Form No. 3383-225 Rev A

TORO®

Count on it.

Parts Catalog

Groundsmaster® 360

2-Wheel Drive Multi-Purpose Machine

Model No. 31229—Serial No. 314000001 and Up

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

3383-225 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.

List of Abbreviations

AR: as required

ASM: assembly

BBC: blade brake control

BHTF: button head thread forming

CARR: carriage

CCW: counter clockwise

CW: clockwise

DEG: degrees

DPA: Dual Point Adjustment

ECM: electronic control module

EXT: external

FH: flat head

GA: gauge

HD: heavy-duty

HF: hex flange

HH: hex head

HHF: hex head flange

HHFTF: hex head flange thread forming

HJ: hex jam

HLH: hex lag head

HOC: height-of-cut

HSBH: hex socket button head

HSFH: hex socket flat head

HSH: hex socket head

HWH: hex washer head

HWHTF: hex washer head thread forming

HYD: hydraulic

LH: left hand

LP: Liquefied Petroleum Gas

LPG: Liquefied Petroleum Gas

NI: nylon insert

NPTF: national pipe thread fine

PFH: phillips flat head

PPH: phillips pan head

PPHTF: phillips pan head thread forming

PRH: phillips round head

PTH: phillips truss head

PTO: power-take-off

RH: right hand

ROPS: roll-over protection system

RRB: rear roller brush

SFH: slotted fillister head

SHH: slotted hex head

SHWH: slotted hex washer head

SPH: slotted pan head

SQH: square head

SRH: slotted round head

STD: standard

TAP: self tapping

TTH: torx truss head

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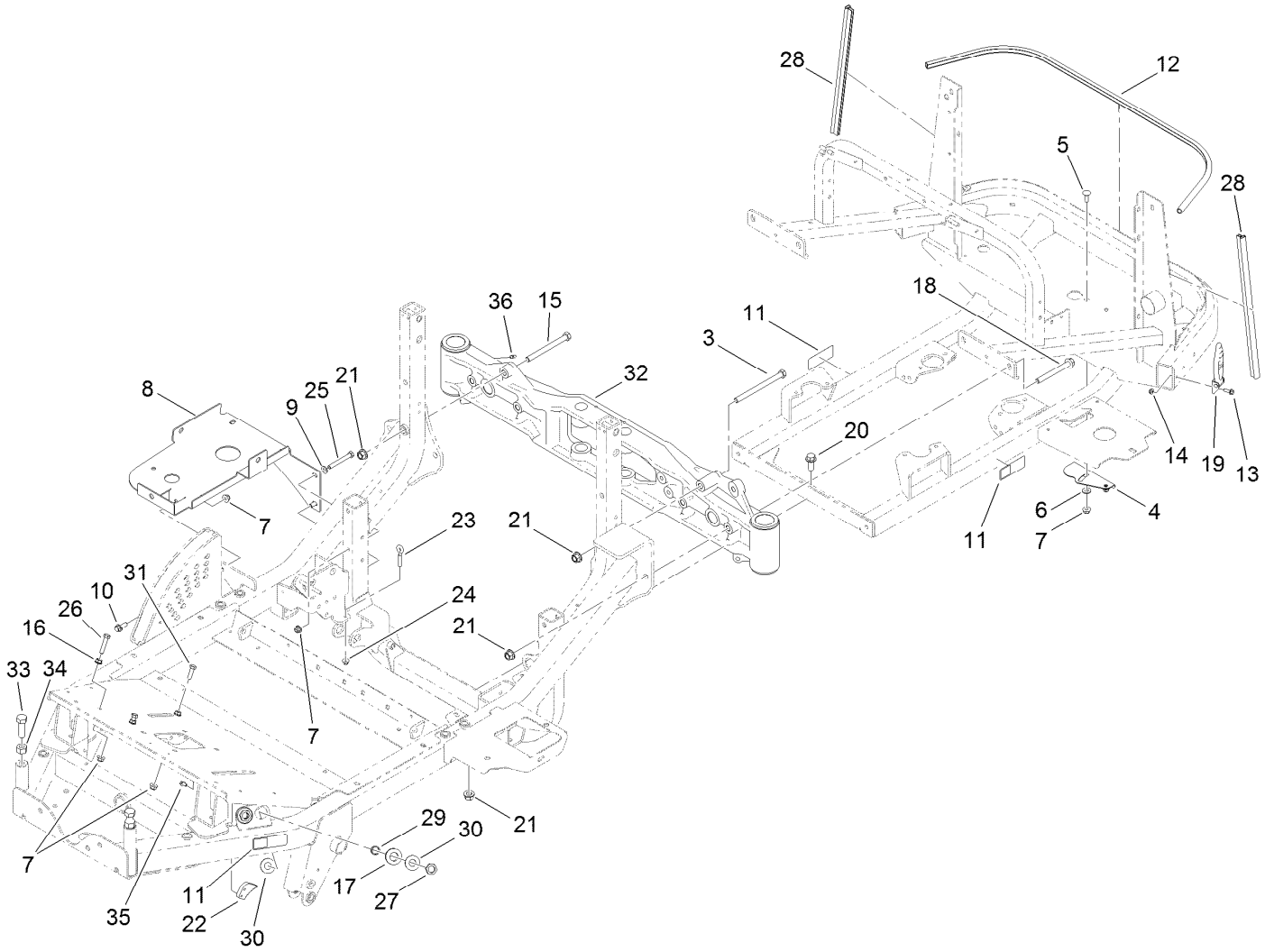
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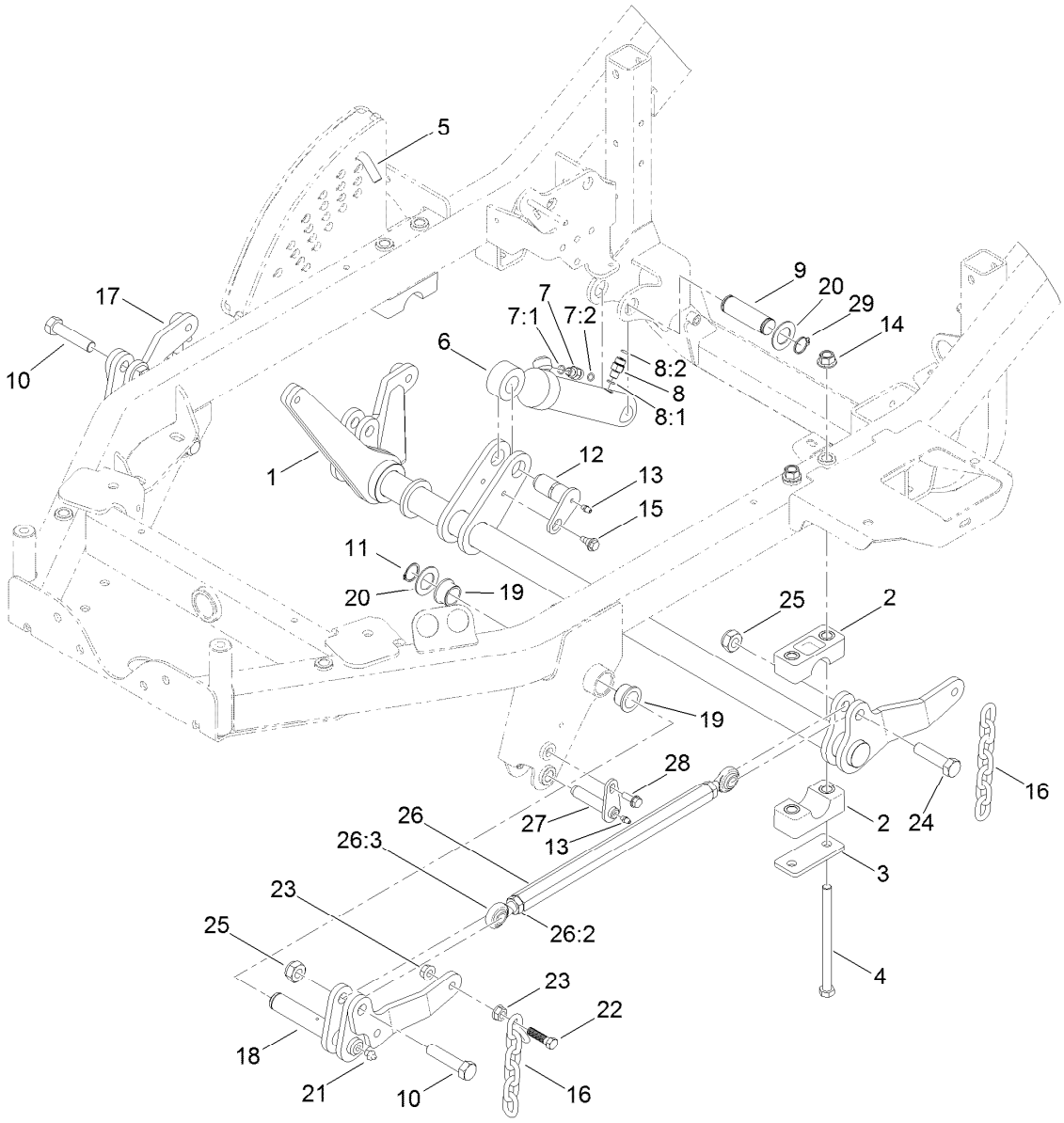
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Frame and Axle Assembly

