



Form No. 3466-403 Rev C

Count on it.

Parts Catalog

Groundsmaster® 3200

All-Wheel Drive Traction Unit

Model No. 31901A—Serial No. 400000000 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.

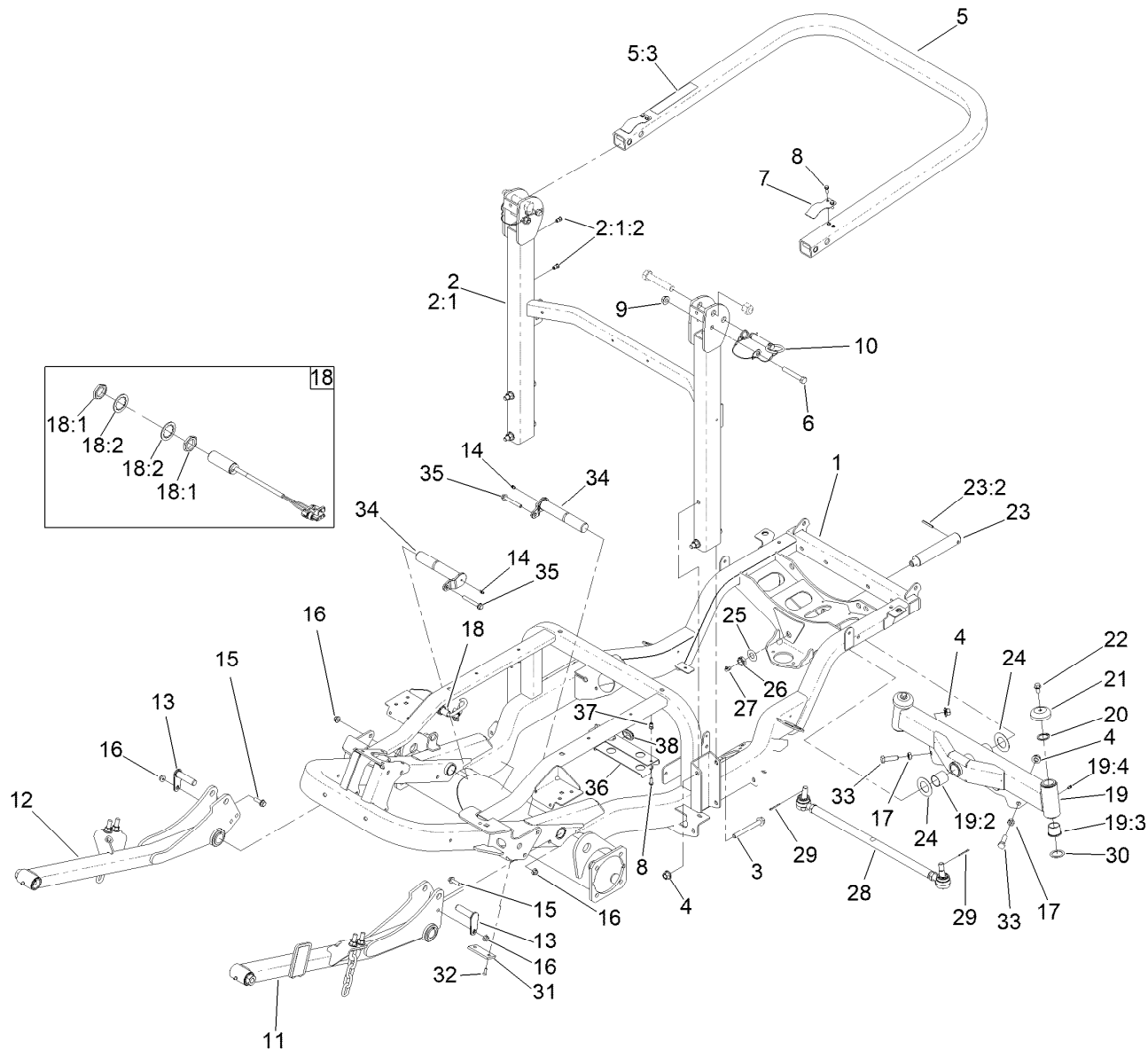
Reference Numbers Indicating Quantity

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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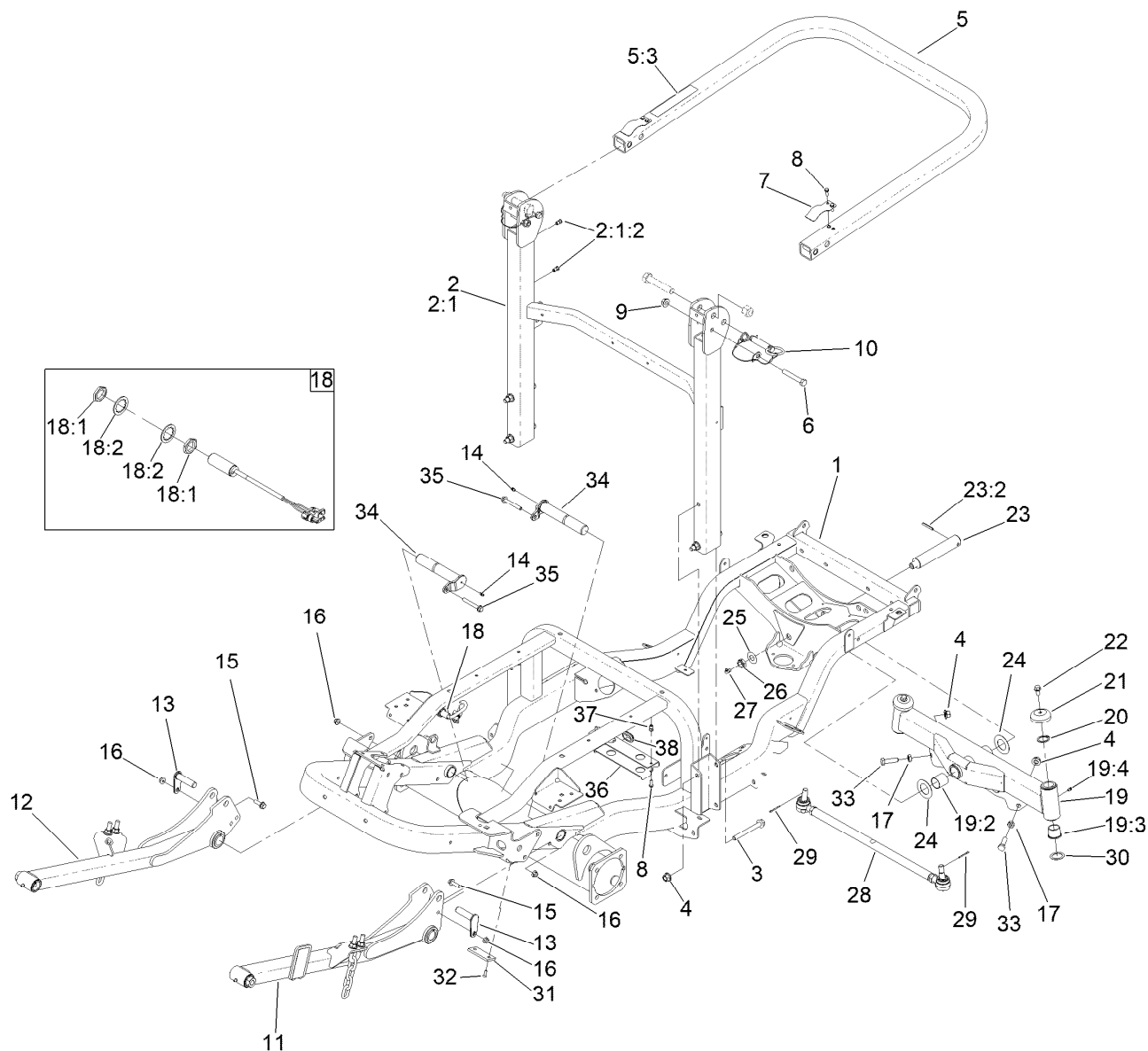


Frame and Roll-Over Protection System Assembly

Ref.	Part Number	Qty.	Description
1	145-6050SP	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	6	Nut-HF Nylock
5	138-7470	1	ROPS ASM, Upper
5:3	108-2073	1	Decal-Warning
6	325-13	2	Screw-HH
7	110-5696	2	Spring-Leaf
8	32105-15	6	Screw-HWH
9	32128-23	2	Nut-HF
10	103-4553	2	ROPS Fold Pin ASM
11	144-3943	1	Lift Arm ASM. LH
12	144-3942	1	Lift Arm ASM. RH
13	138-7489	2	Pin (Machined)
14	302-5	2	Fitting-Grease
15	119-4061	2	Screw-HHF

Ref.	Part Number	Qty.	Description
16	104-8301	4	Nut-HF, NI
17	3218-5	2	Nut-Jam
18	115-5300	1	Proximity Switch ASM
18:1	117-3207	2	Nut-Hex
18:2	117-3208	2	Washer-Lock, Internal Tooth
19	138-4588	1	Axle ASM
19:2	99-6964	2	Bushing-Axle
19:3	104-0015	4	Bushing-Flange
19:4	302-5	2	Fitting-Grease
20	32151-77	2	Ring-Retaining, External
21	69-8890	2	Cap-Spindle
22	3234-1	2	Screw-HHF
23	140-6101	1	Pin ASM-Axle Pivot
23:2	32121-32	1	Pin-Roll
24	99-8432	2	Washer-Thrust
25	71-4540	1	Washer-Thrust
26	3296-15	1	Nut-Lock, NI
27	302-33	1	Fitting-Grease

● Not serviced separately



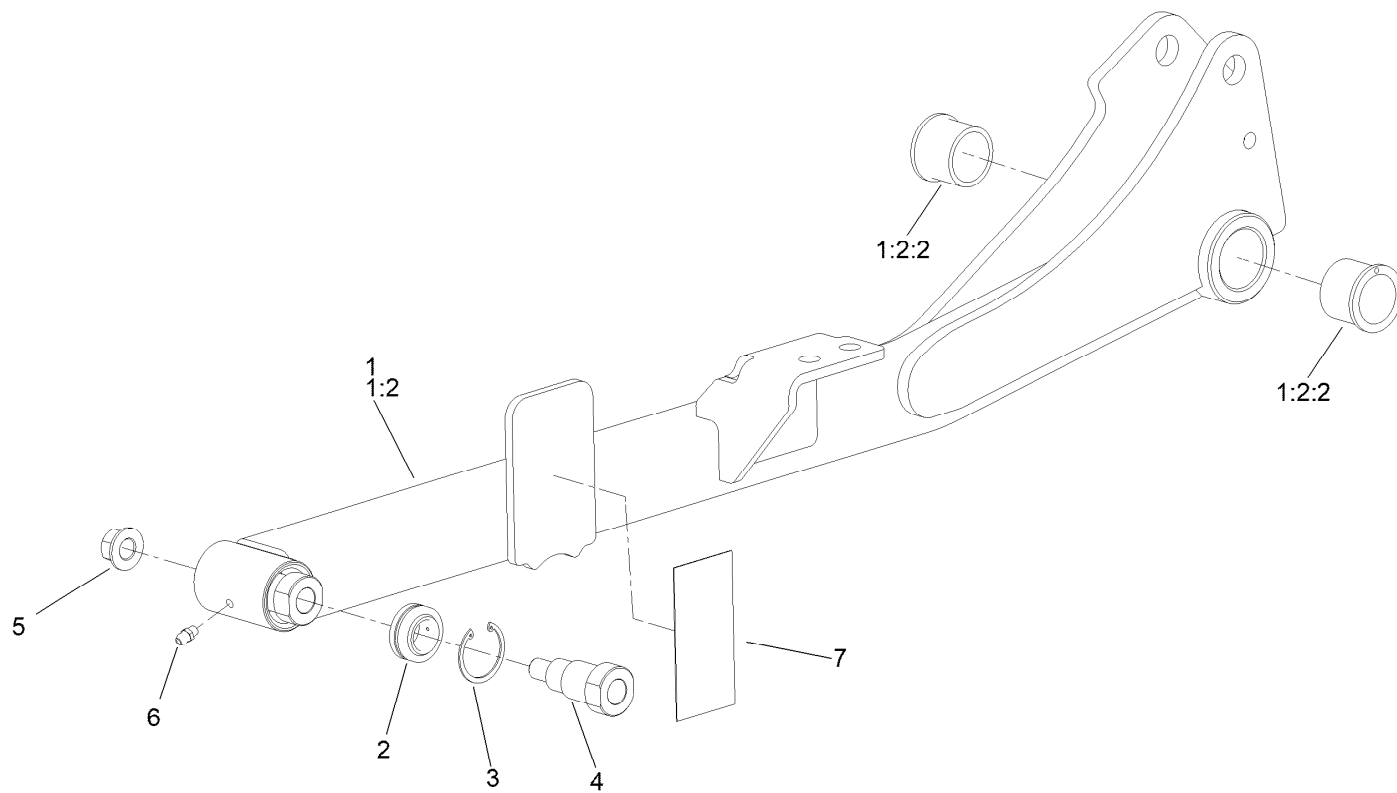
Frame and Roll-Over Protection System Assembly (continued)

Ref.	Part Number	Qty.	Description
28	144-3900	1	Tie Rod ASM
29	3272-12	2	Pin-Cotter
30	76-2980	2	Washer-Thrust
31	138-4452	2	Pad-Stop, Deck
32	3289-4	4	Screw-FH
33	325-7	2	Screw-HH

Ref.	Part Number	Qty.	Description
34	138-4593	2	Pin
35	133-9682	2	Screw-Hfh
36	147-0045-0P	1	Channel-Harness Retainer
37	138-2758	2	Nut-Clinch, Hex
38	240-5	1	Grommet

● Not serviced separately

LH Lift Arm Assembly No. 144-3943



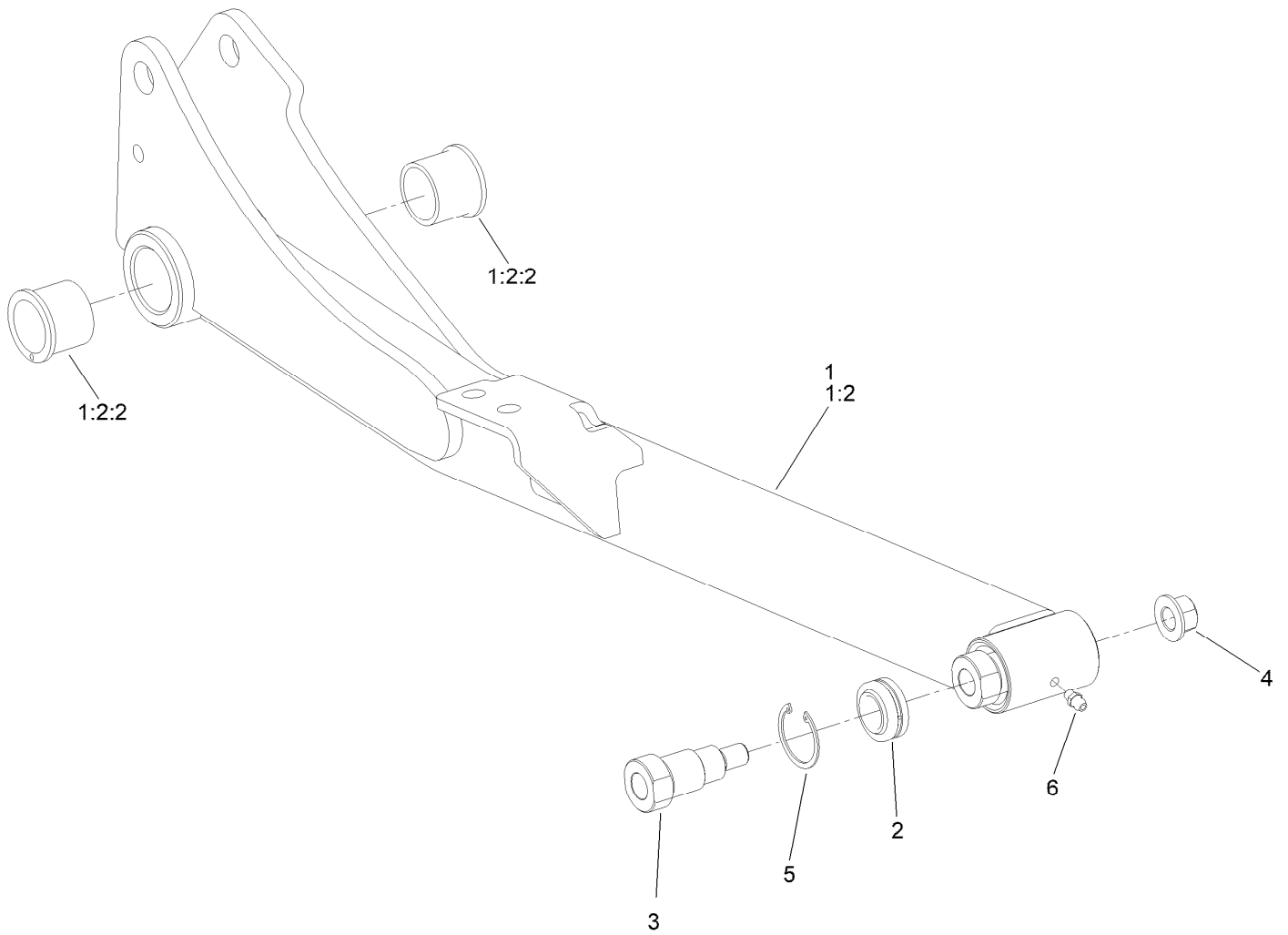
LH Lift Arm Assembly No. 144-3943 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1		1	Lift Arm ASM, LH ●
1:2		1	Hub-ASM ●
1:2:2	104-0015	2	Bushing-Flange
2	105-7441	1	Bearing-Spherical
3	32151-34	1	Ring-Retaining

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	139-0910	1	Bolt-Shoulder
5	99-5107	1	Nut-HF Nylock
6	302-5	1	Fitting-Grease
7	139-0948	1	Pad-Ride, Pin

● Not serviced separately

RH Lift Arm Assembly No. 144-3942

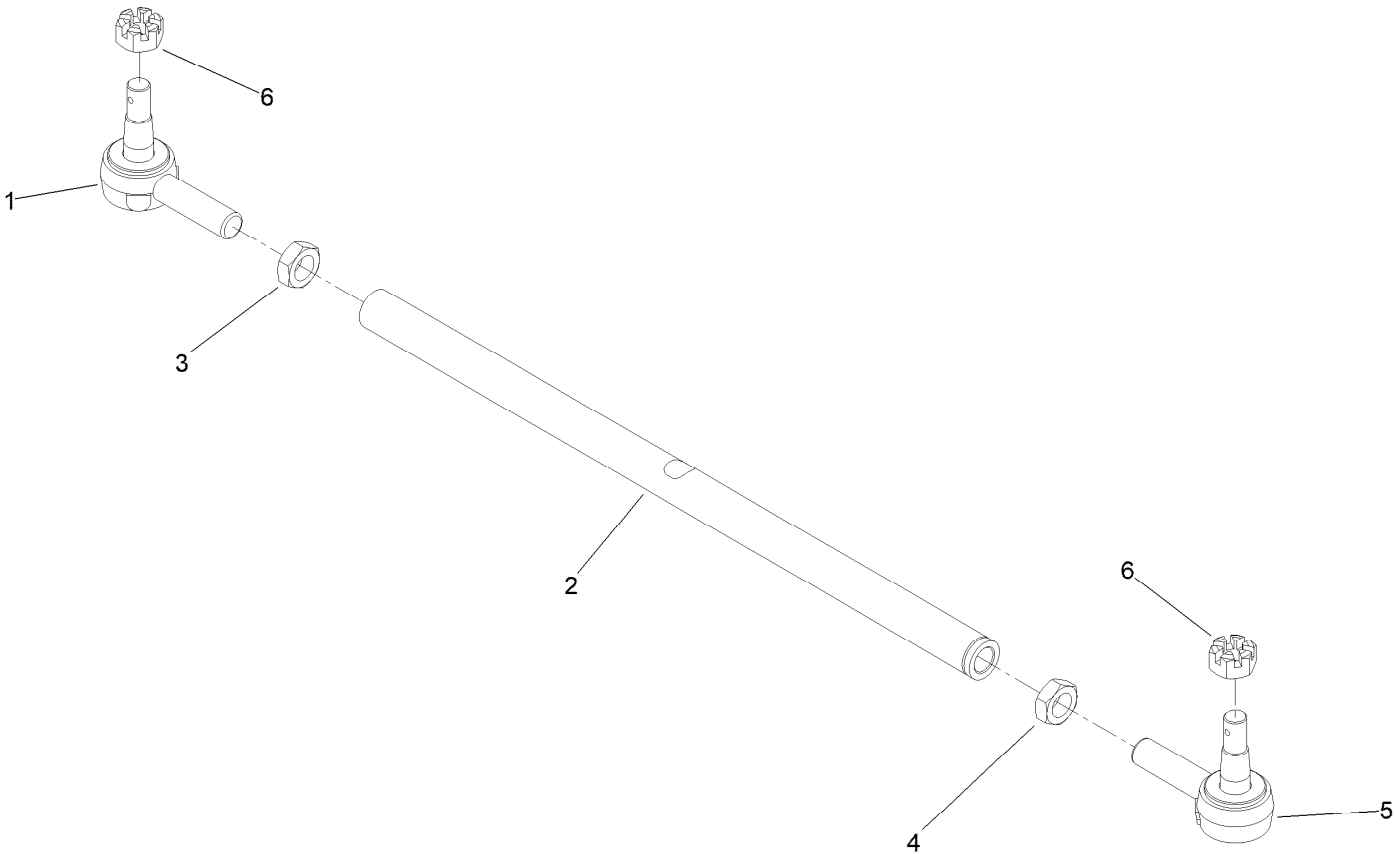


RH Lift Arm Assembly No. 144-3942 (continued)

<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		1	Lift Arm ASM, RH ●	3	139-0910	1	Bolt-Shoulder
1:2		1	Hub-ASM ●	4	99-5107	1	Nut-HF Nylock
1:2:2	104-0015	2	Bushing-Flange	5	32151-34	1	Ring-Retaining
2	105-7441	1	Bearing-Spherical	6	302-5	1	Fitting-Grease

● Not serviced separately

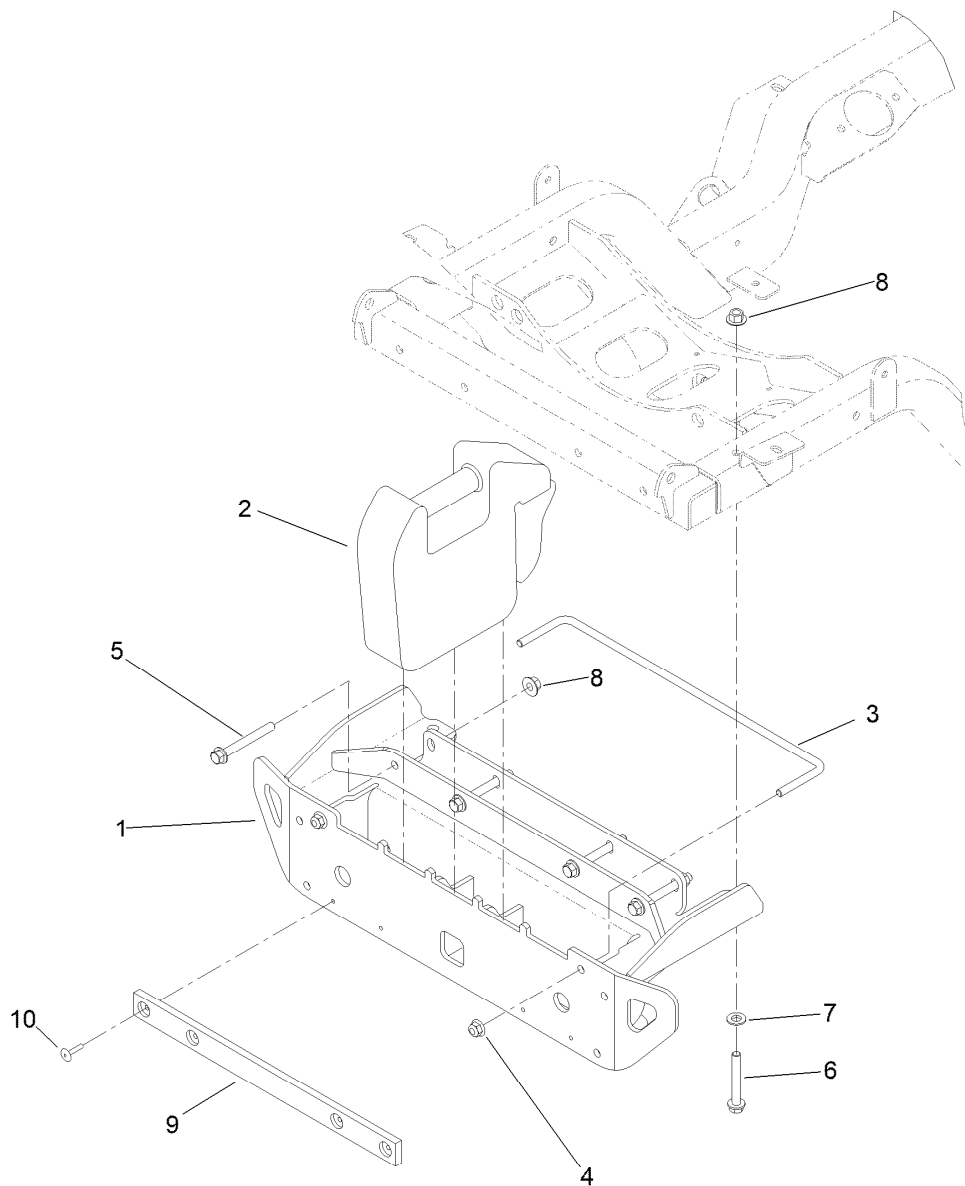
Tie Rod Assembly No. 144-3900



Tie Rod Assembly No. 144-3900 (continued)

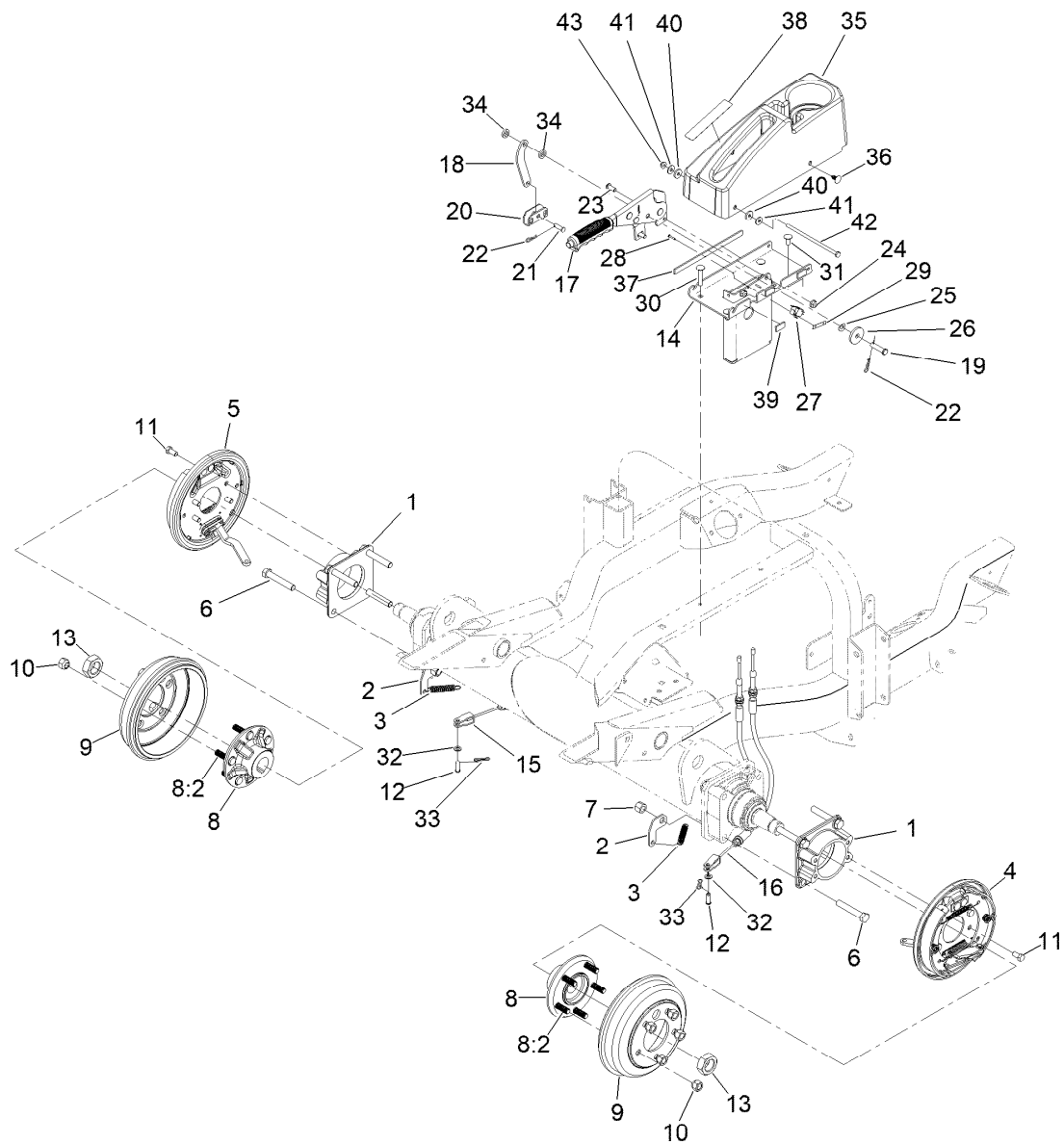
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	144-3901	1	Tie Rod End
2	133-6463	1	Tie-Rod
3	84-5300	1	Nut-Jam

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	110-5337	1	Nut-Jam
5	144-3902	1	Tie Rod End
6	140-6135	2	Nut-Hex, Slotted



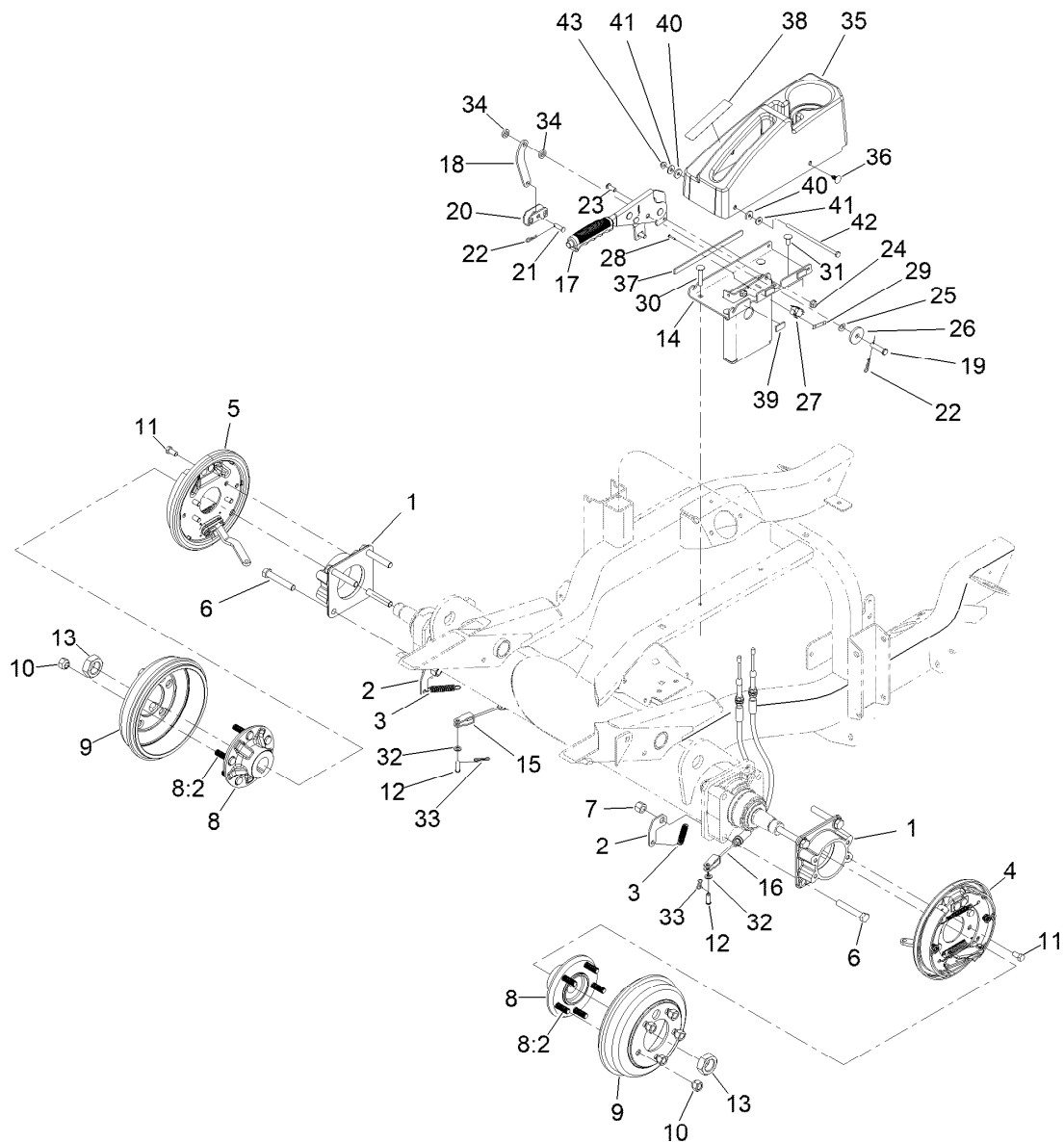
Bumper and Weight Assembly

Ref.	Part Number	Qty.	Description
1	145-5981SP	1	Bumper-Rear Wa
2	114-4096	1	Weight
3	125-2667	1	Lock-Weight
4	104-8301	2	Nut-HF, NI
5	3234-41	4	Screw-HHF
6	139-2429	2	Screw-HHF
7	3256-24	2	Washer-Plain
8	32128-43	6	Nut-Flange
9	144-4014	1	Bumper-Rubber
10	3269-11	4	Rivet-Pop



