



Form No. 3440-276 Rev B

Count on it.

Parts Catalog

Groundsmaster® 3300

All-Wheel Drive Traction Unit

Model No. 31902—Serial No. 407200000 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.

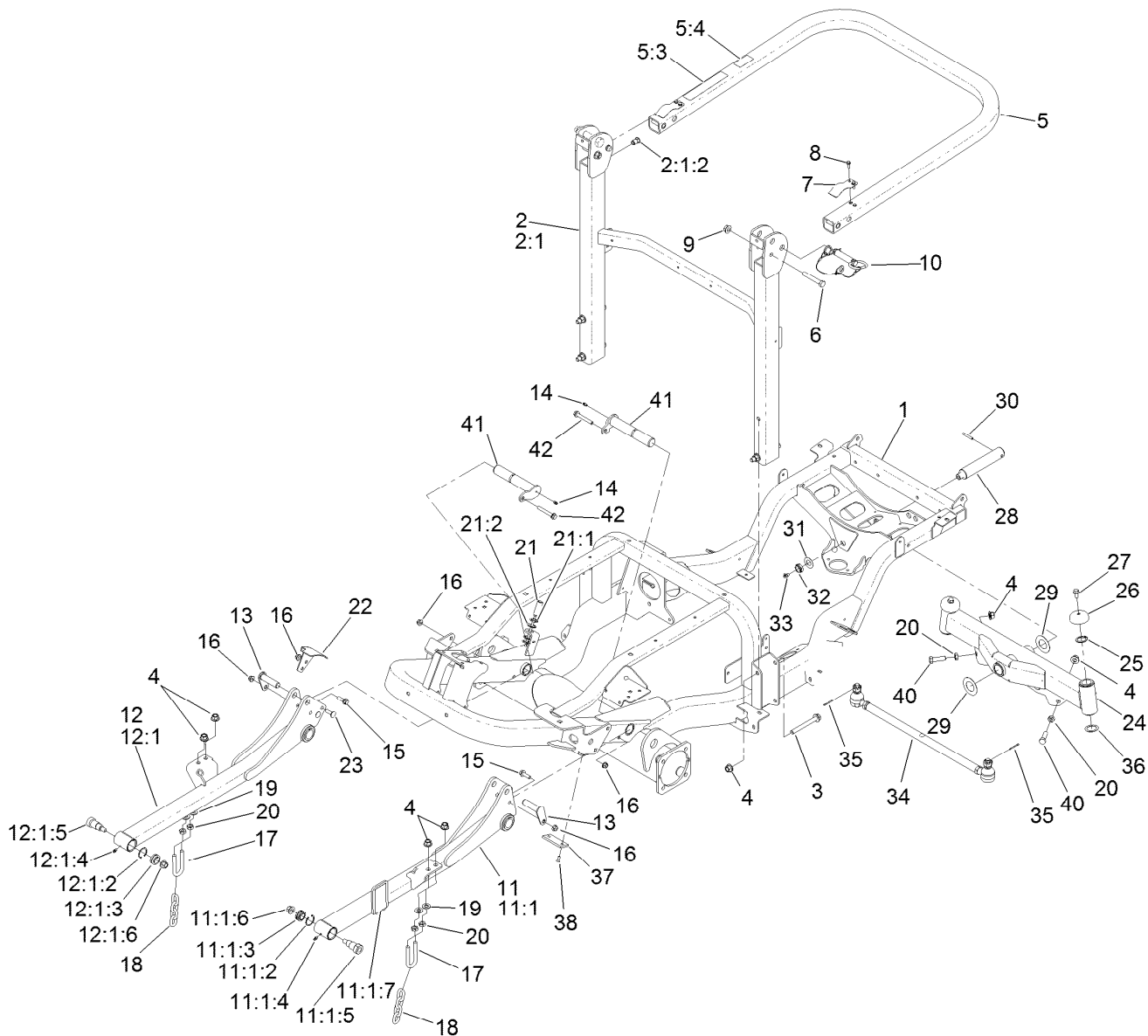
Reference Numbers Indicating Quantity

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.

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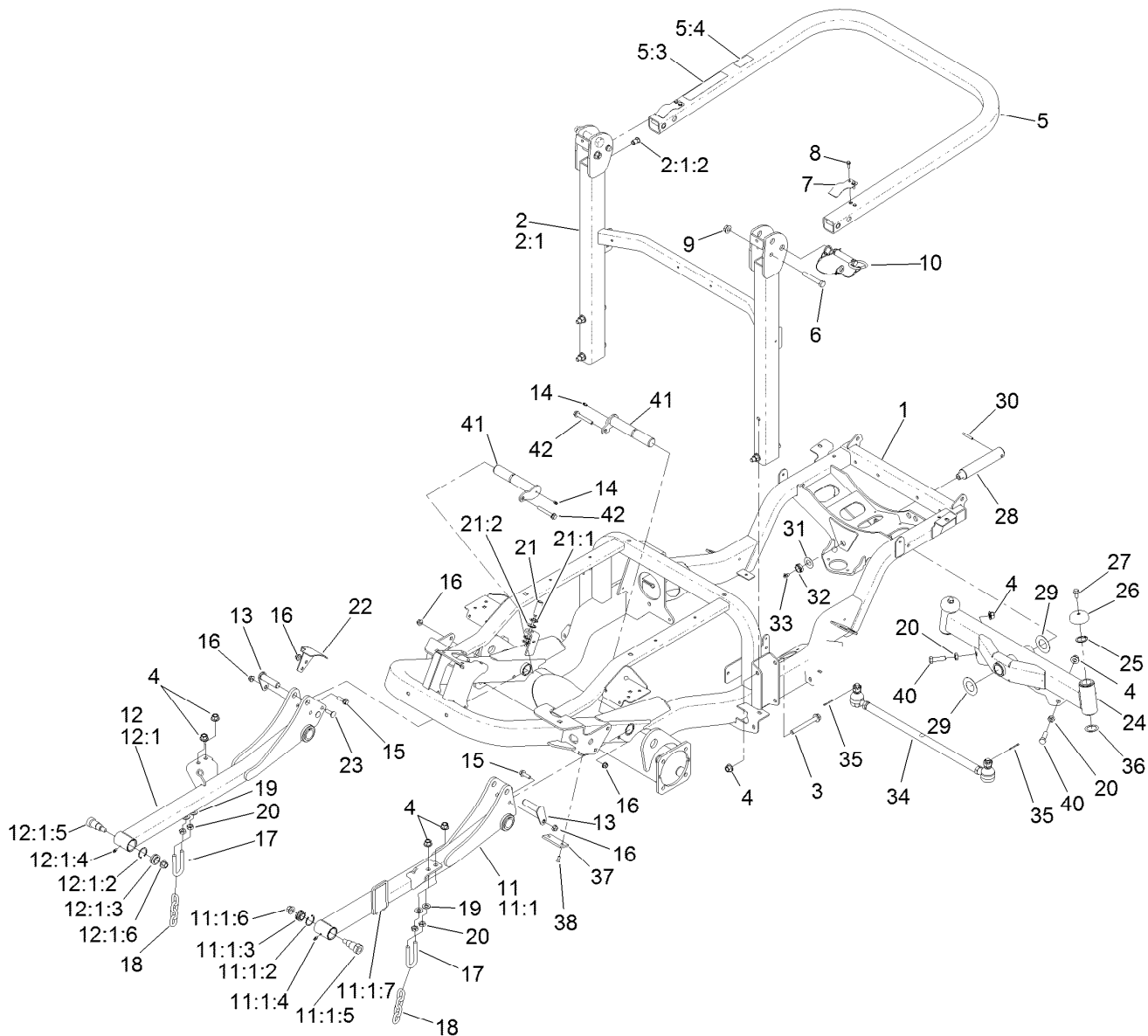


Frame and Roll-Over Protection System Assembly

Ref.	Part Number	Qty.	Description
1	133-6450SP	1	Frame ASM
2	139-6254SP	1	ROPS ASM, Lower
2:1		1	ROPS ASM, Lower ●
2:1:2	138-2760	4	Nut-Clinch, Hex
3	117-3176	4	Screw-HHF
4	99-5107	10	Nut-Lock
5	138-7470	1	ROPS ASM, Upper
5:3	108-2073	1	Decal-Warning
5:4	139-6244	1	Decal-ROPS Compliance
6	325-13	2	Screw-HH
7	110-5696	2	Spring-Leaf
8	32105-15	4	Screw-HWH
9	32128-23	2	Nut-HF
10	103-4553	2	Pin-Fold, ROPS
11	138-7419SP	1	LH Lift Arm ASM
11:1		1	LH Lift Arm ASM ●
11:1:2	32151-34	1	Ring-Retaining
11:1:3	105-7441	1	Bearing-Spherical

Ref.	Part Number	Qty.	Description
11:1:4	302-5	1	Fitting-Grease
11:1:5	139-0910	1	Bolt-Shoulder
11:1:6	99-5107	1	Nut-Lock
11:1:7	139-0948	1	Pad-Ride, Pin
12	138-7429SP	1	RH Lift Arm ASM
12:1		1	RH Lift Arm ASM ●
12:1:2	32151-34	1	Ring-Retaining
12:1:3	105-7441	1	Bearing-Spherical
12:1:4	302-5	1	Fitting-Grease
12:1:5	139-0910	1	Bolt-Shoulder
12:1:6	99-5107	1	Nut-Lock
13	138-7489	2	Pin (Machined)
14	302-5	2	Fitting-Grease
15	119-4061	2	Screw-HHF
16	104-8301	6	Nut-HF, NI
17	104-0108	2	U-Bolt
18	95-6231	2	Chain-HOC
19	3256-26	4	Washer-Flat

● Not serviced separately

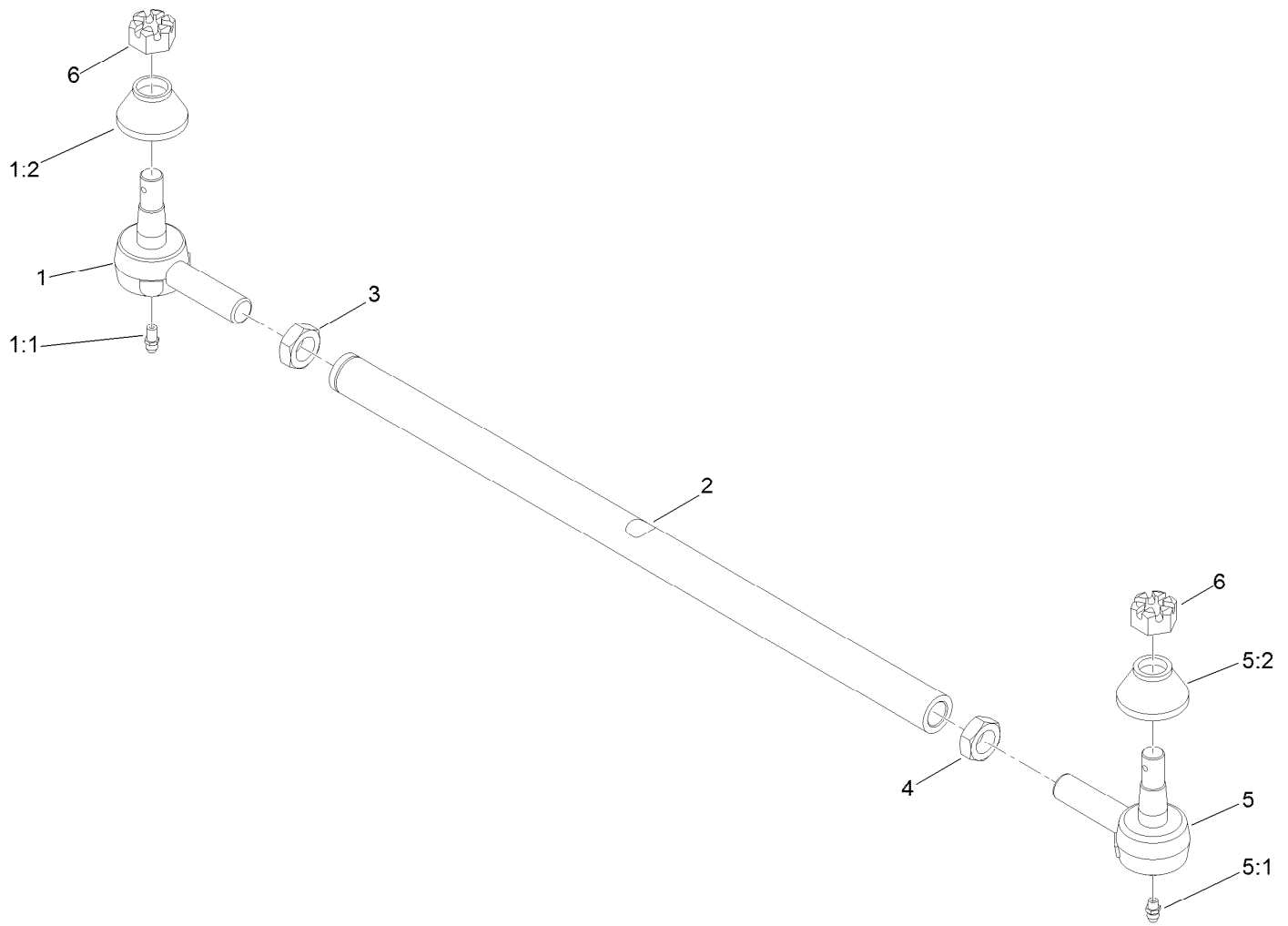


Frame and Roll-Over Protection System Assembly (continued)

Ref.	Part Number	Qty.	Description
20	3218-5	6	Nut-Jam
21	115-5300	1	Proximity Switch ASM
21:1	117-3207	2	Nut-Hex
21:2	117-3208	2	Washer-Lock, Internal Tooth
22	139-6170-03	1	Bracket-Mount, Sensor
23	3231-2	2	Bolt-CARR
24	138-4588	1	Axle ASM
25	32151-77	2	Ring-Retaining, External
26	69-8890	2	Cap-Spindle
27	3234-1	2	Screw-HHF
28	98-8173	1	Pin-Pivot, Axle
29	99-8432	2	Washer-Thrust

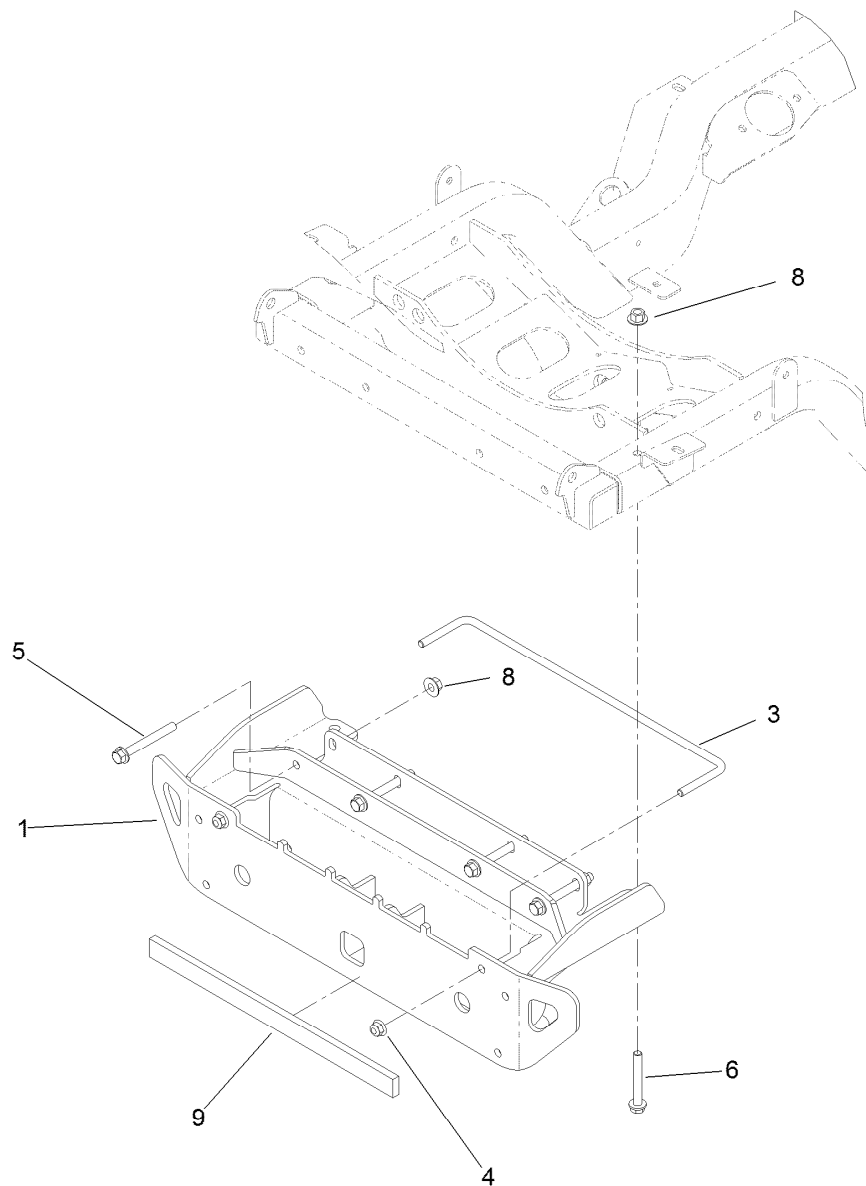
Ref.	Part Number	Qty.	Description
30	32121-32	1	Pin-Roll
31	71-4540	1	Washer-Thrust
32	3296-15	1	Nut-Lock, NI
33	302-33	1	Fitting-Grease
34	133-6462	1	Tie Rod ASM
35	3272-12	2	Pin-Cotter
36	76-2980	2	Washer-Thrust
37	138-4452	2	Pad-Stop, Deck
38	3289-4	4	Screw-FH
40	325-7	2	Screw-HH
41	138-4593	2	Pin
42	133-9682	2	Screw-Hfh

● Not serviced separately



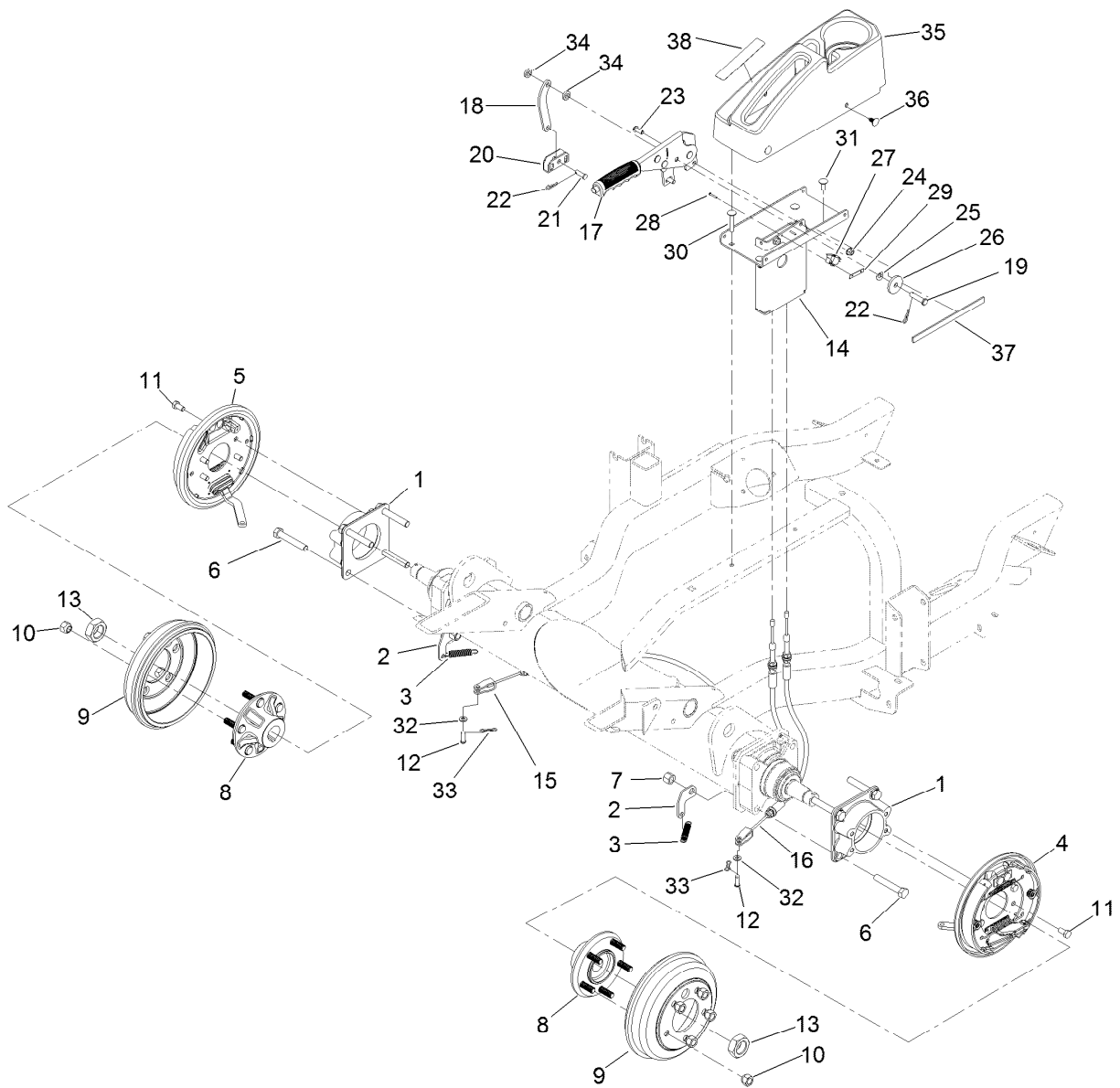
Tie Rod Assembly No. 133-6462

<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



Rear Bumper Assembly

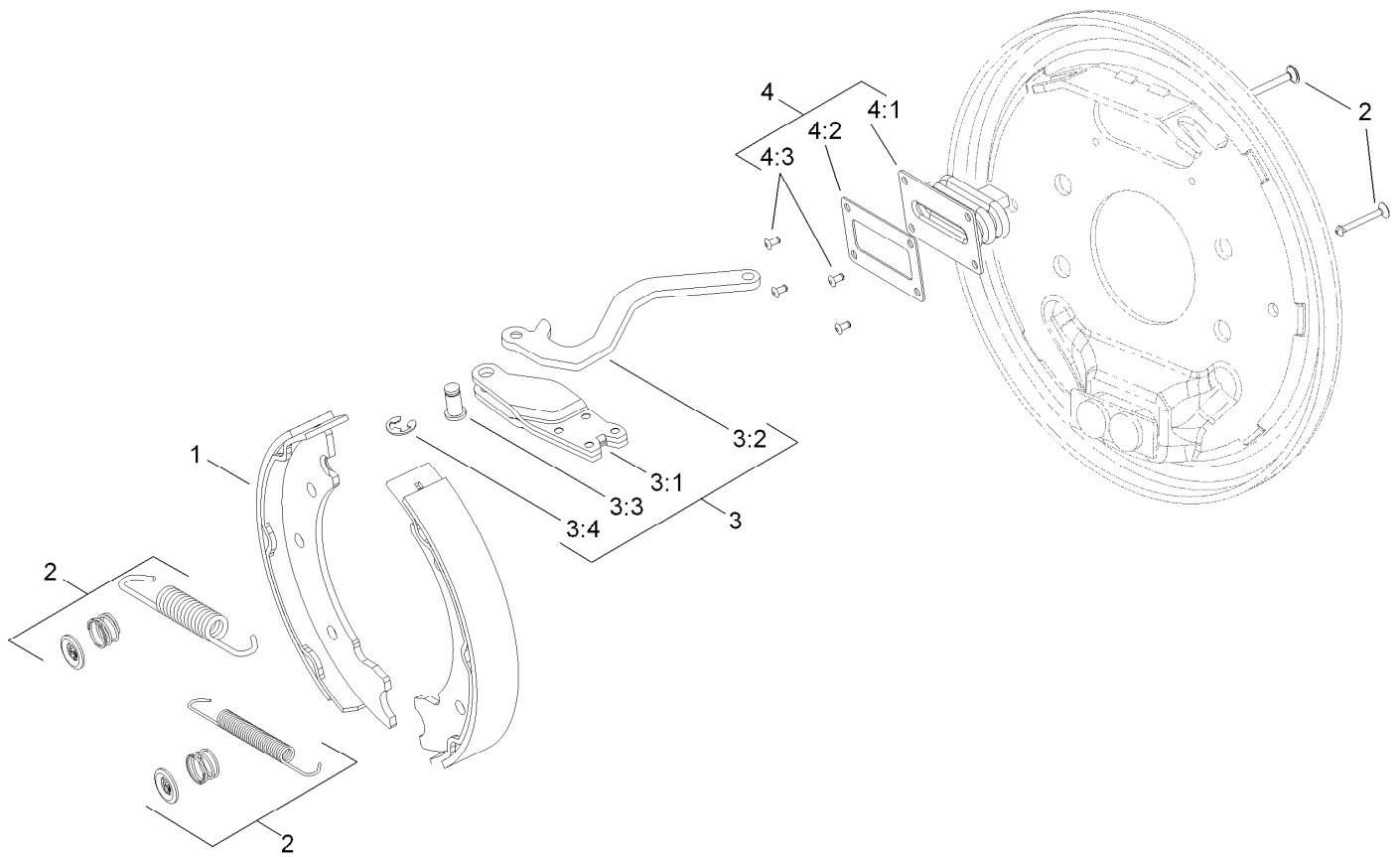
Ref.	Part Number	Qty.	Description
1	139-2328SP	1	Rear Bumper
3	125-2667	1	Lock-Weight
4	104-8301	2	Nut-HF, NI
5	3234-41	4	Screw-HHF
6	133-9682	2	Screw-Hfh
8	32128-43	6	Nut-Flange
9	144-0553	1	Strip-Rubber



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
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	137-2644-03	1	Mount-Brake, Parking
15	137-2640	1	Cable-Brake, Adjustable RH
16	137-2641	1	Cable-Brake, Adjustable LH
17	131-8320	1	Lever-Brake, Park
18	127-8836-03	1	Link-Brake, Park
19	283-10	1	Pin-Clevis

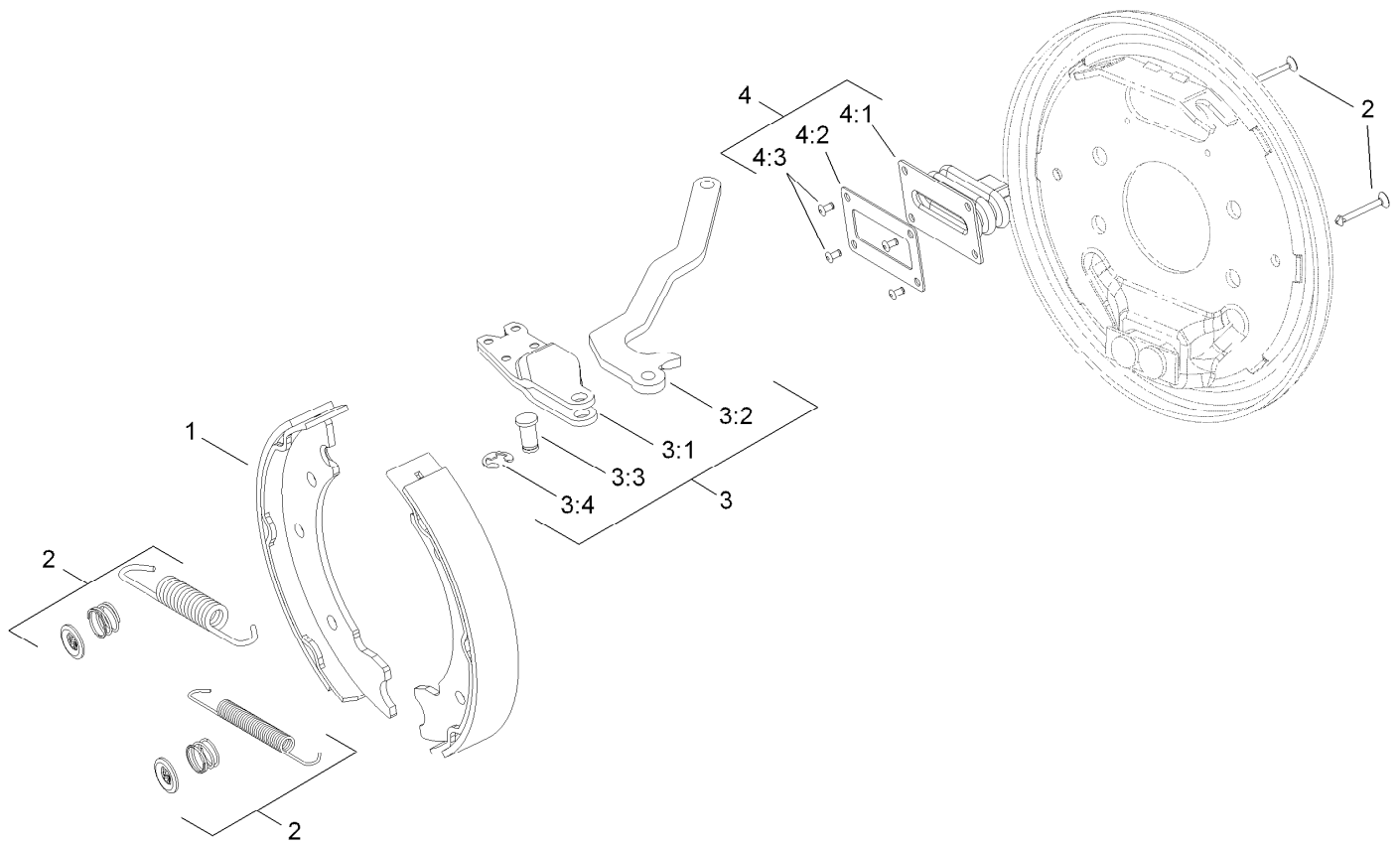
Ref.	Part Number	Qty.	Description
20	87-3480	1	Bracket-Equalizer, Cable
21	1-808280	1	Pin-Clevis
22	1-806003	2	Pin-Cotter
23	3274-55	2	Screw-HSBH
24	104-8300	6	Nut-HF, NI
25	121-4605	1	Washer-Spring
26	131-8496	1	Washer-Plain
27	108-6496	1	Switch (W/Boot)
28	3290-313	2	Screw-SPH
29	3290-354	1	Nut-Speed
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	4	Plug-Plastic
37	132-7282	2	Strip-Foam
38	139-6224	1	Decal-Parking Brake