Ref.	Part Number	Qty.	Description
3	325-33	1	Screw-HH
4	117-3190	1	Cover-Lower
5	3231-22	2	Screw-CARR
6	66-2920	2	Washer-Friction
7	104-8301	8	Nut-Flange, NI
8	117-3385-03	1	Bracket-Tank, HYD
9	3256-24	2	Washer-Flat
10	3234-24	1	Screw-HHF
11	106-9206	4	Decal-Torque, Wheel
12	117-3311	1	Seal-Bulb
13	3234-4	2	Screw-HHF
14	104-7201	2	Nut-HF
15	325-22	1	Screw-HH
16	3290-357	3	Nut-HHF, Whiz
17	240-4	2	Grommet-Rubber
18	117-3176	4	Screw-HHF
19	103-2898	2	Latch-Rubber

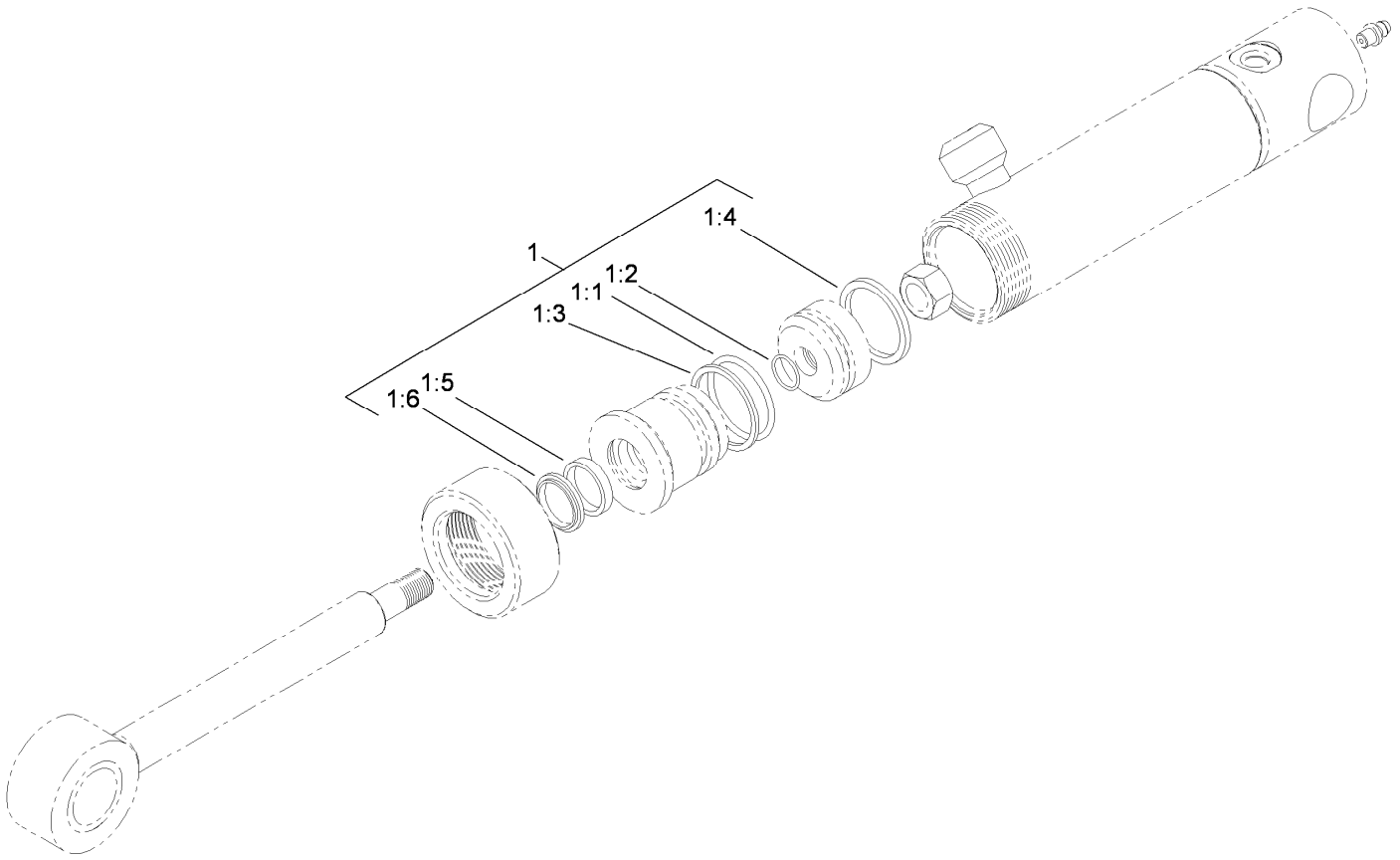
Ref.	Part Number	Qty.	Description
20	3234-38	3	Screw-HHF
21	99-5107	9	Nut-Lock
22	99-7214	1	Pawl-Brake
23	1-303238	1	Eyebolt-Thread, RH
24	104-8300	1	Nut-Flange, NI
25	323-14	2	Screw-HH
26	323-53	2	Screw-HH
27	340-70	2	Nut-Lock
28	107-2269	2	Seal-Bulb
29	69-8970	2	Spacer
30	69-8940	4	Washer
31	323-7	1	Screw-HH
32	119-1448	1	Rear Axle ASM
33	327-6	2	Screw-HH
34	3217-11	2	Nut-Hex
35	3234-13	2	Screw-HHF
36	302-5	2	Fitting-Grease