Brake Assembly

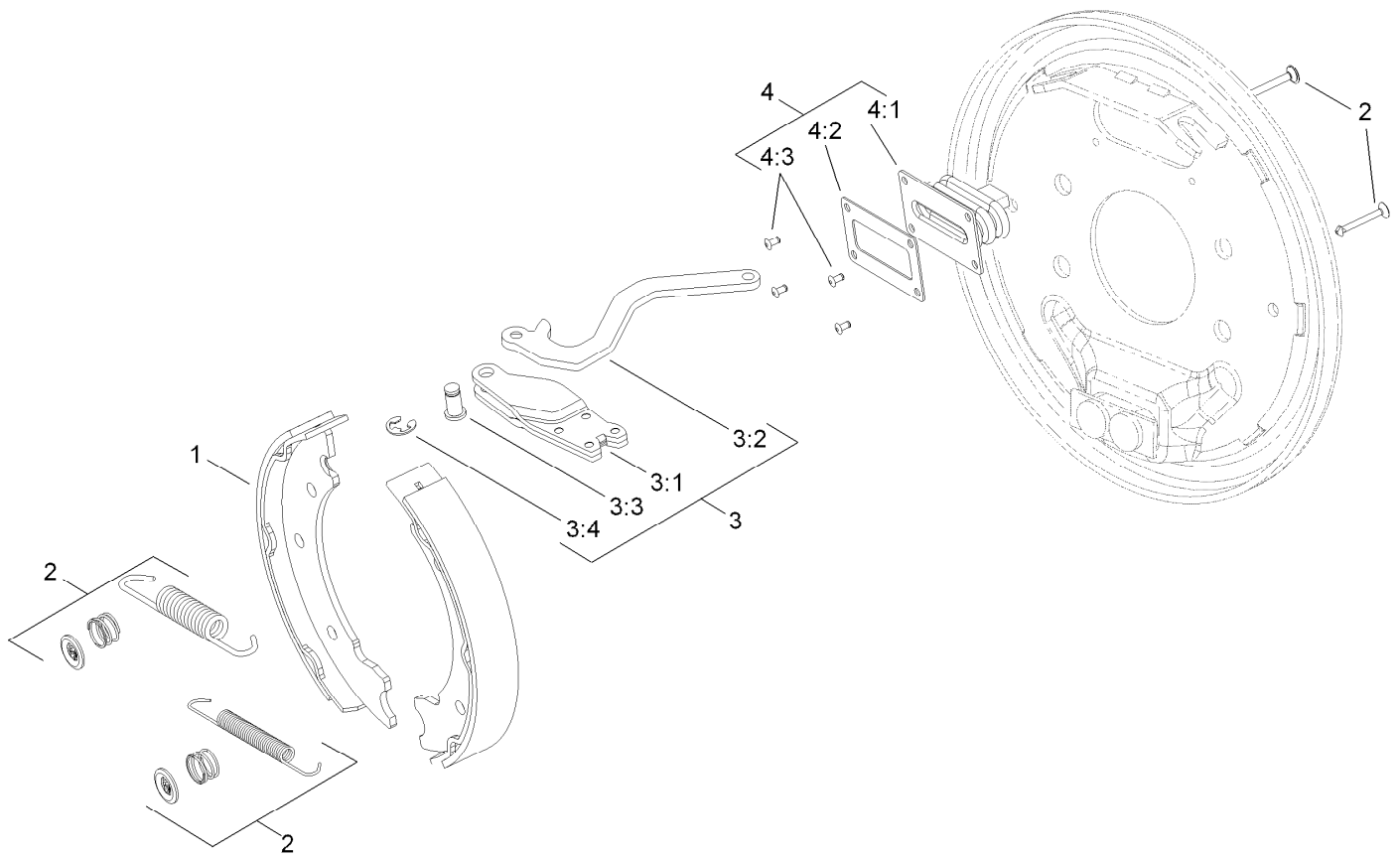
Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	120-6253-03	2	Adapter-Brake	20	87-3480	1	Bracket-Equalizer, Cable
2	138-4499	2	Clip-Spring	21	1-808280	1	Pin-Clevis
3	137-2591	2	Spring-Extension	22	1-806003	2	Pin-Cotter
4	120-0235	1	LH Brake ASM	23	3274-55	2	Screw-HSBH
5	120-0233	1	RH Brake ASM	24	104-8300	6	Nut-HF, NI
6	325-12	8	Screw-HH	25	121-4605	1	Washer-Spring
7	3296-23	8	Nut-Lock, NI	26	131-8496	1	Washer-Plain
8	137-2470	2	Hub ASM	27	108-6496	1	Switch (W/Boot)
8:2	114-3918	5	Stud-Wheel	28	95-3003	2	Screw-PPHTF
9	114-8864	2	Drum-Brake	29	3290-354	1	Nut-Speed
10	242-50	10	Nut-Lug	30	116-0629	2	Screw-CARR
11	323-4	8	Screw-HH	31	3230-23	2	Bolt-CARR
12	283-58	2	Pin-Clevis	32	3256-74	2	Washer-Flat
13	107-9319	2	Nut-Hex	33	119-1415	2	Pin-Cotter, Locking
14	147-0064-0P	1	Parking Brake Mount	34	3-3287	2	Spacer
			[primed]	35	138-7475	1	Cover-Brake, Parking
15	137-2640	1	Cable-Brake, Adjustable RH	36	117-2382	2	Plug-Plastic
16	137-2641	1	Cable-Brake, Adjustable LH	37	132-7282	1	Strip-Foam
17	131-8320	1	Lever-Brake, Park	38	139-6224	1	Decal-Brake, Parking
18	144-0516	1	Link-Park, Brake	39	115-5417	3	Strip-Foam
19	283-10	1	Pin-Clevis	40	144-0499	2	Washer-Epdm



Brake Assembly (continued)

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

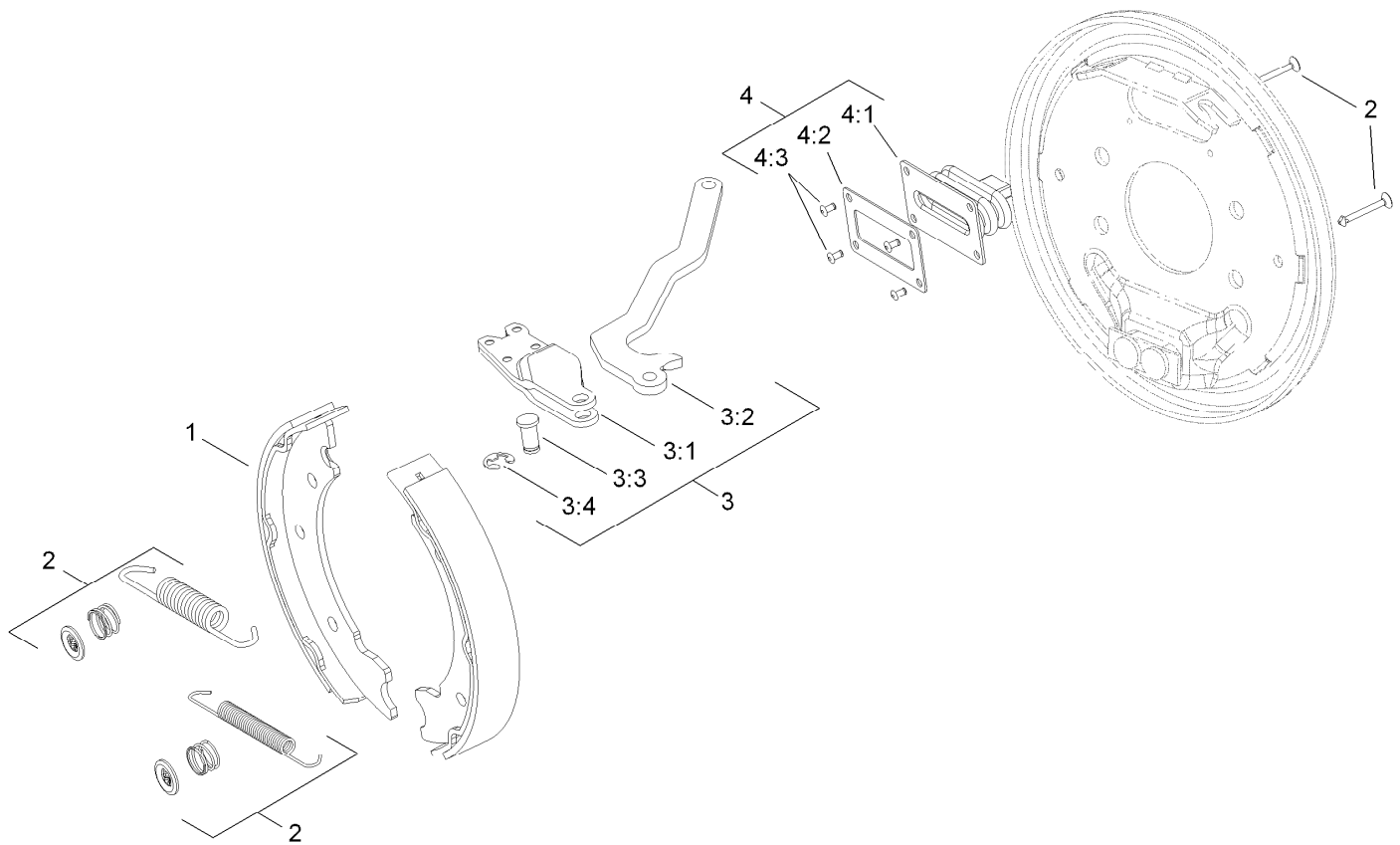
Ref.	Part Number	Qty.	Description
42	321-21	1	Screw-HH
43	104-7201	1	Nut-HF, NI



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 ●

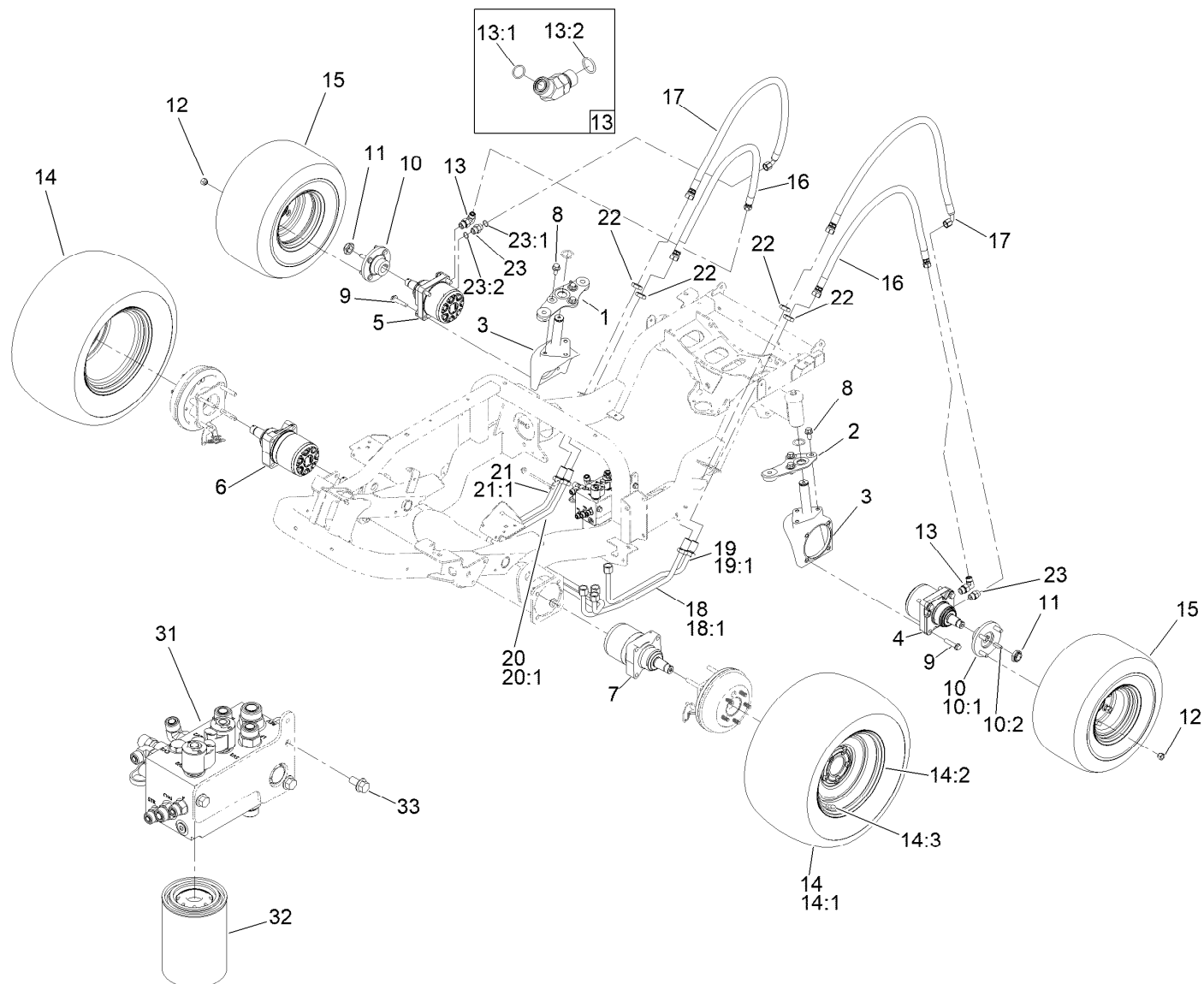
● Not serviced separately



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 ●

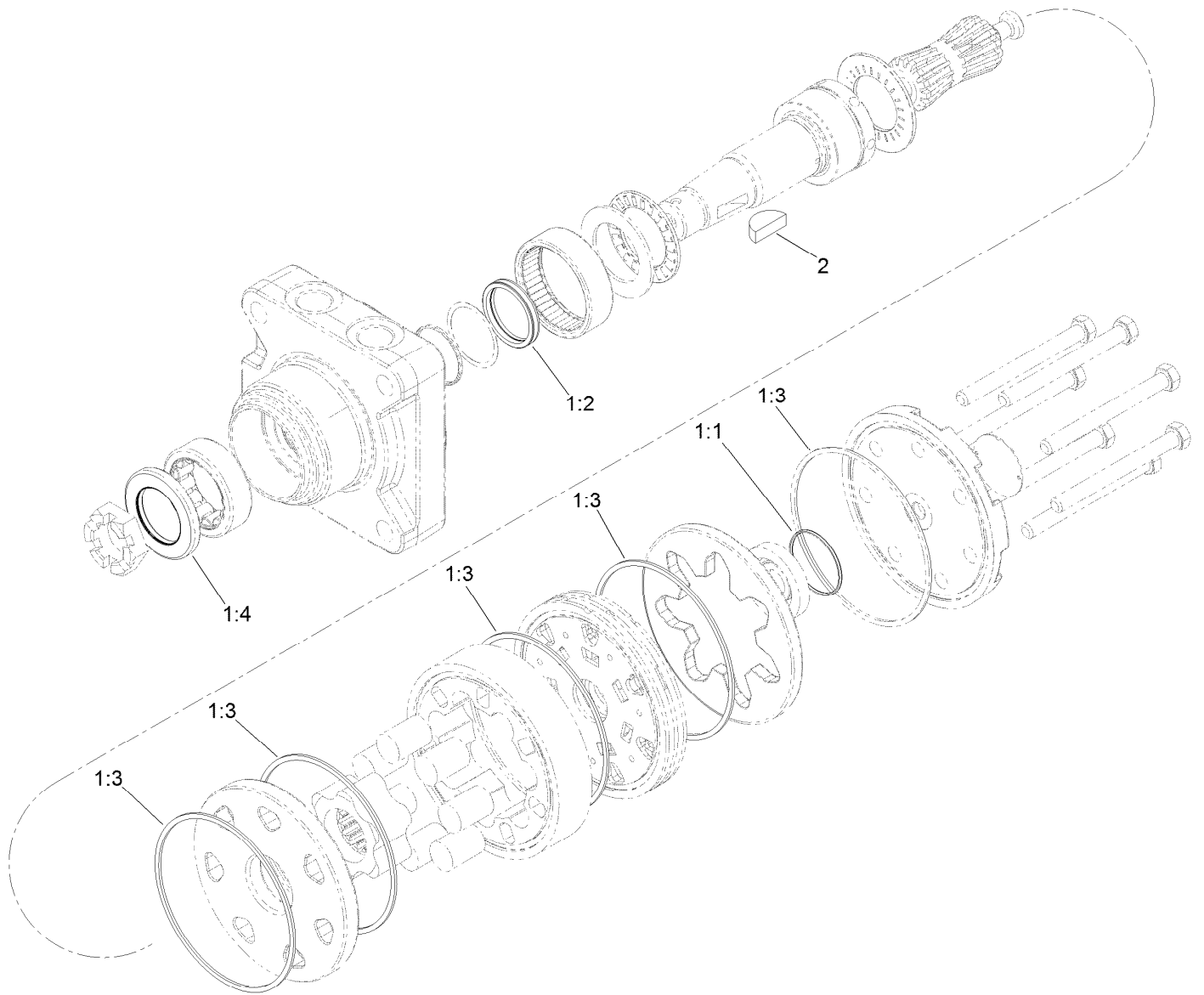
● Not serviced separately



Hydraulic Drive Assembly

Ref.	Part Number	Qty.	Description
1	140-3142	1	Link-Drag, RH
2	140-3144	1	Link-Drag, LH
3	107-4517-03	2	Housing-Motor
4	138-0435	1	Motor-Hydraulic, CCW
5	138-0436	1	Motor-Hydraulic, CW
6	137-2479	1	Motor-Hydraulic, CW
7	137-2459	1	Motor-Hydraulic, CCW
8	3234-38	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	340-105	2	Fitting-Elbow, 90 DEG
13:1	237-80	1	O-Ring
13:2	237-30	1	O-Ring
14	137-2593	2	Wheel ASM
14:1	137-2595	1	Rim
14:2	137-2581	1	Tire

Ref.	Part Number	Qty.	Description
14:3	232-27	1	Stem-Valve
15	137-2592	2	Wheel ASM
16	144-3929	2	Hose ASM, Hydraulic
17	144-3928	2	Hose ASM, Hydraulic
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	145-6069	1	Hydraulic Tube ASM
20:1	237-65	1	O-Ring
21	145-6071	1	Hydraulic Tube ASM
21:1	237-65	1	O-Ring
22	340-74	4	Nut-Lock, Bulkhead
23	340-6	2	Fitting-Straight
23:1	237-30	1	O-Ring
23:2	237-80	1	O-Ring
31	145-6080	1	Manifold Steering/Lift-4Wd
32	86-3010	1	Filter-Oil
33	3234-1	3	Screw-HHF

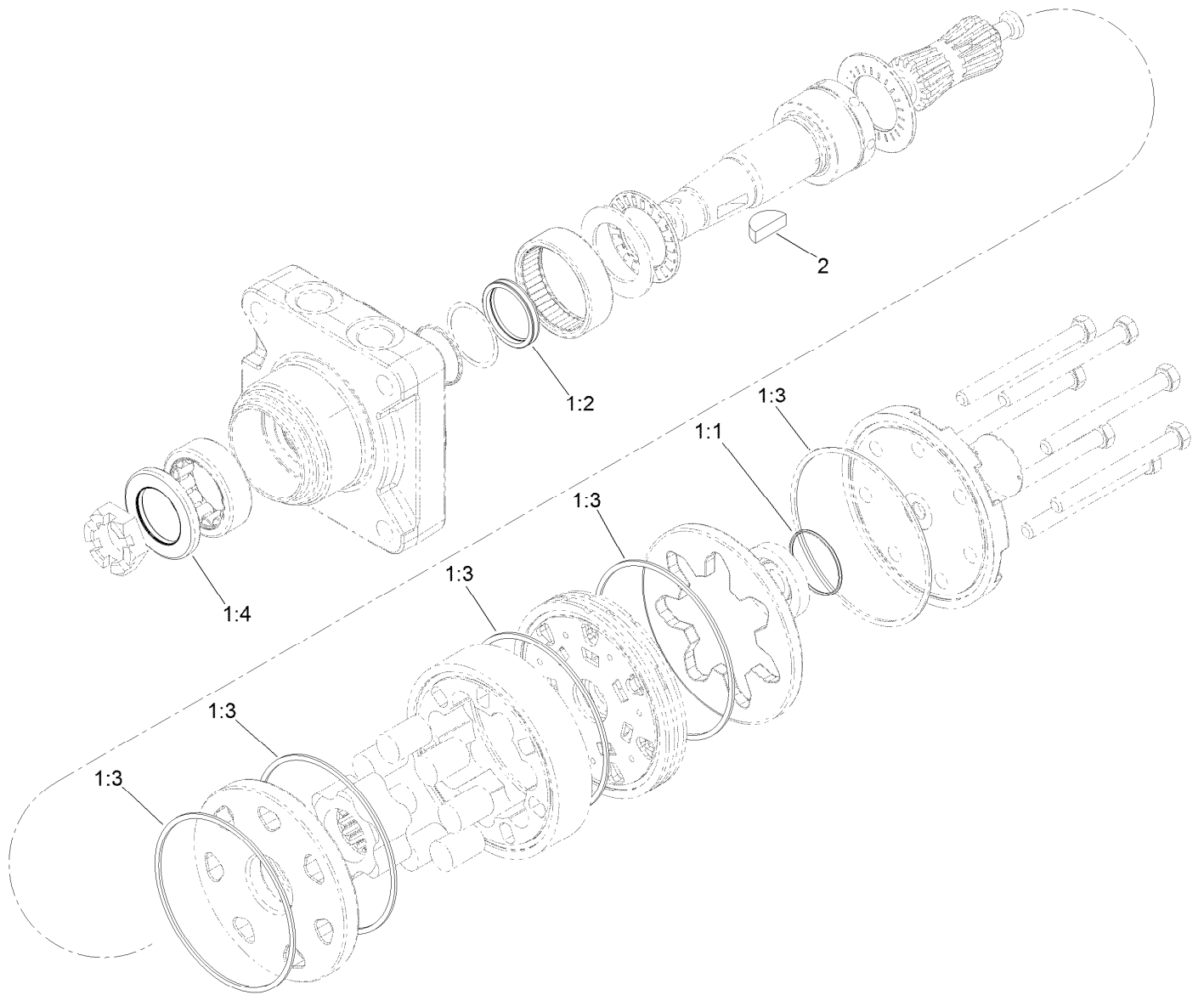


Hydraulic Motor Assembly No. 138-0435

Ref.	Part Number	Qty.	Description
1	110-8897	1	Seal Kit ●
1:1		1	Seal-Commutator, Vespel ■
1:2		1	Seal-Shaft ■
1:3		5	Seal-Body, Buna ■
1:4		1	Seal-Dirt / Water ■
2	3257-42	1	Key-Woodruff

● Not illustrated

■ Not serviced separately

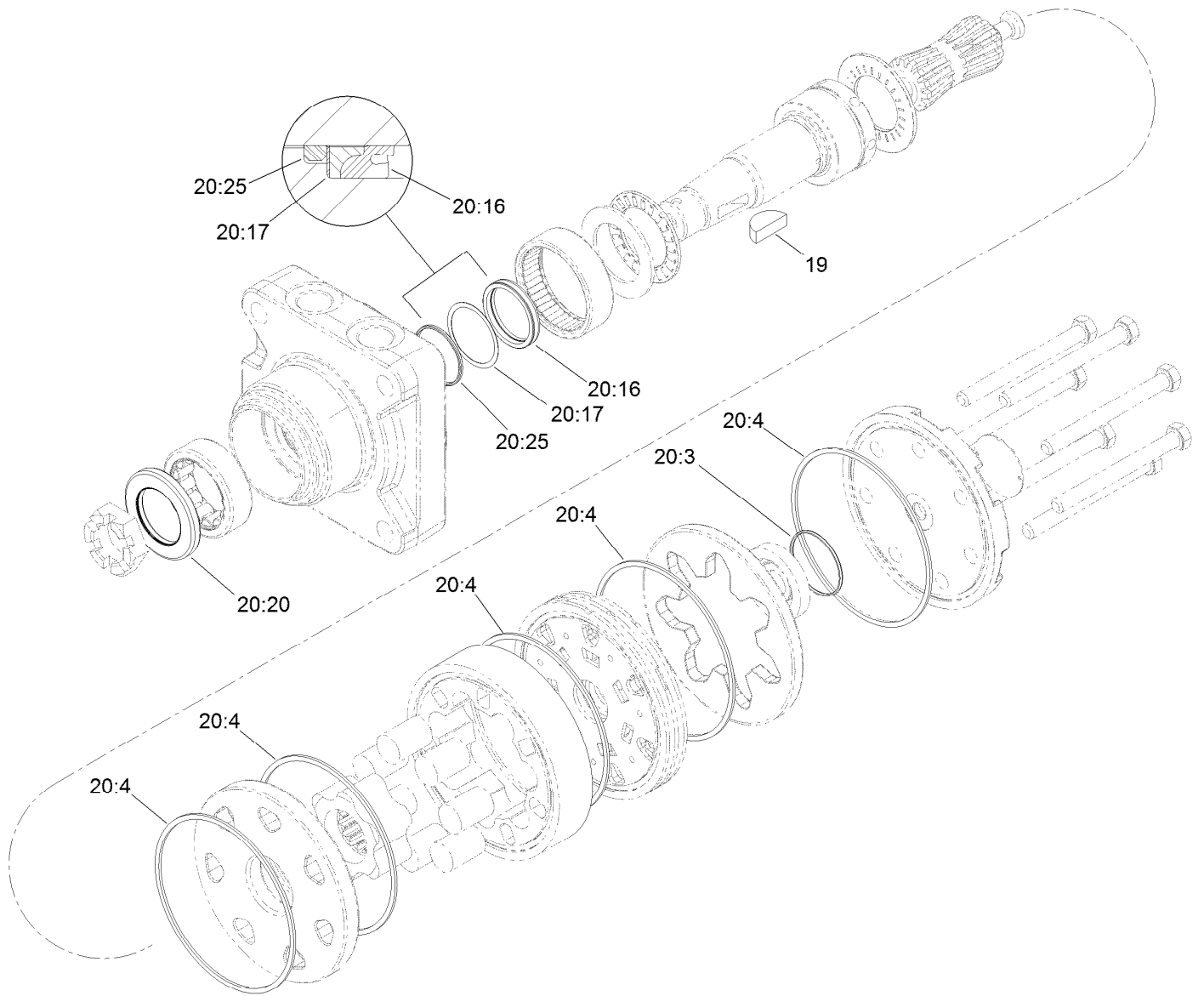


Hydraulic Motor Assembly No. 138-0436

Ref.	Part Number	Qty.	Description
1	110-8897	1	Seal Kit ●
1:1		1	Seal-Commutator, Vespel ■
1:2		1	Seal-Shaft ■
1:3		5	Seal-Body, Buna ■
1:4		1	Seal-Dirt / Water ■
2	3257-42	1	Key-Woodruff