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 ●

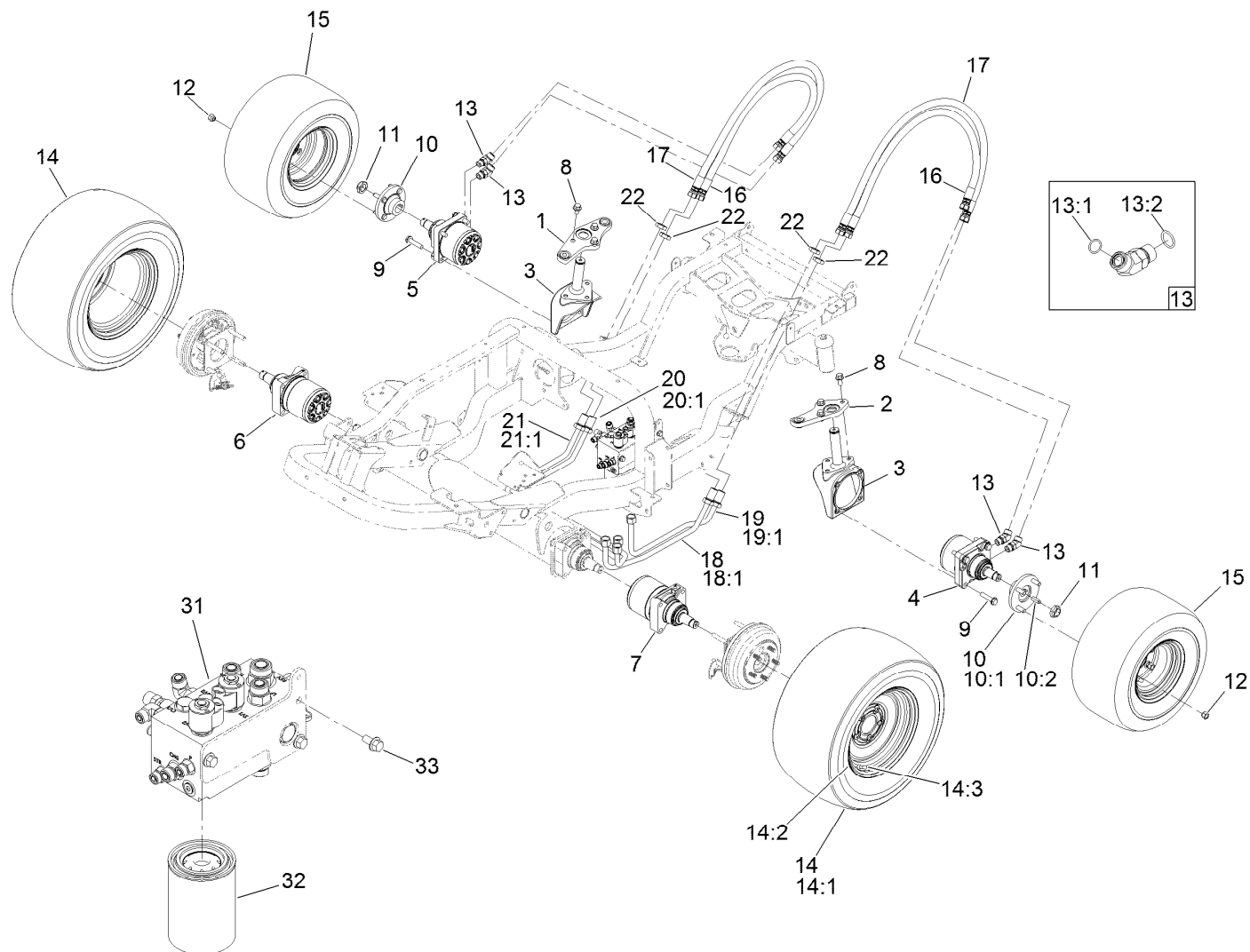
● Not serviced separately



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 ●

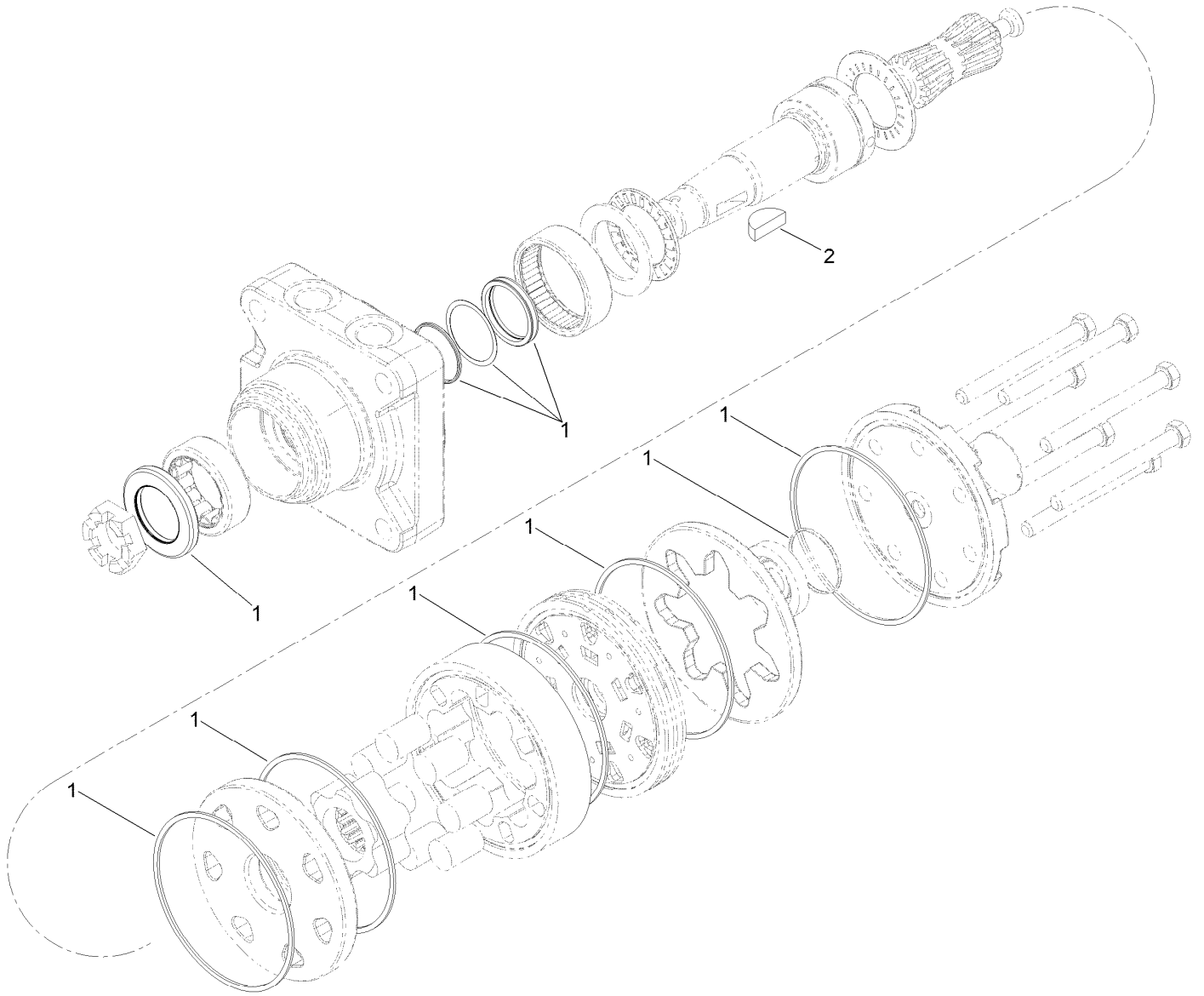
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Hydraulic Drive Assembly

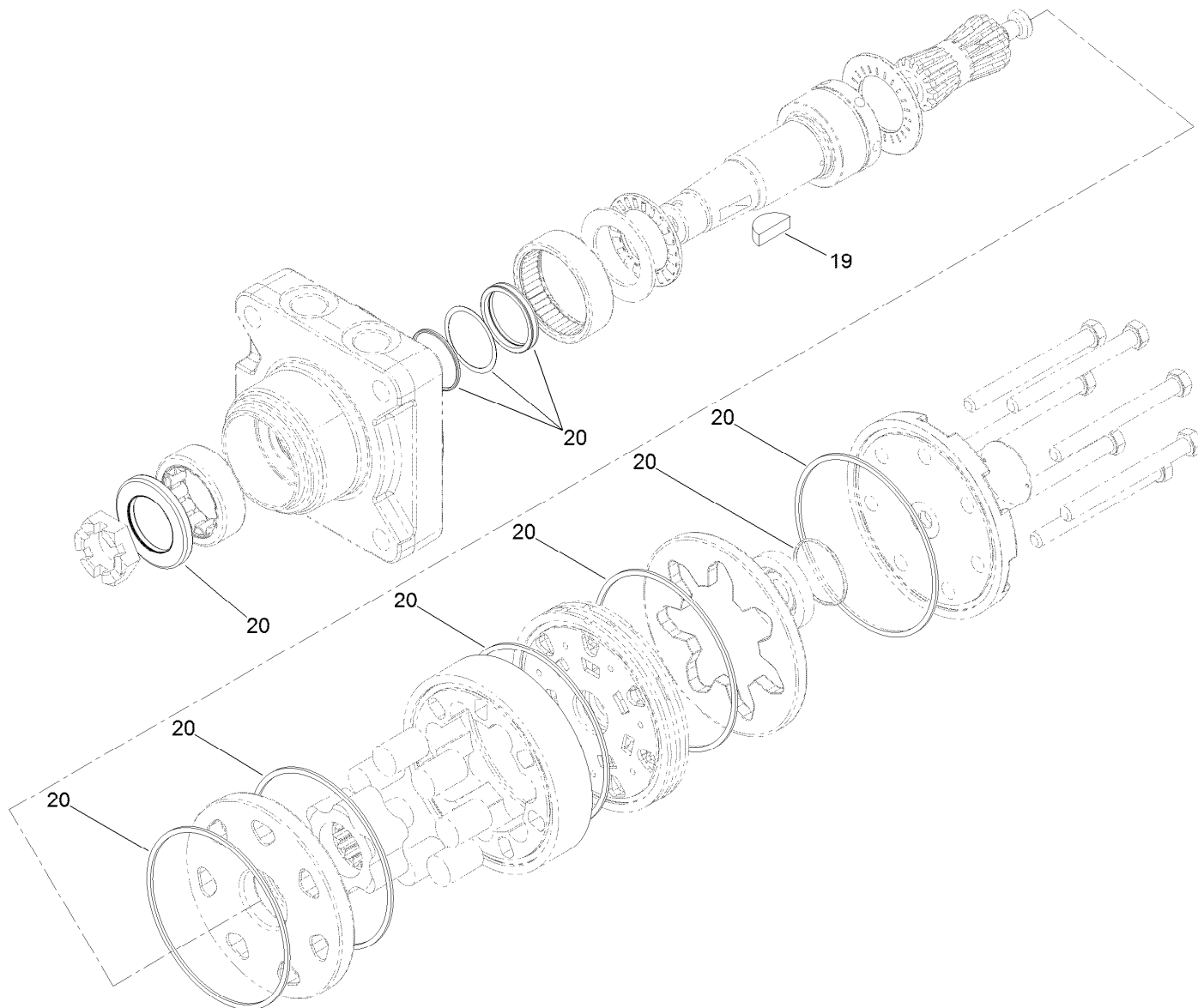
Ref.	Part Number	Qty.	Description
1	140-3133-03	1	RH Drag Link ASM
2	140-3135-03	1	LH Drag Link ASM
3	107-4517-03	2	Housing-Motor
4	138-0303	1	Motor-Hydraulic, CCW
5	138-0304	1	Motor-Hydraulic, CW
6	137-2478	1	Motor-Hydraulic, CW
7	137-2458	1	Motor-Hydraulic, CCW
8	3234-6	6	Screw-HHF
9	3234-46	8	Screw-HHF
10	18-3209	2	Wheel Hub/Stud ASM
10:1	10-6870-03	1	Hub-Wheel
10:2	10-6830	4	Stud-Type, Drive
11	116-1399	2	Locknut
12	242-50	8	Nut-Lug
13	340-14	4	Fitting-HYD, 45 DEG
13:1	237-65	1	O-Ring
13:2	237-80	1	O-Ring
14	137-2590	2	Wheel ASM

Ref.	Part Number	Qty.	Description
14:1	137-2594	1	Tire
14:2	137-2595	1	Rim
14:3	232-27	1	Stem-Valve
15	137-2592	2	Wheel ASM
16	137-5863	2	Hose ASM
17	137-5864	2	Hose ASM
18	138-0334	1	Hydraulic Tube ASM
18:1	237-65	1	O-Ring
19	138-0335	1	Hydraulic Tube ASM
19:1	237-65	1	O-Ring
20	138-0337	1	Hydraulic Tube ASM
20:1	237-65	1	O-Ring
21	138-0338	1	Hydraulic Tube ASM
21:1	237-65	1	O-Ring
22	340-74	4	Nut-Lock, Bulkhead
31	138-4489	1	Manifold-Steering/Lift
32	86-3010	1	Filter-Oil
33	3234-1	3	Screw-HHF



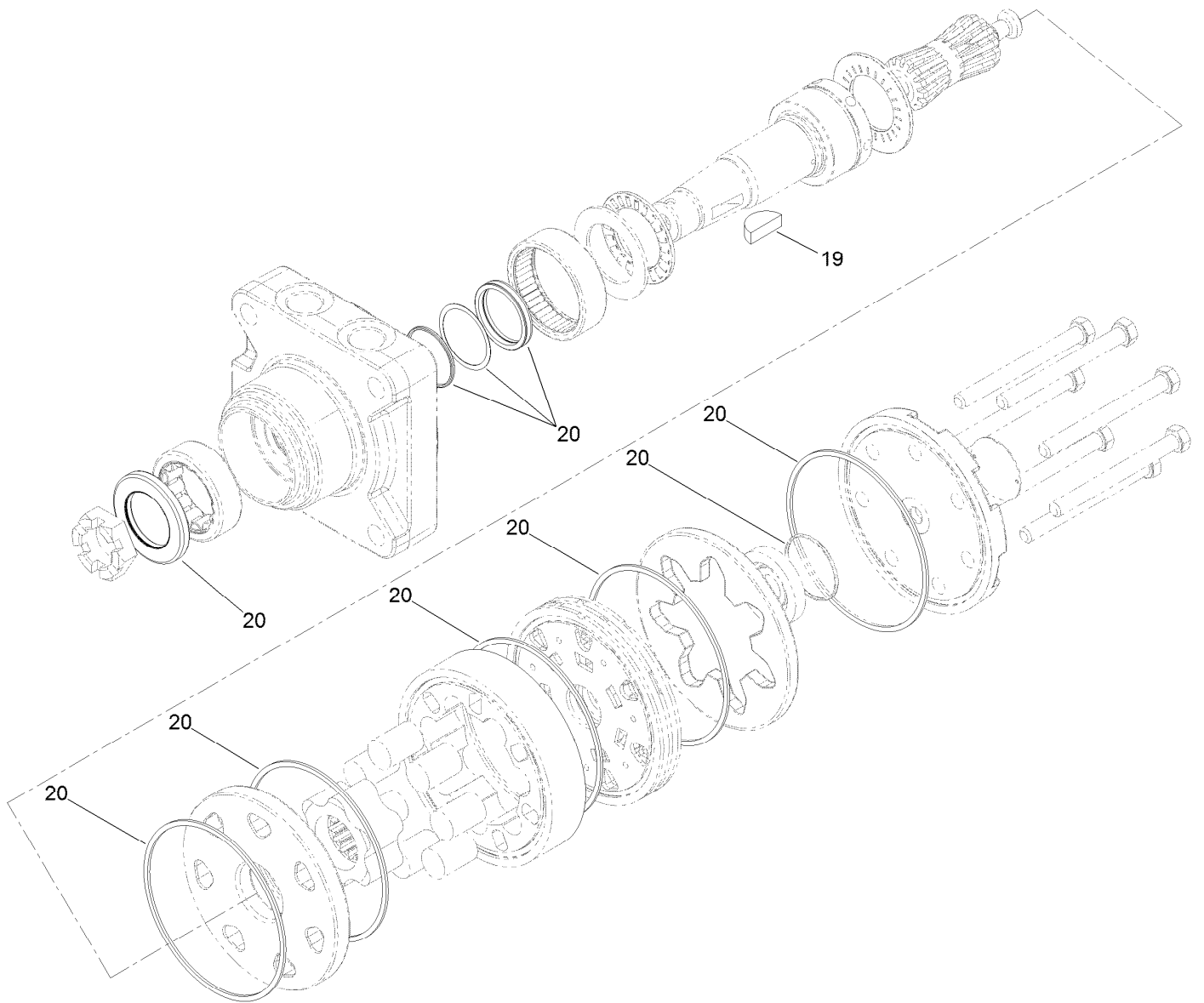
Hydraulic Motor Assembly No. 138-0303

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	110-8897	1	Seal Kit
2	3257-42	1	Key-Woodruff



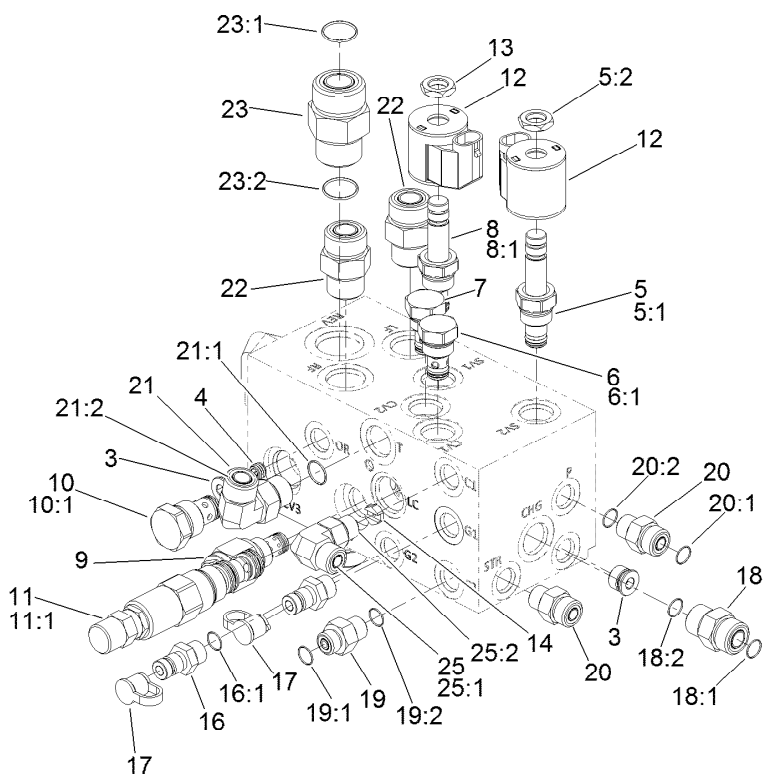
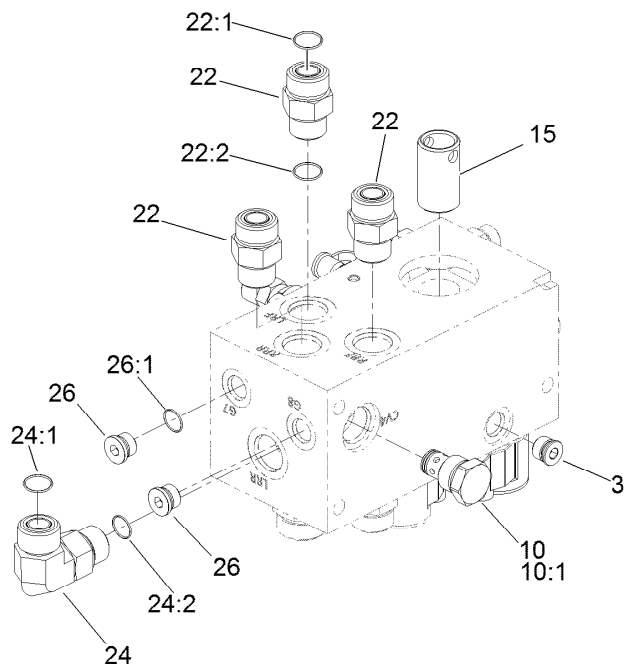
Hydraulic Motor Assembly No. 137-2458

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
19	3257-42	1	Key-Woodruff
20	110-8896	1	Seal Kit



Hydraulic Motor Assembly No. 137-2478

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
19	3257-42	1	Key-Woodruff
20	110-8896	1	Seal Kit

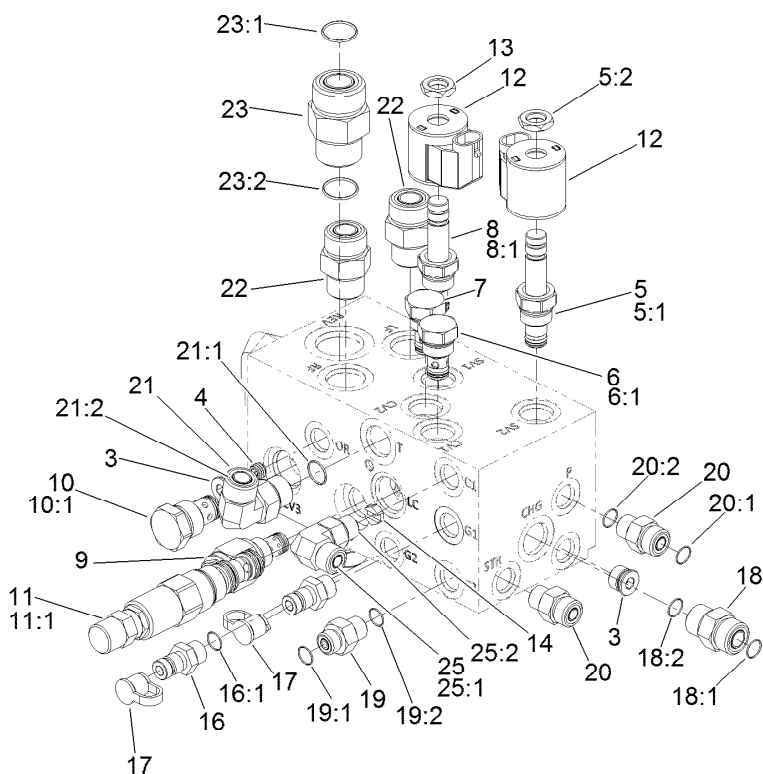
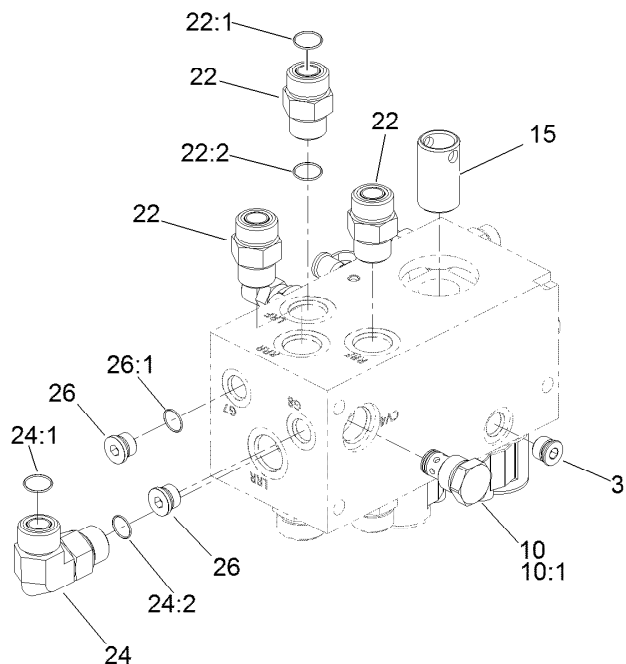


Steer/Lift Manifold Assembly No. 138-4489

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	139-6298	1	Valve-Relief (Bi-Directional)
10	110-8881	2	Valve-Check
10:1	105-9159	1	Seal Kit ●
11	144-0501	1	Valve-Logic, 220 PSI (Adjustable)
11:1	119-2159	1	Seal Kit
12	110-0497	2	Coil-Solenoid
13	110-2634	2	Nut-Coil

Ref.	Part Number	Qty.	Description
14	139-6296	1	Orifice-Check 0.100 DIA
15	139-6297	1	Nipple-Filter
16	59-7410	2	Fitting-Diagnostic
16:1	237-42	1	O-Ring
17	354-79	2	Cap-Dust
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	340-98	1	Fitting-Elbow, 90 DEG
21:1	237-79	1	O-Ring
21:2	237-30	1	O-Ring
22	340-7	5	Fitting-Straight

● Not illustrated

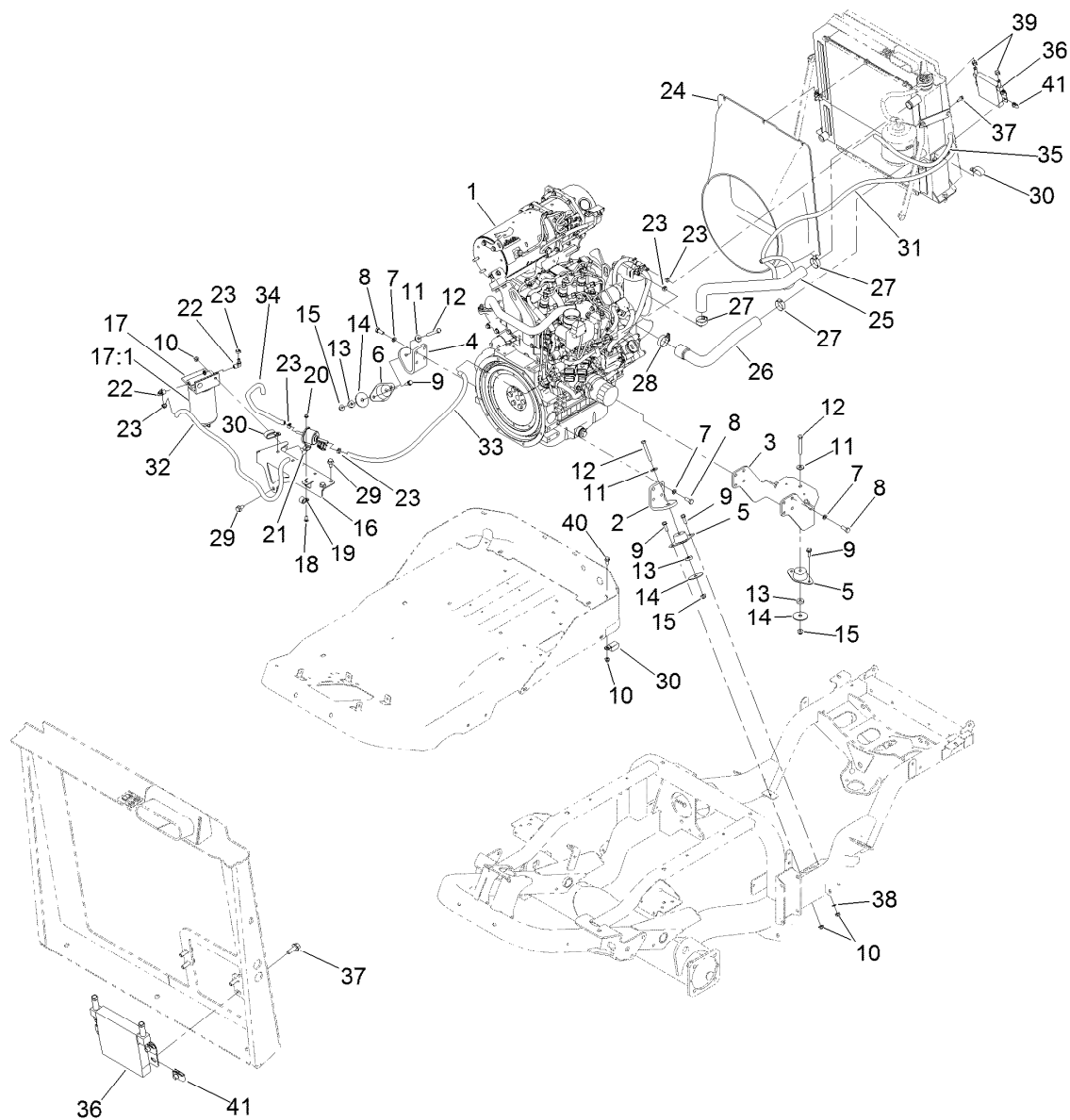


Steer/Lift Manifold Assembly No. 138-4489 (continued)

Ref.	Part Number	Qty.	Description
22:1	237-65	1	O-Ring
22:2	237-80	1	O-Ring
23	340-9	1	Fitting-STR
23:1	237-58	1	O-Ring
23:2	237-81	1	O-Ring
24	340-17	1	Fitting-Elbow, 90 DEG
24:1	237-65	1	O-Ring

Ref.	Part Number	Qty.	Description
24:2	237-80	1	O-Ring
25	340-77	1	Fitting-Elbow, 90 DEG
25:1	237-22	1	O-Ring
25:2	237-42	1	O-Ring
26	353-989	2	Plug-Hex, Hollow
26:1	237-42	1	O-Ring

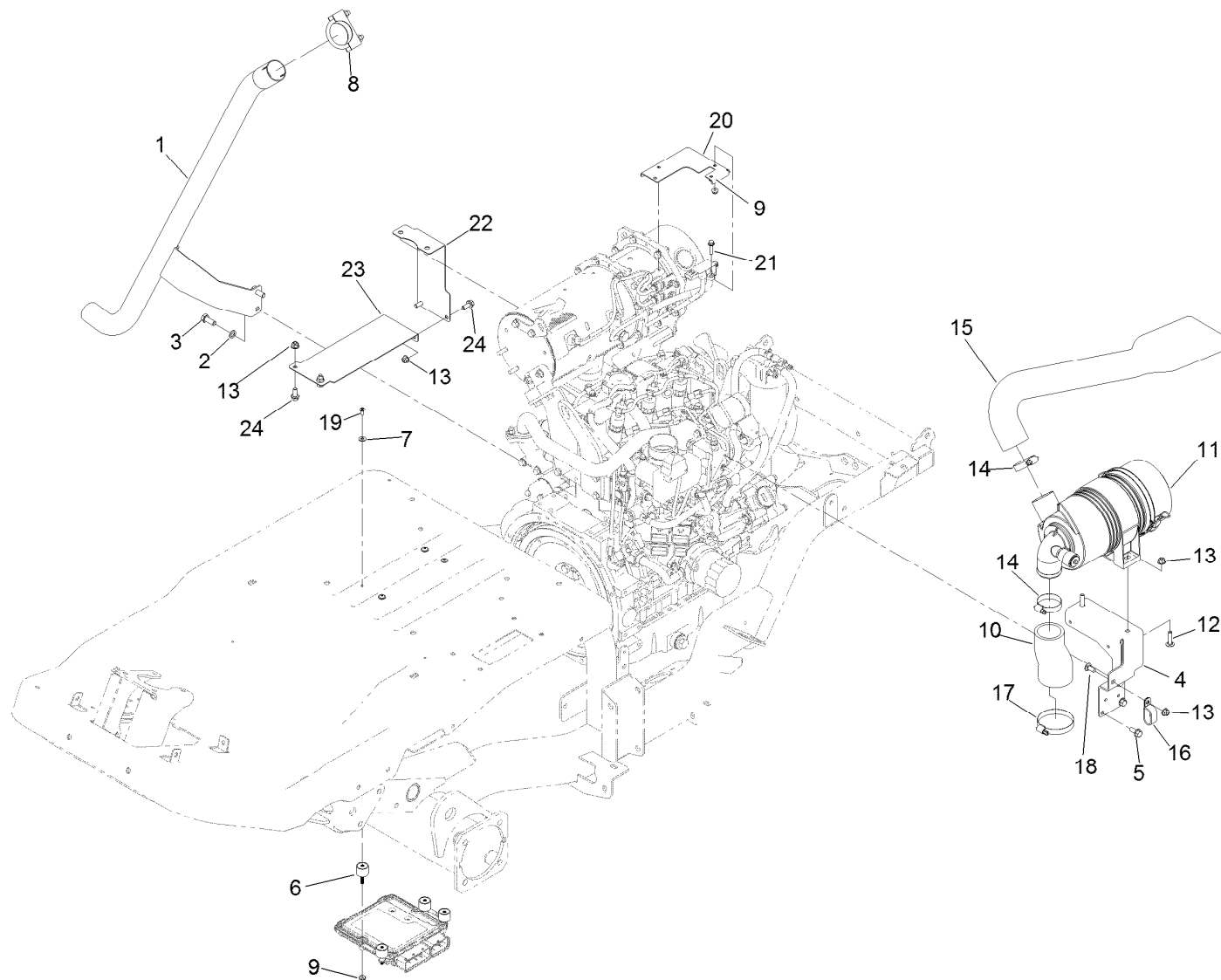
● Not illustrated



Engine and Radiator Assembly

Ref.	Part Number	Qty.	Description
1	133-6580	1	Engine-Yanmar
2	138-0409-03	1	Mount-Engine, LH Front
3	138-0410-03	1	Mount-Engine, Rear
4	138-0408-03	1	Mount-Engine, RH Front
5	120-6274	2	Mount-Engine
6	139-0856	1	Mount-Engine
7	48-9590	14	Washer-Lock
8	33115-025	14	Screw-HH
9	3234-29	6	Screw-HHF
10	104-8300	9	Nut-HF, NI
11	80-6990	3	Washer-Hardened
12	323-13	3	Screw-HH
13	62-6660	3	Spacer
14	87-5100	3	Washer-Snubbing
15	104-8301	3	Nut-HF, NI
16	138-4532-03	1	Bracket-Mount, Filter
17	125-2914	1	Filter-Separator
17:1	125-2915	1	Filter-Fuel/Water Separator
18	1-807512	2	Bolt-CARR
19	2412-87	1	Clamp-Cable
20	104-7201	2	Nut-HF