Lift Shaft and Linkage Assembly

Ref.	Part Number	Qty.	Description
1	115-0190-03	1	Shaft-Lift
2	115-0491	4	Cap-Bearing
3	117-2903	2	Plate-Bearing
4	325-37	4	Screw-HH
5	112-9544	1	Pin-HOC
6	110-9834	1	HYD Cylinder ASM
7	340-92	1	Fitting-HYD, Straight
7:1	237-78	1	O-Ring
7:2	237-21	1	O-Ring
8	95-1639	1	Fitting-HYD
8:1	237-78	1	O-Ring
8:2	237-21	1	O-Ring
9	115-0183	1	Shaft-Cylinder, Lift
10	327-8	2	Screw-HH
11	32151-29	2	Ring-Retaining
12	125-1910	1	Pin-Pivot
13	302-5	3	Fitting-Grease
14	99-5107	4	Nut-Lock

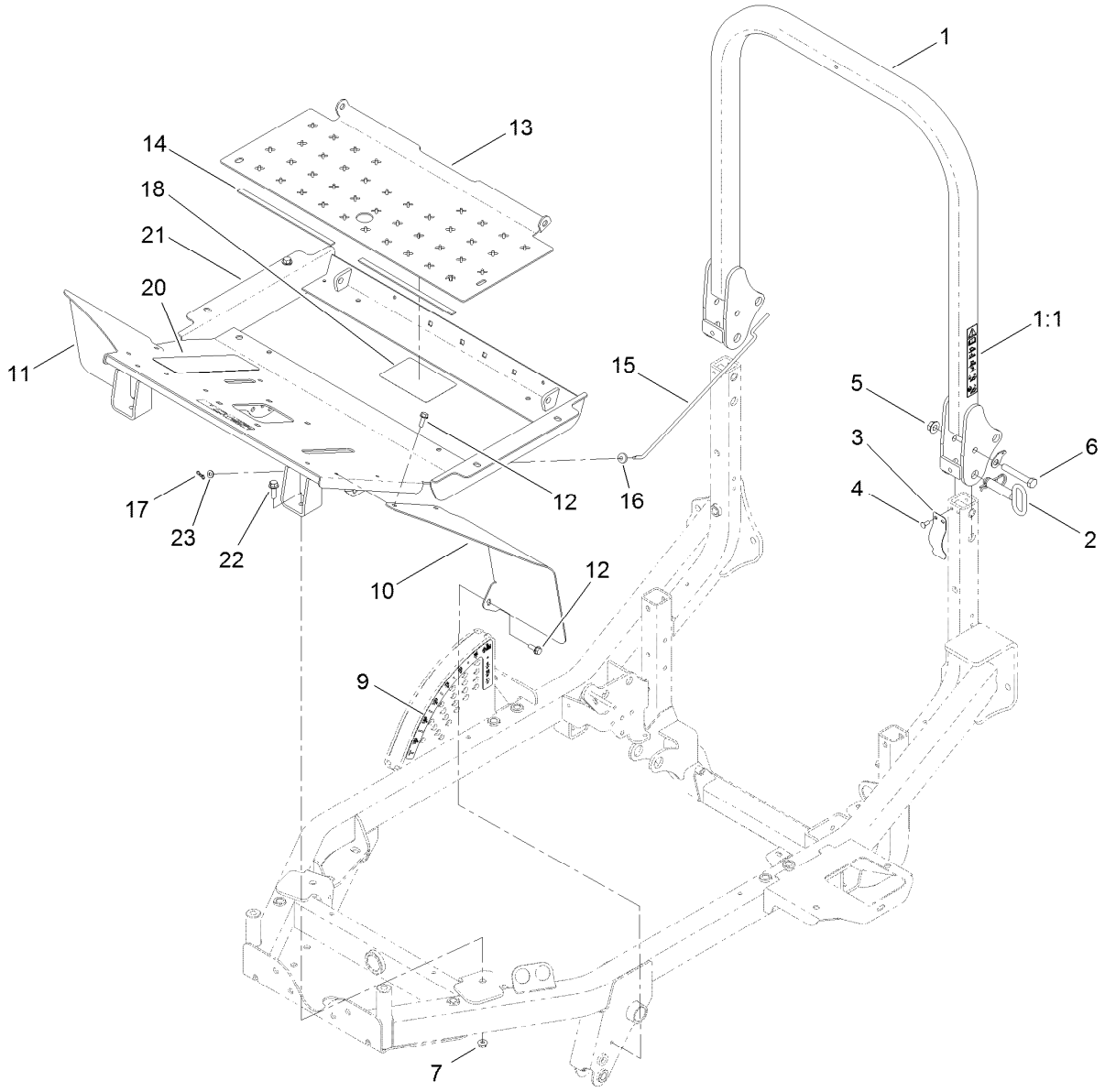
Ref.	Part Number	Qty.	Description
15	99-5105	1	Bolt-Shoulder
16	119-1385	4	Chain-HOC
17	119-1380-03	1	Lift-RH
18	119-1383-03	1	Lift-LH
19	114-5680	4	Bushing-Flange
20	69-9010	4	Washer
21	302-2	2	Fitting-Grease
22	103-1898	4	Screw-HH
23	32128-37	8	Nut-HF
24	327-7	2	Screw-HH
25	3296-61	4	Nut-Lock
26	114-4059	2	Link ASM
26:2	3220-6	2	Nut-Jam
26:3	1-633029	2	Balljoint-Spherical
27	112-1602	2	Pin-Retainer
28	32144-41	2	Screw-Taptite
29	32151-36	2	Ring-Retaining



Hydraulic Cylinder Assembly No. 110-9834

Ref.	*Part Number*	*Qty.*	*Description*
1	112-6353	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	O-Ring ●
1:3		1	Backup ●
1:4		1	Seal-Bp ●
1:5		1	Seal-Rod ●
1:6		1	Seal-Dust ●