● Not illustrated

■ Not serviced separately

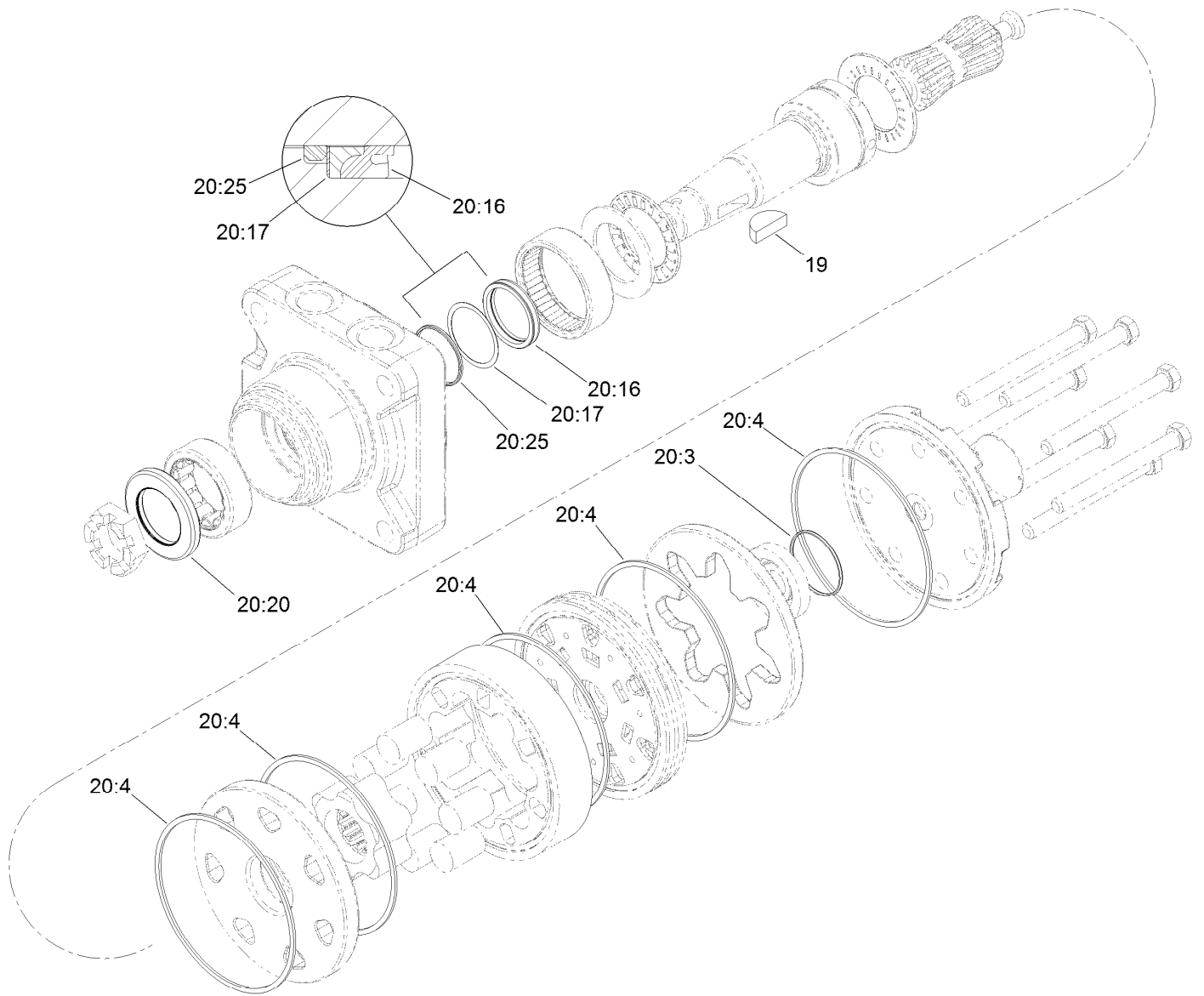


Hydraulic Motor Assembly No. 137-2479

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

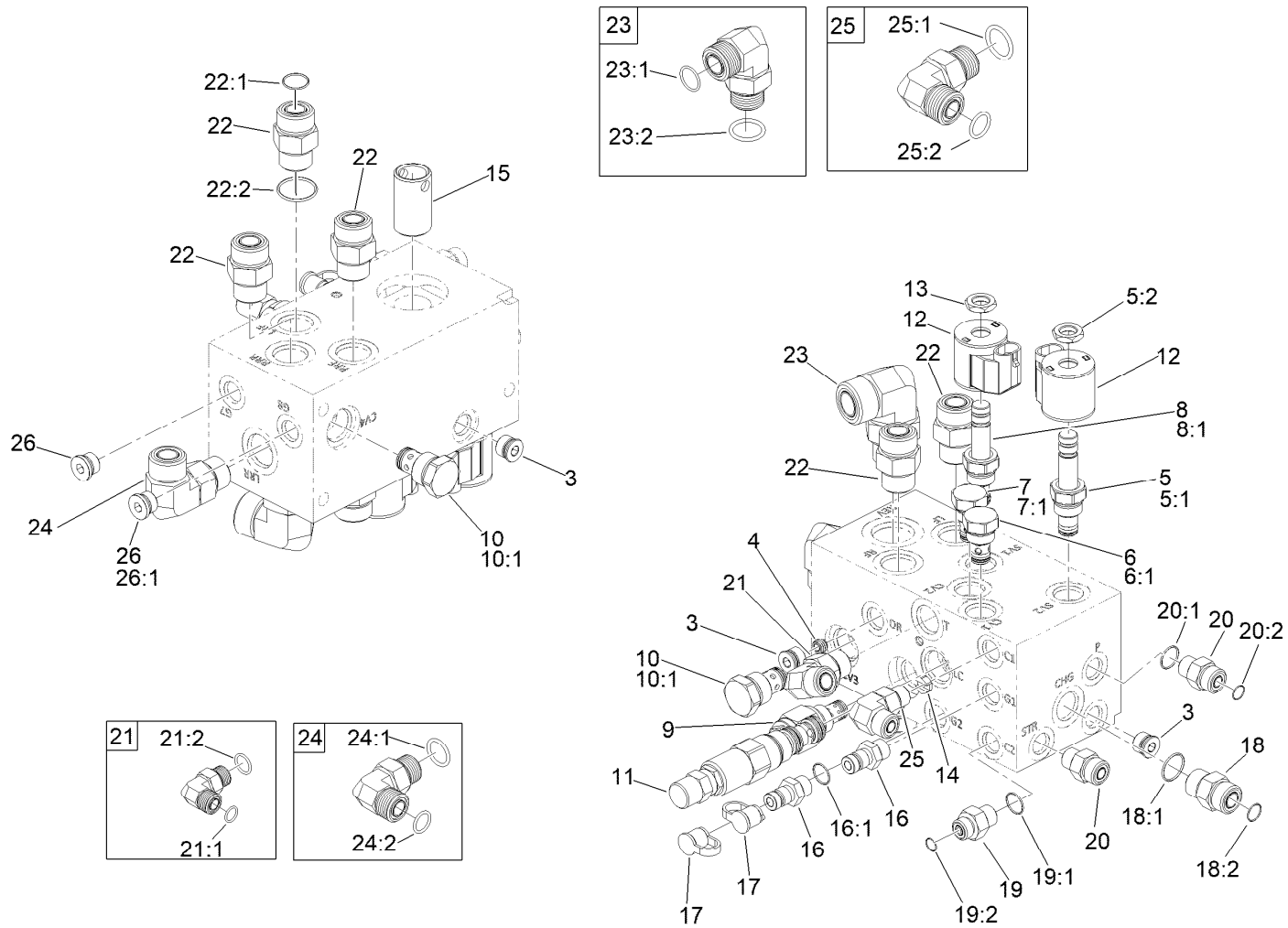


Hydraulic Motor Assembly No. 137-2459

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

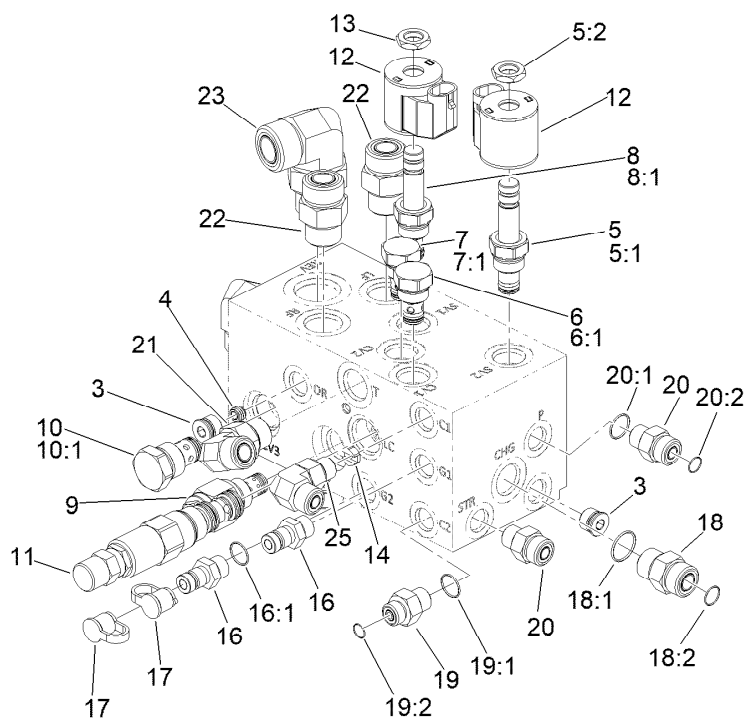
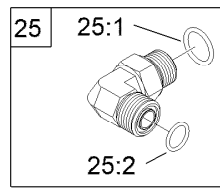
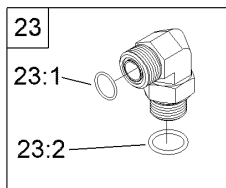
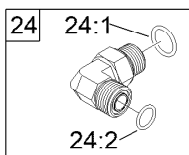
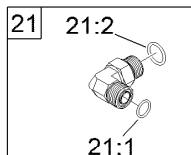
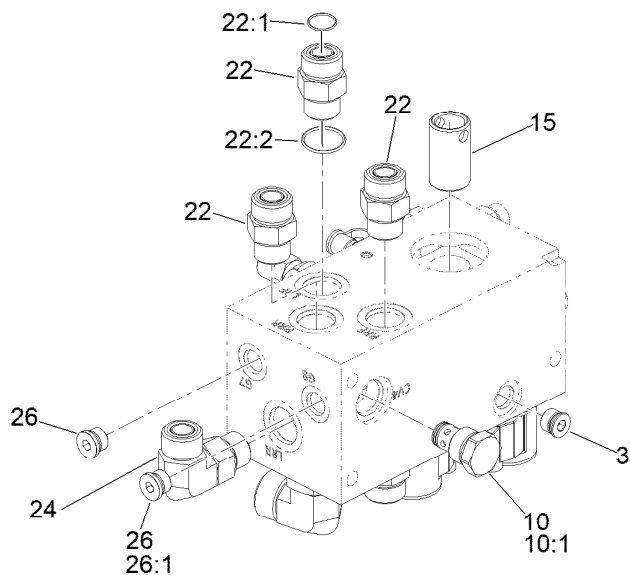


Steering/Lift Manifold Assembly No. 145-6080

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
7:1	105-9156	1	Seal Kit
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)
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

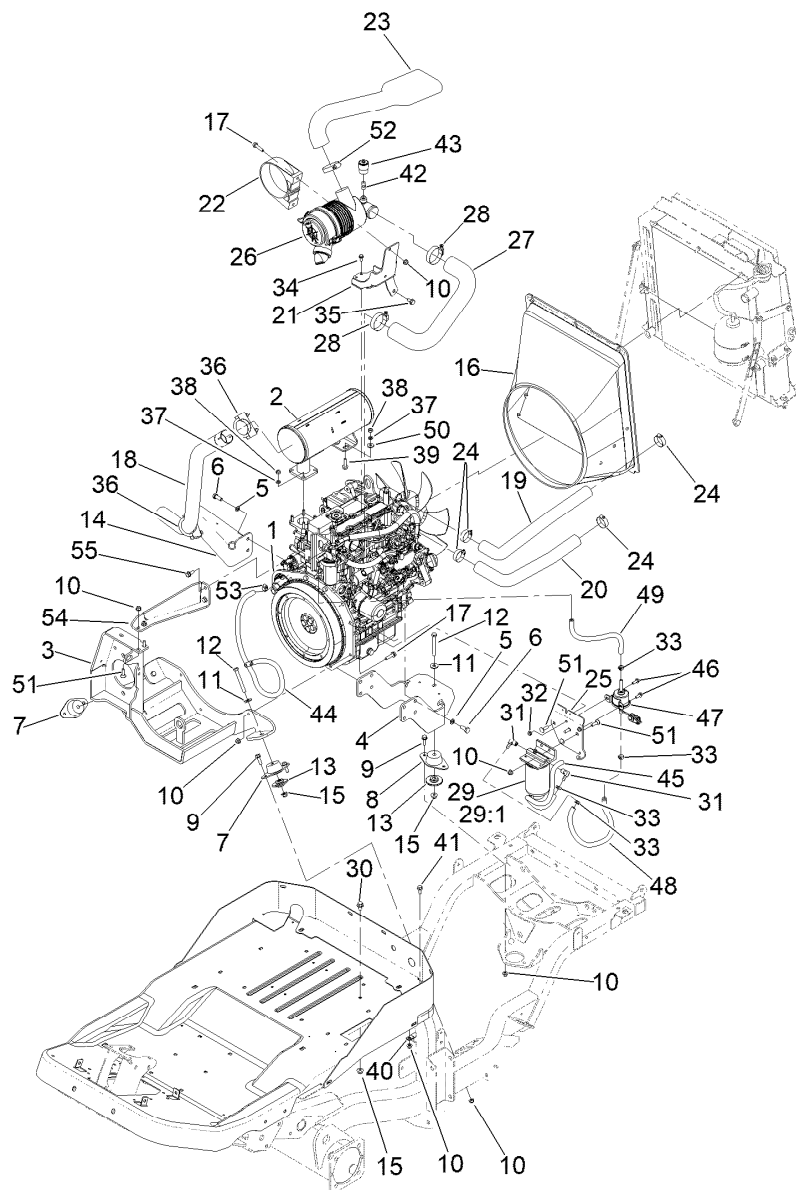


Steering/Lift Manifold Assembly No. 145-6080 (continued)

Ref.	Part Number	Qty.	Description
22:1	237-65	1	O-Ring
22:2	237-80	1	O-Ring
23	340-142	1	Fitting-Elbow, 90 DEG
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

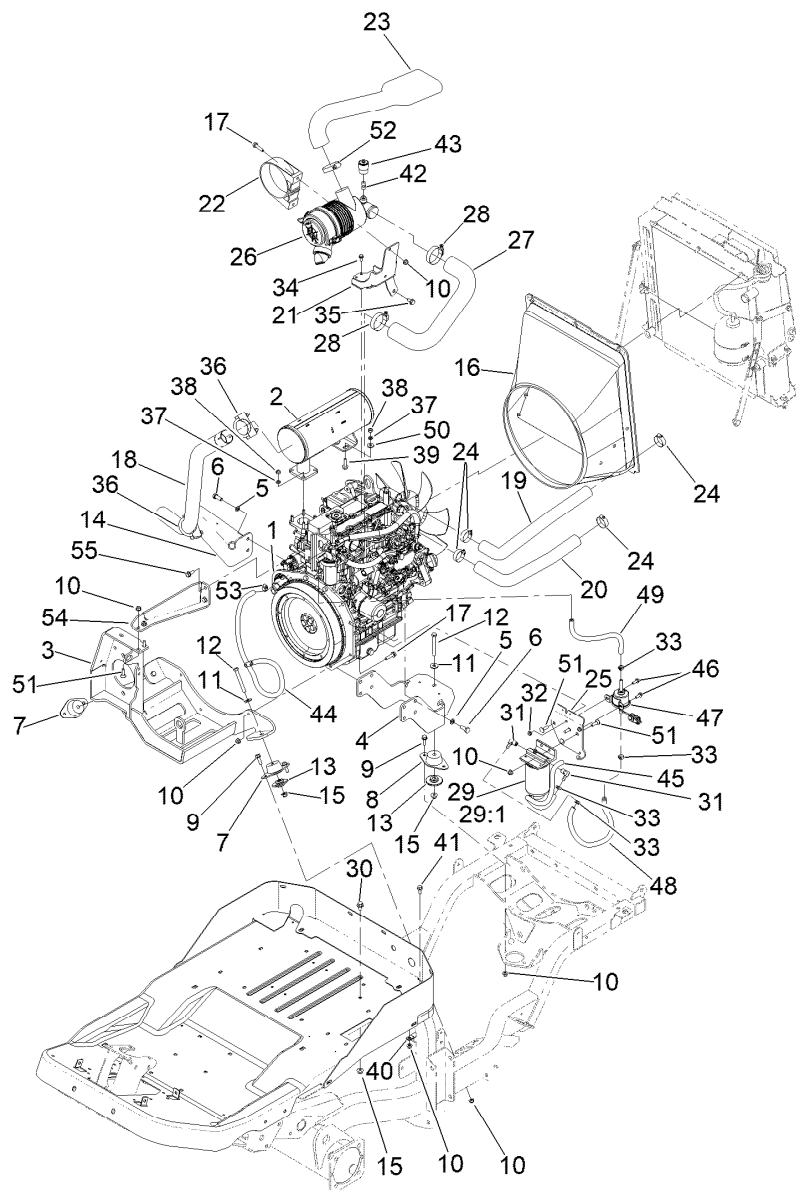
● Not illustrated



Engine, Muffler and Air Cleaner Assembly

Ref.	Part Number	Qty.	Description
1	139-6182	1	Engine-Yanmar 3Tnv80F-Nxdtr
2	139-6269	1	Muffler ASM
3	145-5951-0P	1	Bracket-Pump Mount ASM [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	2	Mount-Engine
8	125-5244	1	Mount-Engine
9	3234-29	6	Screw-HHF
10	104-8300	19	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

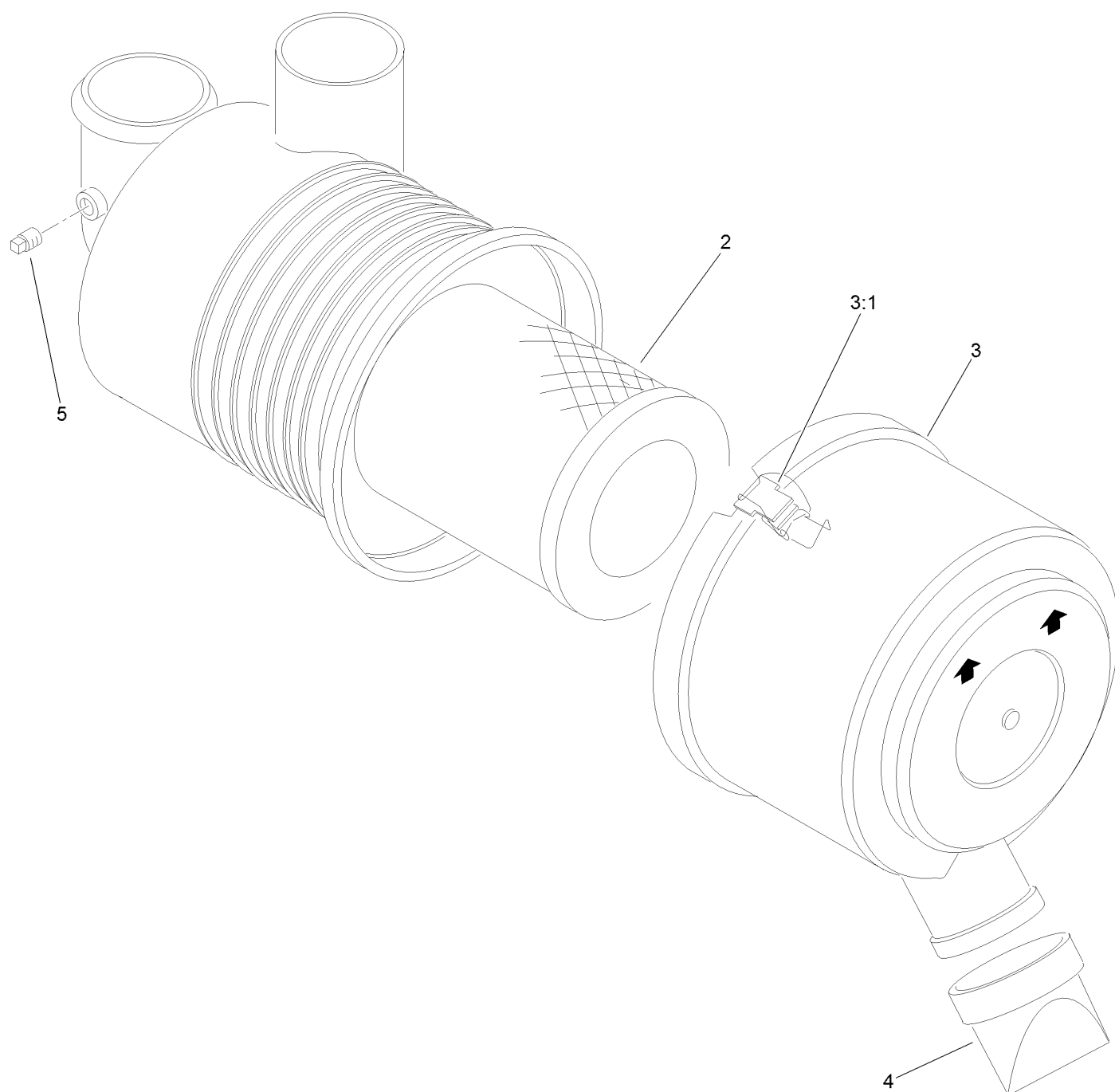
Ref.	Part Number	Qty.	Description
19	138-4493	1	Hose-Radiator, Upper
20	138-4494	1	Hose-Radiator, Lower
21	138-4486-0P	1	Bracket-Air Cleaner [primed]
22	95-5806	1	Bracket-Mounting, Air Cleaner
23	138-4460	1	Hose-Intake, Air Cleaner
24	2412-34	4	Clamp-Hose
25	138-4472-0P	1	Angle-Filter Mount
26	93-2190	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	4	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, Muffler and Air Cleaner 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>
38	33014-00	6	Nut-Hex	47	121-5613	1	Pump-Fuel, Electric
39	33104-030	2	Screw-HHF	48	110-4101	1	Hose-Fuel
40	120-1959	1	Clamp	49	110-4104	1	Hose-Fuel
41	3234-47	1	Screw-HHF	50	88-7200	2	Washer-Flat
42	94-1416	1	Adapter-Indicator	51	3230-2	6	Bolt-CARR
43	93-9164	1	Indicator-Mini	52	2412-130	1	Clamp-Hose
44	132-7563	1	Hose-Fuel	53	2412-108	2	Clamp-Worm
45	110-4112	1	Hose-Fuel	54	145-5958-0P	1	Strap-Pump Mount [primed]
46	3234-4	2	Screw-HHF	55	33104-020	2	Screw-HHF

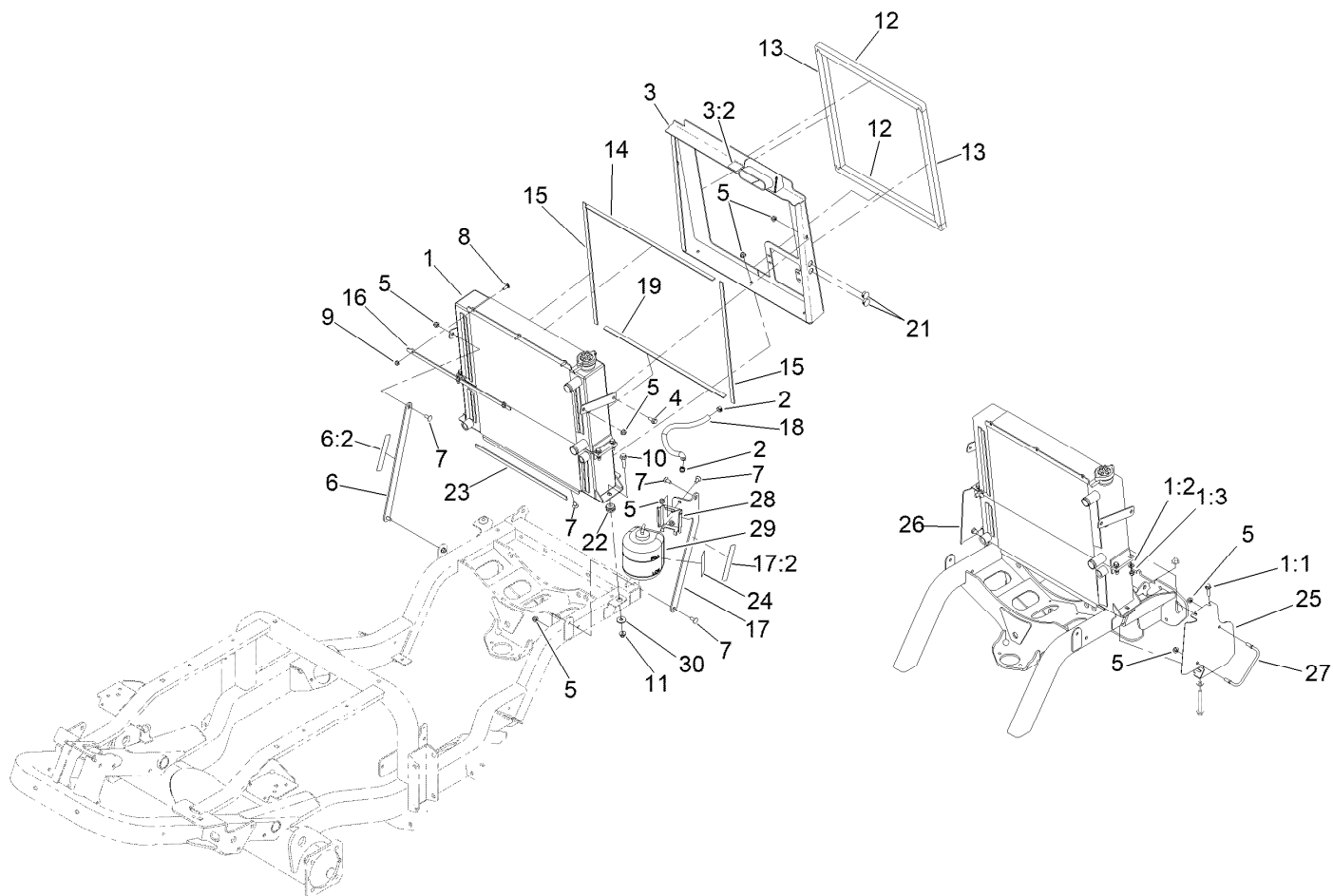
Air Cleaner Assembly No. 93-2190



Air Cleaner Assembly No. 93-2190 (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
2	108-3811	1	Filter-Air V-Twin HD
3	94-3652	1	Cover ASM
3:1	1-643283	2	Latch-Cleaner, Air

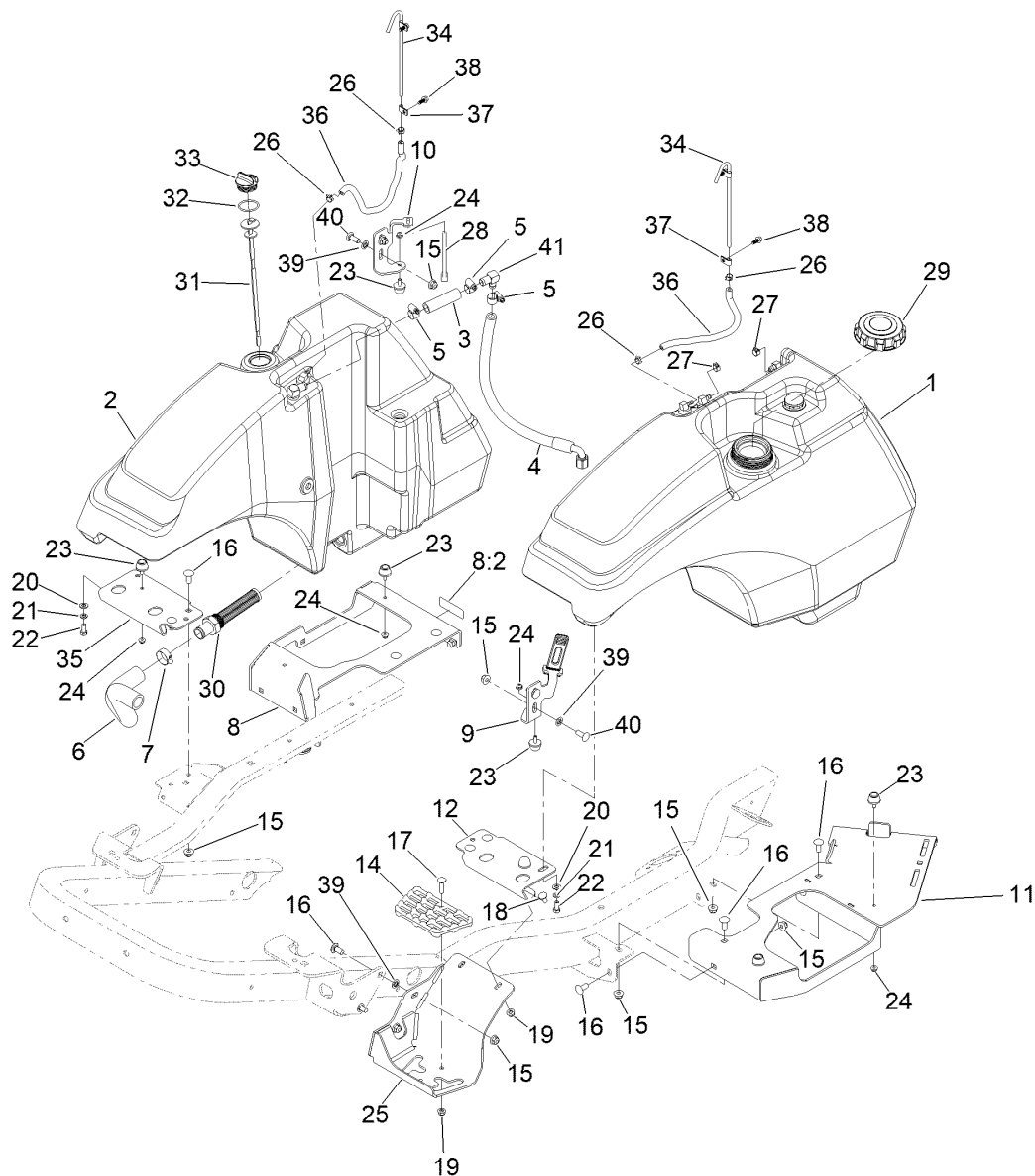
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	87-9400	1	Valve-Vacuator
5	285-17	1	Plug-Pipe



Radiator and Cooler Assembly

Ref.	Part Number	Qty.	Description
1	147-0062	1	Radiator/Oil Cooler ASM
1:1	119-4036	4	Screw-HHF
1:2	3256-23	4	Washer-Plain
1:3	137-3093	4	Nut-Hex
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	15	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	114-4681	2	Screw-HHF
11	104-8301	2	Nut-HF, NI
12	138-4410	2	Seal-Foam
13	138-4411	2	Seal-Foam

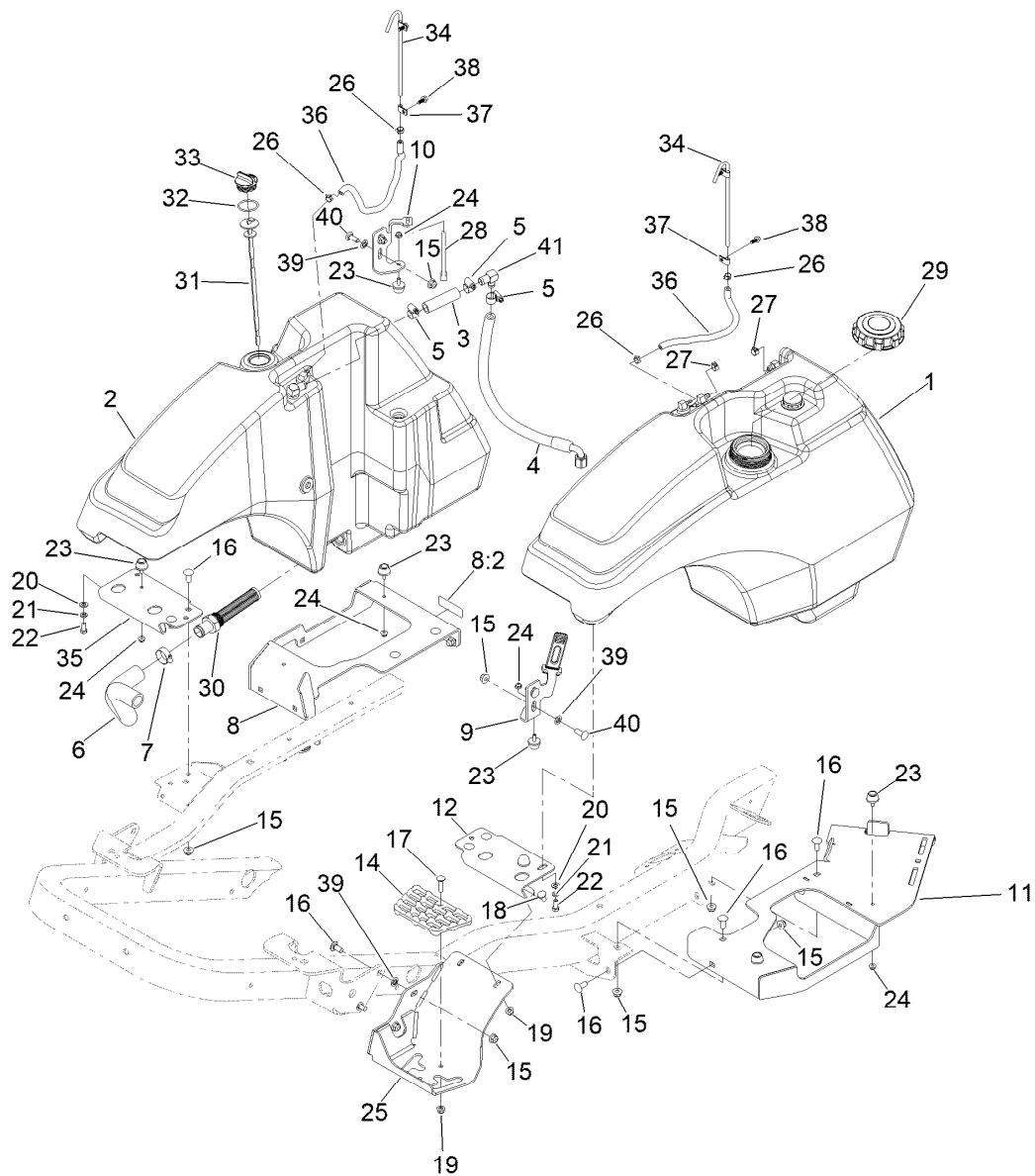
Ref.	Part Number	Qty.	Description
14	138-4453	1	Foam-Radiator
15	138-4454	2	Foam-Radiator, Side
16	138-4461-0P	1	Bracket-Shroud Retainer
17	139-6230	1	Bracket-Bottle Mount
17:2	93-7272	1	Decal-Warning
18	106-1126	1	Hose-Fuel
19	108-1393	1	Strip-Foam
21	130-8439	2	Plug-Dome
22	63-9750	2	Mount
23	130-9182	1	Foam-Radiator, Short
24	144-0472	1	Decal-Coolant Level
25	145-6059-03	1	Bracket-Cooler Shroud, LH
26	145-6061-03	1	Bracket-Cooler Shroud, RH
27	144-3905	2	Guide-Hose
28	140-7165	1	Bracket-Tank
29	140-7185RT01	1	Tank ASM
30	52-2861	2	Washer



Fuel System 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	145-5933	1	Hose ASM-Hydraulic
5	2412-119	3	Clamp-Hose
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