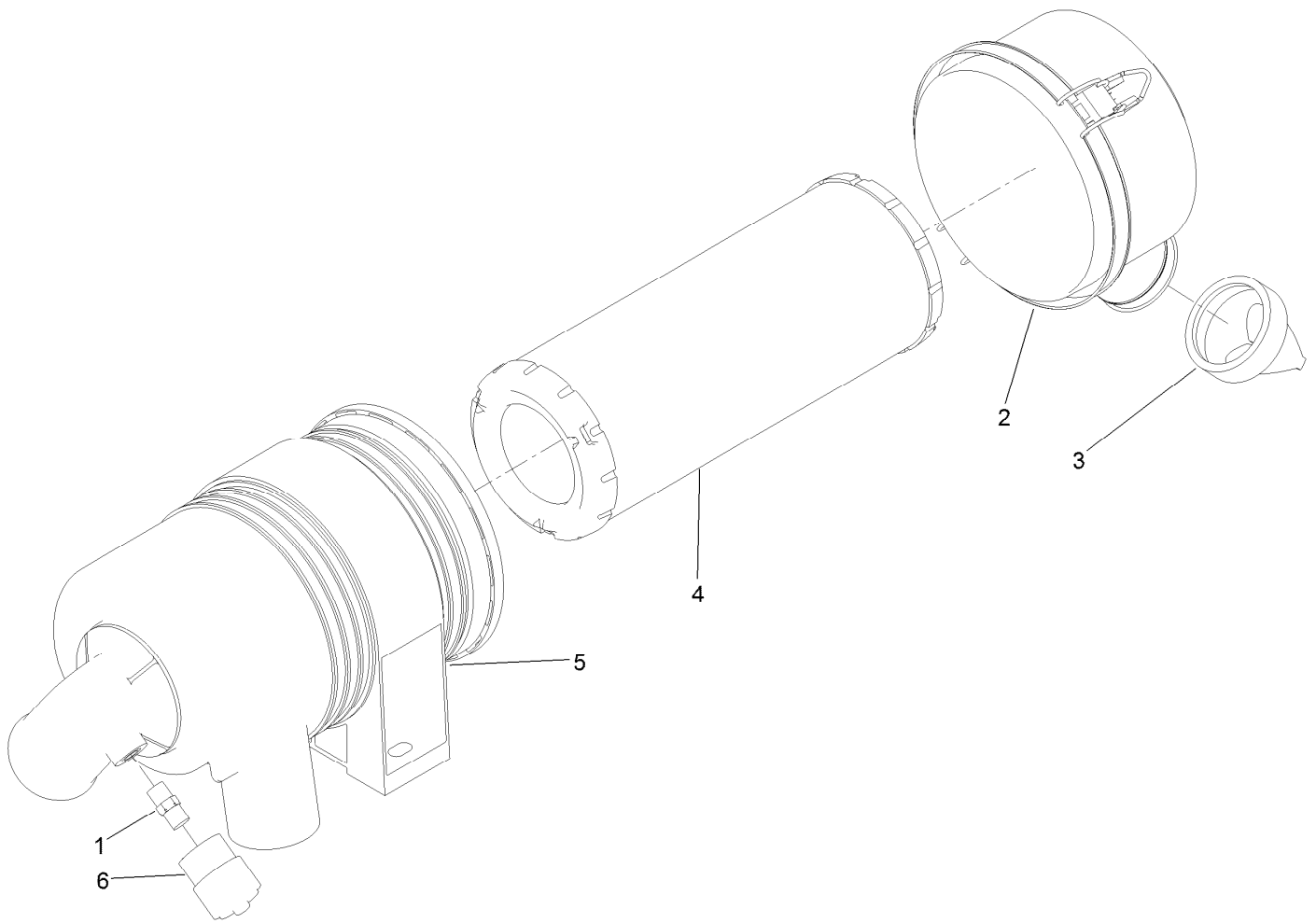
Ref.	Part Number	Qty.	Description
21	3230-10	2	Bolt-CARR
22	353-781	2	Fitting-HYD, 90
23	92-2379	6	Clamp-Hose
24	138-0419	1	Shroud-Fan
25	138-0429	1	Hose-Radiator, Upper
26	138-0430	1	Hose-Radiator, Lower
27	2412-34	3	Clamp-Hose
28	2412-3	1	Clamp-Hose
29	33105-020	4	Screw-HHF
30	120-1959	3	Clamp
31	139-6255	1	Hose-Fuel
32	126-1805	1	Hose
33	110-3257	1	Hose-Fuel
34	110-4101	1	Hose-Fuel
35	139-6276	1	Hose-Fuel
36	116-7205	1	Cooler
37	3234-4	4	Screw-HHF
38	3255-8	1	Washer-Lock
39	103-1988	2	Clamp-Hose
40	3234-47	1	Screw-HHF
41	107069	4	Clip



Air Cleaner and Exhaust Assembly

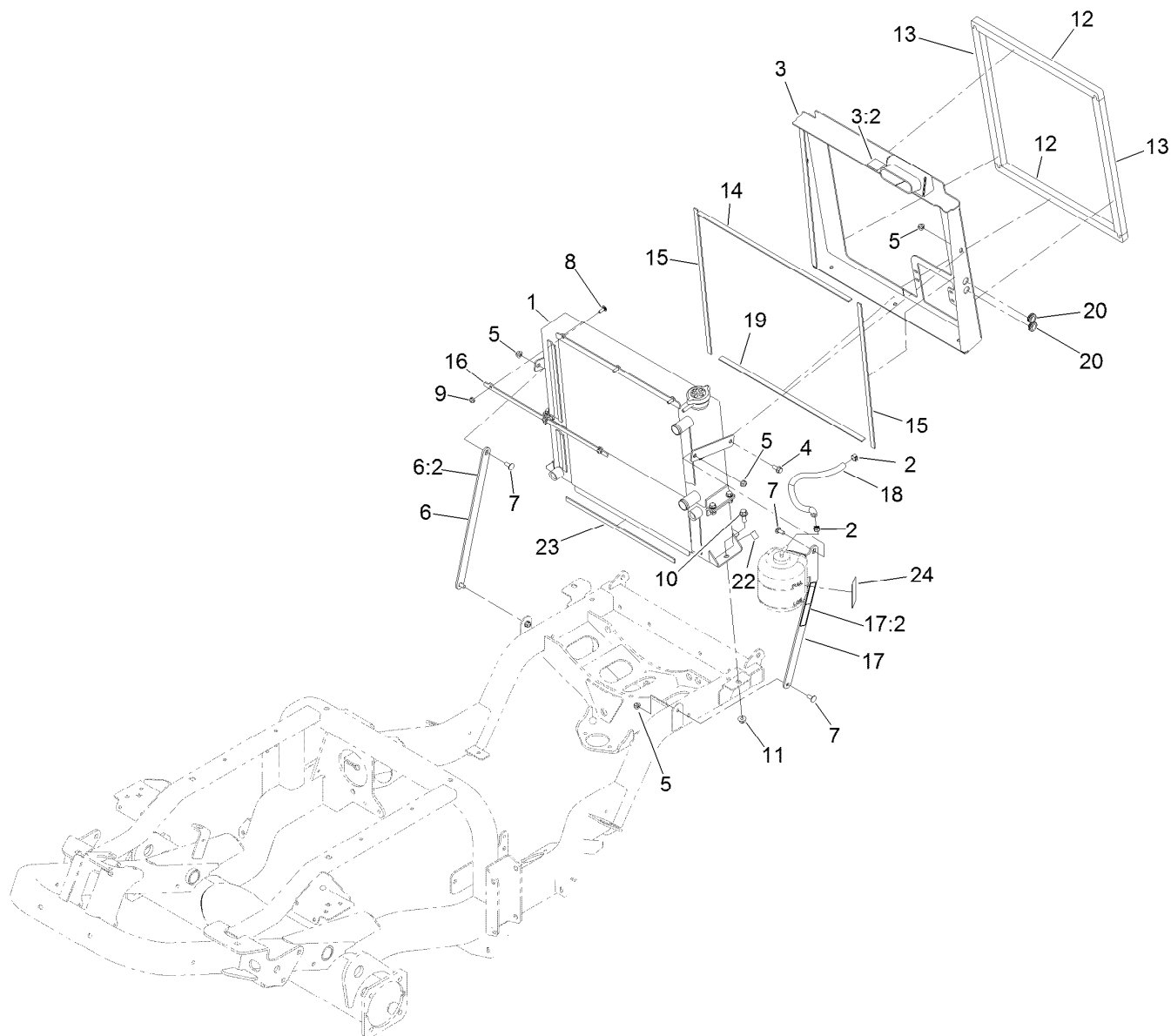
Ref.	Part Number	Qty.	Description
1	137-5888	1	Exhaust
2	48-9590	2	Washer-Lock
3	33115-025	2	Screw-HH
4	138-0432-03	1	Bracket-Filter, Air
5	33104-020	3	Screw-HHF
6	139-6176	4	Mount-ISO
7	3256-1	4	Washer-Flat
8	18-2130	1	Clamp
9	104-7201	6	Nut-HF
10	137-5809	1	Hose-Cleaner, Air
11	136-4481	1	Air Cleaner ASM
12	3230-29	2	Screw-CARR

Ref.	Part Number	Qty.	Description
13	104-8300	7	Nut-HF, NI
14	2412-130	2	Clamp-Hose
15	138-4455	1	Hose-Intake
16	120-1959	1	Clamp
17	2412-53	1	Clamp-Drive, Worm
18	3230-23	1	Bolt-CARR
19	135-6367	4	Screw-HSBH
20	139-6181-03	1	Bracket-Sensor, Dpf
21	120-4654	2	Screw-HHF
22	139-6185	1	Bracket-Heat Shield, Rear
23	139-6184	1	Bracket-Heat Shield, Lower
24	3234-47	4	Screw-HHF



Air Cleaner Assembly No. 136-4481

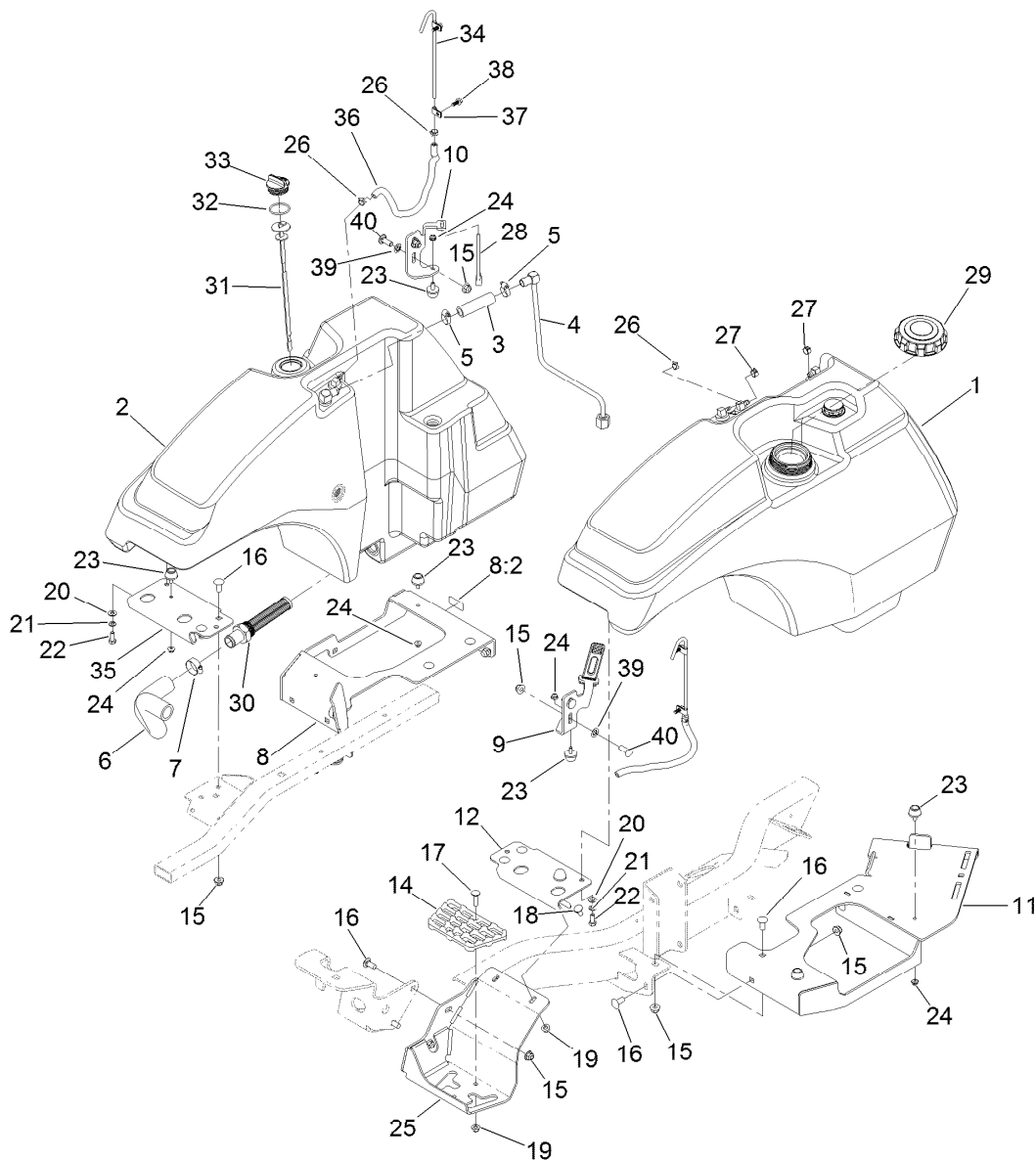
Ref.	Part Number	Qty.	Description
1	94-1416	1	Adapter-Indicator
2	98-9771	1	Cover ASM
3	94-1414	1	Valve-Vacuator
4	108-3810	1	Filter-Air
5	98-4525	1	Bracket-Cleaner, Air
6	93-9164	1	Indicator-Mini



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
10	3234-42	2	Screw-HHF
11	104-8301	2	Nut-HF, NI

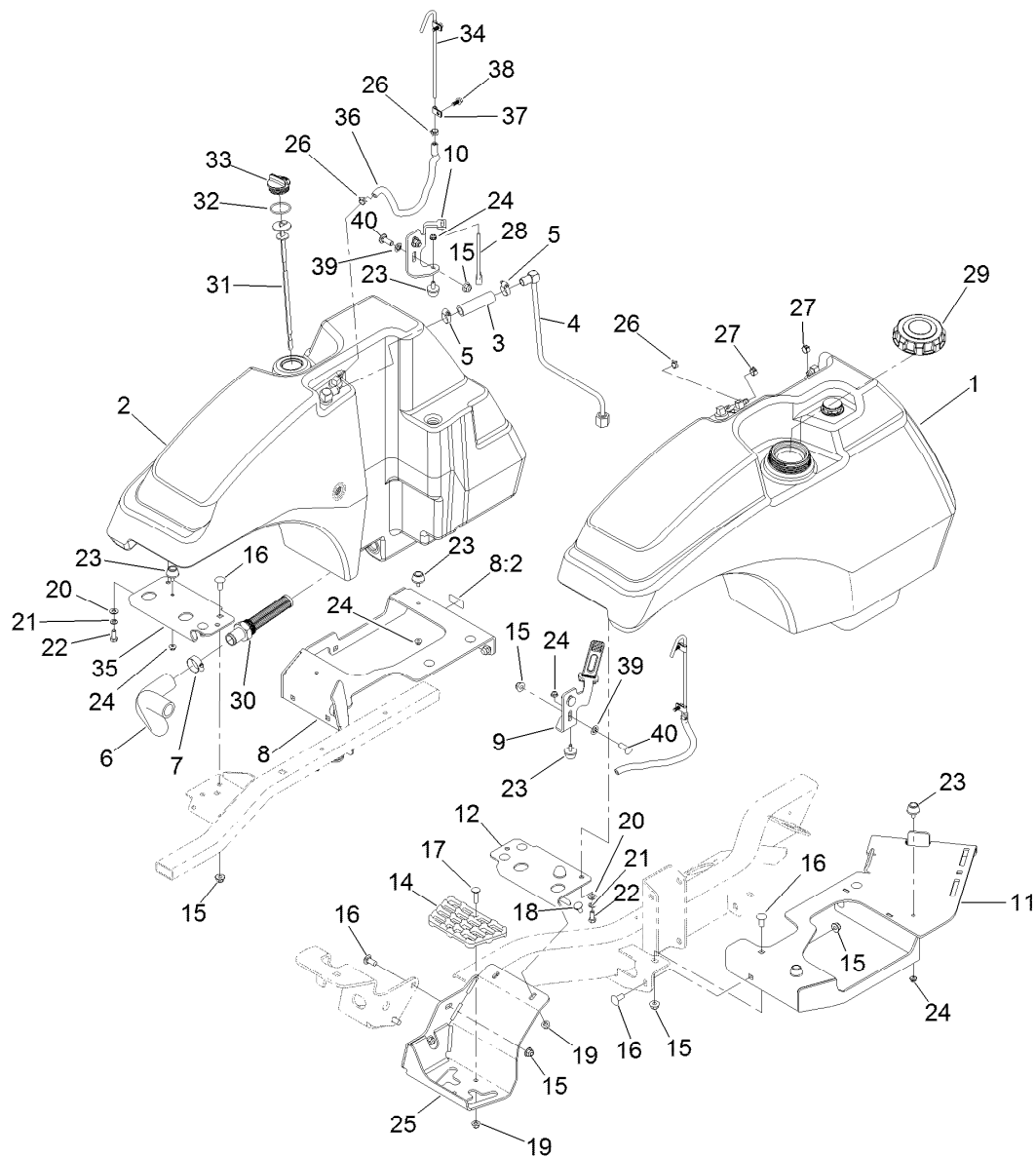
Ref.	Part Number	Qty.	Description
12	138-4410	2	Seal-Foam
13	138-4411	2	Seal-Foam
14	138-4453	1	Foam-Radiator
15	138-4454	2	Foam-Radiator, Side
16	138-4461-03	1	Bracket-Retainer, Shroud
17	139-6230	1	Bracket-Bottle Mount
17:2	93-7272	1	Decal-Warning
18	106-1126	1	Hose-Fuel
19	108-1393	1	Strip-Foam
20	MSC14544	2	Grommet
22	140-5841	2	Trim-Cooler
23	130-9182	1	Foam-Radiator, Short
24	144-0472	1	Decal-Coolant Level



Fuel and Hydraulic Tank Assembly

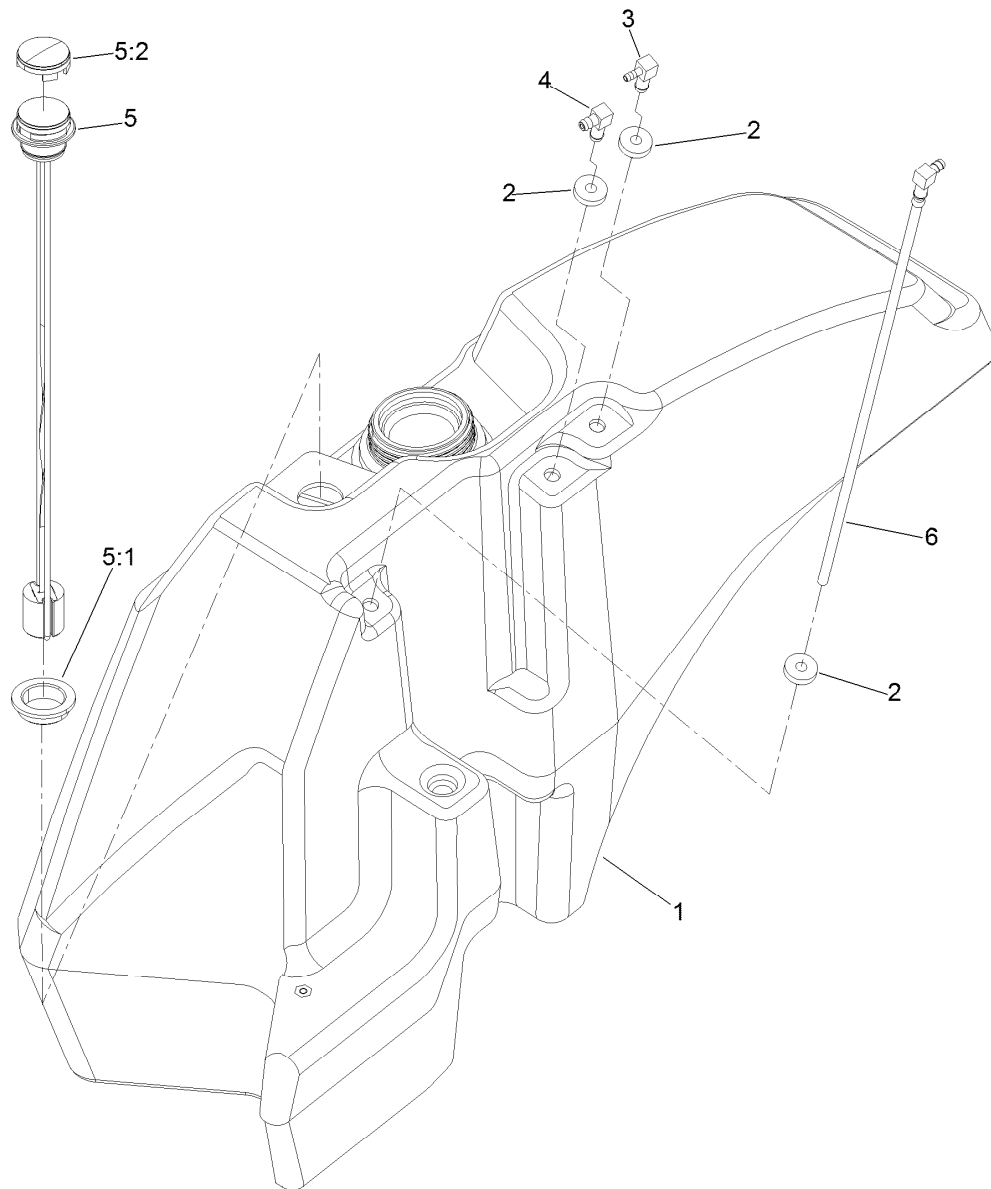
Ref.	Part Number	Qty.	Description
1	138-0291	1	Fuel Tank
2	138-4418	1	Hydraulics Tank ASM
3	114-4920	1	Hose
4	138-7392	1	Hydraulic Tube ASM
5	2412-119	2	Clamp-Hose, Worm Drive
6	138-7361	1	Hose-Suction
7	2412-34	1	Clamp-Hose
8	139-6228	1	Tank Support-Hydraulic
8:2	127-0392	1	Decal-Hot Surface
9	138-0441-03	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
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



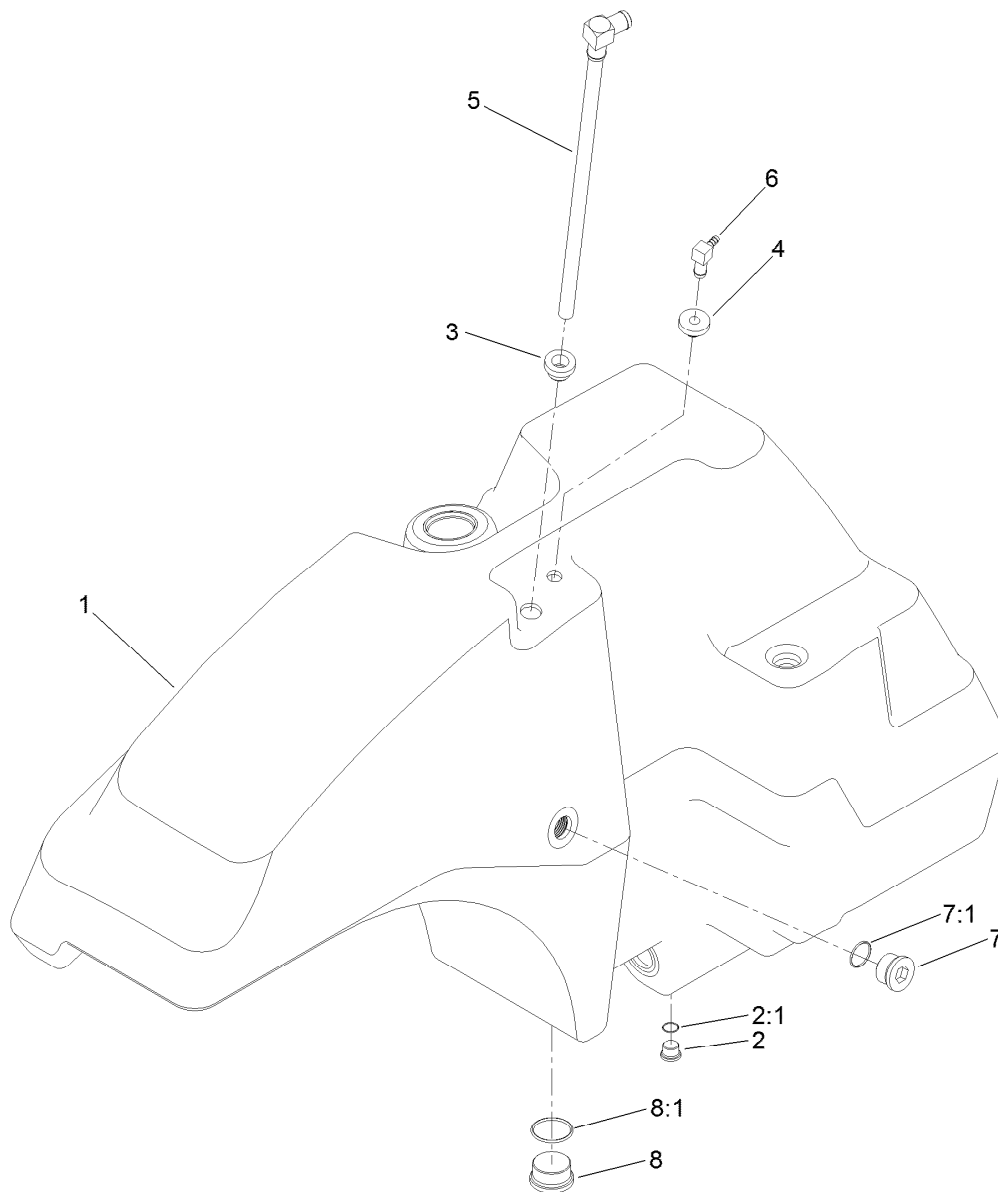
Fuel and Hydraulic Tank Assembly (continued)

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



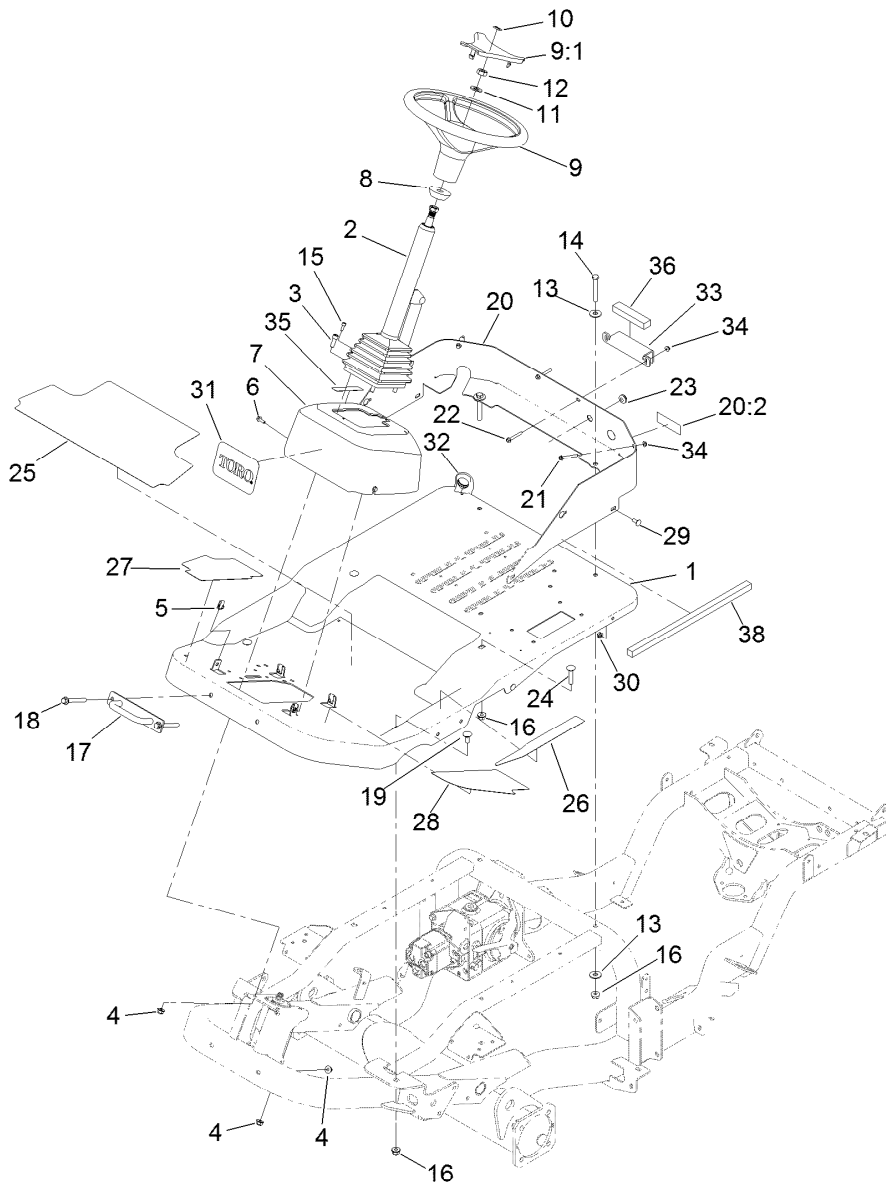
Fuel Tank Assembly No. 138-0291

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

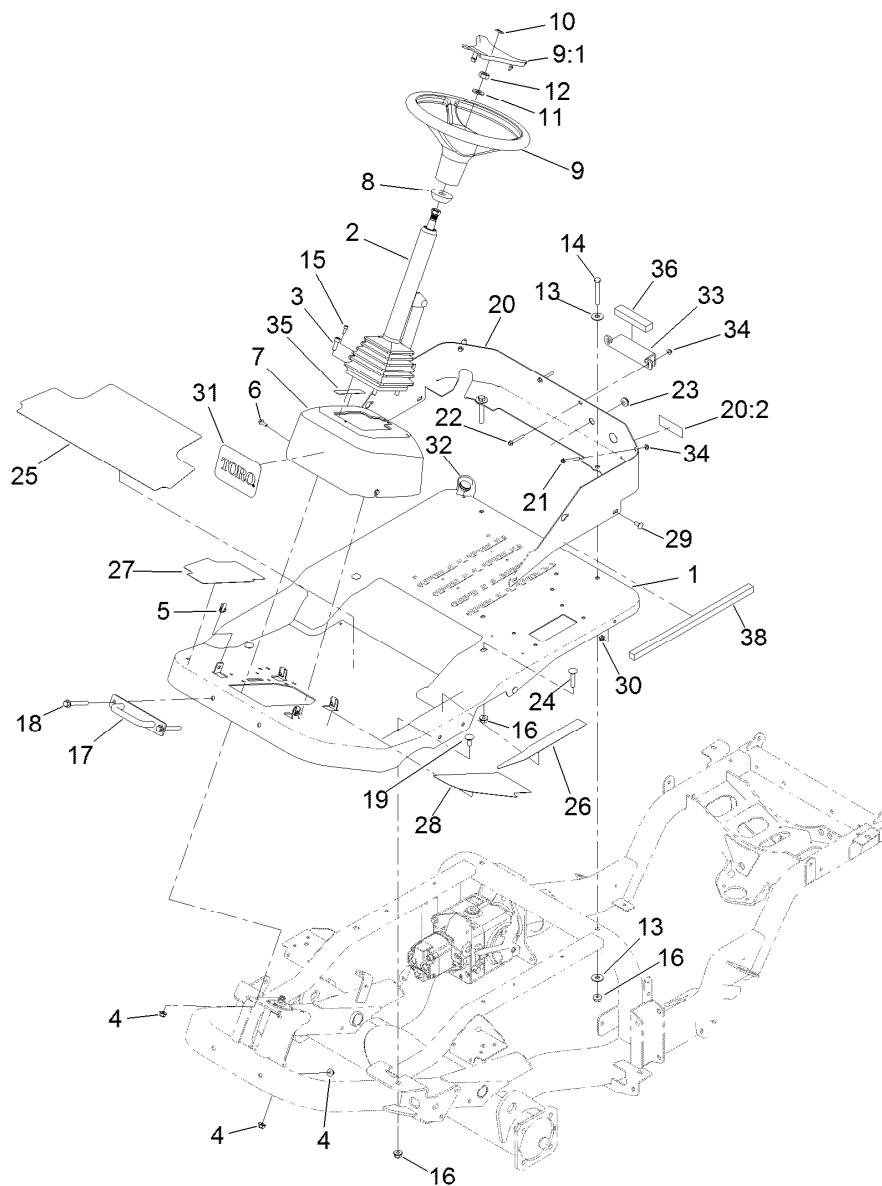


Platform, Steering and Console Assembly

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

Ref.	Part Number	Qty.	Description
18	3234-41	2	Screw-HHF
19	3232-1	2	Screw-CARR
20	139-6233	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	139-1972	1	Plug-Harness, Firewall
33	139-2166-03	1	Bracket-Hood Support
34	104-7201	4	Nut-HF

