Form No. 3479-438 Rev A

TORO®

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Parts Catalog

Groundsmaster® 3505-D

Rotary Mower

Model No. 30849—Serial No. 420000000 and Up

Register at www.Toro.com.
Original Instructions (EN)

CE

3479-438 A

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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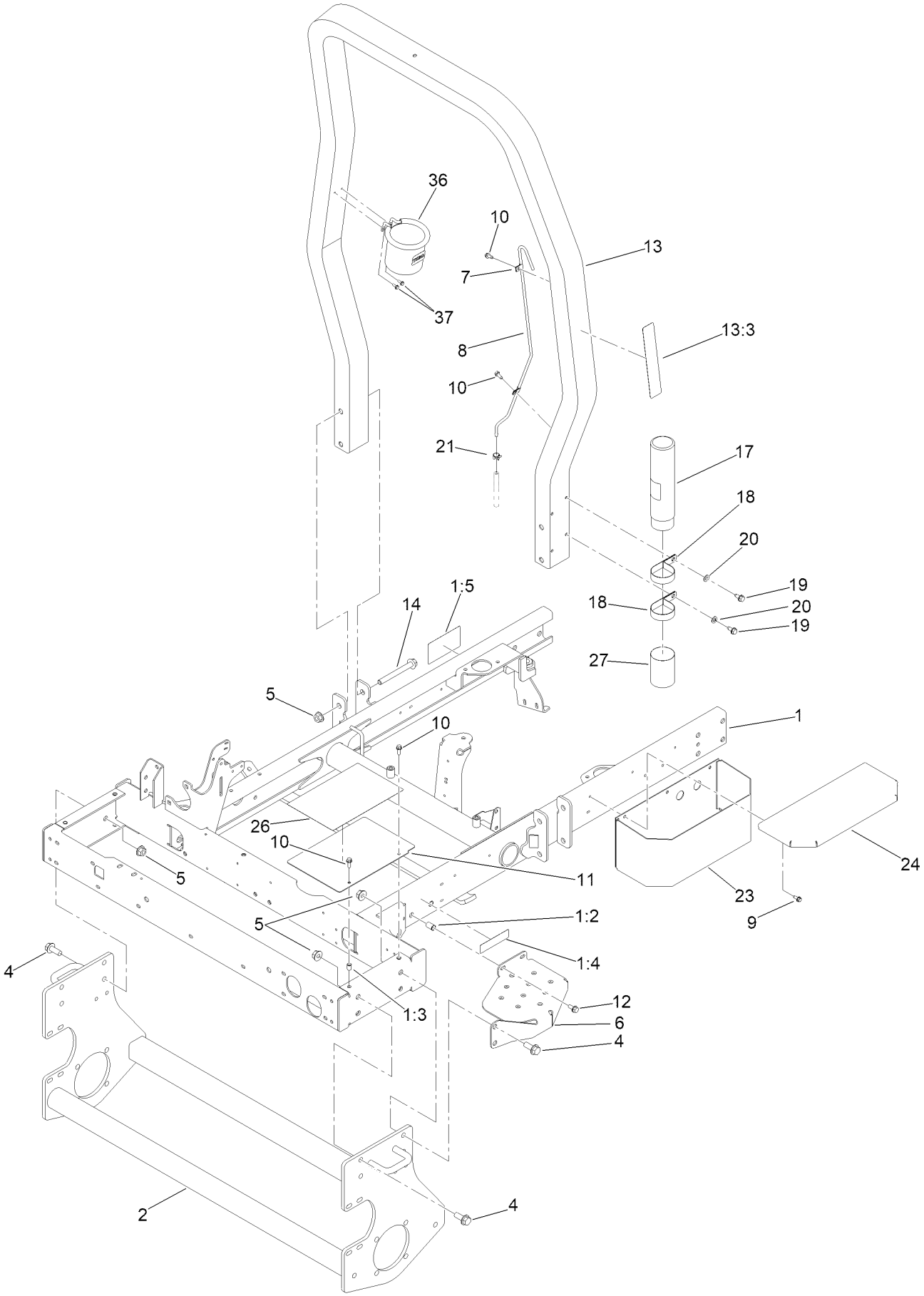
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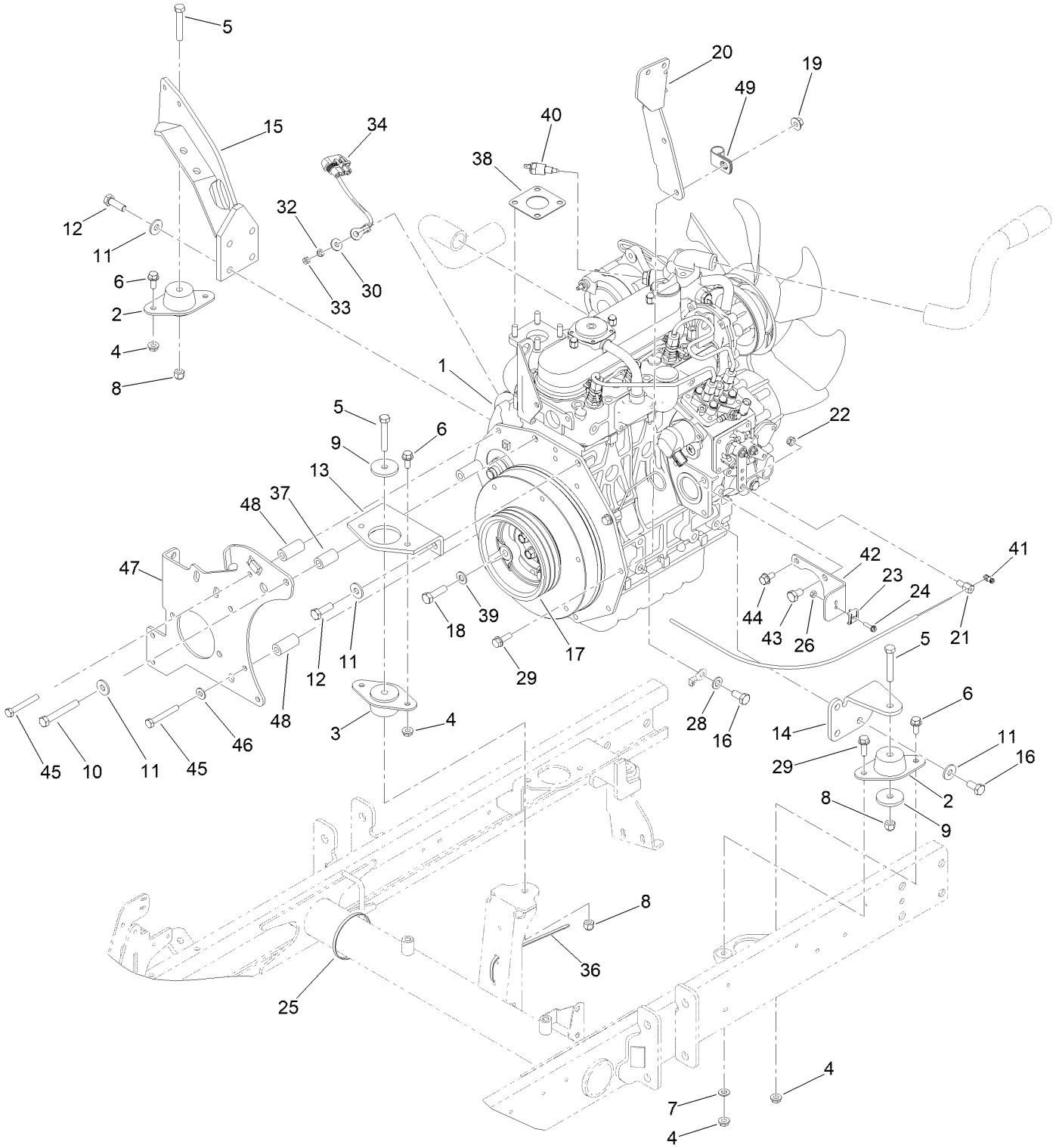
Frame and Roll-Over Protection System Assembly



Frame and Roll-Over Protection System Assembly (continued)

Ref.	Part Number	Qty.	Description
1	121-3635	1	Frame
1:2	32148-8	2	Nut-Clinch
1:3	32148-6	4	Nut-Clinch
1:4	133-8062	1	Decal-Spark Arrestor
1:5	117-3270	1	Decal-Danger
2	95-8568-03	1	Frame-Lower
4	3234-38	8	Screw-HHF
5	32128-49	12	Nut-HHF
6	99-3375-03	1	Step
7	2412-72	2	Clip-Closed, Insulated
8	95-8615	1	Tube-Breather
9	32144-10	5	Screw-HWH
10	3234-4	2	Screw-HHF
11	104-0468-01	1	Cover-Frame
12	3234-5	2	Screw-HHF
13	127-8493	1	ROPS ASM
13:3	136-3702	1	Decal-Safety, ROPS
14	117-3176	4	Screw-HHF
17	104-7050	1	Tube-Manual
18	2412-133	2	Clamp-R
19	32144-70	2	Screw-HWHTF
20	3256-23	2	Washer-Plain
21	2412-98	1	Clamp-Hose
23	104-4634-03	1	Toolbox
24	104-4633-03	1	Cover-Toolbox
26	121-3623	1	Decal-Danger
27	104-7048	1	Cap-Housing
36	161-8355	1	Cup Holder ASM
37	32144-1	2	Screw-Taptite

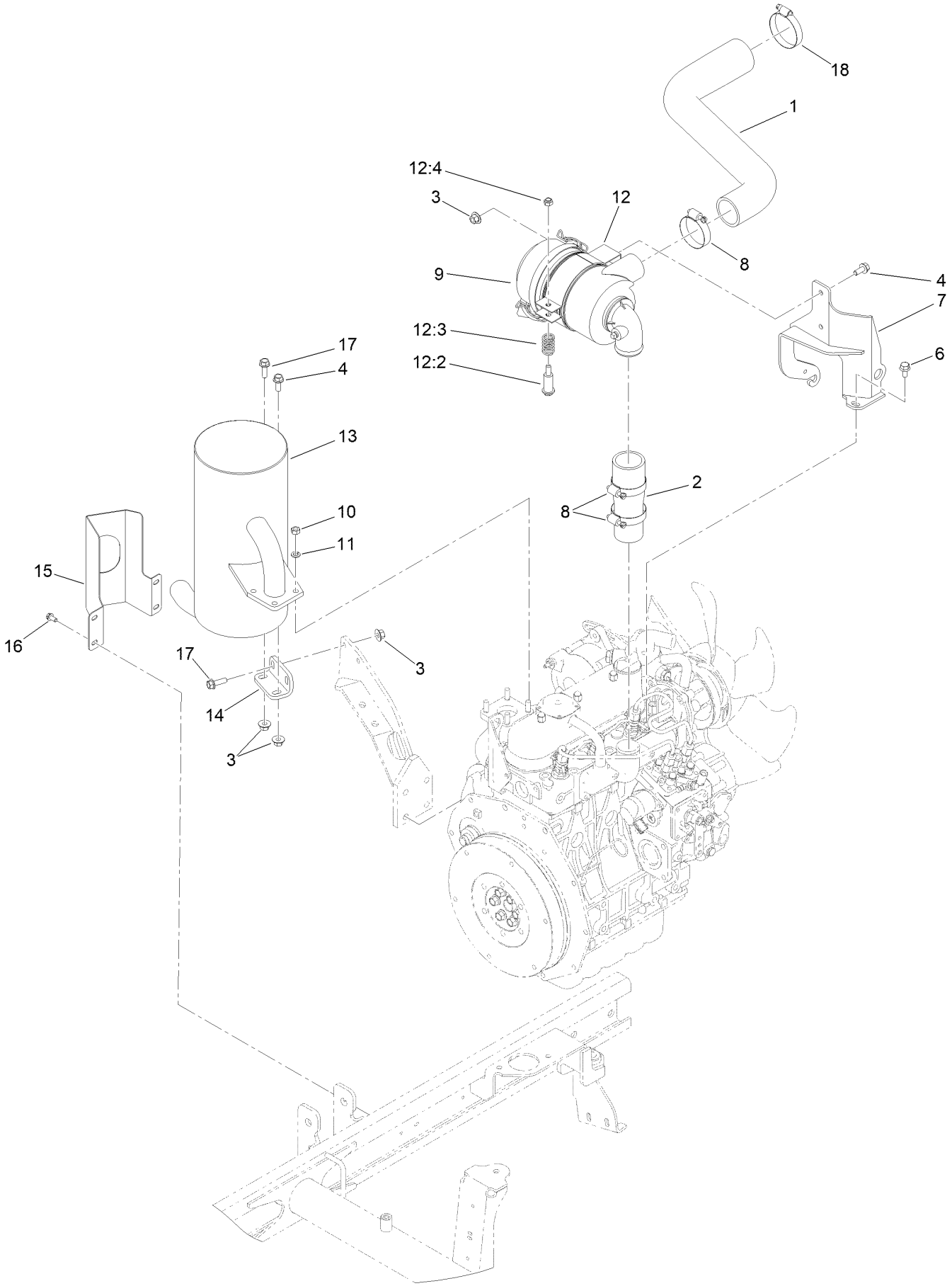
Engine Assembly



Engine Assembly (continued)

Ref.	Part Number	Qty.	Description
1	145-2804	1	Engine-Kubota, D1105
2	121-9076	2	Mount-Engine
3	93-5265	1	Mount-Engine
4	32128-20	6	Nut-HF
5	323-11	3	Screw-HH
6	3234-5	5	Screw-HHF
7	120-9683	1	Washer-Plain
8	3296-39	3	Nut-Lock, NI
9	80-8560	3	Washer-Hardened
10	42-9370	1	Screw-HH
11	80-6990	9	Washer-Hardened
12	95-8812	5	Screw-HH
13	99-3618-0P	1	Mount-Engine, Front
14	95-8937-0P	1	Mount-Engine, LH
15	100-4838-0P	1	Mount-Engine
16	63-7790	4	Screw-Cap
17	99-3626	1	Pulley-3V
18	56-2140	3	Screw-HH
19	32128-44	2	Nut
20	115-3487-0P	1	Bracket-Mount, Fuel Filter
21	98-9311	1	Swivel-Throttle
22	3296-20	1	Nut-Lock, NI
23	81-1690	1	Clamp-Cable
24	32105-13	1	Screw-HWH
25	3290-379	2	Tie-Cable
26	3296-2	1	Nut-Lock, NI
28	33095-00	1	Washer-Flat
29	3234-17	3	Screw-HHF
30	3256-78	1	Washer-Flat
32	43-5930	1	Washer-Lock, Spring
33	48-7890	1	Nut-Hex
34	99-3441	1	Harness-Wire, Fusible Link
36	3290-378	14	Tie-Cable
37	95-8736	1	Spacer
38	98-9611	1	Gasket
39	3256-24	3	Washer-Plain
40	106-7772	1	Thermoswitch
41	112-9919	1	Stop-Cable, Throttle
42	110-9009-0P	1	Bracket-Cable, Throttle
43	70-8470	1	Screw-HH
44	33104-016	1	Screw-HHF
45	33114-060	4	Screw-HH
46	87-8640	3	Washer-Flat
47	120-3375-0P	1	Plate-Mount, Pump
48	95-8941	4	Spacer-Mount, Pump
49	2412-138	1	R-Clamp

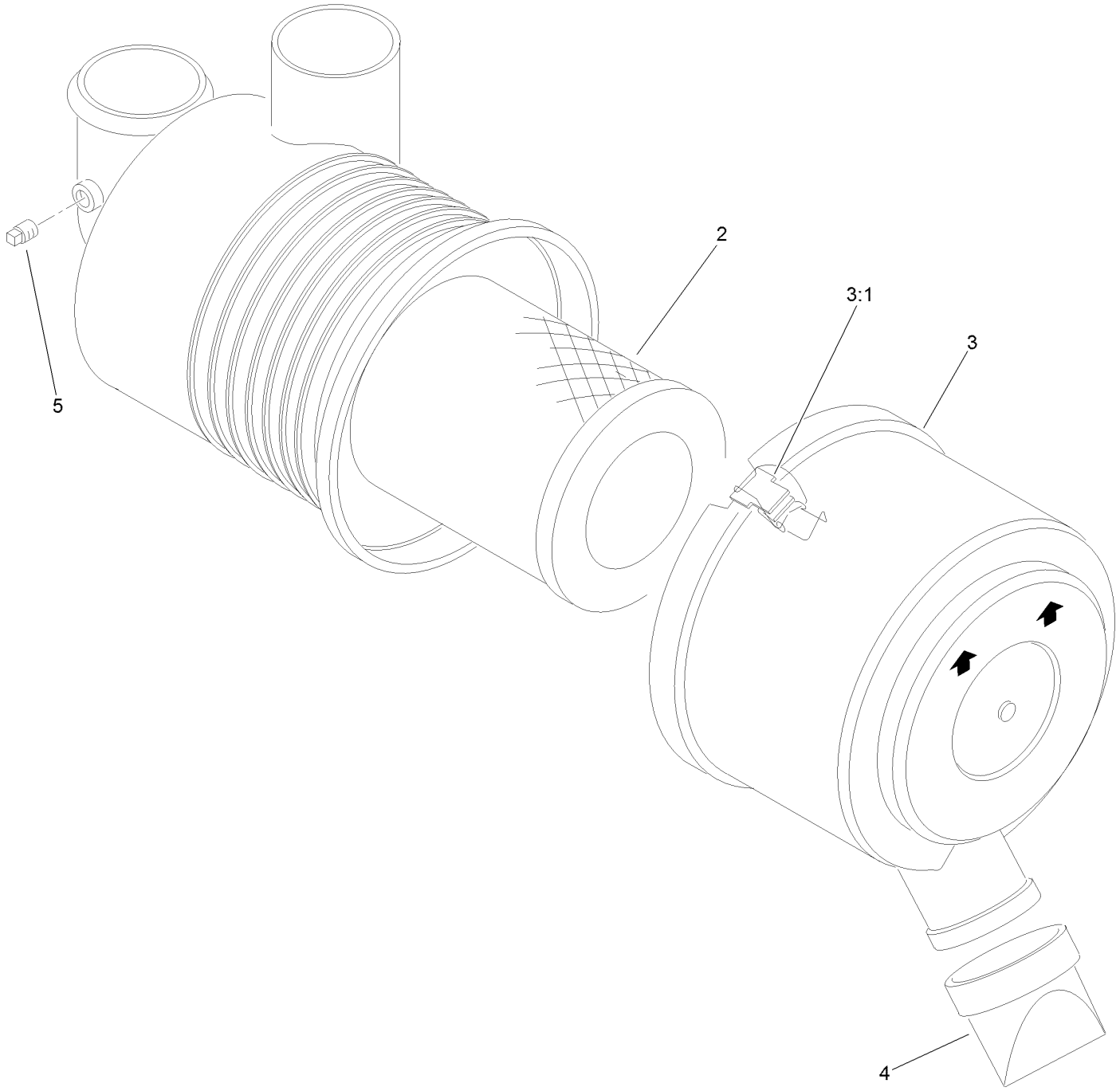
Air Cleaner and Muffler Assembly



Air Cleaner and Muffler Assembly (continued)

Ref.	Part Number	Qty.	Description
1	120-3354	1	Hose-Air Inlet, Upper
2	95-8947	1	Hose-Air Inlet, Lower
3	32128-44	6	Nut
4	3234-5	3	Screw-HHF
6	33104-016	3	Screw-HHF
7	136-3154-0P	1	Bracket-Cleaner, Air
8	2412-92	3	Clamp-Hose
9	93-2190	1	Air Cleaner ASM
10	33014-00	4	Nut-Hex
11	3253-4	4	Washer-Lock
12	93-2191	1	Air Cleaner Mounting Band ASM
12:2	94-3653	1	Bolt
12:3	94-3654	1	Spring
12:4	33024-00	1	Nut-Lock, NI
13	139-6013	1	Muffler
14	95-8943-0P	1	Bracket-Muffler
15	140-7428-03	1	Guard-Exhaust
16	32144-4	4	Screw-HWH
17	3234-17	3	Screw-HHF
18	2412-130	1	Clamp-Hose

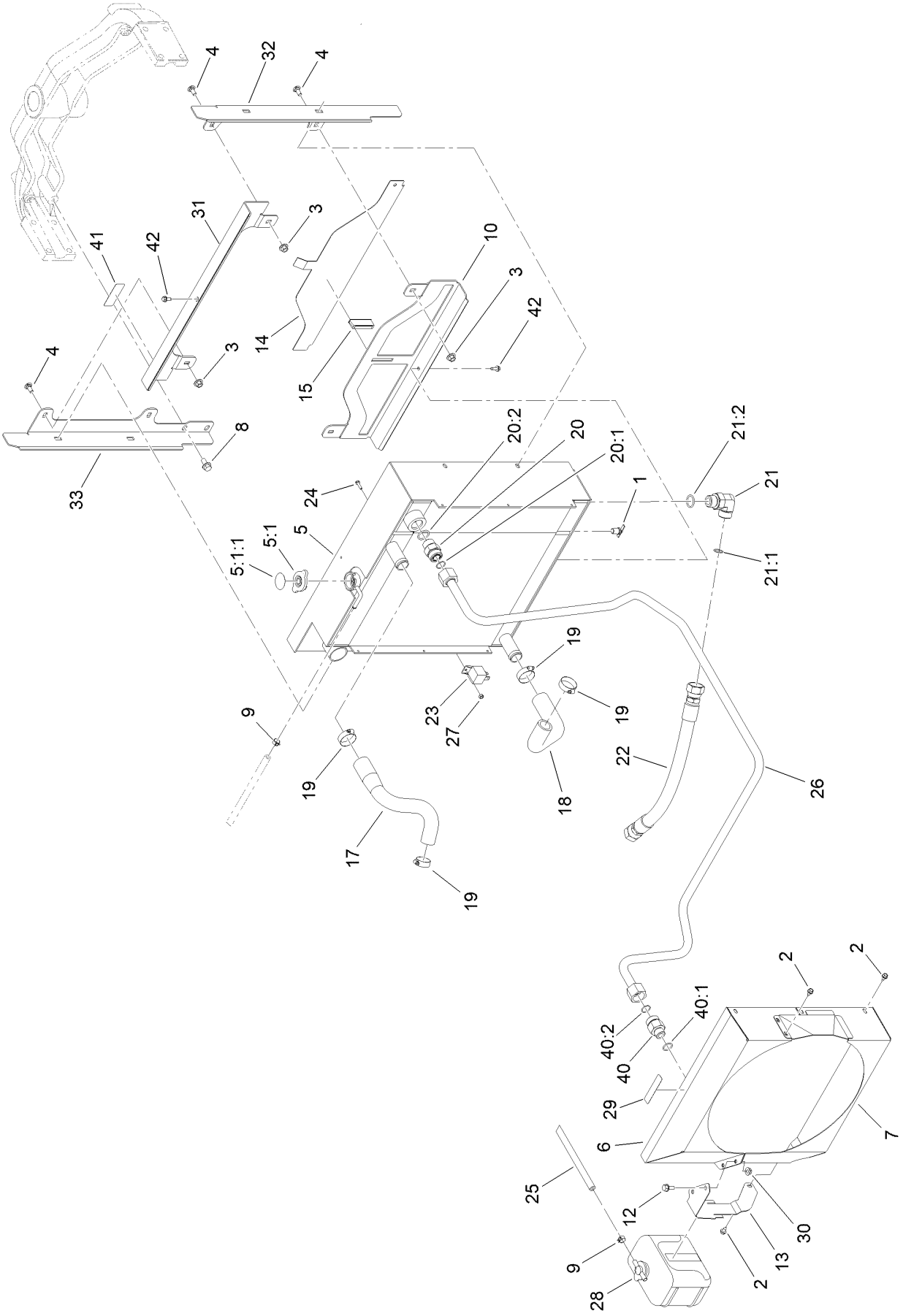
Air Cleaner Assembly No. 93-2190



Air Cleaner Assembly No. 93-2190 (continued)

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

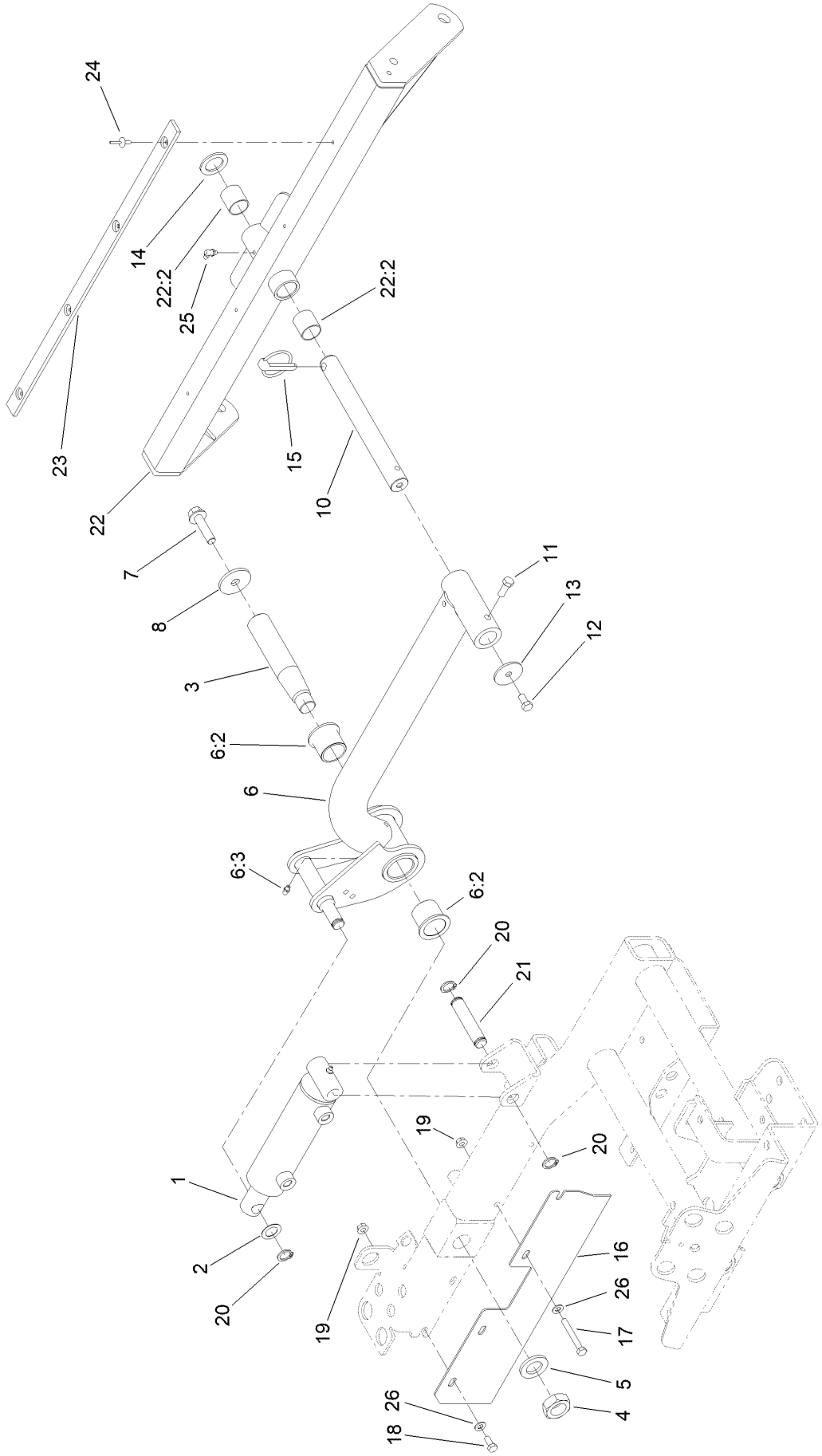
Radiator and Oil Cooler Assembly



Radiator and Oil Cooler Assembly (continued)

Ref.	Part Number	Qty.	Description
1	304-46	1	Draincock
2	32104-116	8	Screw-HWHTF
3	32128-44	8	Nut
4	3230-1	8	Bolt-CARR
5	119-2028	1	Radiator And Oil Cooler ASM
5:1	115-7766	1	Cap-Radiator
5:1:1	106-6755	1	Decal-Cap, Radiator
6	121-3556-0P	1	Shroud-Fan, Upper
7	121-3552-0P	1	Shroud-Fan, Lower
8	3234-1	4	Screw-HHF
9	92-2379	2	Clamp-Hose
10	120-3530-0P	1	Bracket-Radiator, Bottom
12	3234-5	2	Screw-HHF
13	121-3557-0P	1	Bracket-Resevoir
14	95-8702-0P	1	Shield-Radiator, Lower
15	99-3497	1	Magnet
17	121-3558	1	Hose-Radiator, Upper
18	120-3399	1	Hose-Radiator, Lower
19	2412-34	4	Clamp-Hose
20	340-9	1	Fitting-STR
20:1	237-58	1	O-Ring
20:2	237-81	1	O-Ring
21	340-142	1	Fitting-Elbow, 90 DEG
21:1	237-58	1	O-Ring
21:2	237-81	1	O-Ring
22	92-7536	1	Hose-HYD
23	99-7435	1	Relay
24	32105-13	1	Screw-HWH
25	109-0274	1	Hose-Fuel
26	145-5284	1	Hydraulic Tube ASM
27	3296-2	1	Nut-Lock, NI
28	108-0638	1	Bottle-Overflow
29	93-6681	1	Decal-Warning, Fan
30	32128-20	2	Nut-HF
31	120-3529-0P	1	Bracket-Radiator, Top
32	120-3531-0P	1	Bracket-Radiator, LH
33	120-3532-0P	1	Bracket-Radiator, RH
40	340-66	1	Fitting-Straight
40:1	237-80	1	O-Ring
40:2	237-58	1	O-Ring
41	125-6688	1	Decal-Danger, Starter Fluid
42	32144-10	2	Screw-HWH

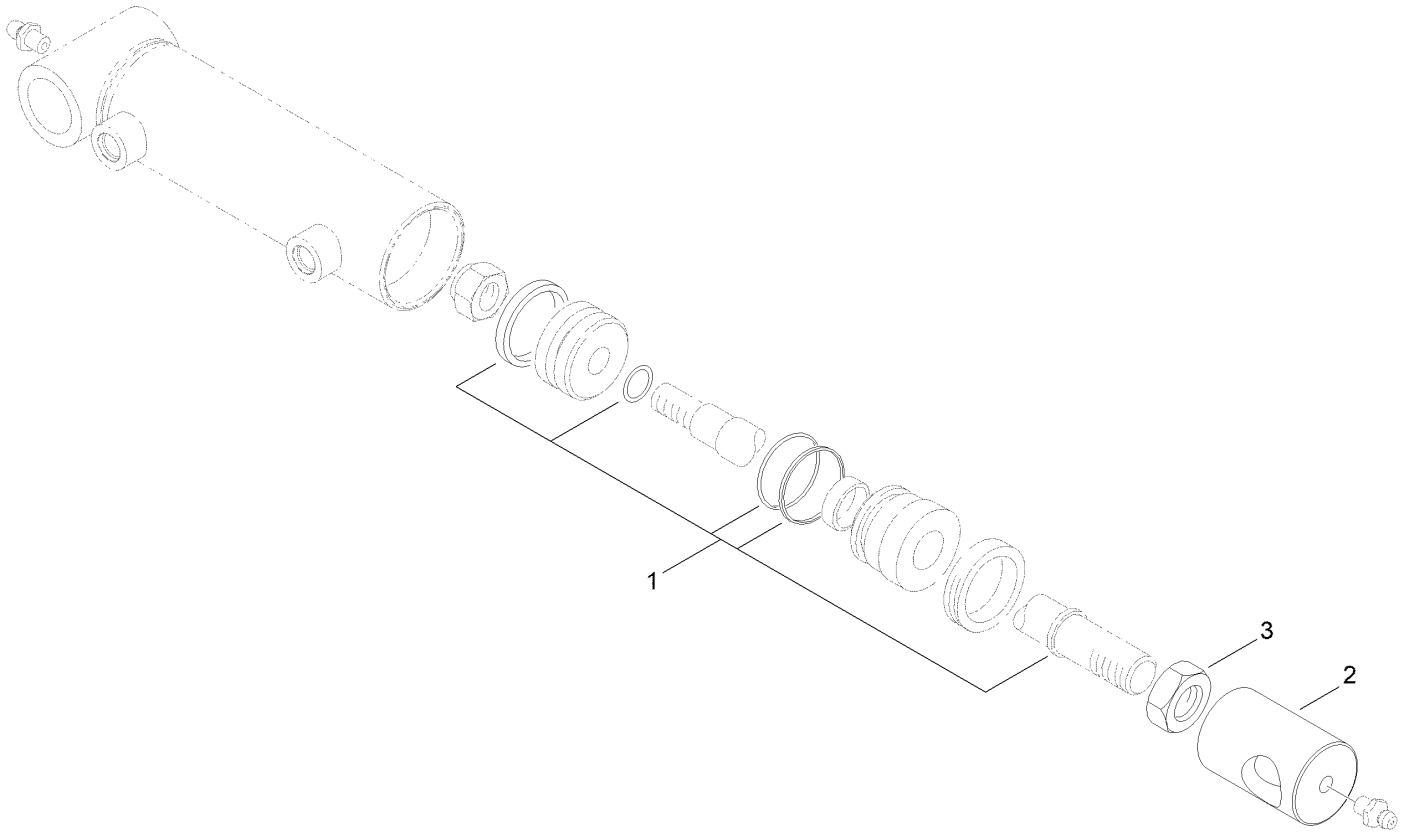
Rear Lift Arm and Carrier Frame Assembly



Rear Lift Arm and Carrier Frame Assembly (continued)

Ref.	Part Number	Qty.	Description
1	112-9916	1	HYD Cylinder ASM
2	3-6498	1	Washer-Thrust
3	95-8990	1	Shaft-Pivot, Rear
4	3220-9	1	Nut-Jam
5	86-1480	1	Washer
6	136-3415	1	Rear Liftarm ASM
6:2	69-6470	2	Bushing-Caster
6:3	302-5	1	Fitting-Grease
7	3234-27	1	Screw-HHF
8	75-7730	1	Washer-Thrust
10	100-4944	1	Shaft-Pivot, Cutting Unit
11	323-6	1	Screw-HH
12	323-4	1	Screw-HH
13	139-1726	1	Washer-Rebound
14	3-6781	1	Washer-Flat
15	283-71	1	Pin-Lynch
16	121-3616-03	1	Guard
17	322-12	2	Screw-HH
18	322-3	2	Screw-HH
19	32128-20	4	Nut-HF
20	32120-93	3	Ring-Retaining
21	95-8575	1	Pin-Clevis
22	104-4229	1	Rear Carrier Frame ASM
22:2	108-4000	2	Bushing
23	95-8936	1	Strip-Wear
24	3269-18	4	Rivet-Blind
25	302-60	1	Fitting-Grease
26	3256-23	4	Washer-Plain

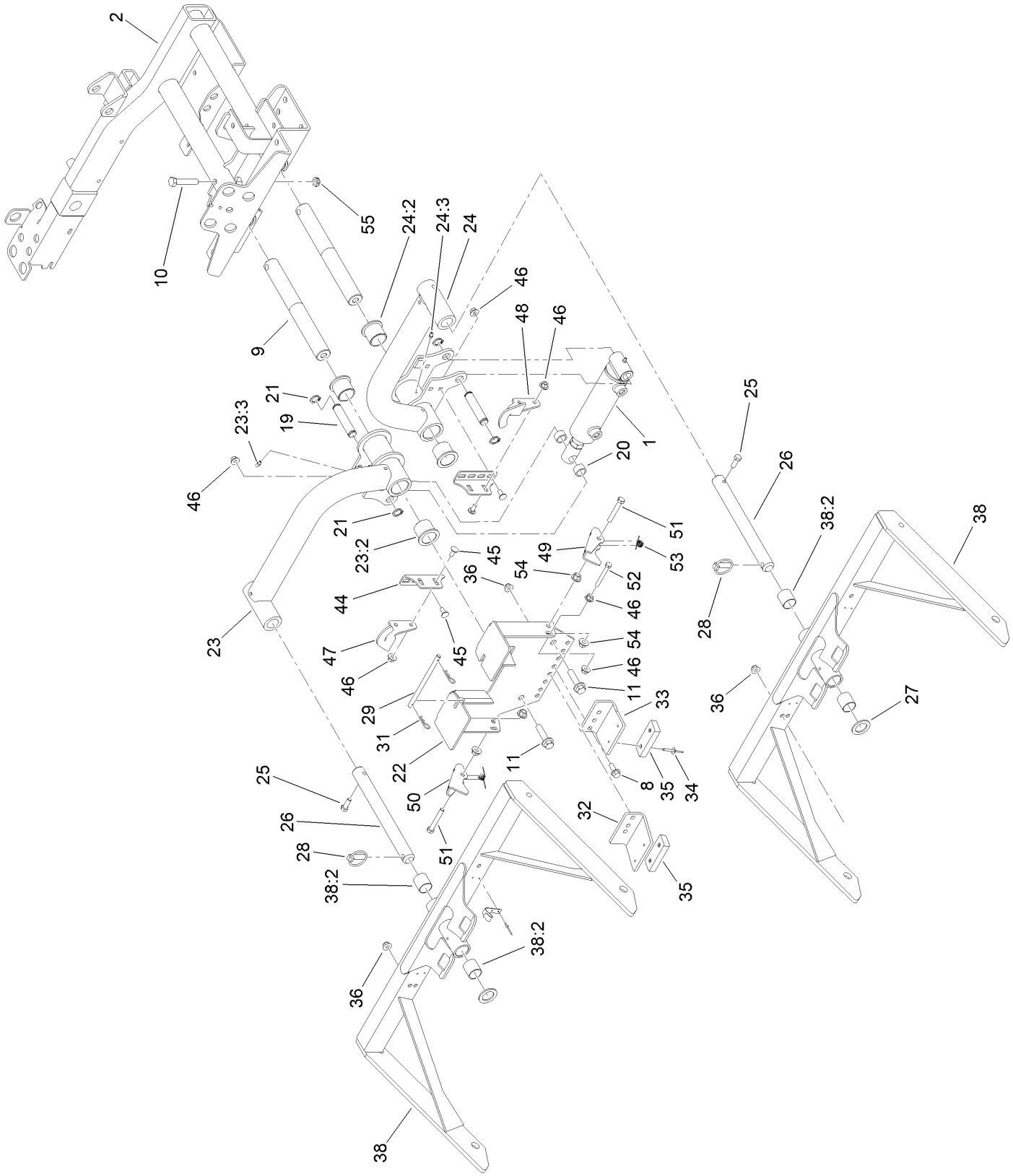
Hydraulic Cylinder Assembly No. 112-9916



Hydraulic Cylinder Assembly No. 112-9916 (continued)

Ref.	*Part Number*	*Qty.*	*Description*
1	115-3410	1	Seal Kit
2	108-9035	1	Clevis
3	3220-7	1	Nut-Jam

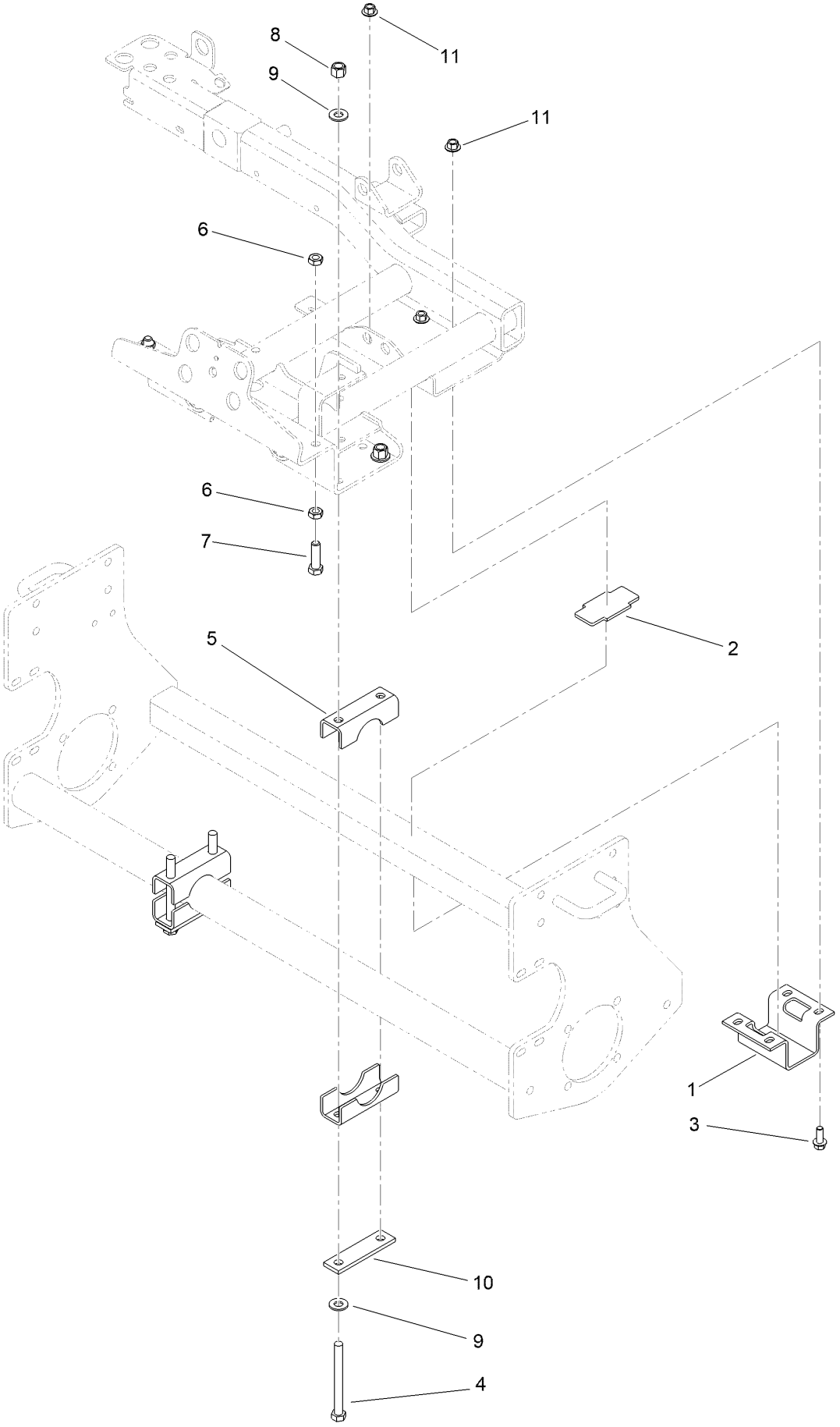
Front Lift Arm and Carrier Frame Assembly



Front Lift Arm and Carrier Frame Assembly (continued)