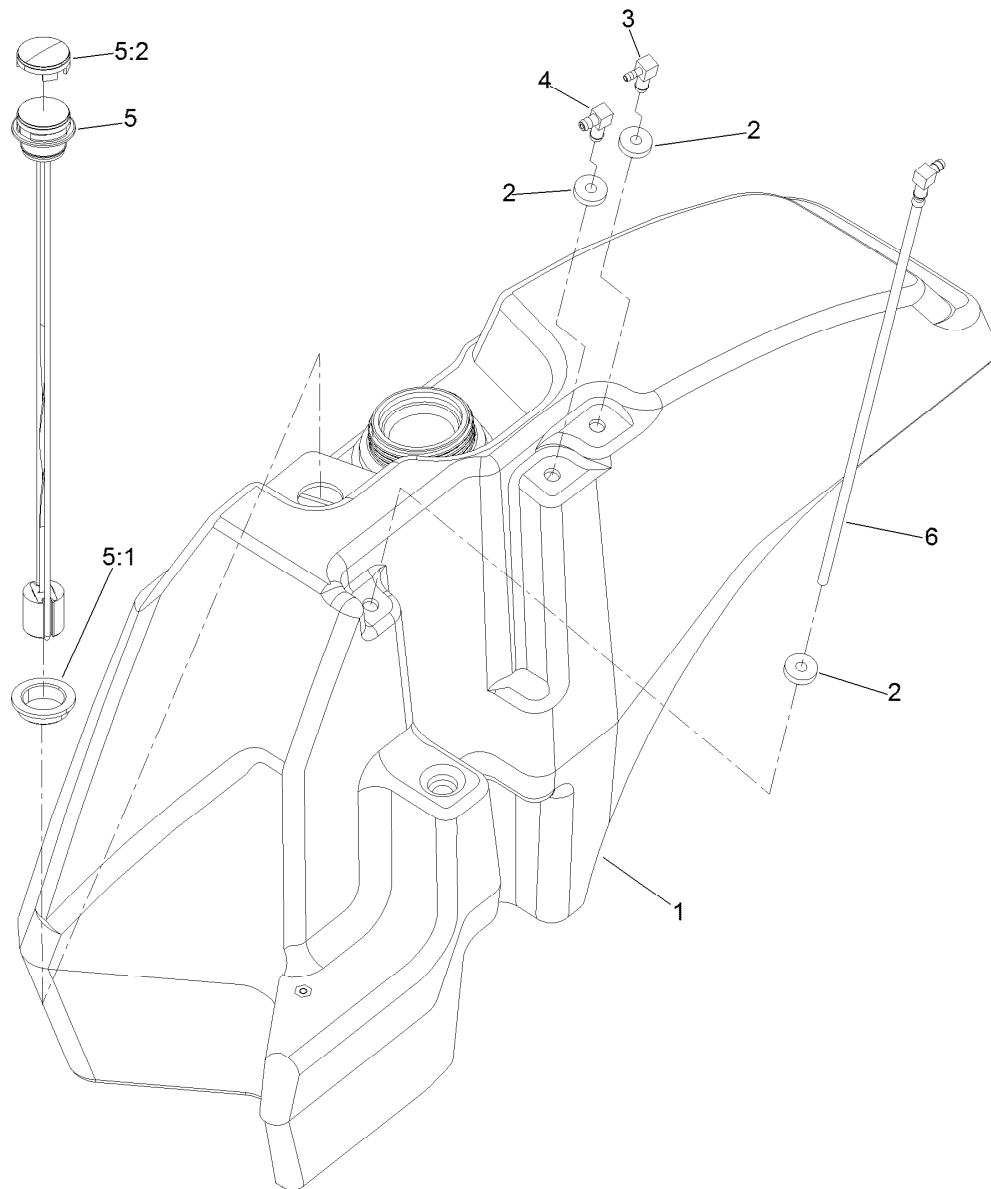
Ref.	Part Number	Qty.	Description
19	104-8300	3	Nut-HF, NI
20	3256-23	2	Washer-Plain
21	3253-4	2	Washer-Lock
22	322-3	2	Screw-HH
23	109-2365	8	Bumper-Rubber
24	104-7201	8	Nut-HF, NI
25	139-0927-01	1	Bracket-Mount, Step
26	2412-98	4	Clamp-Hose
27	92-2379	2	Clamp-Hose
28	131-8402	2	Strap-Down, Hold
29	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 System Assembly (continued)

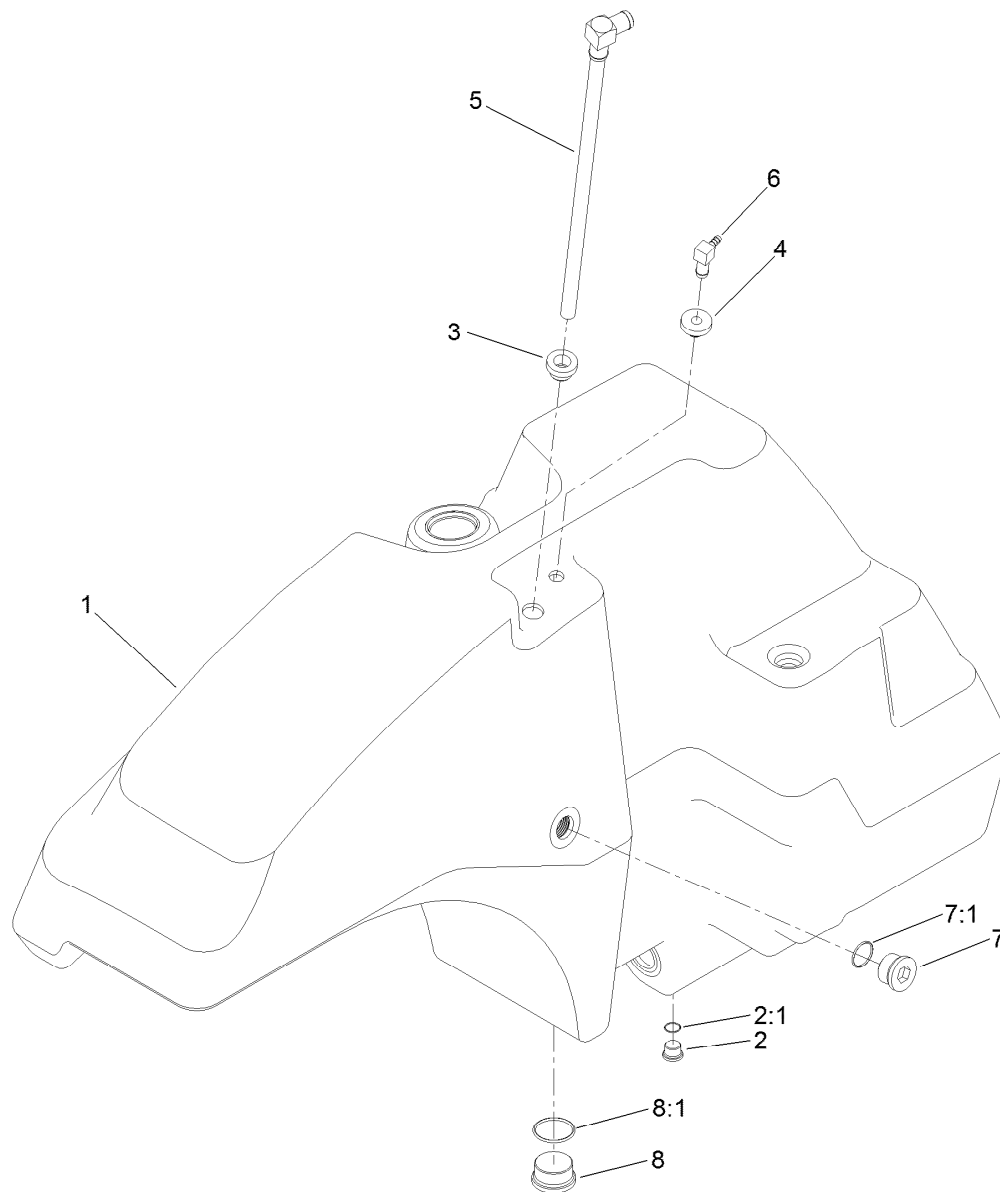
Ref.	Part Number	Qty.	Description
39	107-3154	6	Nut-Push

Ref.	Part Number	Qty.	Description
40	3231-22	4	Screw-CARR
41	117-0943	1	Fitting-Elbow



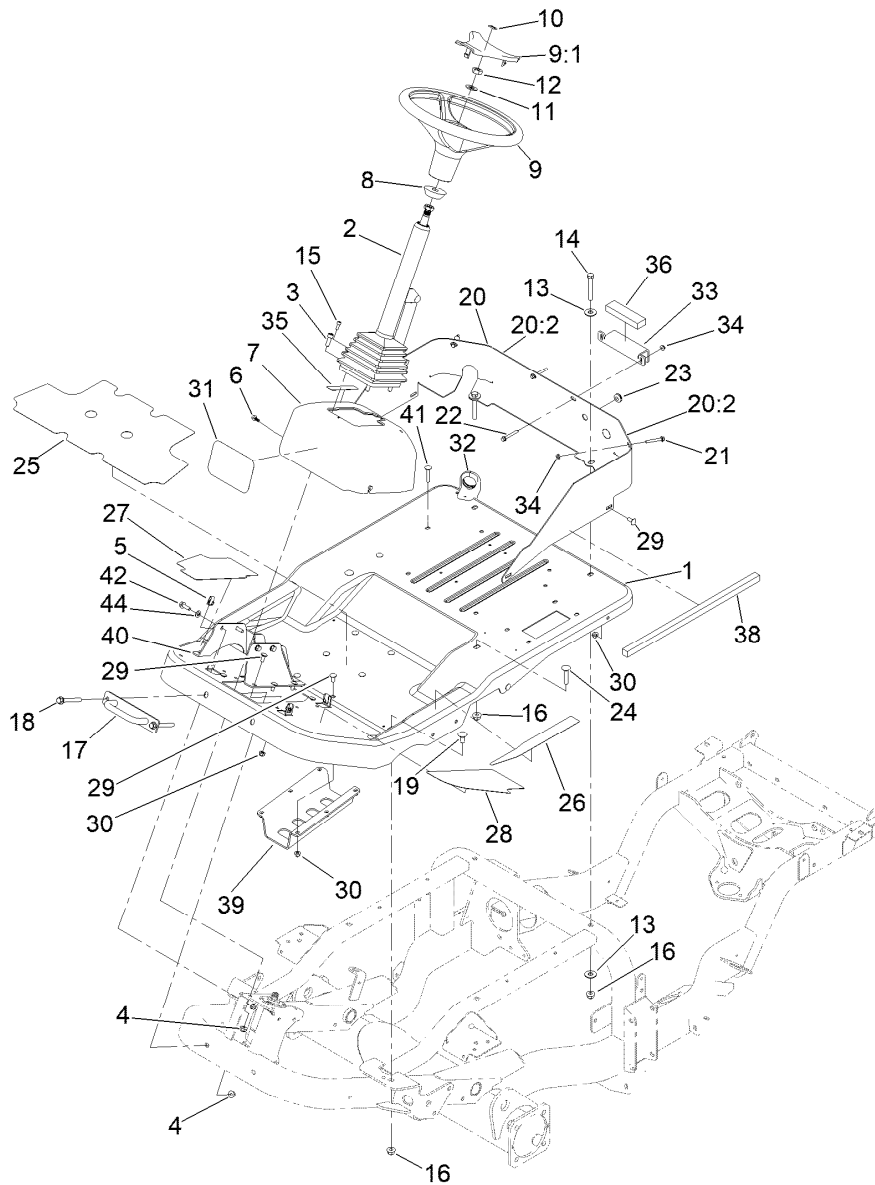
Fuel Tank Assembly No. 138-0291

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



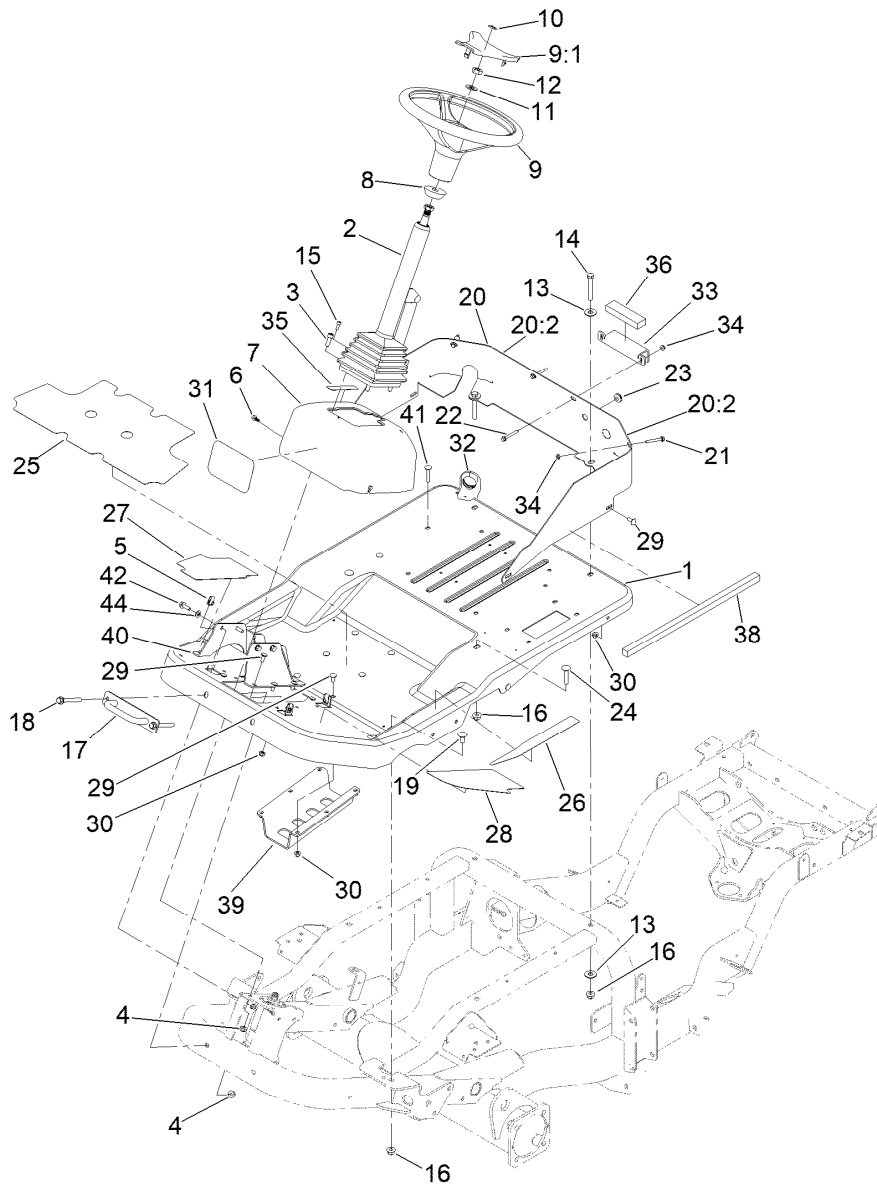
Hydraulic Tank Assembly No. 138-4418

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

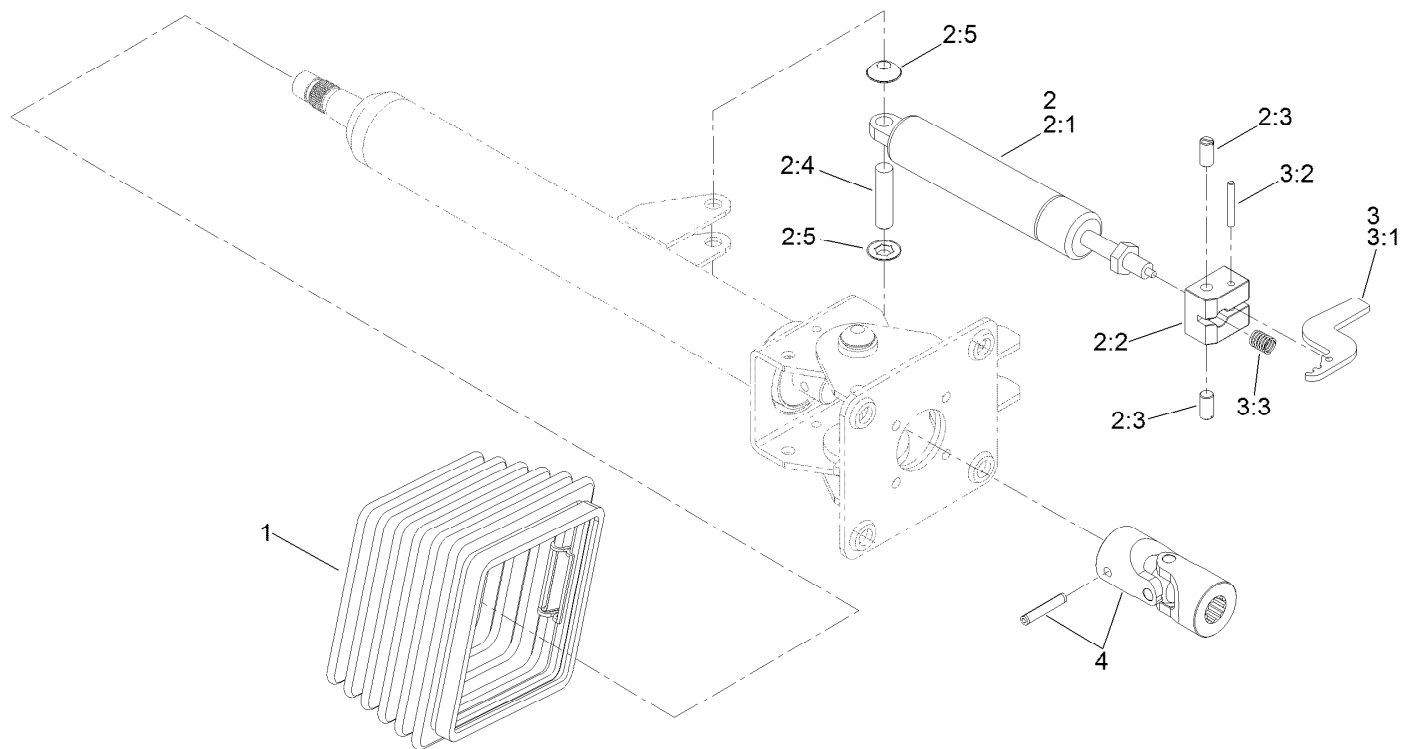
Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	144-4030SP	1	Platform-Stamped	20:2	132-1316	2	Decal-Danger, Belt
2	139-0857	1	Column-Steering, Tilt	21	125-4287	2	Screw-HHF
3	3274-7	4	Screw-HSH	22	3234-34	2	Screw-HHF
4	104-8301	6	Nut-HF, NI	23	1-633630	1	Grommet
5	107069	4	Clip	24	3232-5	2	Screw-CARR
6	99-6810	4	Screw-HHF	25	144-4029	1	Tread-Foot, Main
7	138-7494	1	Cover-Steering	26	139-0859	1	Tread-Foot, Side
8	93-5429	1	Collar-Foam	27	139-0885	1	Tread-Foot, Front RH
9	98-1471	1	Wheel-Steering	28	139-0886	1	Tread-Foot, Front LH
9:1	98-1468	1	Cover-Wheel, Steering	29	3230-23	15	Bolt-CARR
10	98-1459	1	Decal	30	104-8300	21	Nut-HF, NI
11	3256-27	1	Washer-Flat	31	105-1217	1	Decal
12	3296-33	1	Nut-Lock, NI	32	144-0473	1	Plug-Harness, Firewall
13	3256-40	4	Washer-Flat	33	139-2166-0P	1	Bracket-Hood Support
14	324-12	2	Screw-HH	34	104-7201	4	Nut-HF, NI
15	105-2409	4	Screw-HSH	35	140-1460	1	Decal-Traction Pedal
16	114-8417	6	Nut-HF, NI	36	139-6202	1	Foam-Strip
17	138-0288	1	Bracket-Down, Tie	38	139-6207	1	Foam-Strip
18	3234-41	2	Screw-HHF	39	144-3954-03	1	Guard-Tubes, Hydraulic
19	3232-1	2	Screw-CARR	40	145-5983-0P	1	Bracket-Steering Mount [primed]
20	144-0528	1	Plate-Firewall, Lower				



Platform, Steering and Console Assembly (continued)

Ref.	Part Number	Qty.	Description
41	116-0629	2	Screw-CARR

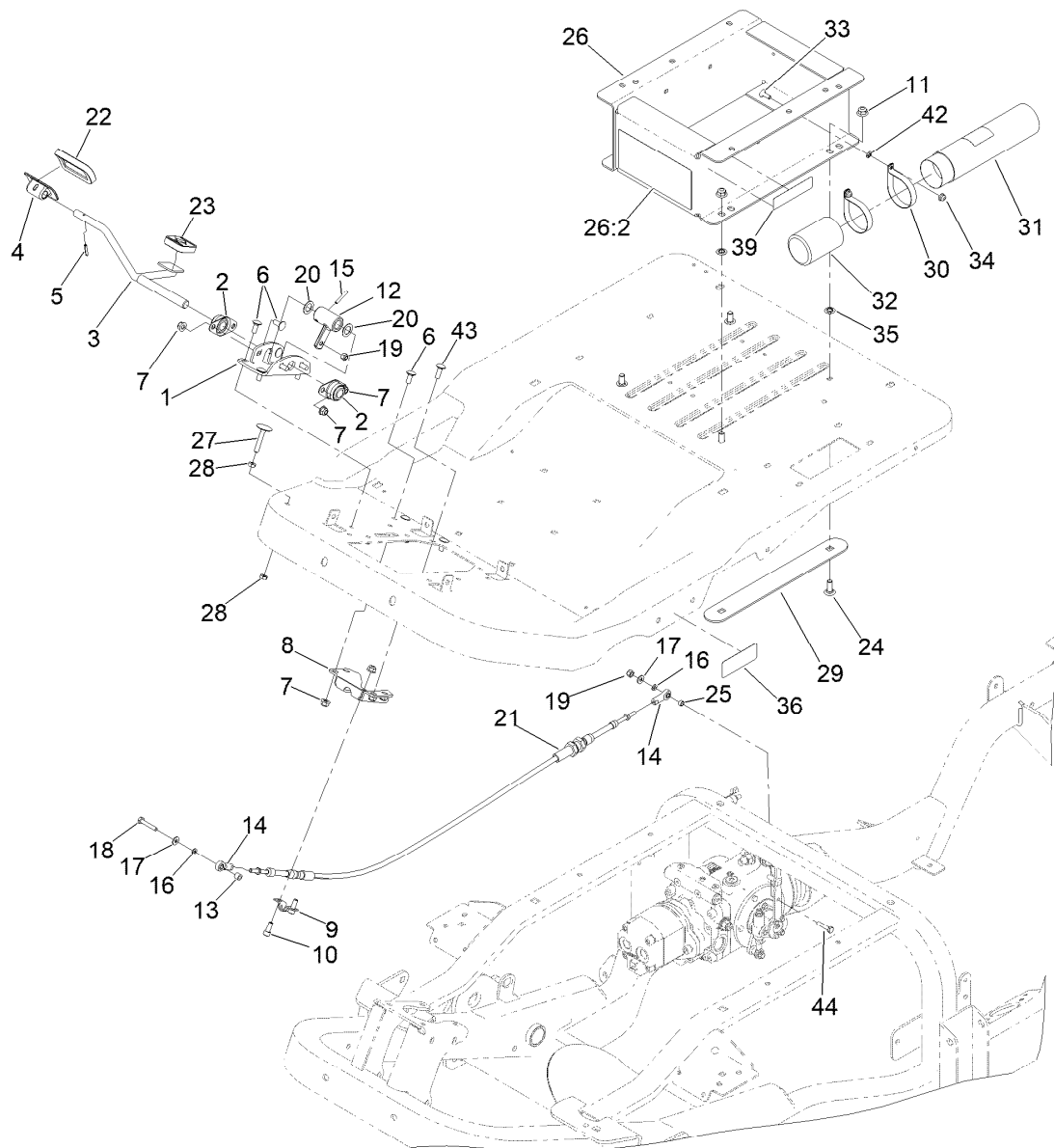
Ref.	Part Number	Qty.	Description
42	3234-29	4	Screw-HHF
44	3256-38	4	Washer-Flat



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

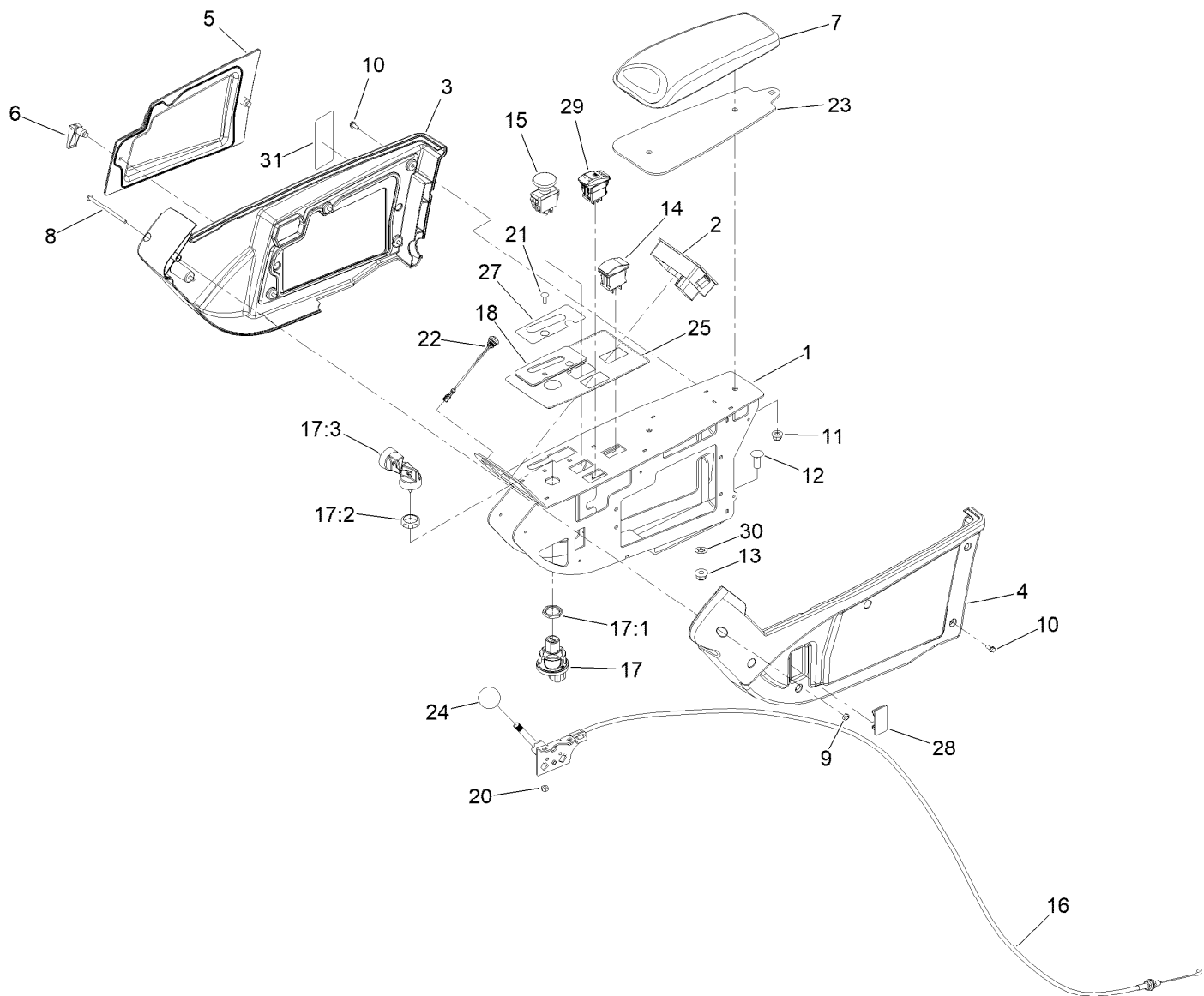
● Not serviced separately



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	11	Bolt-CARR
7	104-8300	14	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	4	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	1	Screw-HH
19	3296-42	2	Nut-Lock, NI
20	137-2601	2	Washer
21	145-6040	1	Cable-ASM, Traction

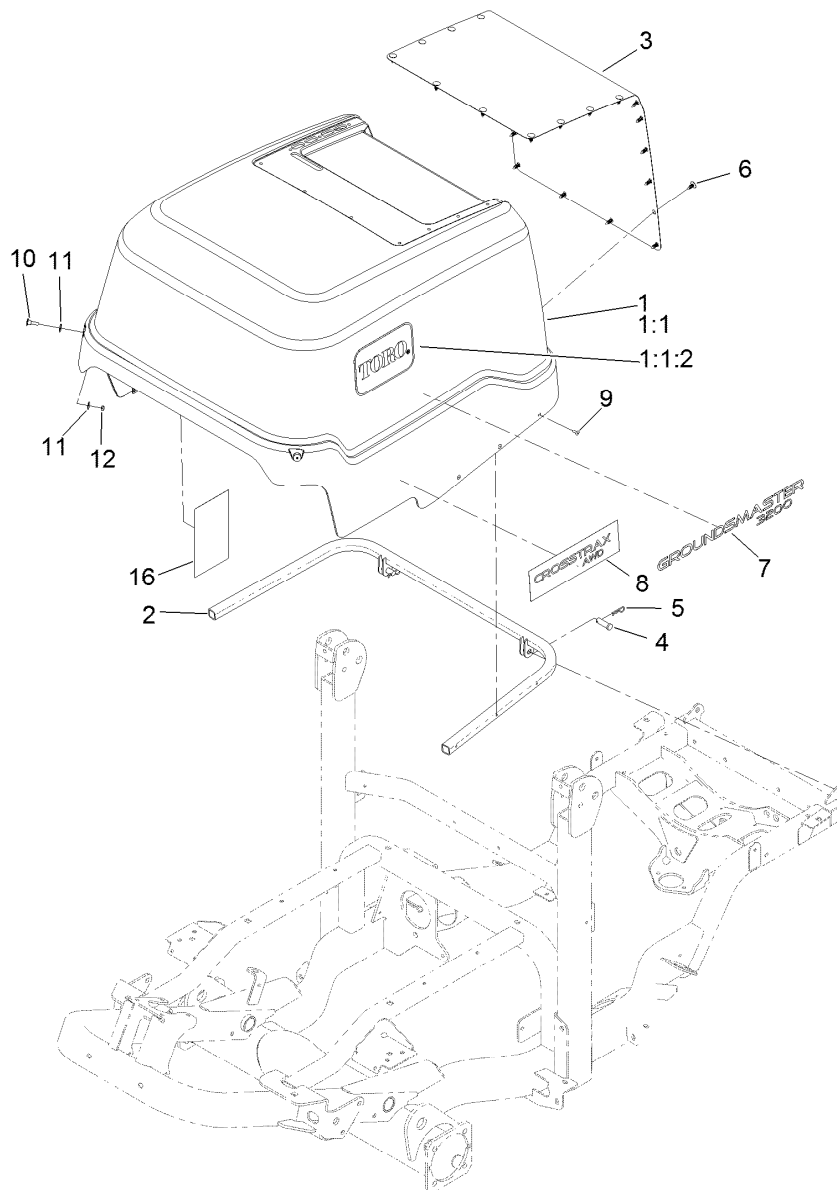
Ref.	Part Number	Qty.	Description
22	74-9100	1	Pad-Pedal, Forward
23	74-9110	1	Pad-Pedal, Reverse
24	3231-22	4	Screw-CARR
25	130-9691	1	Spacer
26	139-6221	1	Seat Box ASM
26:2	139-6215	1	Decal-Warning
27	115-8240	1	Screw-Elevator
28	3218-2	2	Nut-Hex Jam
29	138-7422-0P	2	Strip-Seat Mount
30	107-1865	2	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-Spark Arrestor
42	32115-15	2	Nut-Push
43	3230-10	1	Bolt-CARR
44	321-8	1	Screw-HH



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	Switch-Ignition
17:1	121-5160	1	Nut-Hex
17:2	122-2704	1	Nut-Face, M22 (Plastic)
17:3	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