● Not illustrated

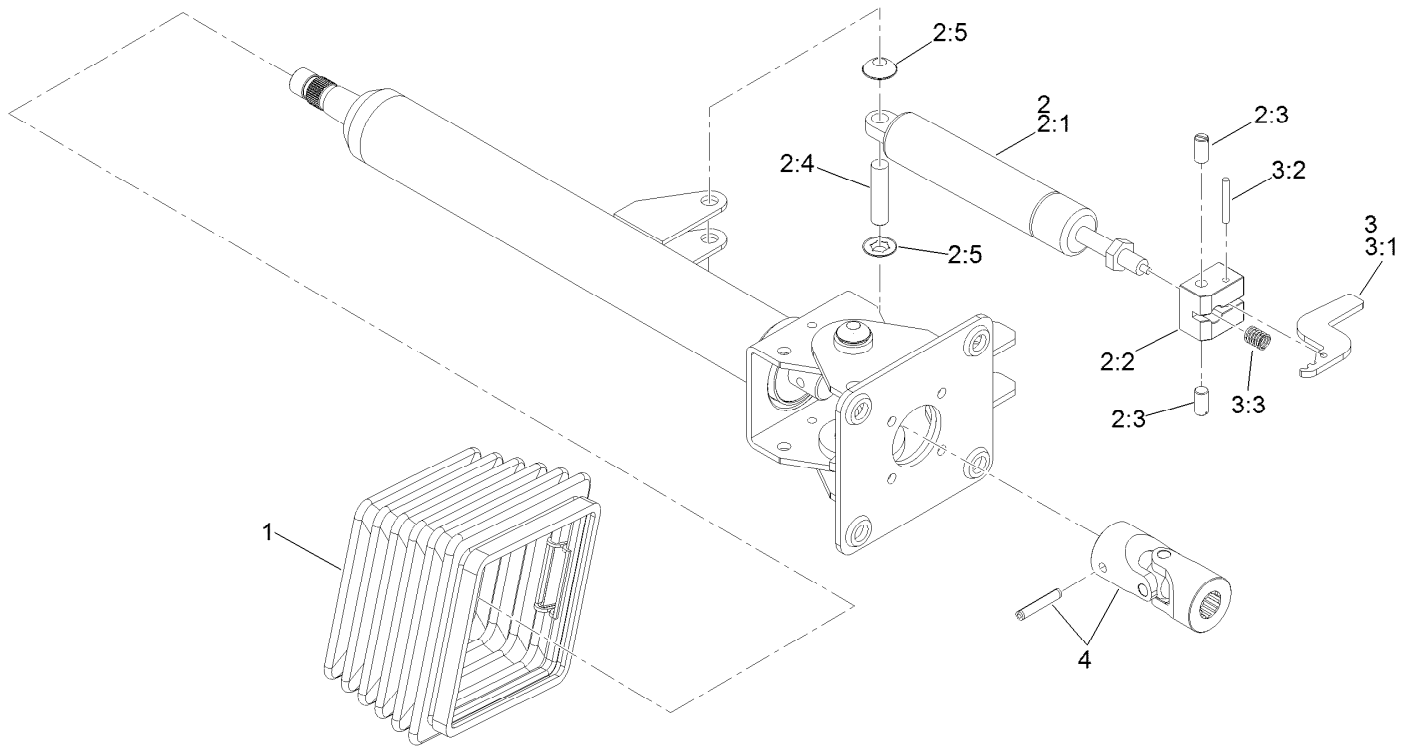


Platform, Steering and Console Assembly (continued)

Ref.	Part Number	Qty.	Description
35	140-1460	1	Decal-Traction Pedal

Ref.	Part Number	Qty.	Description
36	139-6202	1	Foam-Strip
38	139-6207	1	Foam-Strip

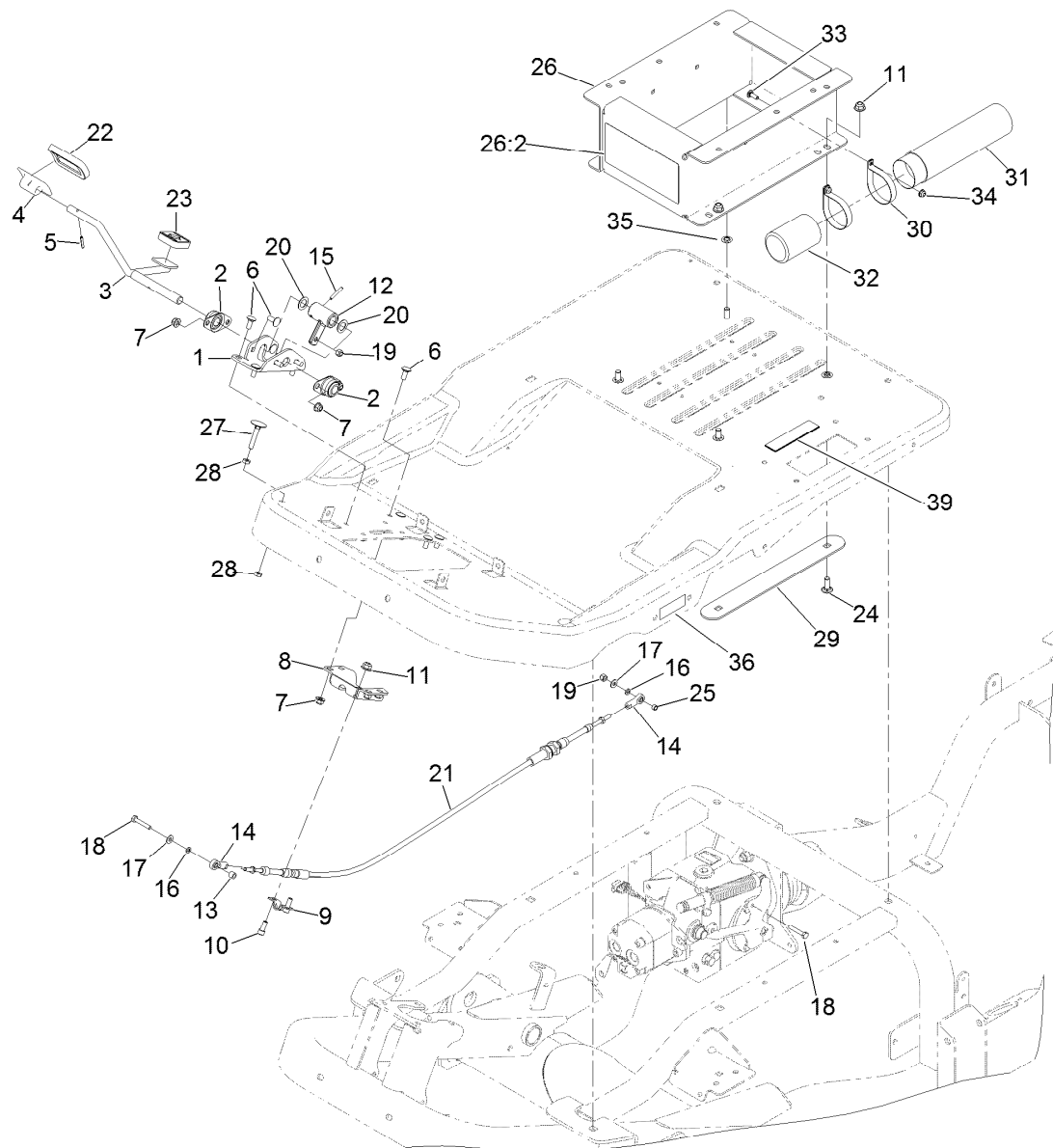
● Not illustrated



Steering Column Assembly No. 139-0857

Ref.	Part Number	Qty.	Description
1	110-6462	1	Bellows-Rubber
2	110-6463	1	Cylinder Service Kit
2:1		1	Cylinder-Gas ●
2:2		1	Block-Pedal ●
2:3		2	Bolt ●
2:4		1	Pin ●
2:5		2	Washer-Lock ●
3	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

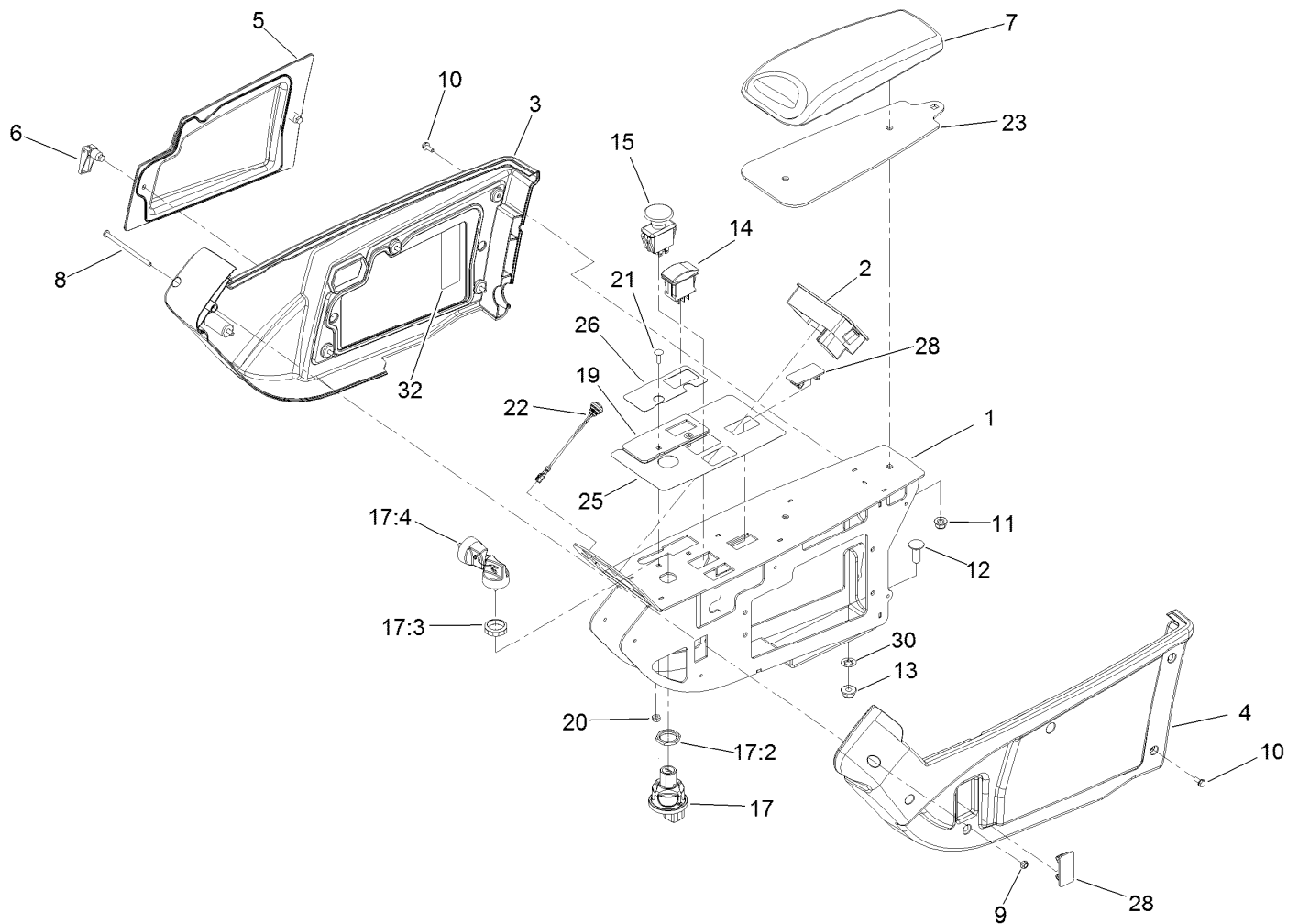
● Not serviced separately



Traction Pedal Assembly

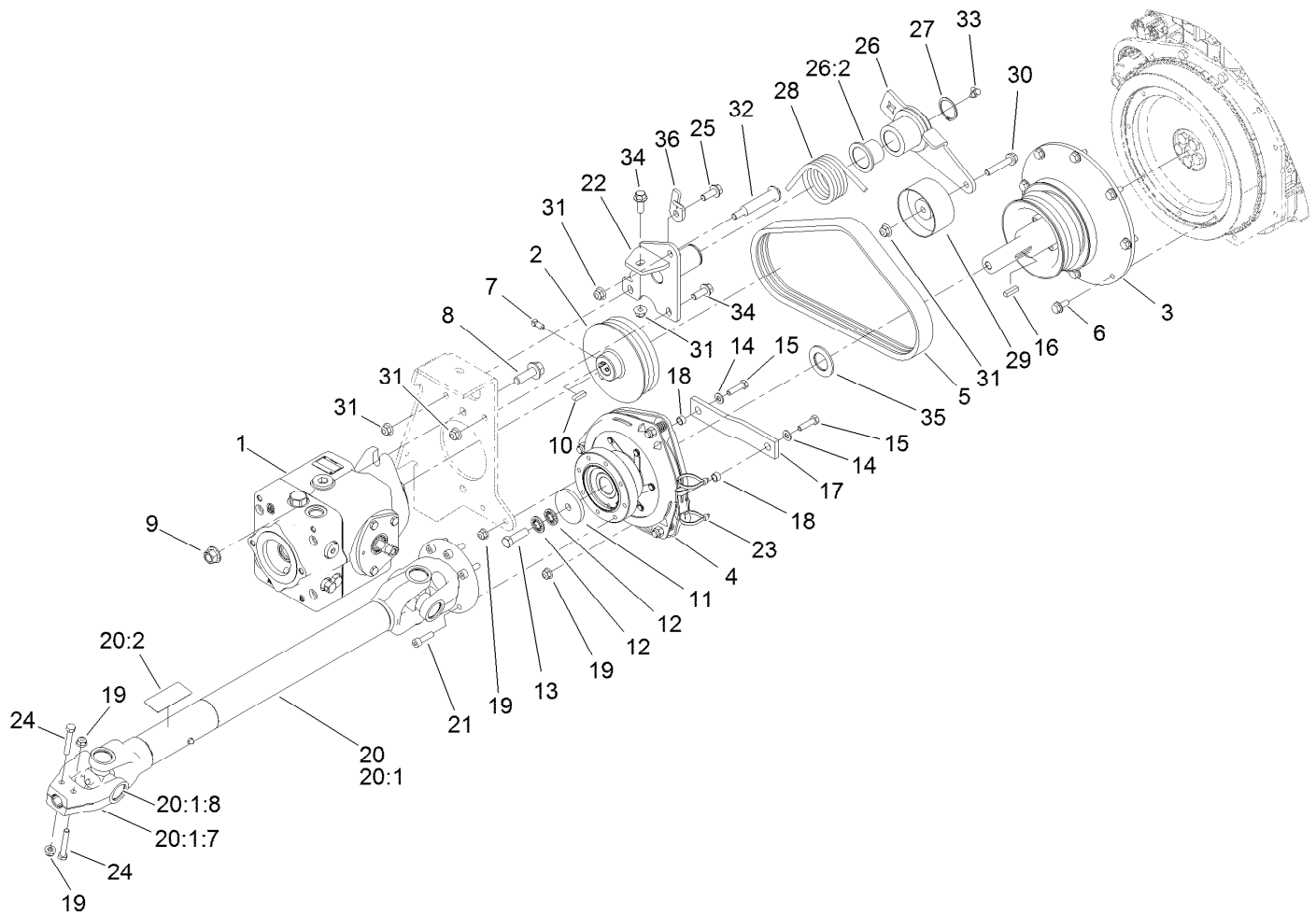
Ref.	Part Number	Qty.	Description
1	138-7477-01	1	Bracket-Pedal, Traction
2	256-236	2	Bearing-Mount, Flange
3	138-4594	1	Pedal-Traction
4	117-9507	1	Pedal-Accelerator
5	32121-45	1	Pin-Spring
6	3230-23	12	Bolt-CARR
7	104-8300	12	Nut-HF, NI
8	138-7446-01	1	Bracket-Cable, Traction
9	93-2092	1	Clamp-Cable
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

Ref.	Part Number	Qty.	Description
20	137-2601	2	Washer
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-Jam
29	138-7422-01	2	Strip-Mount, Seat
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
35	107-3154	4	Nut-Push
36	106-9206	2	Decal-Torque, Wheel
39	133-8062	1	Decal-Arrestor, Spark



Control Console Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	133-6406-03	1	Panel	15	93-9999	1	Switch-PTO
2	132-9751	1	Tdm 2001	17	121-5159	1	Ignition Switch ASM
3	108-7605	1	Cover-RH	17:2	121-5160	1	Nut-Hex
4	108-7604	1	Cover-LH	17:3	121-5161	1	Nut-Face
5	108-7616	1	Panel-Access	17:4	121-5162	1	Set-Key, Ignition
6	74-5950	2	Latch-Swell	19	137-2511	1	Cover-Throttle, Switch
7	131-9637	1	Armrest-Quick Find	20	3296-2	2	Nut-Lock, NI
8	3250-22	1	Screw-PPH	21	1-807533	2	Bolt-CARR
9	3296-12	1	Nut-Lock, NI	22	136-9678	1	Switch-Pushbutton
10	32144-112	10	Screw-HWH	23	138-4548-03	1	Plate-Spacer, Console Pad
11	104-8300	2	Nut-HF, NI	25	138-7471	1	Decal-Console
12	3231-22	2	Screw-CARR	26	138-7472	1	Decal-Throttle
13	104-8301	2	Nut-HF, NI	28	99-7420	2	Plug-Hole
14	100-1535	2	Switch-Rocker, (On)-Off-(On)	30	107-3154	2	Nut-Push
				32	140-3126	1	Decal-Fuse

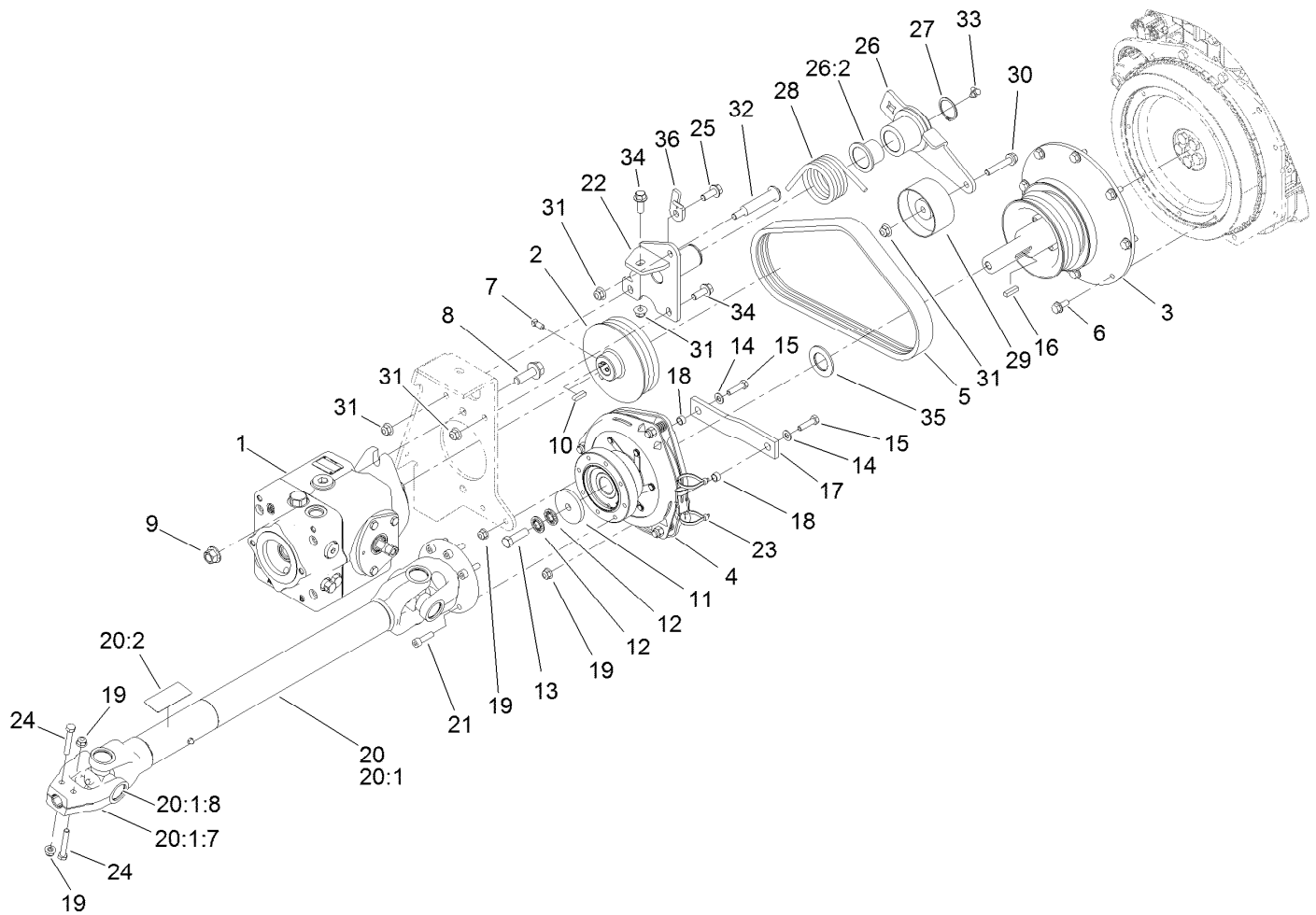


Hydraulic PTO Assembly

Ref.	Part Number	Qty.	Description
1	138-0305	1	Variable Piston Pump ASM
2	139-6257	1	Pulley-3/3V
3	139-6258	1	Stubshaft-3/3V
4	139-6165	1	Clutch
5	139-6259	1	Belt-3/3V
6	138-0690	8	Screw-HH
7	1-803022	2	Screw-Set
8	100-6116	2	Screw-HHF
9	99-5107	2	Nut-Lock
10	94-3645	1	Key
11	139-6238	1	Washer
12	1-603610	2	Washer-Spring
13	109-9761	1	Screw-HH
14	3256-23	2	Washer-Plain
15	322-6	2	Screw-HH
16	1-807259	1	Key
17	139-6278	1	Strap-Clutch Stop
18	65-9820	2	Spacer

Ref.	Part Number	Qty.	Description
19	104-8300	5	Nut-HF, NI
20	139-6292	1	Driveshaft ASM
20:1		1	Shaft-Drive ●
20:1:7	144-0468	1	Yoke-End, Splined
20:1:8	144-0550	2	Bearing-Cross Joint
20:2	139-6304	1	Decal-Danger, Entanglement
21	144-0452	6	Screw-Hex Socket
22	140-3091	1	Idler Pivot ASM
23	3290-378	2	Tie-Cable
24	112-3305	2	Screw-HH
25	3234-24	1	Screw-HHF
26	140-3100	1	Idler Arm ASM
26:2	93-4510	2	Bushing-Caster
27	32120-84	1	Ring-Snap, External
28	140-3102	1	Spring-Torsion
29	140-3101	1	Pulley-Flat
30	108-3742	1	Screw-HHF

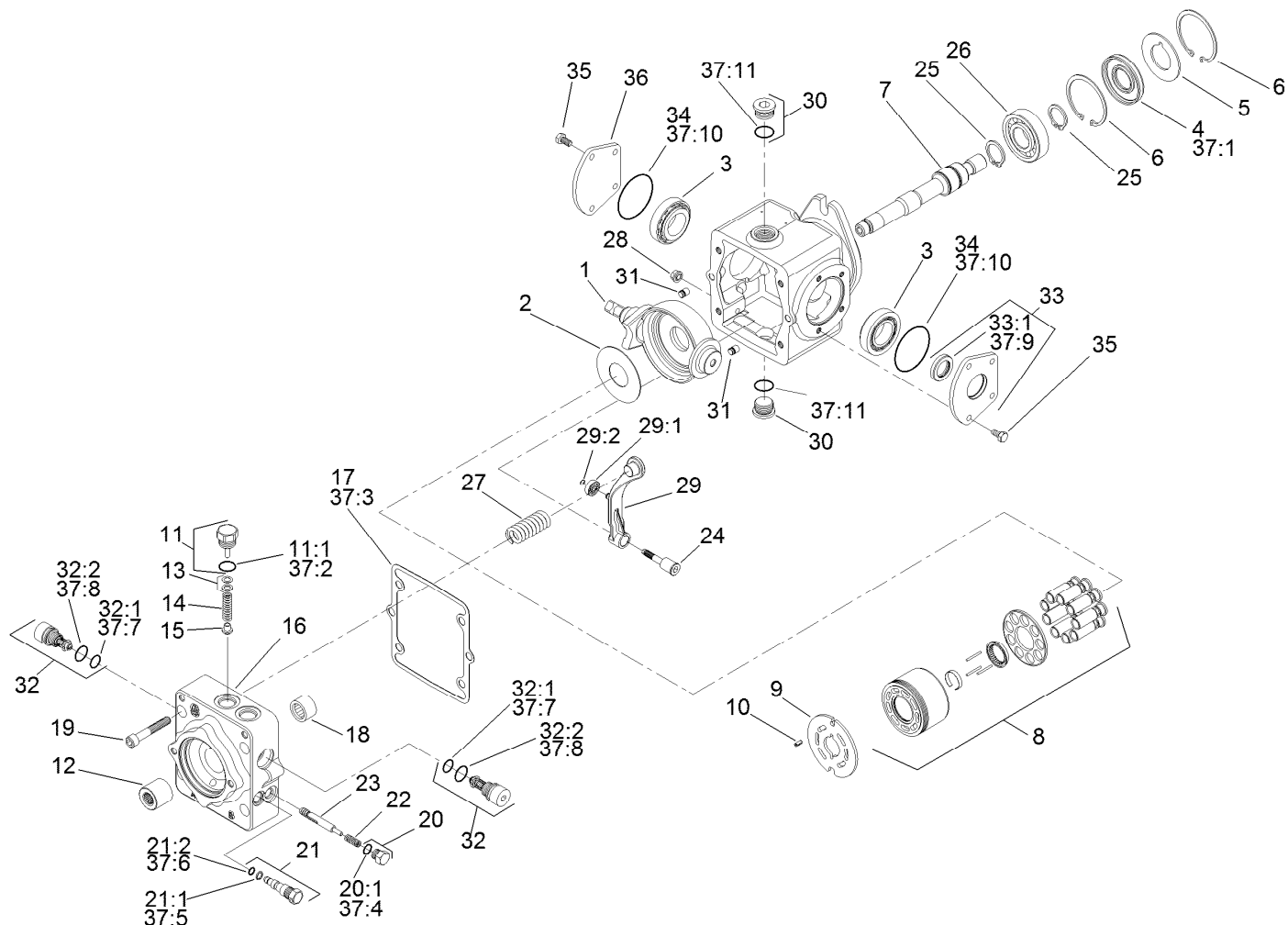
● Not serviced separately



Hydraulic PTO Assembly (continued)

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
31	104-8301	5	Nut-HF, NI	34	3234-42	2	Screw-HHF
32	112-3977	1	Bolt-Shoulder	35	139-6239	1	Washer
33	302-40	1	Fitting-Grease, 90 DEG	36	144-0477	1	Tab-Spring Retainer

● Not serviced separately



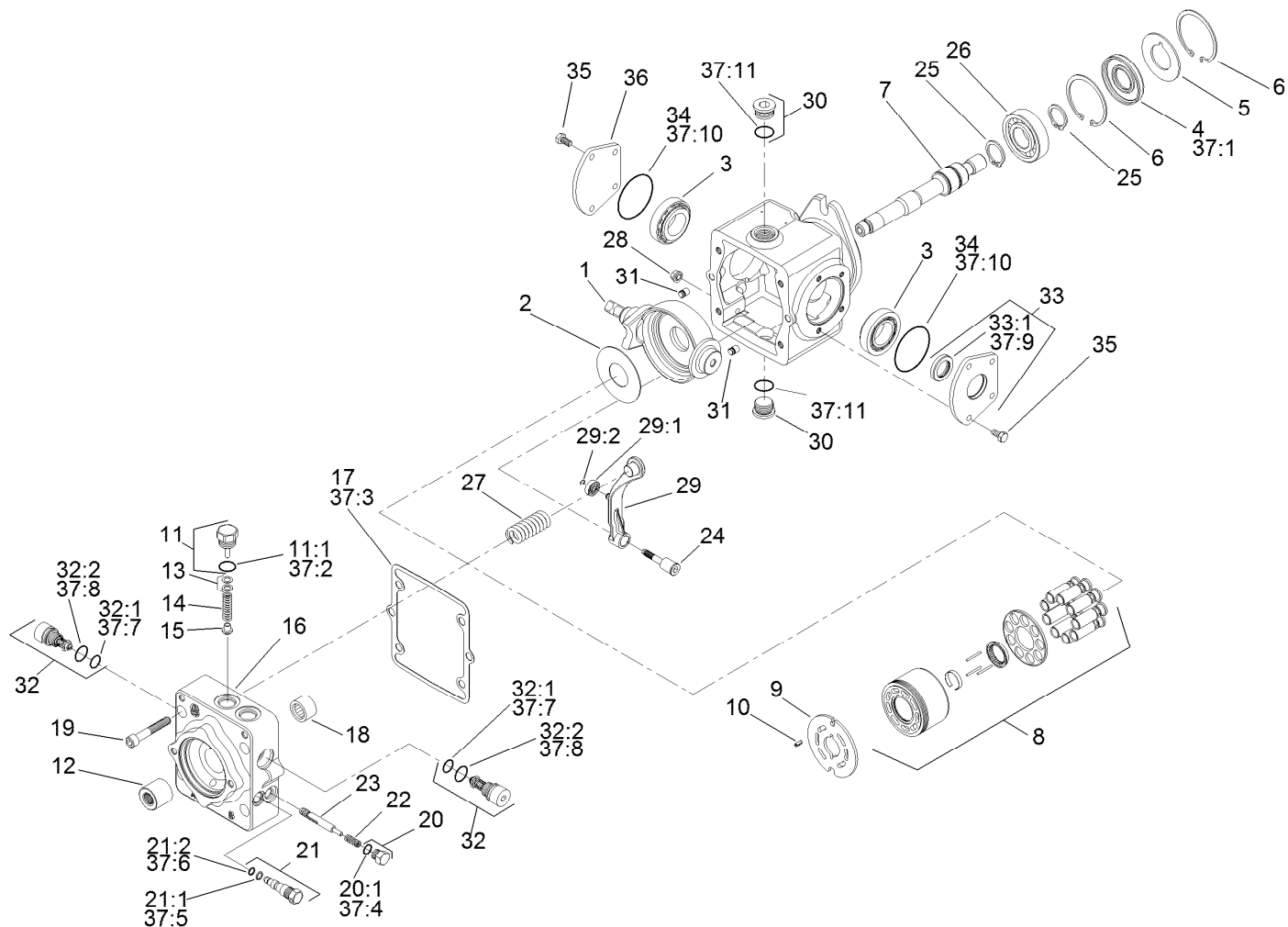
Variable Piston Pump Assembly No. 138-0305