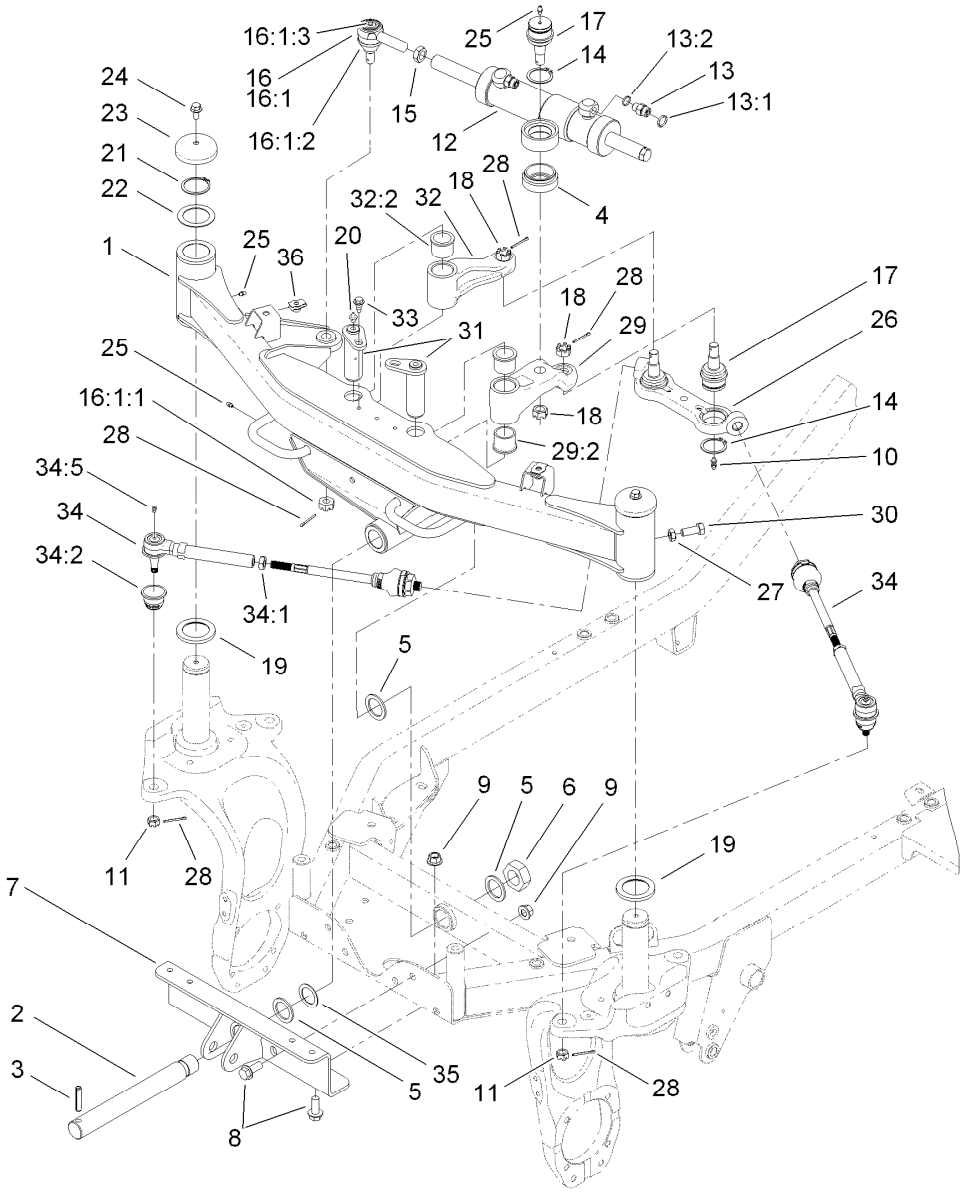
● Not serviced separately



Platform and Roll-Over Protection System Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	120-0253	1	ROPS ASM
1:1	117-3272	1	Decal-Danger, ROPS
2	103-4553	2	Pin-Fold, ROPS
3	110-5696	2	Spring-Leaf
4	3290-412	4	Rivet
5	32128-23	2	Nut-HF
6	112-7264	2	Screw-HH
7	104-8301	2	Nut-Flange, NI
9	115-0492	1	Decal-HOC
10	117-3203-03	1	Fender-Front, LH
11	117-3202-03	1	Fender-Front, RH

Ref.	*Part Number*	*Qty.*	*Description*
12	32144-41	6	Screw-Taptite
13	117-3204-03	1	Plate-Floor
14	115-8827	2	Foam-Strip
15	110-9847	1	Rod-Prop
16	237-141	1	Grommet-Rubber
17	119-1414	1	Pin-Cotter, Locking
18	112-1461	1	Decal-Routing, Belt
20	71-0440	1	Abrasive-Pedal
21	119-1398-01	1	Platform
22	3234-24	4	Screw-HHF
23	3256-22	1	Washer-Flat