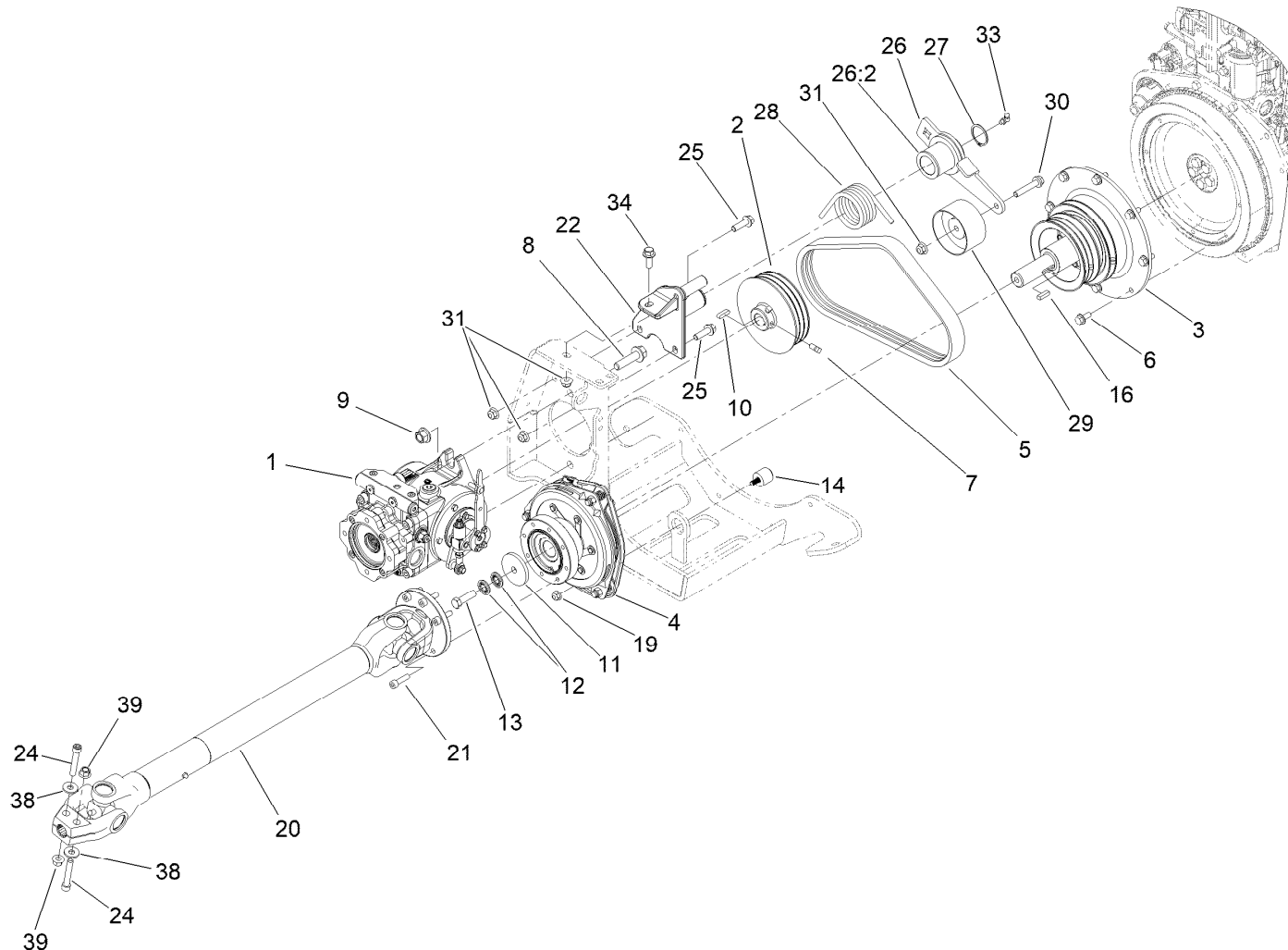


Hood Assembly

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 ●	8	110-8859	2	Decal
1:3	139-6226	1	Tape-Heat, Hood Rear ●	9	114439	10	Rivet-Blind
1:4	139-6227	1	Tape-Heat, Hood Side ●	10	139-0855	2	Screw-Countersunk, Oval
2	138-7331-03	1	Support-Hood	11	3256-2	4	Washer-Flat
3	138-7474-03	1	Screen-Cooler	12	3296-56	2	Nut-Lock, NI
4	283-68	2	Pin-Clevis	16	144-0518	1	Decal-Service, Gm3200

● Not illustrated

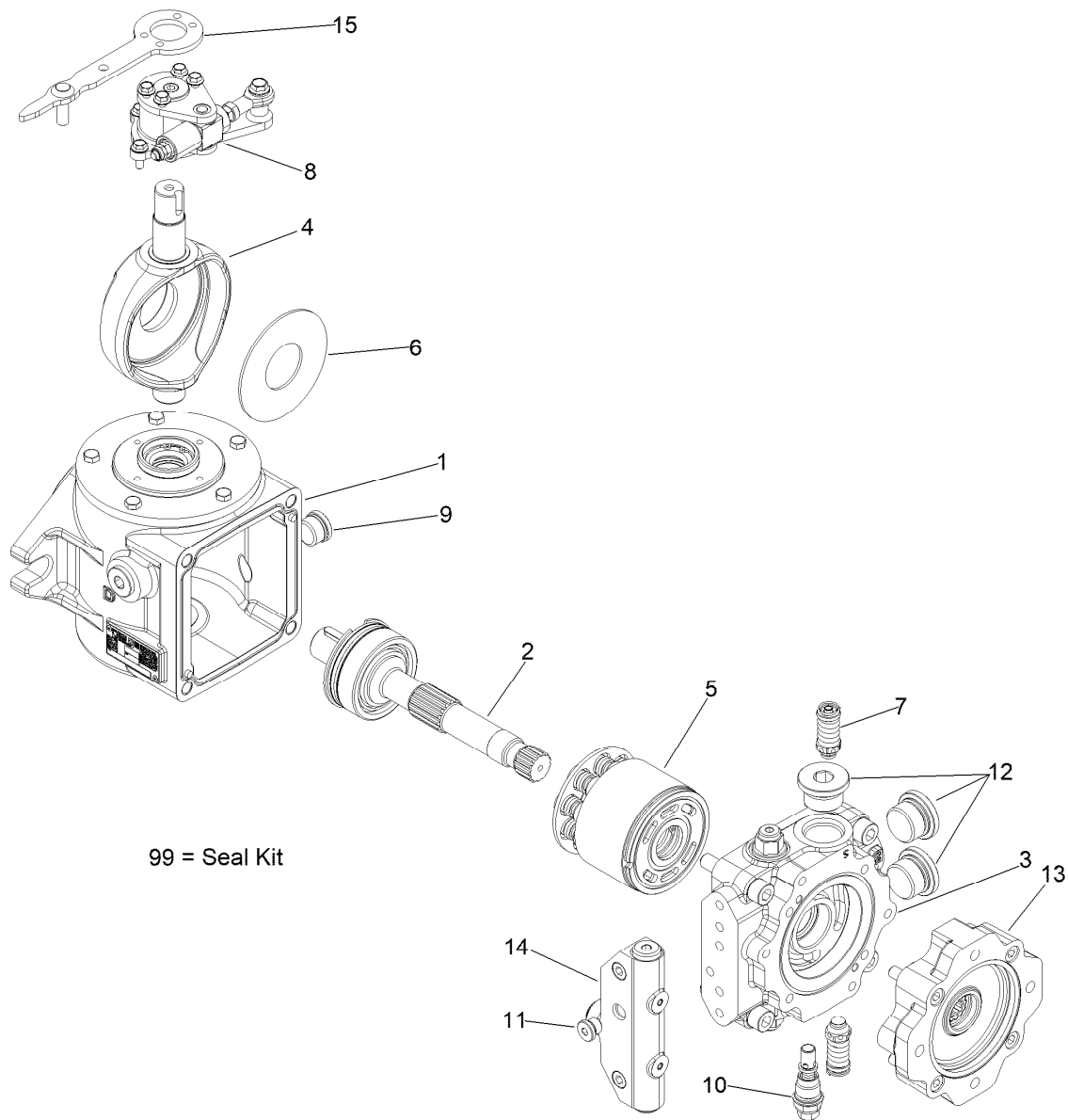
■ Not serviced separately



Pump, Driveshaft and Clutch Assembly

Ref.	Part Number	Qty.	Description
1	145-5940	1	Pump-Bondoli
2	145-6044	1	Pulley-3/3V
3	147-0050	1	Stubshaft-3/3V
4	145-5987	1	Clutch-Gt5 W/Integral Con
5	139-6259	1	Belt-3/3V
6	138-0690	8	Screw-HHF, Patch
7	1-803022	2	Screw-Set
8	133-0041	2	Screw-HF
9	99-5107	2	Nut-HF Nylock
10	94-3645	1	Key
11	139-6238	1	Washer
12	1-603610	2	Washer-Spring
13	109-9761	1	Screw-HH
14	147-0060	1	Bumper
16	10-7070	1	Key-Square
19	104-8300	2	Nut-HF, NI

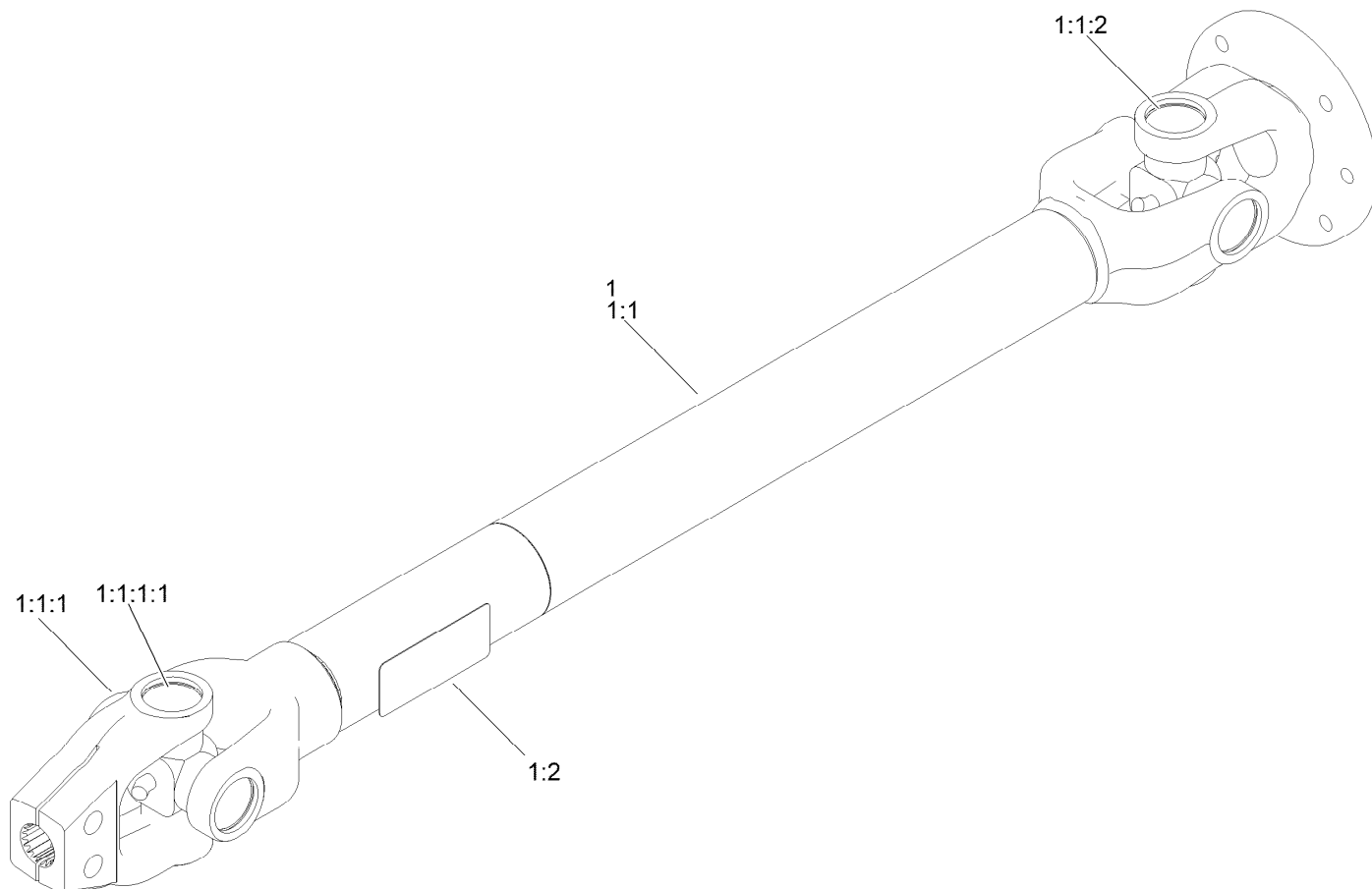
Ref.	Part Number	Qty.	Description
20	144-0521SP	1	Driveshaft ASM
21	144-0452	6	Screw-HSH, Patch
22	140-6200	1	Idler Pivot (Mach)
24	131-8591	2	Screw-HSH
25	119-4061	2	Screw-HHF
26	140-6179	1	Idler Arm ASM
26:2	93-4510	2	Bushing-Caster
27	32120-84	1	Ring-Snap, External
28	140-3102	1	Spring-Torsion
29	144-3904	1	Pulley-Tensioner
30	108-3742	1	Screw-HHF
31	104-8301	4	Nut-HF, NI
33	302-40	1	Fitting-Grease, 90 DEG
34	3234-42	1	Screw-HHF
38	80-6990	2	Washer-Hardened
39	32128-36	2	Nut-HF



Pump Assembly No. 145-5940

Ref.	Part Number	Qty.	Description
1	147-0161	1	Housing-Pump
2	147-0162	1	Shaft ASM
3	147-0163	1	Valve Body
4	147-0164	1	Plate-Swash
5	147-0165	1	Rotating Assembly
6	147-0166	1	Plate-Swash, Insert
7	147-0167	1	Valve, 250 Bar
8	147-0168	1	Spring ASM, Return

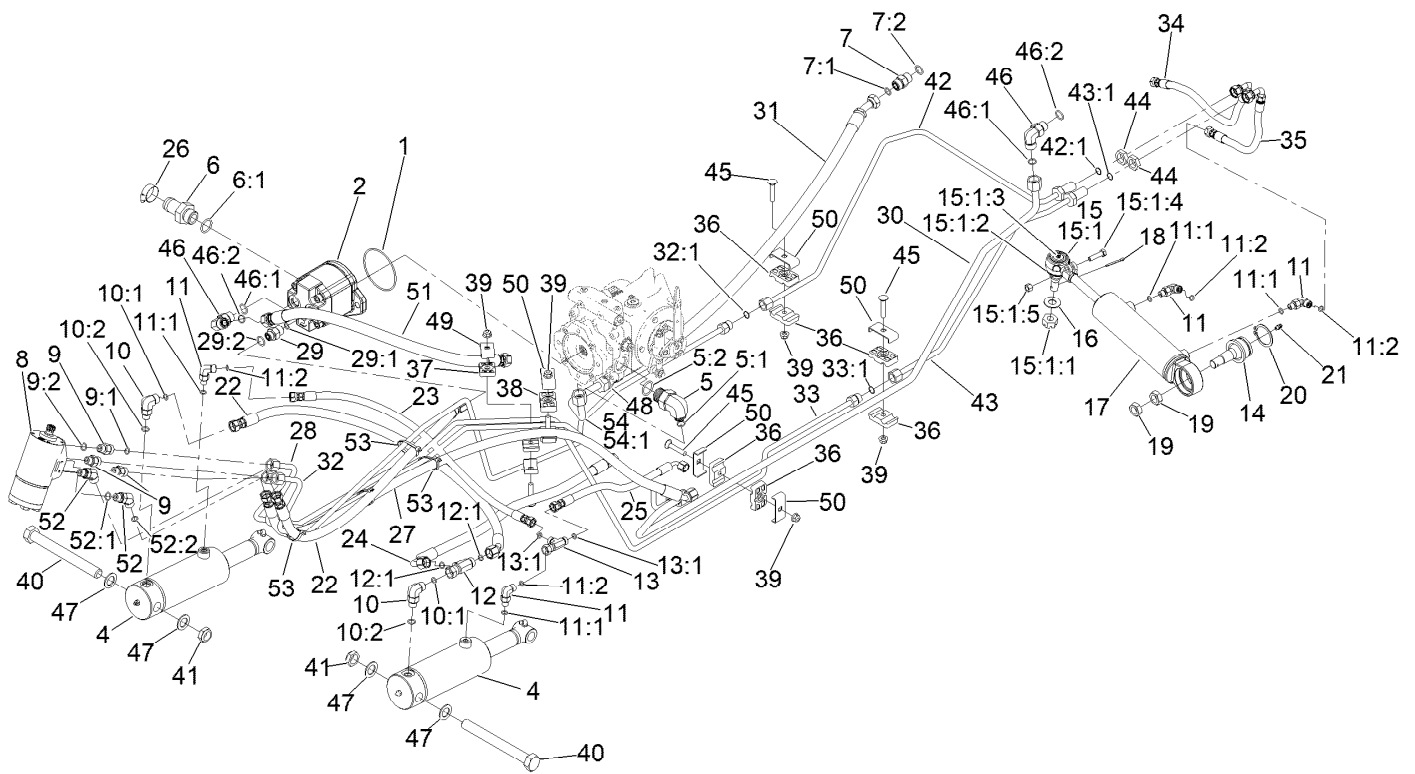
Ref.	Part Number	Qty.	Description
9	147-0169	1	Cap-Seal
10	147-0170	1	Valve-Relief 10-15 Bar
11	147-0171	1	Plug, 7/16"-20 Unf
12	147-0172	1	Plug, 1-1/16"-12 Unf
13	147-0173	1	Pump-Endcap
14	147-0174	1	Exchange Valve ASM
15	147-0175	1	Lever-Control
99	147-0176	1	Kit-Seal



Driveshaft Assembly No. 144-0521SP

Ref.	Part Number	Qty.	Description
1		1	Driveshaft ASM ●
1:1		1	Shaft-Drive, Jdl ●
1:1:1	144-0519	1	Yoke-Splined W/Cross Joint
1:1:1:1	144-0550	1	Bearing-Cross Joint
1:1:2	144-0550	1	Bearing-Cross Joint
1:2	139-6304	1	Decal-Danger, Entanglement

● Not serviced separately

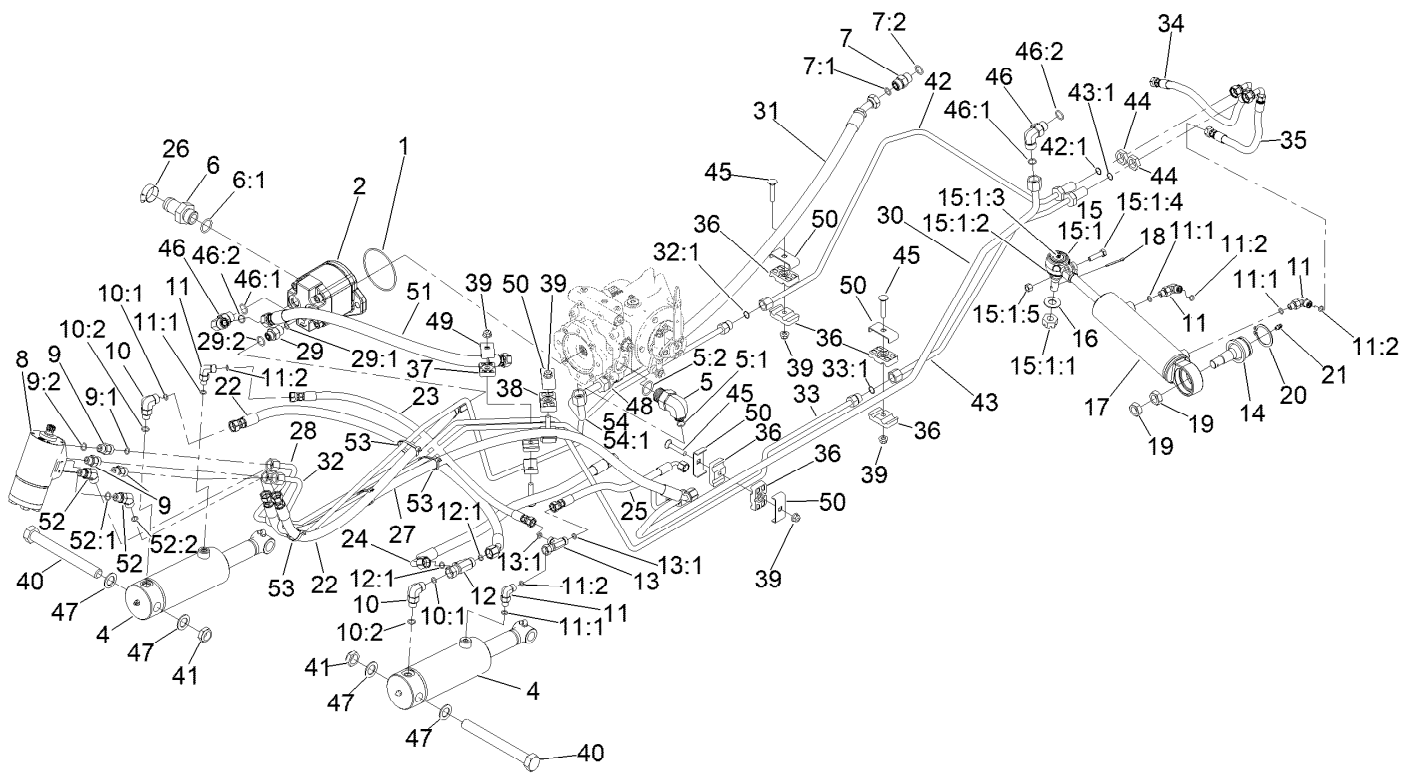


Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	237-161	1	O-Ring
2	147-5115	1	Pump-Gear
4	139-0854	2	Cylinder-Hydraulic
5	340-131	1	Fitting-HYD, 90 DEG
5:1	237-30	1	O-Ring
5:2	237-81	1	O-Ring
6	99-3017	1	Fitting
6:1	237-81	1	O-Ring
7	340-4	1	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	3	Fitting-Straight
9:1	237-22	1	O-Ring
9:2	237-42	1	O-Ring
10	340-77	2	Fitting-Elbow, 90 DEG
10:1	237-22	1	O-Ring
10:2	237-42	1	O-Ring

Ref.	Part Number	Qty.	Description
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
17	139-6277	1	Steering Cylinder
18	3272-12	1	Pin-Cotter

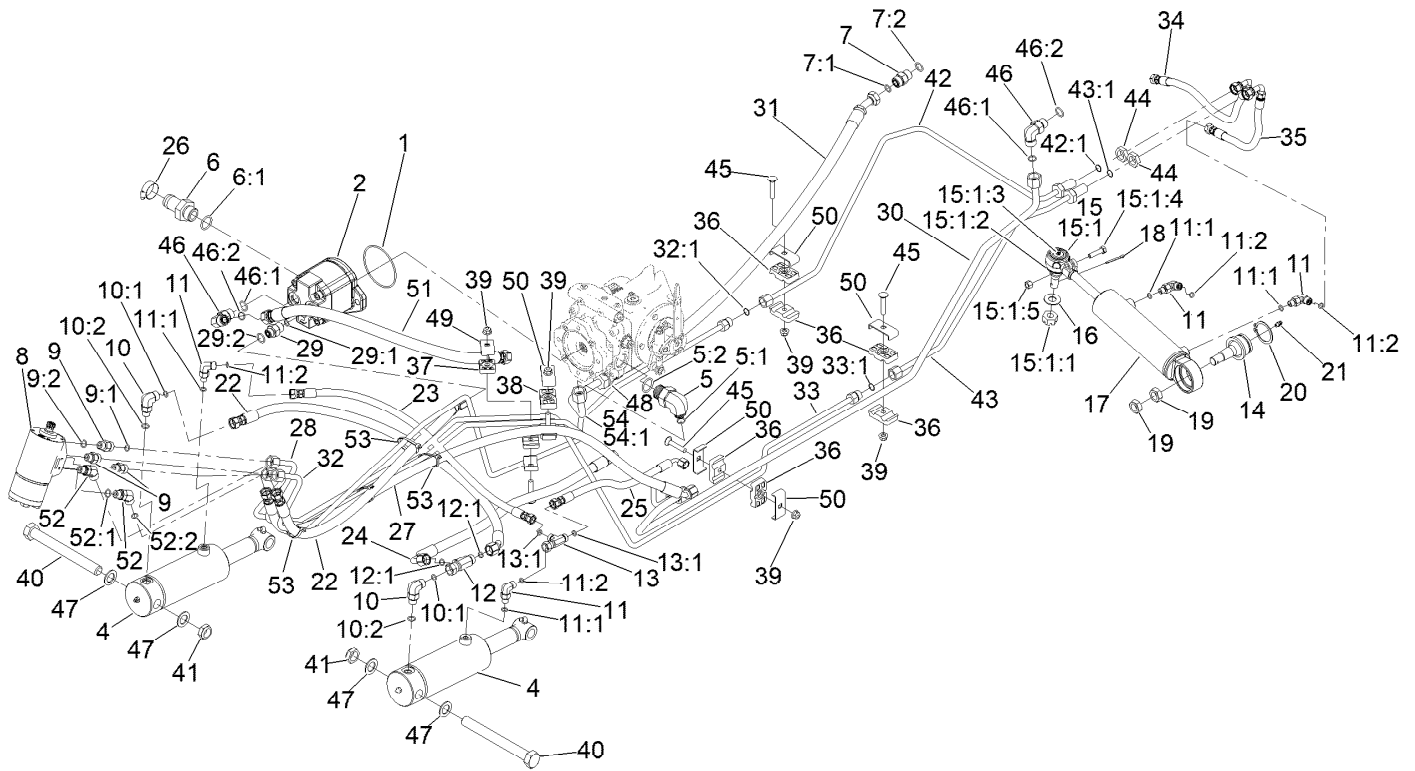
● Not serviced separately



Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
19	3220-6	2	Nut-Jam	33	145-5930	1	Hydraulic Tube ASM
20	32151-104	1	Ring-Retaining, External	33:1	237-22	1	O-Ring
21	302-5	1	Fitting-Grease	34	115-0383	1	Hose ASM
22	137-5844	2	Hose ASM	35	137-2584	1	Hose ASM
22	137-5844RT03	1	Hose ASM	36	56-7972	6	Clamp-Tube
23	137-5845	1	Hose ASM	37	56-7973	2	Clamp-Tube
24	137-5846	1	Hose ASM	38	56-7970	2	Clamp-Tube
25	137-5847	1	Hose ASM	39	104-8300	5	Nut-HF, NI
26	2412-34	1	Clamp-Hose	40	328-23	2	Screw-HH
27	140-3097	1	Hose ASM	41	HDW02059	2	Nut-Hex
28	138-0331	1	Hydraulic Tube ASM	42	138-0343	1	Hydraulic Tube ASM
29	340-3	1	Fitting-Straight	42:1	237-22	1	O-Ring
29:1	237-22	1	O-Ring	43	138-0344	1	Hydraulic Tube ASM
29:2	237-79	1	O-Ring	43:1	237-22	1	O-Ring
30	138-7448	1	Hydraulic Tube ASM	44	340-70	2	Nut-Lock
31	145-5934	1	Hose ASM-Hydraulic	45	3230-5	5	Bolt-CARR
32	145-5959	1	Hydraulic Tube ASM	46	340-98	2	Fitting-Elbow, 90 DEG
32:1	237-22	1	O-Ring	46:1	237-79	1	O-Ring

● Not serviced separately

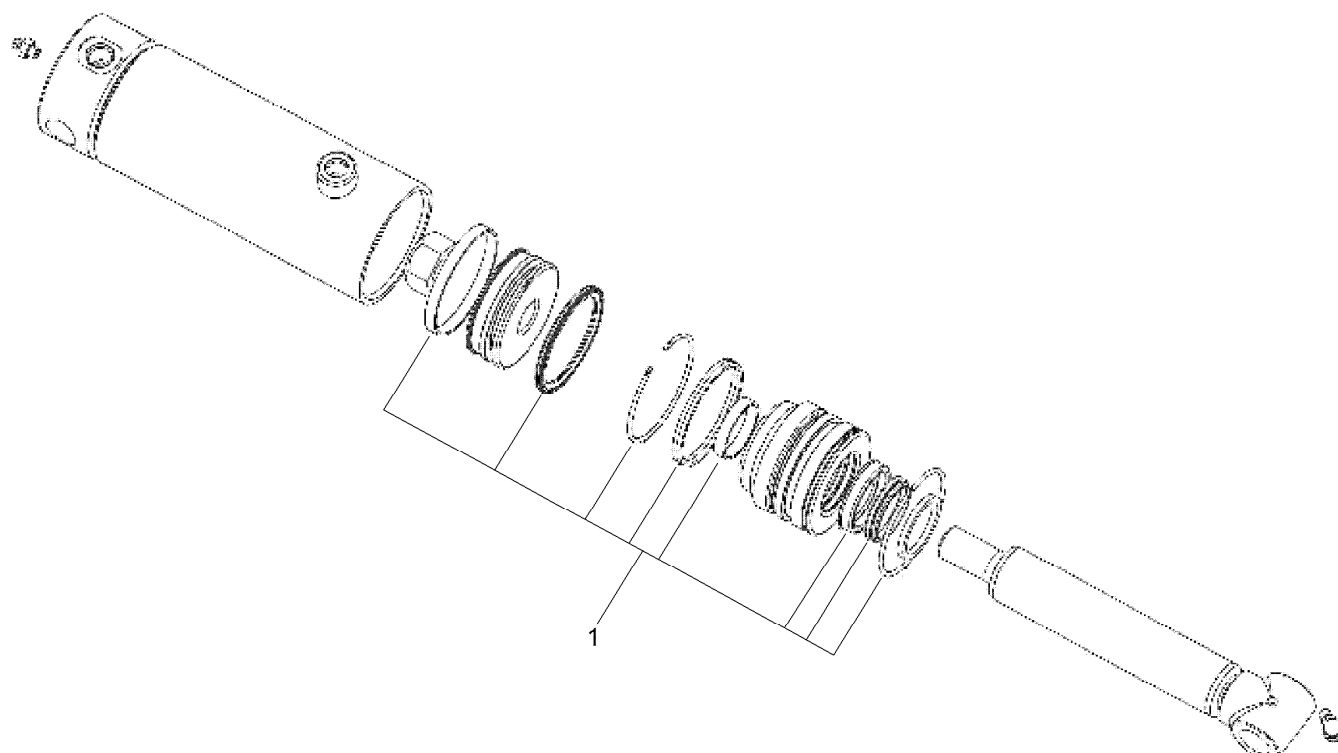


Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
46:2	237-30	1	O-Ring
47	126-7888	4	Washer-Nylon
48	340-127	1	Nut-Bulkhead
49	119-1418	2	Plate-Clamp, Short
50	119-1419	6	Plate-Clamp
51	145-5931	1	Hose ASM-Hydraulic

Ref.	Part Number	Qty.	Description
52	340-87	2	Fitting-Elbow, 45 DEG
52:1	237-22	1	O-Ring
52:2	237-42	1	O-Ring
53	3290-378	4	Tie-Cable
54	145-5945	1	Hydraulic Tube ASM
54:1	237-30	1	O-Ring