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



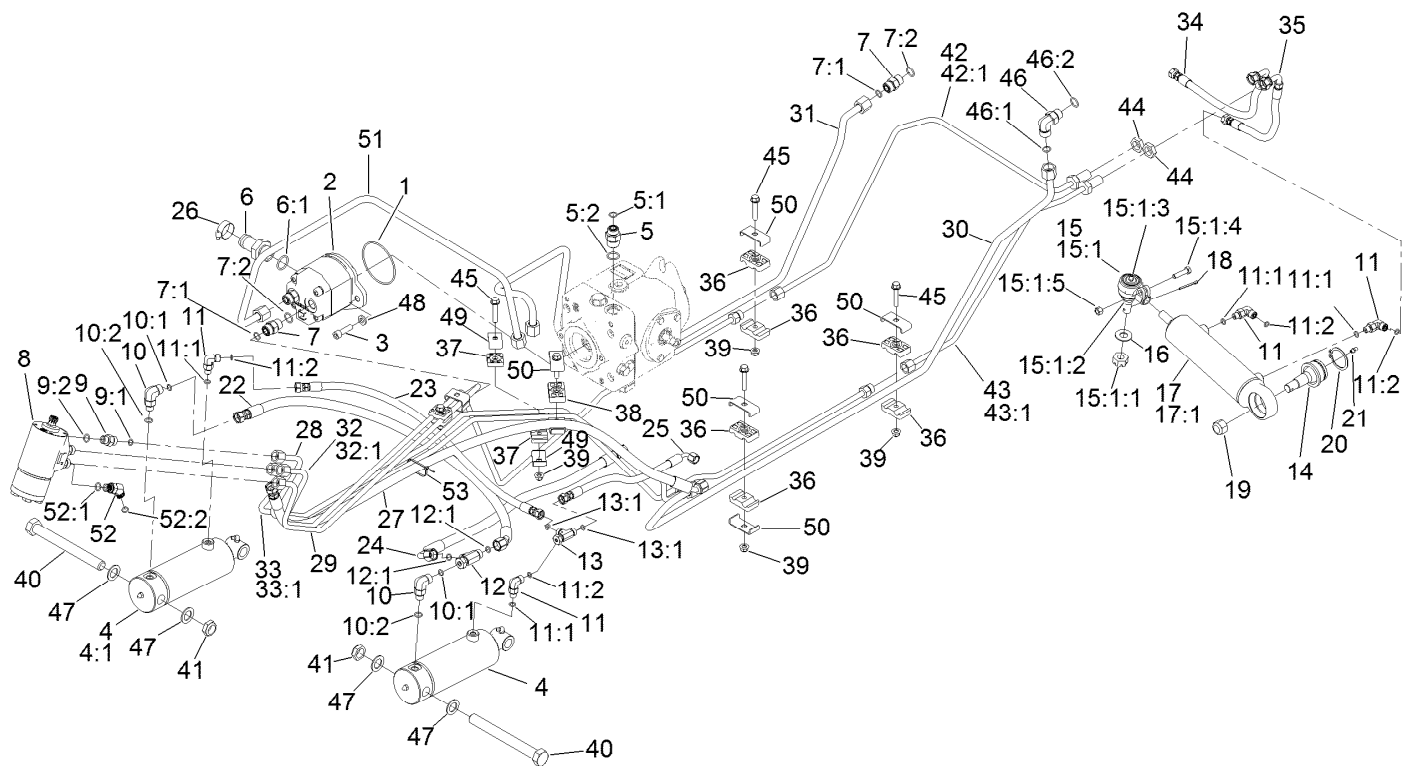
Variable Piston Pump Assembly No. 138-0305 (continued)

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

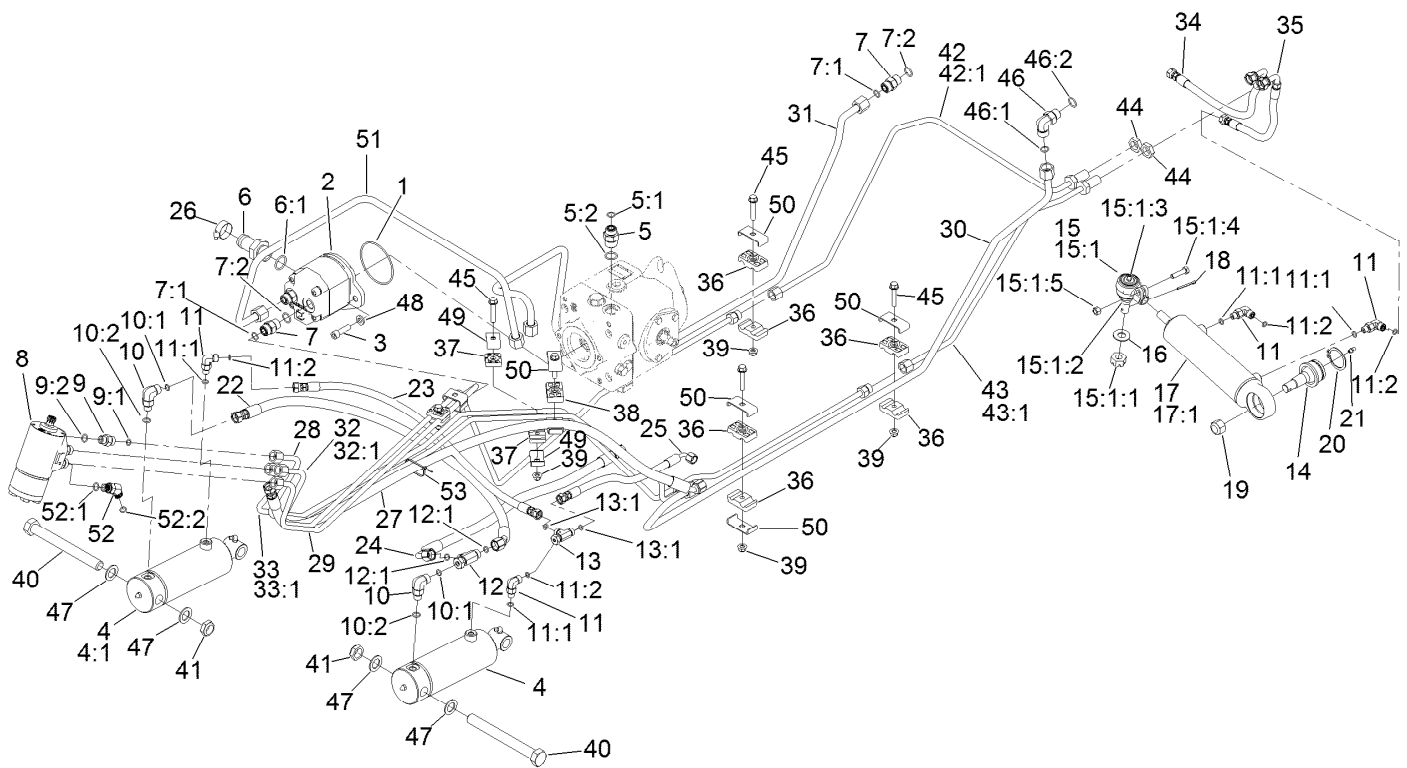


Hydraulic Assembly

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	Seal Kit
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 serviced separately

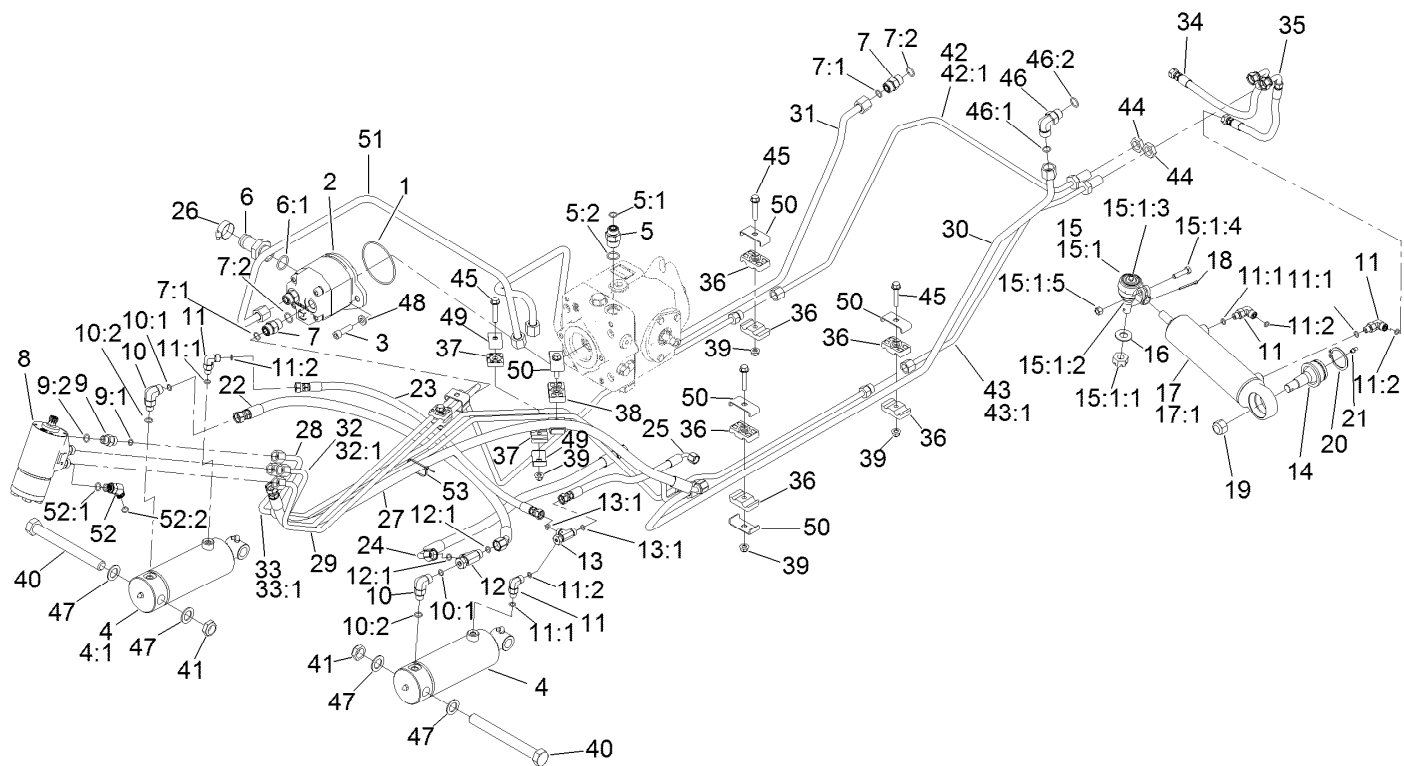


Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
17	139-6277	1	Steering Cylinder
17:1	140-3120	1	Seal-Kit
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 serviced separately

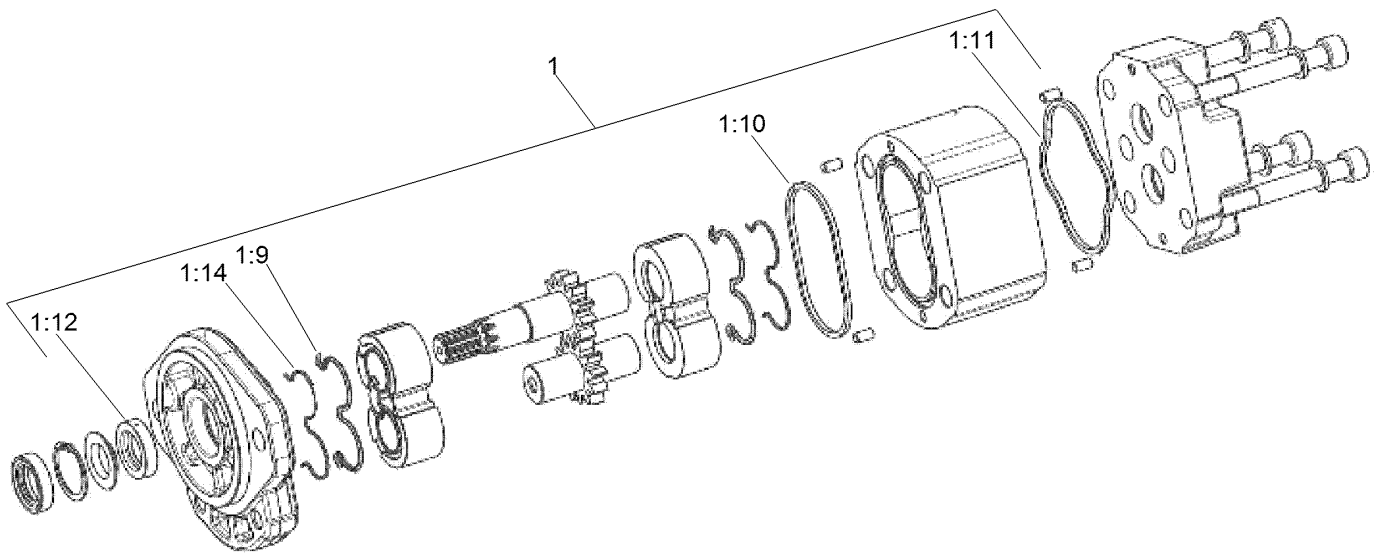


Hydraulic Assembly (continued)

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	1	Tie-Cable

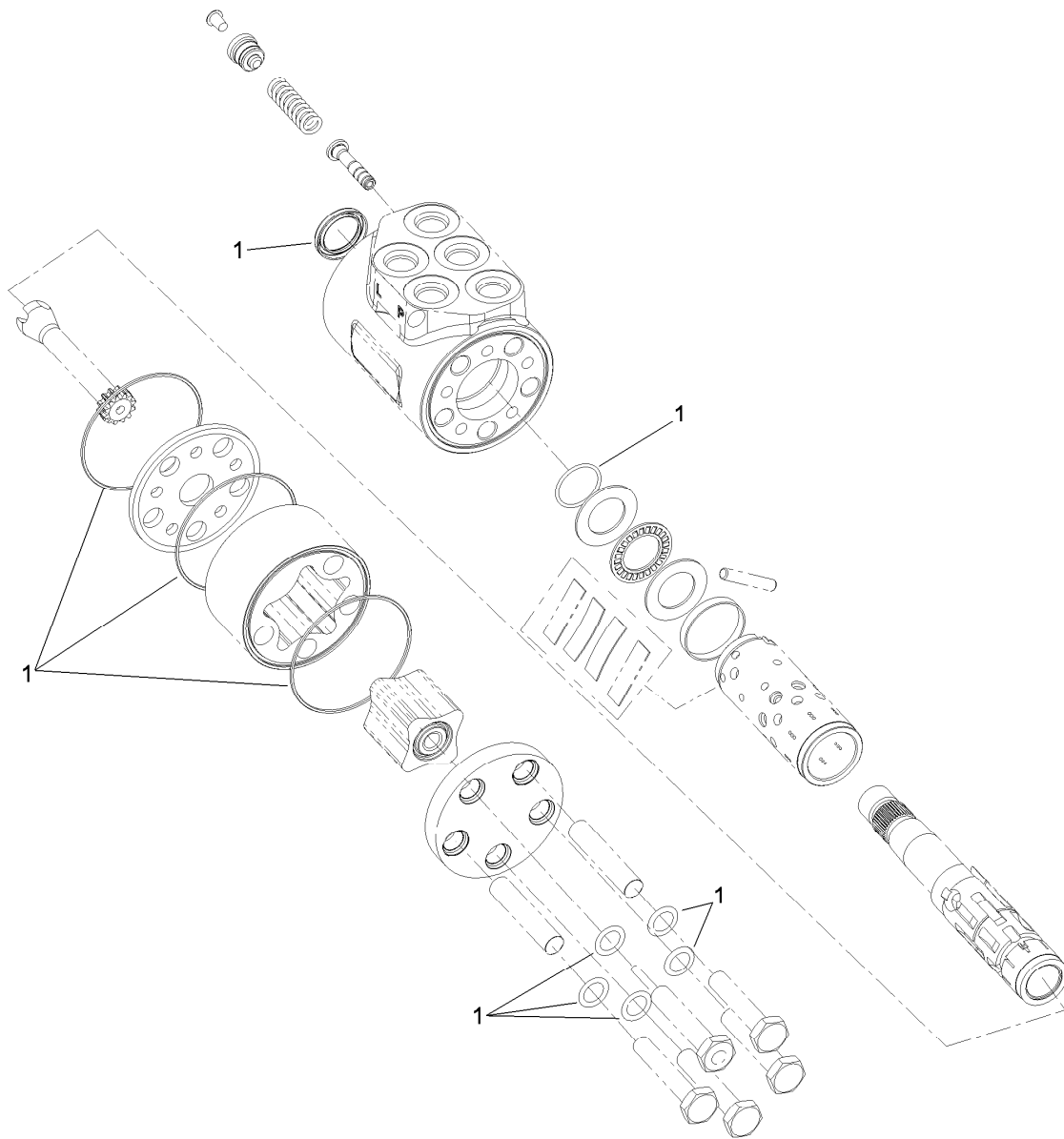
● Not serviced separately



Gear Pump Assembly No. 138-0321

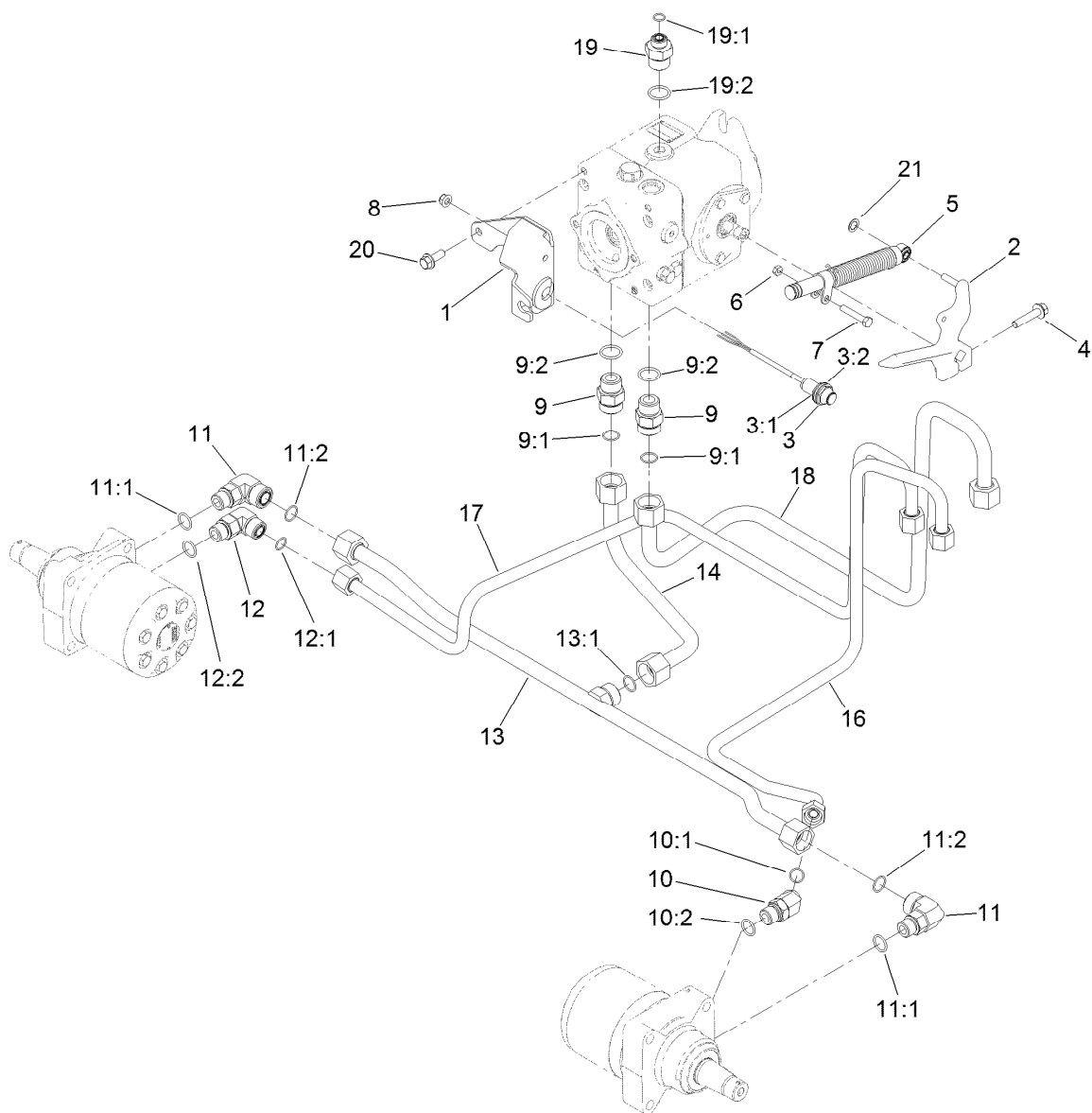
Ref.	Part Number	Qty.	Description
1	139-6299	1	Kit-Seal
1:9		1	Seal ●
1:10		1	Seal-Standard ●
1:11		1	Seal-Square ●
1:12		1	Seal-Shaft ●
1:14		1	Anti Extrusion ●

● Not serviced separately



Steering Valve Assembly No. 114-8119

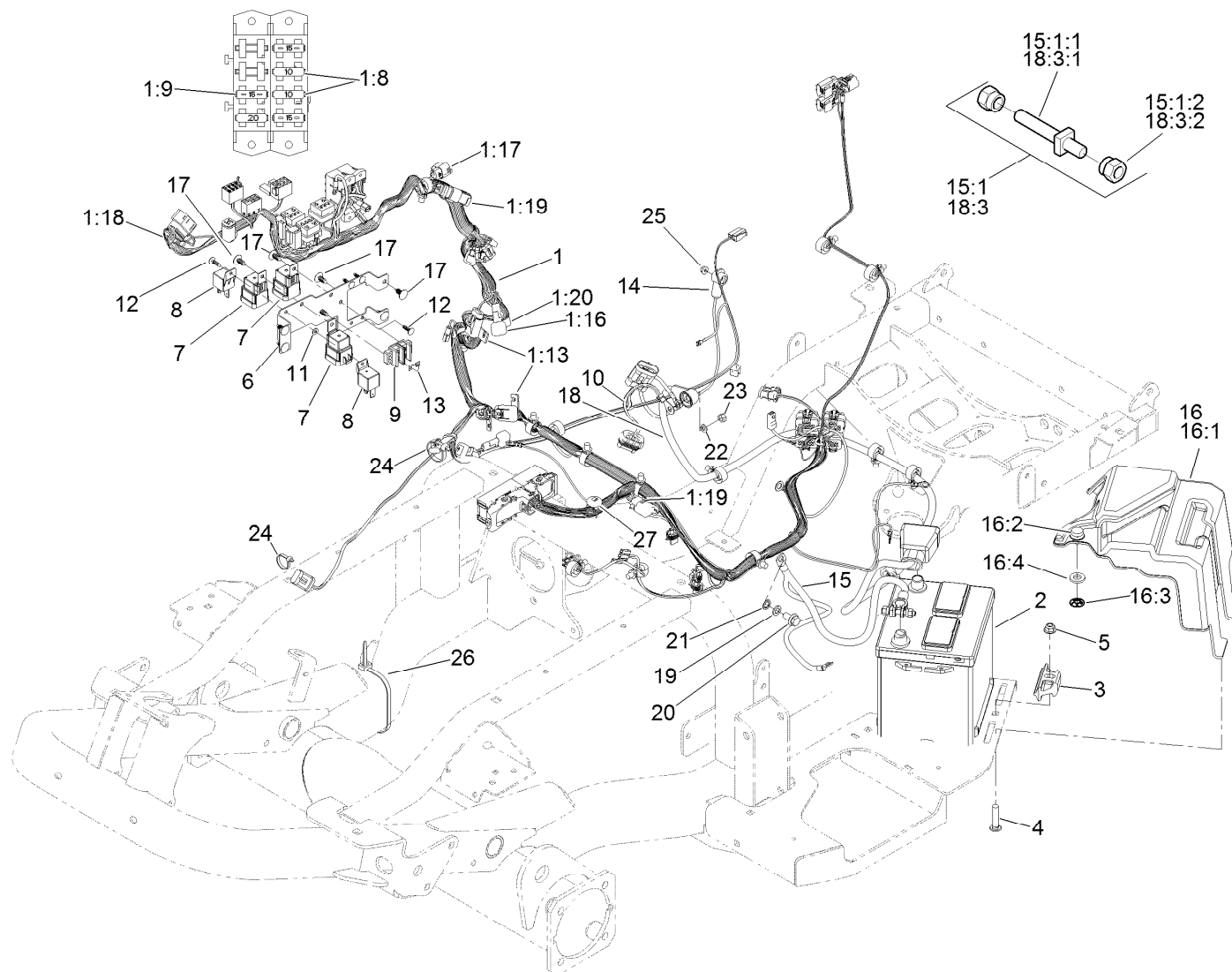
Ref.	Part Number	Qty.	Description
1	106-6716	1	Seal Kit



Traction Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	139-6195-03	1	Bracket-Support, Cable
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	138-4467	1	Damper
6	3218-2	1	Nut-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

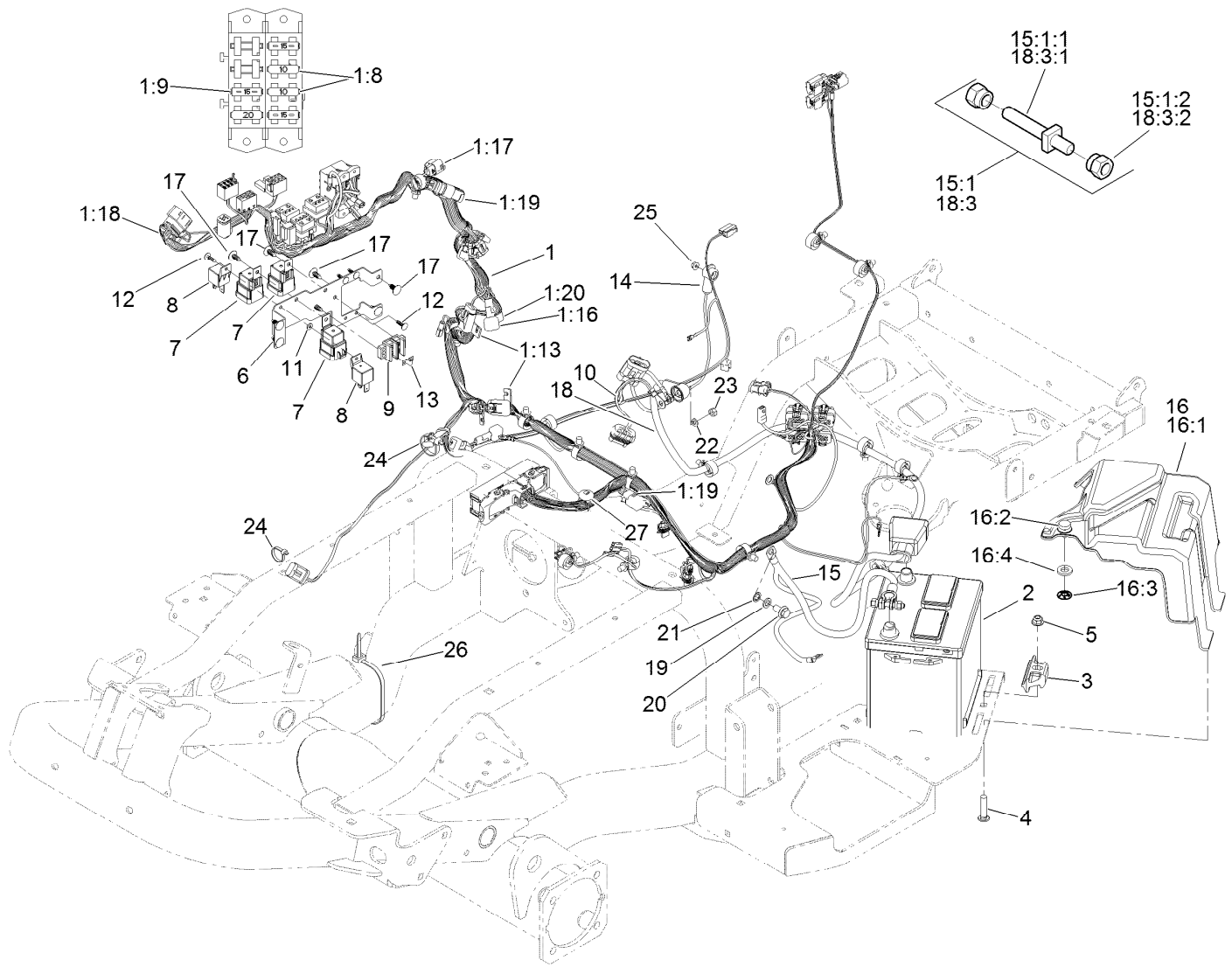
Ref.	Part Number	Qty.	Description
11:1	237-80	1	O-Ring
11:2	237-58	1	O-Ring
12	340-17	1	Fitting-Elbow, 90 DEG
12:1	237-65	1	O-Ring
12:2	237-80	1	O-Ring
13	138-0340	1	Hydraulic Tube ASM
13:1	237-58	1	O-Ring
14	138-0341	1	Hydraulic Tube ASM
16	138-0345	1	Hydraulic Tube ASM
17	138-0346	1	Hydraulic Tube 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	122-1656	1	Harness-Wire, Main
1:8	218-578	4	Fuse-Blade, 10 Amp
1:9	109355	3	Fuse-Blade, 15 Amp
1:13	32180-019	2	Cover-Fuse, Single
1:16	108-9493	1	Diode-Tvs
1:17	32180-089	1	Cap-Plug, 3 Way
1:18	32180-043	1	Resistor-120 Ohm
1:19	32180-156	2	Cap-Plug, 6 Way
1:20	104-4022	1	Resistor-75 Ohm
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	138-7467-03	1	Bracket-Electrical
7	99-7430	3	Relay-Mini
8	99-7435	2	Relay
9	42862	1	Block-Terminal, Ground
10	99-3441	1	Harness-Wire, Fusible Link
11	3256-21	1	Washer-Flat
12	125-8067	1	Plug-Plastic