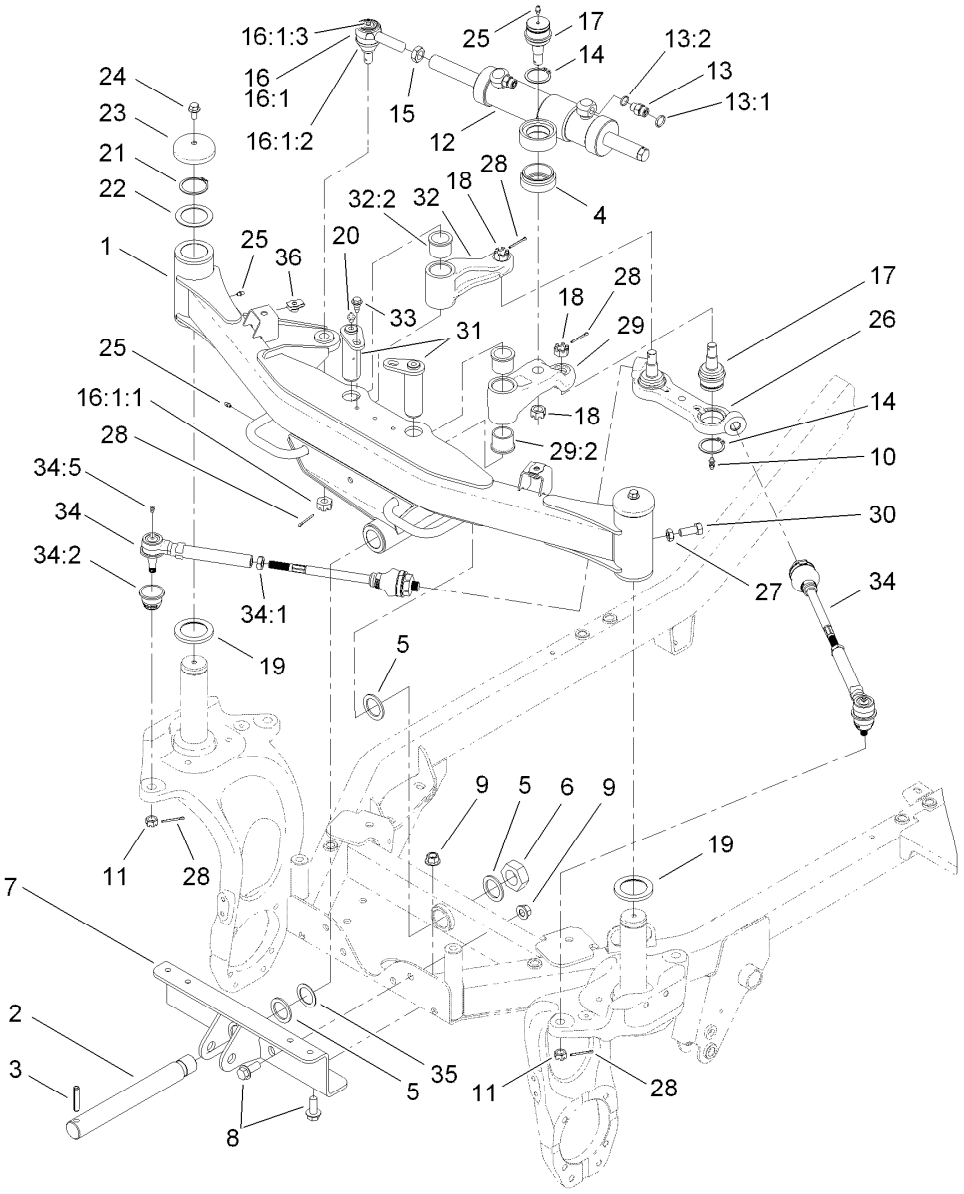


Front Axle and Tie Rod Assembly

Ref.	Part Number	Qty.	Description
1	119-1447	1	Front Axle ASM
2	119-1376	1	Shaft-Pivot
3	32121-110	1	Pin-Roll, Slotted
4	120-0238	1	Spacer-Cylinder
5	98-1452	3	Washer-Thrust
6	3296-68	1	Nut-Lock, NI
7	117-2920-03	1	Support-Axle
8	3234-38	6	Screw-HHF
9	99-5107	6	Nut-Lock
10	302-60	2	Fitting-Grease
11	32136-3	2	Nut-SHH
12	115-0060	1	HYD Cylinder ASM
13	340-2	2	Fitting-HYD, Straight
13:1	237-22	1	O-Ring
13:2	237-42	1	O-Ring
14	32151-104	3	Ring-Retaining, External
15	84-5300	1	Nut-Jam
16	71-4740-03	1	RH Tie Rod End ASM

Ref.	Part Number	Qty.	Description
16:1		1	End-Rod, Tie (RH) ●
16:1:1	105-7941	1	Nut-Hex, Slotted
16:1:2	105-7835	1	Seal
16:1:3	302-5	1	Fitting-Grease
17	106-6774	3	Joint-Ball
18	32136-2	3	Nut-SHH
19	100-2508	2	Washer-Thrust
20	302-2	2	Fitting-Grease
21	100-4196	2	Ring-Retaining
22	115-0169	2	Washer-Thrust
23	100-3362	2	Cap-Spindle
24	3234-12	2	Screw-HHF
25	302-5	4	Fitting-Grease
26	117-2986	1	Centerlink
27	3218-5	2	Nut-Jam
28	3272-12	6	Pin-Cotter
29	120-0391	1	Front LH Arm ASM
29:2	94-8947	2	Bushing-Flange

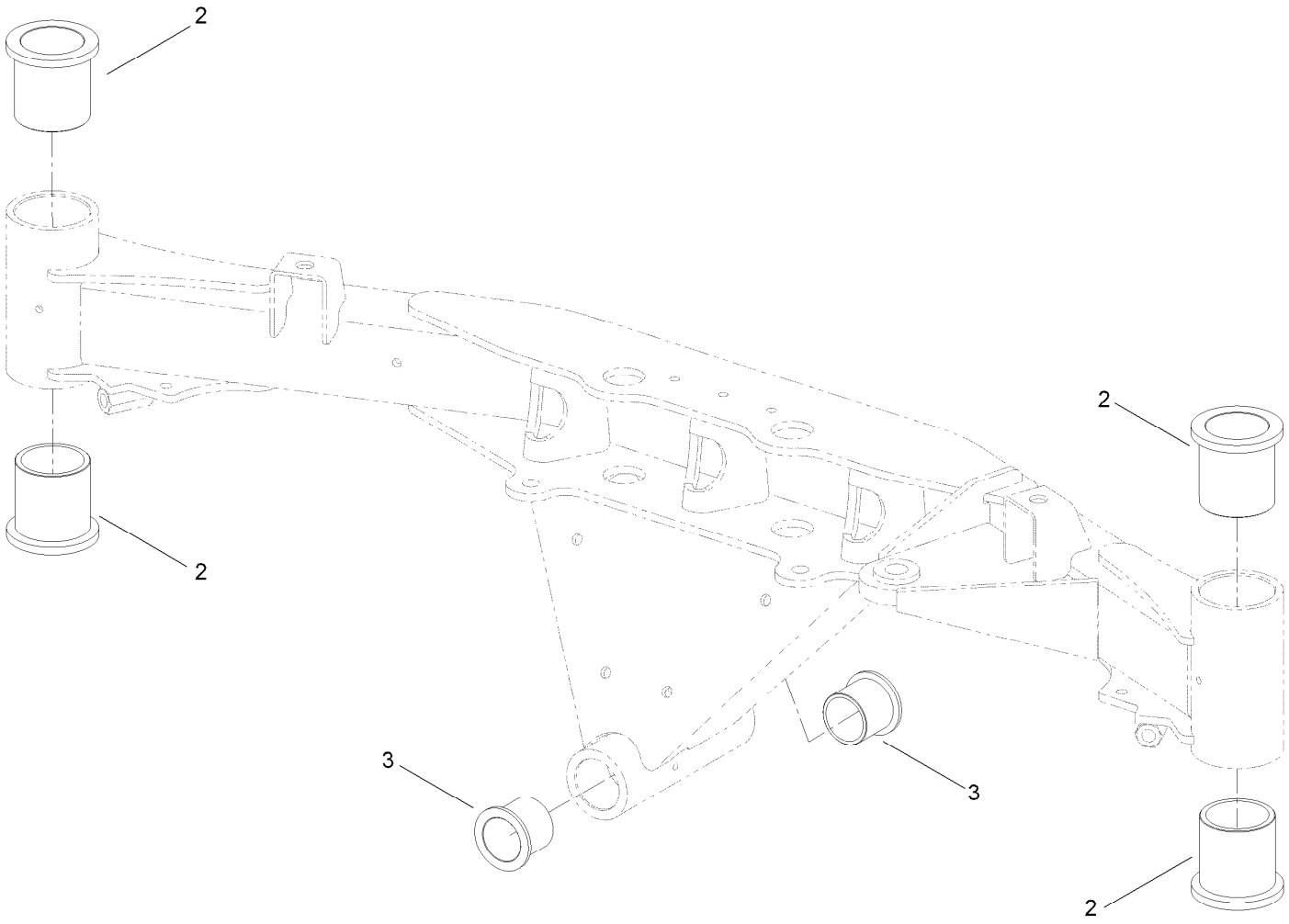
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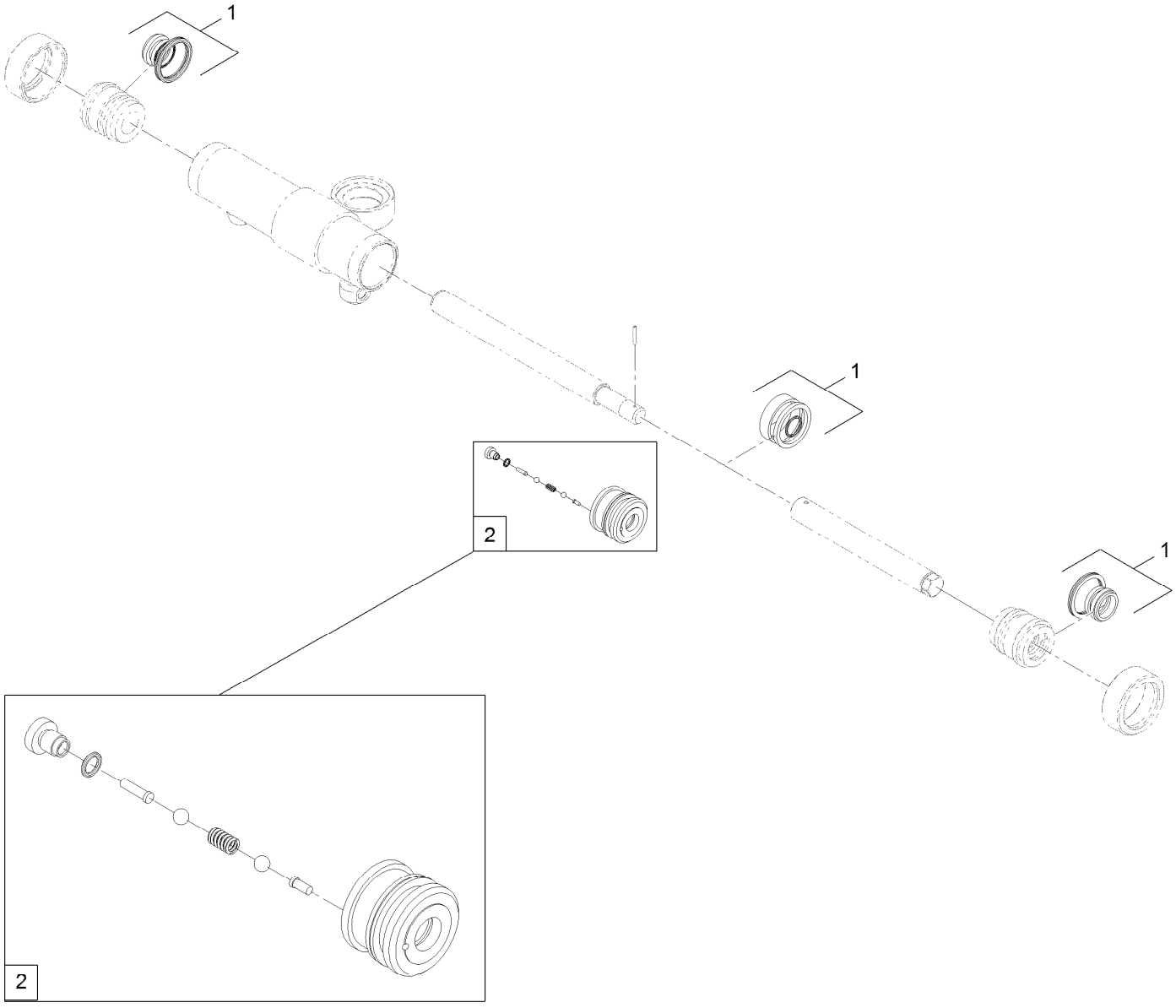
Ref.	Part Number	Qty.	Description
30	325-6	2	Screw-HH
31	117-3167	2	Front Pin ASM
32	120-0390	1	Front RH Arm ASM
32:2	94-8947	2	Bushing-Flange
33	99-5105	2	Bolt-Shoulder
34	117-2983	2	Rod-Tie, Front
34:1	42-9650	1	Nut-Hex, Jam
34:2	117-3287	1	Dust Boot
34:5	302-5	1	Fitting-Grease
35	93-4628	1	Washer
36	105-4886	2	Nut-Tinnerman