● Not serviced separately

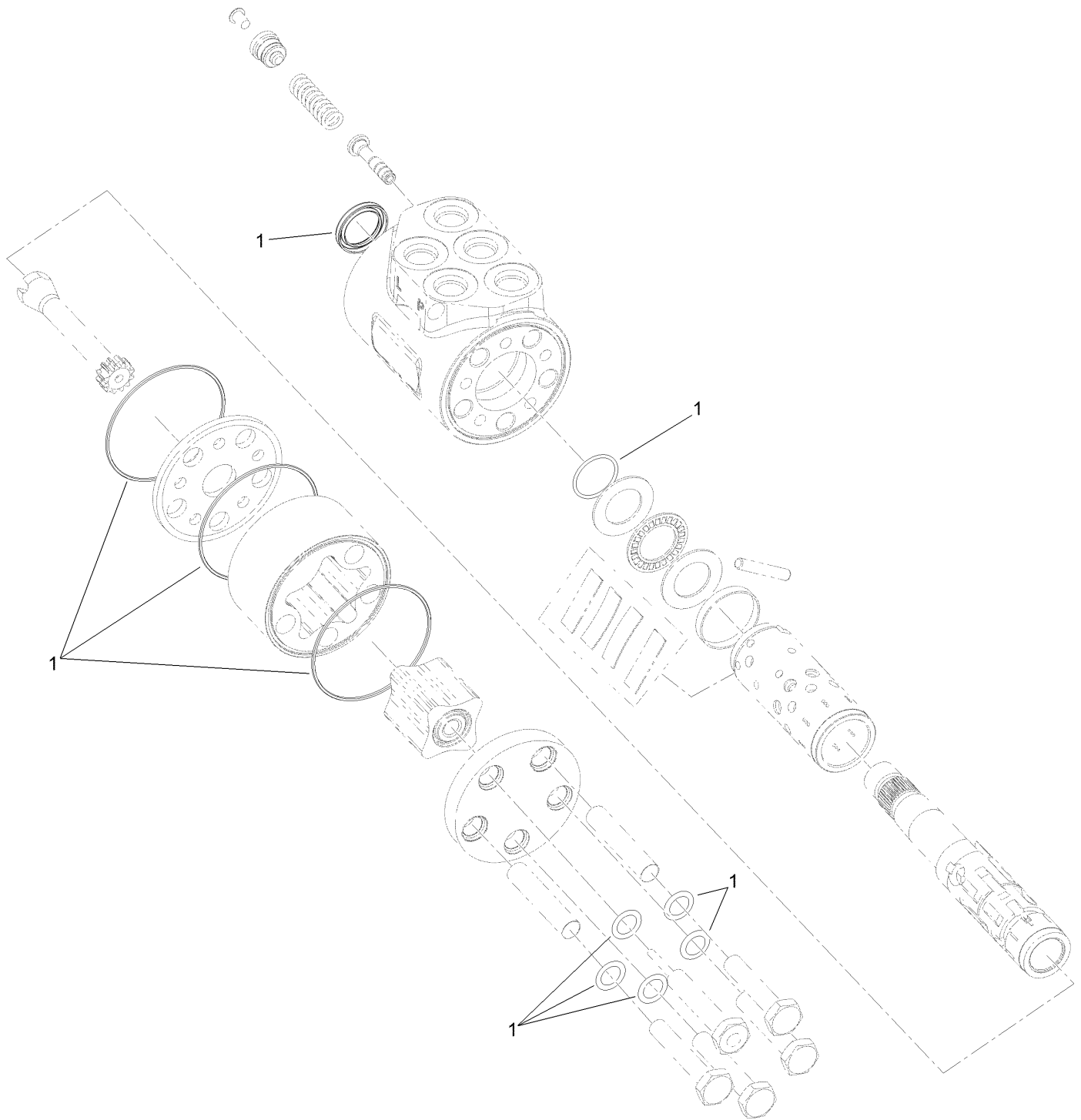


Hydraulic Cylinder No. 139-0854

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-3110	1	Kit-Seal ●

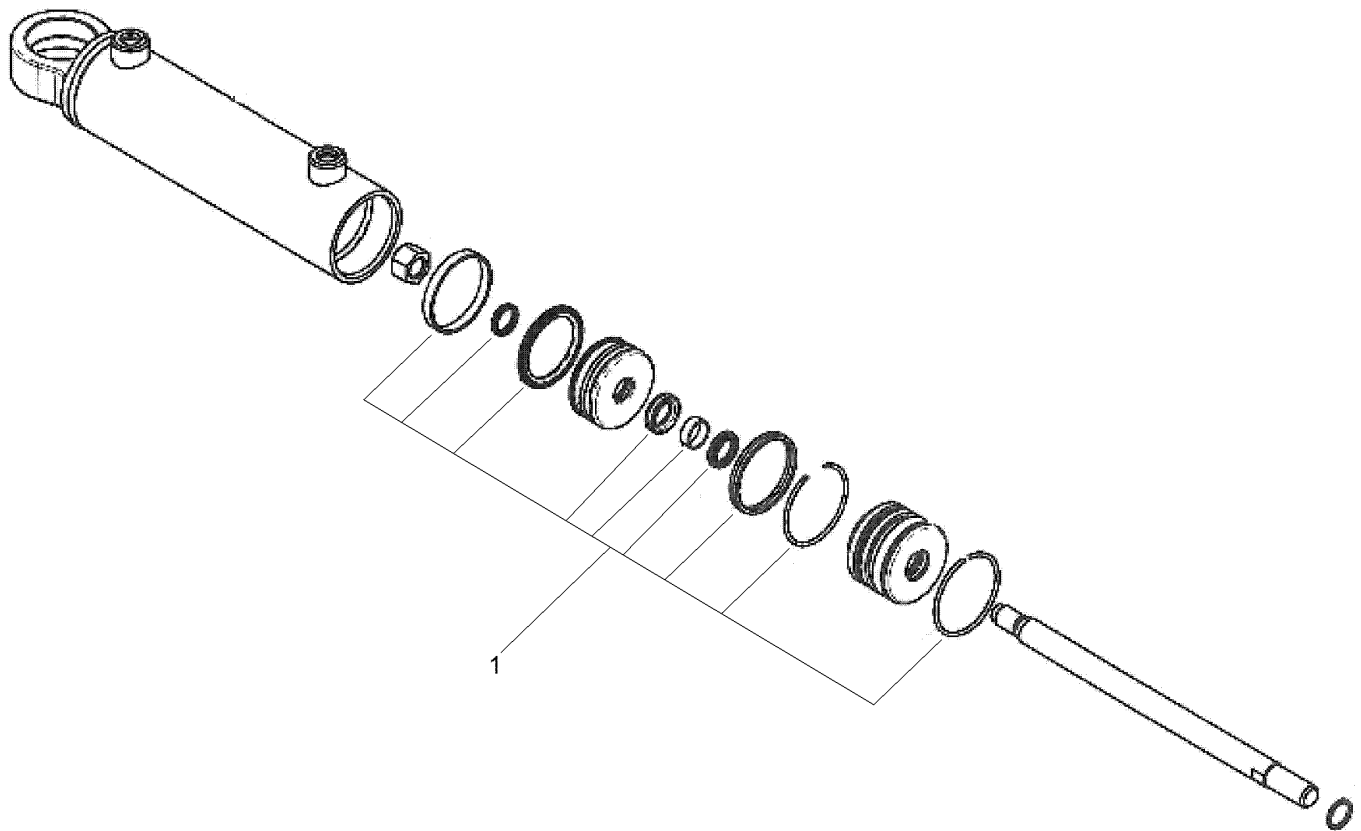
● Not illustrated

Steering Valve Assembly No. 114-8119



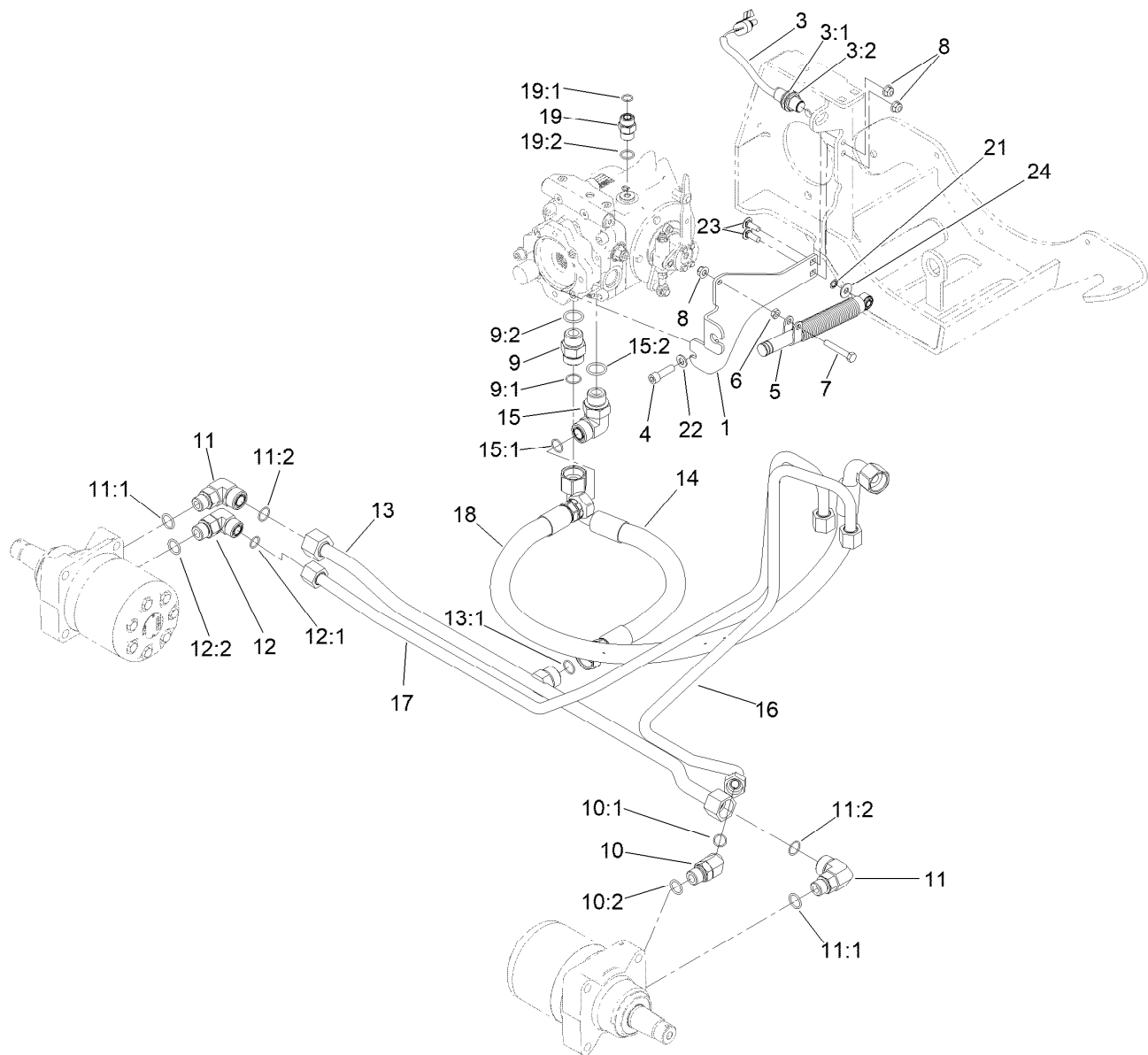
Steering Valve Assembly No. 114-8119 (continued)

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



Steering Cylinder Assembly No. 139-6277

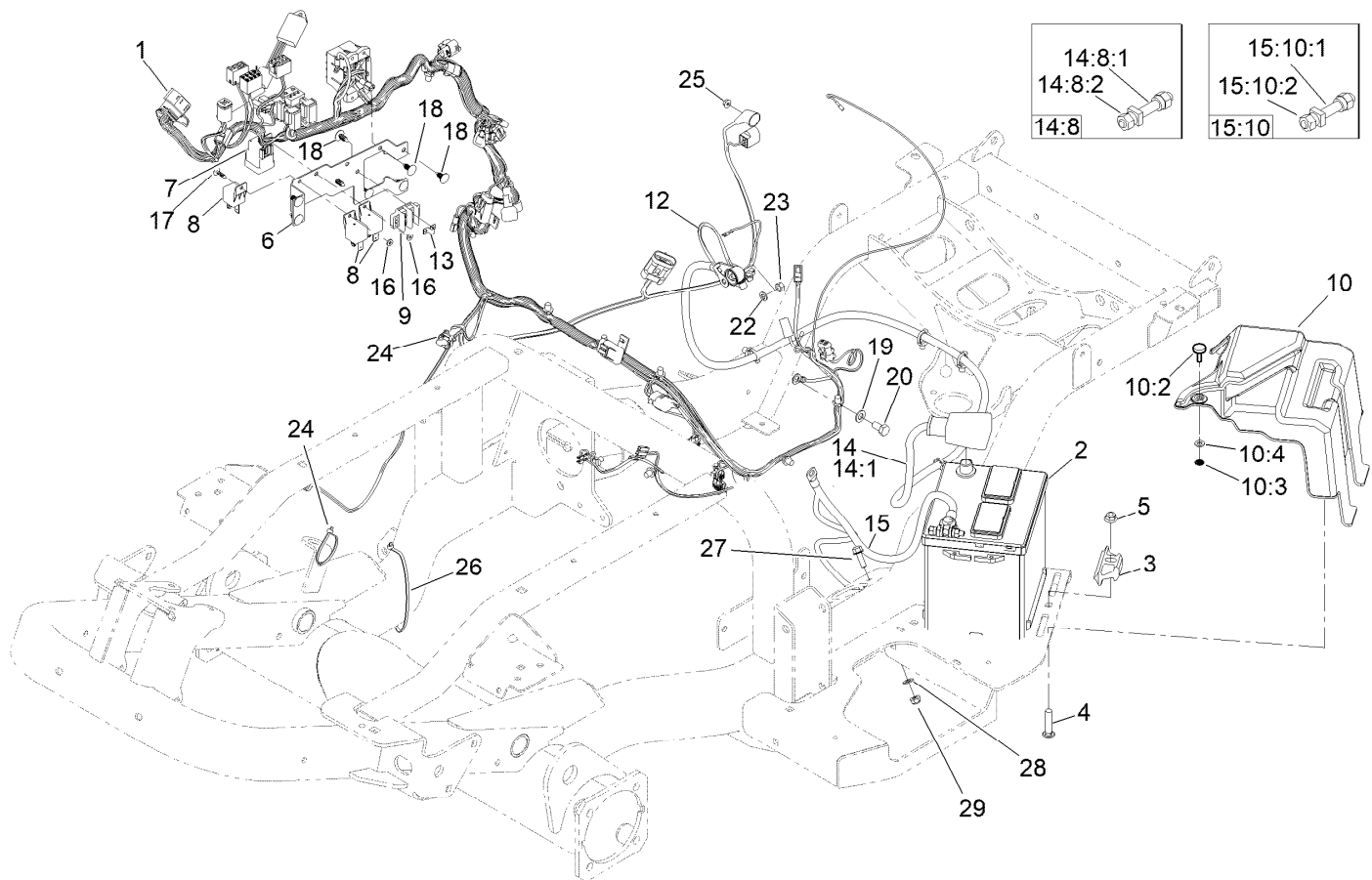
<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	131-7756	1	Cylinder Seal Kit



Hydraulic Traction Assembly

Ref.	Part Number	Qty.	Description
1	145-6065-0P	1	Plate-Cable Mount
3	115-5300	1	Proximity Switch ASM
3:1	117-3207	2	Nut-Hex
3:2	117-3208	2	Washer-Lock, Internal Tooth
4	3274-1	2	Screw-HSH
5	140-6248	1	Damper
6	3218-2	1	Nut-Hex Jam
7	322-10	1	Screw-HH
8	104-8300	3	Nut-HF, NI
9	340-9	1	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
11:1	237-80	1	O-Ring
11:2	237-58	1	O-Ring
12	340-17	1	Fitting-Elbow, 90 DEG

Ref.	Part Number	Qty.	Description
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	145-5928	1	Hose ASM-Hydraulic
15	340-142	1	Fitting-Elbow, 90 DEG
15:1	237-58	1	O-Ring
15:2	237-81	1	O-Ring
16	145-5929	1	Hydraulic Tube ASM
17	145-5923	1	Hydraulic Tube ASM
18	145-5927	1	Hose ASM-Hydraulic
19	340-4	1	Fitting-Straight
19:1	237-30	1	O-Ring
19:2	237-79	1	O-Ring
21	32151-72	1	Ring-Retaining
22	145-5964	2	Washer
23	3230-10	2	Bolt-CARR
24	HDW14535	1	Flat Washer, 5/16 Nom,ST/ST,18-8

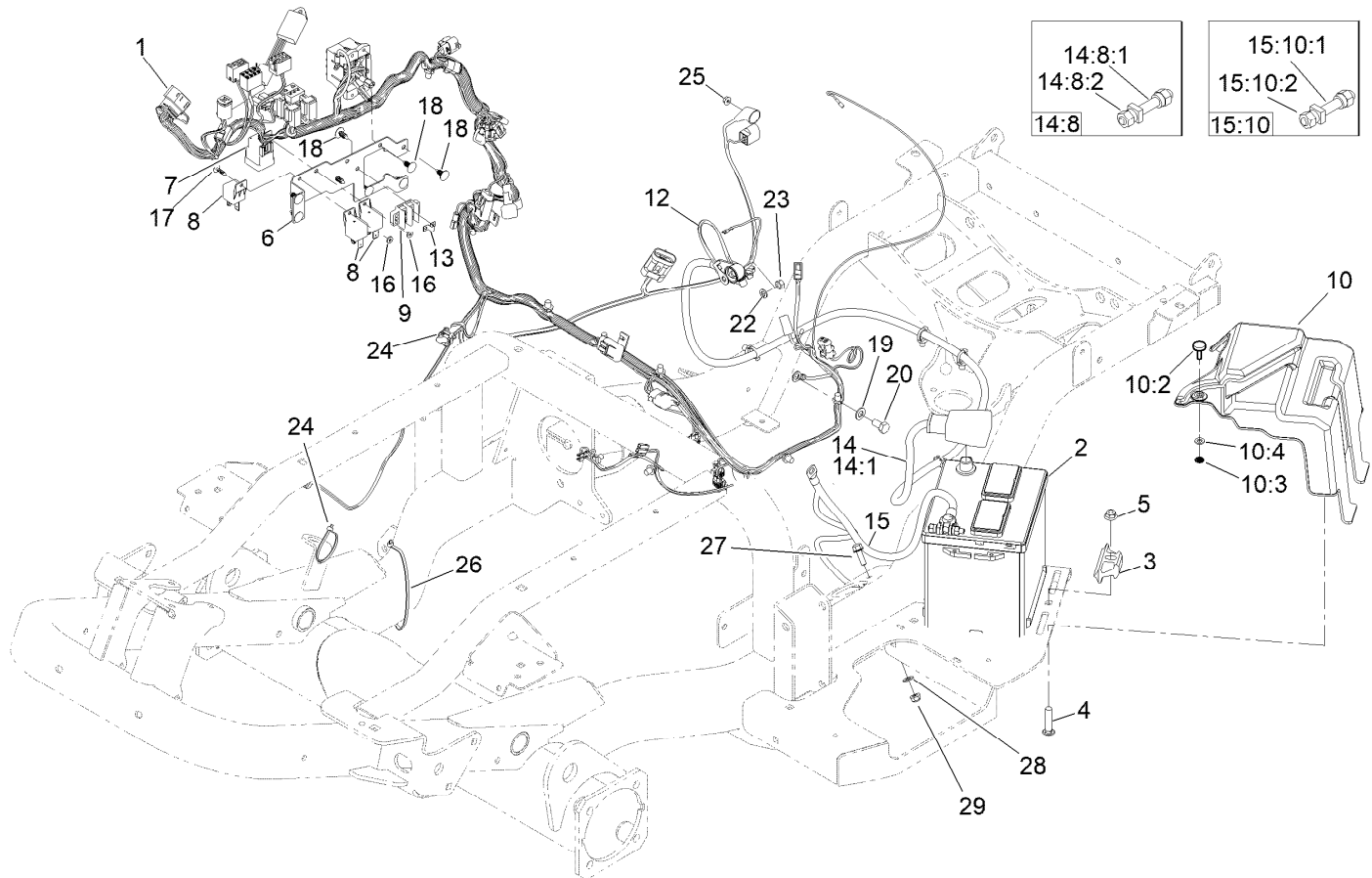


Electrical Assembly

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	122-2518	1	Harness-Wire, Main	14:8		1	Bolt ASM ●▲
2		1	Battery - Wet, 12V, 540 CCA ■▲	14:8:1	32180-107	1	Bolt-Clamp, Battery
3	138-6335	1	Retainer-Battery	14:8:2	32180-108	2	Nut-Hex Shoulder
4	3231-29	1	Screw-CARR	15	122-1276	1	Cable-Battery, Negative ASM
5	104-8301	1	Nut-HF, NI	15:10		1	Bolt ASM ●▲
6	138-7467-0P	1	Bracket-Electrical	15:10:1	32180-107	1	Bolt-Clamp, Battery
7	99-7430	1	Relay-Mini	15:10:2	32180-108	2	Nut-Hex Shoulder
8	99-7435	3	Relay	16	3256-21	2	Washer-Flat
9	42862	1	Block-Terminal, Ground	17	125-8067	2	Plug-Plastic
10	140-9010	1	Battery Cover ASM	18	117-2382	8	Plug-Plastic
10:2	140-9033	1	Knob-Stud	19	33095-00	1	Washer-Flat
10:3	32115-15	1	Nut-Push	20	33115-020	1	Screw-HH
10:4	3256-22	1	Washer-Flat	22	3253-4	1	Washer-Lock
12	99-3441	1	Harness-Wire, Fusible Link	23	33014-00	1	Nut-Hex
13	42863	1	Strip-Jumper	24	3290-378	6	Tie-Cable
14	122-1275	1	Cable-Battery, Positive ASM	25	33003-00	1	Nut-HF
14:1	32180-115	1	Panduit, Cable Tie ●	26	3290-379	1	Tie-Cable

● Not illustrated
▲ Not serviced separately

■ Obtain locally.



Electrical Assembly (continued)

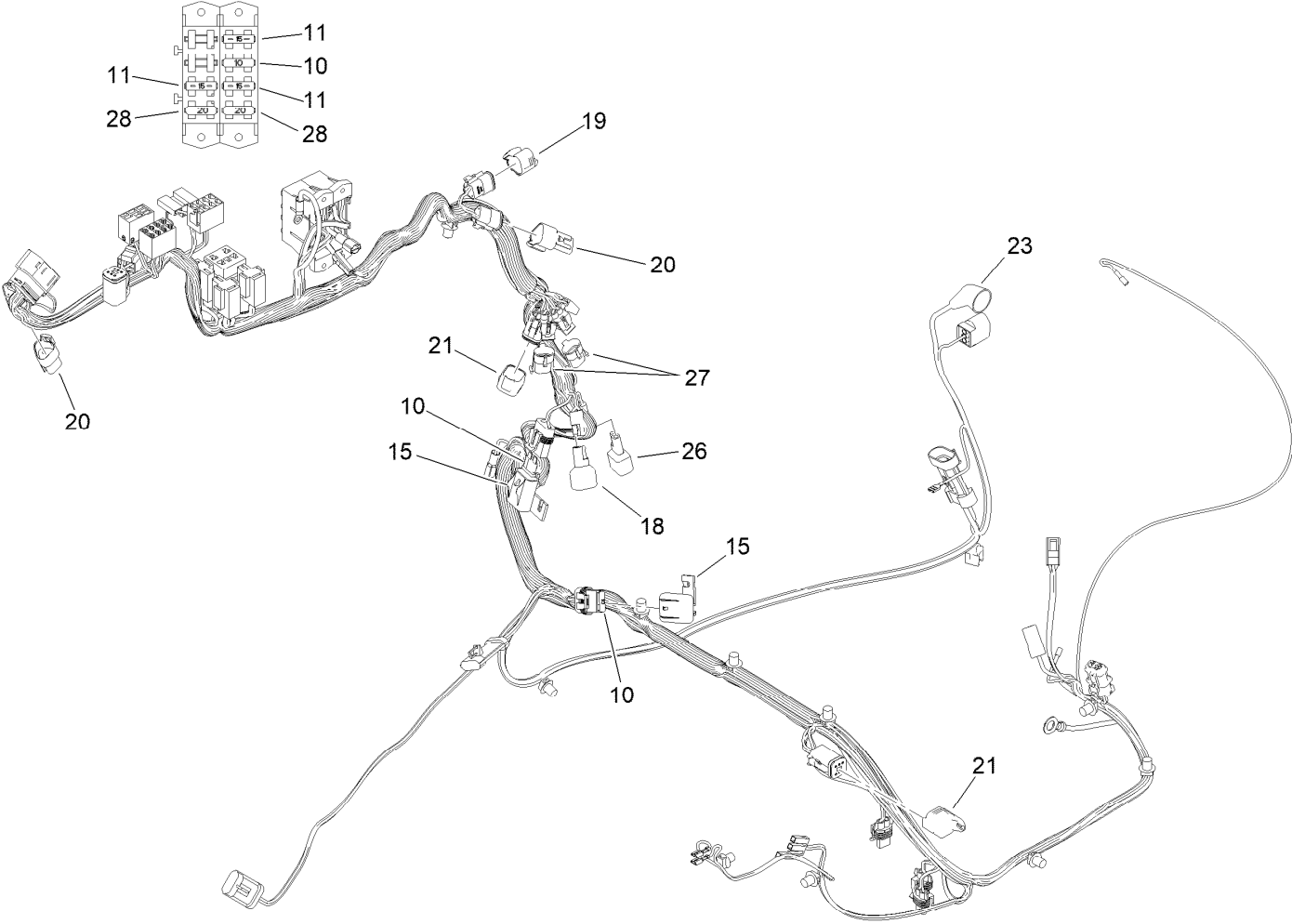
Ref.	Part Number	Qty.	Description
27	3234-29	1	Screw-HHF

Ref.	Part Number	Qty.	Description
28	120-9683	1	Washer-Plain
29	104-8300	1	Nut-HF, NI

● Not illustrated
▲ Not serviced separately

■ Obtain locally.

Wire Harness Assembly No. 122-2518

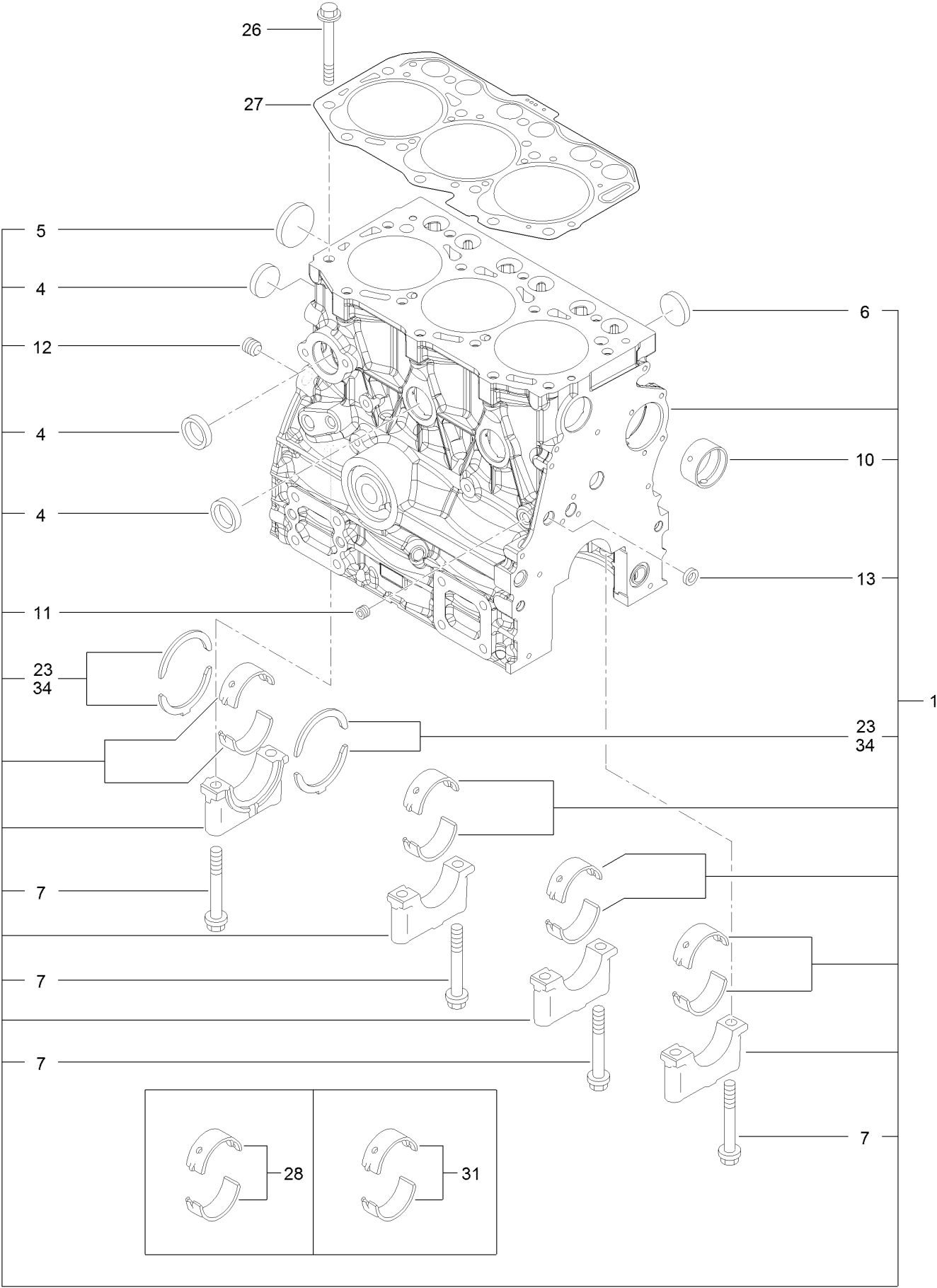


Wire Harness Assembly No. 122-2518 (continued)

