
Kit-Blade-20.50 Low Flow 3pk	144-3964
Kit-Blade-20.50 Recycler 3pk	144-3965
Kit-Blade-24.50 Atomic 3pk	144-3966
Kit-Blade-20.50 Atomic 3pk	144-3967
White Universal Sunshade	30669
Red Universal Sunshade	30671
Slope Sensor Kit.....	31952
CE Kit, Groundsmaster 3200 or 3300 Series Traction Unit.....	31953
CE Kit, Groundsmaster 3200 or 3300 Series 60in Side Discharge Rotary Mower.....	31957
CE Kit, Groundsmaster 3200 or 3300 Series 72in Side Discharge Rotary Mower.....	31958
CE Kit, Groundsmaster 3200 or 3300 Series 60in Rear Discharge Rotary Mower.....	31959
CE Kit, Groundsmaster 3200 or 3300 Series 72in Rear Discharge Rotary Mower	31960

Attachments and Accessories (continued)

Auxiliary HYD Kit	31966
60in SD Deck.....	31970
60in RD Deck.....	31971
72in SD Deck.....	31972
72in RD Deck.....	31973
60in RD Deck, T2	31974
72in RD Deck, T2	31975
Recycler Kit 60in/152cm SD	31976
Recycler Kit, 60In/152cm RD.....	31977
Recycler Kit, 72In/183cm SD	31978
Recycler Kit, 72In/183cm RD.....	31979
Seat Assembly - Standard	31980
Seat Assembly - Mechanical Suspension	31981
Seat Assembly - Air Ride Suspension.....	31982
Storage Box Kit.....	31983
USB Charging Kit.....	31984
Recycler Kit 60in/152cm Rd T2.....	31985
Recycler Kit 72in/183cm Rd T2.....	31986
Cab-Winter, GM3000 Series.....	31990
Road Light Kit (North America)	31991
Road Light Kit (EU).....	31992
Accessory Control Kit	31994
LED Beacon Kit	31996
Led Work-light Kit (GM3200/3300, Rops)	31997
Hydraulic Hose Kit	31999
Toro Red 12oz Aerosol Can.....	361-10
Semi-Gloss Black Spray Paint.....	361-9
Filter-Oil, Transmission.....	86-3010

Notes:

Notes:



Count on it.