● Not serviced separately



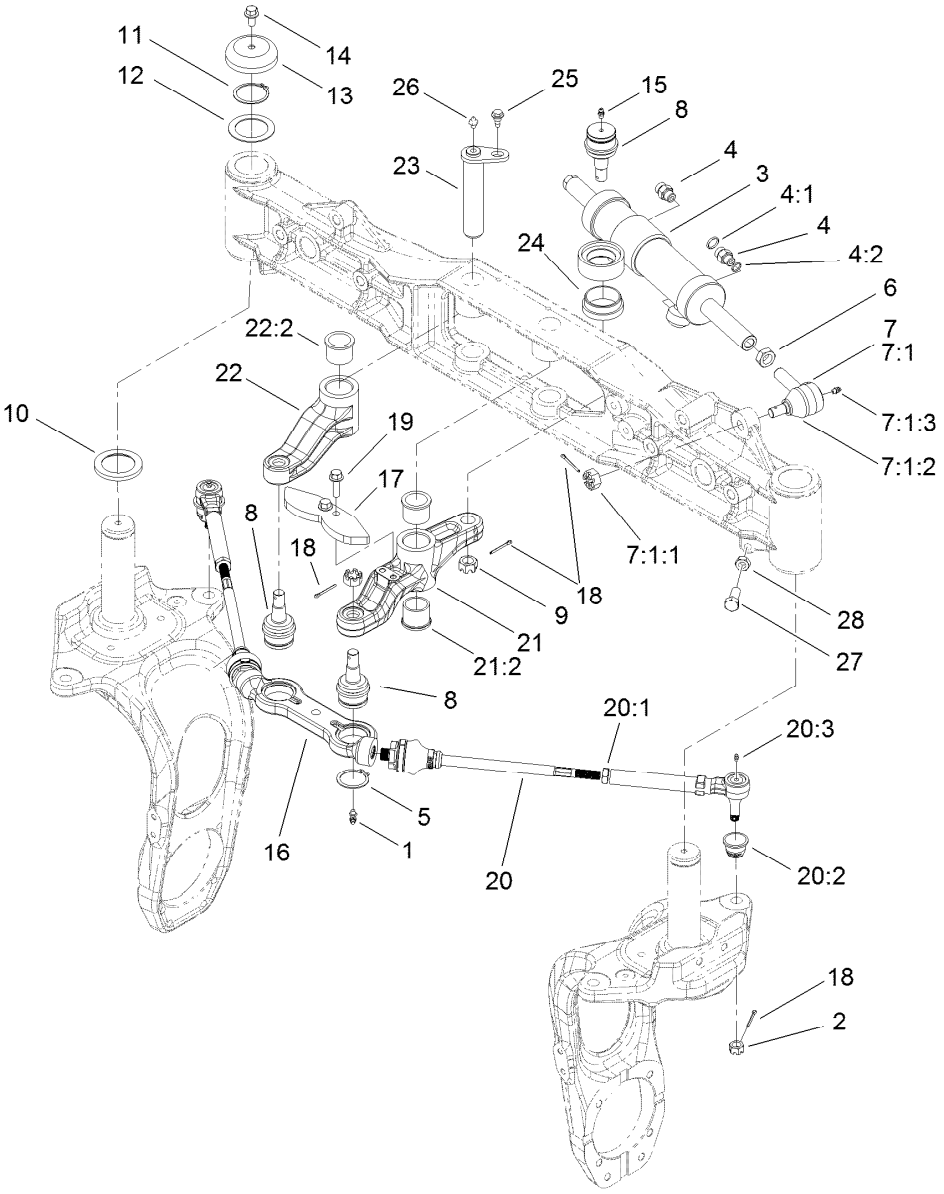
Front Axle Assembly No. 119-1447

Ref.	*Part Number*	*Qty.*	*Description*
2	100-2506	4	Bushing-Castor
3	69-6470	2	Bushing-Castor