Ref.	Part Number	Qty.	Description
13	42863	1	Strip-Jumper
14	100-5552	1	Harness-Wire
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	140-9010	1	Battery Cover ASM
16:1	140-9009	1	Cover-Battery
16:2	140-9033	1	Knob-Stud
16:3	32115-15	1	Nut-Push
16:4	3256-22	1	Washer-Flat
17	117-2382	10	Plug-Plastic
18	122-1275	1	Positive Battery Cable ASM
18:3	112-9921	1	Bolt ASM
18:3:1	32180-107	1	Bolt-Clamp, Battery
18:3:2	32180-108	2	Nut-Clamp, Battery
19	48-9590	1	Washer-Lock
20	33105-020	1	Screw-HHF
21	3254-6	1	Washer-Lock, Internal
22	3253-4	1	Washer-Lock

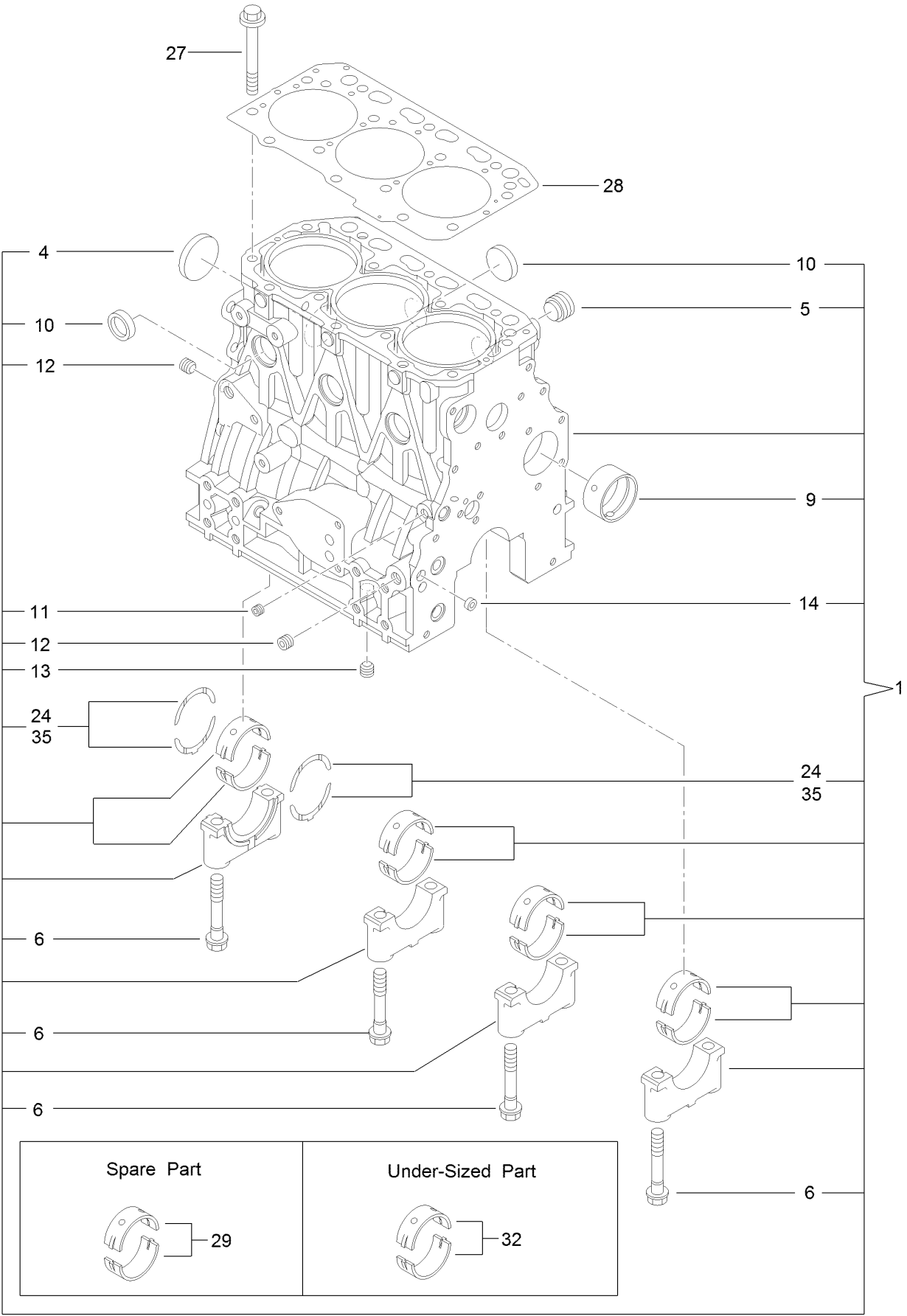


Electrical Assembly (continued)

Ref.	Part Number	Qty.	Description
23	33014-00	1	Nut-Hex
24	3290-378	2	Tie-Cable
25	33003-00	1	Nut-HF

Ref.	Part Number	Qty.	Description
26	3290-379	1	Tie-Cable
27	32180-149	1	Tie-Button Head

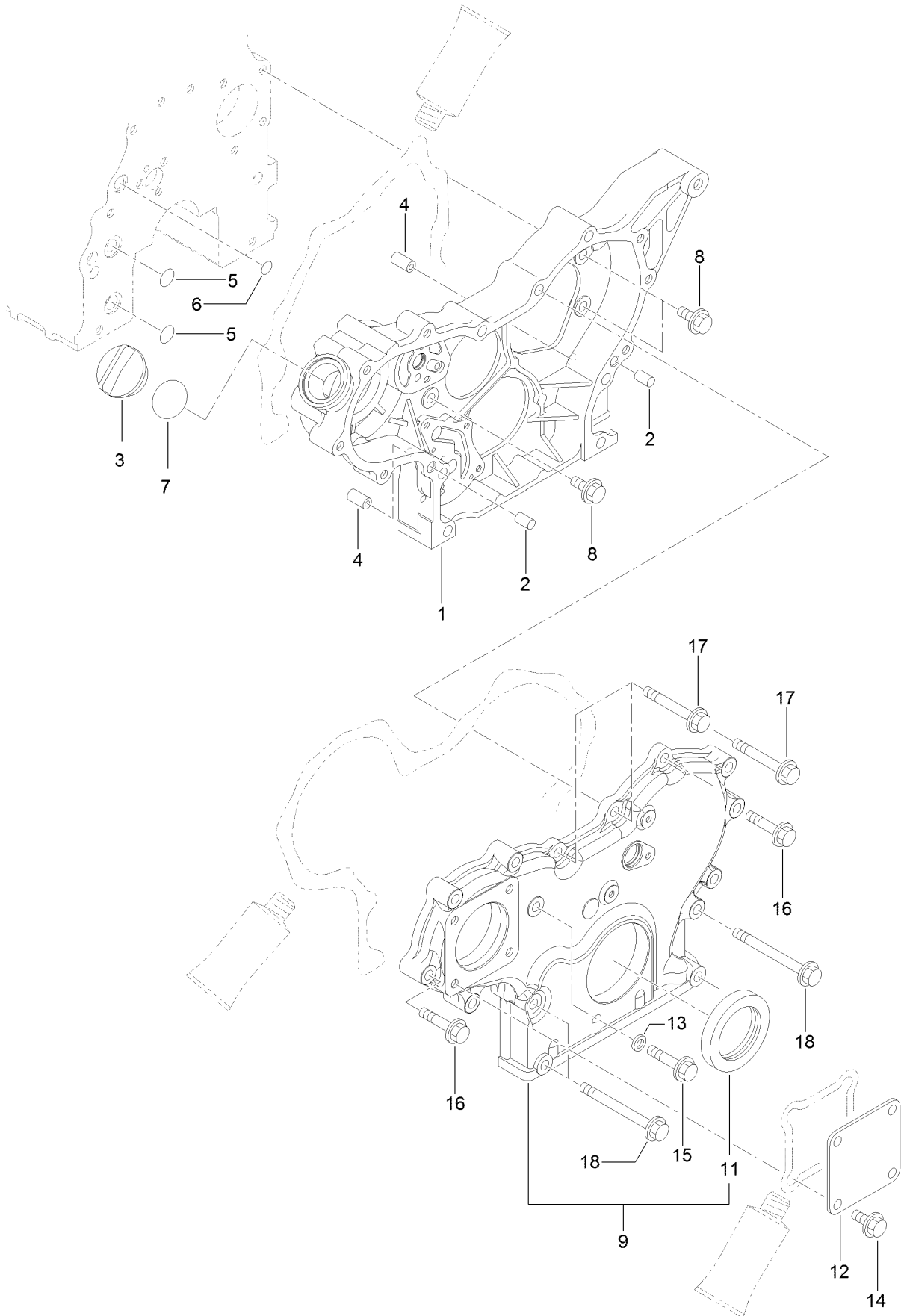
Cylinder Block Assembly



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	127-4717	1	Cylinder Block ASM	13	125-6973	1	Plug
4	125-6980	1	Plug	14	125-7237	1	Plug
5	125-7170	1	Plug	24	125-7010	2	Metal-Thrust
6	125-7007	8	Bolt	27	125-7006	14	Bolt
9	125-7108	1	Bushing	28	127-4716	1	Head Gasket ASM
10	140-7182	6	Plug 30	29	125-6981	4	Metal-Main
11	125-6969	1	Plug	32	125-7009	4	Metal-Main (0.25)
12	125-6973	2	Plug	35	125-7011	1	Metal-Thrust (0.25)

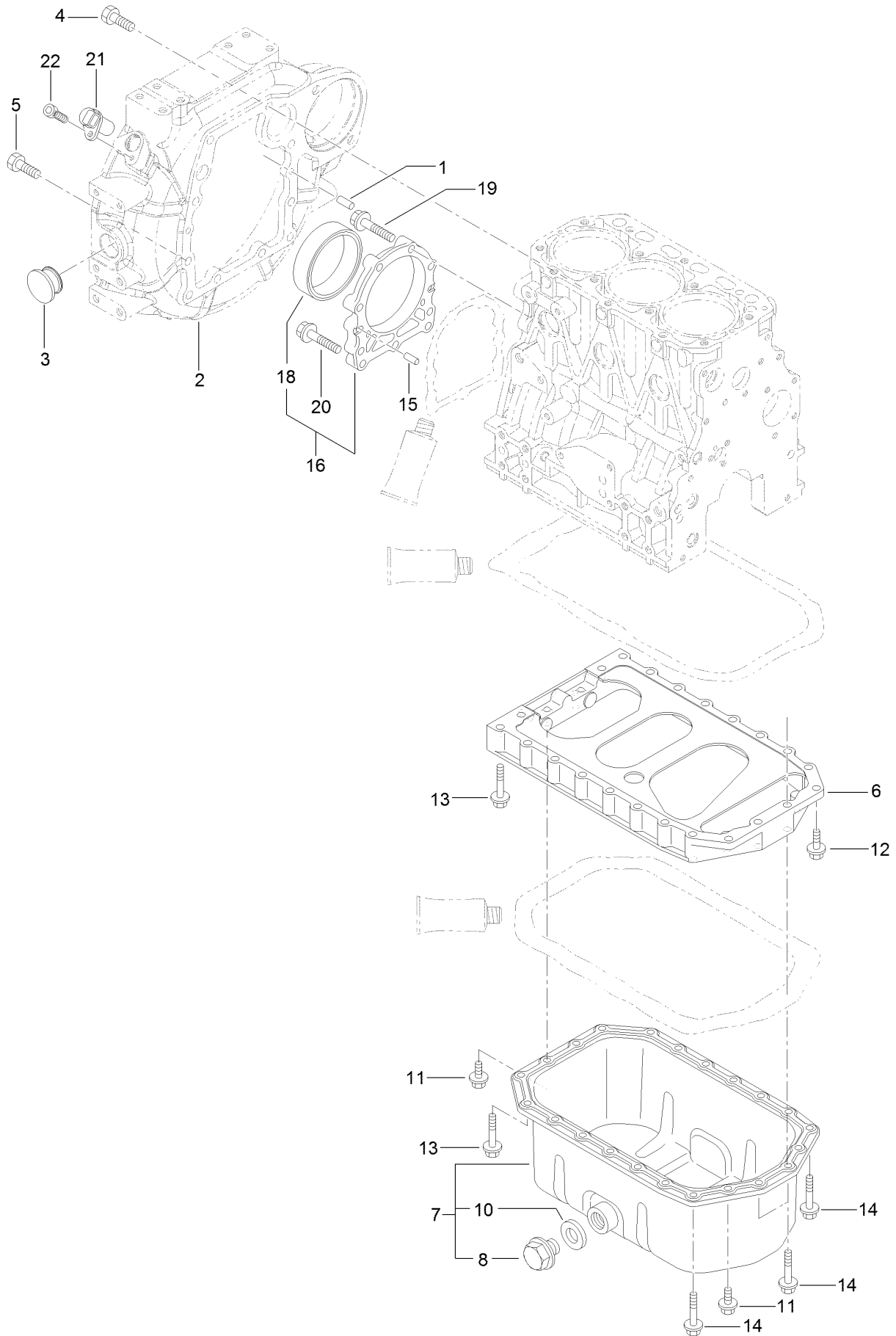
Gear Housing Assembly



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	127-3023	1	Case-Gear	11	125-6944	1	Seal-Oil
2	125-6995	2	Pin	12	125-6977	1	Cover
3	125-6972	1	Cover-Filler	13	125-7174	1	Washer-Seal
4	125-7107	2	Pipe	14	125-7214	4	Bolt
5	125-6909	2	O-Ring	15	125-7217	1	Bolt
6	127-2973	1	O-Ring	16	125-7218	7	Bolt
7	125-7197	1	O-Ring	17	125-7222	3	Bolt
8	125-7214	3	Bolt	18	125-7224	4	Bolt
9	127-3024	1	Gearcase Cover ASM				

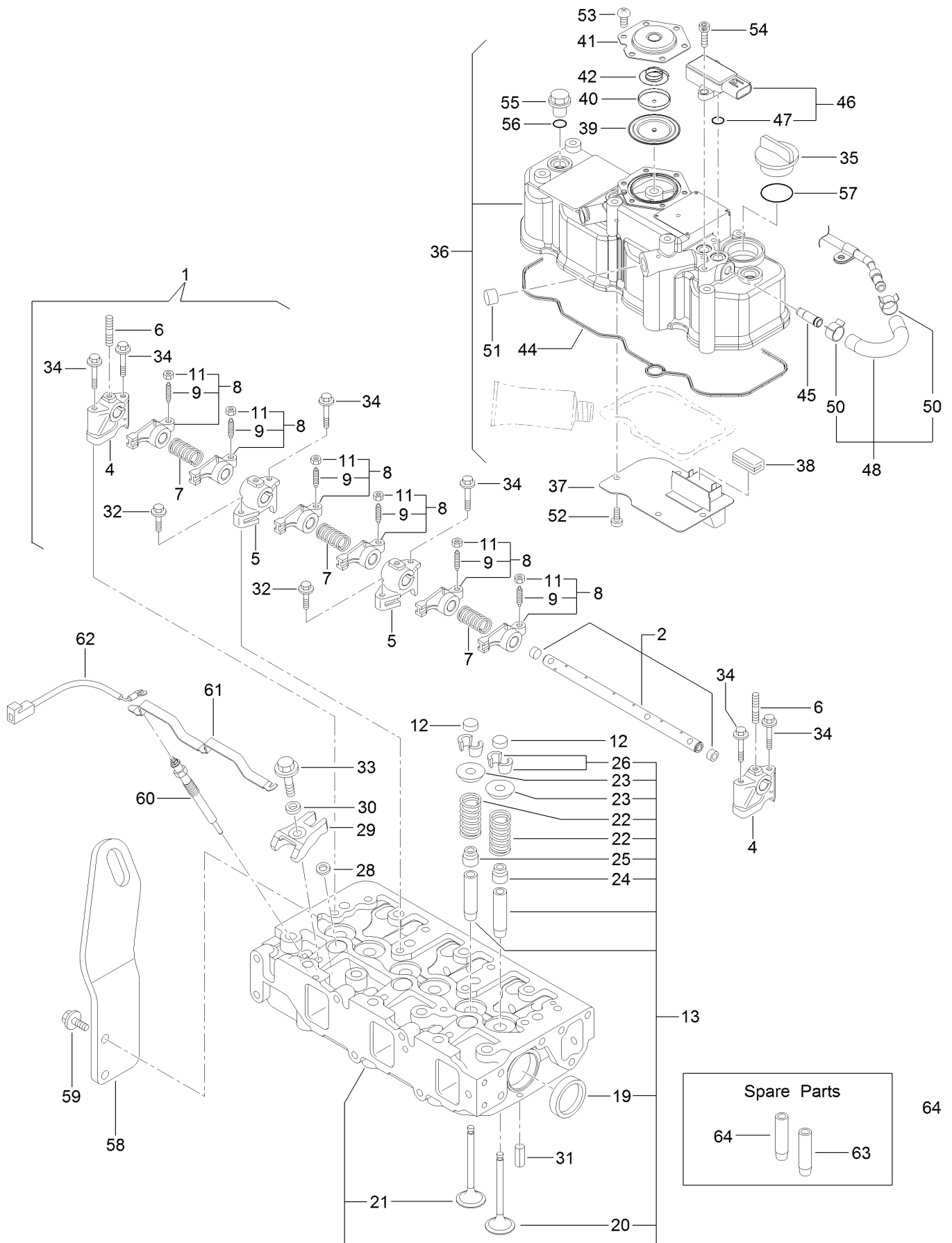
Flywheel Housing and Oil Sump Assembly



Flywheel Housing 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	12	125-7215	2	Bolt
2	127-3025	1	Housing-Flywheel	13	125-7219	16	Bolt
3	125-6910	1	Cap	14	125-7220	4	Bolt
4	125-7226	6	Bolt	15	125-6995	2	Pin
5	125-7227	4	Bolt	16	140-7173	1	Oil Seal Case ASM
6	127-3756	1	Spacer	18	140-7174	1	Seal-Oil
7	135-4010	1	Oil Pan ASM	19	125-7045	6	Bolt
8	125-6912	1	Plug-Drain	20	125-7217	3	Bolt
10	125-7177	1	Washer-Seal	21	127-3062	1	Sensor-Rev, Flywheel
11	125-7214	4	Bolt	22	127-3184	1	Bolt

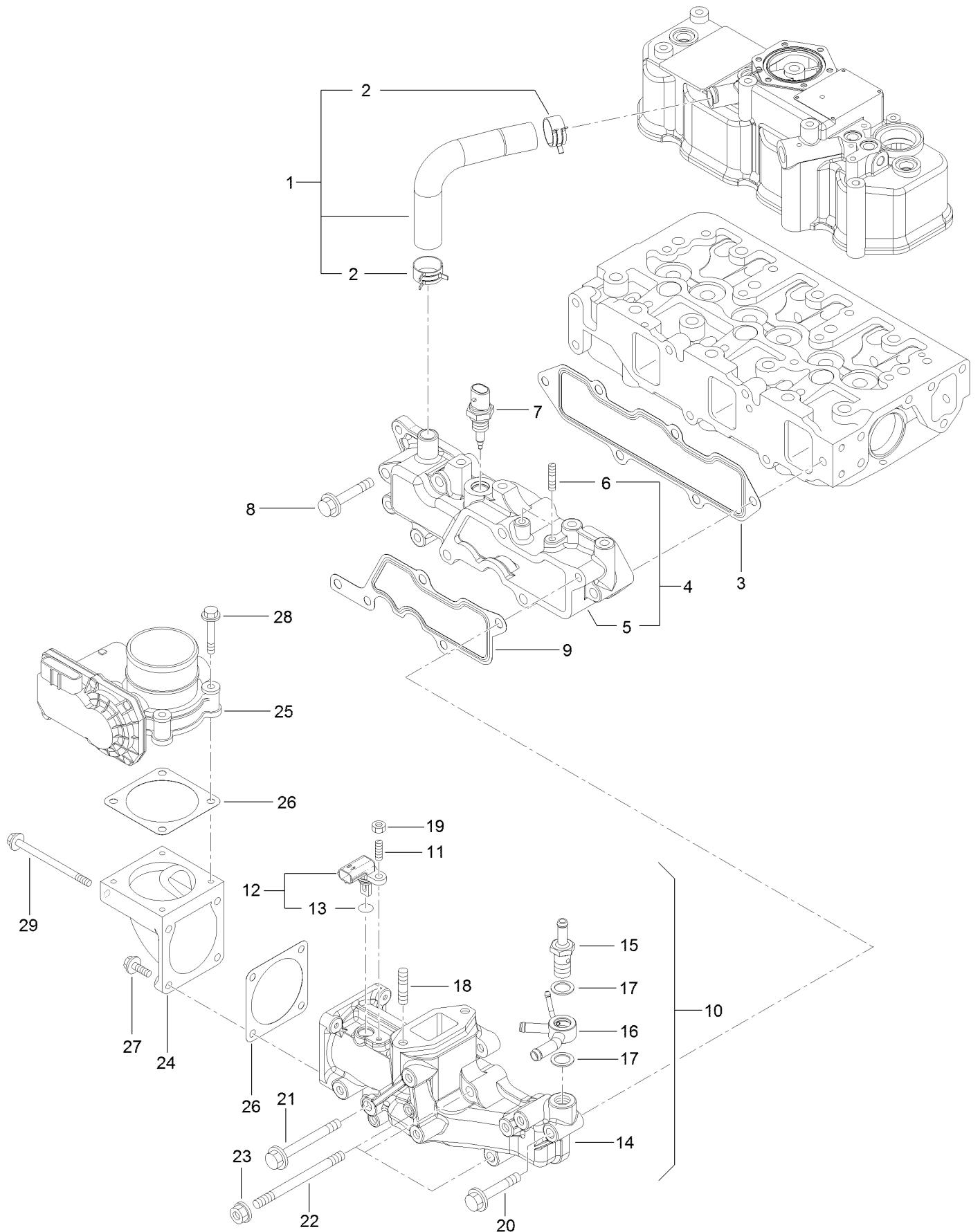
Cylinder Head and Cover Assembly



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	127-3757	1	Shaft ASM	37	127-2988	1	Plate
2	127-3758	1	Shaft	38	125-7012	1	Baffle
4	127-2974	2	Support	39	125-6959	1	Diaphragm
5	127-2975	2	Support	40	125-6960	1	Plate
6	135-4012	3	Bolt,Stud	41	125-6961	1	Plate-Breather
7	127-2995	3	Spring	42	125-6962	1	Spring-Diaphragm
8	127-2989	6	Arm-Rocker	44	127-3762	1	Gasket-Cover, Cylinder Head
9	125-7013	6	Screw-Adjust, Valve	45	127-3026	1	Joint
11	125-7014	6	Nut	46	127-3029	1	Sensor-Pressure
12	127-2996	6	Cap-Valve	47	127-3032	2	O Ring-Sensor, Pressure
13	139-6014	1	Cylinder Head ASM	48	127-3040	1	Hose ASM
19	125-7240	2	Plug	50	127-3041	2	Clip-Hose
20	127-2990	3	Valve	51	125-6913	1	Plug
21	127-4710	3	Valve	52	125-7186	4	Screw
22	127-3012	6	Spring	53	125-7186	6	Screw
23	127-3013	6	Retainer-Spring	54	127-3184	2	Bolt
24	127-2986	3	Seal-Stem, Valve	55	125-6974	3	Knob
25	127-3027	3	Seal-Stem, Valve	56	138-7829	3	O-Ring
26	127-3186	6	Pin-Cotter	57	125-7197	1	O-Ring
28	127-3021	3	Gasket-Injector	58	127-4718	1	Lifter-Engine
29	127-3028	3	Retainer-Injector	59	125-7595	2	Bolt
30	127-2980	3	Washer-Injector	60	127-2991	3	Plug-Glow
31	125-7184	2	Pin-Spring	61	127-3768	1	Connector-Plug, Glow
32	125-7215	2	Bolt	62	131-2704	1	Harness-Wire
33	125-7217	3	Bolt	63	127-2979	3	Guide
34	125-7220	6	Bolt	64	127-2997	3	Guide-Valve
35	125-6972	1	Cover-Filler				
36	127-4719	1	Cylinder Head Cover ASM				

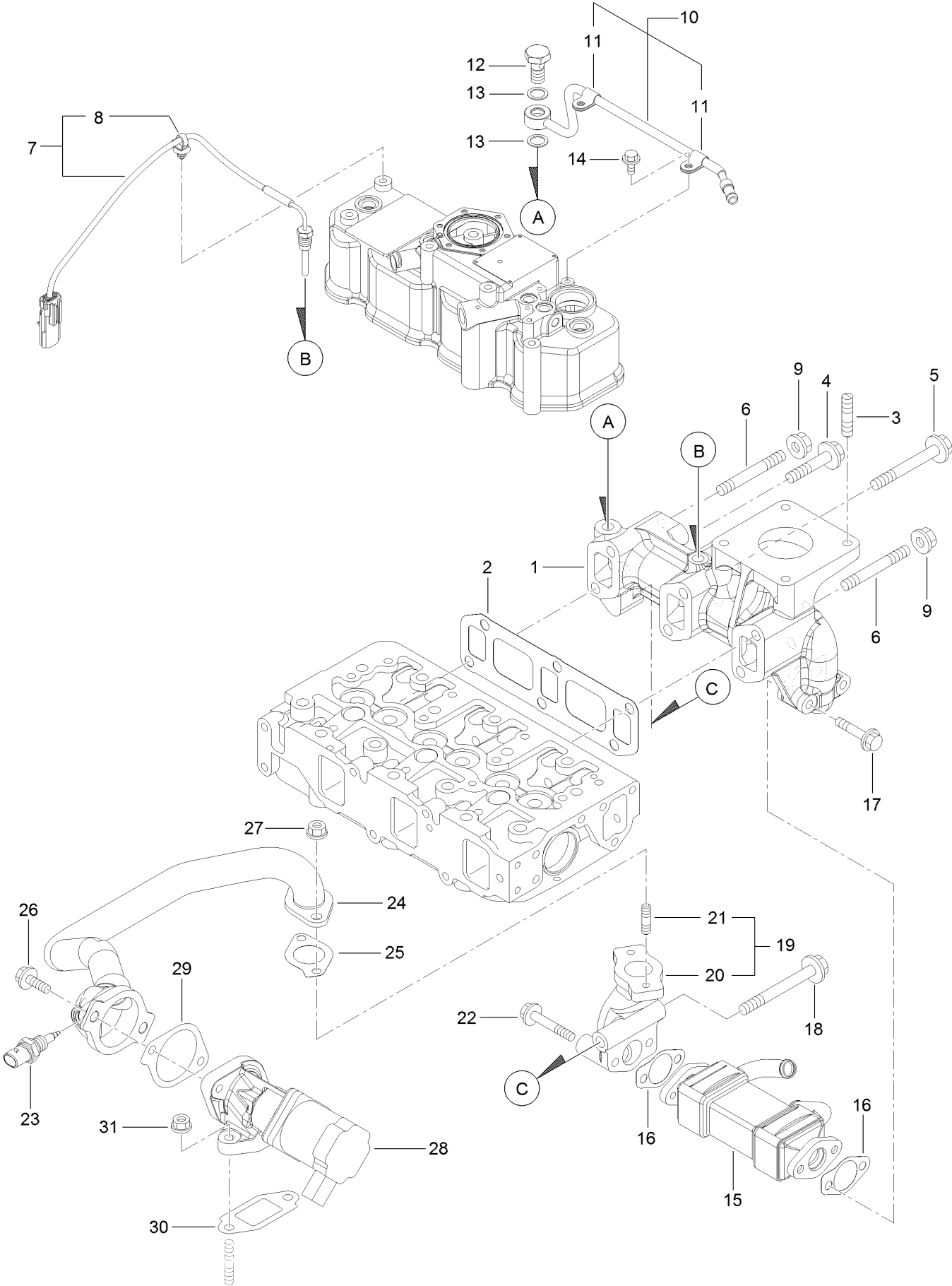
Suction Manifold Assembly



Suction 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	127-4704	1	Pipe	16	127-3081	1	Joint-Hose
2	125-7040	2	Clip-Hose	17	127-3166	2	Washer-Seal
3	127-3769	1	Gasket-Manifold, Intake	18	127-3181	2	Stud
4	127-4722	1	Intake Manifold ASM	19	127-4775	1	Nut
5	127-4721	1	Manifold-Intake	20	125-7220	1	Bolt
6	127-3180	2	Stud	21	127-3178	1	Bolt
7	137-5167	1	Sensor-Temperature, Air	22	127-3182	3	Stud
8	125-7220	3	Bolt	23	125-7229	3	Nut
9	127-3034	1	Gasket-Collector	24	127-3035	1	Bend-Inlet
10	127-4725	1	Intake Collector ASM	25	127-3036	1	Body-Throttle
11	127-4701	1	Stud	26	127-3037	2	Gasket-Throttle
12	127-3030	1	Sensor-Temp, Air	27	125-7209	2	Bolt
13	127-3033	1	O-Ring	28	125-7211	4	Bolt
14	127-4724	1	Collector-Intake	29	127-3177	2	Bolt
15	127-3080	1	Joint-Hose				

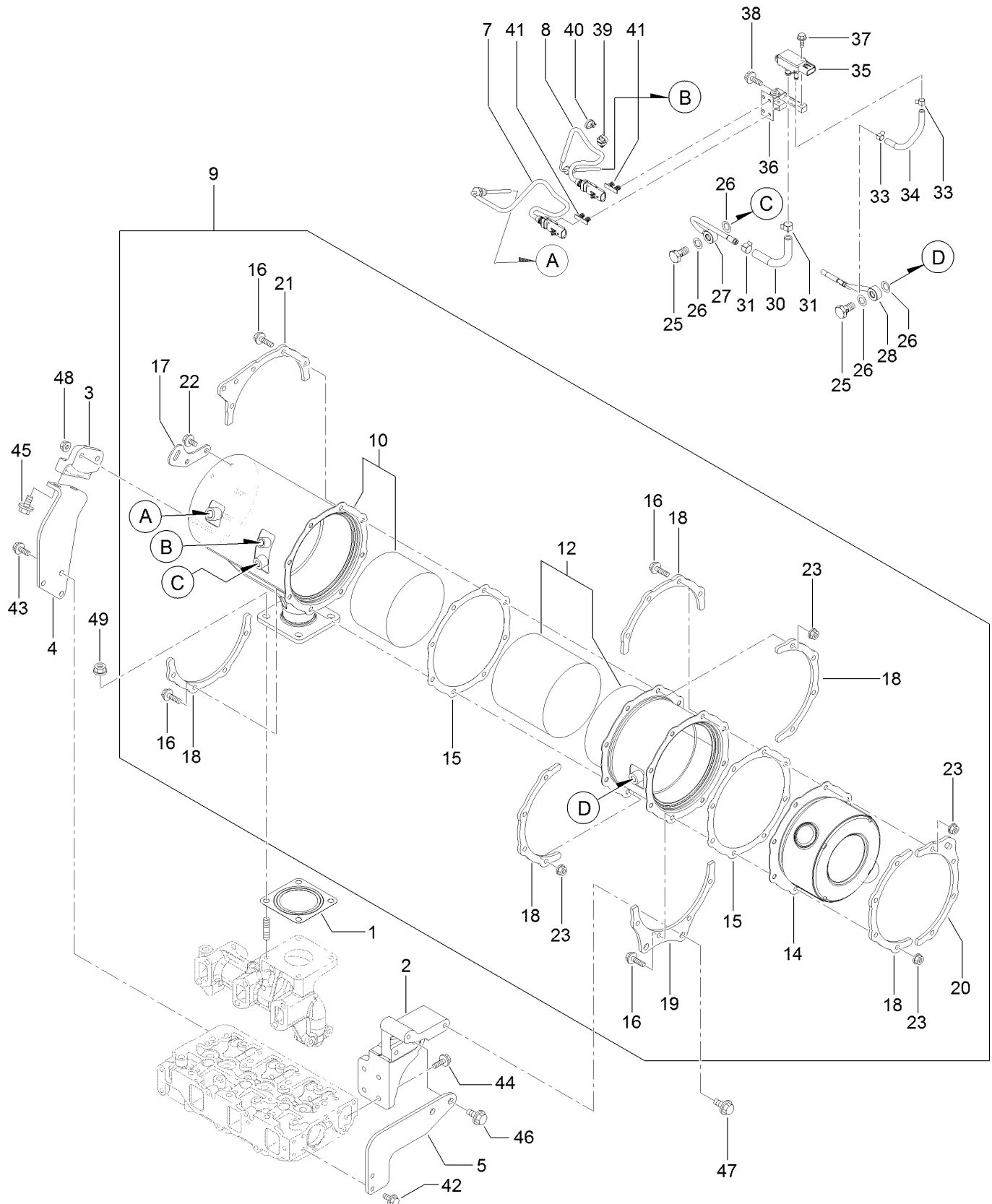
Exhaust Manifold Assembly



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	127-4726	1	Manifold-Exhaust	17	133-6715	2	Bolt
2	127-3775	1	Gasket-Manifold, Exhaust	18	127-3022	1	Bolt-Flange
3	127-2984	4	Stud	19	127-3048	1	E G R Pipe ASM
4	135-4013	1	Bolt	20	127-3049	1	Pipe-Out, E G R
5	135-4014	3	Bolt	21	125-7043	2	Stud
6	127-4756	2	Stud	22	125-7220	2	Bolt
7	127-4729	1	Sensor-Temp, Exhaust	23	137-5168	1	Sensor-Gas Temp, E G R
8	127-3087	1	Band-Clip	24	127-3780	1	E G R Pipe ASM
9	125-7230	2	Nut	25	127-3016	1	Gasket
10	127-3038	1	Exhaust Pipe ASM	26	125-7215	2	Bolt
11	127-3173	2	Clamp	27	125-7229	2	Nut
12	127-3039	1	Bolt-Joint, Pipe	28	127-3781	1	Valve-E G R
13	127-3174	2	Gasket	29	127-3050	1	Gasket-Intake Valve, E G R
14	125-7206	2	Bolt	30	127-3051	1	Gasket-Out Valve, E G R
15	127-3042	1	Cooler-E G R	31	125-7229	2	Nut
16	127-3043	2	Gasket-Cooler, E G R				