Ref.	Part Number	Qty.	Description
1	112-9916	1	HYD Cylinder ASM
2	100-4939-03	1	Carrier-Sidewinder
8	3234-11	4	Screw-HHF
9	95-8531	2	Shaft-Pivot, Liftarm
10	325-10	2	Screw-HH
11	3234-27	2	Screw-HHF
19	95-8575	2	Pin-Clevis
20	75-9590	2	Spacer-Cylinder
21	32120-93	4	Ring-Retaining
22	104-4820-03	1	Bracket-Stop, Carrier
23	136-3423	1	RH Liftarm ASM
23:2	69-6470	2	Bushing-Caster
23:3	302-5	1	Fitting-Grease
24	136-3421	1	LH Liftarm ASM 2/Bx
24:2	69-6470	2	Bushing-Caster
24:3	302-5	1	Fitting-Grease
25	323-6	2	Screw-HH
26	105-7560	2	Shaft-Cu Pivot
27	3-6781	2	Washer-Flat
28	283-71	2	Pin-Lynch
29	104-0472	1	Rod
31	3290-467	2	Pin-Hair
32	110-8793-03	1	Stop-Deck, RH
33	110-8794-03	1	Stop-Deck, LH
34	3269-11	4	Rivet-Pop
35	86-5350	2	Bumper-Rubber
36	119-4042	4	Nut-HF, NI
38	110-8787	2	Front Carrier Frame ASM
38:2	108-4000	2	Bushing
44	104-4828-03	2	Bracket-Actuator
45	137-3061	8	Bolt-CARR
46	32128-44	12	Nut
47	104-4826-03	1	Actuator-RH
48	104-4827-03	1	Actuator-LH
49	104-4819-03	1	Bracket-Pivot, LH
50	104-4825-03	1	Bracket-Pivot, RH
51	323-12	2	Screw-HH
52	322-12	2	Screw-HH
53	104-4821	2	Spring-Torsion
54	32128-43	4	Nut-Flange
55	3296-45	2	Nut-Hex

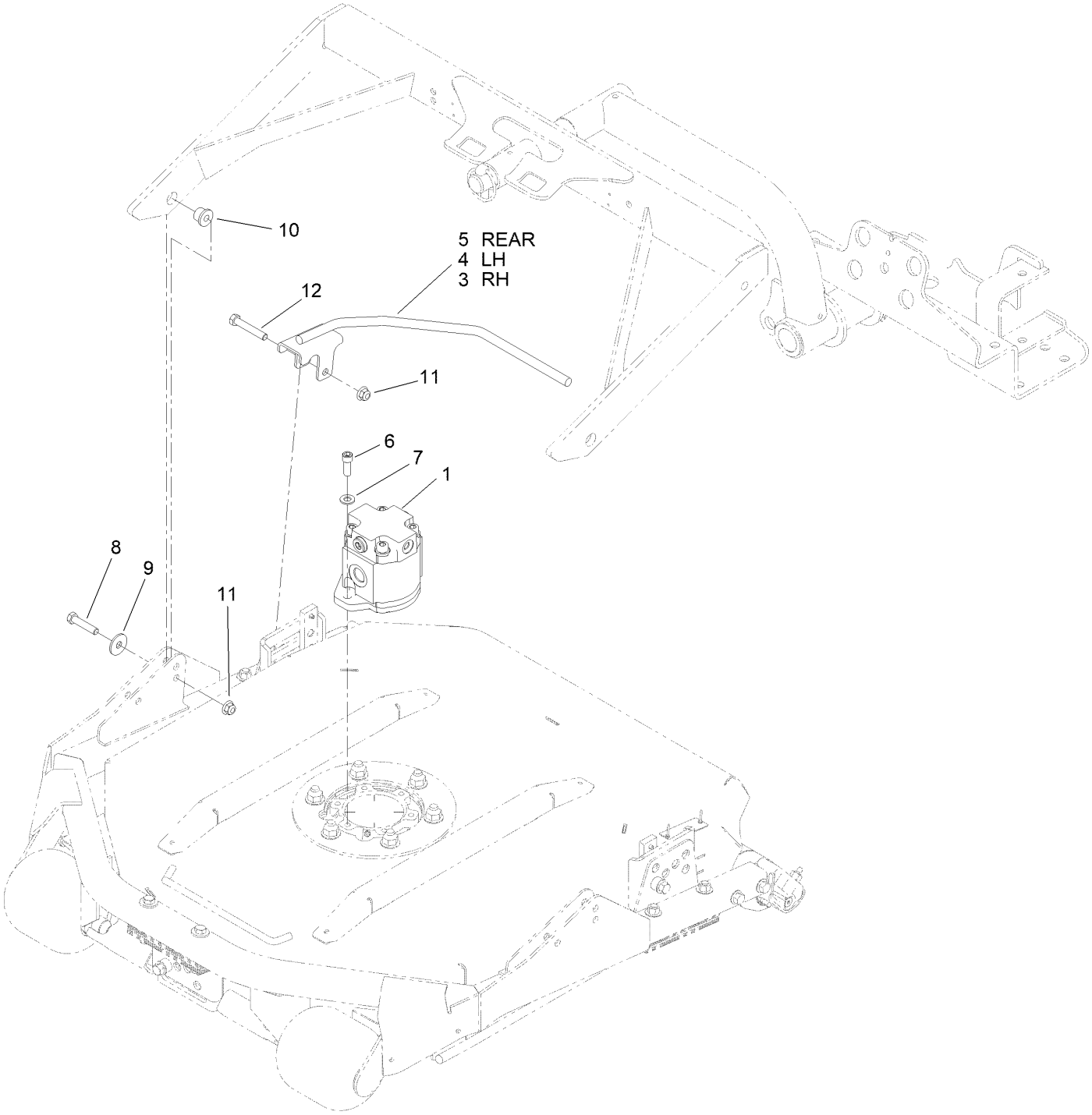
Sidewinder Carrier Mounting Assembly



Sidewinder Carrier Mounting Assembly (continued)

Ref.	Part Number	Qty.	Description
1	95-8904-0P	1	Bracket
2	95-8538	1	Slide-Plastic
3	3234-11	4	Screw-HHF
4	325-19	4	Screw-HH
5	95-8884	4	Clamp
6	3218-5	4	Nut-Jam
7	325-7	2	Screw-HH
8	3296-23	4	Nut-Lock, NI
9	87-7270	8	Washer-Thrust
10	99-3373	2	Bar-Support, Slide
11	32128-43	4	Nut-Flange

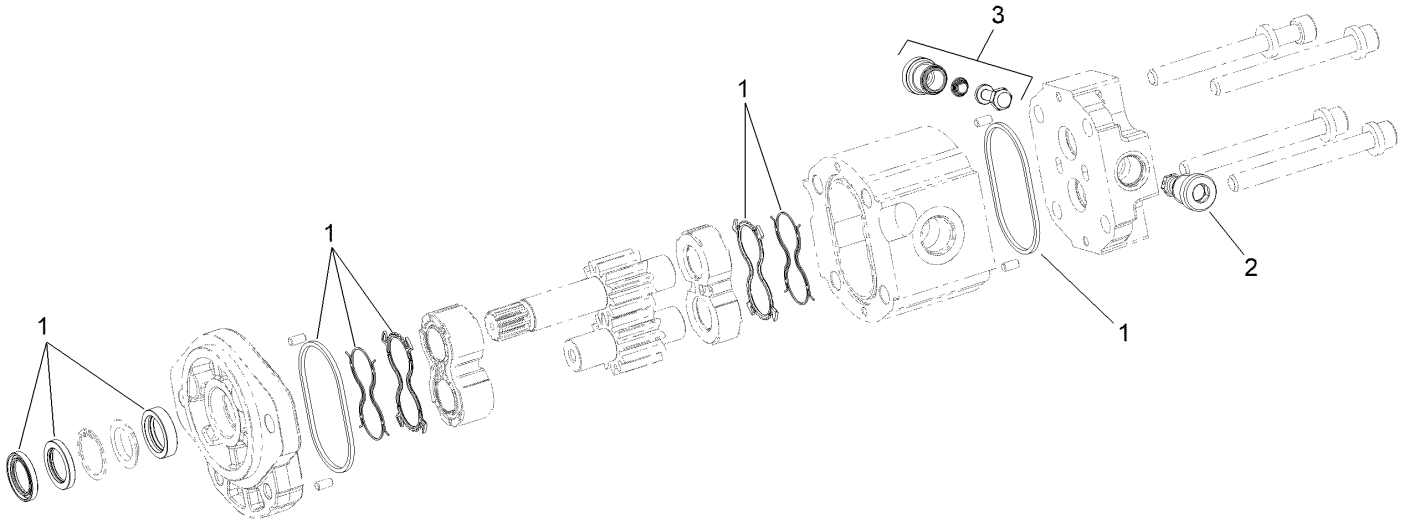
Hydraulic Motor and Foot Guard Assembly



Hydraulic Motor and Foot Guard Assembly (continued)

Ref.	Part Number	Qty.	Description
1	117-5141	3	HYD Motor ASM
3	112-9901-03	1	Guard-Foot, RH
4	112-9902-03	1	Guard-Foot, LH
5	112-9900-03	1	Guard-Foot
6	3274-7	6	Screw-HSH
7	3256-24	6	Washer-Plain
8	323-52	6	Screw-HH
9	93-8806	6	Washer-Hardened
10	95-8803	6	Bushing-Flange
11	119-4042	10	Nut-HF, NI
12	323-11	4	Screw-HH

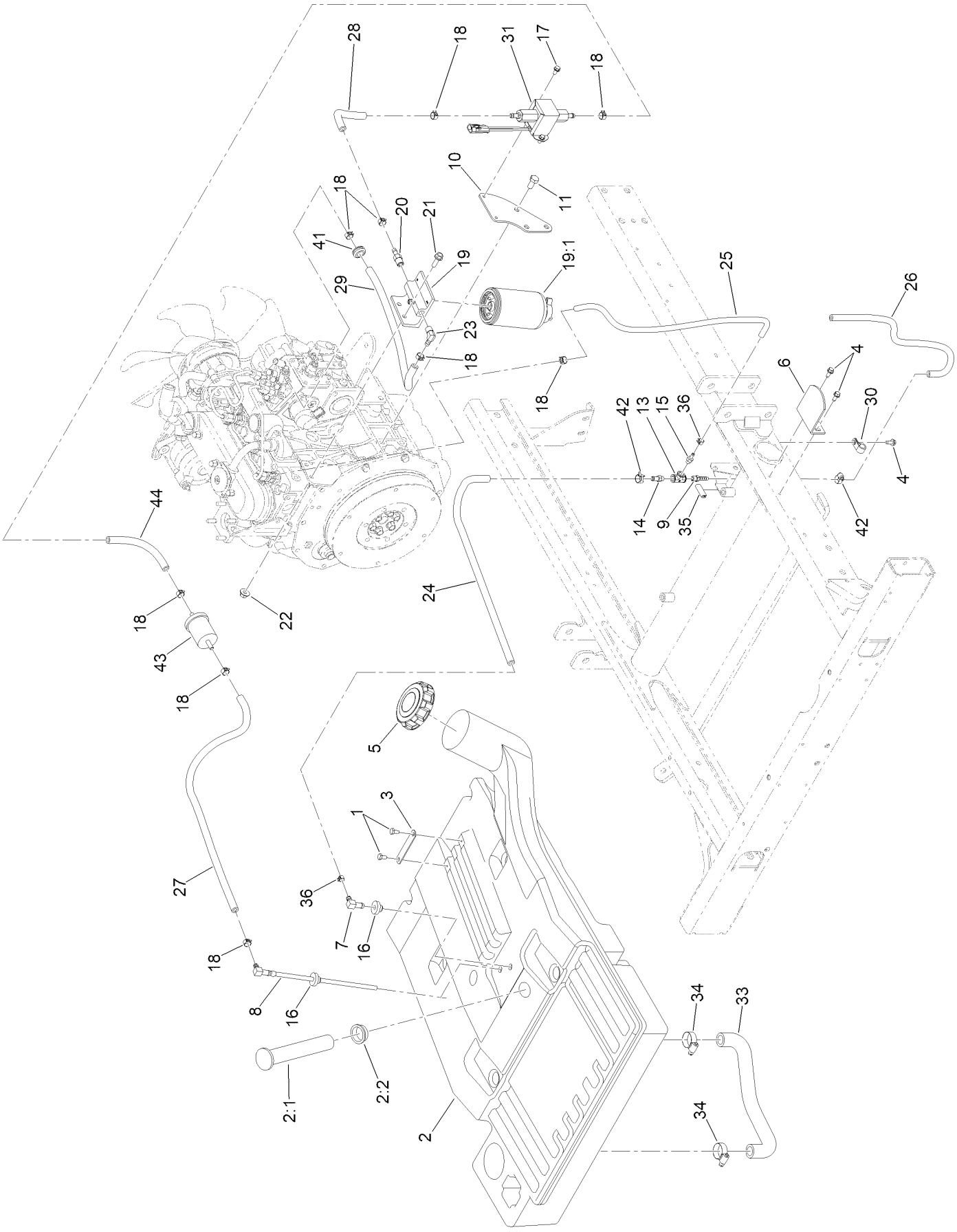
Gear Motor Assembly No. 117-5141



Gear Motor Assembly No. 117-5141 (continued)

Ref.	*Part Number*	*Qty.*	*Description*
1	161-7216	1	Seal Kit
2	107-7820	1	Valve-Relief
3	107-7821	1	Valve-Anticavitation

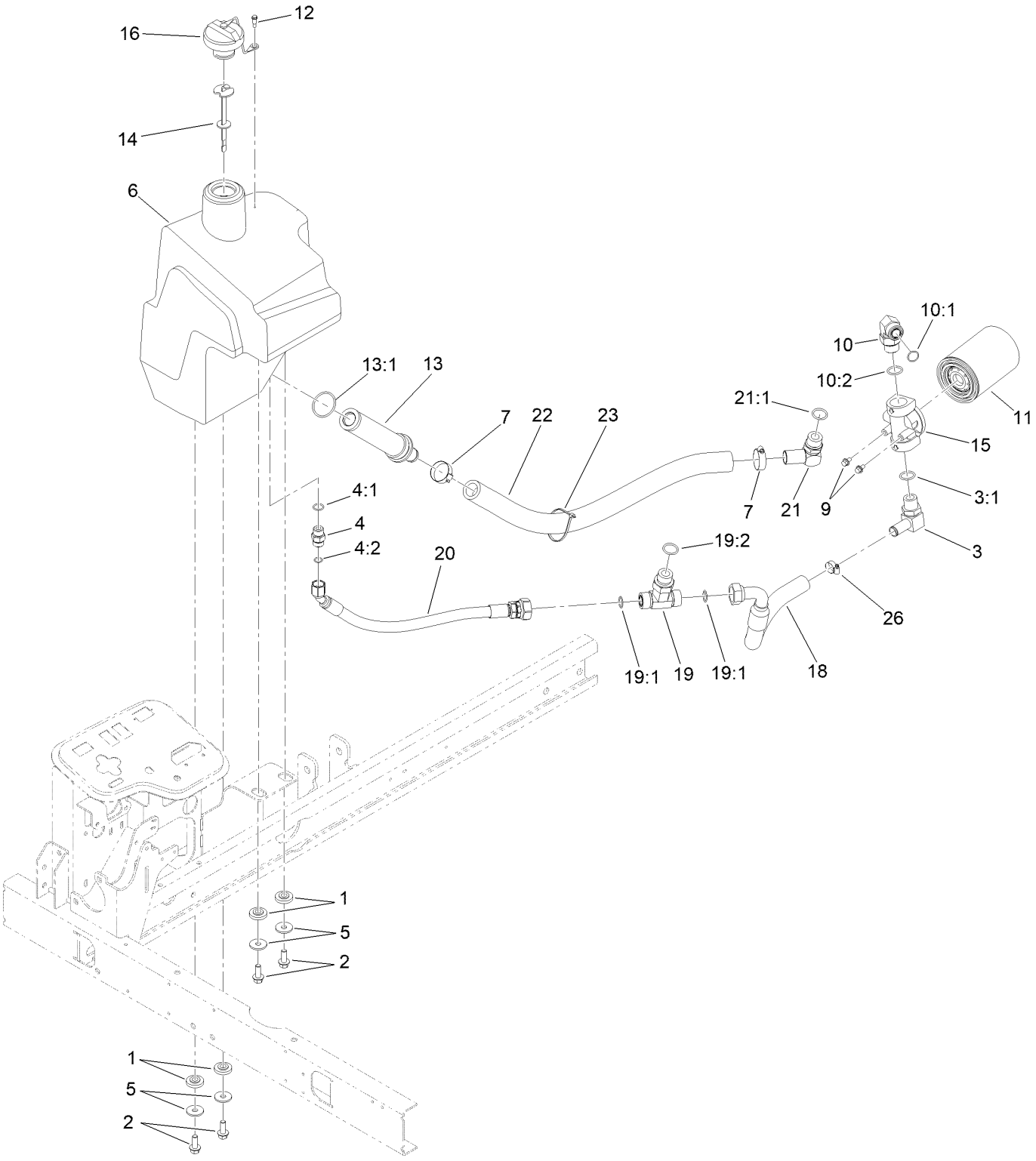
Fuel System Assembly



Fuel System Assembly (continued)

Ref.	Part Number	Qty.	Description
1	321-2	2	Screw-HH
2	105-7865	1	Tank-Fuel
2:1	95-8971	1	Gauge-Fuel
2:2	95-8972	1	Grommet
3	95-8881	1	Strap-Line, Fuel
4	32144-10	3	Screw-HWH
5	125-9171	1	Cap-Fuel
6	95-8968-03	1	Support-Tank, Fuel
7	46-6550	1	Fitting-Elbow, 90 DEG
8	110-9689	1	Pipe-Stand
9	304-73	1	Fitting-Straight
10	136-3818-0P	1	Plate-Fuel Pump
11	63-7790	3	Screw-Cap
13	354-20	1	Fitting-Tee
14	354-21	1	Fitting-Barbed
15	354-22	1	Fitting-Barbed
16	46-6560	2	Bushing
17	32144-4	2	Screw-HWH
18	92-2379	10	Clamp-Hose
19	110-9044	1	Separator-Filter
19:1	110-9049	1	Filter-Spin On, Fuel/Water
20	353-783	1	Fitting-STR
21	3234-17	2	Screw-HHF
22	32128-44	2	Nut
23	353-781	1	Fitting-HYD, 90
24	110-6187	1	Hose-Fuel
25	138-3151	1	Hose-Fuel
26	110-5701	1	Hose-Fuel
27	110-3257	1	Hose-Fuel
28	109-0310	1	Hose-Fuel
29	121-7852	1	Hose-Fuel
30	2412-73	1	Clamp-R
31	145-3160	1	Pump-Fuel, Electric
33	105-4094	1	Hose-Formed
34	2412-129	2	Clamp-Hose
35	110-8754	1	Trim
36	2412-80	2	Clamp-Hose
41	1-543296	1	Grommet
42	2412-98	1	Clamp-Hose
43	98-7612	1	Filter-Fuel
44	108-3280	1	Hose-Fuel

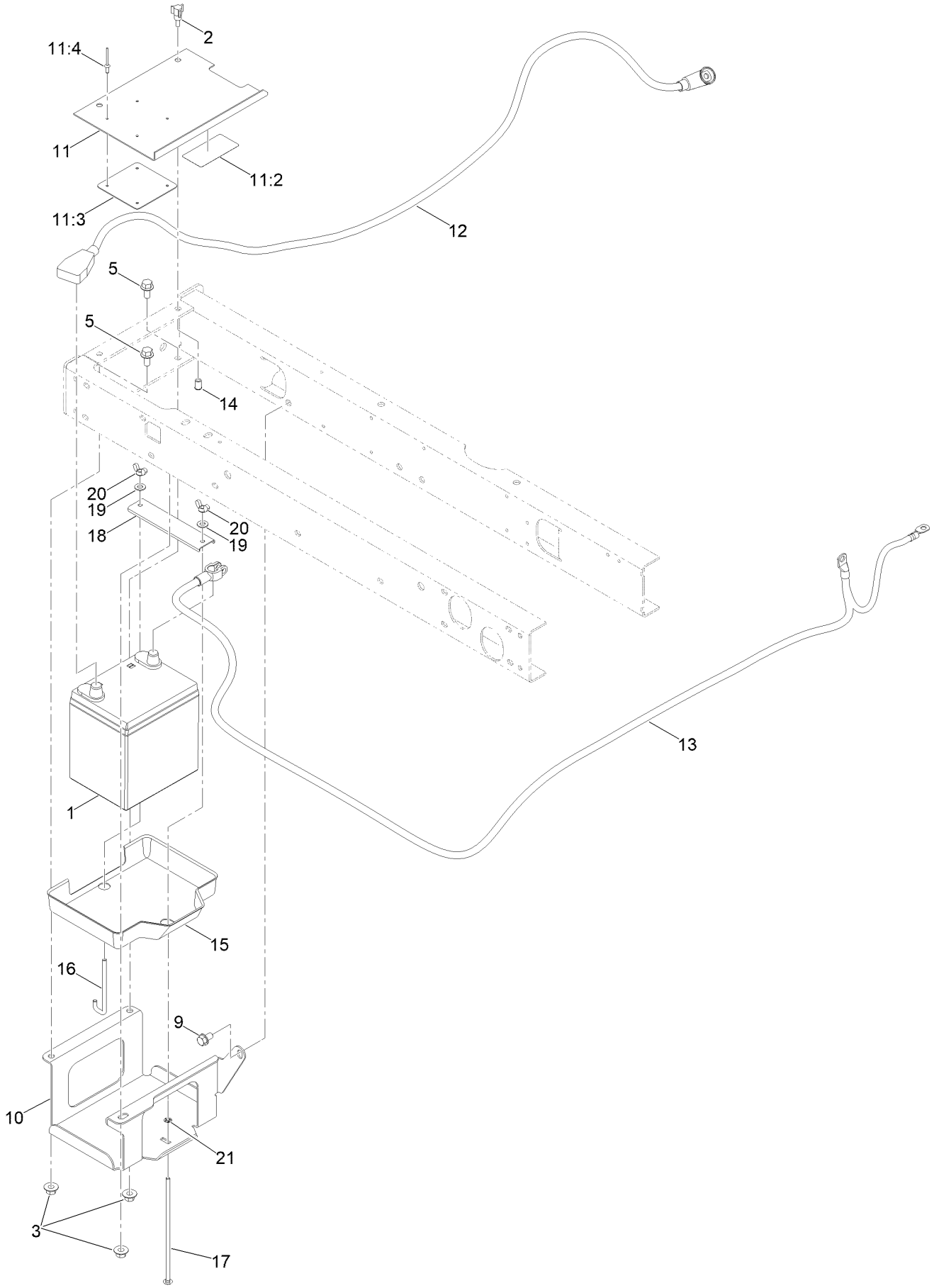
Hydraulic Tank Assembly



Hydraulic Tank Assembly (continued)

Ref.	Part Number	Qty.	Description
1	240-11	4	Bushing-Flange
2	3234-11	4	Screw-HHF
3	353-987	1	Fitting-Elbow, 90
3:1	237-81	1	O-Ring
4	100-4890	1	Fitting-Check
4:1	237-79	1	O-Ring
4:2	237-30	1	O-Ring
5	63-8410	4	Washer
6	104-4840	1	Tank-HYD
7	2412-34	2	Clamp-Hose
9	3234-13	2	Screw-HHF
10	340-142	1	Fitting-Elbow, 90 DEG
10:1	237-58	1	O-Ring
10:2	237-81	1	O-Ring
11	86-3010	1	Filter-Oil
12	57-5420	1	Screw-Shoulder
13	104-7546	1	Tank Strainer ASM
13:1	340-136	1	O-Ring
14	119-6968	1	Dipstick-Oil
15	92-5821	1	Head-Filter
16	93-7160	1	Cap-Oil, HYD
18	104-0486	1	Hose-HYD
19	104-4836	1	Fitting-Tee
19:1	237-58	2	O-Ring
19:2	237-81	1	O-Ring
20	104-0487	1	Hose-HYD
21	95-3502	1	Fitting-Elbow 90
21:1	237-81	1	O-Ring
22	104-5486	1	Hose
23	3290-379	1	Tie-Cable
26	2412-129	1	Clamp-Hose

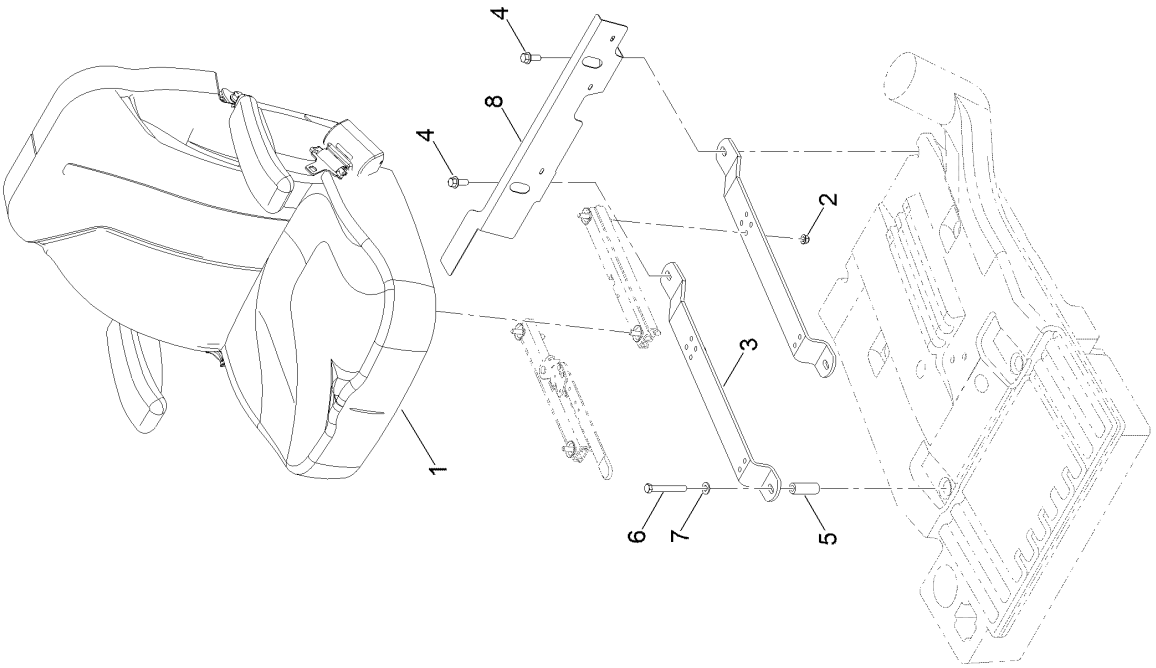
Battery Assembly

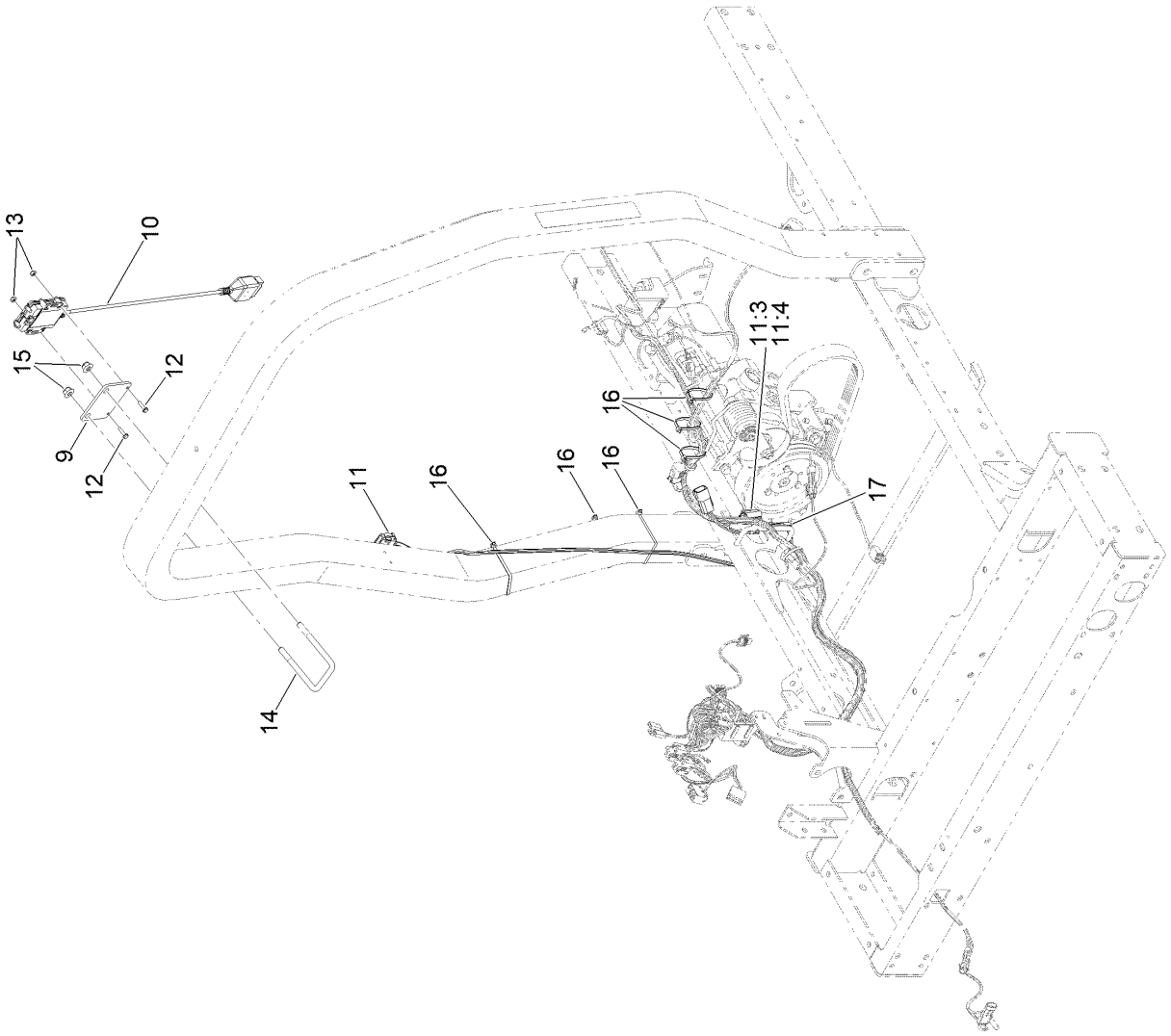


Battery Assembly (continued)

Ref.	Part Number	Qty.	Description
1	161-6891	1	Battery-Wet,12V,540 CCA
2	233-70	2	Knob-Star, Three
3	32128-43	3	Nut-Flange
5	3234-1	3	Screw-HHF
9	32144-15	1	Screw-HHFTF
10	163-3537-0P	1	Support-Battery
11	99-3602	1	Battery Cover ASM
11:2	93-7276	1	Decal-Danger
11:3	87-7620	1	Shield-Terminal, Battery
11:4	3269-27	4	Rivet-Snap
12	95-8853	1	Cable-Battery, Positive
13	95-8854	1	Cable-Battery, Negative
14	32148-6	2	Nut-Clinch
15	163-3526	1	Tray-Battery
16	163-3516	1	Post-Clamp, Battery
17	137-8106	1	Screw-CARR
18	163-3515-0P	1	Channel-Clamp, Battery
19	3256-23	2	Washer-Plain
20	32103-22	2	Nut-Wing
21	32115-15	1	Nut-Push

Seat Assembly

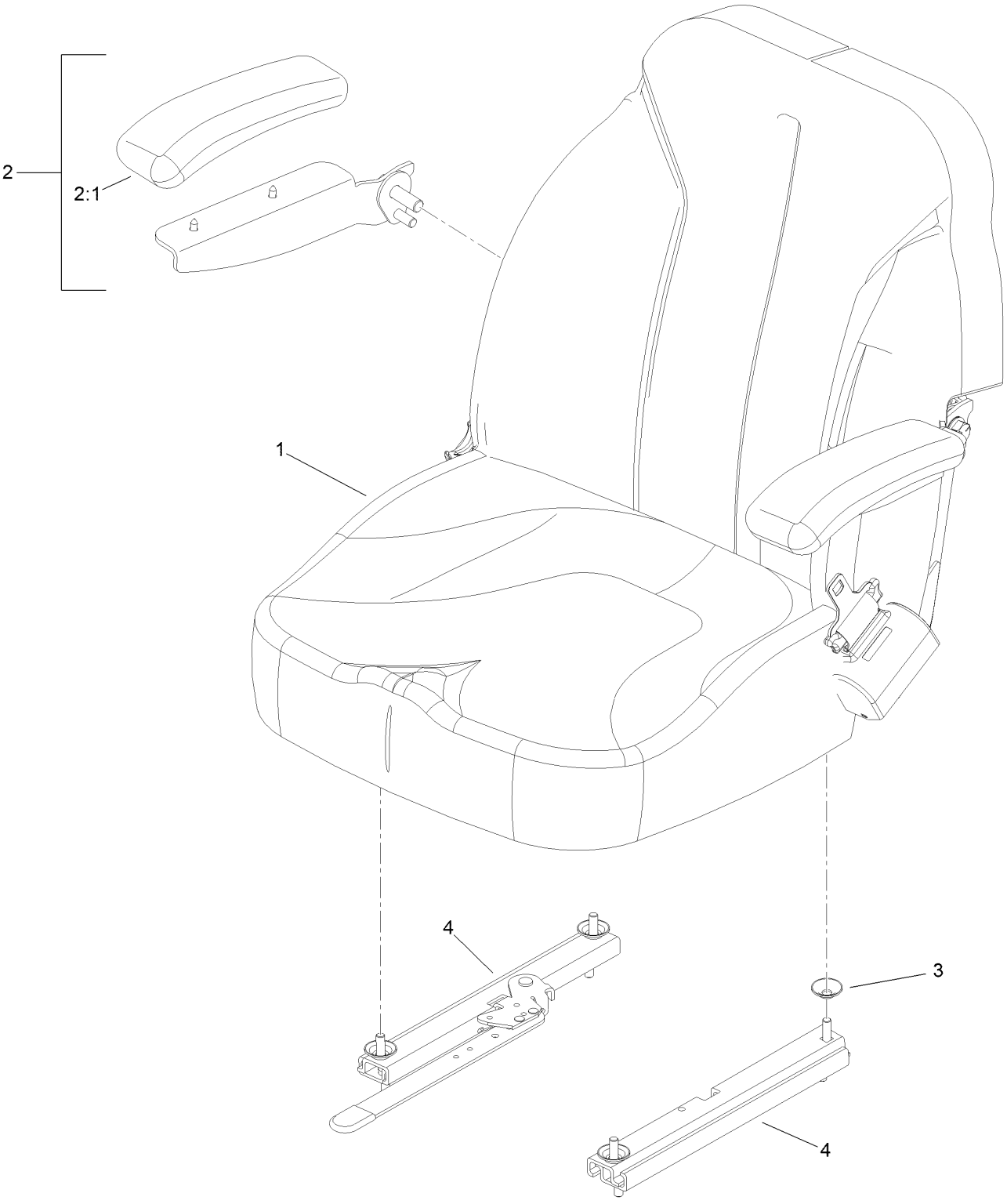




Seat Assembly (continued)

Ref.	Part Number	Qty.	Description
1	139-2679	1	Seat And Track ASM
2	119-4041	4	Nut-HF
3	121-3655-03	2	Strap-Support, Seat
4	3234-11	2	Screw-HHF
5	104-0466	2	Spacer
6	323-14	2	Screw-HH
7	3256-24	2	Washer-Plain
8	104-4833-03	1	Shield-Heat
9	161-8395-03	1	Bracket-Lmu
10	122-3876	1	Gateway-Telematics Lite
11	122-2161	1	Harness-Wire
11:3	121-8861	1	Fuse-Mini Blade, 2 Amp
11:4	32180-101	1	Cover-Fuse, Single
12	3290-126	2	Screw-HWH
13	3296-2	2	Nut-Lock, NI
14	138-8991	1	U-Bolt-Sq
15	119-4042	2	Nut-HF, NI
16	3290-379	6	Tie-Cable
17	3290-378	5	Tie-Cable

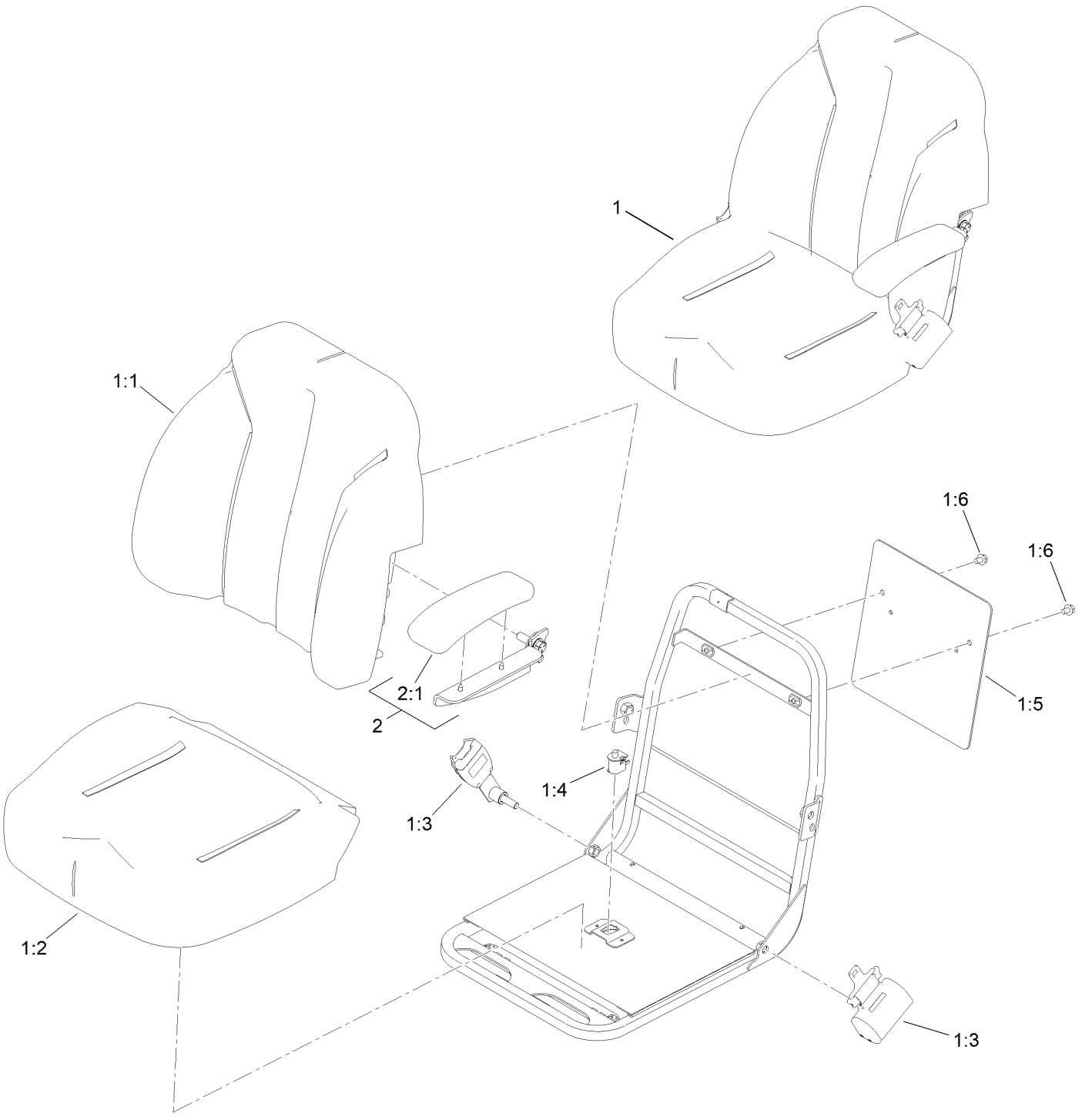
Seat and Track Assembly No. 139-2679



Seat and Track Assembly No. 139-2679 (continued)

Ref.	Part Number	Qty.	Description
1	139-2700	1	Seat ASM
2	121-3658	1	RH Arm Rest Kit
2:1	110-4163	1	Cushion-Rest, Arm
3	136-9002	4	Spacer-Mounting
4	126-2177	1	Track-Seat

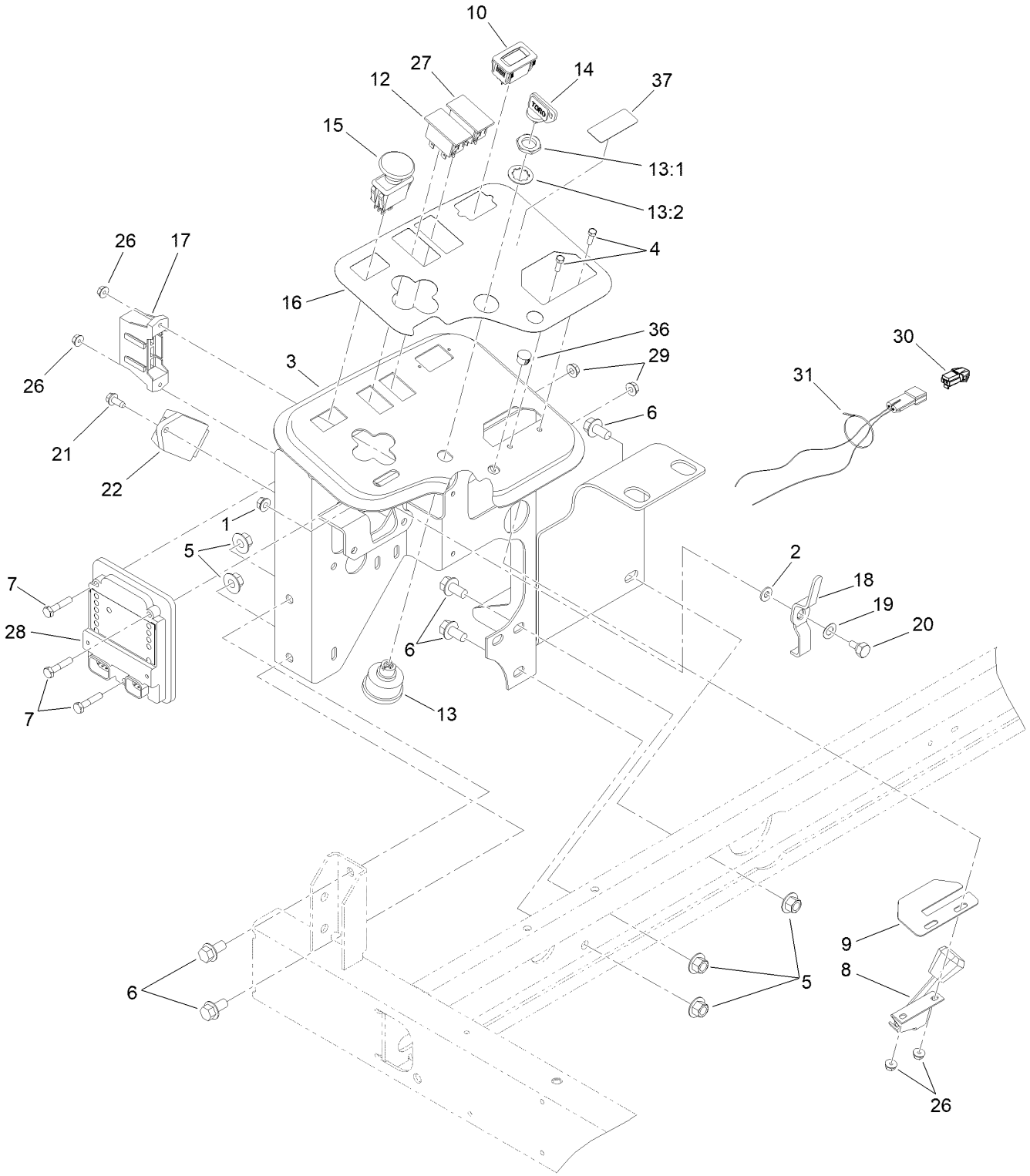
Seat Assembly No. 139-2700



Seat Assembly No. 139-2700 (continued)