Hydraulic Cylinder Assembly No. 115-0060

Ref.	*Part Number*	*Qty.*	*Description*
1	120-2557	1	Seal Kit
2	120-2556	1	Valve-Check, Rephasing

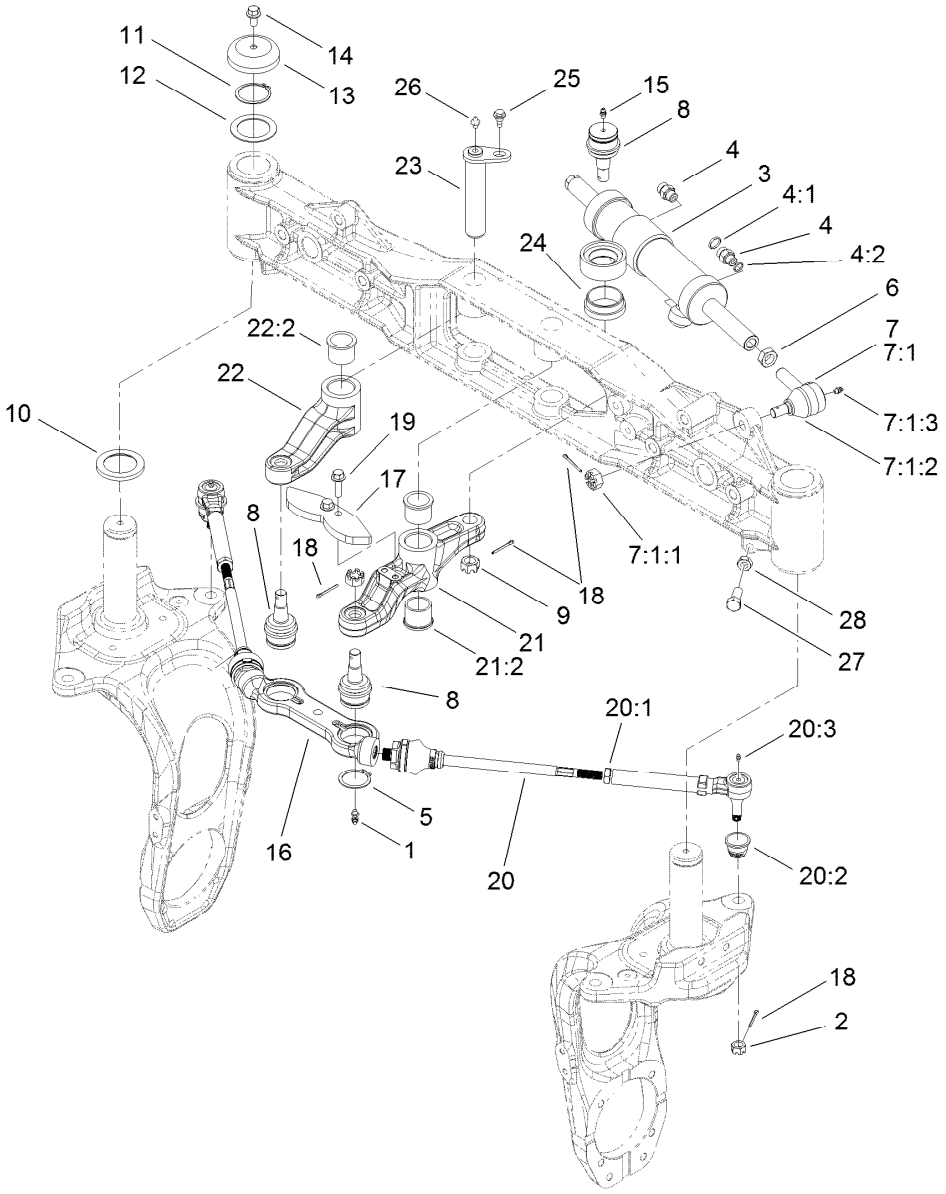


Rear Steering Assembly

Ref.	Part Number	Qty.	Description
1	302-60	2	Fitting-Grease
2	32136-3	2	Nut-SHH
3	115-0060	1	HYD Cylinder ASM
4	340-2	2	Fitting-HYD, Straight
4:1	237-22	1	O-Ring
4:2	237-42	1	O-Ring
5	32151-104	3	Ring-Retaining, External
6	84-5300	1	Nut-Jam
7	71-4740-03	1	RH Tie Rod End ASM
7:1		1	End-Rod, Tie (RH) ●
7:1:1	105-7941	1	Nut-Hex, Slotted
7:1:2	105-7835	1	Seal
7:1:3	302-5	1	Fitting-Grease
8	106-6774	3	Joint-Ball
9	32136-2	3	Nut-SHH
10	100-2508	2	Washer-Thrust
11	100-4196	2	Ring-Retaining
12	115-0169	2	Washer-Thrust

Ref.	Part Number	Qty.	Description
13	100-3362	2	Cap-Spindle
14	3234-12	2	Screw-HHF
15	302-5	1	Fitting-Grease
16	117-2986	1	Centerlink
17	117-3376-03	1	Plate-Cam, Pittman
18	3272-12	6	Pin-Cotter
19	3234-24	2	Screw-HHF
20	117-2984	2	Rod-Tie, Rear
20:1	42-9650	1	Nut-Hex, Jam
20:2	117-3287	1	Dust Boot
20:3	302-5	1	Fitting-Grease
21	120-0393	1	Rear LH Arm ASM
21:2	94-8947	2	Bushing-Flange
22	120-0392	1	Rear RH Arm ASM
22:2	94-8947	2	Bushing-Flange
23	117-3137	2	Pin ASM
24	120-0238	1	Spacer-Cylinder
25	99-5105	2	Bolt-Shoulder