<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

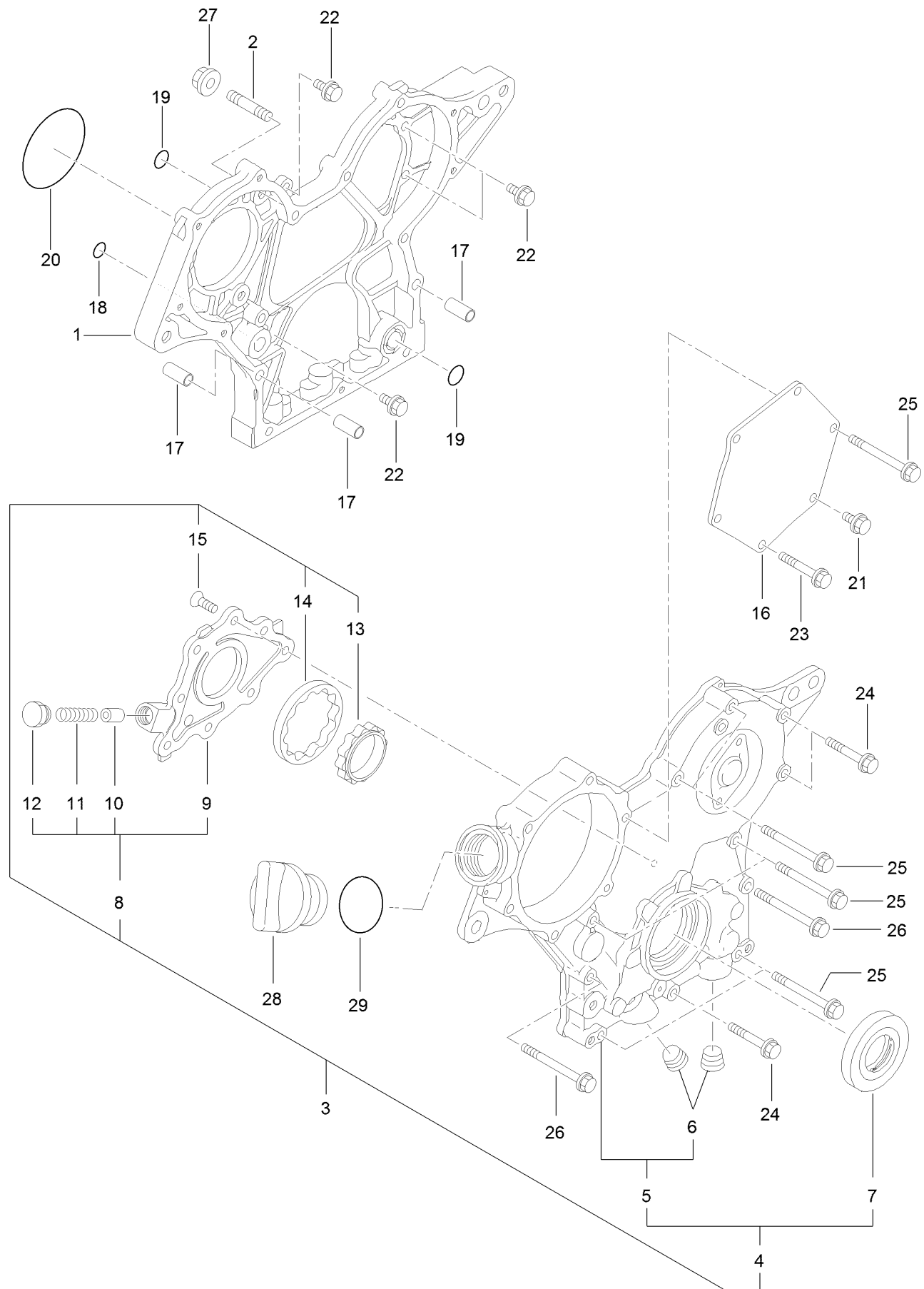
Cylinder Block Assembly



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				

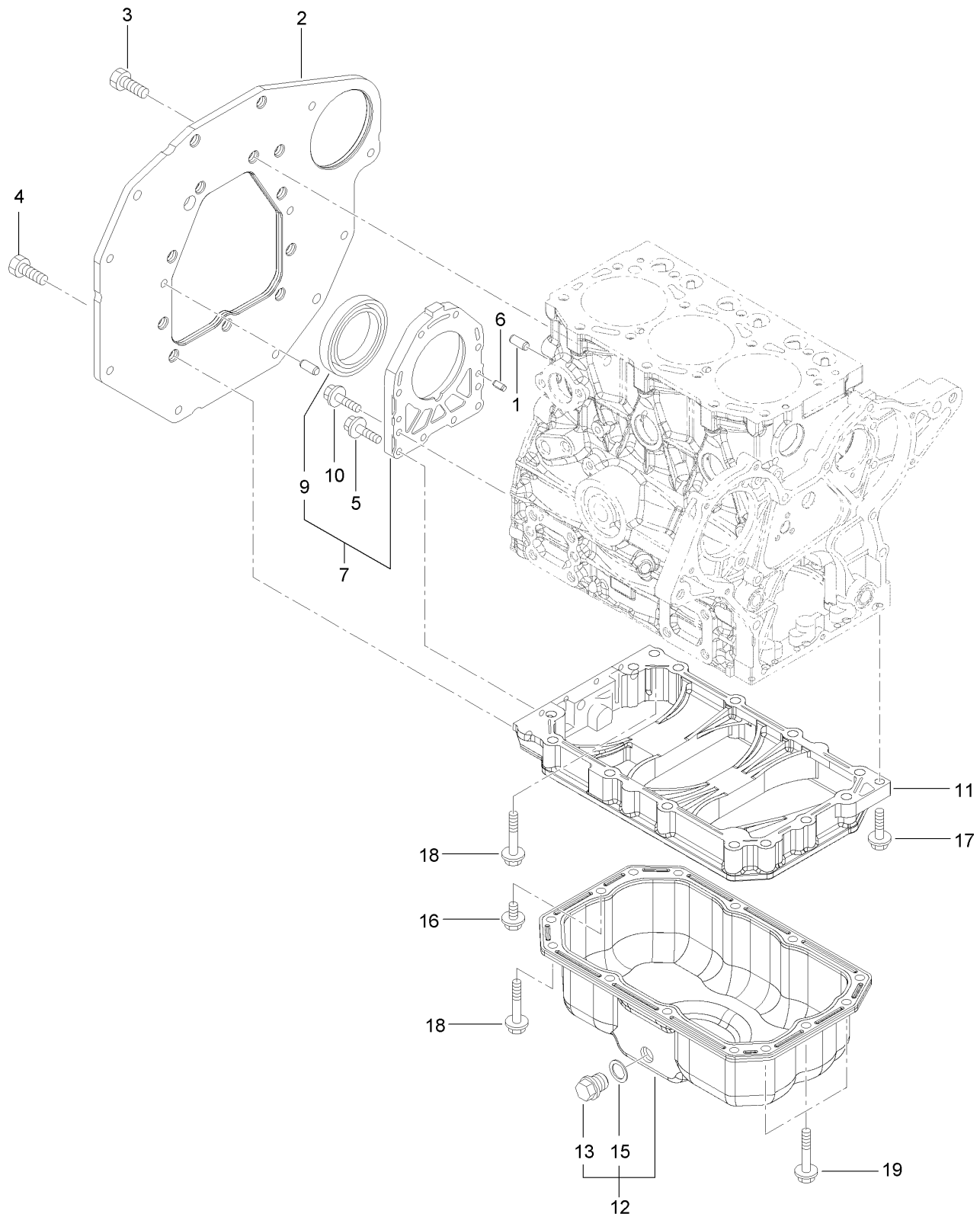
Gear Housing Assembly



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

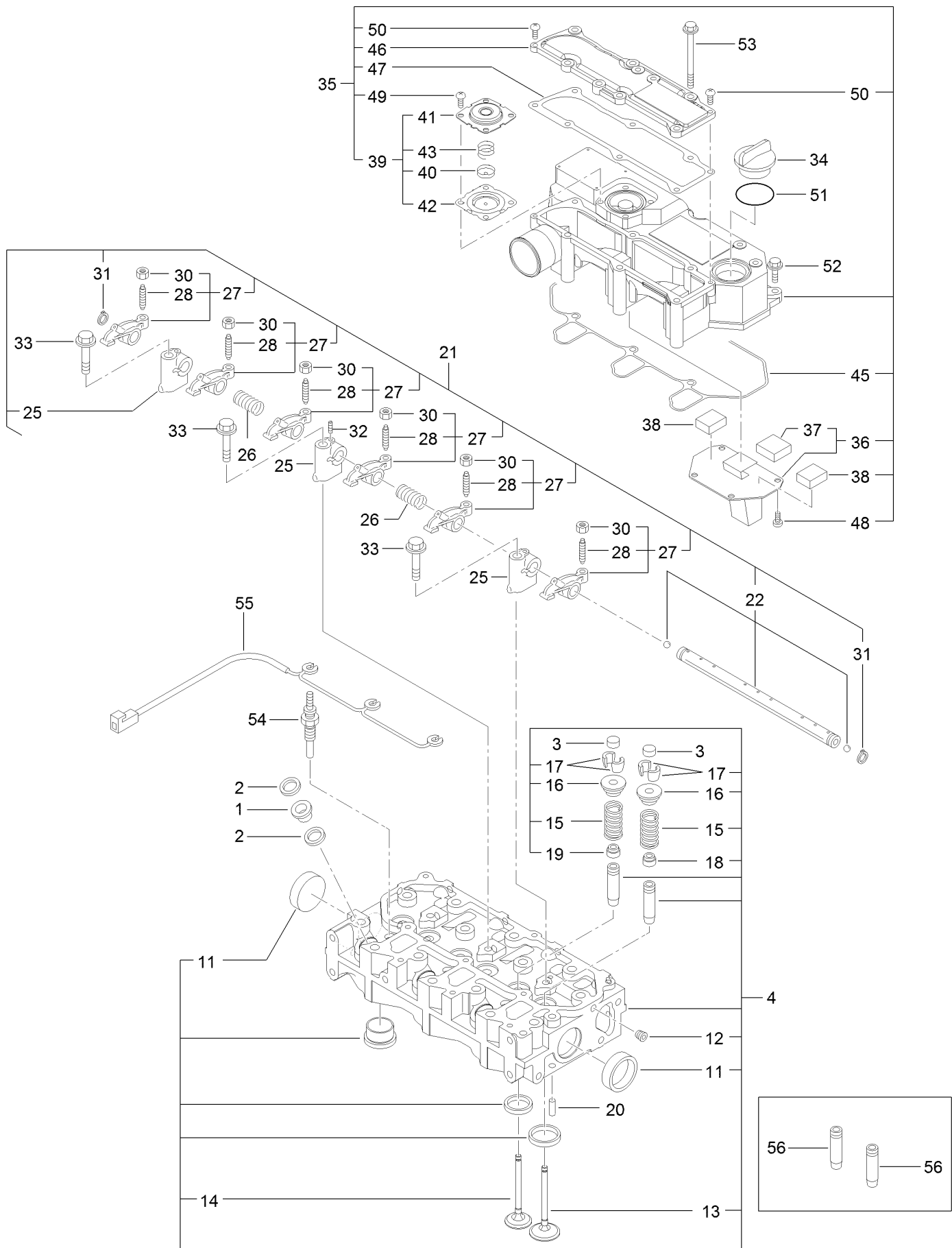


Mounting Flange and Oil Sump Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	125-6995	2	Pin
2	140-7156	1	Flange-Mounting
3	140-7181	9	Bolt
4	125-7226	3	Bolt
5	140-7152	4	Bolt
6	135-4062	2	Pin-Parallel
7	140-7160	1	Case Oil Seal ASM
9	135-4064	1	Seal-Oil
10	135-4065	6	Bolt

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
11	135-4066	1	Spacer-Pan, Oil
12	134-1398	1	Oil Pan ASM
13	135-4068	1	Plug
15	136-8236	1	Washer-Seal
16	125-7212	1	Bolt
17	125-7216	1	Bolt
18	125-7219	11	Bolt
19	125-7220	3	Bolt

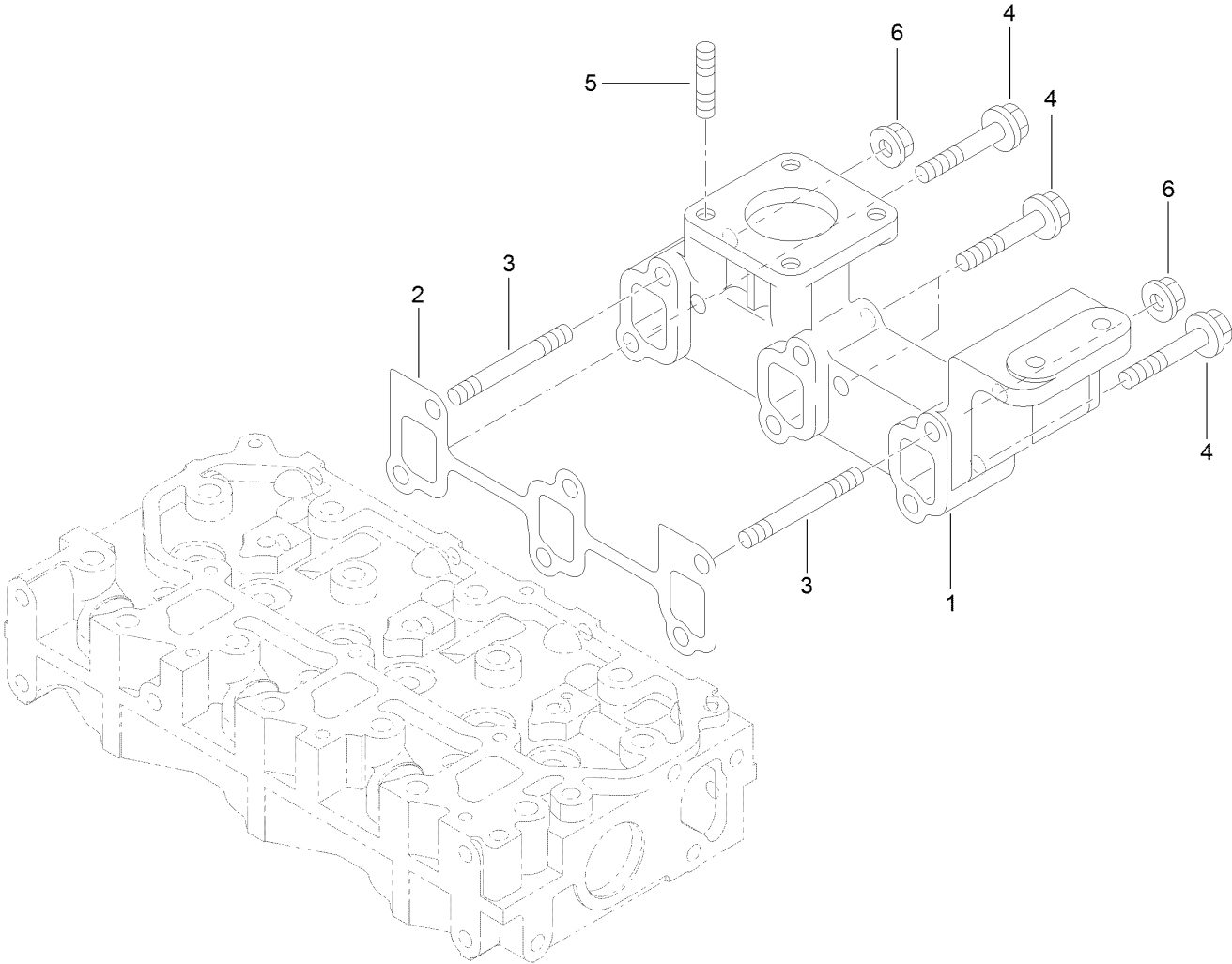
Cylinder Head and Cover Assembly



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

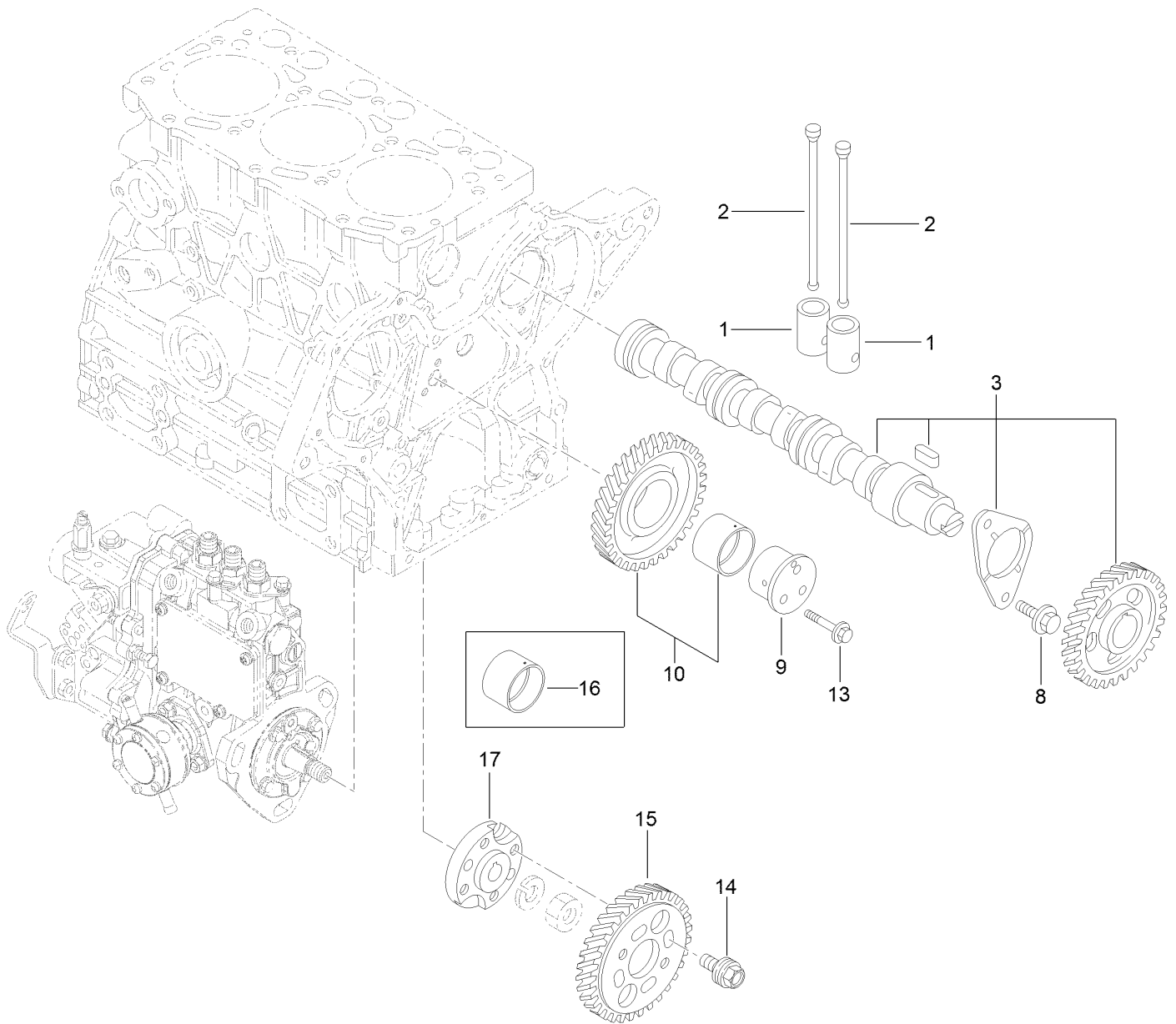


Exhaust Manifold Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	140-7161	1	Manifold-Exhaust
2	135-4107	1	Gasket-Manifold, Exhaust
3	134-1404	2	Bolt-Stud

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
4	133-6714	4	Bolt
5	125-6906	4	Stud
6	125-7229	2	Nut

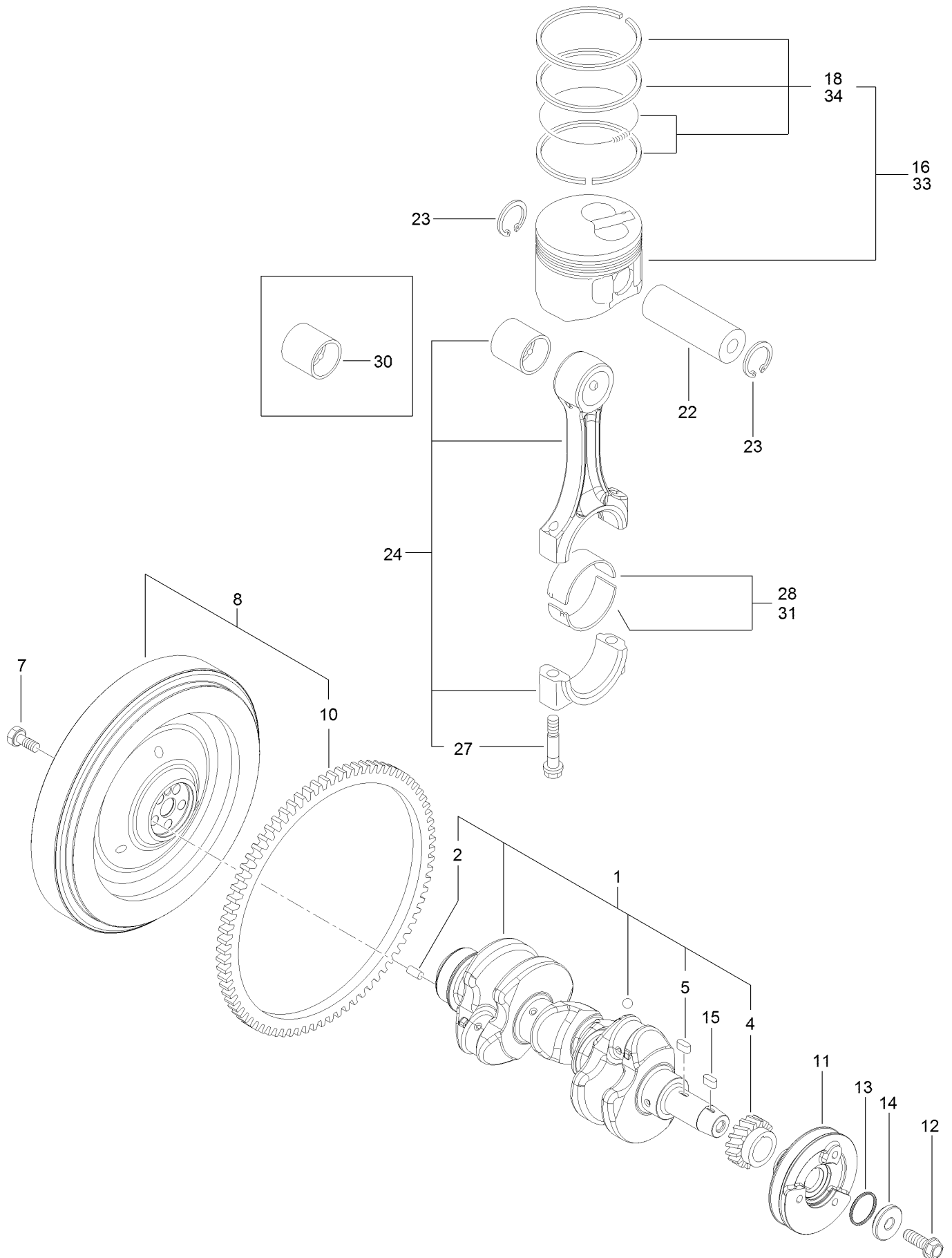
Camshaft and Driving Gear Assembly



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

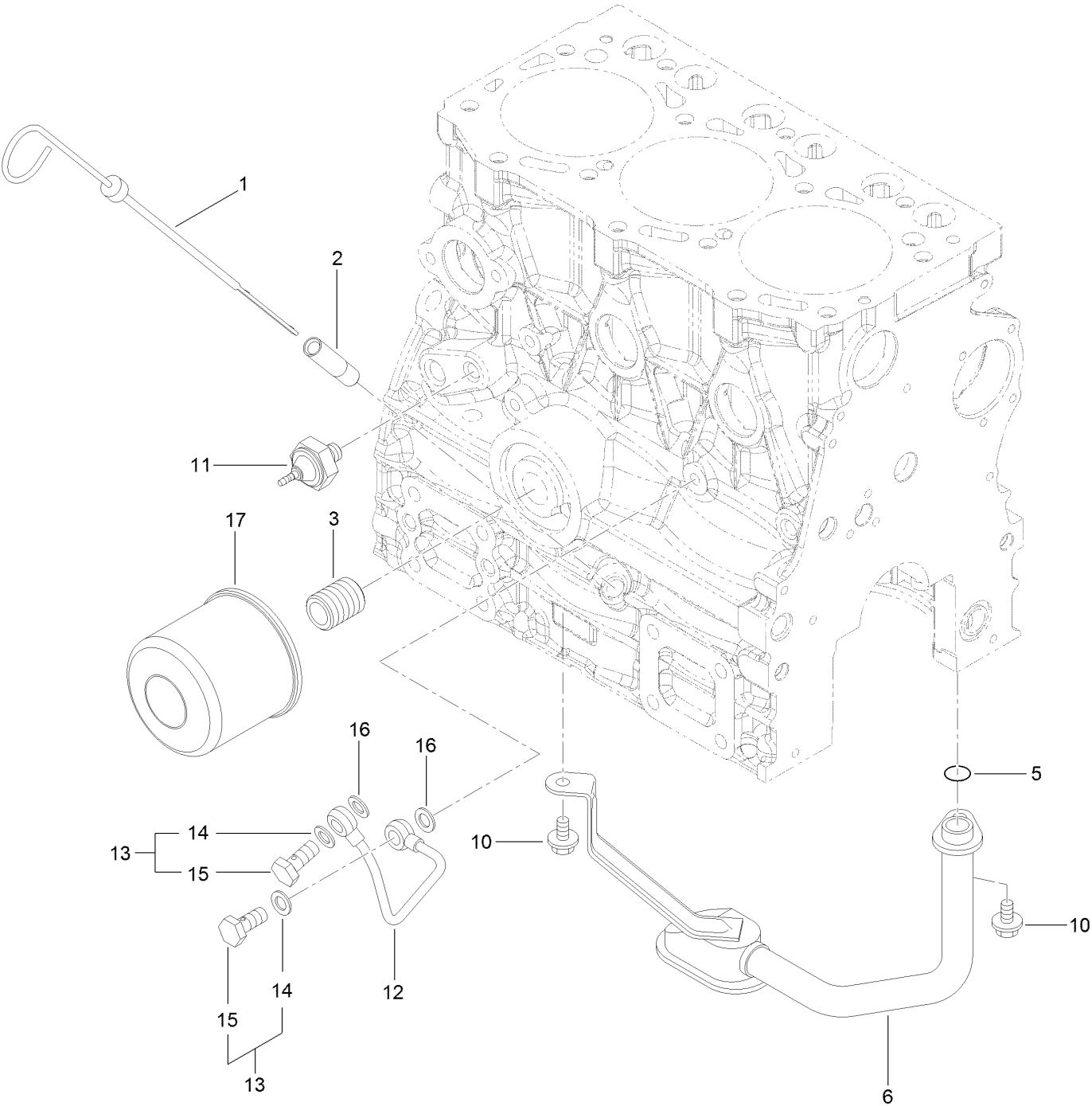


Crankshaft and Piston Assembly (continued)

<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

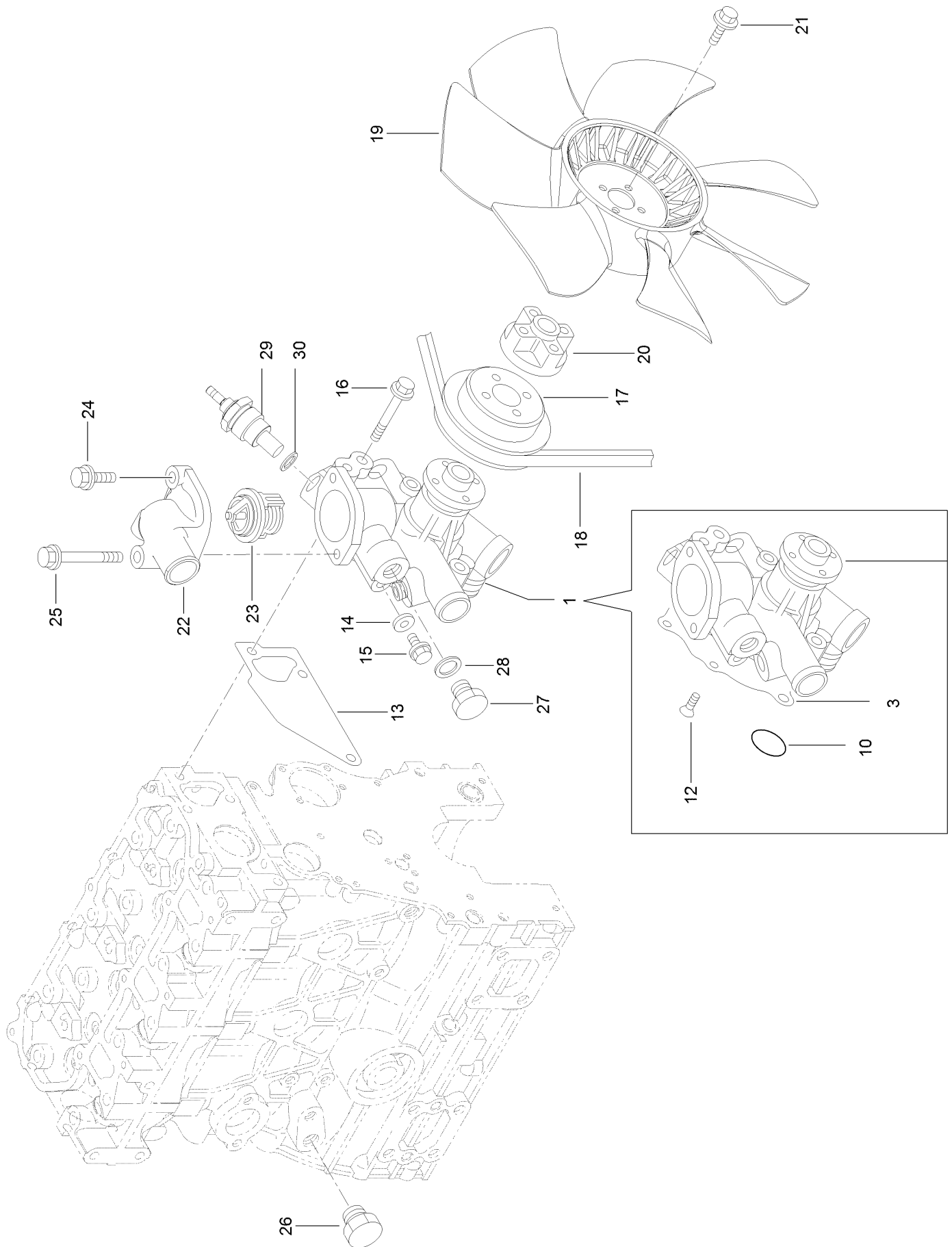
Lubrication and Oil System Assembly



Lubrication and Oil System Assembly (continued)

<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>	<i>Ref.</i>	<i>Part Number</i>	<i>Qty.</i>	<i>Description</i>
1	134-1413	1	Dipstick	12	135-4182	1	Pipe-Oil
2	125-6954	1	Guide-Dipstick	13	125-6988	2	Joint Bolt ASM
3	134-4008	1	Stud	14	125-7174	2	Washer-Seal
5	135-4178	1	O-Ring	15	125-7194	2	Bolt-Joint
6	134-1414	1	Oil Inlet Pipe ASM	16	125-7174	2	Washer-Seal
10	125-7205	2	Bolt	17	135-4181	1	Filter-Oil, Engine
11	134-1377	1	Switch-Hydraulic				

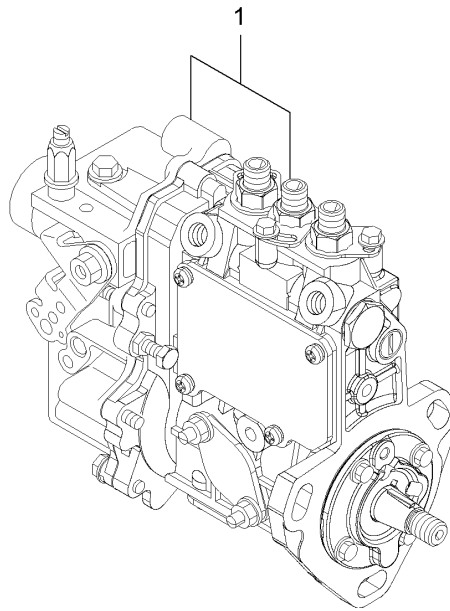
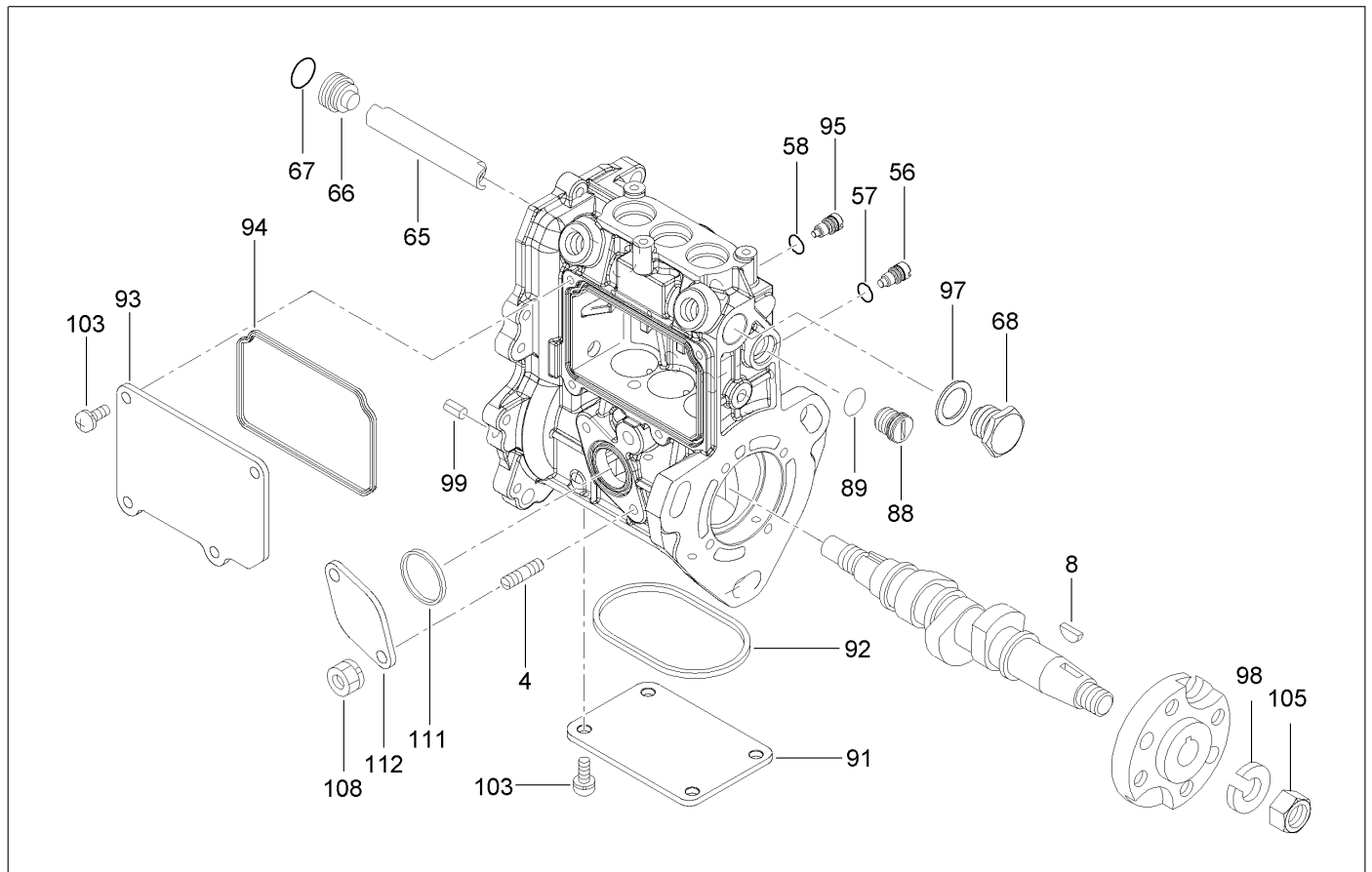
Cooling Water System Assembly