Ref.	Part Number	Qty.	Description
1	139-2680	1	Seat ASM
1:1	145-0083	1	Cover-Seat, Back
1:2	145-0084	1	Cover-Seat, Bottom
1:3	139-2707	1	Seat Belt Kit
1:4	82-2190	1	Switch-Bail
1:5	139-2701	1	Plate-Decal
1:6	3234-30	2	Screw-HHF
2	121-3660	1	LH Arm Rest Kit
2:1	110-4163	1	Cushion-Rest, Arm

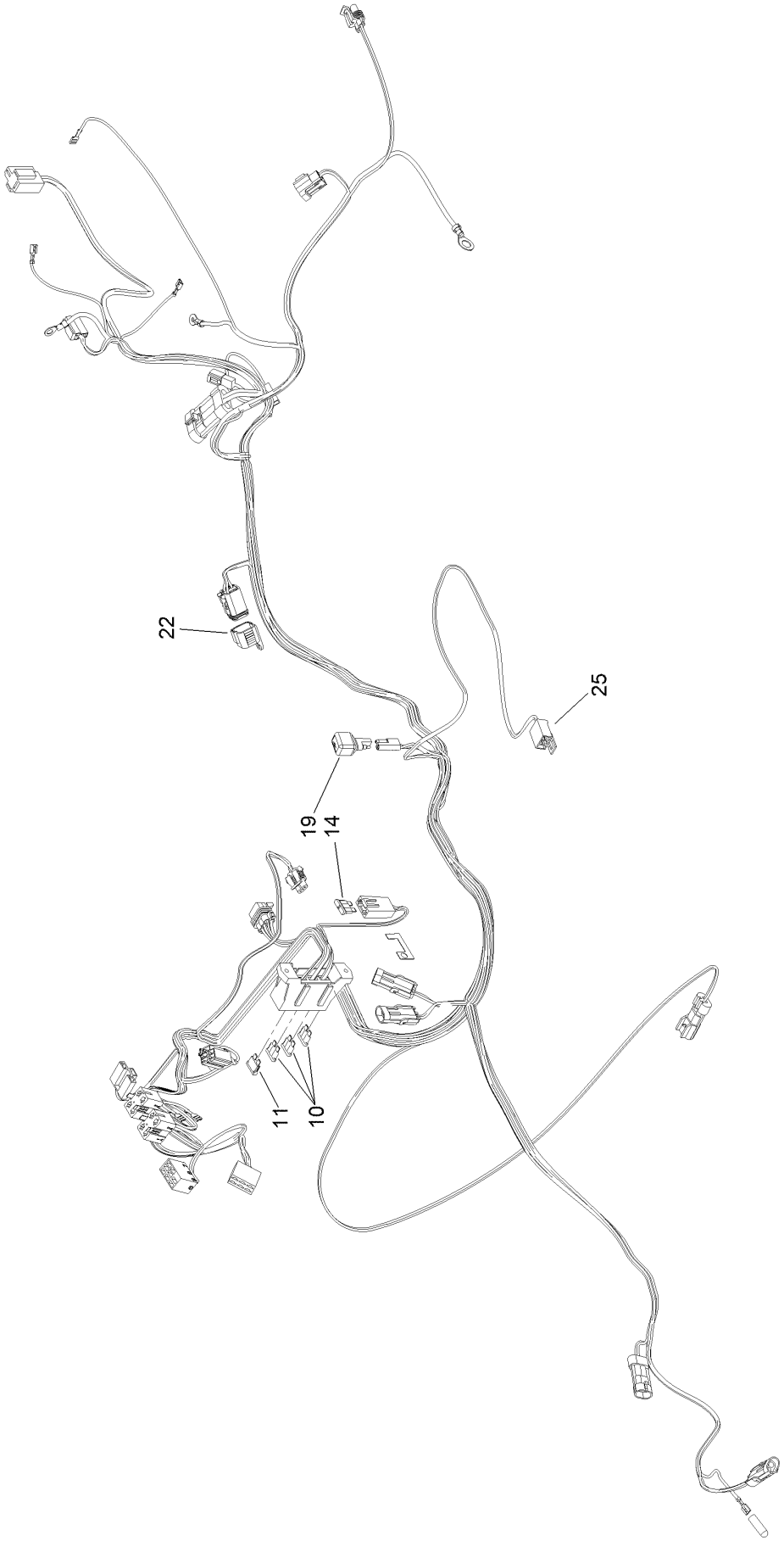
Control Panel Assembly



Control Panel Assembly (continued)

Ref.	Part Number	Qty.	Description
1	32128-32	1	Nut-HHF
2	3256-22	1	Washer-Flat
3	136-3681-03	1	Panel-Control
4	3290-134	4	Screw
5	32128-43	5	Nut-Flange
6	3234-1	5	Screw-HHF
7	321-8	3	Screw-HH
8	138-1224	1	Cable-Throttle
9	104-0421	1	Plate-Stop, Throttle
10	120-2244	1	Hourmeter
12	100-8070	1	Lamp-Warning
13	104-2541	1	Ignition Switch ASM
13:1	218-461	1	Nut-HH
13:2	3254-5	1	Washer-Lock
14	63-8360	1	Key-Ignition
15	93-9999	1	Switch-PTO
16	136-3678	1	Decal-Console
17	122-2738	1	Harness-Wire, Main
18	99-3401	1	Lever-Lock
19	3290-477	1	Washer-Curved
20	63-3410	1	Screw-Shoulder
21	32144-10	1	Screw-HWH
22	98-7611	1	Controller-Glow
26	3290-148	4	Nut-HF
27	100-8071	1	Lamp-Warning
28	106-9277	1	Module-Control, Standard
29	32128-33	3	Nut-HF
30	104-4875	1	Harness-Wire, Jumper
31	3290-379	1	Tie-Cable
36	2410-64	1	Plug-Dome
37	121-3598	1	Decal-Danger, 17 Degree

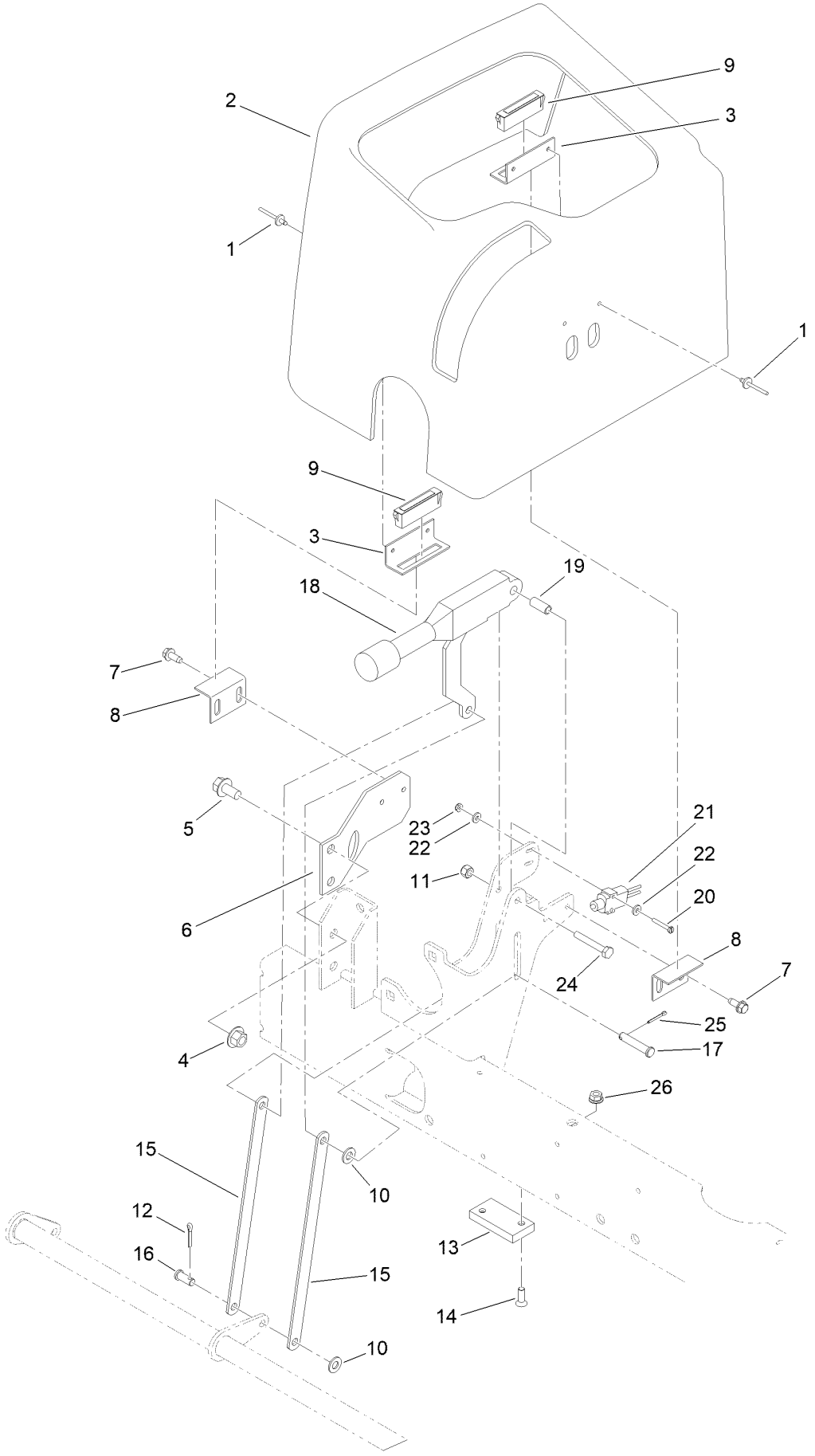
Wire Harness Assembly No. 122-2738



Wire Harness Assembly No. 122-2738 (continued)

Ref.	Part Number	Qty.	Description
10	218-578	3	Fuse-Blade, 10 Amp
11	109355	1	Fuse-Blade, 15 Amp
14	94-6710	1	Fuse-2 Amp
19	100-4918	1	Diode
22	32180-156	1	Cap-Plug, 6 Way
25	122-2708	1	Harness-Wire, Seat Switch

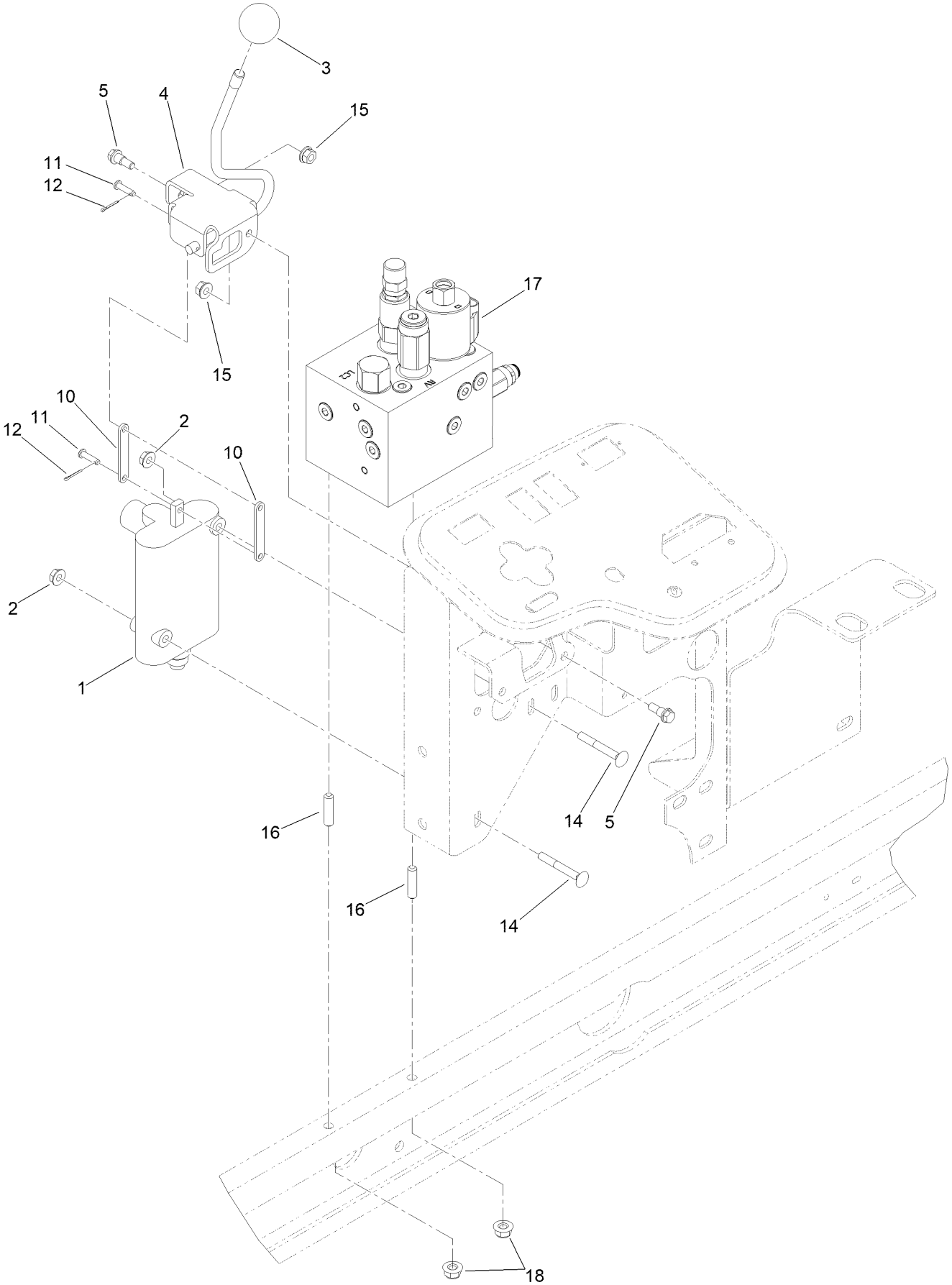
Parking Brake and Dash Cover Assembly



Parking Brake and Dash Cover Assembly (continued)

Ref.	Part Number	Qty.	Description
1	3269-5	4	Rivet-Pop
2	95-8707	1	Cover-Dash
3	95-8763	2	Bracket-Hold Down, Cover
4	32128-43	2	Nut-Flange
5	3234-1	2	Screw-HHF
6	95-8764-0P	1	Support-Magnet
7	32144-10	4	Screw-HWH
8	95-8765	2	Bracket-Strike, Magnet
9	58-4250	2	Catch-Magnetic
10	3256-23	2	Washer-Plain
11	3296-42	1	Nut-Lock, NI
12	3272-10	1	Pin-Cotter
13	95-8684	1	Pad-Bumper
14	3289-4	2	Screw-FH
15	104-4628	2	Link-Brake, Parking
16	283-62	1	Pin-Clevis
17	94-3829	1	Pin-Clevis
18	104-4817	1	Lever-Brake
19	87-4710	1	Spacer-Brake, Parking
20	32105-9	2	Screw-HH
21	95-8900	1	Switch
22	3256-21	4	Washer-Flat
23	3296-9	2	Nut-Hex
24	321-10	1	Screw-HH
25	3272-6	1	Pin-Cotter
26	104-7201	2	Nut-HF, NI

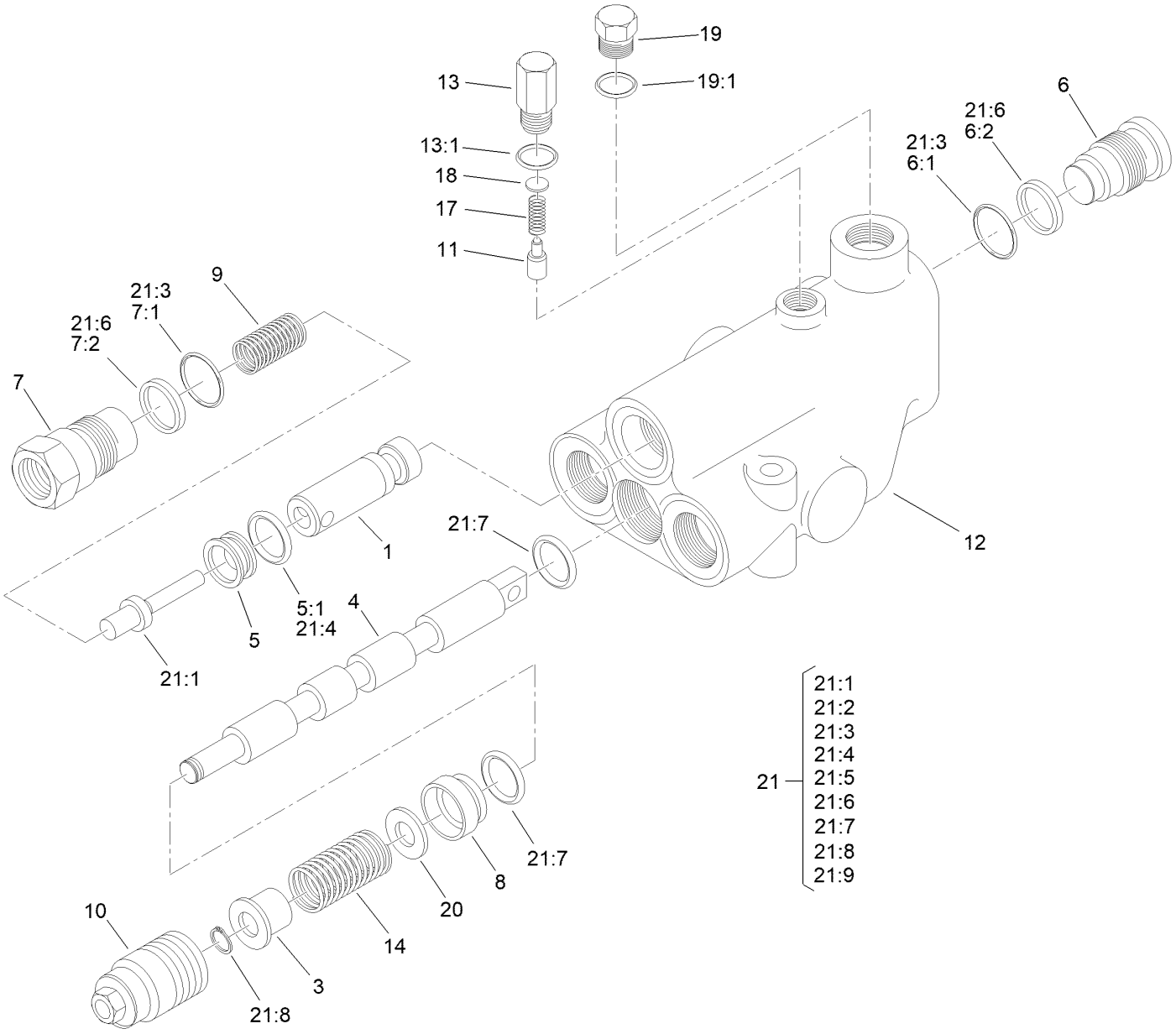
Control Valve Assembly



Control Valve Assembly (continued)

Ref.	Part Number	Qty.	Description
1	95-8689	1	Single Spool Control Valve ASM
2	32128-33	2	Nut-HF
3	233-42	1	Knob
4	95-8692	1	Lever ASM
5	42-3560	2	Bolt-Shoulder
10	95-8634	2	Link
11	283-16	2	Pin-Clevis
12	3272-1	2	Pin-Cotter
14	3230-33	2	Screw-CARR
15	32128-32	2	Nut-HHF
16	104-0430	2	Stud
17	145-5279	1	Manifold ASM
18	119-4041	2	Nut-HF

Single Spool Control Valve Assembly No. 95-8689

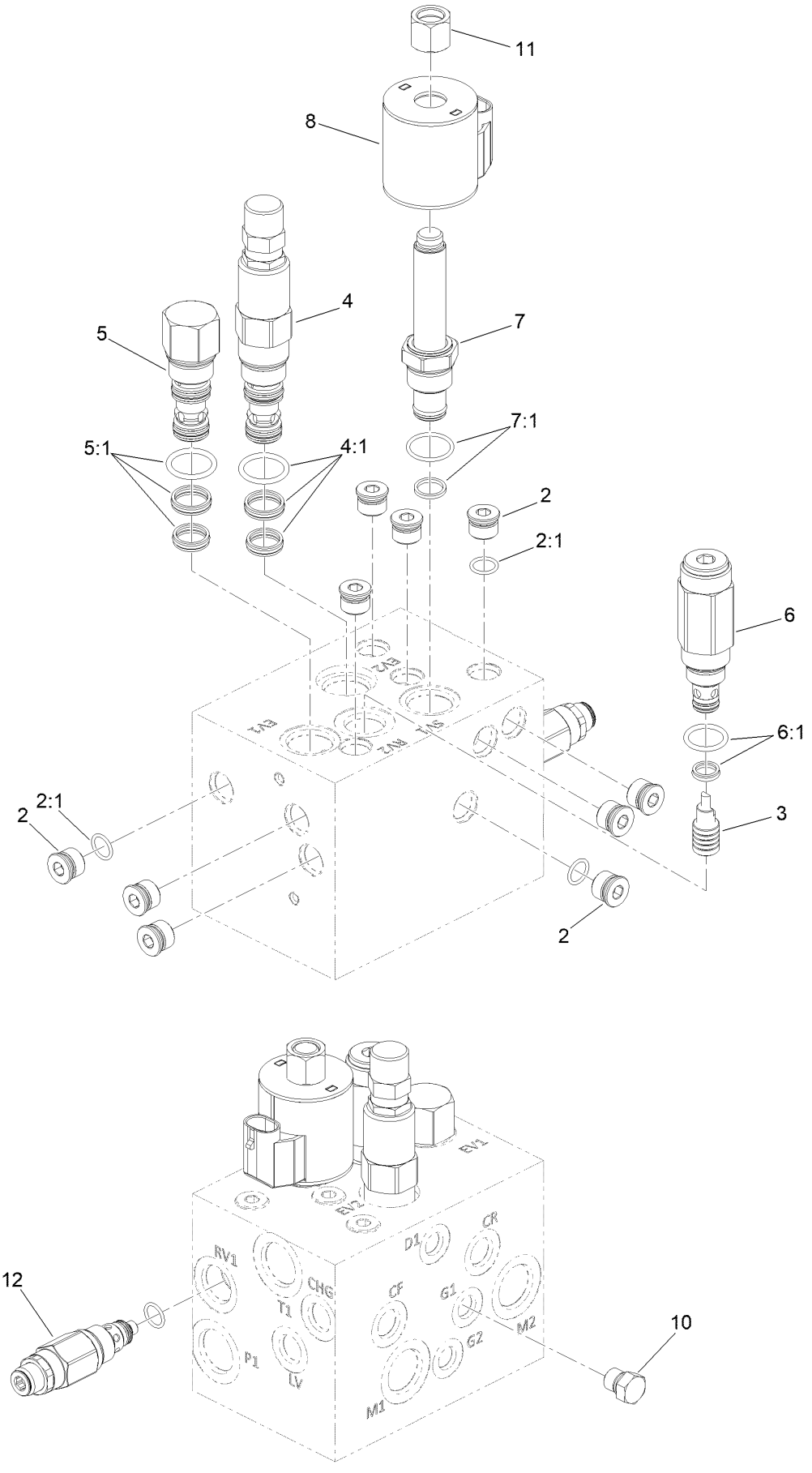


Single Spool Control Valve Assembly No. 95-8689 (continued)

Ref.	Part Number	Qty.	Description
1	99-3586	1	Plunger
3	58-6310	1	Spacer
4		1	Spool ●
5	58-6330	1	Seat
5:1	58-6340	1	O-Ring
6	58-6350	1	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	69-1800	1	Plug ASM
7:1	60-5720	1	O-Ring
7:2	58-6370	1	Washer
8	58-6400	1	Bushing
9	69-1810	1	Spring
10	58-6420	1	Cap
11	99-3585	1	Detent-Plunger
12		1	Body ●
13	99-3588	1	Plug ASM
13:1	60-6410	1	O-Ring
14	99-3531	1	Spring
17	99-3587	1	Spring
18	60-6450	1	Disc
19	353-989	1	Plug-Hex, Hollow
19:1	237-42	1	O-Ring
20	65-2770	1	Washer
21	99-3589	1	Seal Kit
21:1	58-6290	2	Poppet
21:2	58-6320	1	Wiper
21:3	60-5720	2	O-Ring
21:4	58-6340	2	O-Ring
21:5	93-6314	1	O-Ring
21:6	58-6370	2	Washer
21:7	58-6450	2	O-Ring
21:8	58-6460	1	Ring-Retaining
21:9		1	O-Ring ●

● Not serviced separately

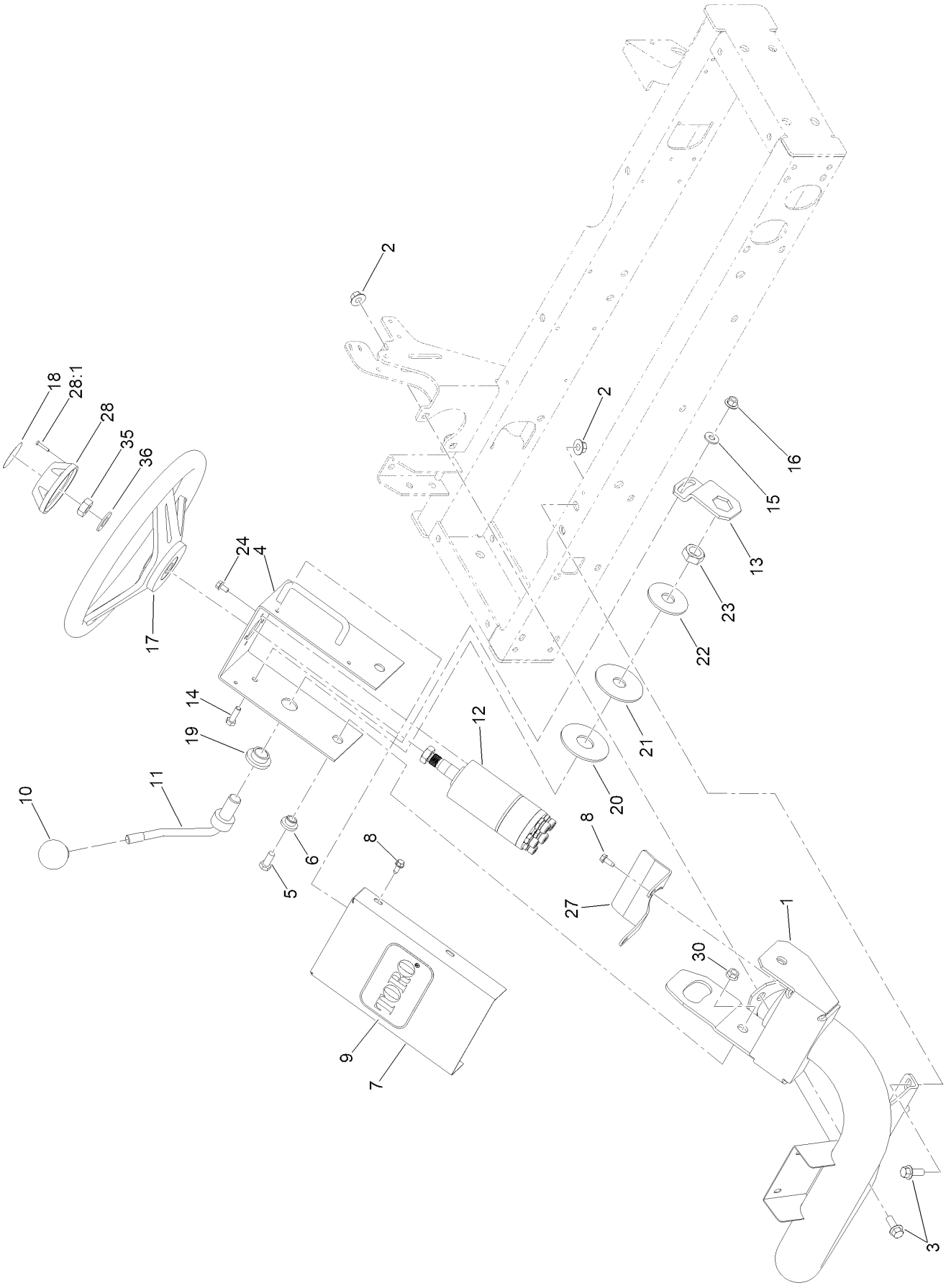
Hydraulic Manifold Assembly No. 145-5279



Hydraulic Manifold Assembly No. 145-5279 (continued)

Ref.	Part Number	Qty.	Description
2	353-512	9	Plug
2:1	237-78	1	O-Ring
3	105-9157	1	Piston-Pilot
4	119-2011	1	Valve-Logic, Adjustable
4:1	119-2159	1	Seal Kit
5	105-9153	1	Element-Logic, Vented
5:1	119-2159	1	Seal Kit
6	112-5259	1	Valve-Relief
6:1	105-9156	1	Seal Kit
7	105-9158	1	Valve-Solenoid, N.O.
7:1	105-9159	1	Seal Kit
8	110-6344	1	Coil-12V, DC
10	117-0115	1	Plug
11	130-8180	1	Nut-Coil (9/16-24 Unef-2B)
12	147-2453	1	Valve-Relief

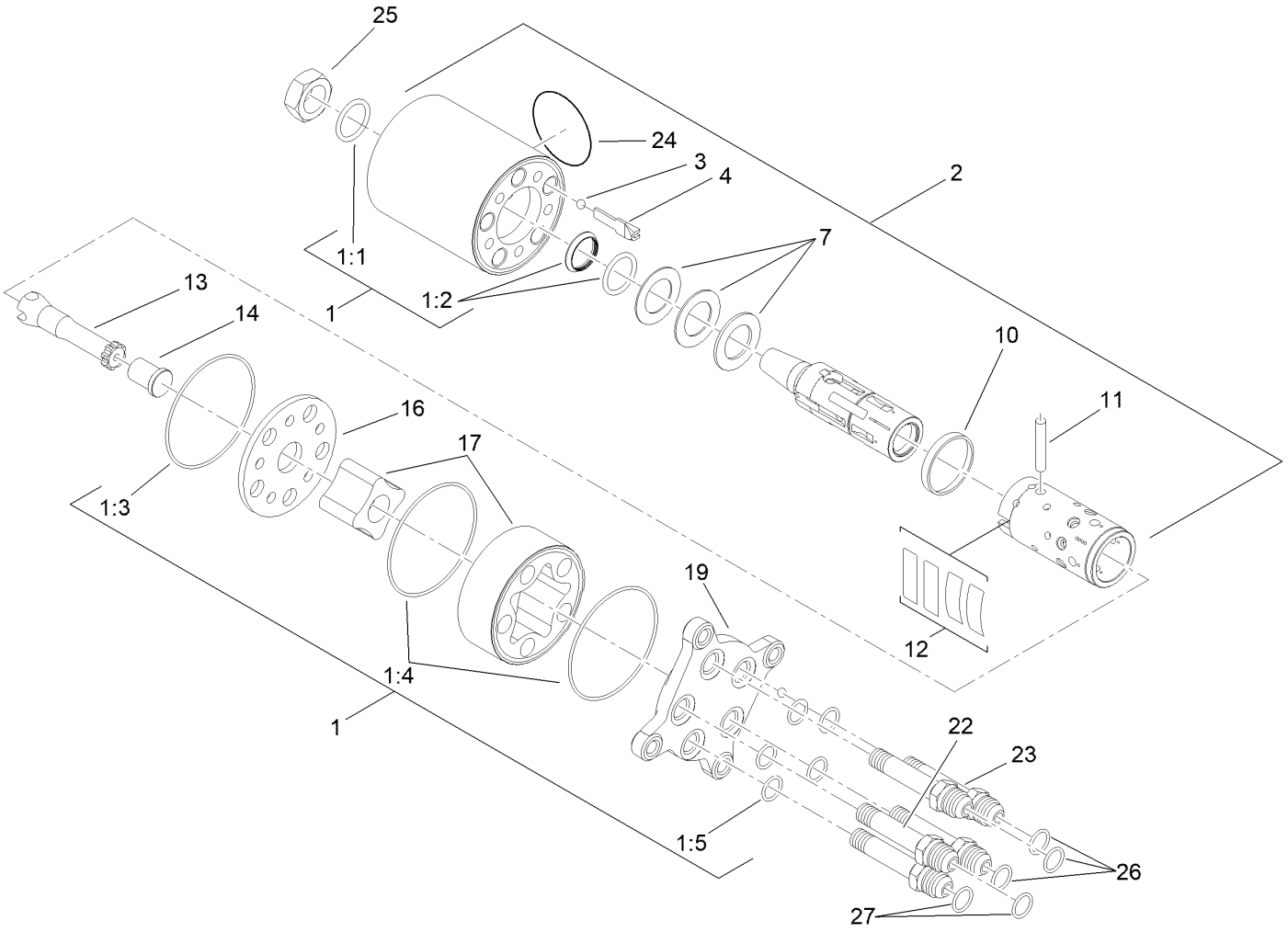
Steering Column Assembly



Steering Column Assembly (continued)

Ref.	Part Number	Qty.	Description
1	105-8536-01	1	Arm-Steering
2	32128-43	4	Nut-Flange
3	3234-11	4	Screw-HHF
4	120-2190-01	1	Bracket-Valve
5	323-5	2	Screw-HH
6	93-5988	2	Hub-Pivot
7	95-8794-01	1	Cover-Valve, Steering
8	32144-10	5	Screw-HWH
9	67-1300	1	Decal
10	233-48	1	Knob
11	95-8798-03	1	Lever-Steering
12	121-7856	1	Steering Valve ASM
13	80-2880	1	Bracket-Tilt
14	322-5	1	Screw-HH
15	3256-3	1	Washer-Flat
16	32128-44	1	Nut
17	145-0051	1	Steering Wheel
18	68-5370	1	Decal
19	99-3502	1	Boss
20	31-0390	1	Disc-Friction
21	82-9010	1	Disc-Friction
22	80-2930	1	Washer-Flat
23	3218-7	1	Nut-Jam
24	33103-012	4	Screw-HHF
27	99-3405-01	1	Shield-Steering
28	68-5140	1	Cap-Wheel, Steering
28:1	32144-21	1	Screw
30	32128-21	2	Nut-HF Lock
35	3296-33	1	Nut-Lock, NI
36	3256-27	1	Washer-Flat

Steering Valve Assembly No. 121-7856

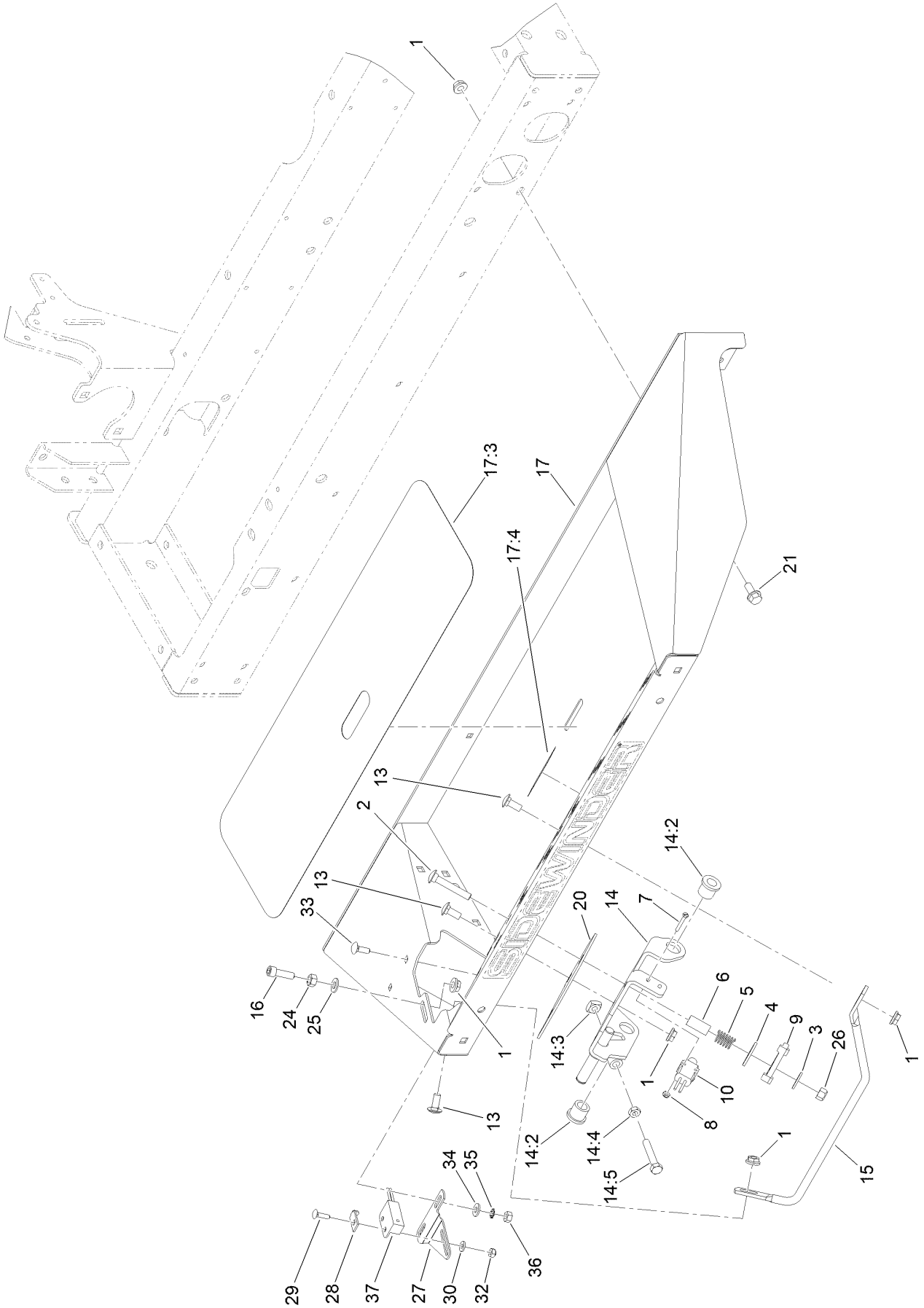


Steering Valve Assembly No. 121-7856 (continued)

Ref.	Part Number	Qty.	Description
1	106-6716	1	Seal Kit
1:1		1	Ring-Seal, Dust ●
1:2		1	Seal-Shaft ●
1:3		1	O-Ring ●
1:4		2	O-Ring ●
1:5		5	O-Ring ●
2		1	Housing ●
3		1	Ball ●
4		1	Stop-Ball ●
7		1	Bearing ASM ●
10		1	Ring ●
11		1	Pin-Cross ●
12		1	Springs ●
13		1	Shaft ●
14		1	Spacer ●
16		1	Plate-Distributor ●
17		1	Gearwheel Set ●
19		1	Cover-End ●
22		1	Screw-Special ●
23		4	Screw-Special ●
24		1	Plate-Name ●
25	3296-33	1	Nut-Lock, NI
26	237-22	3	O-Ring
27	237-21	2	O-Ring

● Not serviced separately

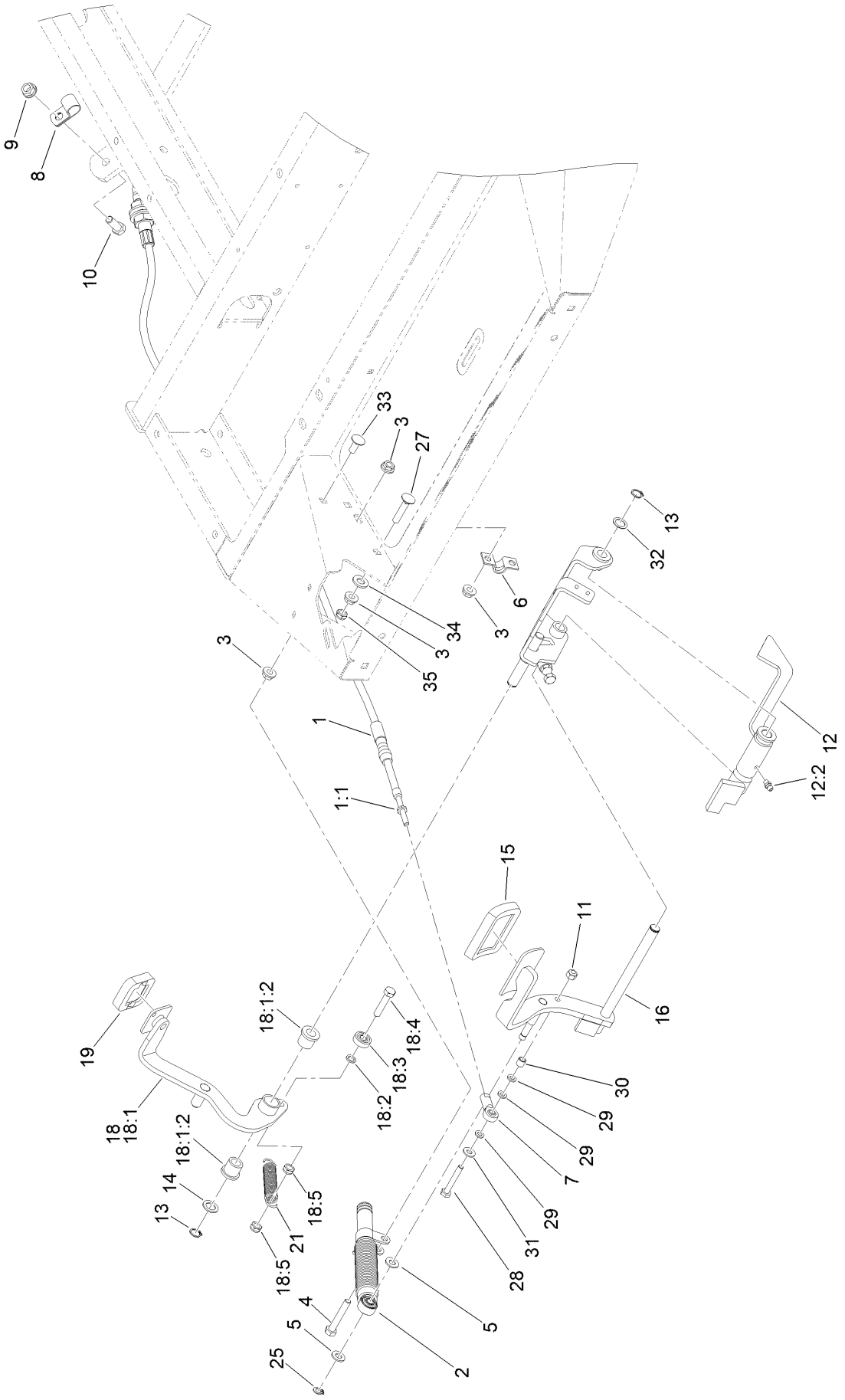
Front Platform Assembly



Front Platform Assembly (continued)