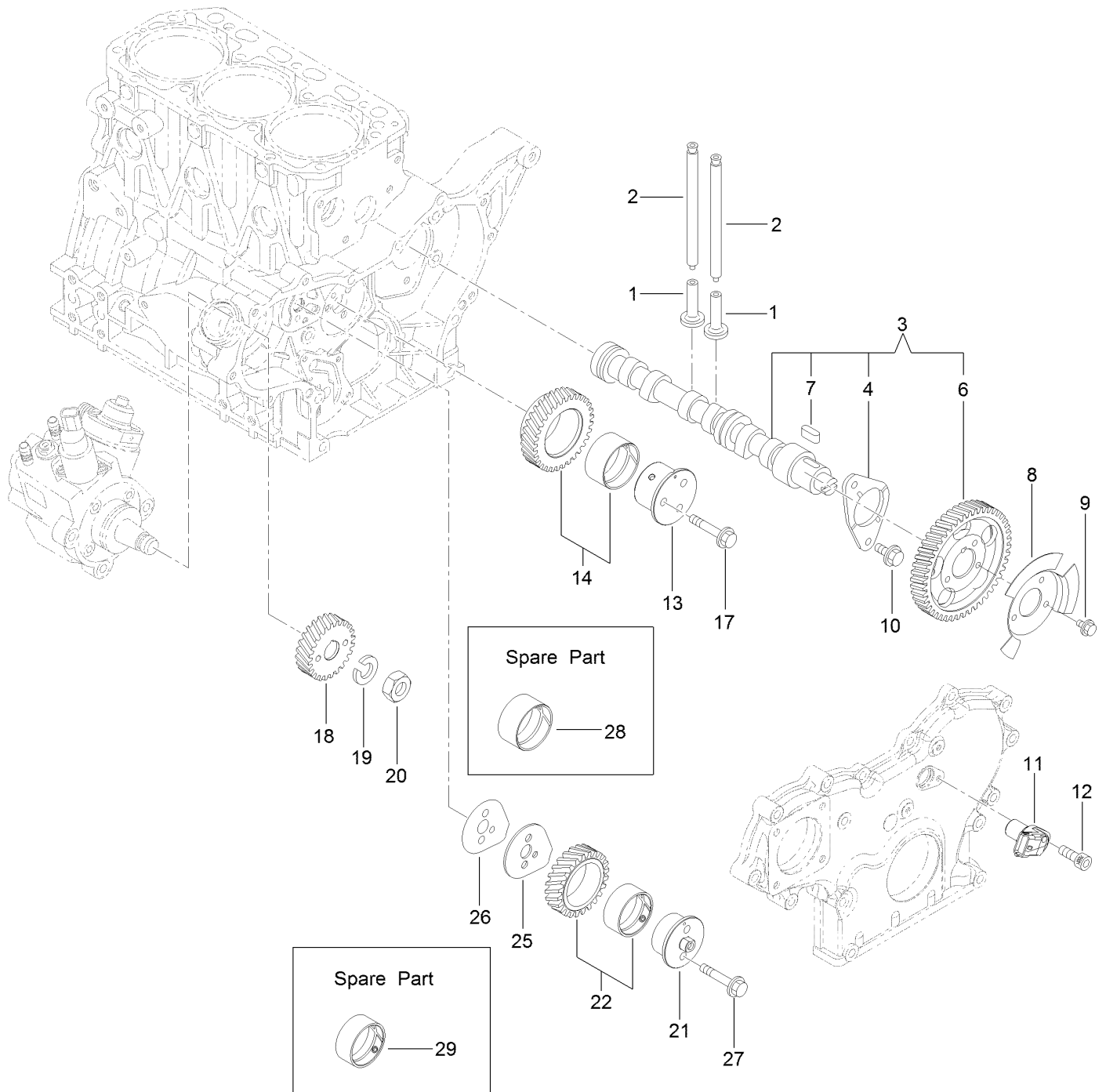
Diesel Particulate Filter Assembly



Diesel Particulate Filter Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-2987	1	Gasket-Silencer	27	127-4744	1	Sensor Pipe ASM
2	127-4738	1	Stay-D P F	28	127-4745	1	Sensor Pipe ASM
3	127-4739	1	Stay-D P F	30	140-7175	1	Hose-Pressure
4	127-4740	1	Stay-D P F	31	127-3057	2	Clip-Hose
5	127-4741	1	Stay-D P F	33	127-3058	2	Clip-Hose
7	127-4764	1	Sensor-Temp, Exhaust	34	138-8257	1	Exhaust Press Hose ASM
8	127-3112	1	Sensor-Temp, Exhaust	35	127-3060	1	Sensor-Pressure
9	127-4759	1	D P F ASM	36	127-4750	1	Bracket-Sensor
10	127-4732	1	Case-D O C	37	125-7208	2	Bolt
12	127-4734	1	Case-Filter, Soot	38	125-7595	2	Bolt
14	127-3786	1	Silencer-D P F	39	127-3087	1	Band-Clip
15	127-3787	2	Gasket-D P F	40	127-3124	1	Band
16	127-3055	16	Bolt	41	127-3088	2	Clip-Connector
17	127-3788	1	Lifter-D P F	42	125-7214	2	Bolt
18	127-3789	5	Stiffener-D P F, A	43	125-7214	3	Bolt
19	127-4735	1	Stiffener-D P F, B	44	125-7595	4	Bolt
20	127-3792	1	Stiffener-D P F, C	45	127-3179	2	Bolt
21	127-4736	1	Stiffener-D P F, C	46	127-3179	2	Bolt
22	125-7213	2	Bolt	47	127-3179	2	Bolt
23	125-7229	16	Nut	48	125-7229	2	Nut
25	127-3039	2	Bolt-Joint, Pipe	49	125-7230	4	Nut
26	127-3056	4	Gasket-Sensor				

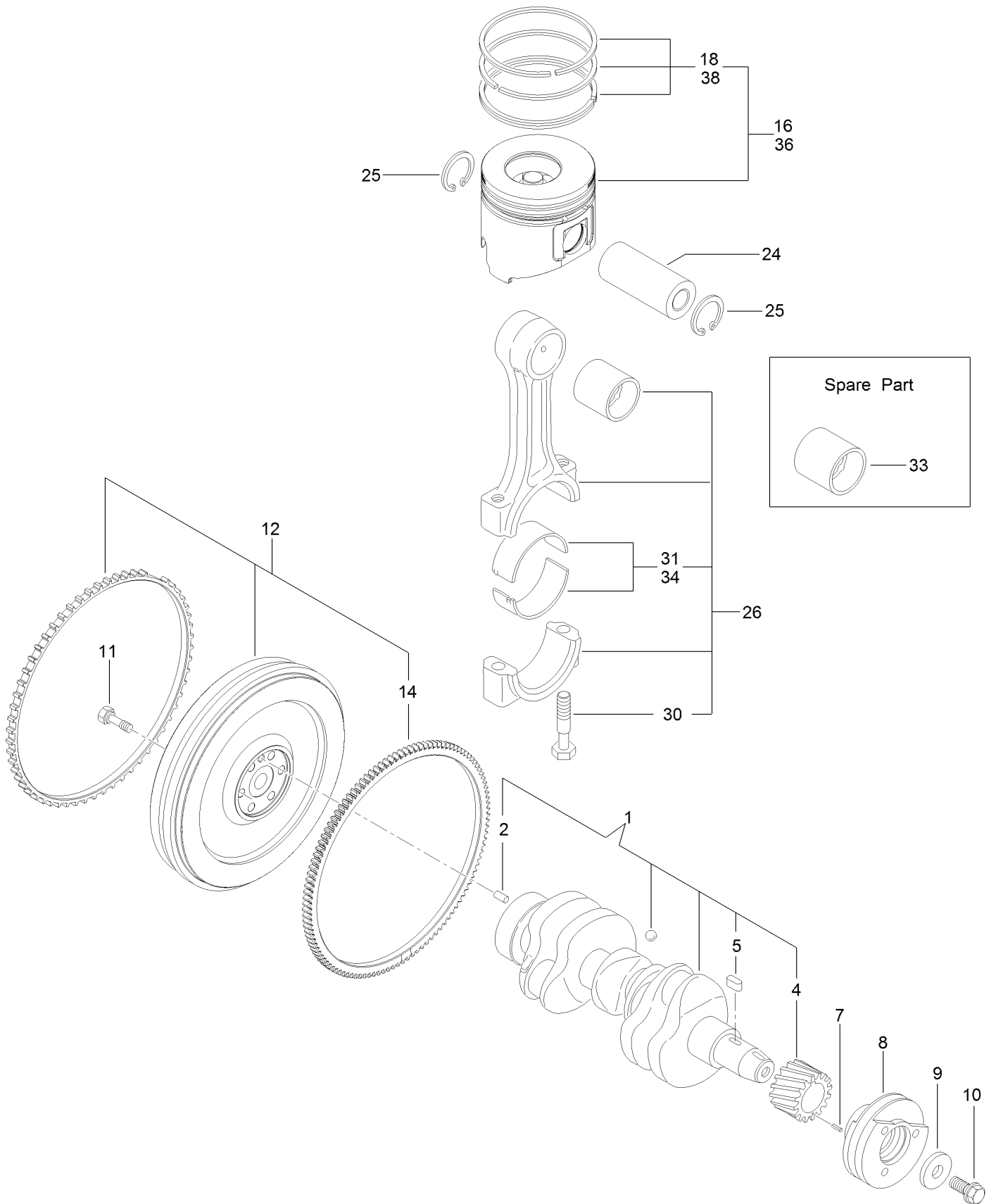
Camshaft and Driving Gear Assembly



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	125-7016	6	Tappet	14	127-3066	1	Idle Gear A ASM
2	125-7017	6	Rod-Push	17	125-7219	3	Bolt
3	127-3797	1	Camshaft ASM	18	127-3070	1	Gear-Pump, Supply
4	125-7008	1	Metal-Thrust	19	127-3167	1	Washer-Spring
6	127-3052	1	Gear-Camshaft	20	127-3185	1	Nut-Lock
7	125-7185	1	Key	21	127-3064	1	Shaft-Idle, Gear B
8	127-3053	1	Pulser-Camshaft	22	127-3067	1	Idle Gear B ASM
9	125-7205	3	Bolt	25	127-3068	1	Plate-Idle, Shaft
10	125-7213	2	Bolt	26	127-3069	1	Gasket-Idle, Shaft B
11	127-3054	1	Sensor-Rev, Gear	27	125-7218	2	Bolt
12	127-3184	1	Bolt	28	125-6926	1	Bush
13	127-3063	1	Shaft-Idle, Gear A	29	127-3065	1	Bushing

Crankshaft and Piston Assembly

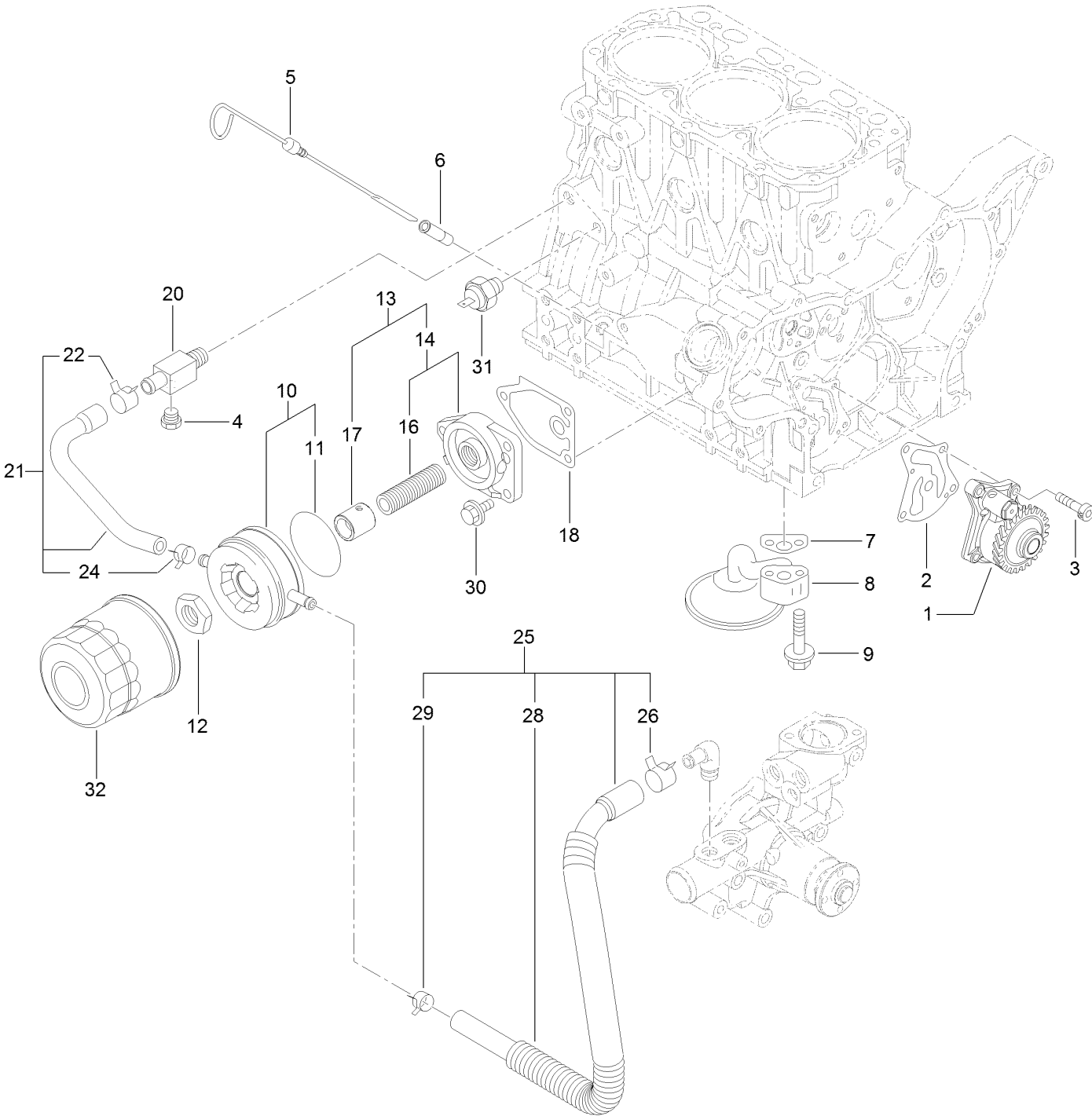


Crankshaft and Piston Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-3800	1	Crankshaft ASM
2	125-6995	1	Pin
4	125-6937	1	Gear
5	125-7185	1	Key
7	125-7182	1	Pin-Spring
8	127-3801	1	Pulley-V
9	125-7109	1	Washer
10	125-6956	1	Bolt
11	125-6951	6	Bolt
12	127-3802	1	Flywheel ASM
14	125-6943	1	Gear

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
16	127-4766	3	Piston ASM
18	127-4751	3	Piston Ring ASM
24	125-7030	3	Pin
25	125-7180	6	Ring
26	125-7242	3	Connecting Rod ASM
30	125-6955	6	Bolt
31	125-7018	3	Pin-Crank
33	125-6997	3	Pin-Piston
34	125-7019	3	Pin-Crank (.25)
36	127-4767	3	Piston ASM (0.25 O S)
38	127-4752	3	Ring Set (0.25 O S)

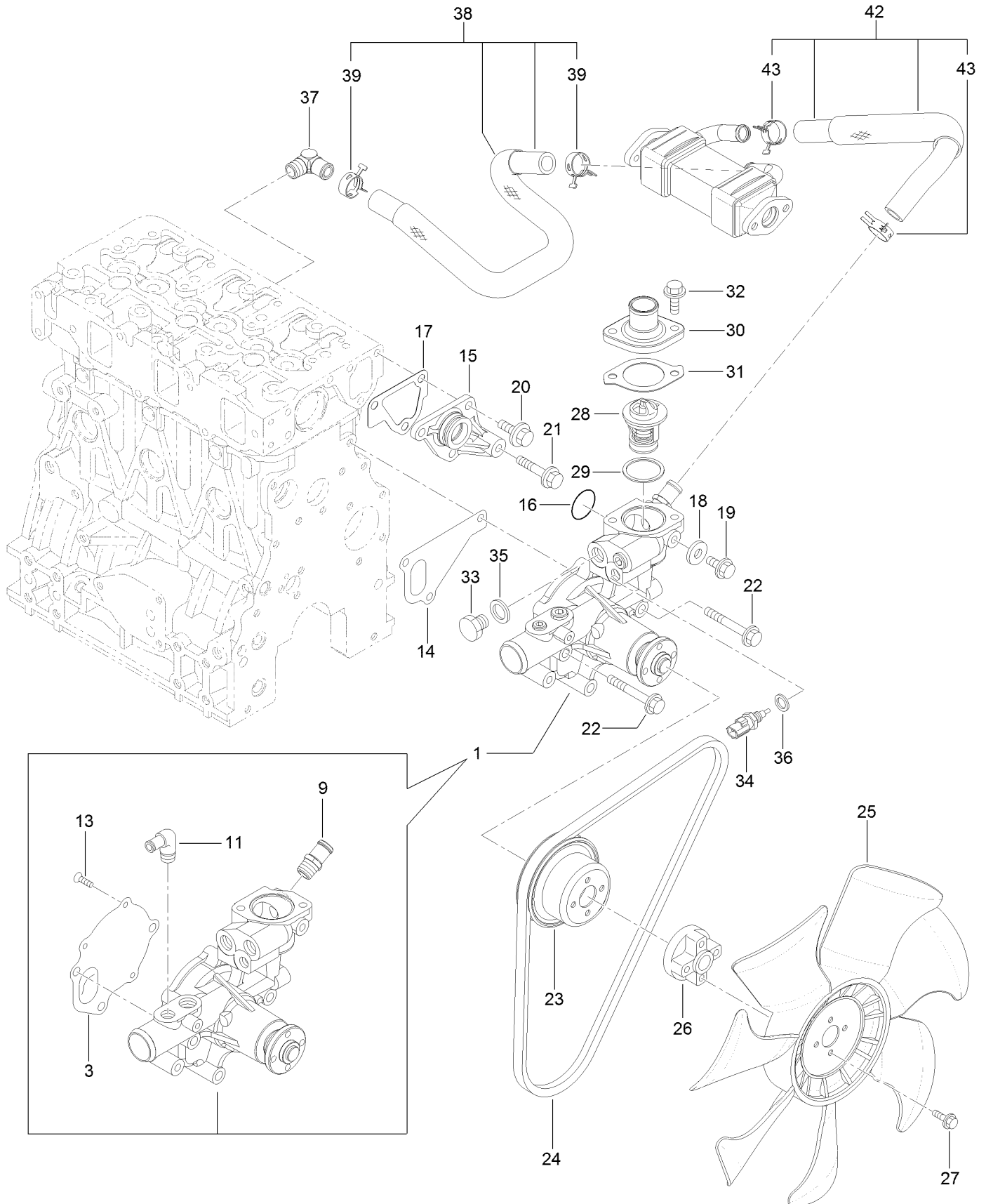
Lubrication and Oil System Assembly



Lubrication and Oil 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	127-4753	1	Oil Pump ASM	16	125-7042	1	Stud
2	127-3004	1	Gasket	17	135-4022	1	Collar-Cooler, Oil
3	125-7232	4	Bolt	18	125-7024	1	Gasket
4	125-7171	1	Plug-Drain	20	125-6990	1	Joint
5	140-7168	1	Dipstick-Oil	21	125-7078	1	Pipe ASM
6	125-6954	1	Guide-Dipstick	22	125-7162	1	Clip
7	125-7022	1	Gasket	24	125-7191	1	Clamp-Hose
8	135-4017	1	Oil Inlet Pipe ASM	25	127-3804	1	Pipe ASM
9	125-7217	2	Bolt	26	125-7162	1	Clip
10	135-4018	1	Oil Cooler ASM	28	127-3805	1	Tube
11	135-4019	1	Packing-Oil Cooler	29	125-7191	1	Clamp-Hose
12	135-4020	1	Nut	30	125-7595	3	Bolt
13	135-4021	1	Lo Filter Bracket ASM	31	125-6918	1	Switch-Oil
14	140-7169	1	Filter Bracket ASM	32	125-7025	1	Filter-Engine, Oil

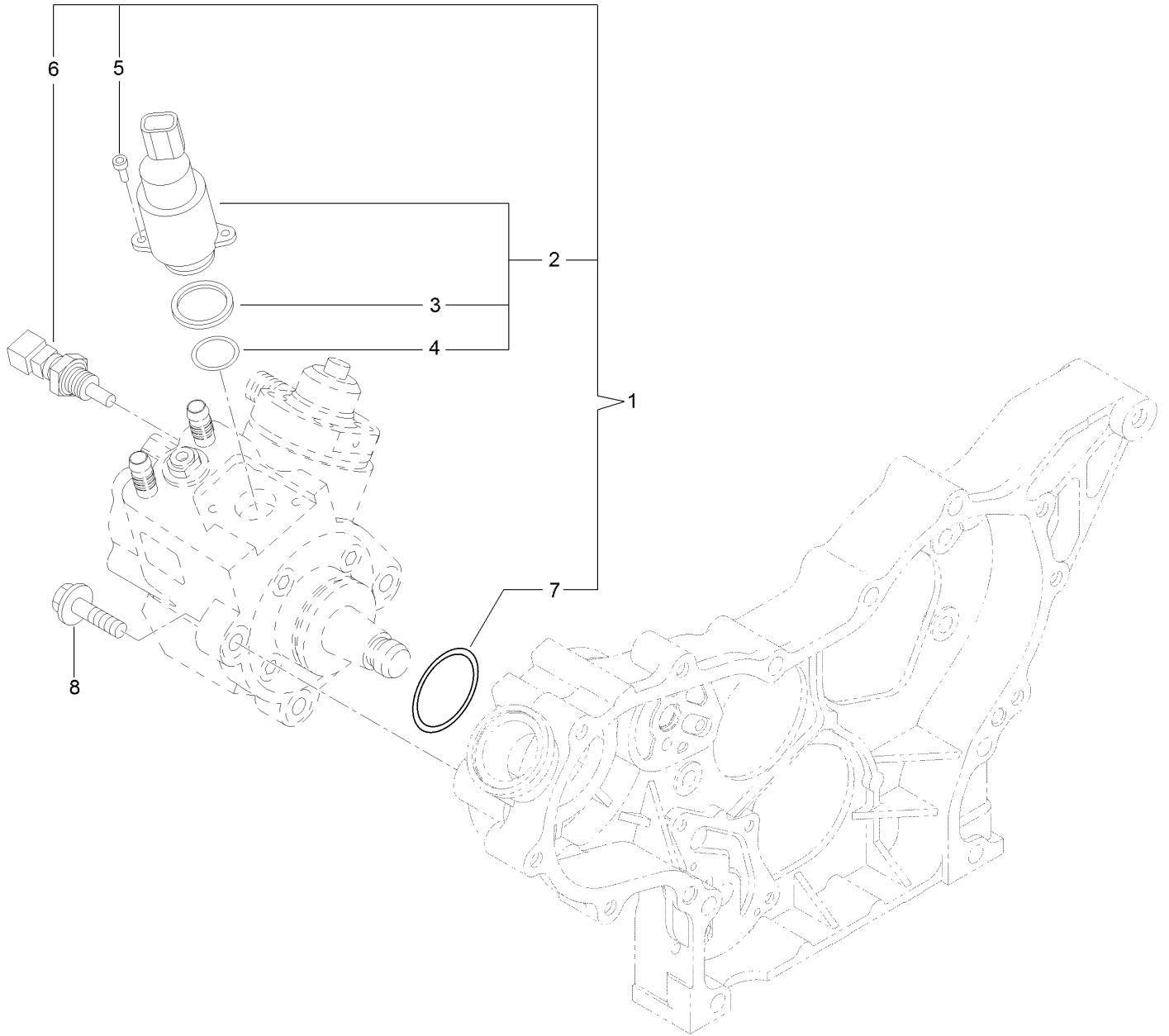
Cooling Water System Assembly



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	140-7176	1	CW Pump ASM	26	127-3810	1	Spacer
3	125-6998	1	Gasket	27	125-7209	4	Bolt
9	127-3017	1	Joint	28	125-7029	1	Thermostat
11	125-7001	1	Elbow	29	125-7026	1	Gasket
13	140-7170	3	Screw-Flat	30	140-7171	1	Cover-Thermostat
14	125-7047	1	Gasket	31	125-7110	1	Gasket
15	125-6986	1	Joint	32	125-7594	2	Bolt
16	125-7048	1	O-Ring	33	125-6953	1	Plug
17	125-6978	1	Gasket	34	125-7124	1	Sensor-Thermostat, CW
18	125-7192	1	Gasket	35	125-6979	1	Gasket
19	125-7212	1	Bolt	36	125-7176	1	Washer-Seal
20	125-7214	3	Bolt	37	127-4705	1	Elbow
21	125-7219	1	Bolt	38	127-4757	1	E G R-C Pipe ASM
22	125-7222	3	Bolt	39	127-3020	2	Clip-Hose
23	127-4712	1	V-Pulley	42	127-3811	1	CW Pipe ASM
24	127-4771	1	V-Belt	43	127-3020	2	Clip-Hose
25	127-4702	1	Fan				

Fuel Supply Pump Assembly



Fuel Supply 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	140-7178	1	Fuel Pump ASM	5	131-2107	2	Bolt
2	131-2103	1	Valve ASM	6	125-8823	1	Sensor-Temperature
3	131-2105	1	Ring-Sealing	7	127-3074	1	O-Ring
4	131-2106	1	O-Ring	8	125-7216	3	Bolt

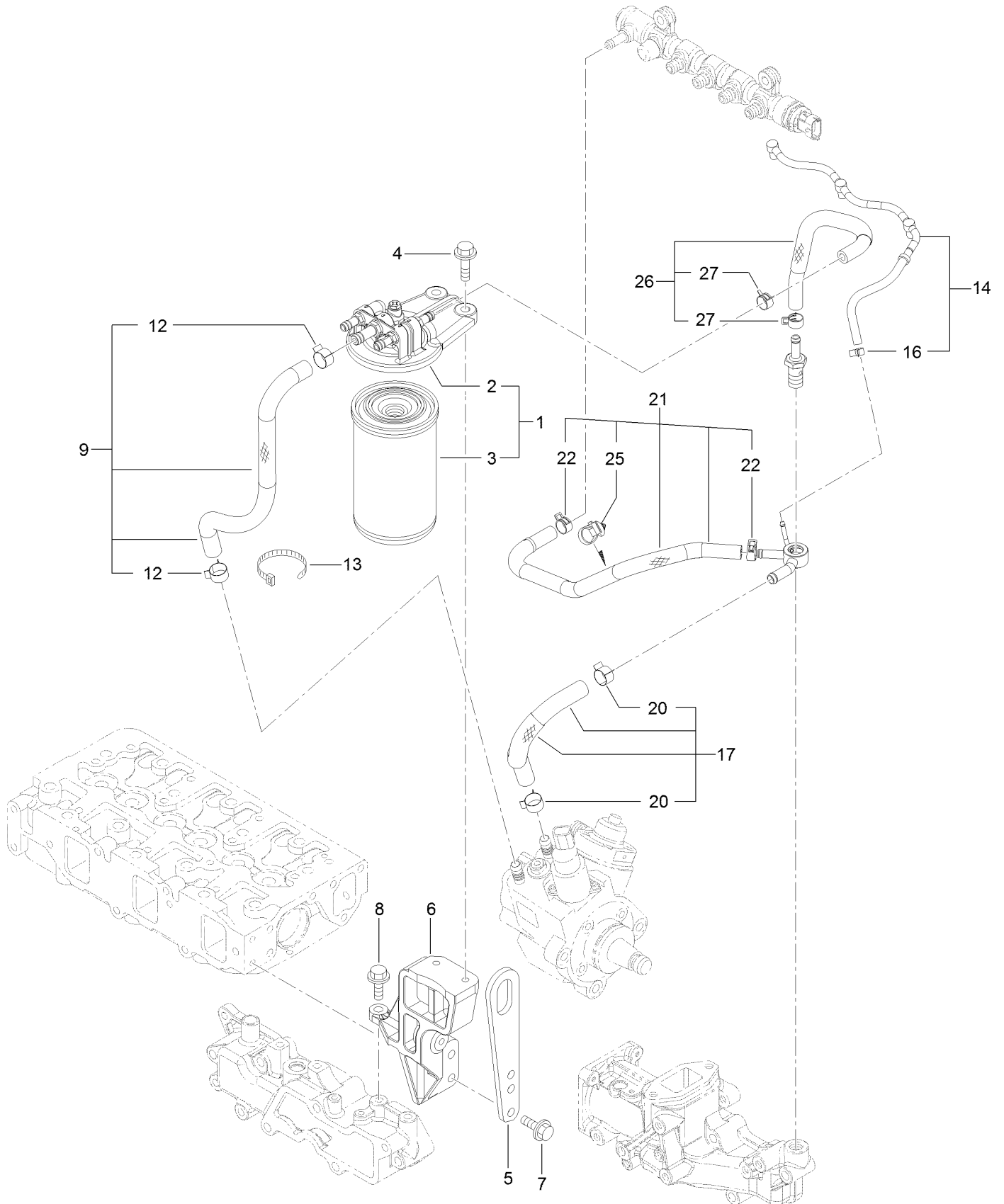
This exploded view diagram illustrates the assembly of a hydraulic pump. The main components are labeled as follows:

- 1**: The main pump housing or body.
- 2**: A small O-ring or seal.
- 3**: A small pin or clip.
- 4**: A hydraulic hose or cable.
- 5**: A small O-ring or seal.
- 6**: A small O-ring or seal.
- 7**: A small O-ring or seal.
- 8**: A small O-ring or seal.
- 9**: A small O-ring or seal.
- 10**: A small O-ring or seal.
- 11**: A small O-ring or seal.
- 12**: A small O-ring or seal.
- 13**: A small O-ring or seal.
- 14**: A small O-ring or seal.
- 15**: A small O-ring or seal.
- 16**: A small O-ring or seal.
- 17**: A small O-ring or seal.
- 18**: A small O-ring or seal.
- 19**: A small O-ring or seal.