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	21	131-2739	4	Bolt
3	135-4188	1	Gasket	22	135-4199	1	Cover-Thermostat
10	135-4190	1	O-Ring	23	135-4200	1	Thermostat
12	133-2504	4	Screw	24	135-4201	1	Bolt
13	135-4193	1	Gasket-Pump, Water	25	135-4202	1	Bolt
14	125-7192	1	Gasket	26	125-7171	1	Plug-Drain
15	125-7212	1	Bolt	27	125-6953	1	Plug
16	125-7220	3	Bolt	28	125-6979	1	Gasket
17	134-1417	1	V-Pulley	29	134-3128	1	Sensor-Temperature (X1 Terminal)
18	140-7179	1	V-Belt	30	134-4010	1	Gasket
19	140-7157	1	Fan-Cooling				
20	131-2705	1	Spacer				

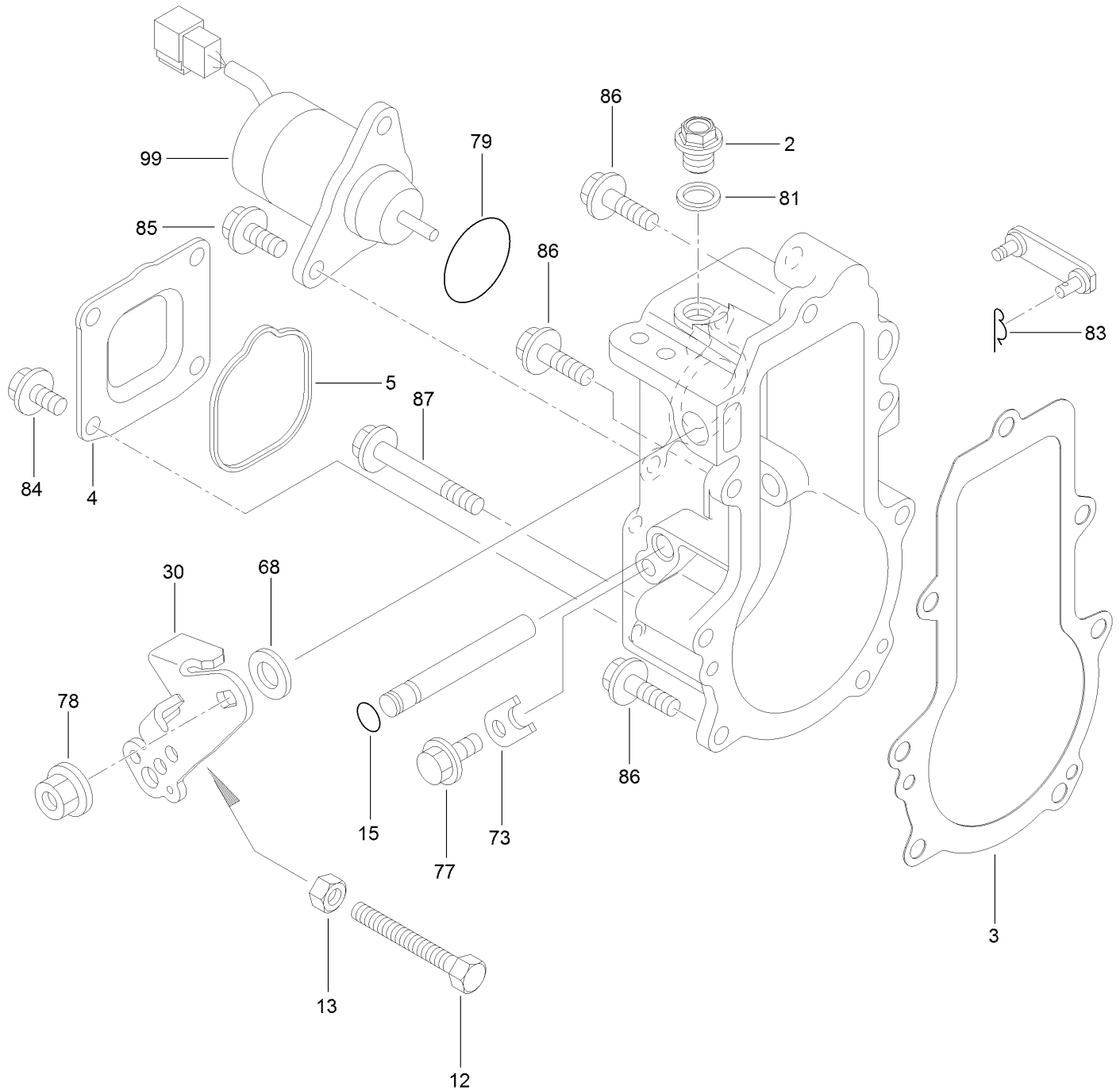
Fuel Injection Pump Assembly



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

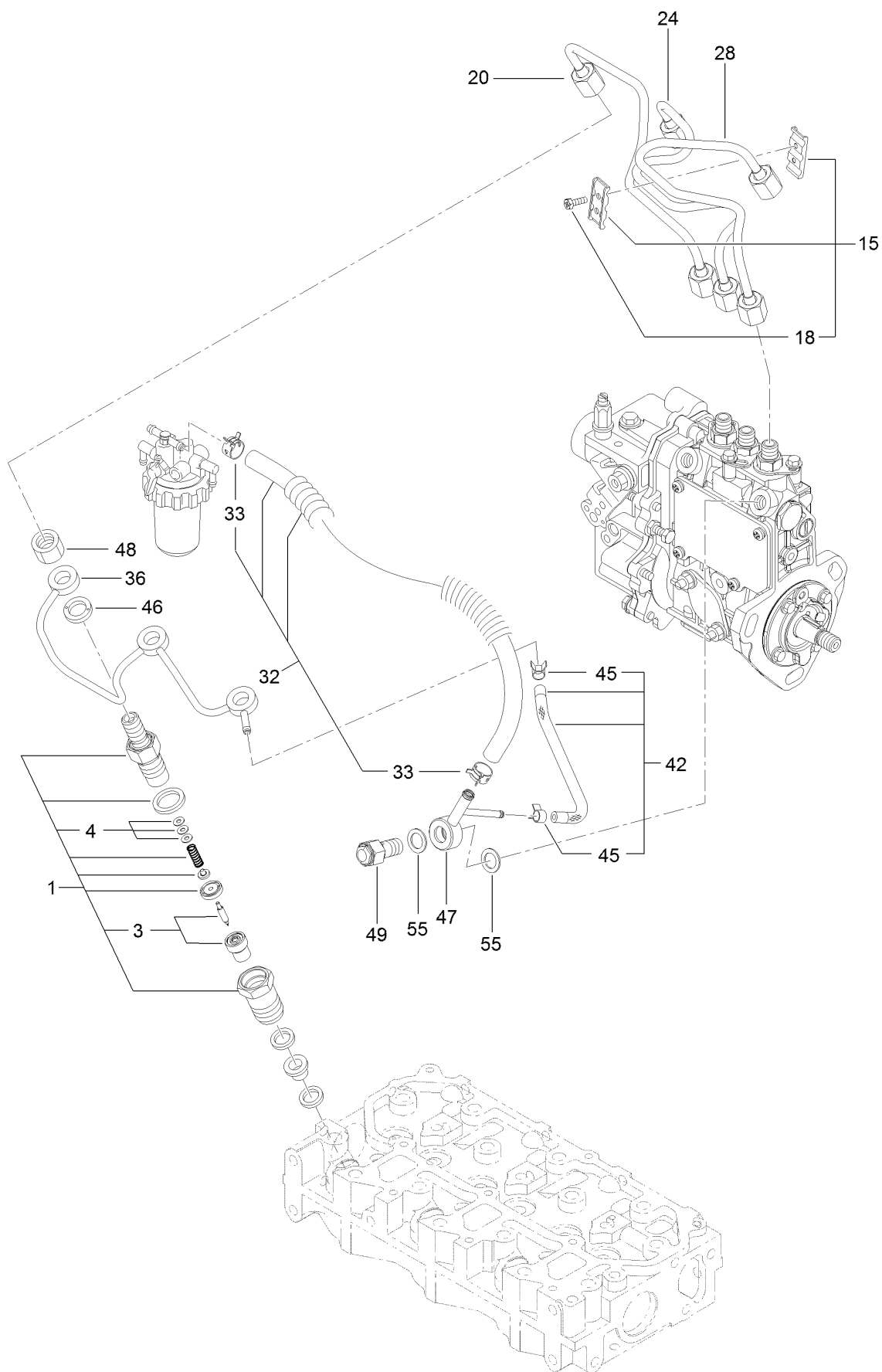
Governor Assembly



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

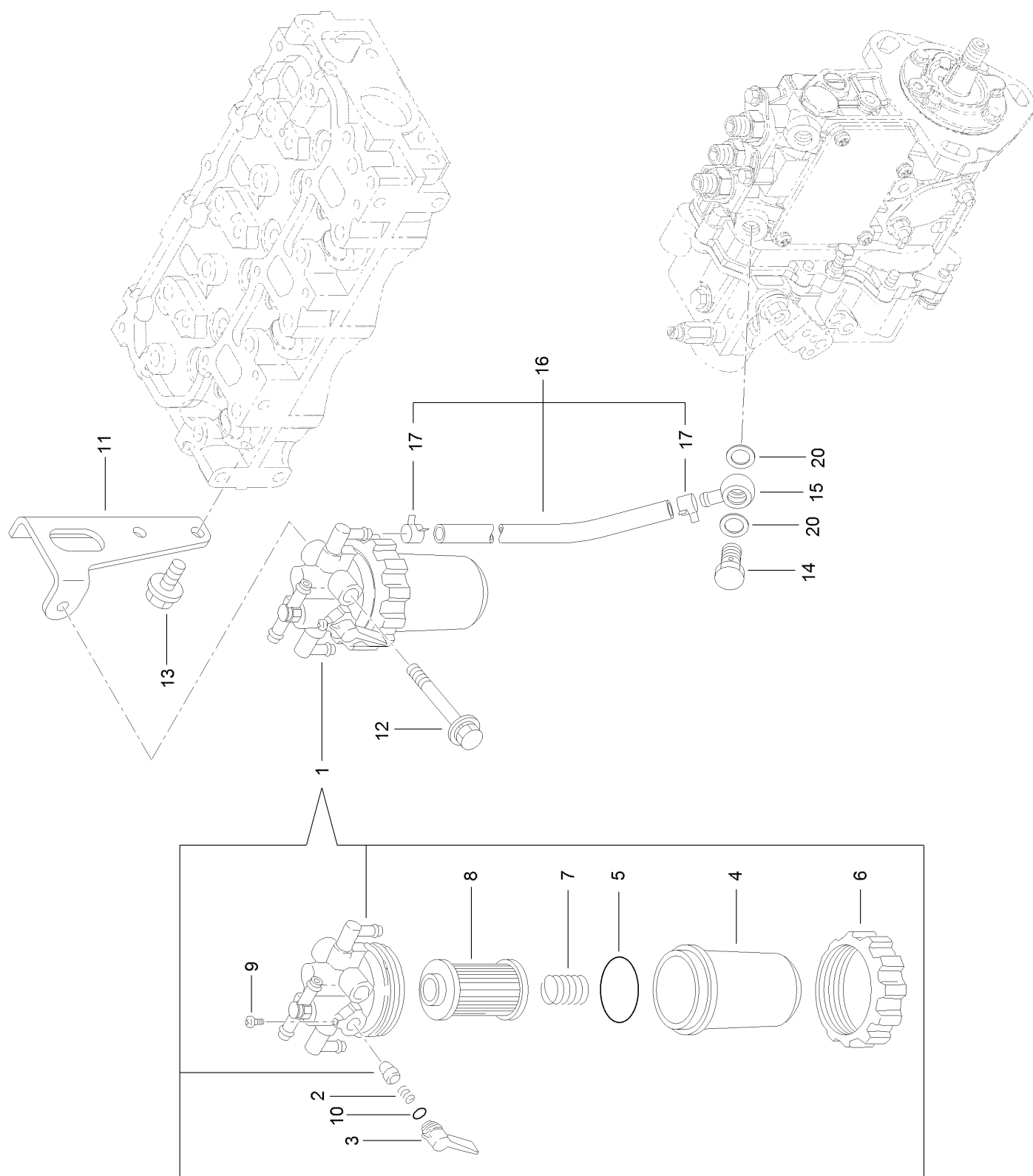
Fuel Injection Valve Assembly



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

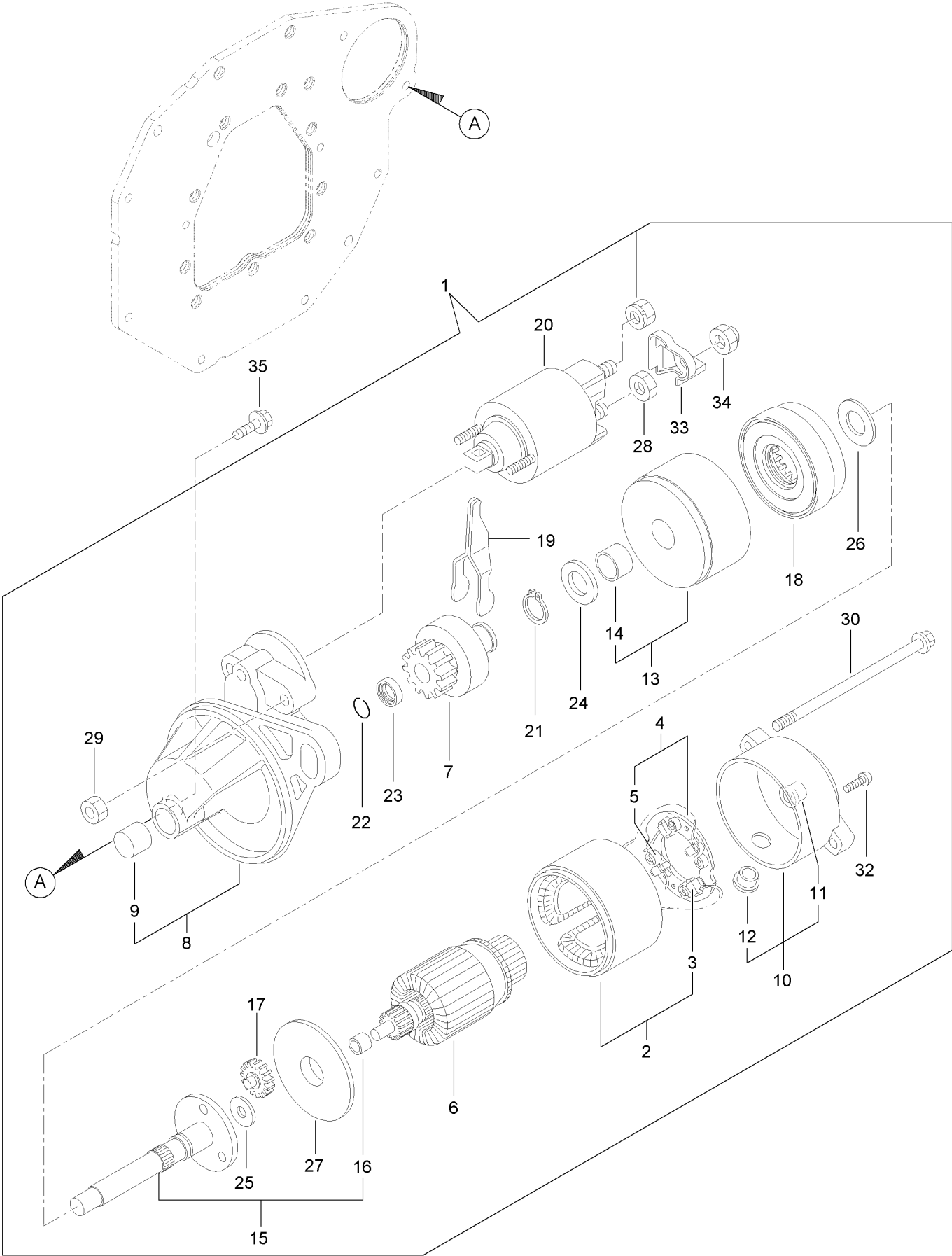
Fuel Pipe Assembly



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

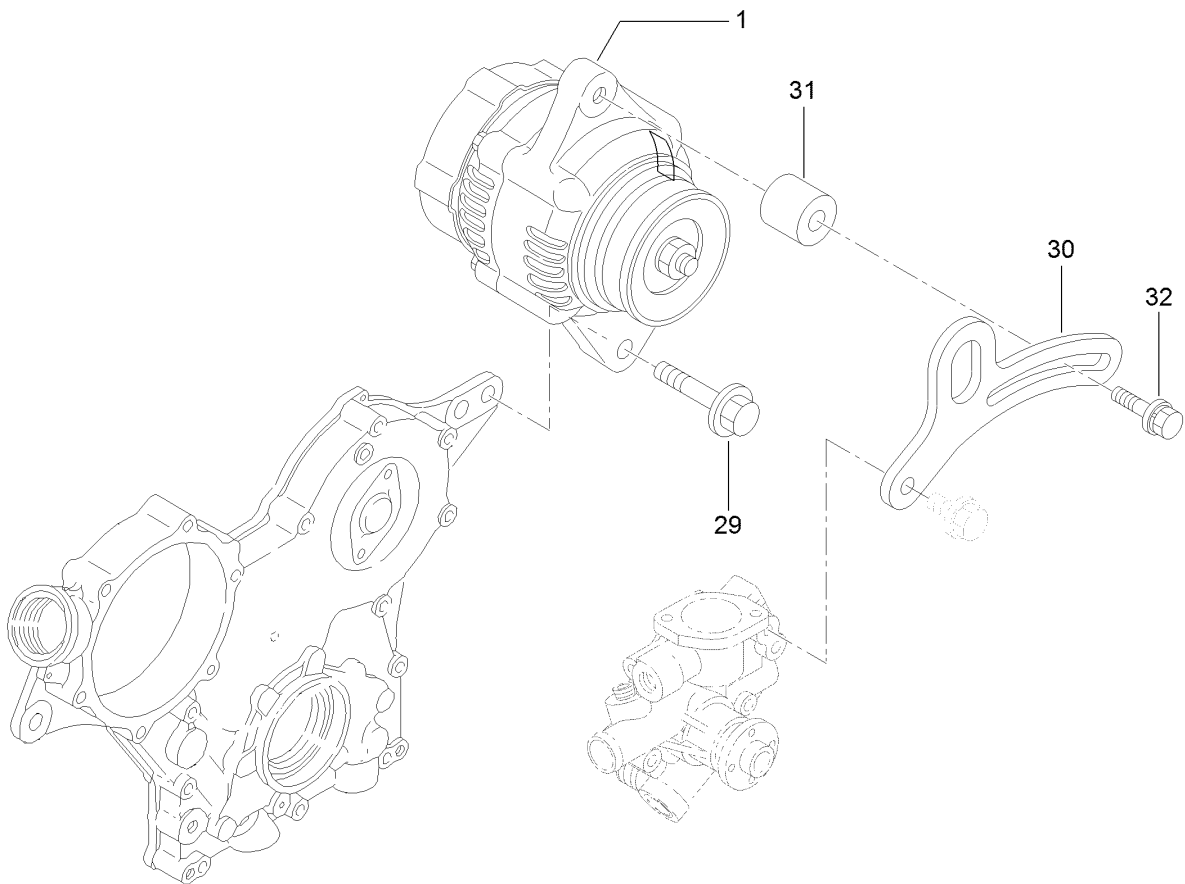
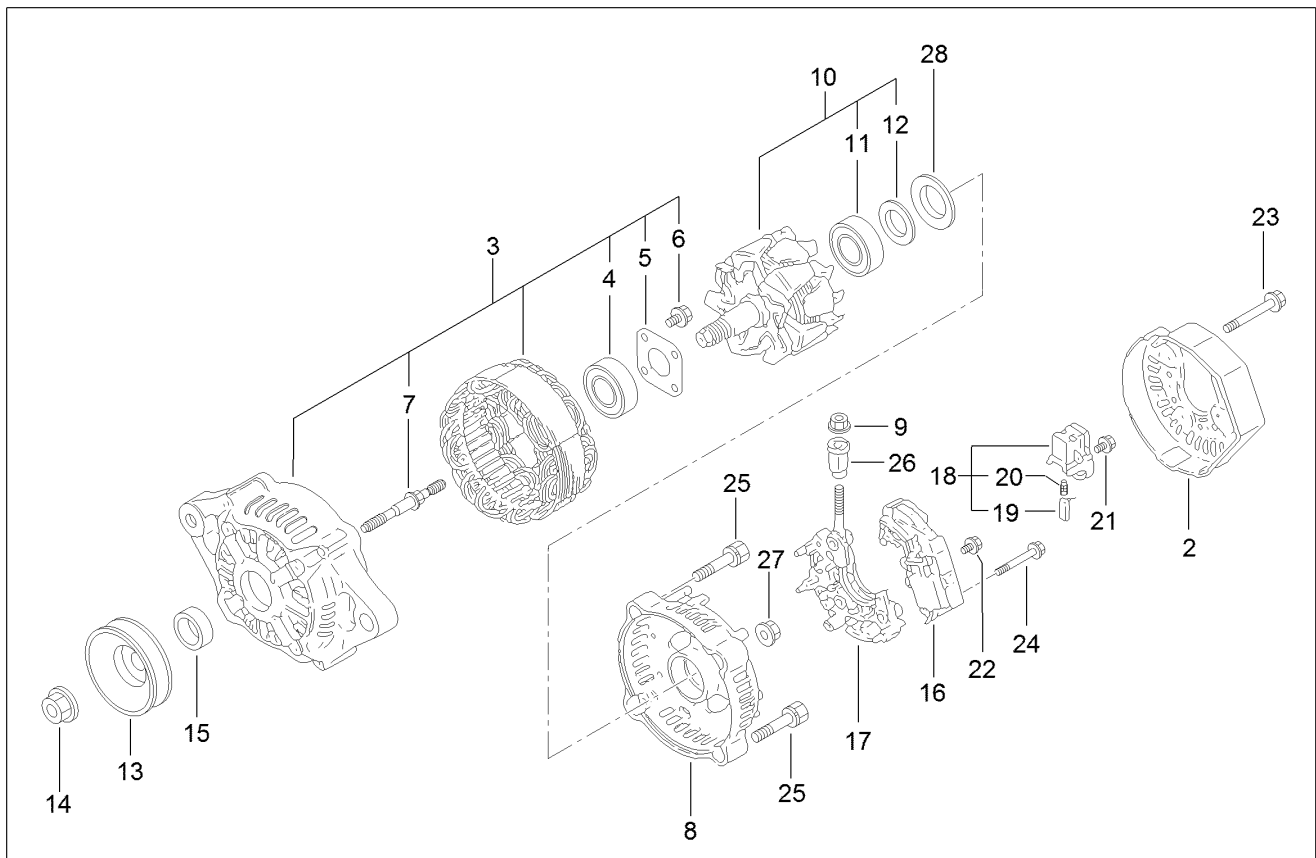
Starter Motor Assembly



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

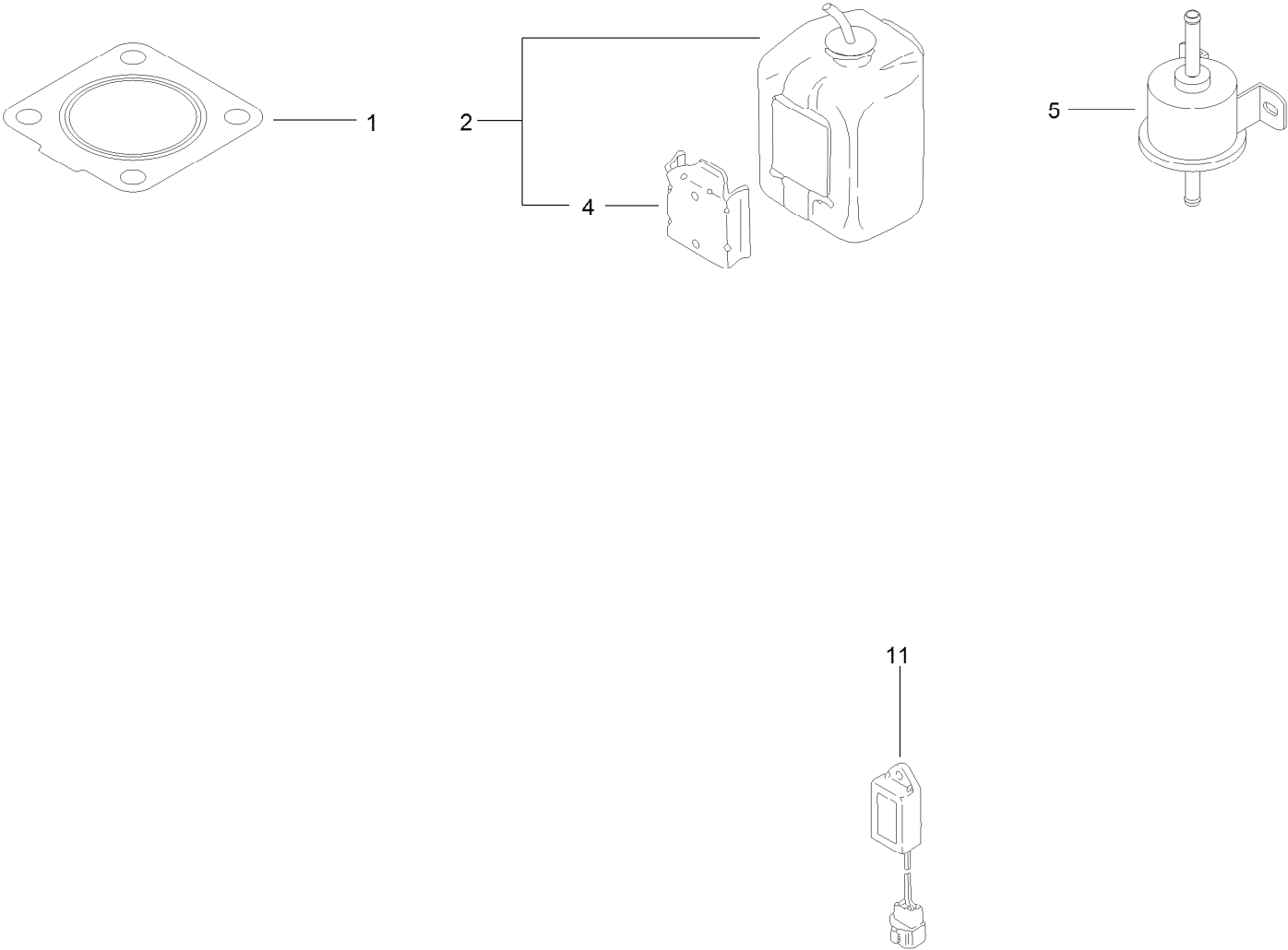
Generator Assembly



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

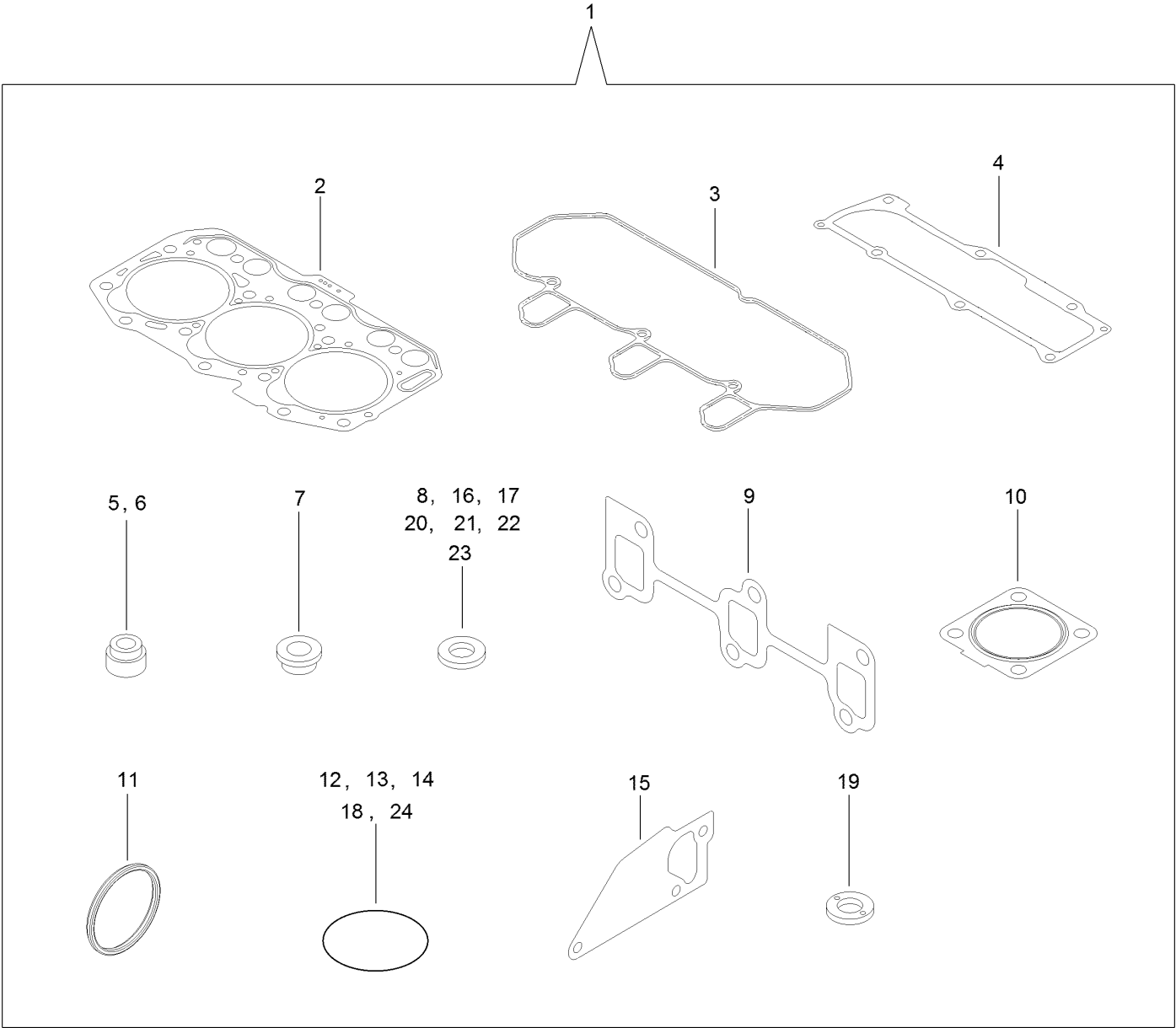
Accessory Assembly



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 31901A — Groundsmaster 3200 All-Wheel Drive Traction Unit

Product Name	Model/Part
Operator Cooling Fan	03247
Switch Panel-Universal Sunshade.....	03248
Air Filter	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 (with 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
Wrench-Caster Cap/Latch	138-6367
Storage Bag Kit.....	139-2020
SMV Kit.....	139-2339
Work Lights Kit, Groundsmaster and Reelmaster Traction Units with Universal Sunshade.....	140-1554
Power Harness Kit	140-1559
Kit-Weight	144-0480
Plate-Weight, 25 LBS	144-0484
Universal Wireless Hourmeter Kit	144-2436
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
Hose Replacement Kit, Groundsmaster 3200 or 3300 Series Traction Unit.....	144-3960
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

Attachments and Accessories (continued)

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
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
Seat Assembly-Standard	32301
Seat Assembly-Mechanical Suspension.....	32302
Air Ride Seat Kit, Groudsmaster	32303
Toro Red 12oz Aerosol Can	361-10
Semi-Gloss Black Spray Paint.....	361-9
Transmission Oil Filter	86-3010
Boss Plow, 5ft Straight Blade	MSC23345
Blade Crate (Snowplow), ATV Poly S	STB13567B

Notes:

Notes:



Count on it.