Ref.	Part Number	Qty.	Description
1	32128-20	15	Nut-HF
2	3230-6	1	Bolt-CARR
3	3256-3	1	Washer-Flat
4	87-7270	1	Washer-Thrust
5	65-9940	1	Spring
6	95-8866	1	Tube-Arm, Rocker
7	32105-9	2	Screw-HH
8	3296-9	2	Nut-Hex
9	99-3593	1	Arm-Rocker
10	95-8900	1	Switch
13	137-3061	4	Bolt-CARR
14	140-6253	1	Traction Bracket ASM
14:2	256-243	2	Bearing-Flange
14:3	99-3565	1	Nut-Square
14:4	3218-2	1	Nut-Hex Jam
14:5	322-41	1	Bolt-Hex,TAP
15	95-8893	1	Bar-Deflector
16	3274-22	1	Screw-HSH
17	106-4154	1	Floorplate ASM
17:3	99-3478	1	Tread-Foot
17:4	99-3444	1	Decal-Mow/Transport
20	106-2661-0P	1	Plate-Support
21	3234-5	10	Screw-HHF
24	3217-6	1	Nut-Hex
25	3256-23	1	Washer-Plain
26	3296-29	1	Nut-Lock, NI
27	100-4871	1	Bracket-Switch, Neutral
28	100-4872	1	Plate-Switch, Neutral
29	3229-20	1	Screw-CARR
30	3256-14	1	Washer-Flat
32	3296-2	1	Nut-Lock, NI
33	3229-1	2	Screw-CARR
34	3256-22	2	Washer-Flat
35	3255-7	2	Washer-Lock/EXT
36	3217-5	2	Nut-Hex
37	100-1270	1	Sensor-Switch, Proximity

Traction Pedal Assembly

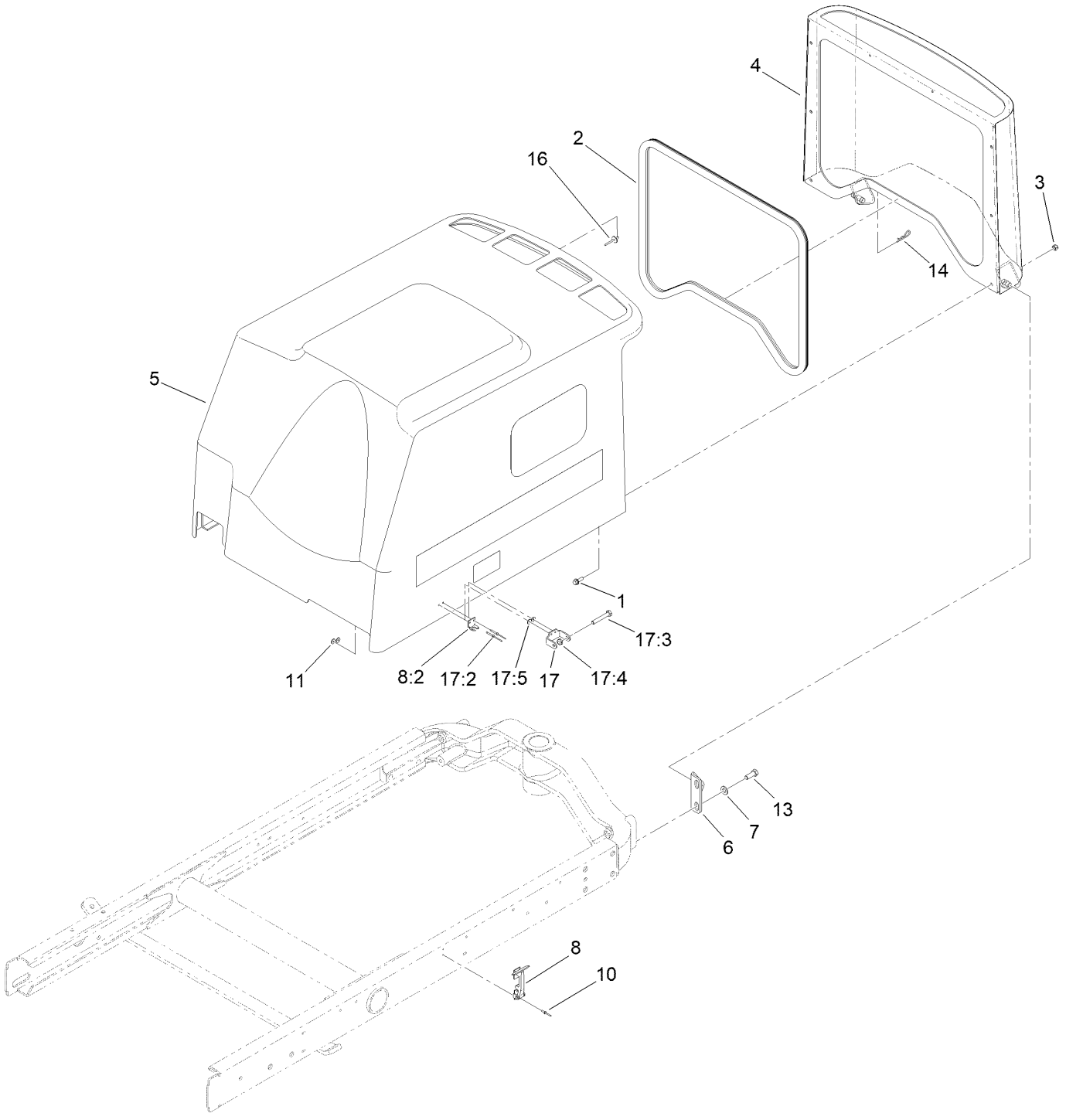


Traction Pedal Assembly (continued)

Ref.	Part Number	Qty.	Description
1	100-4815	1	Cable-Control, Traction
1:1	3220-1	2	Nut-Jam
2	140-6248	1	Damper
3	32128-20	5	Nut-HF
4	322-10	1	Screw-HH
5	3256-23	2	Washer-Plain
6	93-2092	1	Clamp-Cable
7	2411-41	1	Rod End-Ball Joint
8	2412-41	1	Clamp-R
9	3290-357	1	Nut-HSF
10	323-6	1	Screw-HH
11	3296-42	1	Nut-Lock, NI
12	140-6255	1	Detent Slider ASM
12:2	302-5	1	Fitting-Grease
13	32151-84	2	Ring-Shaft, EXT
14	41-8440	1	Washer
15	74-9100	1	Pad-Pedal, Forward
16	140-6263	1	Traction Pedal ASM
18	140-6251	1	Reverse Pedal ASM
18:1		1	Reverse Pedal ASM W/Bushings ●
18:1:2	256-243	2	Bearing-Flange
18:2	75-5470	1	Spacer-Bearing
18:3	251-259	1	Bearing-Ball
18:4	322-7	1	Screw-HH
18:5	3296-47	2	Nut-Lock,NI
19	74-9110	1	Pad-Pedal, Reverse
21	99-3476	1	Spring-Extension
25	32151-3	1	Ring-Grip
27	3230-27	1	Screw-CARR
28	321-10	1	Screw-HH
29	33093-00	3	Washer-Flat
30	99-3545	1	Spacer
31	3256-22	1	Washer-Flat
32	73-0040	4	Washer-Thrust
33	137-3061	2	Bolt-CARR
34	3256-24	1	Washer-Plain
35	3296-47	1	Nut-Lock,NI

● Not serviced separately

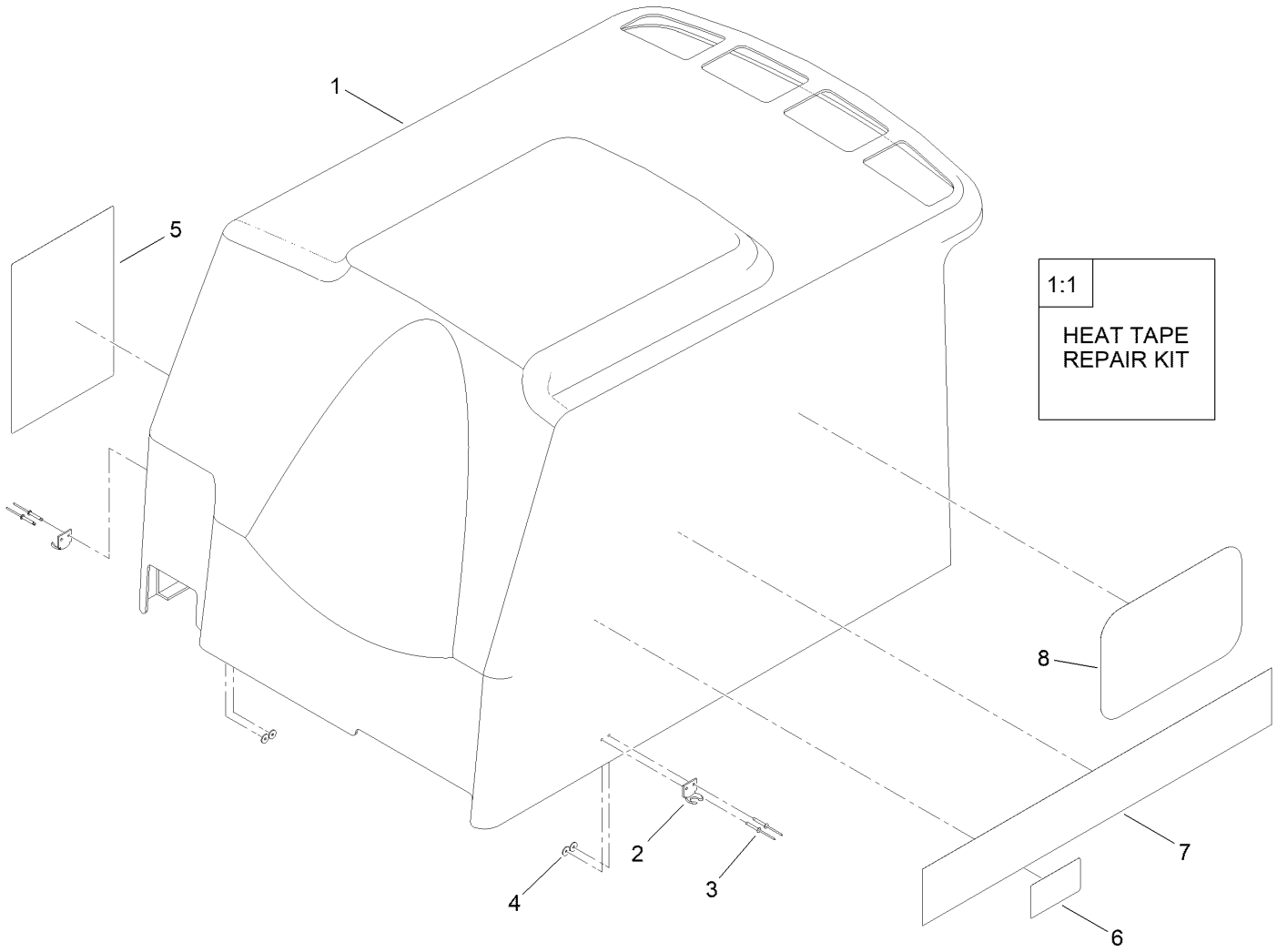
Hood Assembly



Hood Assembly (continued)

Ref.	Part Number	Qty.	Description
1	3234-4	6	Screw-HHF
2	100-4932	1	Trim-Seal
3	3296-42	6	Nut-Lock, NI
4	104-4853-03	1	Screen-Hood
5	147-6050	1	Hood ASM W/Decals
6	95-8728	2	Bracket-Pivot, Hood
7	3256-24	4	Washer-Plain
8	59-9740	2	Flex Draw Latch ASM
8:2	249-40	1	Keeper
10	3290-55	4	Rivet-Pop
11	3269-10	4	Washer-Back
13	323-6	4	Screw-HH
14	3290-467	1	Pin-Hair
16	3269-21	2	Rivet-Pop
17	119-2004	1	CE Latch Kit
17:2	107-0333	2	Rivet-Pop
17:3	322-10	1	Screw-HH
17:4	3296-47	1	Nut-Lock,NI
17:5	3269-10	2	Washer-Back

Hood Assembly No. 147-6050



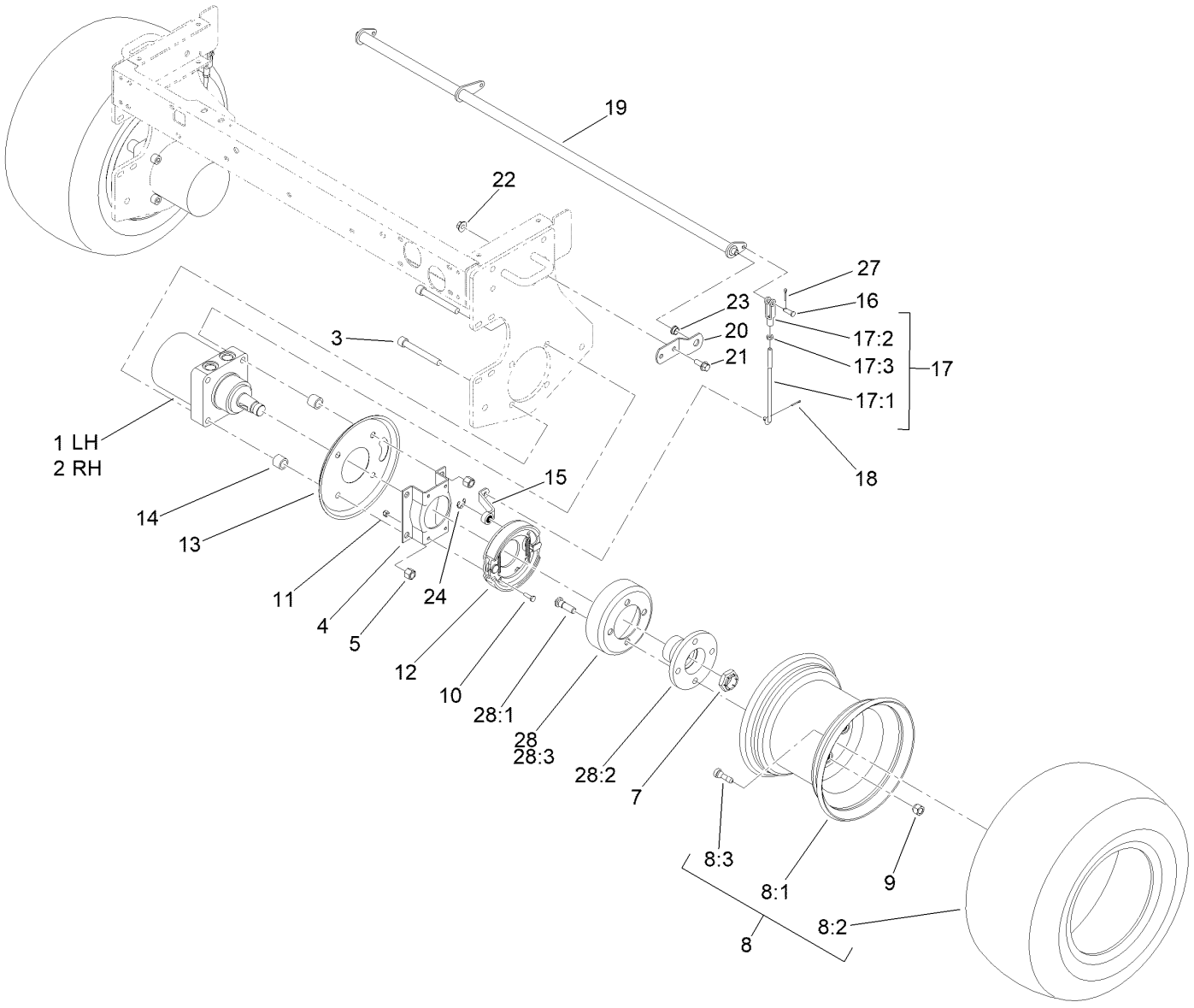
Hood Assembly No. 147-6050 (continued)

Ref.	Part Number	Qty.	Description
1		1	Hood ■
1:1	106-8115	1	Heat Tape Repair Kit ●
2	249-40	2	Keeper
3	107-0333	4	Rivet-Pop
4	3269-10	4	Washer-Back
5	136-3713	1	Decal-Service
6	117-3270	1	Decal-Danger
7	108-9007	2	Decal-Hood
8	66-6140	2	Decal

● Not illustrated

■ Not serviced separately

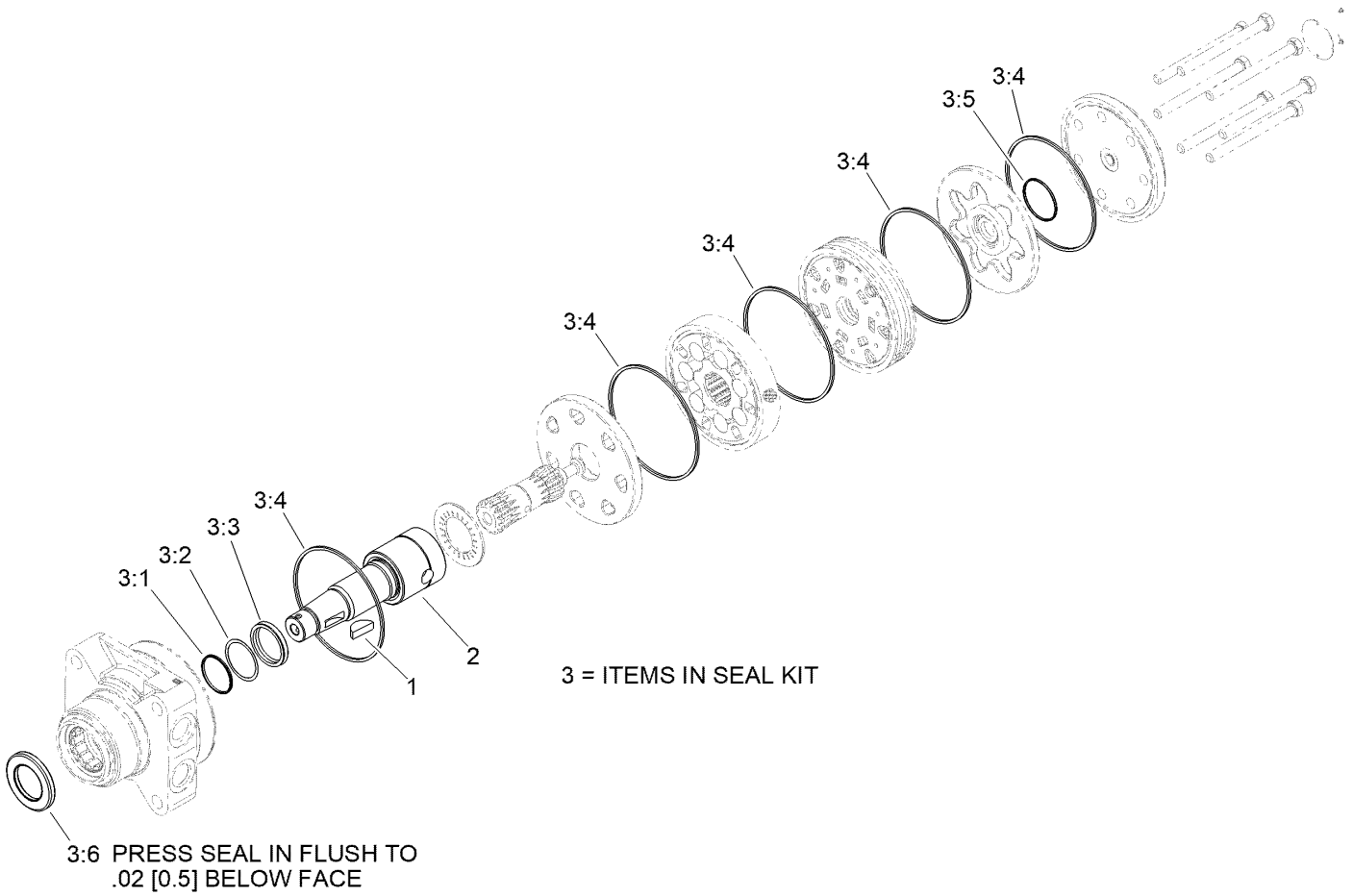
Front Wheel and Brake Assembly



Front Wheel and Brake Assembly (continued)

Ref.	Part Number	Qty.	Description
1	110-8785	1	HYD Motor ASM (CCW)
2	110-8786	1	HYD Motor ASM (CW)
3	3274-99	8	Screw-HSH
4	147-3595	2	Bracket-Brake
5	3296-23	8	Nut-Lock, NI
7	116-1399	2	Locknut
8	121-3551	2	Tire And Rim ASM
8:1	121-3550	1	Rim
8:2	115-1572	1	Tire
8:3	232-27	1	Stem-Valve
9	139-2564	8	Nut-Lug
10	321-5	8	Screw-HH
11	3296-42	8	Nut-Lock, NI
12	104-7705	2	Brake ASM
13	104-0485-0P	2	Shield-Wheel
14	119-8238	8	Spacer-Deck Pulley
15	114-2726	2	Lever-Brake
16	283-1	2	Pin-Clevis
17	115-6672	2	Brake Lever ASM
17:1	104-4627	1	Rod-Adjusting
17:2	1-303105	1	Yoke-Adjustable
17:3	3220-2	1	Nut-Hex Jam
18	3272-6	2	Pin-Cotter
19	104-4625-03	1	Shaft-Pivot, Brake
20	95-8683	2	Bracket-Pivot, Brake
21	3234-11	4	Screw-HHF
22	32128-43	4	Nut-Flange
23	256-156	2	Bushing-Flange
24	104-7706	2	E-Ring, Bowed
27	3272-10	2	Pin-Cotter
28	17-8149	2	Wheel Hub ASM
28:1	85-6540	4	Stud-Drive
28:2	93-6838	1	Hub-Wheel
28:3	10-6850	1	Drum-Brake

Hydraulic Motor Assembly No. 110-8785

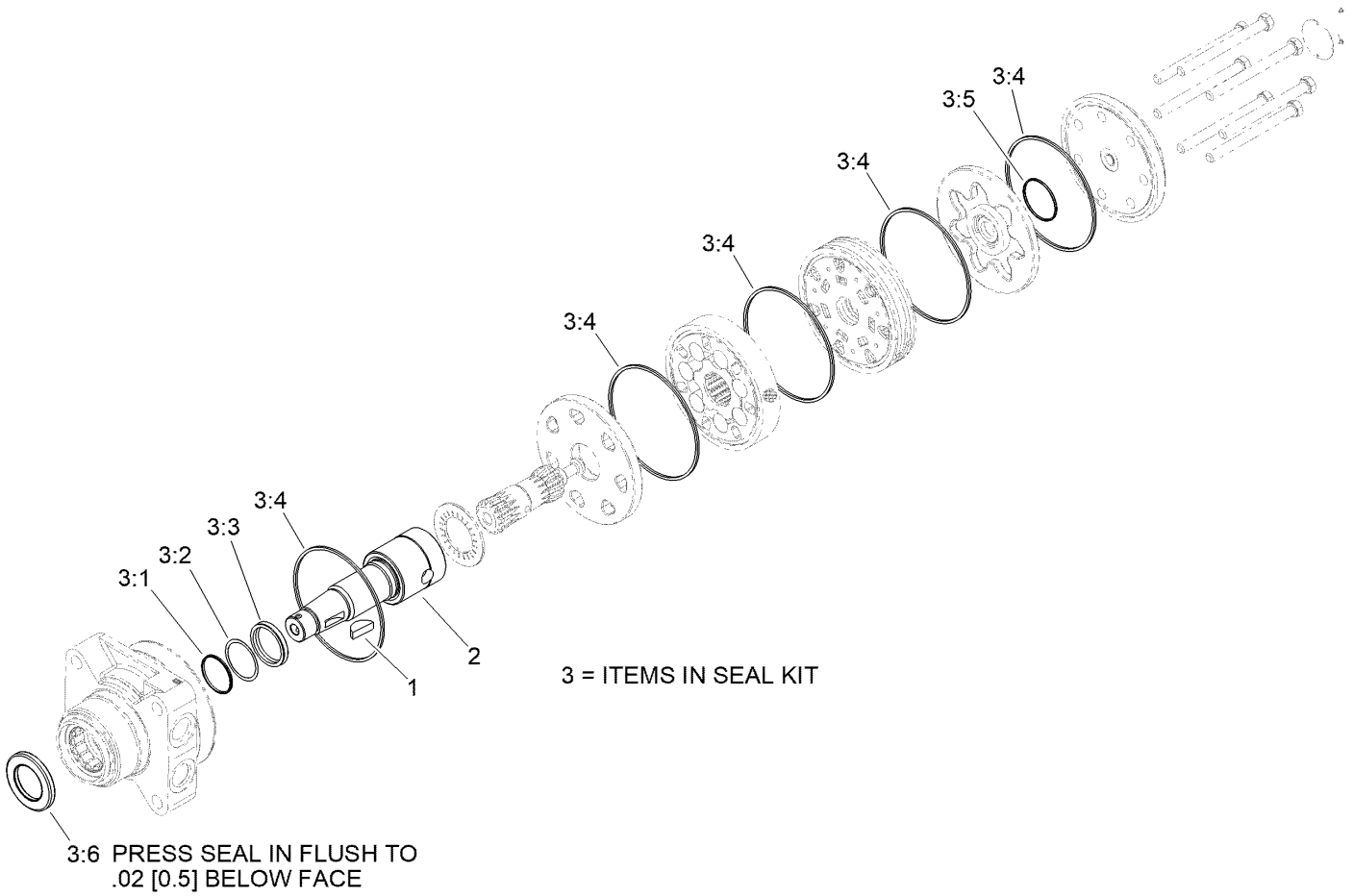


Hydraulic Motor Assembly No. 110-8785 (continued)

Ref.	Part Number	Qty.	Description
1	3257-42	1	Key-Woodruff
2	99-3090	1	Shaft-Coupling
3	100-6131	1	Seal Kit
3:1		1	Ring-Back Up ●
3:2		1	Washer-Back Up ●
3:3		1	Seal-Shaft ●
3:4		5	Seal-Ring ●
3:5		1	Seal-Commutator ●
3:6		1	Seal-Dirt And Water ●

● Not serviced separately

Hydraulic Motor Assembly No. 110-8786

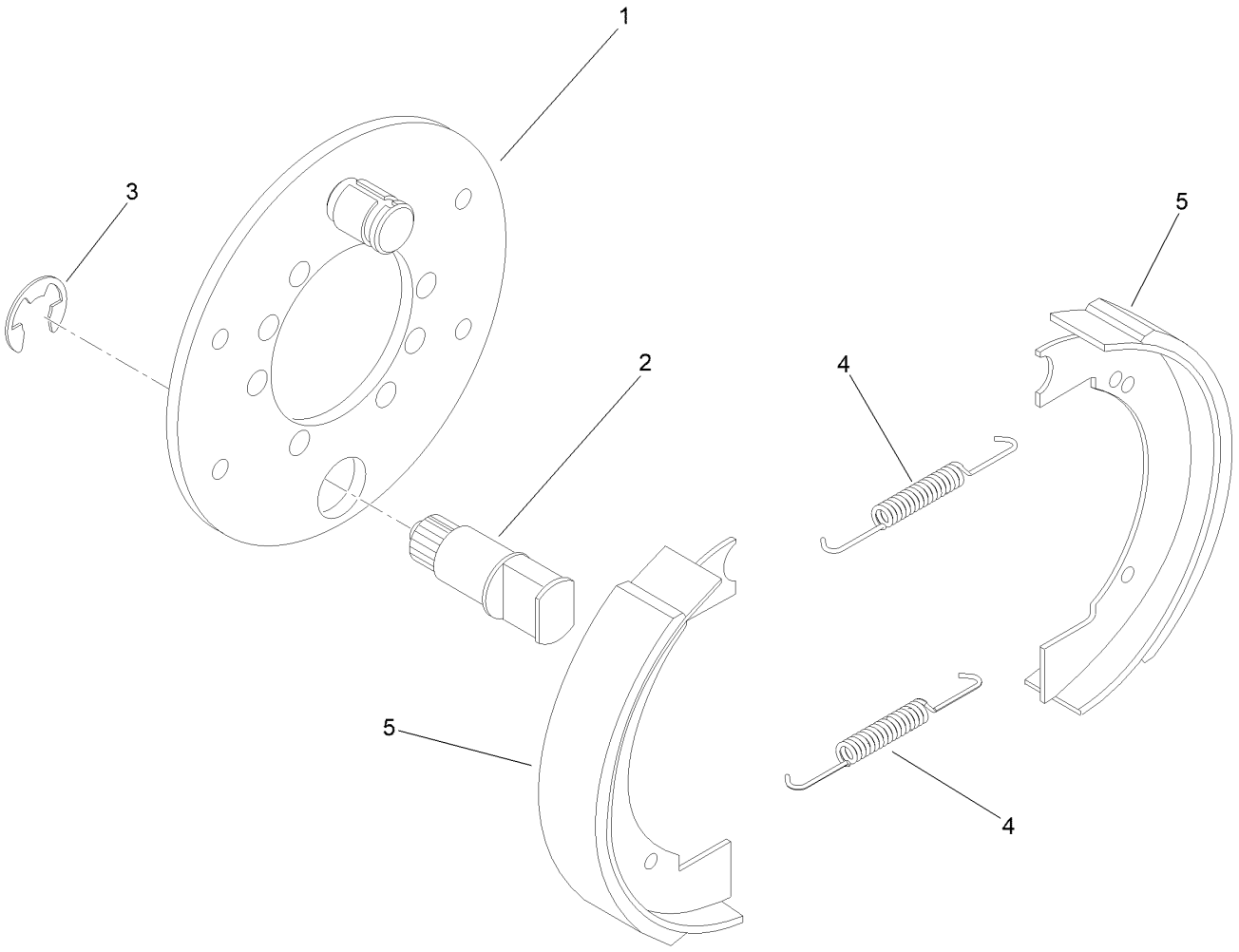


Hydraulic Motor Assembly No. 110-8786 (continued)

Ref.	Part Number	Qty.	Description
1	3257-42	1	Key-Woodruff
2	99-3090	1	Shaft-Coupling
3	100-6131	1	Seal Kit
3:1		1	Ring-Back Up ●
3:2		1	Washer-Back Up ●
3:3		1	Seal-Shaft ●
3:4		5	Seal-Ring ●
3:5		1	Seal-Commutator ●
3:6		1	Seal-Dirt And Water ●

● Not serviced separately

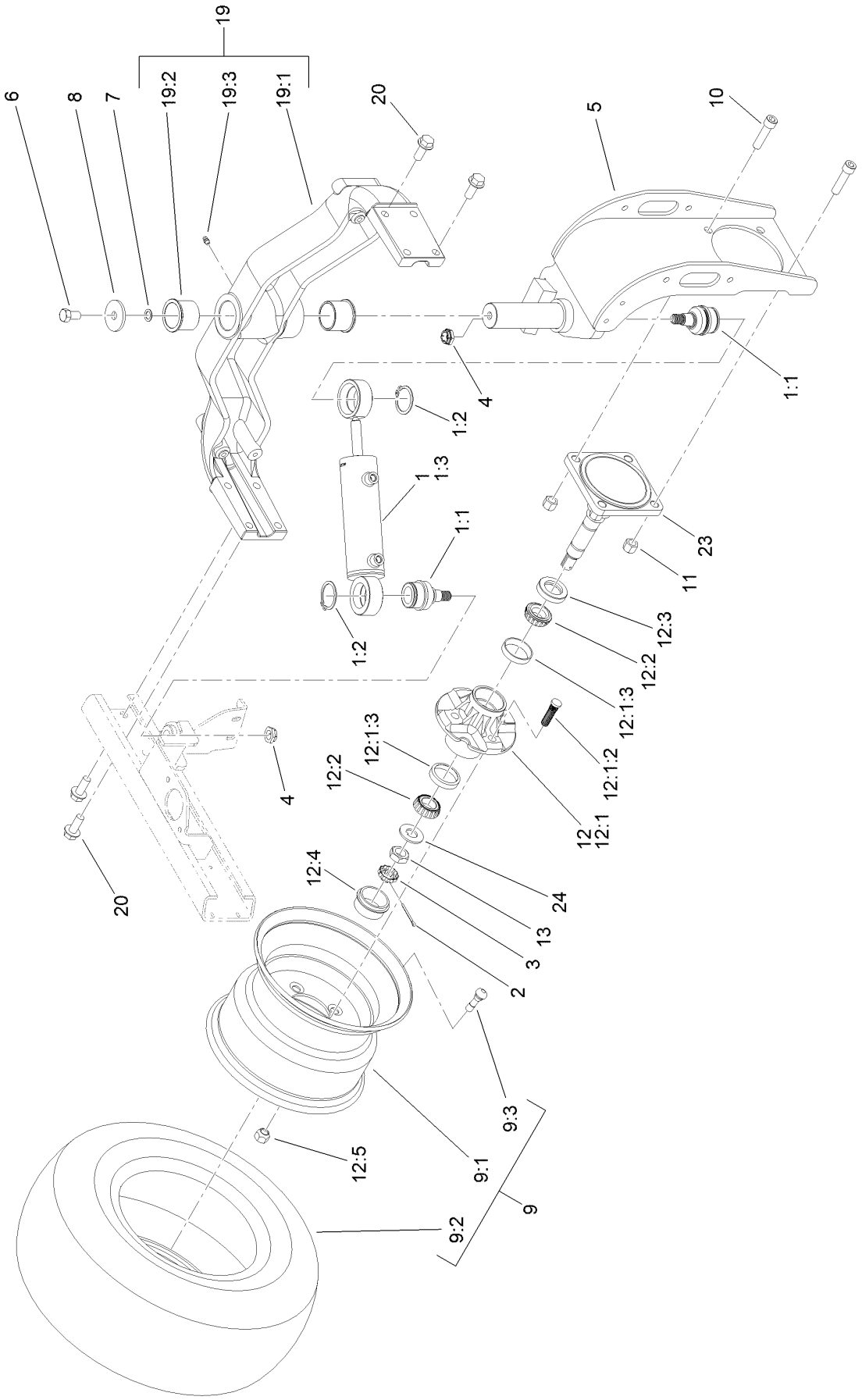
Brake Assembly No. 104-7705



Brake Assembly No. 104-7705 (continued)

Ref.	Part Number	Qty.	Description
1	70-9870	1	Plate-Backing
2	104-7707	1	Shaft-Cam, Brake
3	104-7706	1	E-Ring, Bowed
4	70-9880	2	Spring-Return
5	70-9840	2	Shoe-Brake

Rear Fork and Tire Assembly

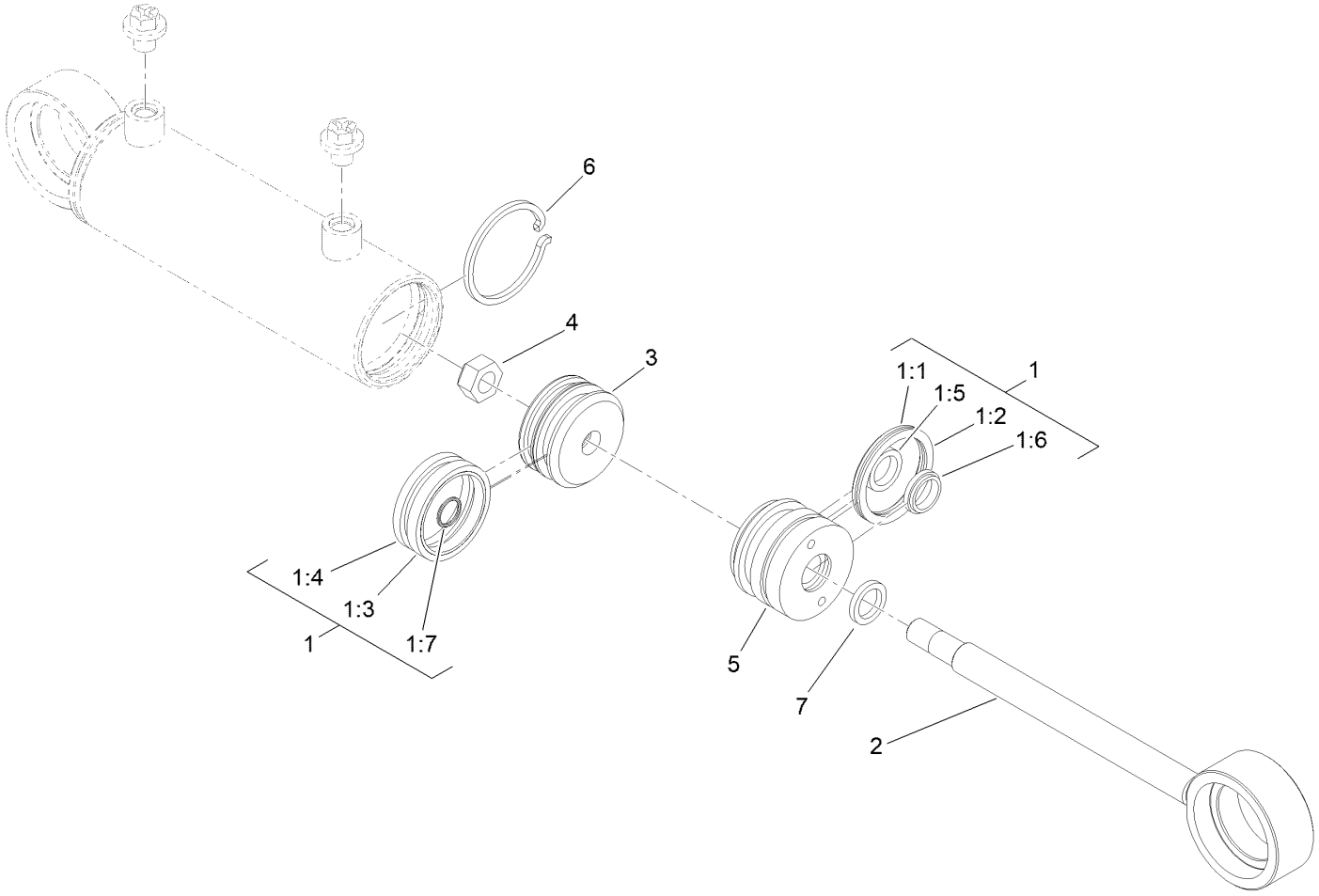


Rear Fork and Tire Assembly (continued)

Ref.	Part Number	Qty.	Description
1		1	Steering Cylinder ASM ●
1:1	121-3605	2	Ball Joint
1:2	32151-104	2	Ring-Retaining, External
1:3	121-3653	1	Cylinder-HYD
2	3272-13	1	Pin-Cotter
3	93-0307	1	Nut-Lock, Retainer
4	121-3611	2	Nut-Hex, Flextop
5	140-6293-01	1	Fork-Rear
6	325-3	1	Screw-HH
7	3255-2	1	Washer-Lock, EXT
8	75-7730	1	Washer-Thrust
9		1	Wheel And Tire ASM ●
9:1	117-5129	1	Rim
9:2	115-1572	1	Tire
9:3	232-27	1	Stem-Valve
10	3274-5	4	Screw-HSH
11	3296-23	4	Nut-Lock, NI
12	117-5115	1	Hub And Bearing ASM
12:1	117-8251	1	Hub ASM
12:1:2	114-3918	4	Stud-Wheel
12:1:3	254-72	2	Bearing-Cup, Tapered
12:2	254-94	2	Bearing-Cone, Tapered
12:3	112-1690	1	Seal-Oil
12:4	241-119	1	Cap-Dust
12:5	139-2564	4	Nut-Lug
13	3220-7	1	Nut-Jam
19	127-8576	1	Rear Casting ASM
19:1		1	Casting-Rear ●
19:2	127-8572	2	Bushing-Flange
19:3	302-5	1	Fitting-Grease
20	3234-38	8	Screw-HHF
23	115-6655-03	1	Spindle
24	93-0309	1	Washer-Tab

● Not serviced separately

Hydraulic Cylinder Assembly No. 121-3653

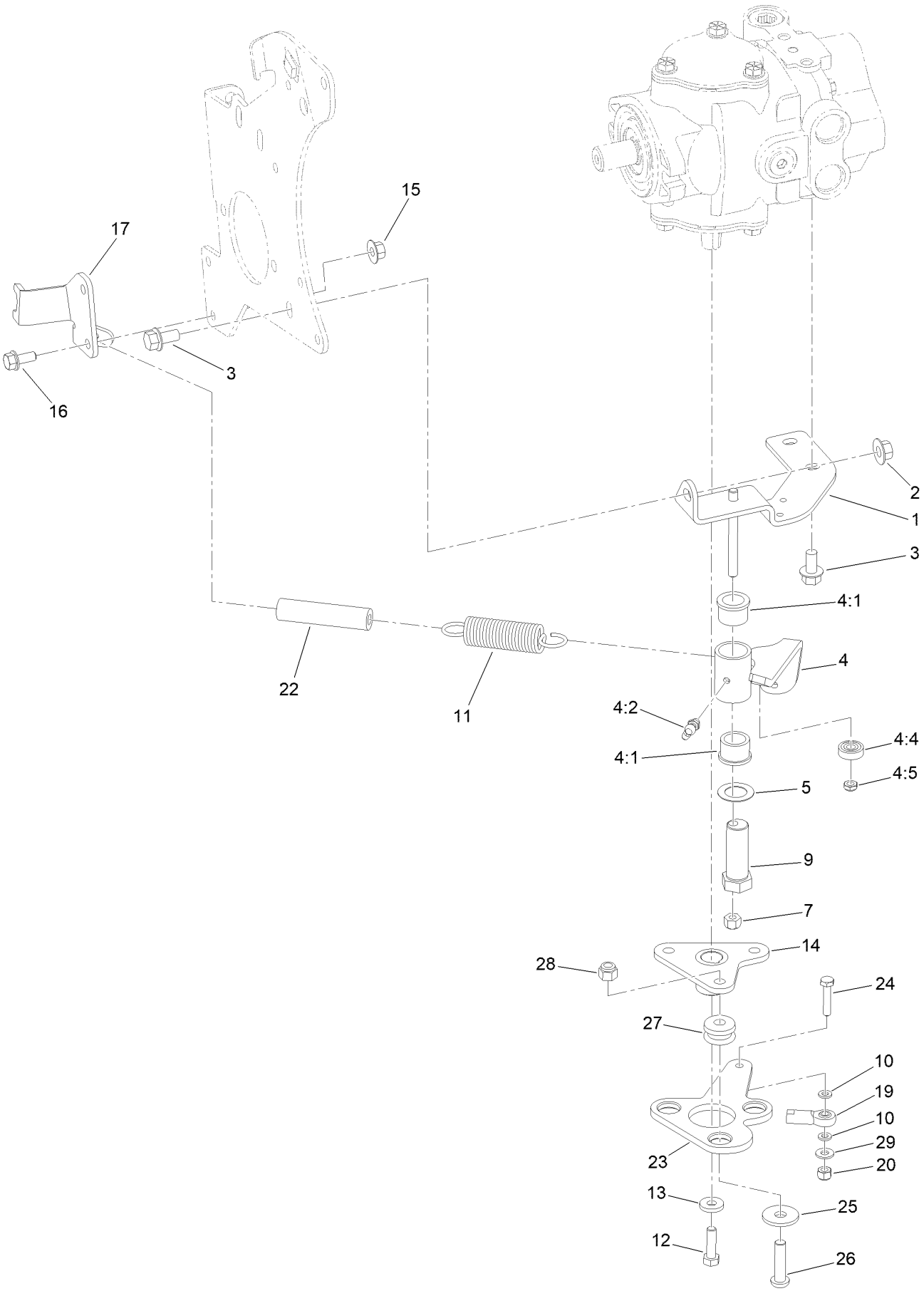


Hydraulic Cylinder Assembly No. 121-3653 (continued)