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	127-4754	3	Injector ASM	11	125-7215	2	Bolt
4	130-7430	3	Ring-Retaining	12	127-3813	2	Retainer
6	137-5173	3	O-Ring	14	127-3082	1	Rail In Pipe ASM
7	127-3812	1	Rail ASM	16	127-3814	1	Injection Pipe ASM
8	131-2709	1	Sensor-Pressure, Rail	17	127-3083	1	Injection Pipe ASM
9	131-2710	1	Valve ASM	18	127-3084	1	Injection Pipe ASM
10	130-7433	1	O-Ring	19	125-7231	2	Nut

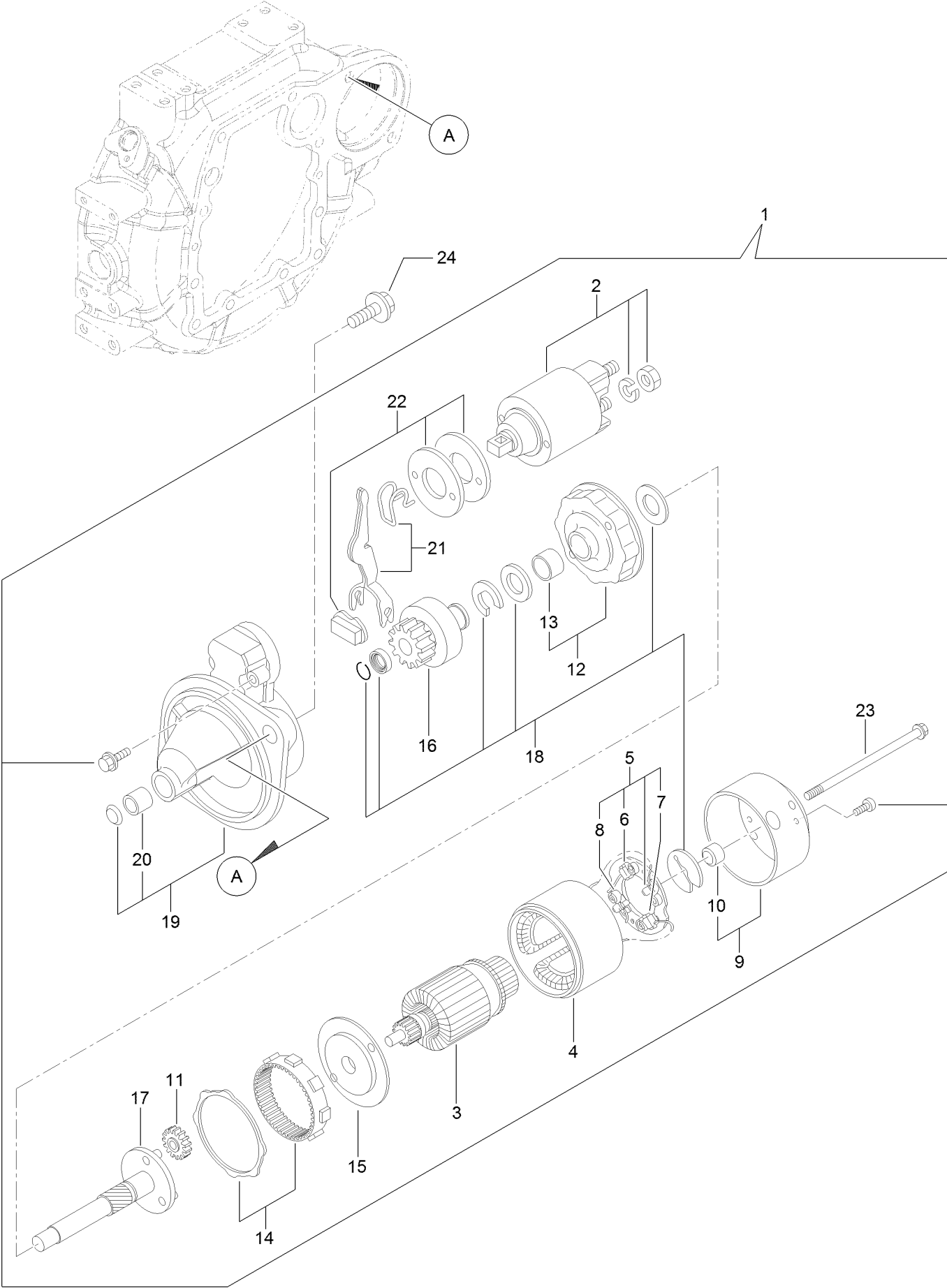
Fuel Filter Assembly



Fuel Filter 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	139-4535	1	Filter ASM	13	127-2981	1	Band
2	127-3076	1	Fuel/Oil Filter Bracket ASM	14	135-4023	1	Fuel/Oil Return Pipe ASM
3	139-4531	1	Filter-Fuel	16	127-3172	1	Clamp-Hose
4	125-7216	2	Bolt	17	127-3078	1	Fuel Pipe ASM
5	125-7111	1	Lifter	20	125-7191	2	Clamp-Hose
6	127-3815	1	Filter Bracket ASM	21	127-3817	1	Fuel Pipe ASM
7	125-7215	2	Bolt	22	127-2950	2	Clip-Hose
8	125-7215	1	Bolt	25	127-3087	1	Band-Clip
9	127-3077	1	Fuel Pipe ASM	26	127-3079	1	Fuel Pipe ASM
12	125-7191	2	Clamp-Hose	27	127-2950	2	Clip-Hose

Starting Motor Assembly

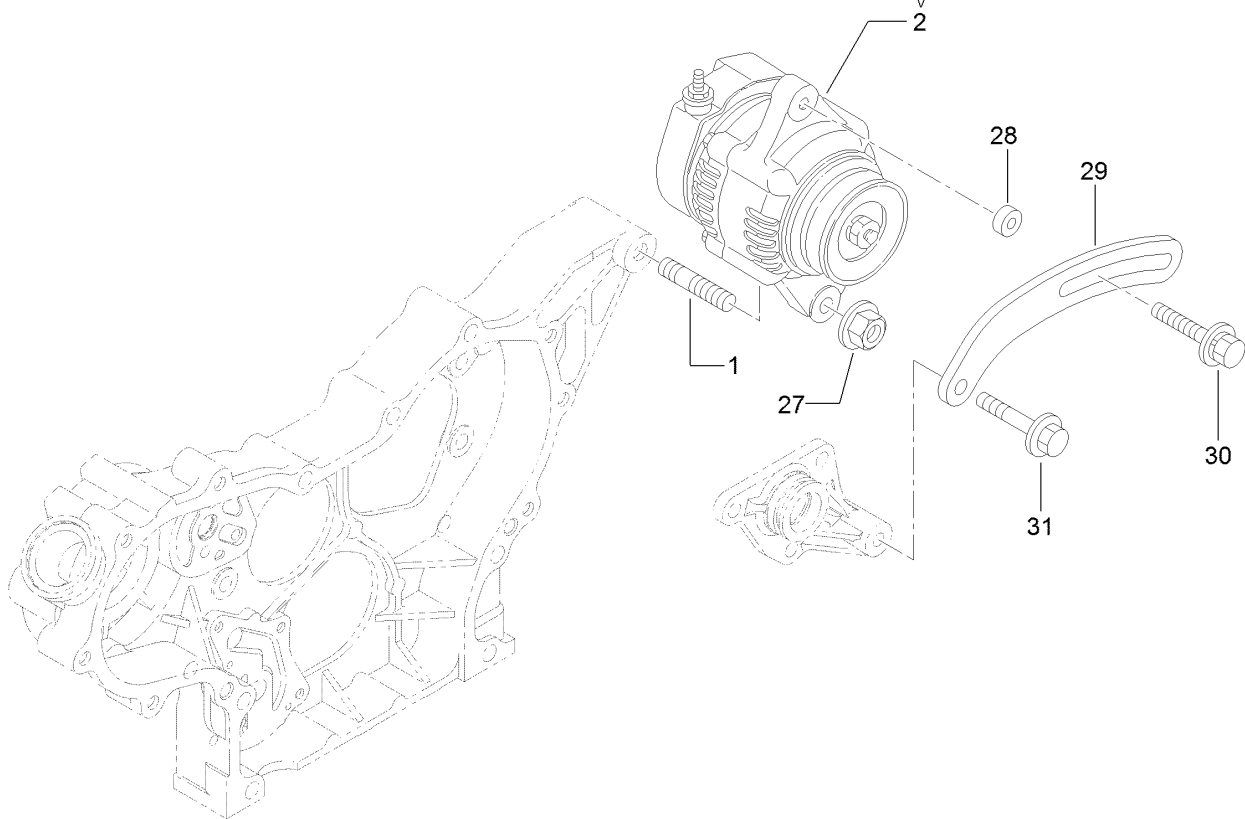
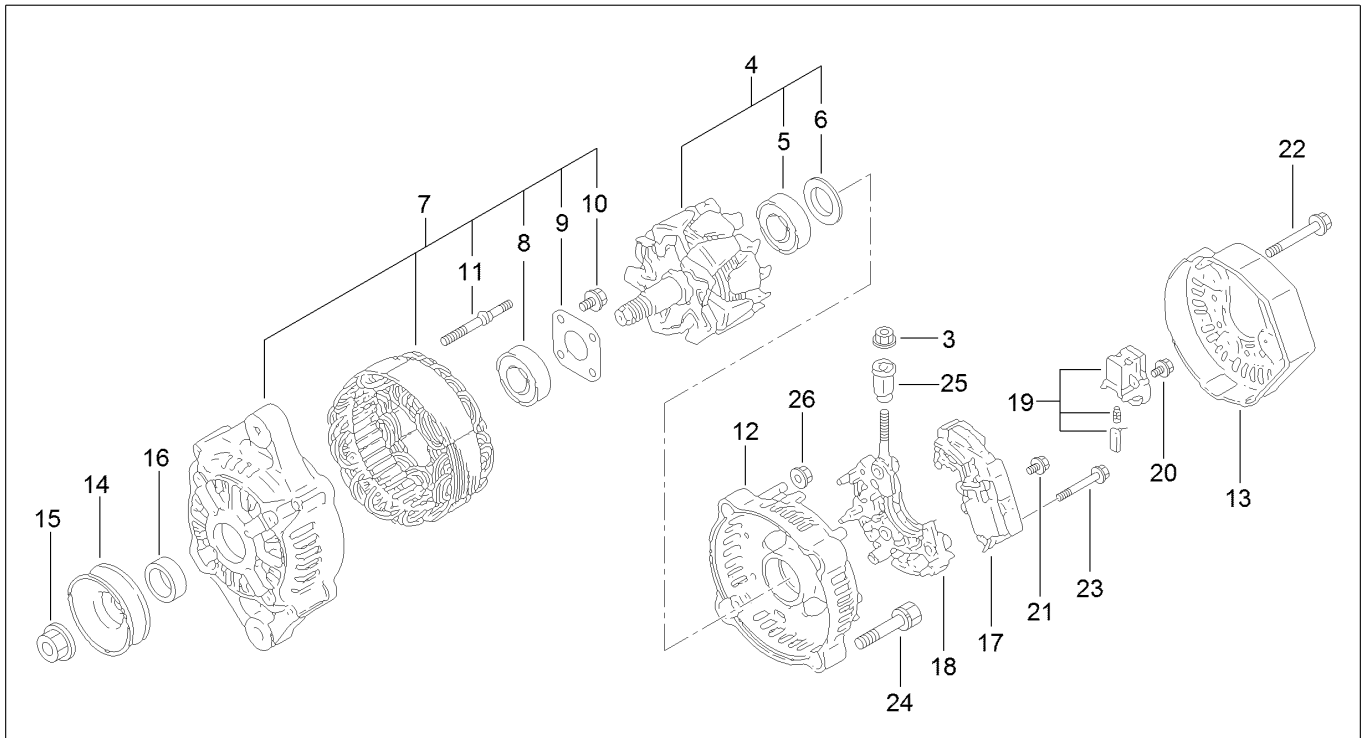


Starting Motor Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	127-3818	1	Starter ASM
2	127-3819	1	Switch ASM
3	127-3820	1	Armature ASM
4	127-3821	1	Yoke ASM
5	127-3822	1	Brush Holder ASM
6	127-3823	2	Brush
7	127-3824	1	Brush Set
8	127-3825	4	Spring
9	127-3826	1	Cover ASM
10	127-3827	1	Metal
11	127-3828	3	Gear
12	127-3829	1	Bracket

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
13	127-3830	1	Bracket
14	127-3831	1	Gear
15	127-3832	1	Bracket
16	127-3833	1	Pinion ASM
17	127-3834	1	Shaft
18	127-3835	1	Washer Set
19	127-3836	1	Case ASM
20	127-3837	1	Metal-Starter
21	127-3838	1	Lever Set
22	127-3839	1	Dust Cover ASM
23	135-4024	2	Bolt-Through
24	125-7225	2	Bolt

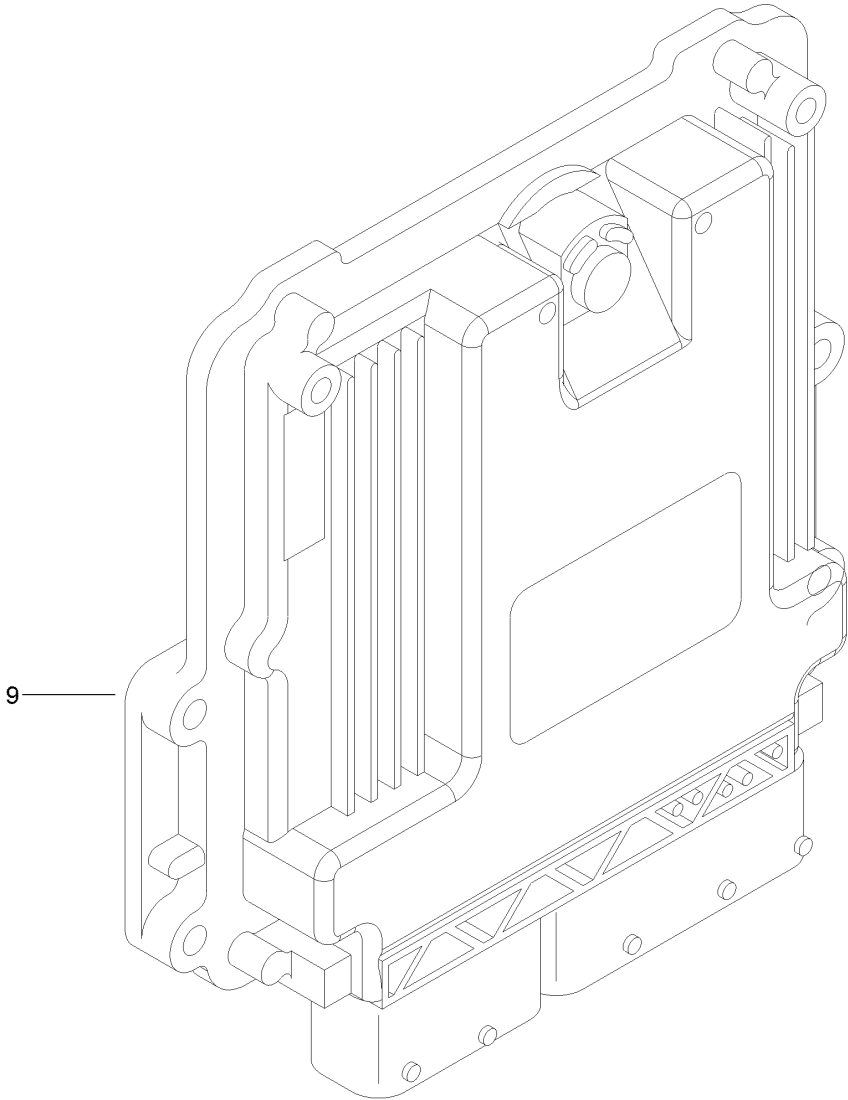
Generator Assembly



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	127-3011	1	Stud	17	135-4026	1	Regulator ASM
2	139-6018	1	Generator	18	127-3848	1	Holder
3	127-3190	1	Nut	19	127-2993	1	Holder
4	127-3843	1	Rotor ASM	20	127-2965	6	Screw
5	127-2983	1	Bearing-Ball	21	127-2966	1	Screw
6	127-2962	1	Cover	22	127-2967	3	Bolt
7	135-4025	1	Frame ASM	23	127-2968	2	Screw
8	127-2958	1	Bearing-Ball	24	127-2969	2	Bolt
9	127-2959	1	Plate-Retainer	25	127-2970	1	Bushing-Insulation
10	127-2960	4	Screw	26	127-2971	2	Nut
11	127-2961	2	Stud	27	125-7230	1	Nut
12	127-3845	1	Frame	28	125-6947	1	Spacer
13	127-3846	1	Cover	29	127-2977	1	Adjuster
14	127-2954	1	Pulley	30	135-4027	1	Bolt-Adjust
15	127-2955	1	Nut	31	125-7219	1	Bolt
16	127-2957	1	Collar				

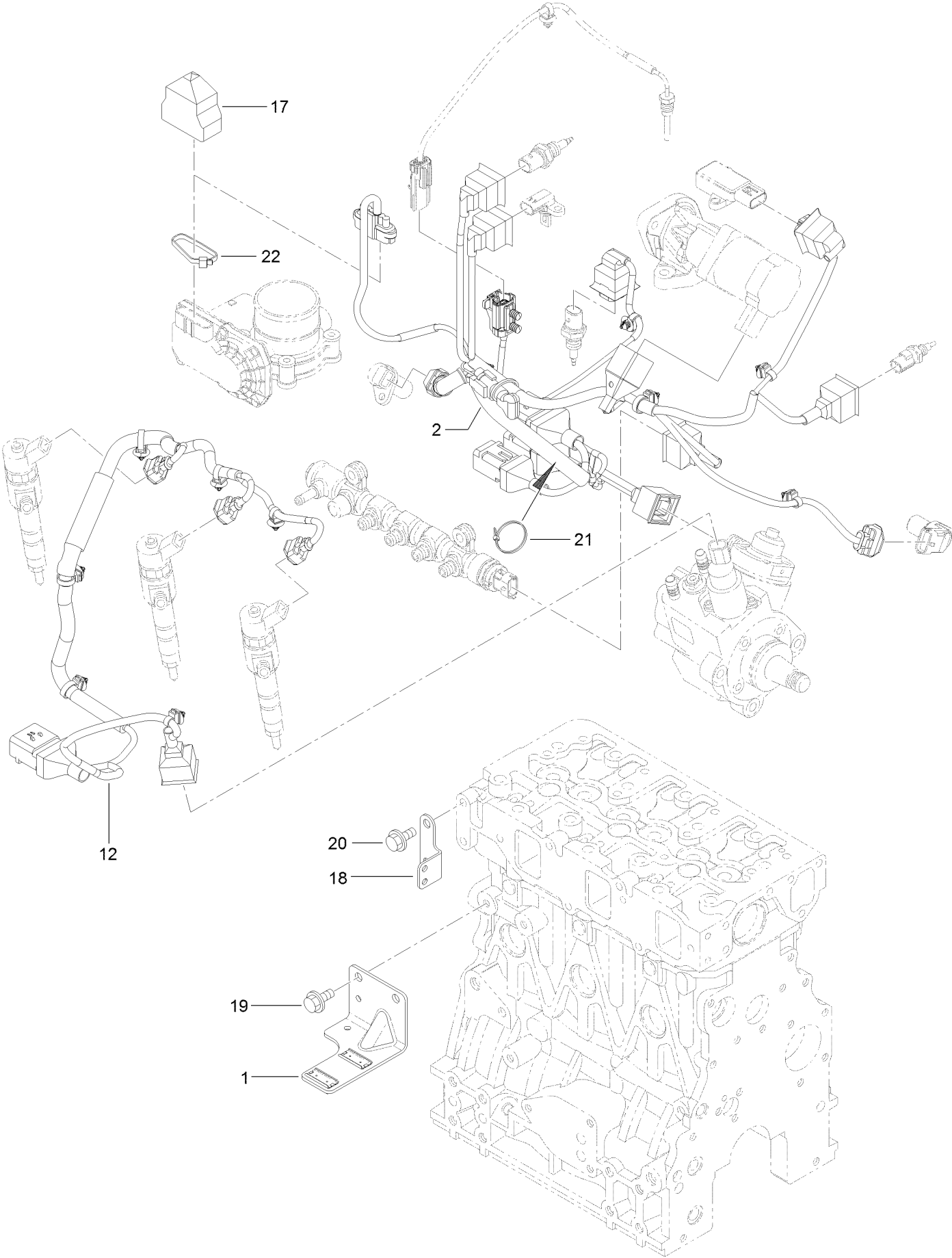
Electronic Control Unit Assembly



Electronic Control Unit Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
9	121-5592	1	Electronic Control Unit

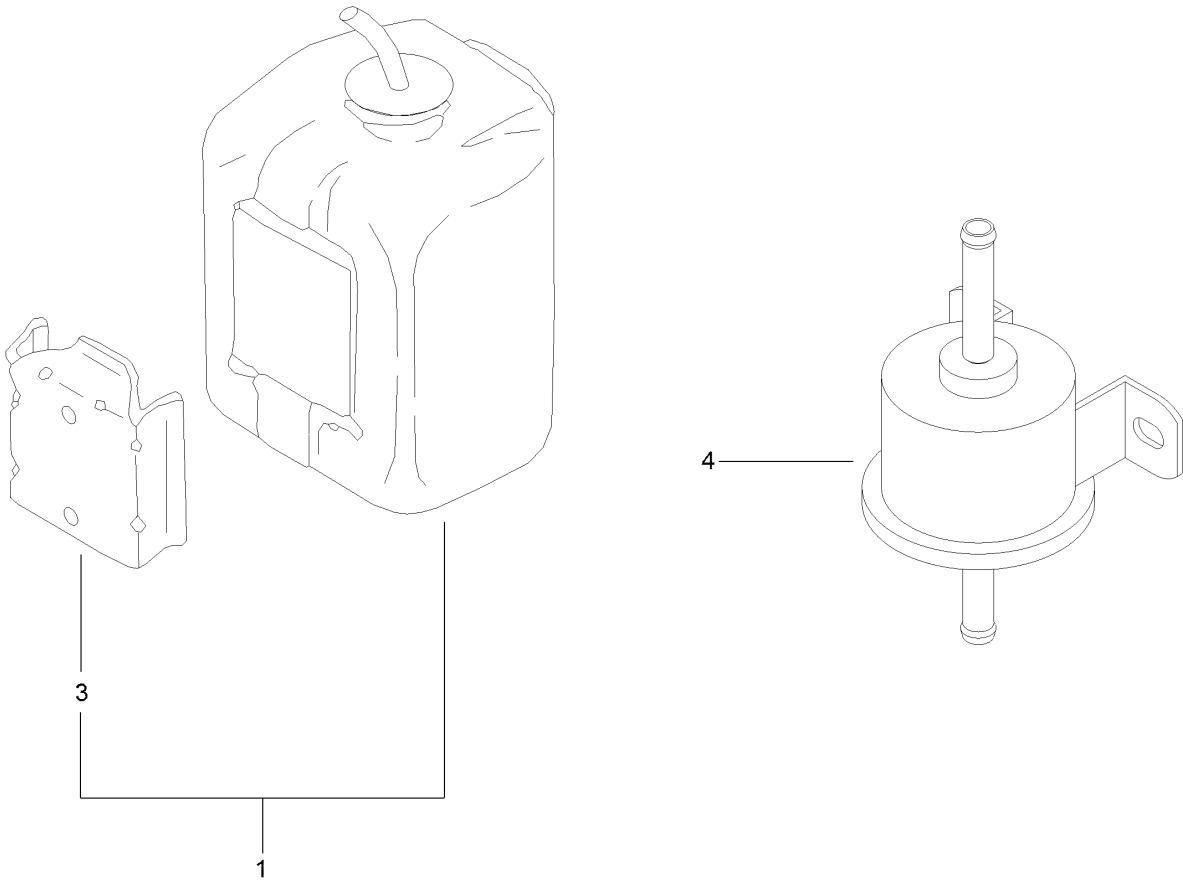
Electric Parts Assembly



Electric Parts 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	130-7436	1	Bracket-Connector	19	125-7213	2	Bolt
2	135-4029	1	Harness	20	125-7212	2	Bolt
12	130-7438	1	Harness	21	127-3187	1	Band
17	131-2713	1	Boot-Cap	22	127-3188	1	Band
18	127-3090	1	Bracket-Harness				

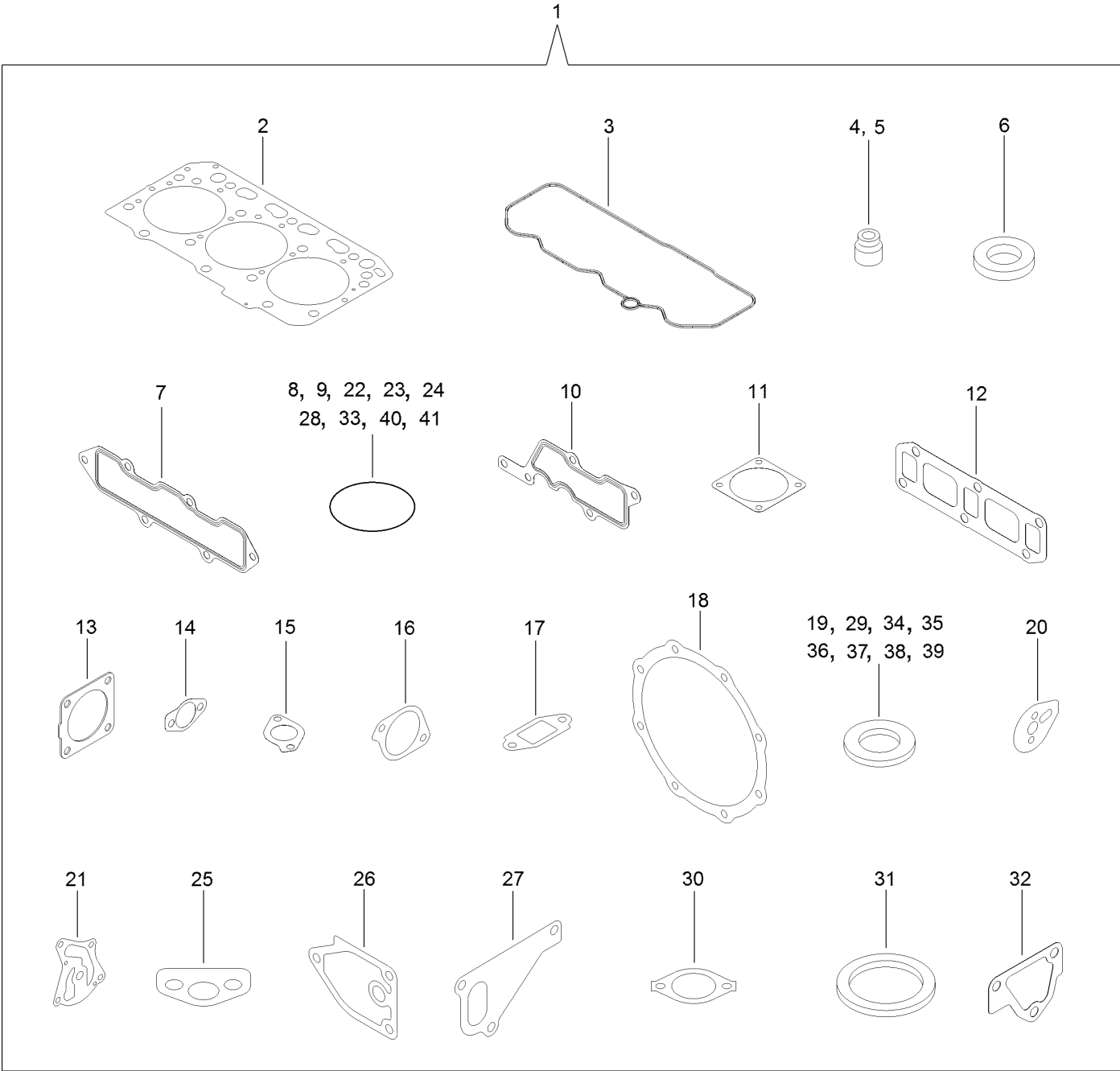
Accessory Assembly



Accessory Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7185	1	Tank ASM
3	140-7165	1	Bracket-Tank
4	121-5613	1	Pump-Fuel, Electric

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	130-7440	1	Packing (Gasket Set)	21	127-3004	1	Gasket
2	127-4716	1	Head Gasket ASM	22	125-6909	2	O-Ring
3	127-3762	1	Gasket-Cover, Cylinder Head	23	127-2973	1	O-Ring
4	127-2986	3	Seal-Stem, Valve	24	125-7075	1	O-Ring
5	127-3027	3	Seal-Stem, Valve	25	125-7022	1	Gasket
6	127-3021	3	Gasket-Injector	26	125-7024	1	Gasket
7	127-3769	1	Gasket-Manifold, Intake	27	125-7047	1	Gasket
8	127-3032	2	O Ring-Sensor, Pressure	28	125-7048	1	O-Ring
9	127-3033	1	O-Ring	29	125-6979	1	Gasket
10	127-3034	1	Gasket-Collector	30	125-7110	1	Gasket
11	127-3037	2	Gasket-Throttle	31	125-7026	1	Gasket
12	127-3775	1	Gasket-Manifold, Exhaust	32	125-6978	1	Gasket
13	127-2987	1	Gasket-Silencer	33	127-3074	1	O-Ring
14	127-3043	2	Gasket-Cooler, E G R	34	125-7174	1	Washer-Seal
15	127-3016	1	Gasket	35	125-7176	1	Washer-Seal
16	127-3050	1	Gasket-Intake Valve, E G R	36	127-3166	2	Washer-Seal
17	127-3051	1	Gasket-Out Valve, E G R	37	125-7177	1	Washer-Seal
18	127-3787	2	Gasket-D P F	38	125-7192	1	Gasket
19	127-3056	4	Gasket-Sensor	39	127-3174	2	Gasket
20	127-3069	1	Gasket-Idle, Shaft B	40	138-7829	3	O-Ring
				41	125-7197	2	O-Ring

Attachments and Accessories

For 31902 Groundsmaster 3300 All-Wheel Drive Traction Unit

Product Name	Model/Part
Operator Cooling Fan	03247
Switch Panel	03248
Filter-Air	108-3810
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
Fuel/Water Separator Filter.....	125-2915
Engine Oil Filter	125-7025
PX Hydraulic Fluid (5 Gal)	133-8086
PX Hydraulic Fluid (55 Gal).....	133-8087
Beacon Kit	138-2699
Work Lights Kit.....	138-2700
Wrench-Caster Cap/Latch	138-6367
Storage Bag Kit.....	139-2020
SMV Kit.....	139-2339
Filter-Fuel	139-6017
Power Harness Kit	140-1559
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
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

Attachments and Accessories (continued)

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

Paint-spray, Toro Semi-gloss Black 361-9

Filter-Oil, Transmission..... 86-3010

Notes:

Notes:



Count on it.