Ref.	Part Number	Qty.	Description
1	136-3278	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Backup ●
1:3		1	Psp Seal ●
1:4		1	Wear Ring ●
1:5		1	Bt Seal ●
1:6		1	Dust Seal ●
1:7		1	O-Ring ●
2		1	Rod ●
3		1	Piston ●
4		1	Head ●
5		1	Lock Nut ●
6		1	Retaining Ring ●
7		1	Square O-Ring ●

● Not serviced separately

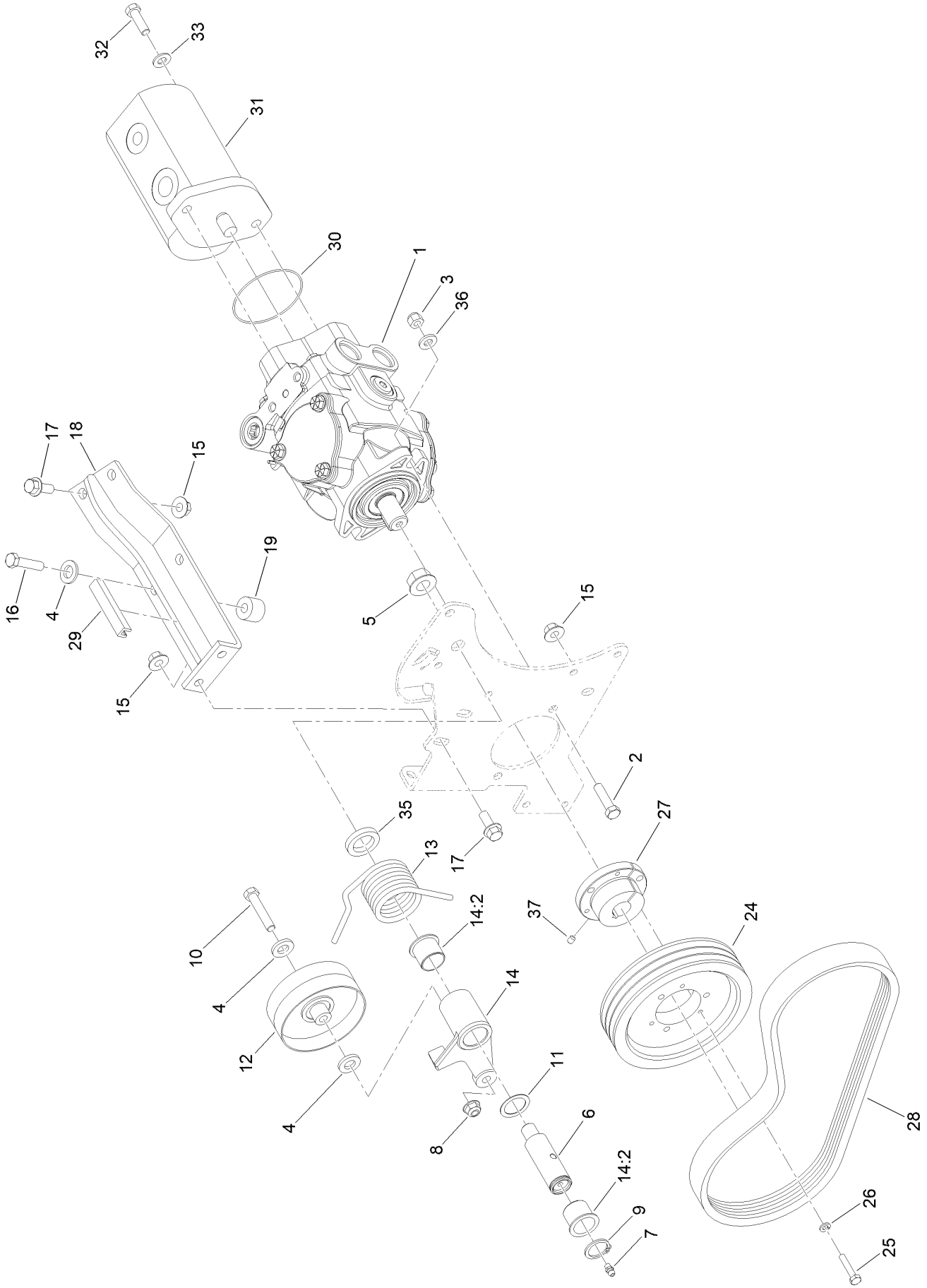
Neutral Arm Assembly



Neutral Arm Assembly (continued)

Ref.	Part Number	Qty.	Description
1	95-8960-0P	1	Bracket-Neutral
2	32128-43	1	Nut-Flange
3	3234-1	3	Screw-HHF
4	140-6168	1	Neutral Arm ASM
4:1	256-113	2	Bushing-Flange
4:2	302-60	1	Fitting-Grease
4:4	251-259	1	Bearing-Ball
4:5	3296-47	1	Nut-Lock,NI
5	3-6498	1	Washer-Thrust
7	3296-29	1	Nut-Lock, NI
9	76-8640	1	Stud-Traction
10	33093-00	2	Washer-Flat
11	145-5262	1	Spring-Extension
12	3210-6	1	Screw-HH
13	88-7200	1	Washer-Flat
14	120-5566	1	Hub
15	32128-44	2	Nut
16	3234-5	2	Screw-HHF
17	104-0464-03	1	Bracket-Support, Cable
19	2411-41	1	Rod End-Ball Joint
20	3296-42	1	Nut-Lock, NI
22	99-3556	1	Hose
23	99-3594-0P	1	Lever-Pump
24	321-8	1	Screw-HH
25	2844	3	Washer
26	95-3857	3	Screw-HSBH
27	63-9750	3	Mount
28	3296-39	3	Nut-Lock, NI
29	3256-22	1	Washer-Flat

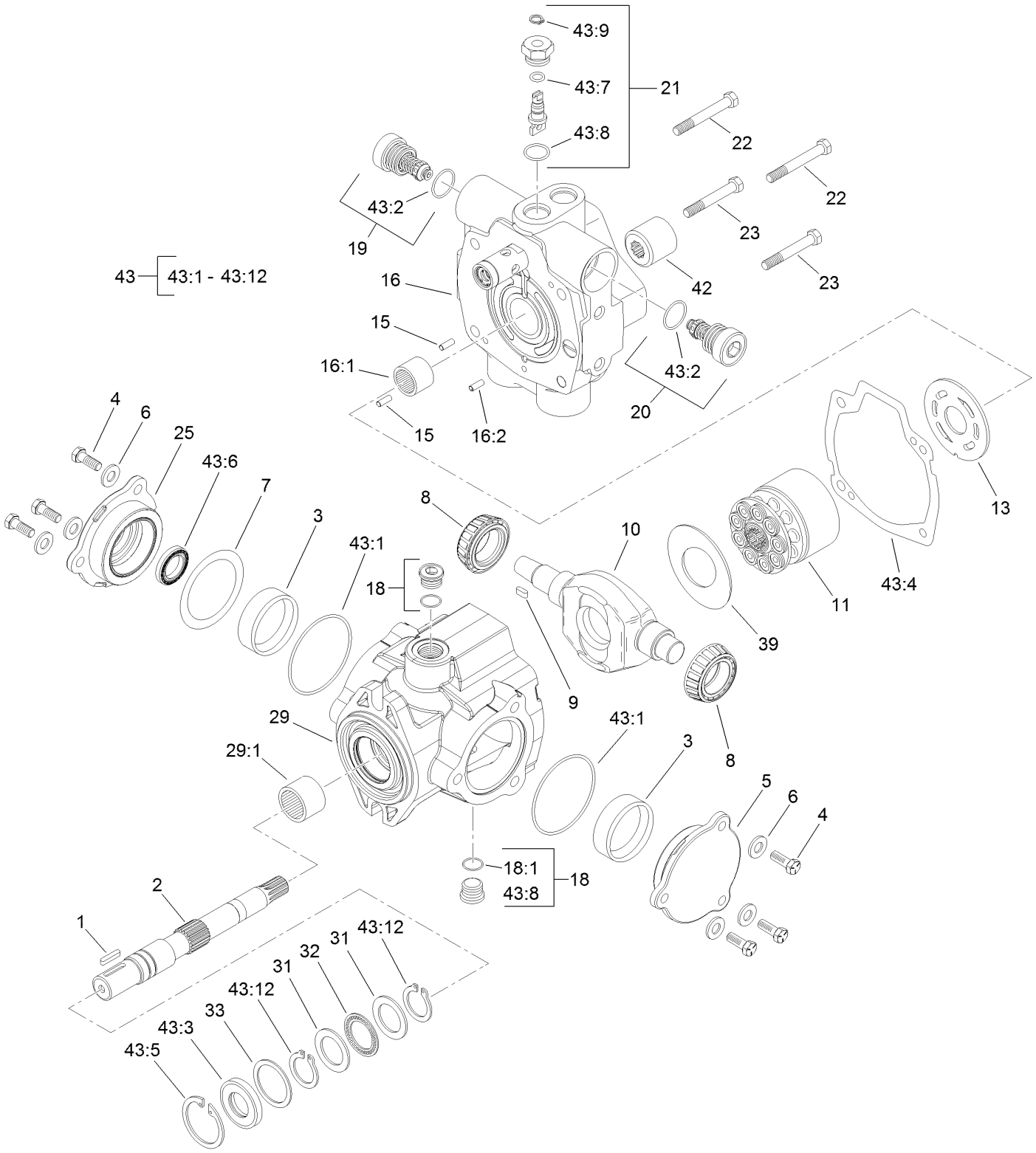
Gear Pump and Piston Pump Assembly



Gear Pump and Piston Pump Assembly (continued)

Ref.	Part Number	Qty.	Description
1	104-4890	1	Piston Pump ASM
2	323-8	2	Screw-HH
3	3296-39	2	Nut-Lock, NI
4	3256-24	4	Washer-Plain
5	32128-54	1	Nut-HF
6	99-3624	1	Shaft-Pivot, Idler
7	302-5	1	Fitting-Grease
8	119-4042	1	Nut-HF, NI
9	32151-36	1	Ring-Retaining
10	323-10	1	Screw-HH
11	74-1810	1	Washer
12	139-6031	1	Pulley-Idler
13	115-3488	1	Spring-Torsion
14	137-1653	1	Idler Arm ASM
14:2	126-1963	2	Bushing-Pivot
15	32128-43	4	Nut-Flange
16	323-19	2	Screw-HH
17	3234-11	4	Screw-HHF
18	99-3436-0P	1	Support-Pump
19	99-3440	2	Spacer
24	120-3350	1	Pulley-3V
25	321-13	3	Screw-HH
26	3253-3	3	Washer-Lock
27	100-4813	1	Bushing-Lock, Taper
28	120-3351	1	Belt-3V
29	70-2041	1	Trim - Edge
30	353-949	1	O-Ring
31	108-9036	1	HYD Gear Pump ASM
32	323-7	2	Screw-HH
33	3256-24	2	Washer-Plain
35	99-3625	1	Spacer-Arm, Idler
36	100-4852	2	Washer-Hardened
37	3245-7	1	Screw-Set

Hydraulic Pump Assembly No. 104-4890



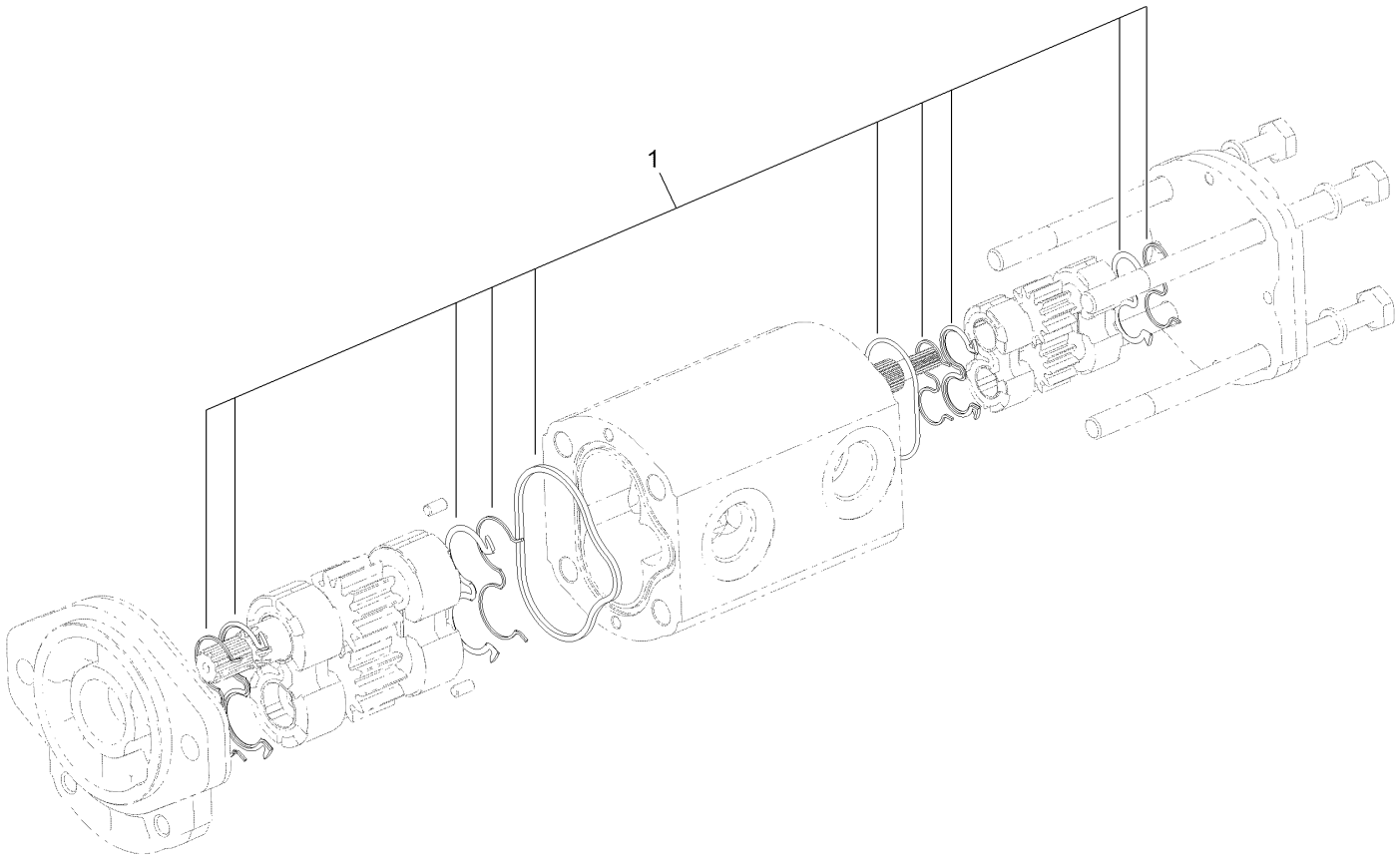
Hydraulic Pump Assembly No. 104-4890 (continued)

Ref.	Part Number	Qty.	Description
1	94-3645	1	Key
2	94-6359	1	Shaft-Drive
3	104-4046	2	Bearing-Cup
4	98-4640	6	Screw-Cap
5	98-4644	1	Plate-Cover
6	105-9762	6	Washer
7	100-3182	2	Shim Kit
8	98-4639	2	Bearing-Cone
9	94-3646	1	Key
10	104-4888	1	Swashplate
11	76-6070	1	Rotating Kit
13	104-0429	1	Plate-Valve
15	76-6150	2	Pin-Dowel
16	105-3813	1	Endcover Sub ASM
16:1	94-6368	1	Bearing
16:2		1	Pin-Roll ■
18	74-9280	2	Plug ASM
18:1		1	O-Ring ■
19	104-4889	1	Relief Valve ASM
20	105-3812	1	Valve-Check
21	105-3811	1	Valve-Bypass
22	76-6170	2	Capscrew
23	76-6160	2	Capscrew
25	98-4645	1	Plate-Cover
29	100-3176	1	Housing ASM
29:1	94-6363	1	Bearing
31	252-71	2	Washer-Thrust
32	252-66	1	Bearing-Thrust
33	33-3720	1	Washer
39	98-4635	1	Insert-Plate, Cam
42	74-9040	1	Coupler
43	120-5754	1	Seal Kit
43:1		2	O-Ring ■
43:2		2	O-Ring ■
43:3		1	Seal-Shaft ■
43:4		1	Gasket ■
43:5		1	Ring-Retaining ■
43:6		1	Seal-Shaft ■
43:7		1	O-Ring ■
43:8		5	O-Ring ■
43:9		1	Ring-Retaining ■
43:10		1	O-Ring ● ■
43:11		1	O Ring-Molded ● ■
43:12		2	Ring-Retaining ■
43:13		1	O-Ring ■ ●

● Not illustrated

■ Not serviced separately

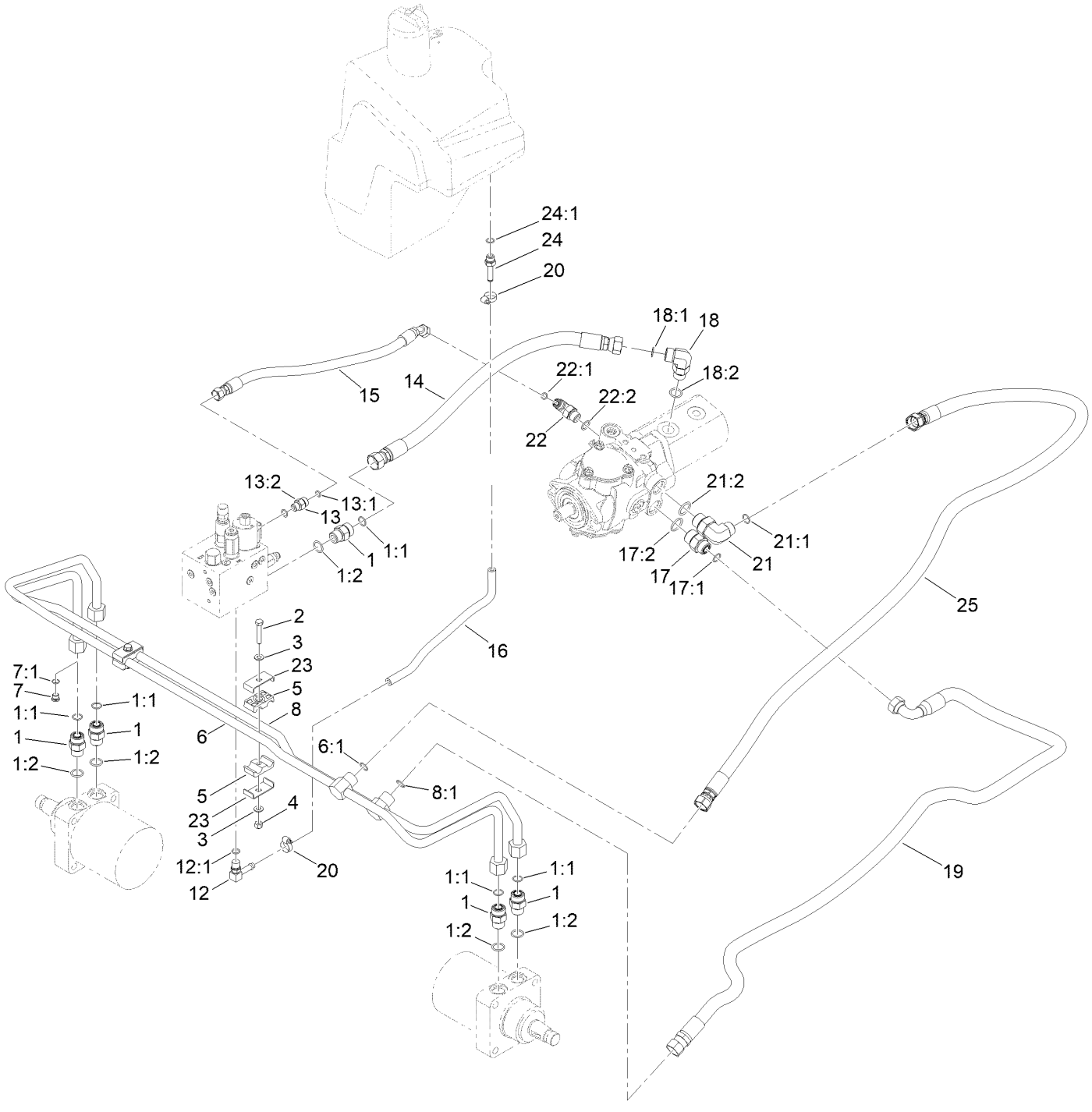
Hydraulic Gear Pump Assembly No. 108-9036



Hydraulic Gear Pump Assembly No. 108-9036 (continued)

Ref.	*Part Number*	*Qty.*	*Description*
1	110-8755	1	Seal Kit

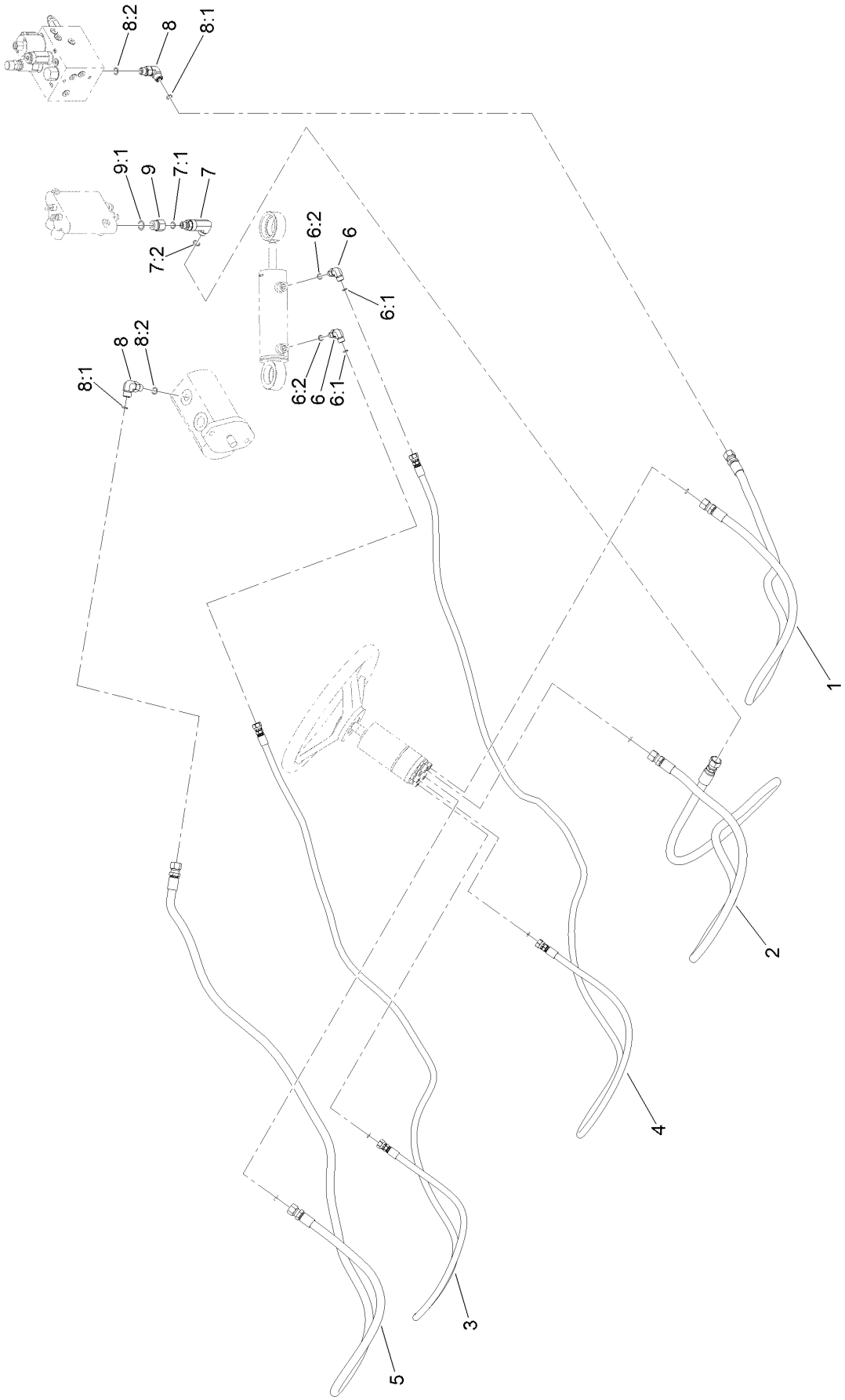
Hydraulic Traction Circuit Assembly



Hydraulic Traction Circuit Assembly (continued)

Ref.	Part Number	Qty.	Description
1	340-7	5	Fitting-Straight
1:1	237-65	1	O-Ring
1:2	237-80	1	O-Ring
2	322-9	2	Screw-HH
3	3256-23	4	Washer-Plain
4	3296-29	2	Nut-Lock, NI
5	56-7971	4	Clamp-Tube
6	95-8783	1	Tube ASM
6:1	237-65	1	O-Ring
7	353-990	1	Plug ASM
7:1	237-78	1	O-Ring
8	95-8784	1	Tube ASM
8:1	237-65	1	O-Ring
12	100-4887	1	Fitting-Elbow, 90
12:1	237-42	1	O-Ring
13	340-2	1	Fitting-Straight
13:1	237-22	1	O-Ring
13:2	237-42	1	O-Ring
14	147-6089	1	Hose ASM-HYD
15	147-6088	1	Hose ASM-HYD
16	164-1865	1	Hose-HYD
17	340-8	1	Fitting-Straight
17:1	237-65	1	O-Ring
17:2	237-81	1	O-Ring
18	340-17	1	Fitting-Elbow, 90 DEG
18:1	237-65	1	O-Ring
18:2	237-80	1	O-Ring
19	105-1214	1	Hose-HYD
20	2412-36	2	Clamp-Hose
21	340-139	1	Fitting-Elbow 90
21:1	237-81	1	O-Ring
21:2	237-65	1	O-Ring
22	340-18	1	Fitting-HYD, 90 DEG
22:1	237-79	1	O-Ring
22:2	237-22	1	O-Ring
23	119-1419	4	Plate-Clamp
24	353-979	1	Fitting-STR
24:1	237-42	1	O-Ring
25	108-9008	1	Hose ASM

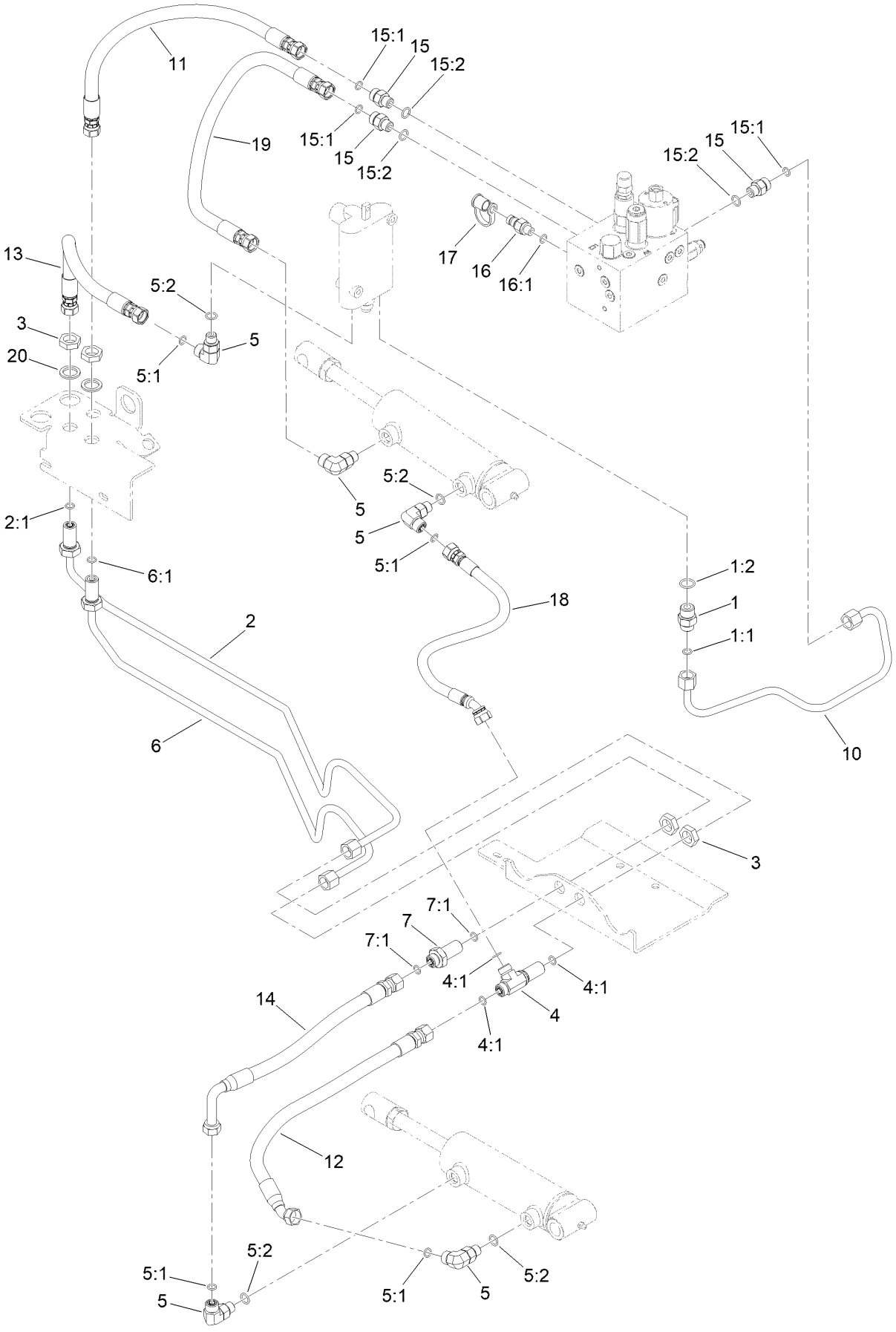
Steering Hydraulic Assembly



Steering Hydraulic Assembly (continued)

Ref.	Part Number	Qty.	Description
1	95-8842	1	Hose-HYD
2	95-8843	1	Hose-HYD
3	100-4892	1	Hose-HYD
4	100-4893	1	Hose-HYD
5	95-8846	1	Hose-HYD
6	340-132	2	Fitting-Elbow, 90 DEG
6:1	237-78	1	O-Ring
6:2	237-21	1	O-Ring
7	145-2645	1	Fitting-Elbow 90 Long
7:1	237-22	1	O-Ring
7:2	237-42	1	O-Ring
8	340-77	2	Fitting-Elbow, 90 DEG
8:1	237-22	1	O-Ring
8:2	237-42	1	O-Ring
9	353-397	1	Reducer-Adapter
9:1	237-79	1	O-Ring

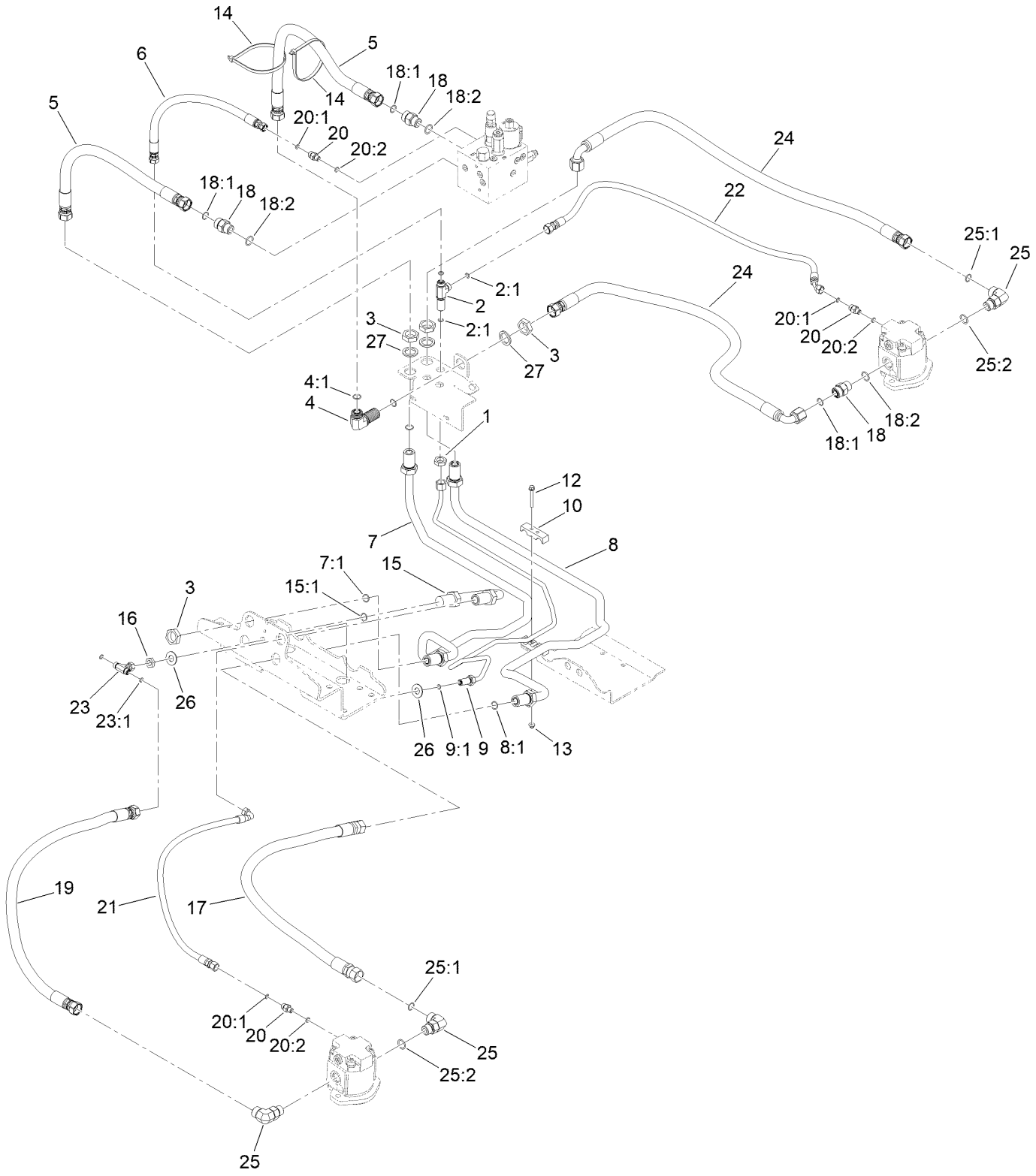
Hydraulic Lift Circuit Plumbing Assembly



Hydraulic Lift Circuit Plumbing Assembly (continued)

Ref.	Part Number	Qty.	Description
1	340-3	1	Fitting-Straight
1:1	237-22	1	O-Ring
1:2	237-79	1	O-Ring
2	104-0402	1	Tube-HYD
2:1	237-22	1	O-Ring
3	340-70	4	Nut-Lock
4	340-68	1	Fitting-Tee, Bulkhead
4:1	237-22	3	O-Ring
5	340-77	5	Fitting-Elbow, 90 DEG
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	104-0403	1	Tube ASM
6:1	237-22	1	O-Ring
7	340-71	1	Fitting-Straight, Bulkhead
7:1	237-22	2	O-Ring
10	145-5282	1	Hydraulic Tube ASM
11	108-9013	1	Hose ASM
12	104-0405	1	Hose-HYD
13	99-3575	1	Hose-HYD
14	104-0406	1	Hose-HYD
15	340-2	3	Fitting-Straight
15:1	237-22	1	O-Ring
15:2	237-42	1	O-Ring
16	354-77	1	Fitting-Quick
16:1	237-78	1	O-Ring
17	354-79	1	Cap-Dust
18	104-0407	1	Hose-HYD
19	99-3579	1	Hose-HYD
20	1278	2	Washer

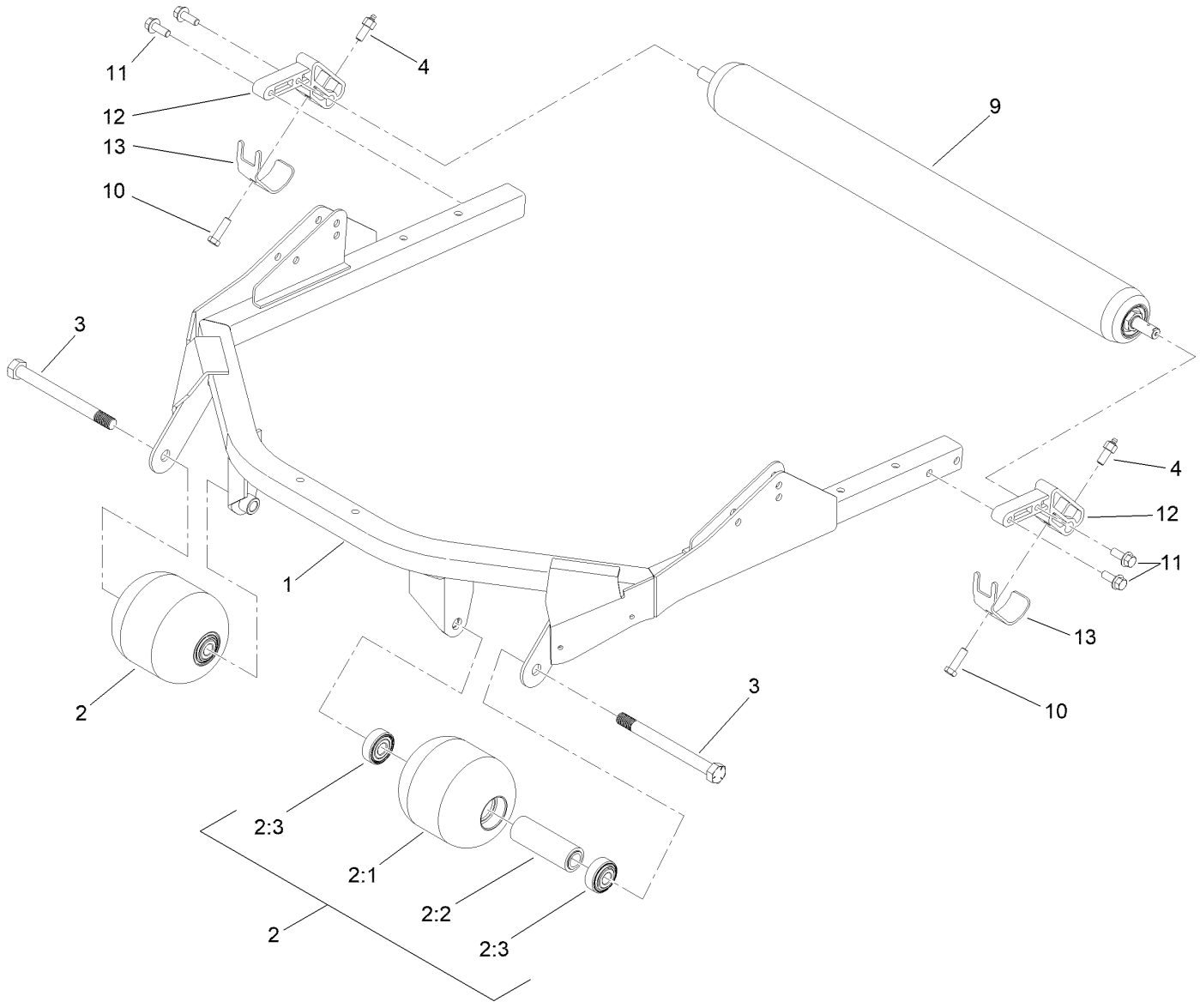
Hydraulic Mow Circuit Plumbing Assembly



Hydraulic Mow Circuit Plumbing Assembly (continued)

Ref.	Part Number	Qty.	Description
1	340-70	1	Nut-Lock
2	340-68	1	Fitting-Tee, Bulkhead
2:1	237-22	3	O-Ring
3	340-74	7	Nut-Lock, Bulkhead
4	340-72	1	Fitting-Bulkhead, 90 DEG
4:1	237-65	2	O-Ring
5	108-9004	2	Hose ASM
6	115-3412	1	Hose-HYD
7	104-0401	1	Tube ASM
7:1	237-65	2	O-Ring
8	104-0400	1	Tube ASM
8:1	237-65	2	O-Ring
9	104-0404	1	Tube ASM
9:1	237-21	1	O-Ring
10	99-3641	2	Clamp-Tube
12	3234-34	2	Screw-HHF
13	104-7201	2	Nut-HF, NI
14	3334-945	2	Tie-Cable
15	99-3640	1	Tube ASM
15:1	237-65	2	O-Ring
16	340-78	1	Nut-Lock
17	105-1216	2	Hose-HYD
18	340-7	3	Fitting-Straight
18:1	237-65	1	O-Ring
18:2	237-80	1	O-Ring
19	105-1215	2	Hose-HYD
20	340-92	4	Fitting-Straight
20:1	237-78	1	O-Ring
20:2	237-21	1	O-Ring
21	104-1080	2	Hose-HYD
22	100-4876	1	Hose-HYD
23	99-3477	1	Fitting-Tee
23:1	237-21	2	O-Ring
24	100-4880	2	Hose-HYD
25	340-17	5	Fitting-Elbow, 90 DEG
25:1	237-65	1	O-Ring
25:2	237-80	1	O-Ring
26	69-8980	1	Washer
27	69-9010	3	Washer

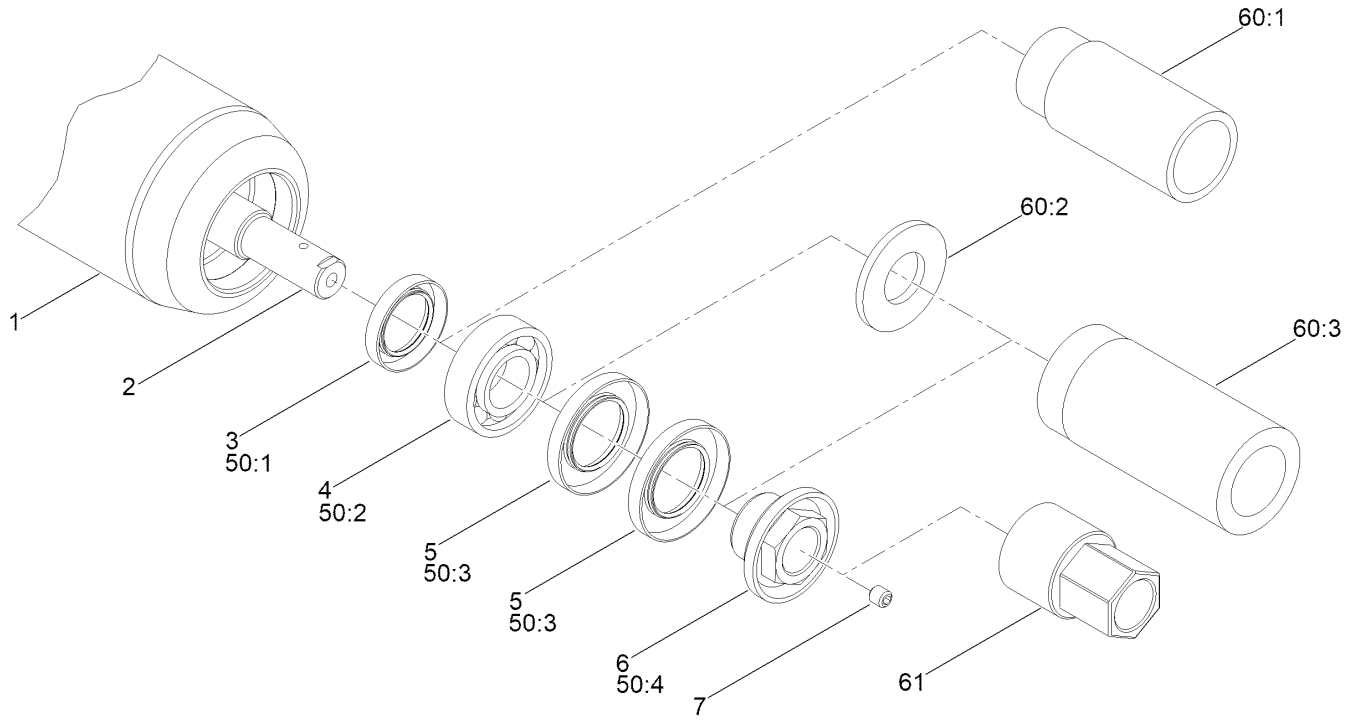
Roller and Carrier Frame Assembly



Roller and Carrier Frame Assembly (continued)

Ref.	Part Number	Qty.	Description
1	100-5780-03	1	Frame-Deck
2	136-2908	2	Roller ASM
2:1	104-1093	1	Roller
2:2	100-5762	1	Spacer-Bearing
2:3	120-3366	2	Bearing
3	136-2924	2	Screw-HH
4	127-6422	2	Screw-Grease, Roller
9	137-6141	1	Rear Roller ASM
10	323-7	2	Screw-HH
11	3234-11	4	Screw-HHF
12	112-5268	2	Mount-Roller
13	107-7816	2	Bracket-Skid

Rear Roller Assembly No. 137-6141



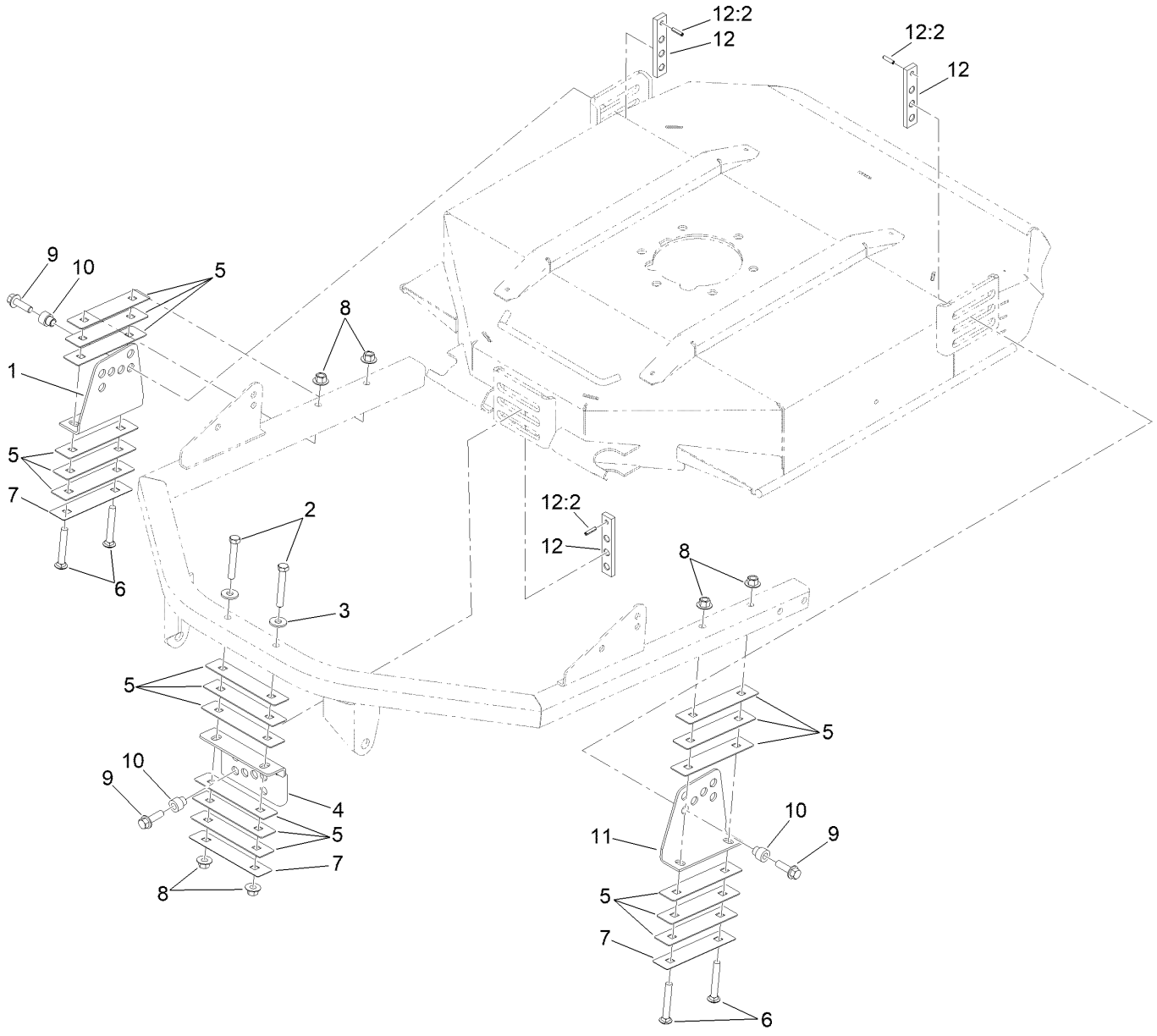
50 = 50:1 - 50:4

60 = 60:1 - 60:3

Rear Roller Assembly No. 137-6141 (continued)

Ref.	Part Number	Qty.	Description
1	137-6140	1	Tube-Roller
2	117-5100	1	Shaft-Roller, Rear
3	114-3717	2	Seal-Oil
4	112-5290	2	Bearing-Steel, Stainless
5	112-7494	4	Seal
6	147-0701	2	Nut-Lock, Bearing
7	108-0989	2	Screw-Set
50	114-5430	1	Roller Rebuild Kit
50:1	114-3717	2	Seal-Oil
50:2	112-5290	2	Bearing-Steel, Stainless
50:3	112-7494	4	Seal
50:4	147-0701	2	Nut-Lock, Bearing
60	115-0803	1	Rm/Gm Roller Rebuild Tool Kit
60:1	115-0852	1	Tool-Inner Seal
60:2	107-8133	1	Washer-Flat
60:3	115-0853	1	Tool-Bearing/Outer Seal
61	147-1132	1	Tool-Drive, Roller Nut

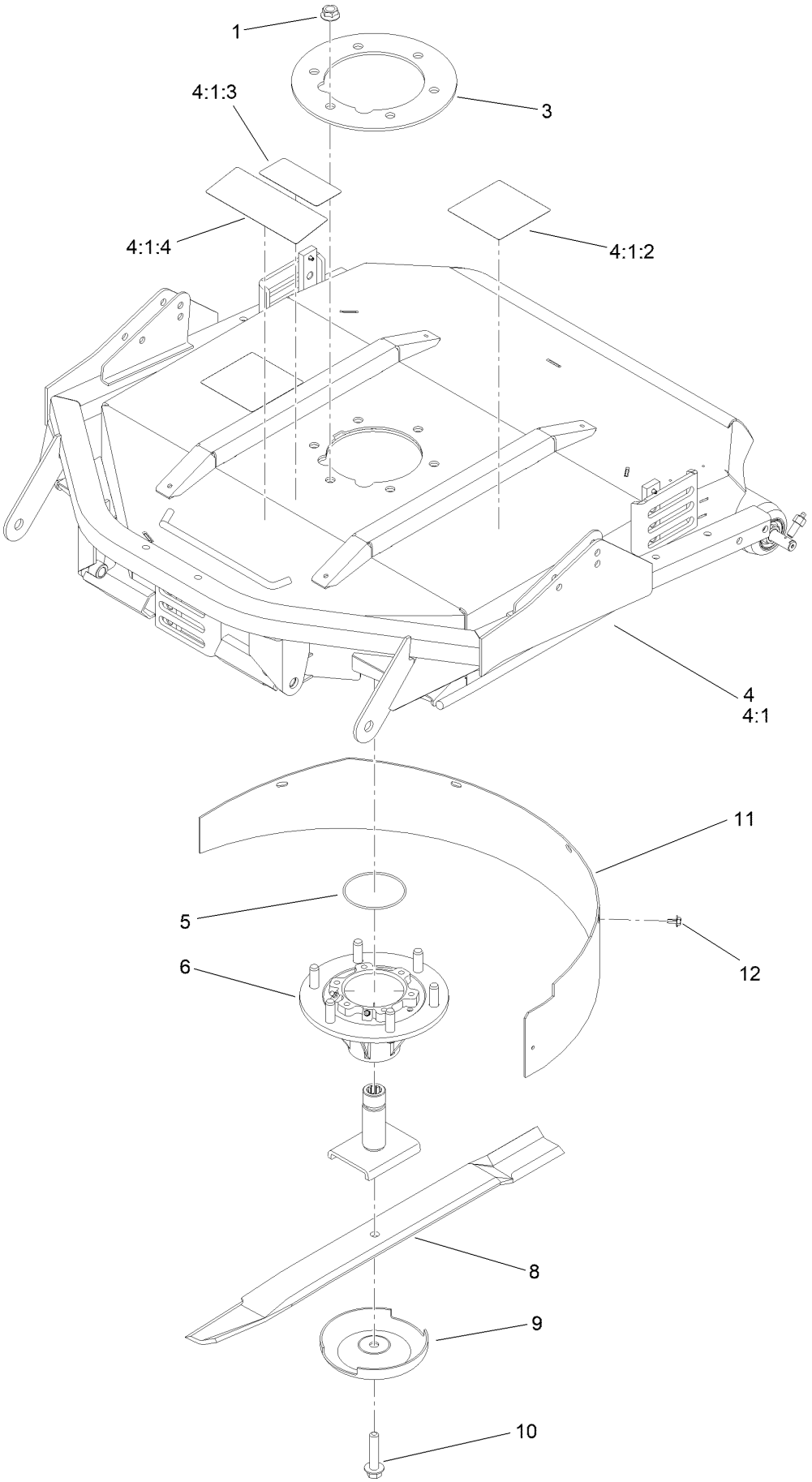
Height-of-Cut Bracket Assembly



Height-of-Cut Bracket Assembly (continued)

Ref.	Part Number	Qty.	Description
1	100-5797-03	1	Bracket-HOC, RH
2	323-12	2	Screw-HH
3	80-6990	2	Washer-Hardened
4	104-1052-03	1	Bracket-HOC, Front
5	100-5799	18	Shim-HOC, .060 Inch
6	3231-9	4	Screw-CARR
7	104-4641	3	Shim-HOC, .030 Inch
8	32128-43	6	Nut-Flange
9	3234-24	3	Screw-HHF
10	121-3575	3	Spacer-HOC
11	104-4624-03	1	Bracket-HOC, LH
12	136-2921	3	HOC Plate ASM
12:2	32121-2	1	Pin-Roll, Slotted

Chamber, Blade and Spindle Assembly

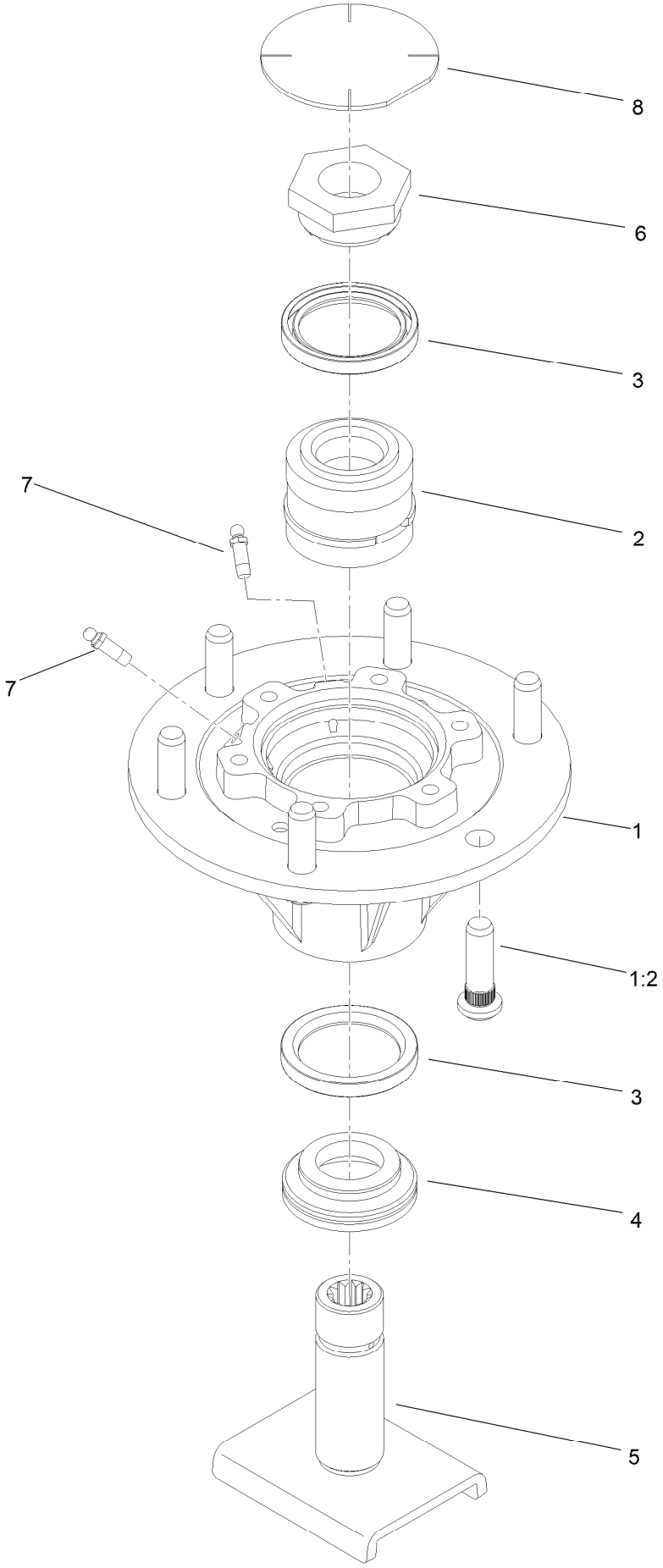


Chamber, Blade and Spindle Assembly (continued)

Ref.	Part Number	Qty.	Description
1	32128-39	6	Nut-HF
3	104-1051-03	1	Plate-Spindle
4	127-6389	1	Deck Chamber Service ASM
4:1		1	Chamber ASM ●
4:1:2	117-4764	2	Decal-Danger
4:1:3	93-7818	1	Decal-Torque, Blade Bolt
4:1:4	121-3627	1	Decal-Height Of Cut
5	237-161	1	O-Ring
6	121-3666	1	Spindle ASM
8	107-0235-03	1	Blade-Atomic
8	108-9026	1	Blade-27", Combo
9	72-9361	1	Cup-Scalp, Anti
10	92-5816	1	Bolt-Blade
11	108-9025-01	1	Baffle-Mulching
12	46-8560	5	Screw-HHFTF

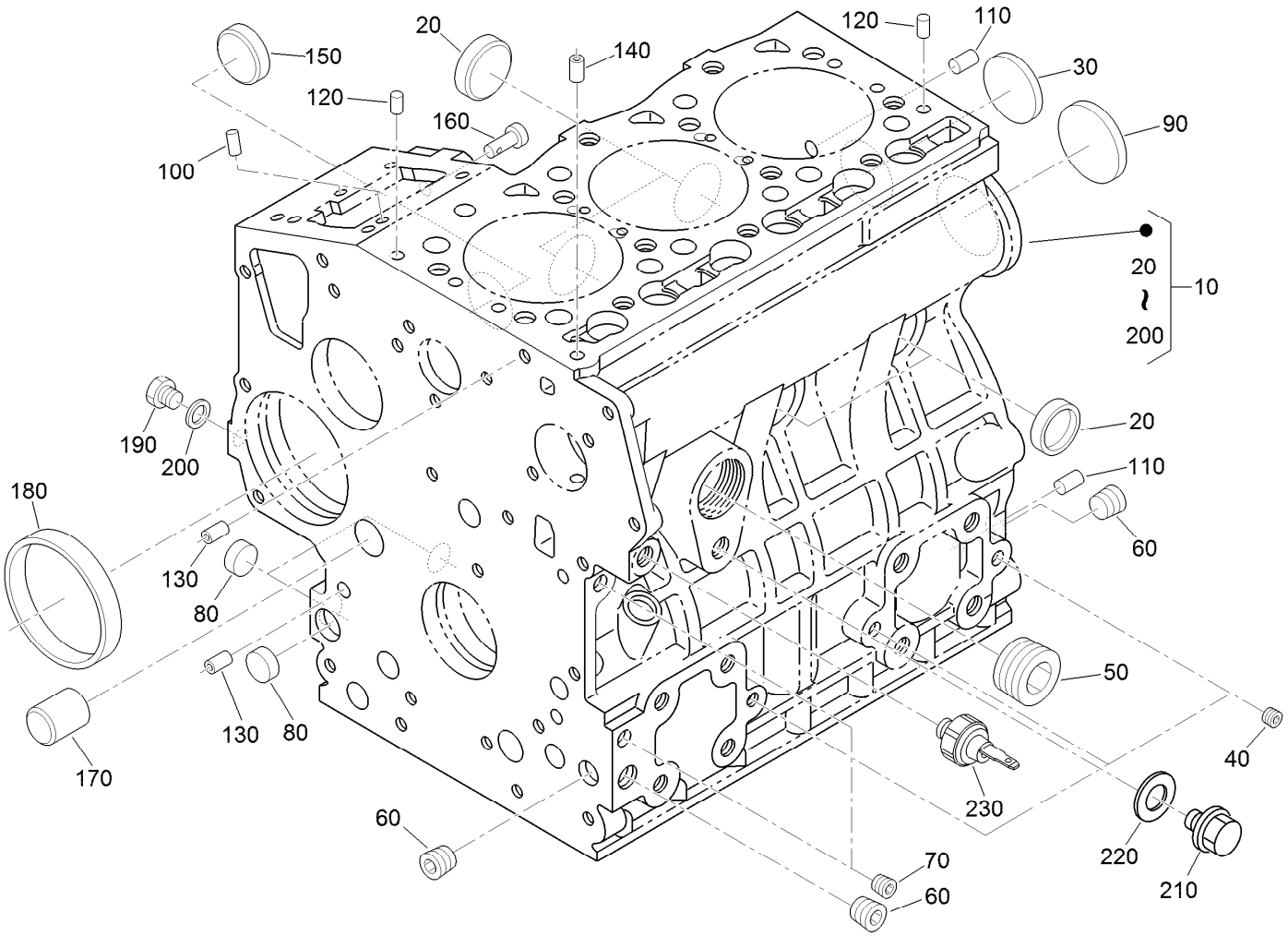
● Not serviced separately

Spindle Assembly No. 121-3666



Spindle Assembly No. 121-3666 (continued)

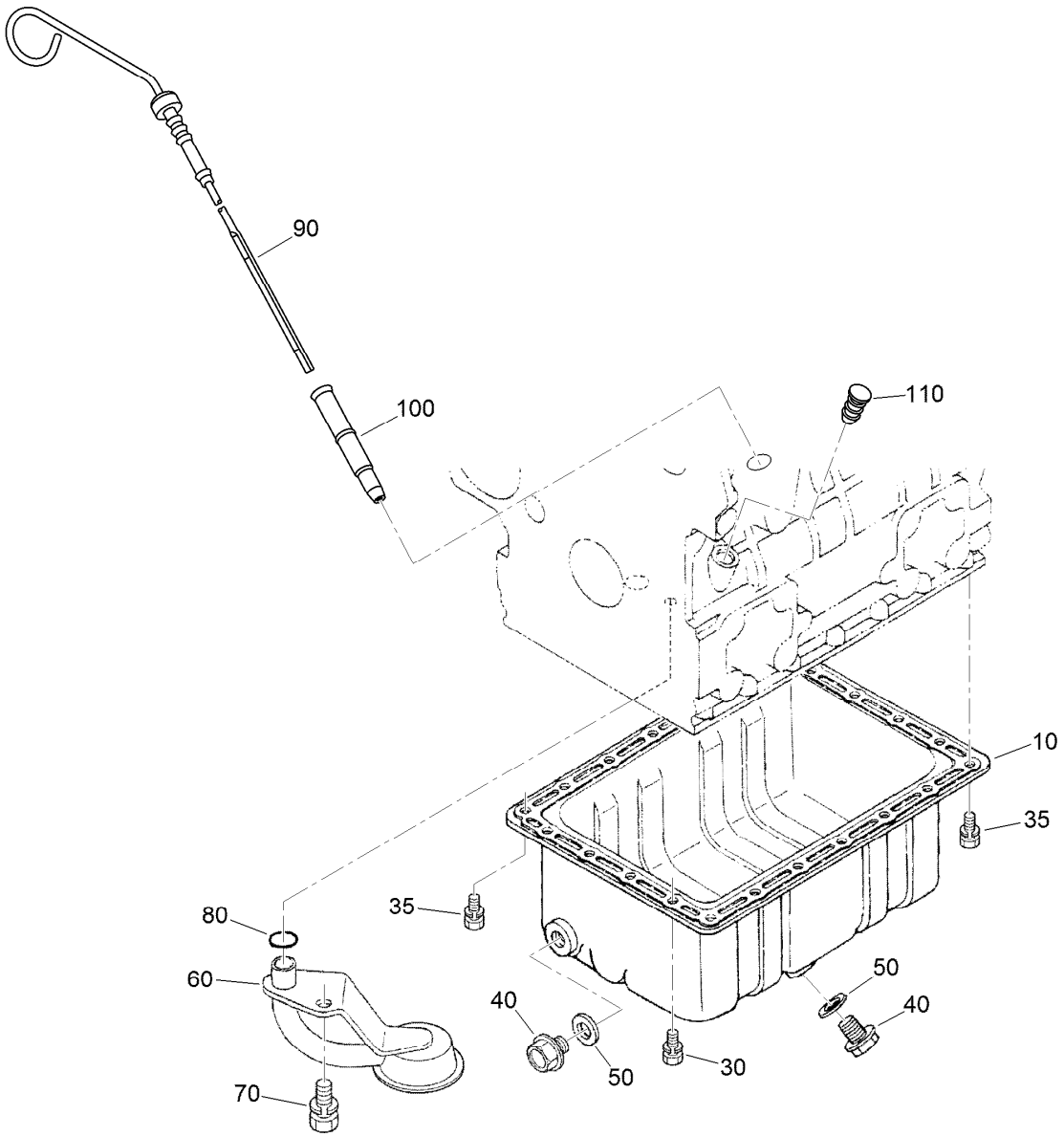
Ref.	Part Number	Qty.	Description
1	115-3434	1	Spindle
1:2	10-6830	6	Stud-Type, Drive
2	100-5703	1	Spacer And Bearing ASM
3	253-154	2	Seal-Oil
4	138-6416	1	Spacer-Spindle, Shaft
5	121-3664	1	Spindle Shaft ASM
6	100-5709	1	Nut-Spindle, Spcl
7	302-62	2	Fitting-Grease
8	94-2703	1	Plug



Crankcase Assembly

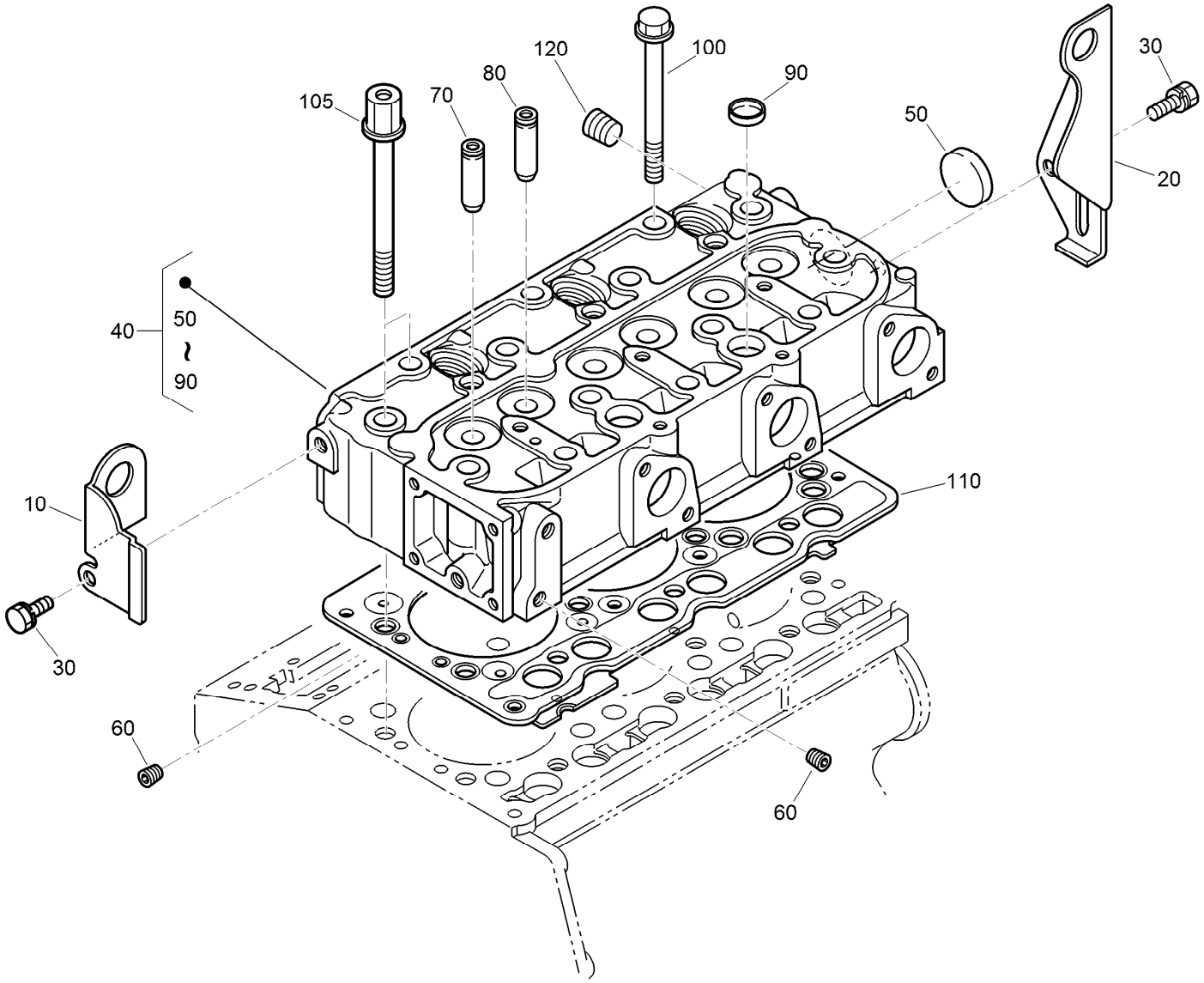
Ref.	Part Number	Qty.	Description
10	115-3443	1	Crankcase ASM
20	98-9398	4	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-9687	3	Plug
50	105-3779	1	Plug
60	98-9597	3	Plug
70	98-7487	2	Plug
80	98-9379	3	Plug-Expansion
90	98-9668	1	Plug-Expansion
100	98-9375	2	Pin-Straight
110	98-9377	2	Pin-Straight
120	98-9376	2	Pin-Straight

Ref.	Part Number	Qty.	Description
130	98-9387	2	Pin-Pipe
140	98-9539	1	Pin-Pipe
150	98-9599	1	Plug
160	98-9630	1	Pin-Spring, Start
170	98-9675	1	Plug
180	98-9656	1	Bushing-Governor, Gear
190	120-2559	1	Plug
200	98-7428	1	Gasket
210	99-3447	1	Plug
220	112-8325	1	Washer
230	98-9416	1	Switch-Oil



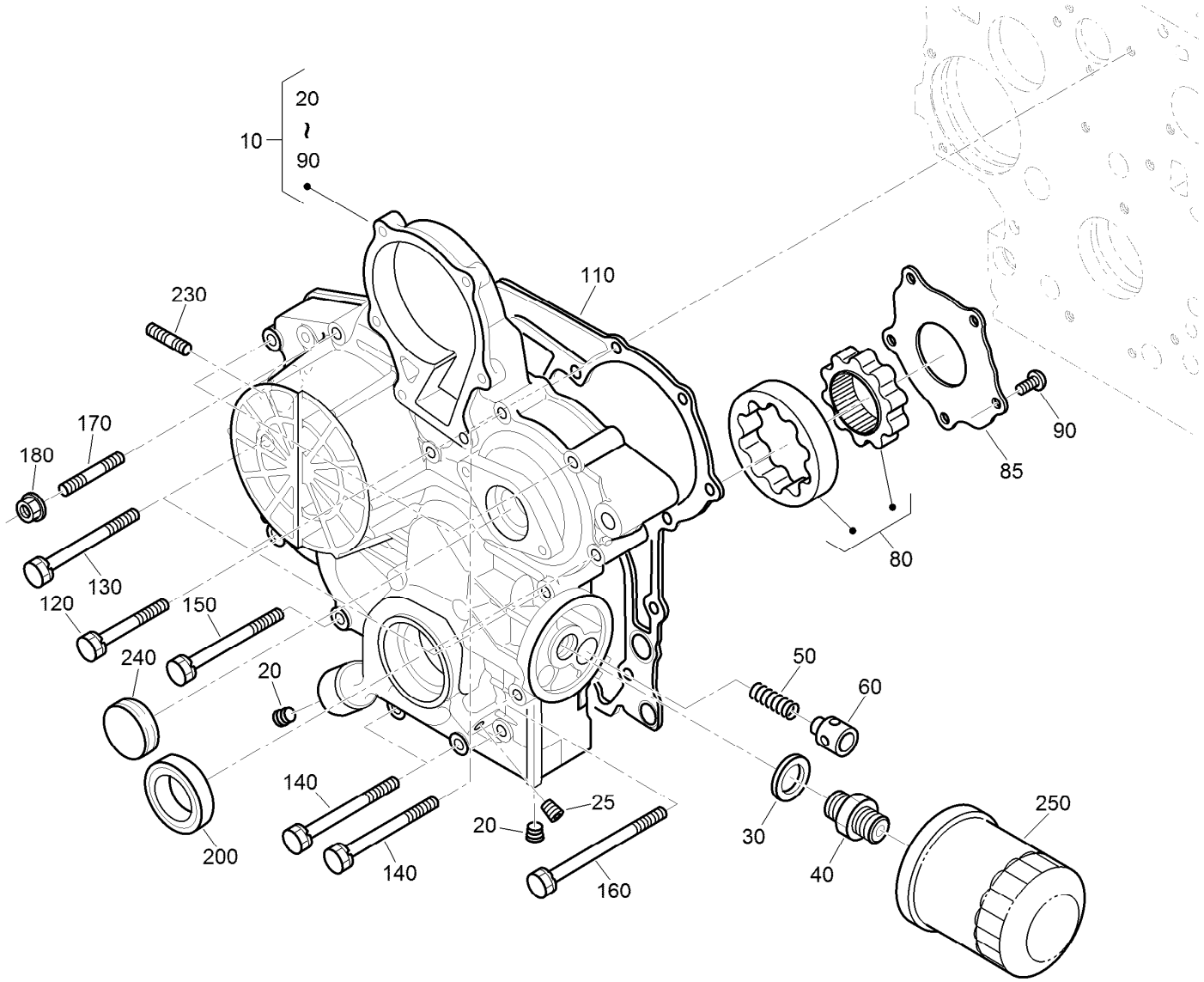
Oil Pan and Dipstick Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9685	1	Pan-Oil
30	98-9351	20	Bolt
35	98-9351	2	Bolt
40	114-8151	2	Plug-Drain
50	98-7524	2	Gasket
60	108-1401	1	Base-Filter
70	98-7526	1	Bolt
80	105-3776	1	O-Ring
90	104-9348	1	Gauge-Oil
100	105-4580	1	Guide-Gauge, Oil
110	110-3720	1	Plug-Gauge, Oil



Cylinder Head Assembly

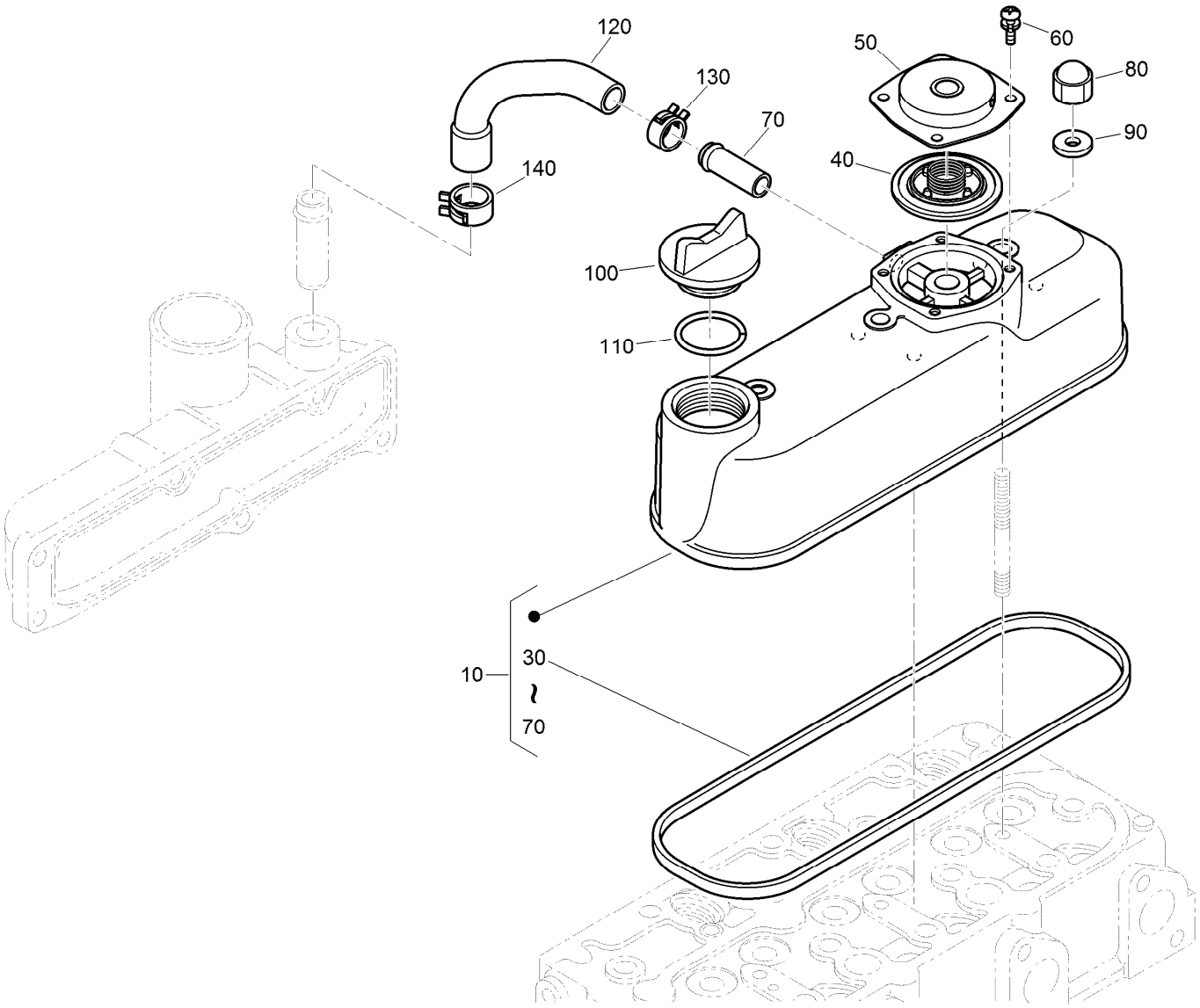
Ref.	*Part Number*	*Qty.*	*Description*
10	130-1231	1	Hook-Engine
20	98-9478	1	Hook-Engine
30	100-9195	2	Bolt
40	130-1544	1	Cylinder Head ASM
50	105-3705	1	Cap-Sealing
60	98-9687	2	Plug
70	107-9066	3	Guide-Valve, Inlet
80	107-9067	3	Guide-Valve, Exhaust
90	98-9389	2	Cap-Sealing
100	98-9479	12	Bolt-Head, Cylinder
105	98-9647	2	Bolt-Head, Cylinder
110	108-6573	1	Gasket-Head, Cylinder
120	98-9444	1	Plug



Gear Case and Oil Filter Cartridge Assembly

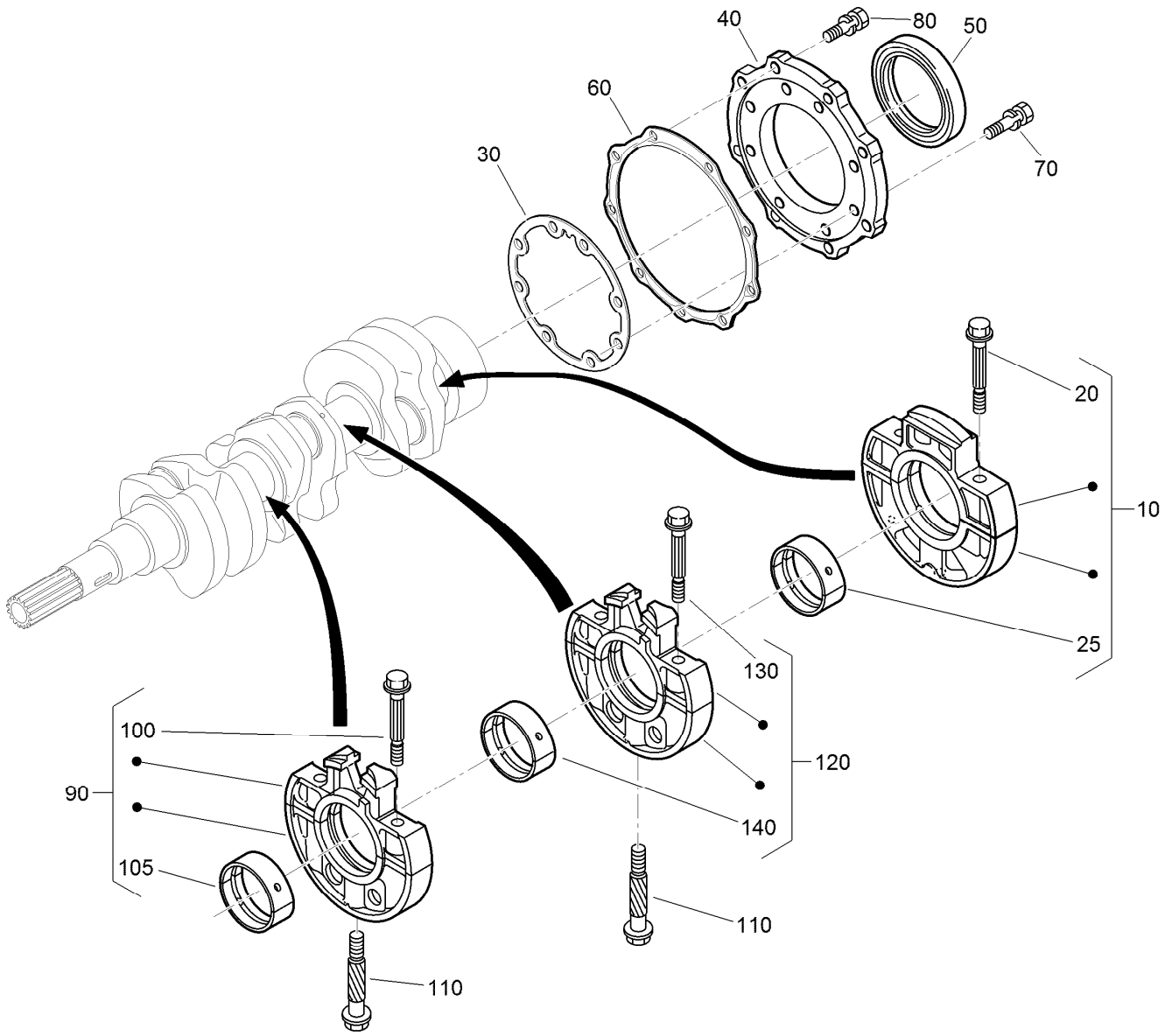
Ref.	Part Number	Qty.	Description
10	115-4105	1	Gear Case ASM
20	127-0425	2	Plug
25	98-7487	1	Plug
30	98-7562	1	Washer-Plain
40	98-9388	1	Joint-Pipe
50	130-1511	1	Spring
60	130-1510	1	Valve-Relief
80	130-1508	1	Rotor ASM
85	130-1509	1	Cover-Pump, Oil
90	130-1164	5	Screw-Binding
110	98-9633	1	Gasket-Case, Gear

Ref.	Part Number	Qty.	Description
120	100-1765	3	Bolt
130	125-9063	4	Bolt-Sems
140	98-9356	4	Bolt
150	107-9074	1	Bolt
160	99-3510	1	Bolt
170	105-3709	1	Stud
180	100-2203	1	Nut-Flange
200	119-8038	1	Seal-Oil
230	105-3710	2	Stud
240	99-3515	1	Plug-Gearcase
250	108-3841	1	Filter-Oil



Cylinder Head Cover Assembly

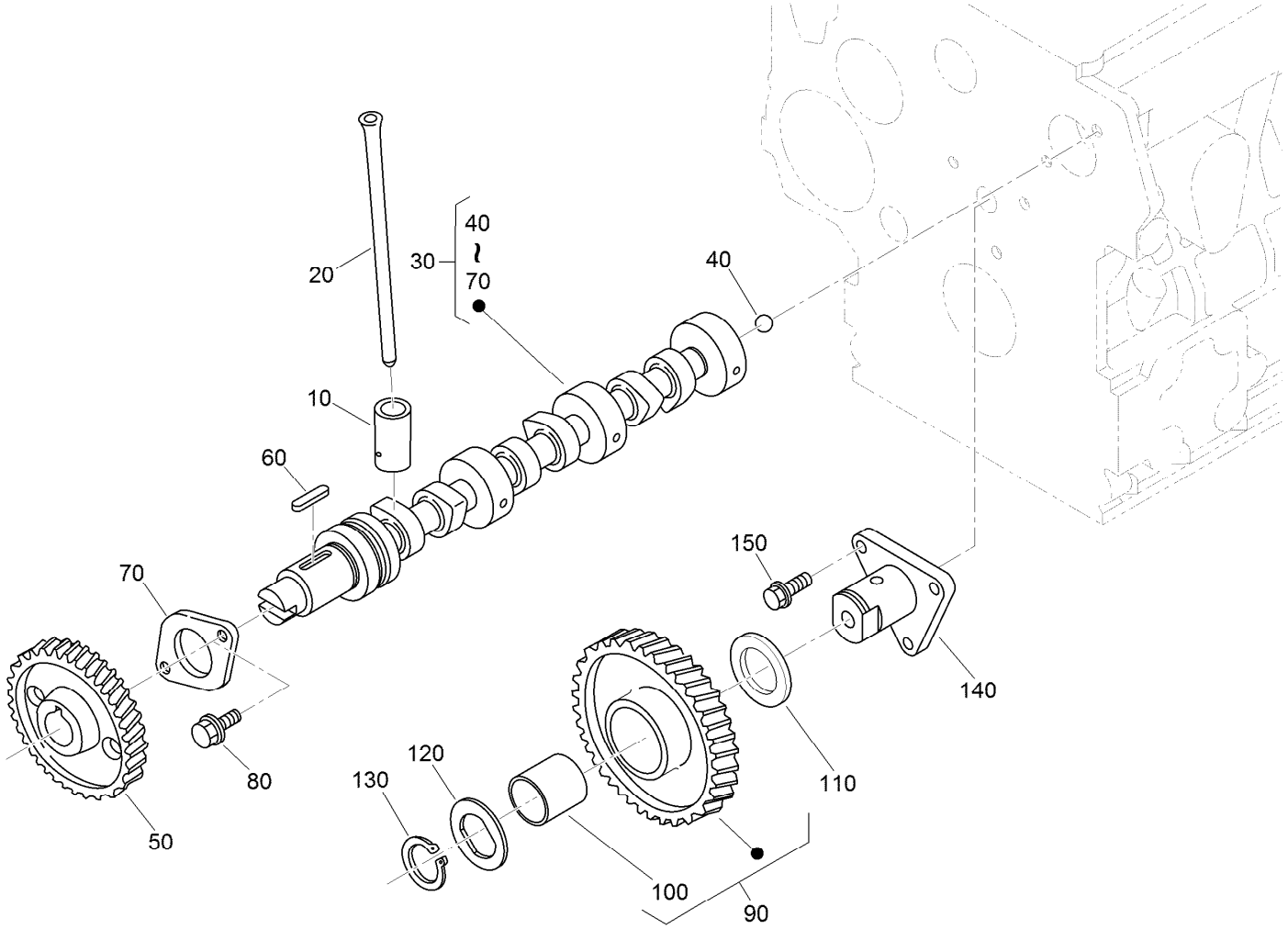
Ref.	*Part Number*	*Qty.*	*Description*
10	139-4544	1	Cylinder Cover ASM
30	98-9615	1	Gasket-Cover, Head
40	110-3715	1	Valve-Breather
50	110-3714	1	Cover-Breather
60	98-9364	4	Screw (With Washer)
70	98-7766	1	Pipe-Return, Water
80	98-9455	3	Nut-Cap
90	98-9454	3	Gasket
100	107-9075	1	Plug-Filler, Oil
110	131-3834	1	O Ring
120	139-4545	1	Tube-Breather
130	108-2859	1	Clamp-Hose
140	108-2860	1	Clamp-Hose



Main Bearing Case Assembly

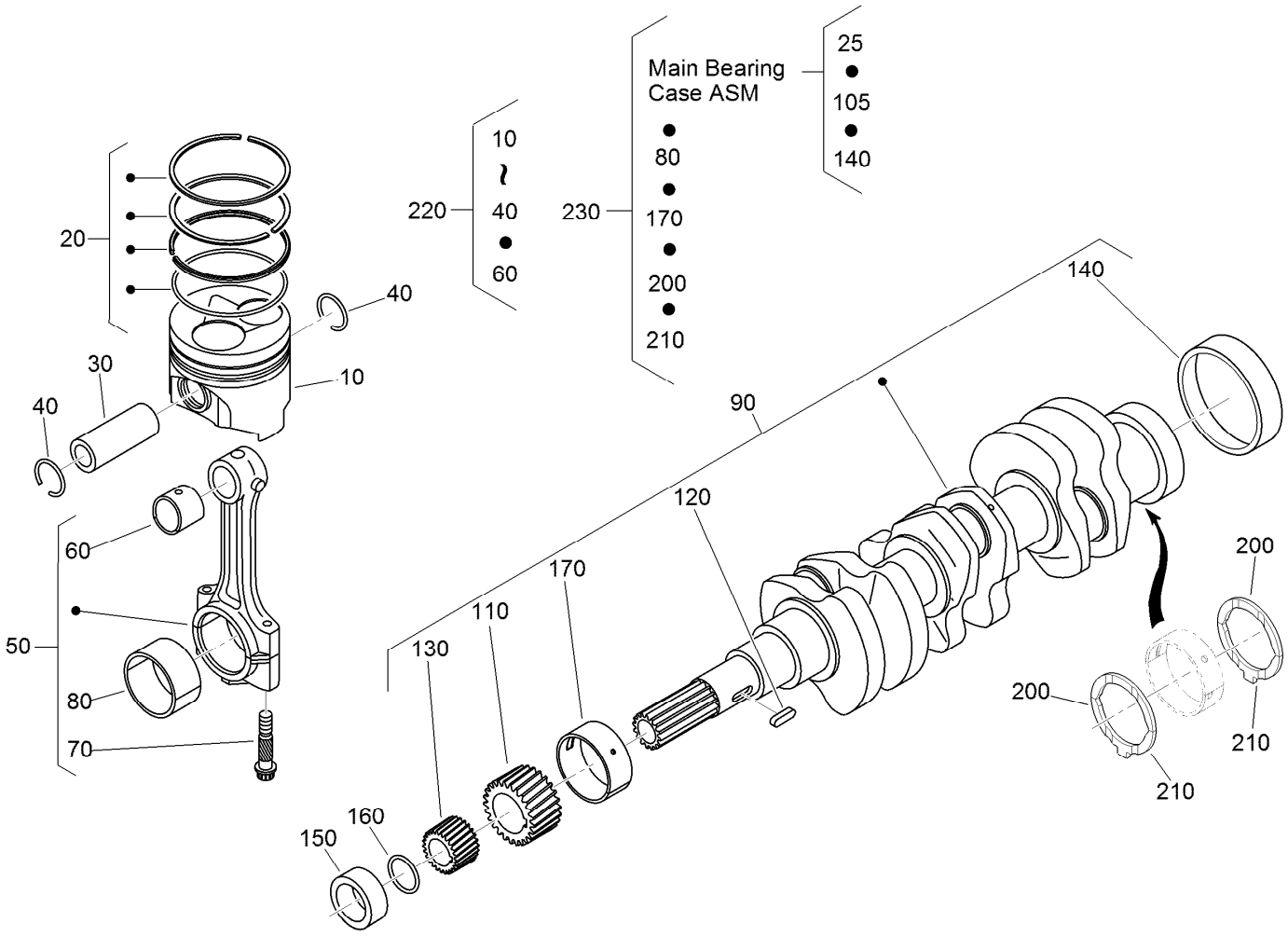
Ref.	Part Number	Qty.	Description
10	139-4546	1	Bearing Case ASM
20	98-9484	2	Bolt-Case, Bearing
25	115-4121	1	Metal-Crankshaft (STD)
25	112-7039	1	Metal-Crankshaft (0.2Mm)
25	112-7040	1	Metal-Crankshaft (-0.4Mm)
30	131-6554	1	Gasket-Case, Bearing
40	112-7046	1	Cover-Case, Bearing
50	112-0180	1	Seal-Oil
60	112-7037	1	Gasket-Cover, Case
70	127-0441	8	Bolt
80	140-2467	9	Bolt

Ref.	Part Number	Qty.	Description
90	115-4106	1	Main Bearing Case ASM
100	98-9484	2	Bolt-Case, Bearing
105	98-9524	1	Metal-Crankshaft (STD Set)
105	127-0433	1	Metal-Crankshaft (-0.2MM)
105	98-9531	1	Bearing-Main (0.4MM)
110	98-9485	2	Bolt-Case, Bearing
120	115-4107	1	Main Bearing Case ASM
130	98-9484	2	Bolt-Case, Bearing
140	98-9524	1	Metal-Crankshaft (STD Set)
140	127-0433	1	Metal-Crankshaft (-0.2MM)
140	98-9531	1	Bearing-Main (0.4MM)



Camshaft and Idle Gear Shaft Assembly

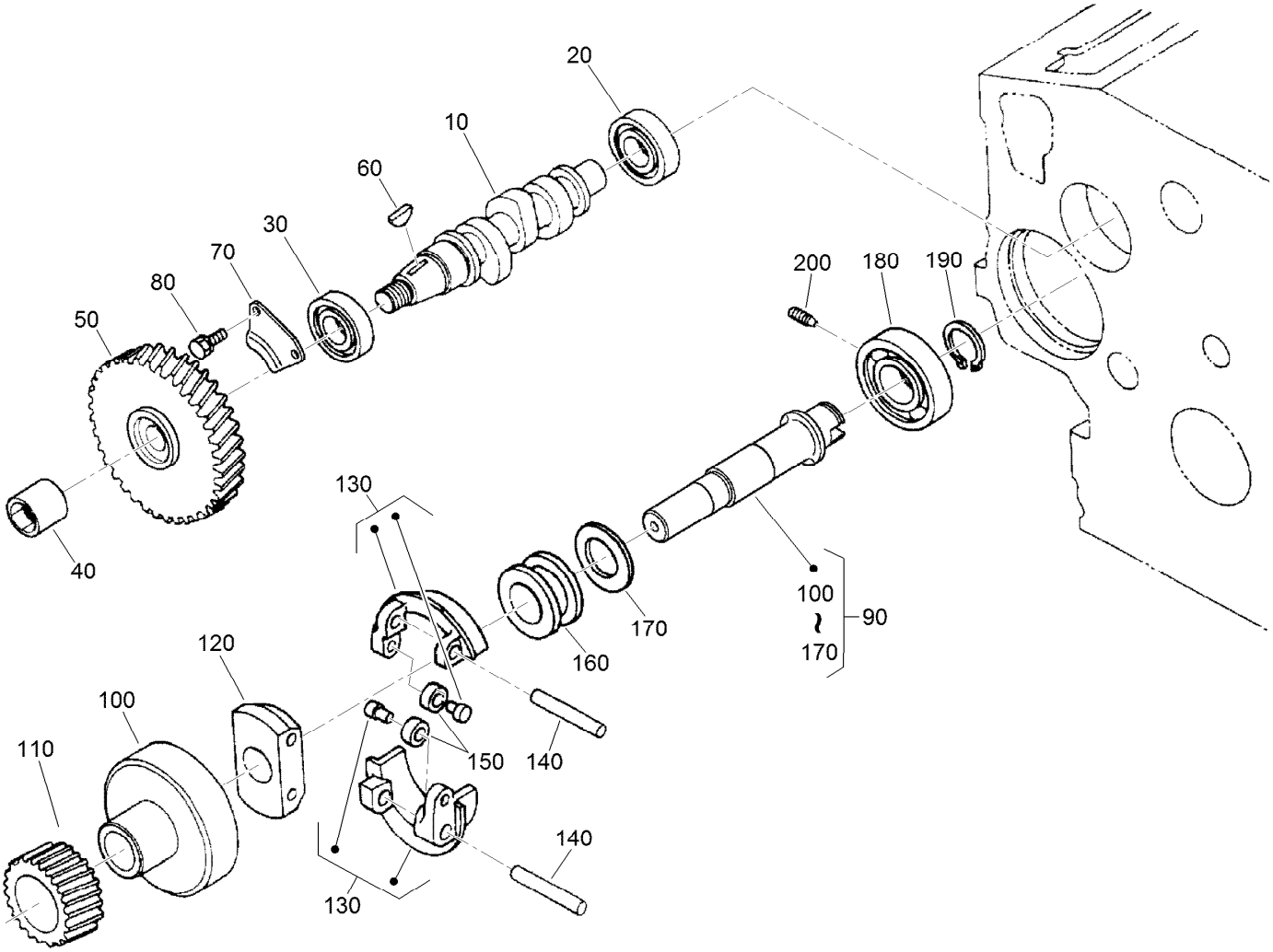
Ref.	*Part Number*	*Qty.*	*Description*
10	112-0185	6	Tappet
20	127-0421	6	Rod-Push
30	130-1545	1	Camshaft ASM
40	110-3729	1	Ball
50	120-3116	1	Camshaft ASM
60	98-9378	1	Key-Feather
70	131-6555	1	Stopper (Camshaft)
80	98-7692	2	Bolt
90	117-7584	1	Idler Gear ASM
100	117-7585	1	Bushing-Gear, Idle
110	98-9535	1	Collar-Gear, Idle
120	98-9536	1	Collar-Gear, Idle
130	98-9534	1	Circlip-Gear, Idle
140	98-9533	1	Shaft-Gear, Idle
150	98-7692	3	Bolt



Piston and Crankshaft Assembly

Ref.	Part Number	Qty.	Description
10	130-1546	3	Piston (STD)
10	130-1549	3	Piston (+0.50MM)
20	130-1506	3	Piston Ring ASM (STD)
20	130-1507	3	Piston Ring ASM (+0.50MM)
30	98-9513	3	Pin-Piston
40	98-9514	6	Circlip-Pin, Piston
50	117-7586	3	Connecting Rod ASM
60	115-3014	3	Bushing-Pin, Piston
70	98-9517	6	Bolt-Rod, Connecting
80	98-9553	3	Bearing-Rod (STD)
80	98-9519	3	Bearing-Rod (-0.2MM)
80	117-7588	3	Metal-Crankpin (-0.4MM)
90	130-1375	1	Crankshaft ASM
110	117-7561	1	Gear-Crankshaft
120	98-9666	1	Key
130	127-0445	1	Gear-Drive, Oil Pump
140	98-9522	1	Sleeve-Crankshaft
150	127-0444	1	Collar-Crankshaft

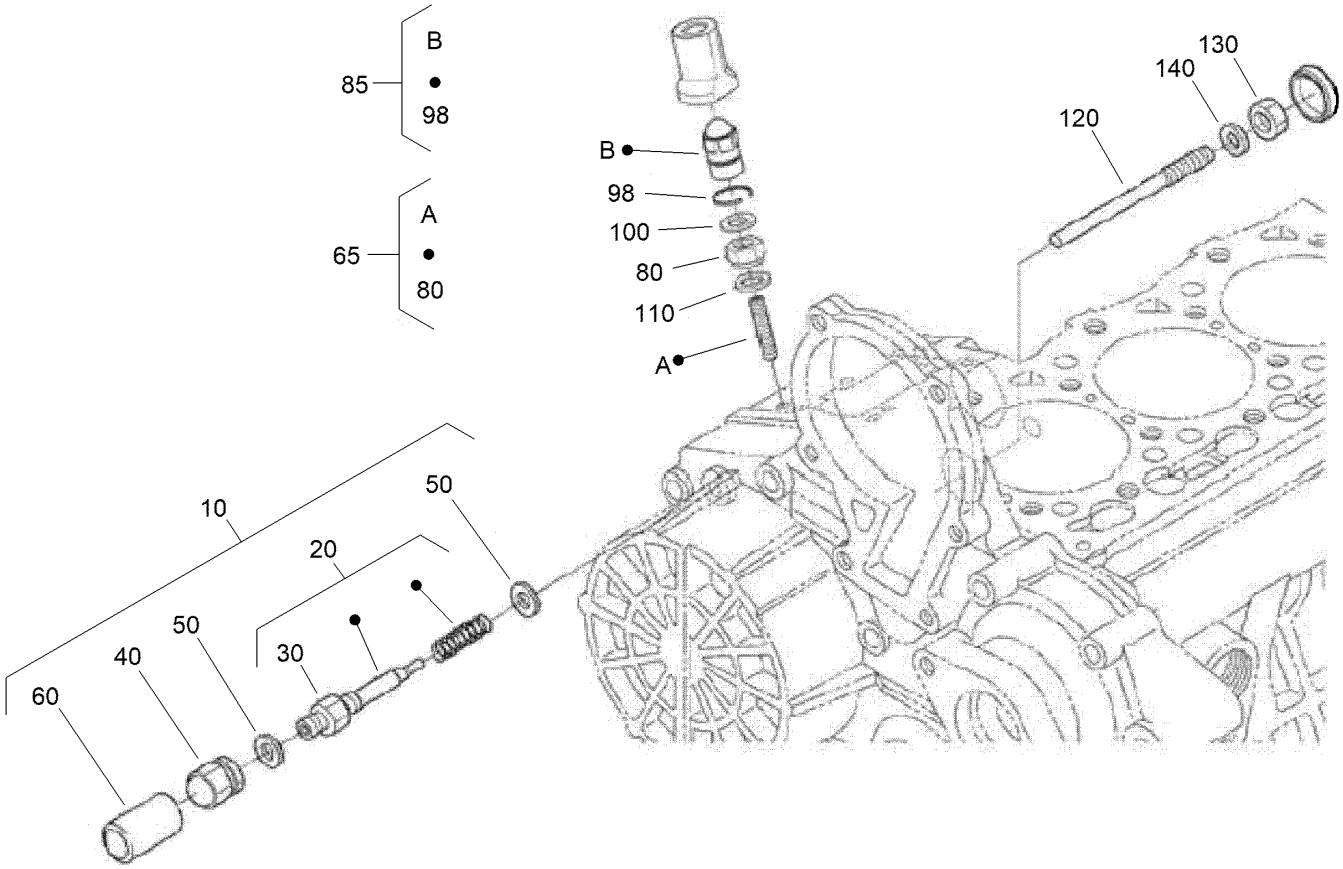
Ref.	Part Number	Qty.	Description
160	105-3783	1	O-Ring
170	112-7005	1	Bearing-Main (STD)
170	98-9528	1	Bearing-Main (-0.2MM)
170	127-0432	1	Metal-Crankshaft (-0.4MM)
200	98-9413	2	Bearing-Thrust (STD)
200	127-0416	2	Metal-Side (+0.2Mm)
200	127-0417	2	Metal-Side (+0.40Mm)
210	98-9688	2	Bearing-Thrust (STD)
210	127-0437	2	Metal-Side (+0.2MM)
210	127-0438	2	Metal-Side (+0.40MM)
220	130-1547	3	Piston Kit
220	130-1548	3	Piston Kit
230	130-1501	1	Engine Metal Kit (STD)
230	130-1498	1	Engine Metal Kit (-0.20Mm/+0.20Mm)
230	130-1499	1	Engine Metal Kit (-0.40Mm/+0.40Mm)



Fuel Camshaft and Governor Shaft Assembly

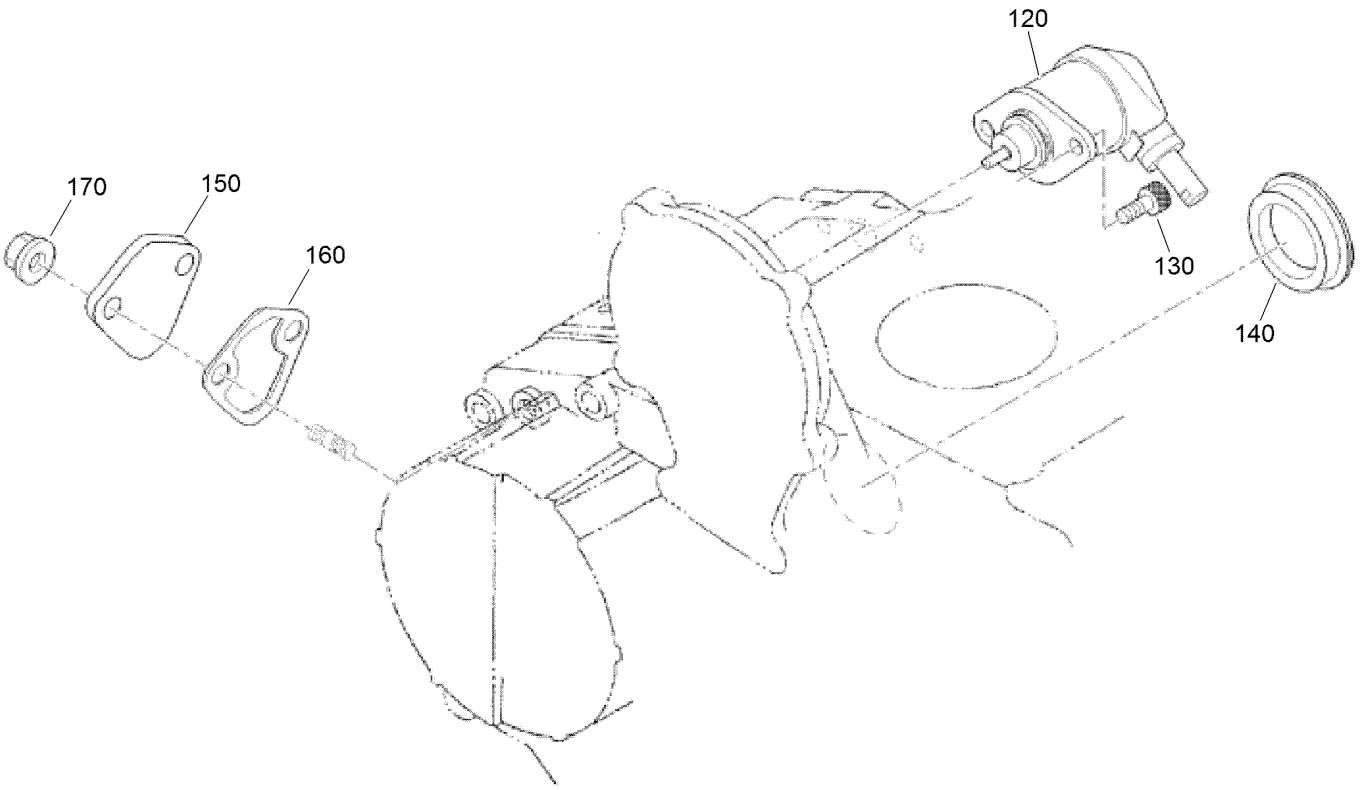
Ref.	Part Number	Qty.	Description
10	139-4547	1	Camshaft-Fuel
20	107-9077	1	Bearing-Ball
30	107-9078	1	Bearing-Ball
40	130-1512	1	Nut
50	120-2562	1	Gear-Pump, Injection
60	98-9595	1	Key-Woodruff
70	98-9511	1	Stopper-Fuel, Camshaft
80	98-7692	2	Bolt
90	98-9644	1	Governor Shaft ASM
100	98-9562	1	Holder-Gear, Governor

Ref.	Part Number	Qty.	Description
110	98-9673	1	Gear-Governor
120	98-9561	1	Holder-Weight, Governor
130	98-9559	2	Governor Weight ASM
140	98-9560	2	Shaft-Weight, Governor
150	98-9692	2	Roller
160	98-9563	1	Sleeve-Governor
170	98-9564	1	Washer-Thrust
180	107-9079	1	Bearing-Ball
190	98-9657	1	Circlip-Shaft, Governor
200	98-9565	1	Screw-Set



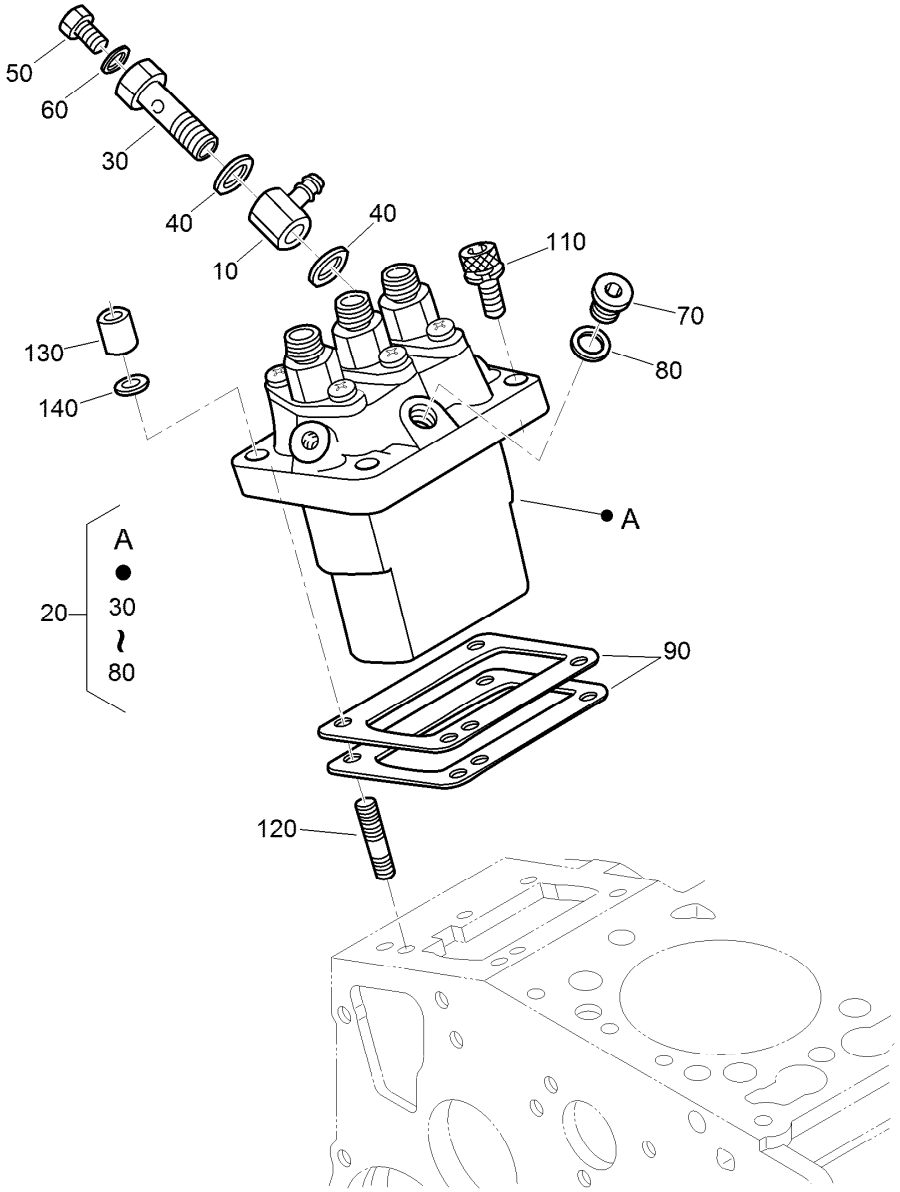
Idle Apparatus and Stop Solenoid Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9678	1	Idle Apparatus ASM
20	112-7014	1	Adjusting Bolt ASM
30	98-9439	1	Nut
40	112-0181	1	Nut
50	98-7654	2	Gasket
60	98-7656	1	Cap
65	140-2470	1	Adjusting Bolt ASM
80	139-4548	1	Nut-Lock
85	140-2471	1	Cap Nut ASM
98	140-2472	1	Circlip-Int
100	98-7654	1	Gasket
110	107-9081	1	Gasket
120	131-6556	1	Bolt
130	98-7572	1	Nut
140	98-7654	1	Gasket



Solenoid Assembly

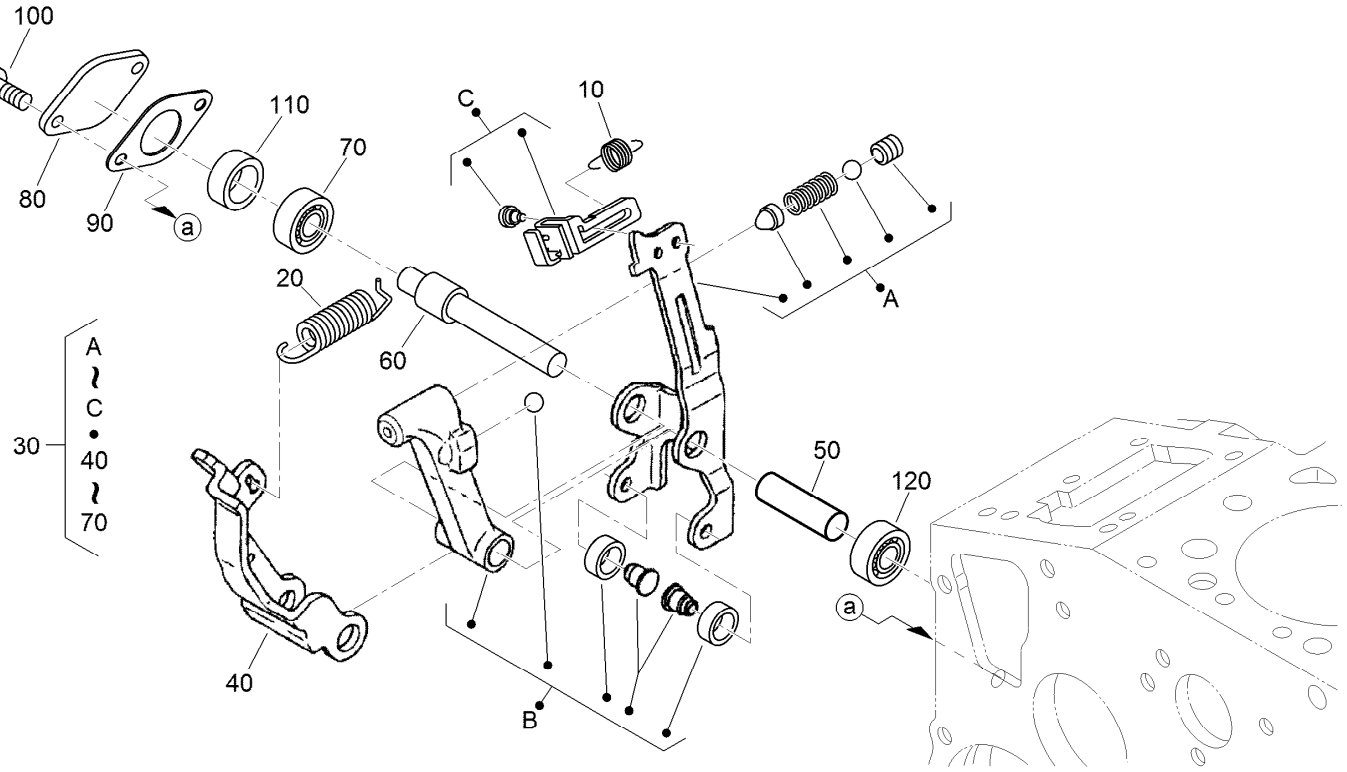
Ref.	*Part Number*	*Qty.*	*Description*
120	104-5155	1	Solenoid-Stop
130	130-1155	2	Screw-HSH
140	112-7016	1	Cover-Pump
150	99-3514	1	Cover
160	117-7562	1	Gasket-Pump, Fuel
170	100-2203	2	Nut-Flange



Injection Pump Assembly

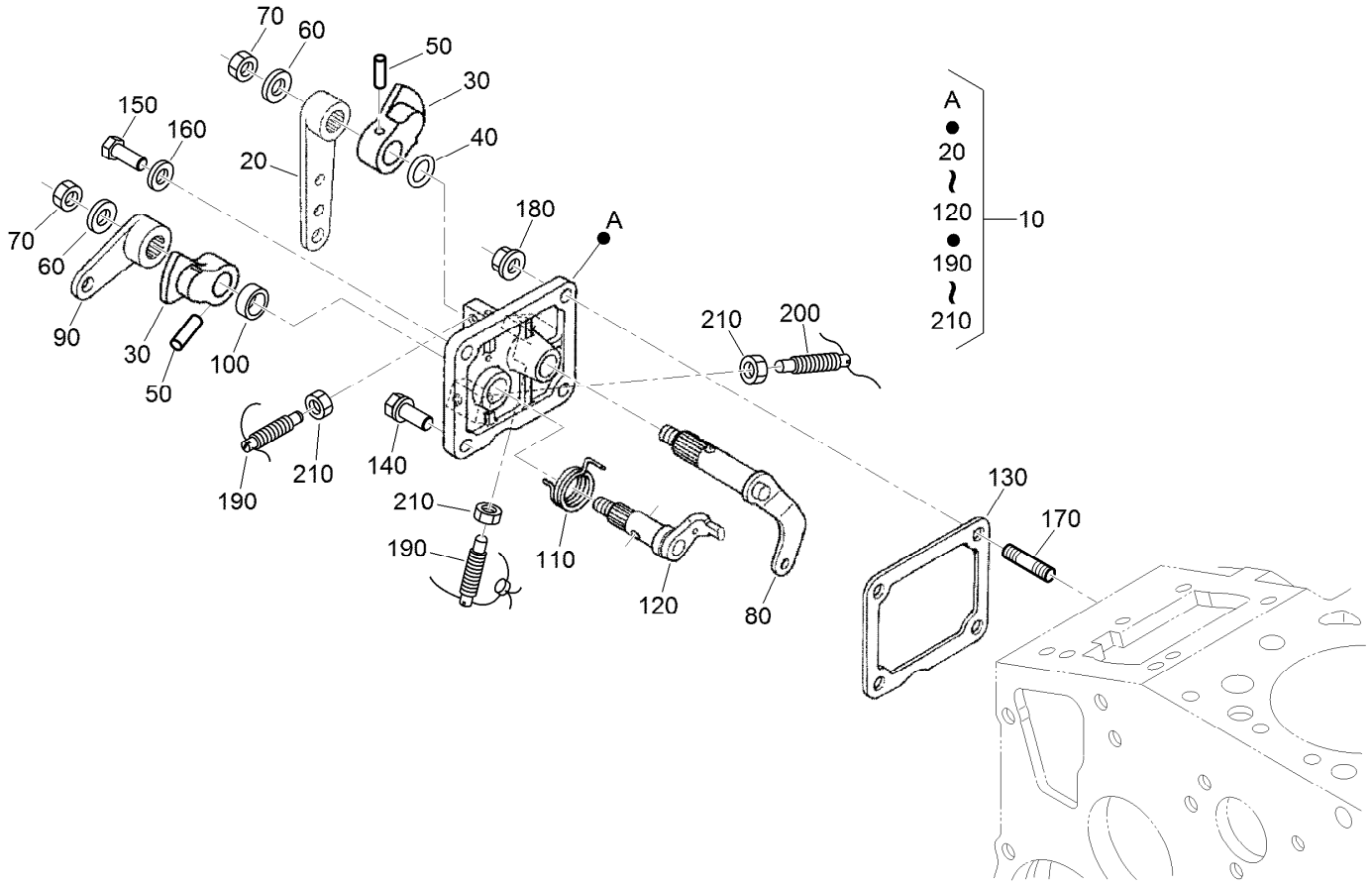
Ref.	Part Number	Qty.	Description
10	139-4549	1	Joint-Eye
20	98-9643	1	Injection Pump ASM
30	98-9464	1	Bolt-Joint
40	98-9445	2	Gasket
50	98-9430	1	Screw
60	98-9446	1	Gasket
70	98-9466	1	Plug
80	98-9451	1	Gasket
90	98-9456	1	Shim-Injection (0.20MM)

Ref.	Part Number	Qty.	Description
90	98-9457	1	Shim-Injection (0.25MM)
90	98-9458	1	Shim-Injection (0.30MM)
90	115-3046	1	Shim-Injection (0.35MM)
90	115-3045	1	Shim-Injection (0.175MM)
110	117-7564	2	Bolt-Hex Soc HD
120	98-9438	2	Stud
130	98-9440	2	Nut-Cap
140	98-7699	2	Washer-Spring



Governor Assembly

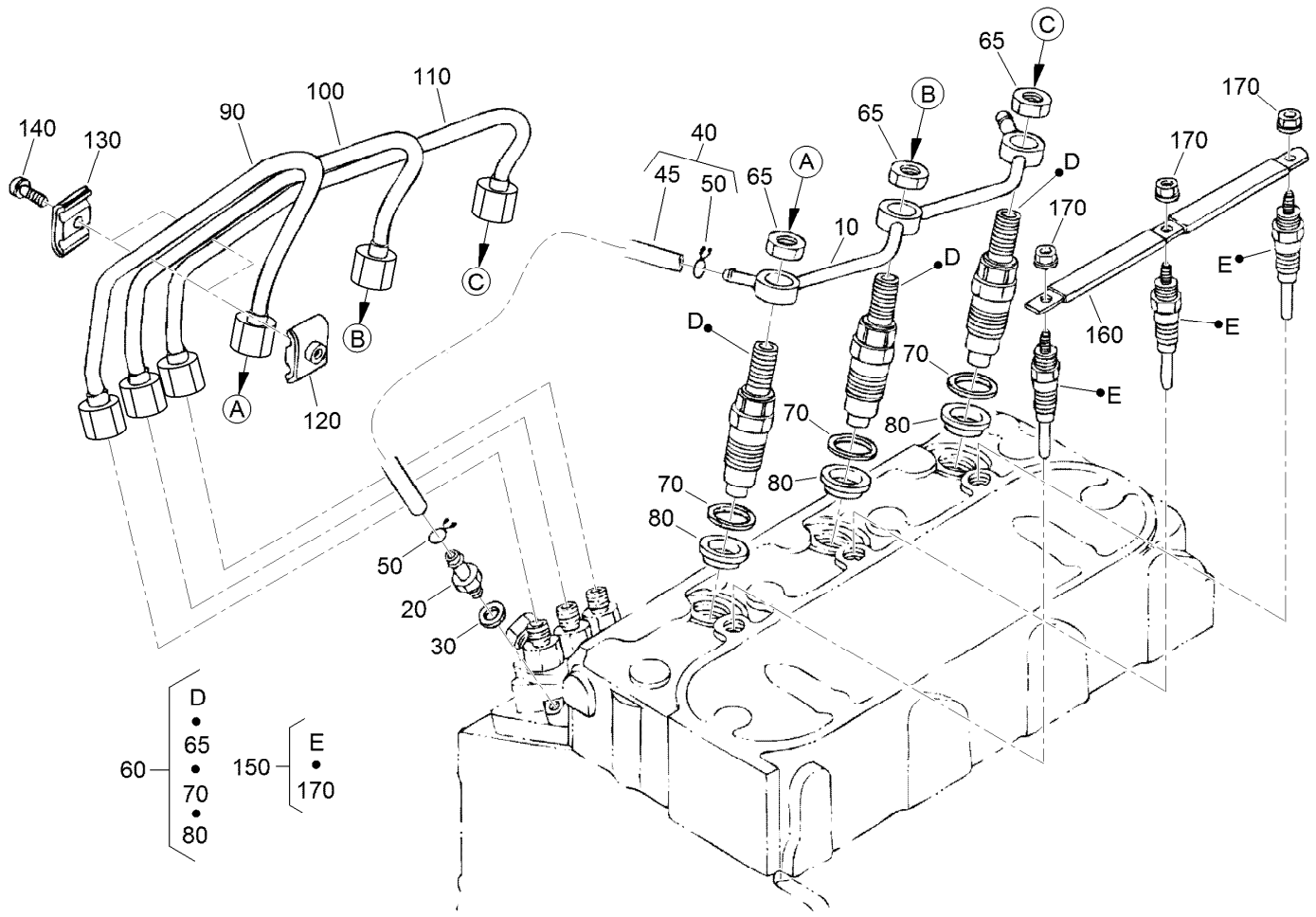
Ref.	*Part Number*	*Qty.*	*Description*
10	105-3786	1	Spring-Start
20	98-9681	1	Spring-Governor
30	145-2812	1	Fork Lever ASM
40	107-9084	1	Lever-Fork
50	107-9085	1	Shaft-Lever, Fork
60	107-9086	1	Shaft-Lever, Fork
70	98-9570	1	Bearing-Miniaturize
80	115-4122	1	Cover-Shaft, Fork Lever
90	98-9682	1	Gasket
100	98-9350	2	Bolt
110	98-9567	1	Collar
120	98-9571	1	Bearing-Miniaturize



Speed Control Plate Assembly

Ref.	Part Number	Qty.	Description
10	105-3735	1	Control Plate ASM
20	98-9662	1	Lever-Control, Speed
30	98-9572	2	Lever-Control, Speed
40	105-3788	1	O-Ring
50	98-7602	2	Pin-Spring
60	98-9594	2	Washer-Plain
70	98-9589	2	Nut
80	98-9658	1	Governor Lever ASM
90	98-9663	1	Lever-Stop, Engine
100	98-7601	1	Seal-Oil
110	98-9472	1	Spring-Return

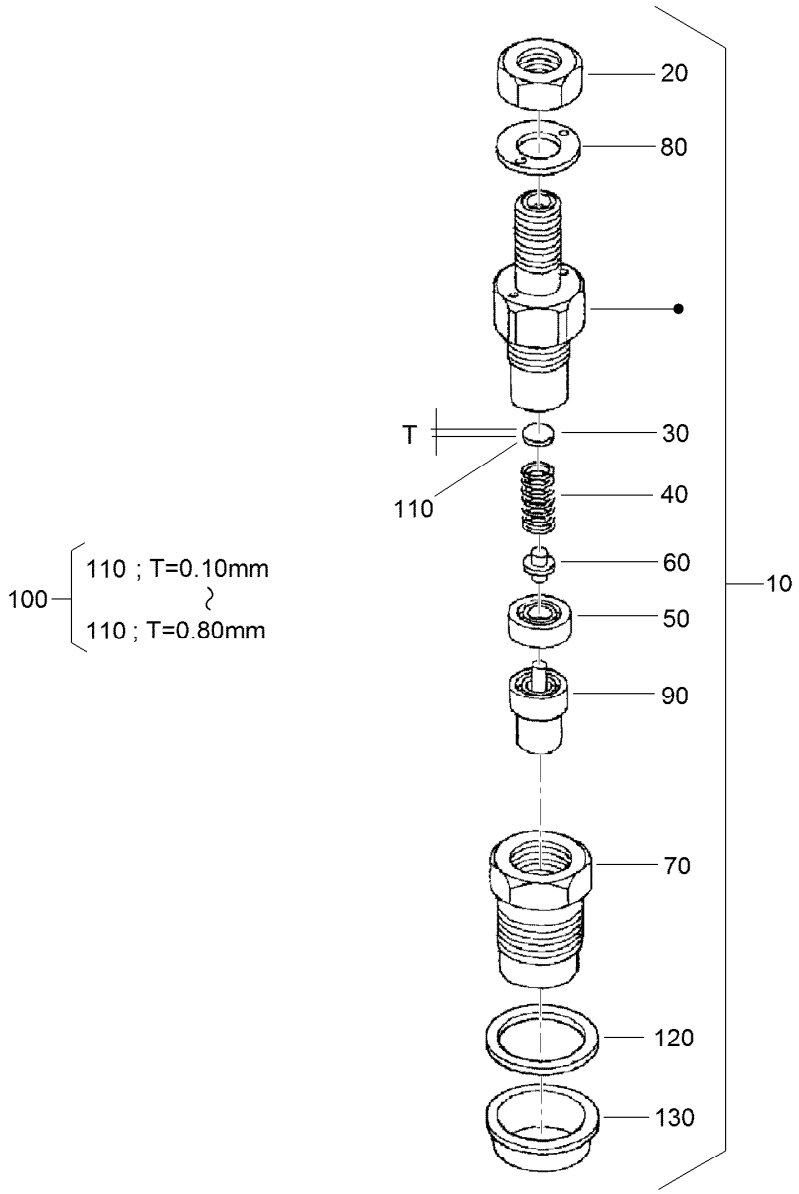
Ref.	Part Number	Qty.	Description
120	98-9664	1	Shaft-Lever, Stop
130	98-9637	1	Gasket
140	98-7692	1	Bolt
150	127-0401	1	Bolt-Hex
160	98-7654	1	Gasket
170	105-3710	2	Stud
180	100-2203	2	Nut-Flange
190	117-7565	2	Bolt-Adjusting
200	117-7566	1	Bolt-Adjusting
210	98-7572	3	Nut



Nozzle Holder and Glow Plug Assembly

Ref.	Part Number	Qty.	Description
10	98-9620	1	Overflow Pipe ASM
20	98-9431	1	Screw-Bleeder, Air
30	98-7654	1	Gasket
40	140-2456	1	Overflow Pipe ASM
45	140-2457	1	Pipe-Overflow
50	98-7671	2	Clip-Pipe
60	115-3018	3	Nozzle Holder Kit
65	121-2411	3	Nut
70	98-7676	3	Gasket
80	98-7677	3	Seal-Heat

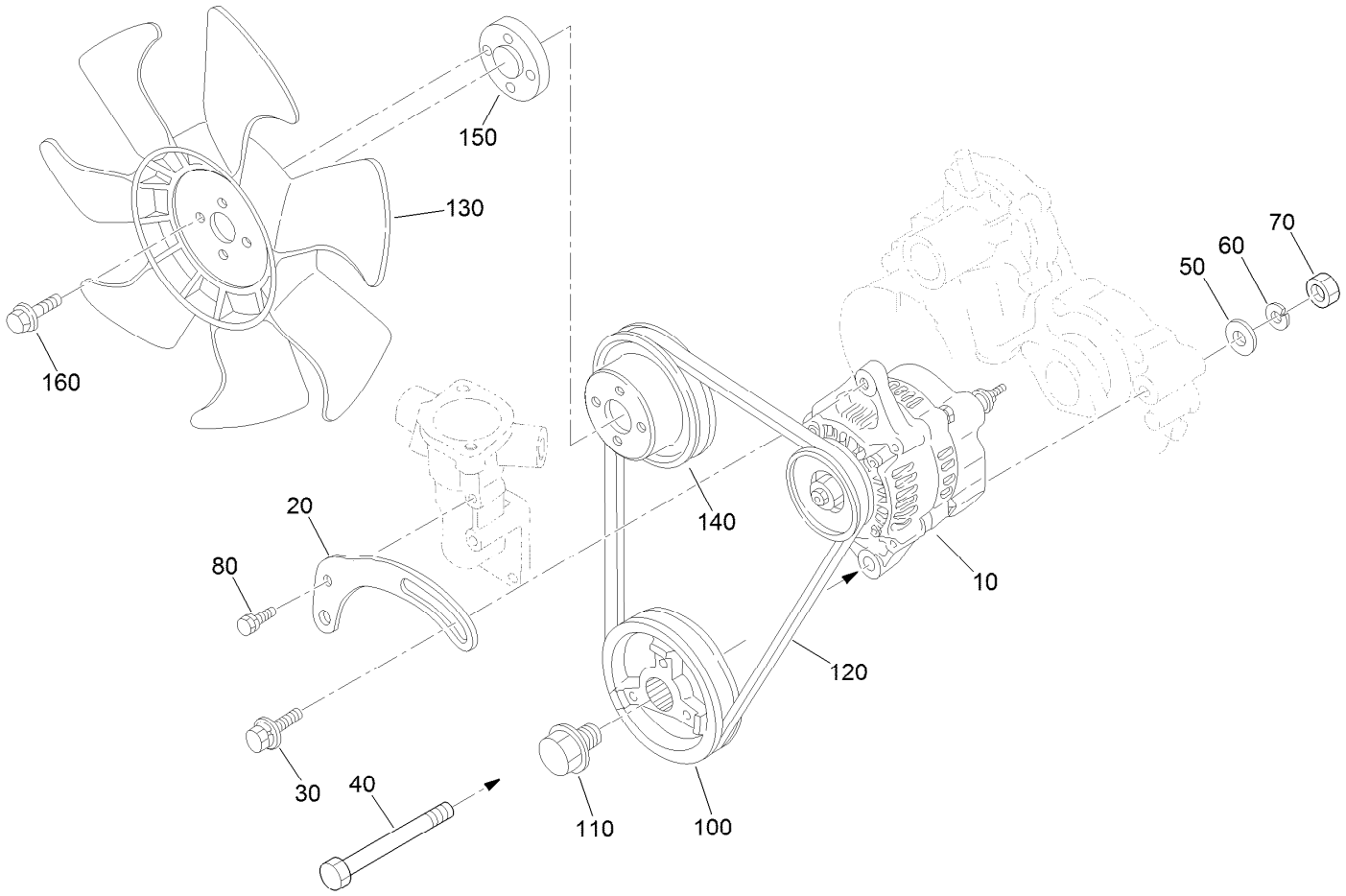
Ref.	Part Number	Qty.	Description
90	98-9622	1	Pipe-Injection
100	98-9654	1	Pipe-Injection
110	98-9655	1	Pipe-Injection
120	98-7682	2	Clamp-Pipe
130	98-7683	2	Clamp-Pipe
140	98-7684	2	Screw (W/Washer)
150	130-1411	3	Plug-Glow
160	98-9631	1	Cord-Plug, Glow
170	99-8377	3	Nut-Flange



Nozzle Holder Assembly

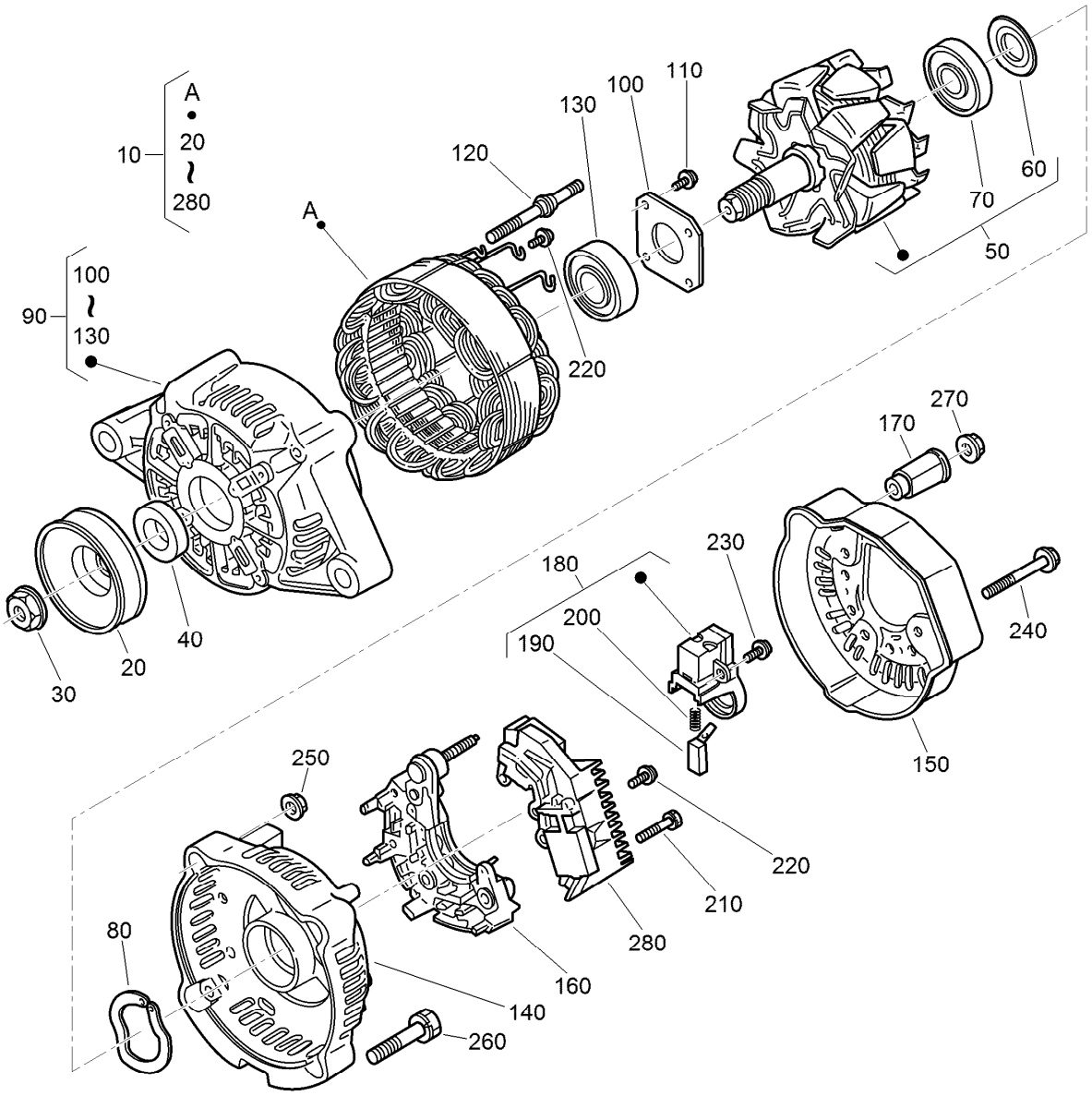
Ref.	Part Number	Qty.	Description
10	115-3018	3	Nozzle Holder Kit
20	121-2411	3	Nut
30	99-8302	3	Washer-Adjusting
40	99-8303	3	Spring-Nozzle
50	99-8304	3	Spacer-Distance
60	99-8305	3	Rod-Push
70	99-8306	3	Nut-Nozzle
80	99-8307	3	Washer-Plain
90	115-3020	3	Piece-Nozzle
100	99-8309	3	Adjusting Washer ASM
110	99-8310	3	Washer-Adjust (0.10MM)

Ref.	Part Number	Qty.	Description
110	99-8311	3	Washer-Adjust (0.20MM)
110	99-8312	3	Washer-Adjust (0.30MM)
110	99-8313	3	Washer-Adjust (0.40MM)
110	99-8314	3	Washer-Adjust (0.50MM)
110	99-8315	3	Washer-Adjust (0.52MM)
110	99-8316	3	Washer-Adjust (0.54MM)
110	99-8317	3	Washer-Adjust (0.56MM)
110	99-8318	3	Washer-Adjust (0.58MM)
110	99-8319	3	Washer-Adjust (0.80MM)
120	98-7676	3	Gasket
130	98-7677	3	Seal-Heat



Alternator, Pulley and Fan Assembly

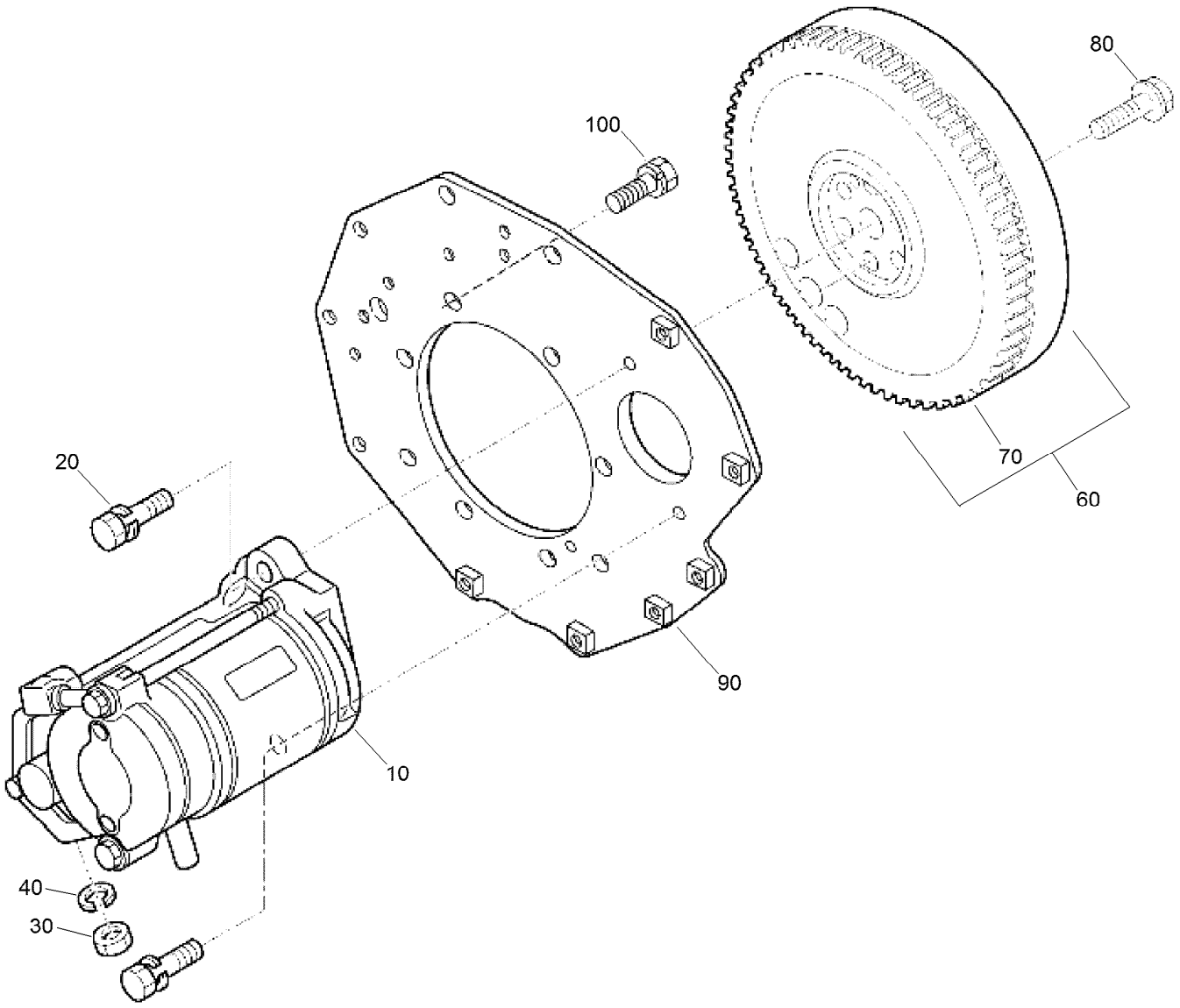
Ref.	*Part Number*	*Qty.*	*Description*
10	131-6557	1	Alternator ASM
20	112-7047	1	Stay-Dynamo
30	108-7088	1	Bolt
40	98-9360	1	Bolt
50	98-9366	1	Washer-Plain
60	98-7738	1	Washer-Spring
70	98-7737	1	Nut
80	98-7692	1	Bolt
100	98-9473	1	Pulley-Drive, Fan
110	98-9585	1	Bolt
120	104-3494	1	Belt-V
130	104-4246	1	Fan-Engine
140	130-1567	1	Pulley-Fan
150	108-2872	1	Collar-Fan
160	108-2873	4	Bolt-Flange



Alternator Assembly No. 131-6557

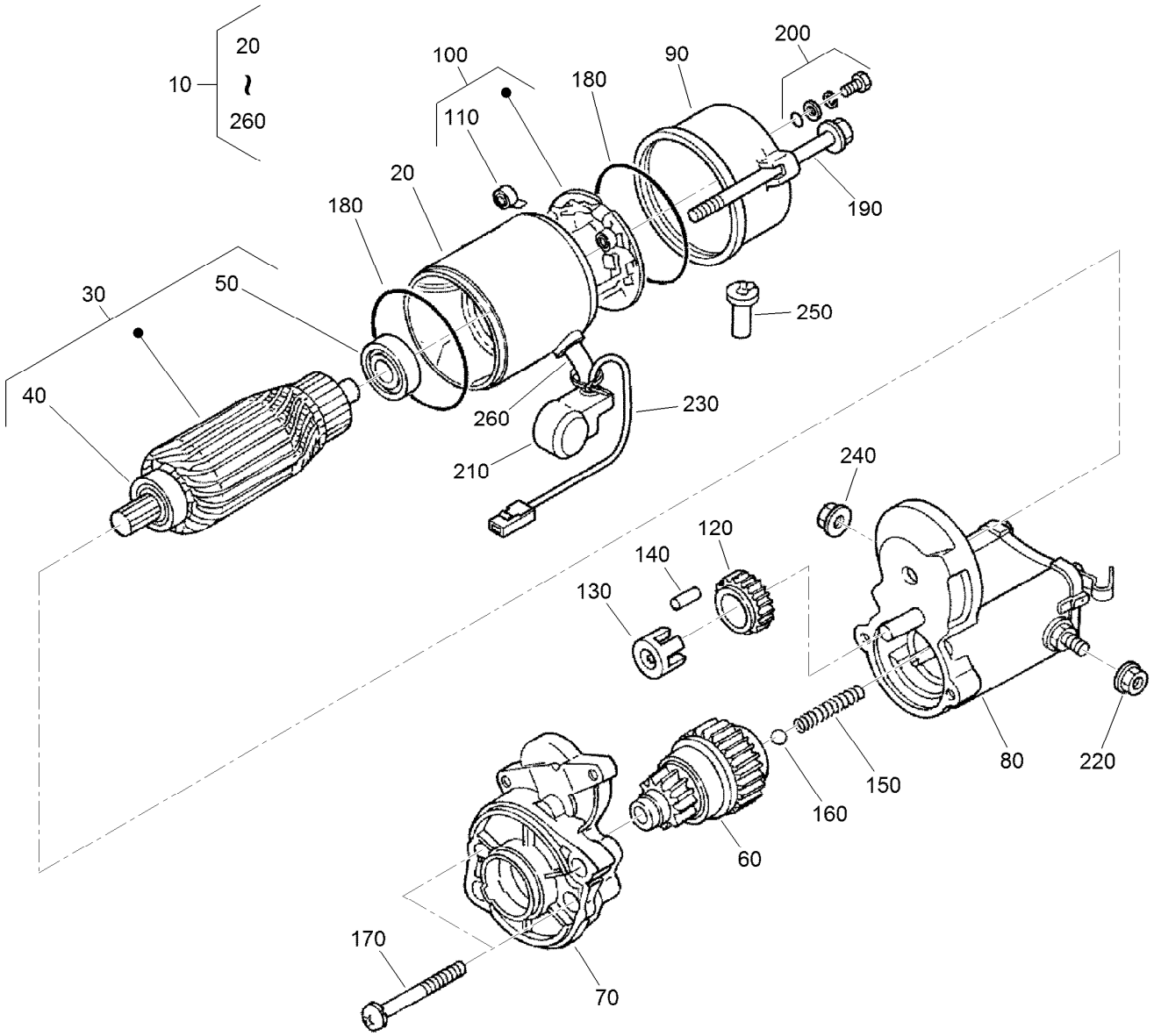
Ref.	Part Number	Qty.	Description
10	131-6557	1	Alternator ASM
20	98-9453	1	Pulley-Dynamo
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	131-6559	1	Frame-End, Drive
100	98-7715	1	Plate-Retainer
110	98-7716	4	Screw-Head, Round
120	98-7717	2	Bolt-Through
130	133-2811	1	Bearing
140	107-9087	1	Frame-End

Ref.	Part Number	Qty.	Description
150	107-0140	1	Cover-End
160	127-1612	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Brush Holder ASM
190	98-7724	2	Brush
200	98-7725	2	Spring-Brush
210	98-7726	2	Screw-Head, Round
220	98-7727	6	Screw-Head, Round
230	98-7728	1	Screw-Head, Round
240	98-7729	3	Bolt
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	140-2458	1	Regulator ASM



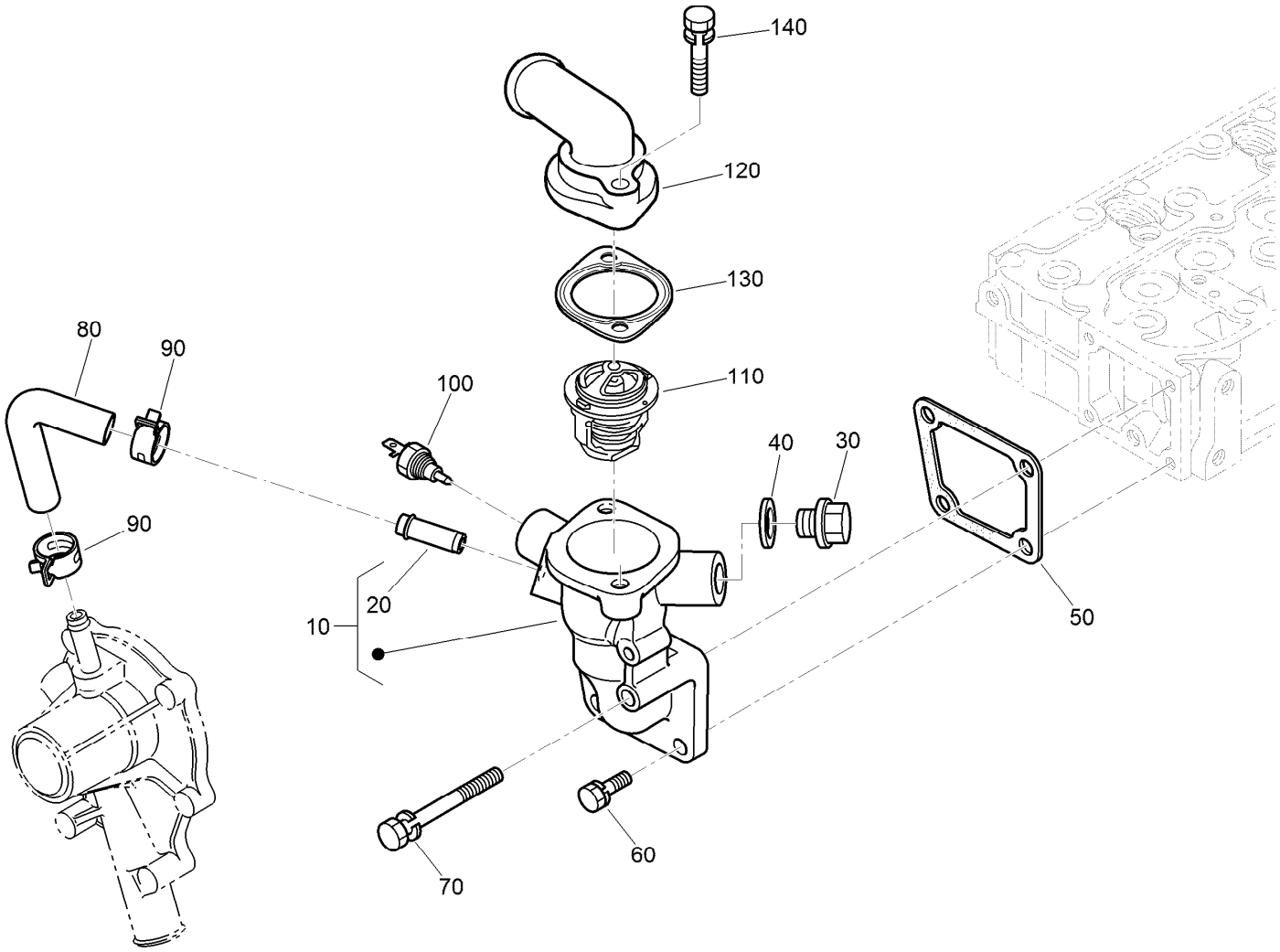
Starter and Flywheel Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9705	1	Starter ASM
20	98-7697	2	Bolt
30	98-7534	1	Nut
40	105-2893	1	Washer-Spring
60	105-3784	1	Flywheel ASM
70	115-3015	1	Gear-Ring
80	98-9537	6	Bolt-Flywheel
90	98-9486	1	Plate-End, Rear
100	98-9392	8	Bolt



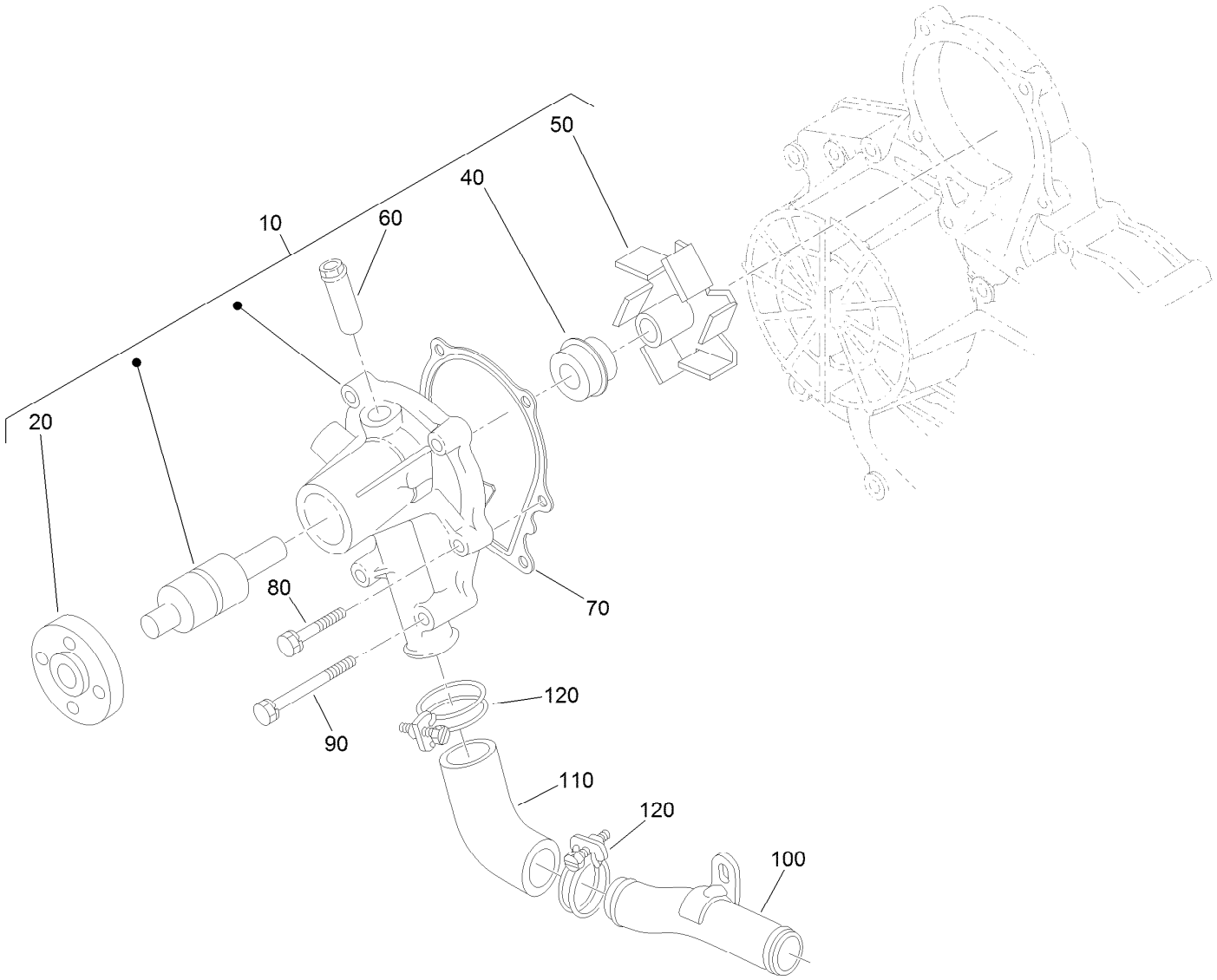
Starter Component Assembly

Ref.	Part Number	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear
130	98-7752	1	Retainer
140	98-7753	5	Roller
150	98-7754	1	Spring
160	98-7755	1	Ball
170	98-7756	2	Bolt
180	98-7757	2	O-Ring
190	100-9240	2	Bolt
200	98-7758	2	Bolt ASM
210	99-8375	1	Cover
220	99-8371	1	Nut-Hex
230	98-9711	1	Cord-Solenoid, Stop
240	99-8376	1	Nut-Hex
250	98-7759	1	Pipe-Drain
260	98-9712	1	Band-Cover



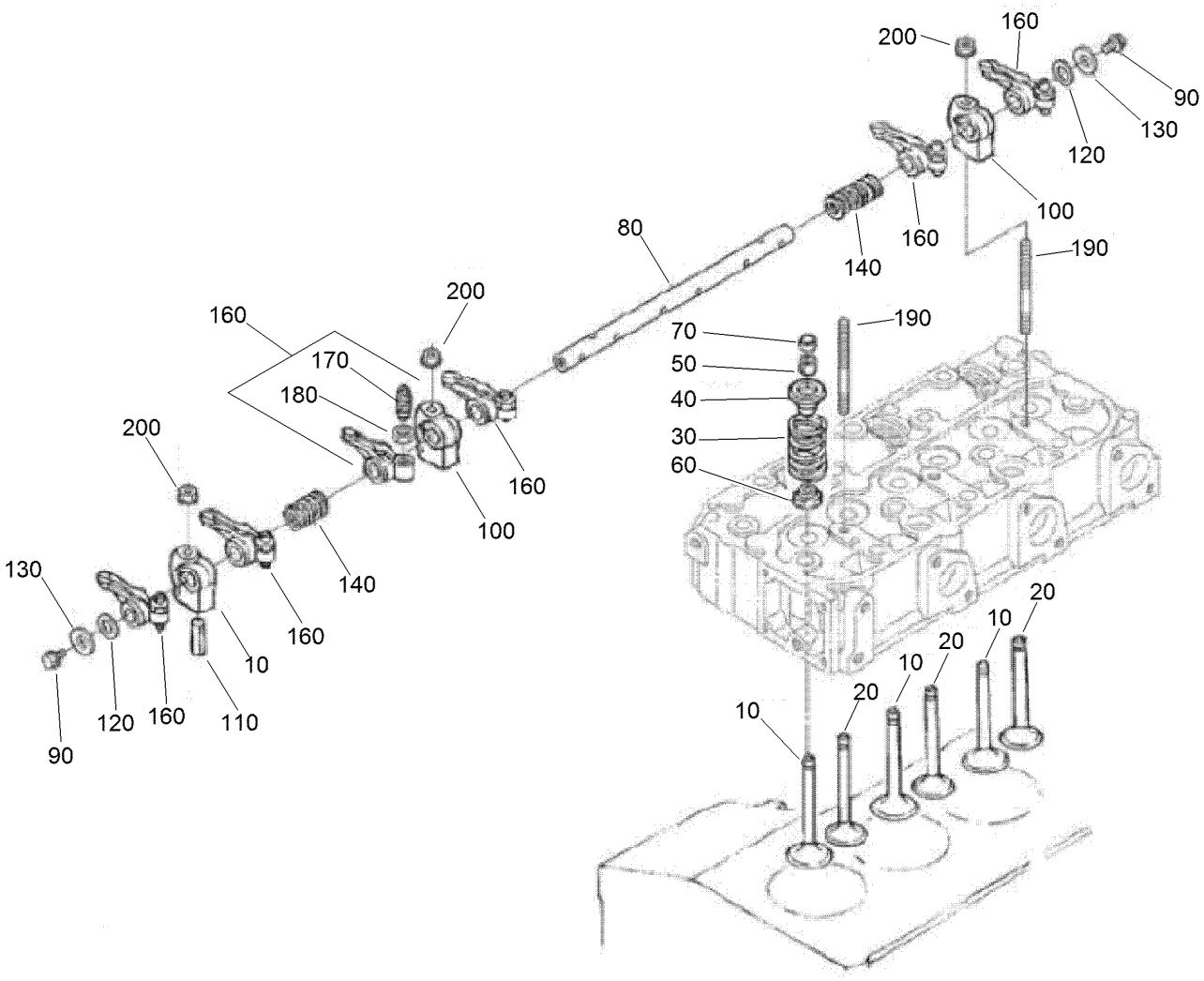
Water Flange and Thermostat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9713	1	Water Flange ASM
20	98-9580	1	Pipe-Return, Water
30	105-3747	1	Plug
40	99-3583	1	Gasket
50	98-9638	1	Gasket-Flange, Water
60	98-7692	3	Bolt
70	98-9356	1	Bolt
80	98-9578	1	Pipe-Return, Water
90	125-9078	2	Clamp-Hose
100	98-9719	1	Thermoswitch
110	98-7778	1	Thermostat ASM
120	104-4804	1	Outlet-Water
130	105-3748	1	Gasket-Thermostat
140	98-7777	2	Bolt



Water Pump Assembly

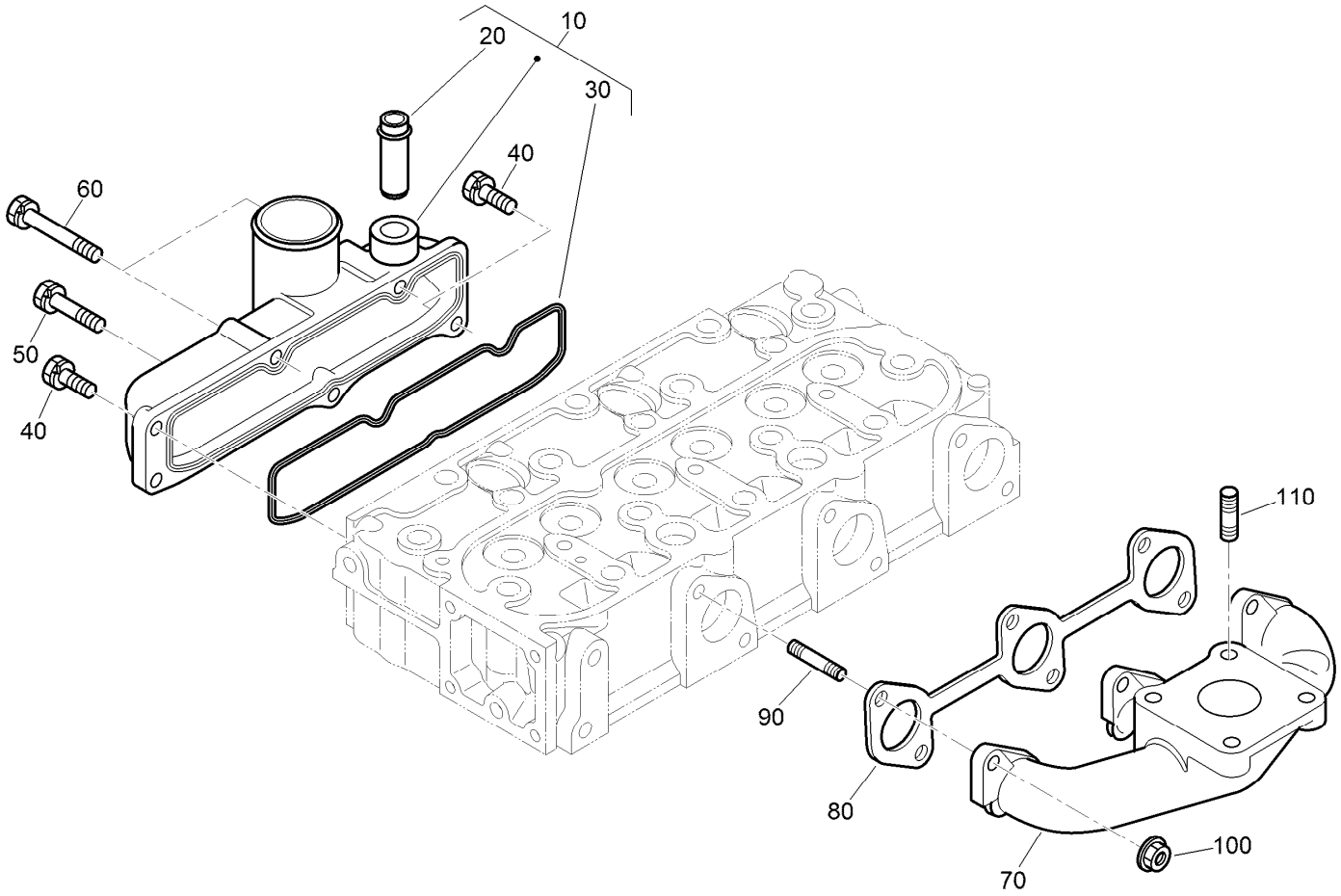
Ref.	*Part Number*	*Qty.*	*Description*
10	107-9089	1	Water Pump ASM
20	99-3516	1	Flange-Pump, Water
40	105-3750	1	Mechanical Seal ASM
50	112-7017	1	Impeller-Pump, Water
60	100-1932	1	Pipe-Return, Water
70	99-3454	1	Gasket-Pump, Water
80	98-9353	4	Bolt
90	107-9090	2	Bolt
100	98-9716	1	Pipe-Water
110	107-9091	1	Pipe-Water
120	127-0439	2	Clamp-Hose



Valve and Rocker Arm Assembly

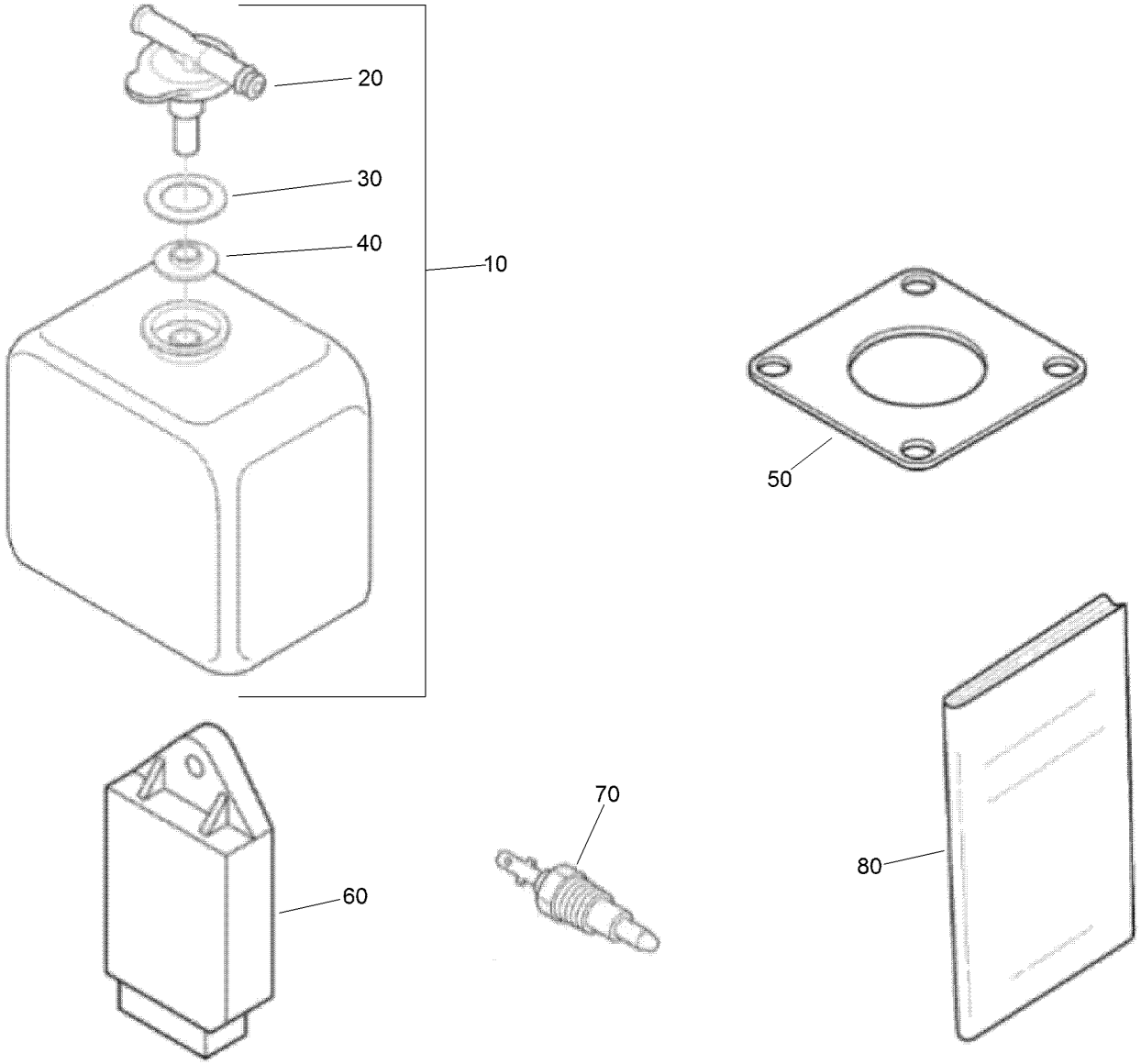
Ref.	Part Number	Qty.	Description
10	140-2459	3	Valve-Inlet
20	140-2460	3	Valve-Exhaust
30	98-9648	6	Spring-Valve
40	107-9092	6	Retainer-Spring
50	117-7572	6	Collet-Spring, Valve
60	99-8385	6	Seal-Stem, Valve
70	98-9497	6	Cap-Valve
80	130-1248	1	Shaft-Arm, Rocker
90	99-8363	2	Bolt-Flange
100	98-9505	3	Bracket-Arm, Rocker

Ref.	Part Number	Qty.	Description
110	105-3758	1	Pin-Spring
120	98-9507	2	Washer-Shaft, Rocker Arm
130	110-3832	2	Washer-Plain
140	98-9504	2	Spring-Arm, Rocker
160	112-7020	6	Rocker Arm ASM
170	98-9502	6	Screw-Adjusting
180	98-9503	6	Nut
190	98-9506	3	Stud
200	131-6563	3	Nut-Flange



Inlet and Exhaust Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-7843	1	Manifold Inlet ASM
20	98-9492	1	Joint-Pipe, Breather
30	98-9609	1	Gasket-Manifold, Inlet
40	127-0403	3	Bolt-Flange
50	98-9353	1	Bolt
60	125-9063	2	Bolt-Sems
70	107-9093	1	Manifold-Exhaust
80	99-8327	1	Gasket-Manifold, Exhaust
90	98-9588	6	Stud
100	98-9665	6	Nut
110	98-7769	4	Stud



Miscellaneous Engine Parts

Ref.	*Part Number*	*Qty.*	*Description*
10	104-9318	1	Bottle-Overflow
20	115-4132	1	Cap
30	105-3755	1	Gasket
40	105-3756	1	Plate
50	99-8343	1	Gasket-Muffler
60	140-2463	1	Controller-Glow
70	140-2462	1	Thermoswitch
80	140-2461	1	Manual-Operator

Attachments and Accessories

For 30849 — Groundsmaster 3505-D Rotary Mower

Product Name	Model/Part
Blade-High Lift	104-5183
Blade-Angle Sail	105-9810-03
Blade-Atomic	107-0235-03
27in Blade Service Pack (qty 6)	108-1462
Semi-Gloss Black Spray Paint	361-9
Blade-27in Combo	108-9026
27in Rotary Cutting Unit	30834
New Red Paint - Gallon	361-11
Leaf Mulching Kit	30836
3in Dia, 27in Sectional Roller Assembly	137-6145
Roller Scraper Kit	104-5168
Roller Asm (UHMW)	131-7800
Ballast Kit (27in C/U)	136-2881
PX Hydraulic Fluid (55 Gal)	133-8087
PX Hydraulic Fluid (5 Gal)	133-8086
White Universal Sunshade	30669
Red Universal Sunshade	30671
Operator Cooling Fan	03247
Switch Panel-Universal Sunshade	03248
Beacon Kit	138-2699
Work Lights Kit, Groundsmaster and Reelmaster Traction Units with Universal Sunshade	140-1554
Power Harness Kit	138-2993
Wireless Hourmeter	115-4754
Bimini Sunshade for 2-Post Roll-Over Protection System	30358
Premium Seat Kit	30629
Hi-Back Seat Cover	133-1308
Wheel Weight Kit	136-3315
LED Work Light Kit	31692
3WD Kit, RM3105/GM3505	03229
Dark Metallic Gray Aerosol Paint	361-12
Air Dry Red Paint - Qt	5340
1000 Hour MVP Kit	44963
Hydraulic Booster-10.5 fl oz	145-5286
External Antenna Kit, Wireless Hourmeter System	115-9524
Base Station Kit, Wireless Hourmeter System	115-9542
Repeater Kit, Wireless Hourmeter System	115-9543



Count on it.