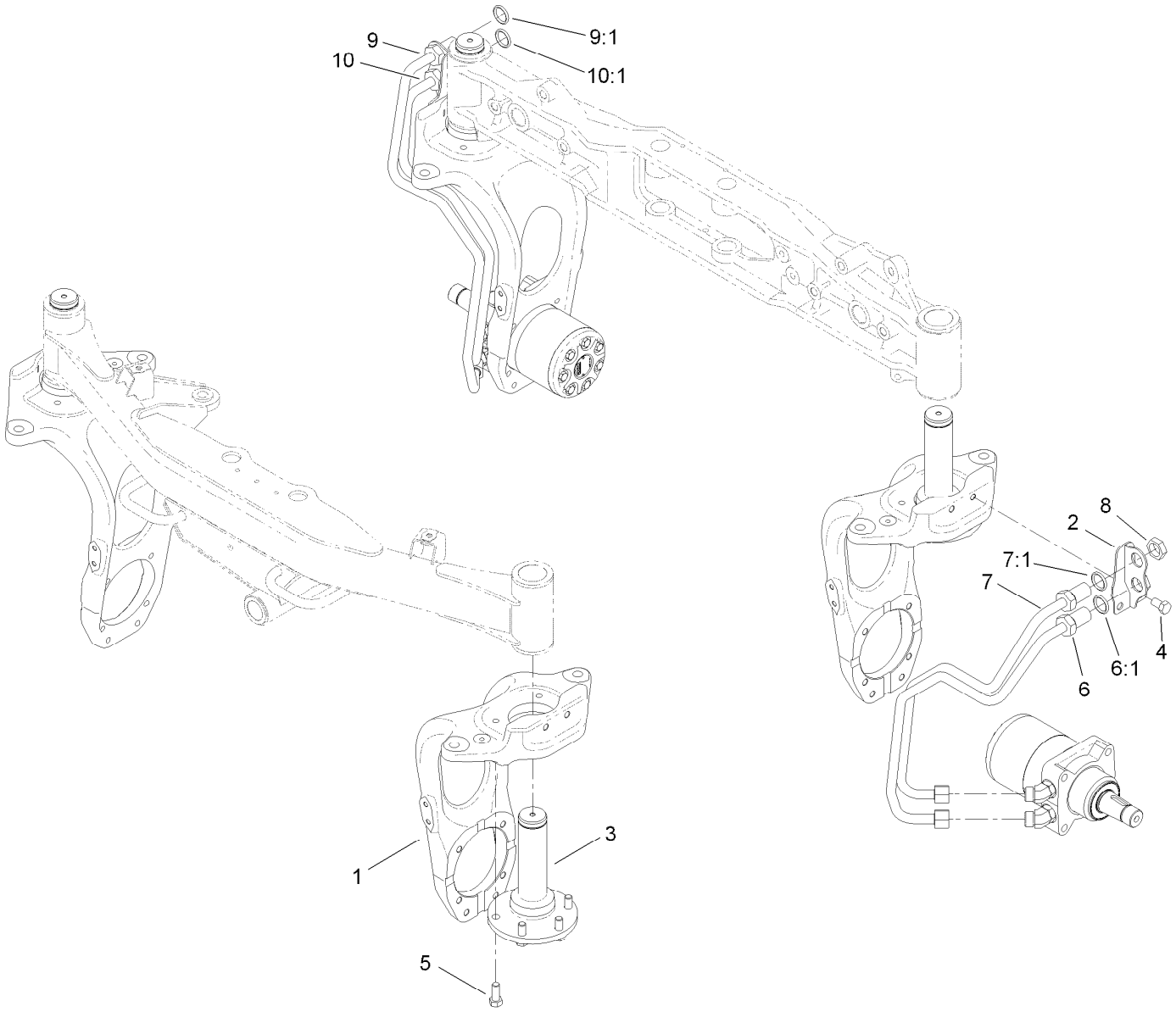
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Rear Steering Assembly (continued)

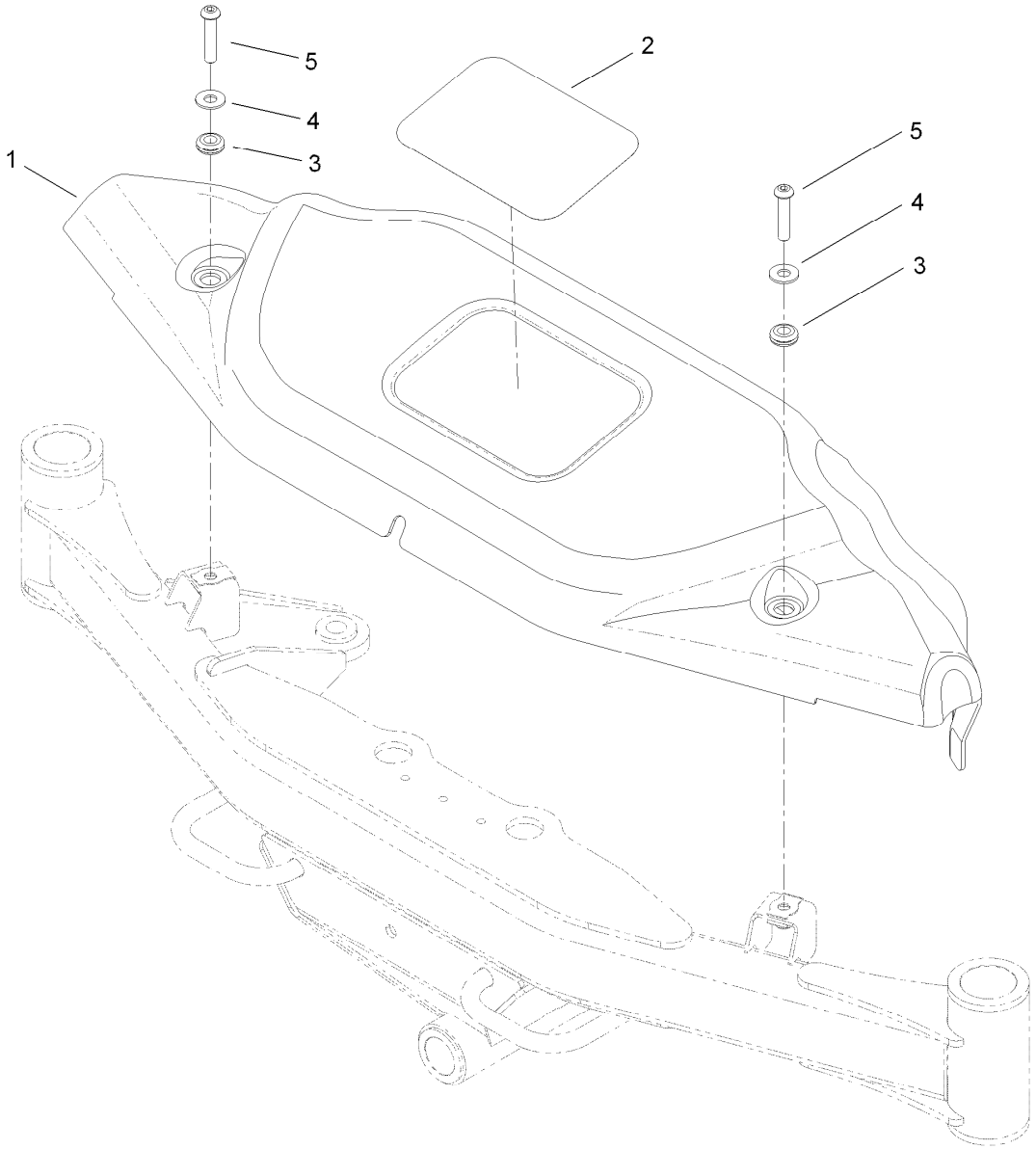
Ref.	Part Number	Qty.	Description
26	302-2	2	Fitting-Grease
27	325-6	2	Screw-HH
28	3218-5	2	Nut-Jam

● Not serviced separately



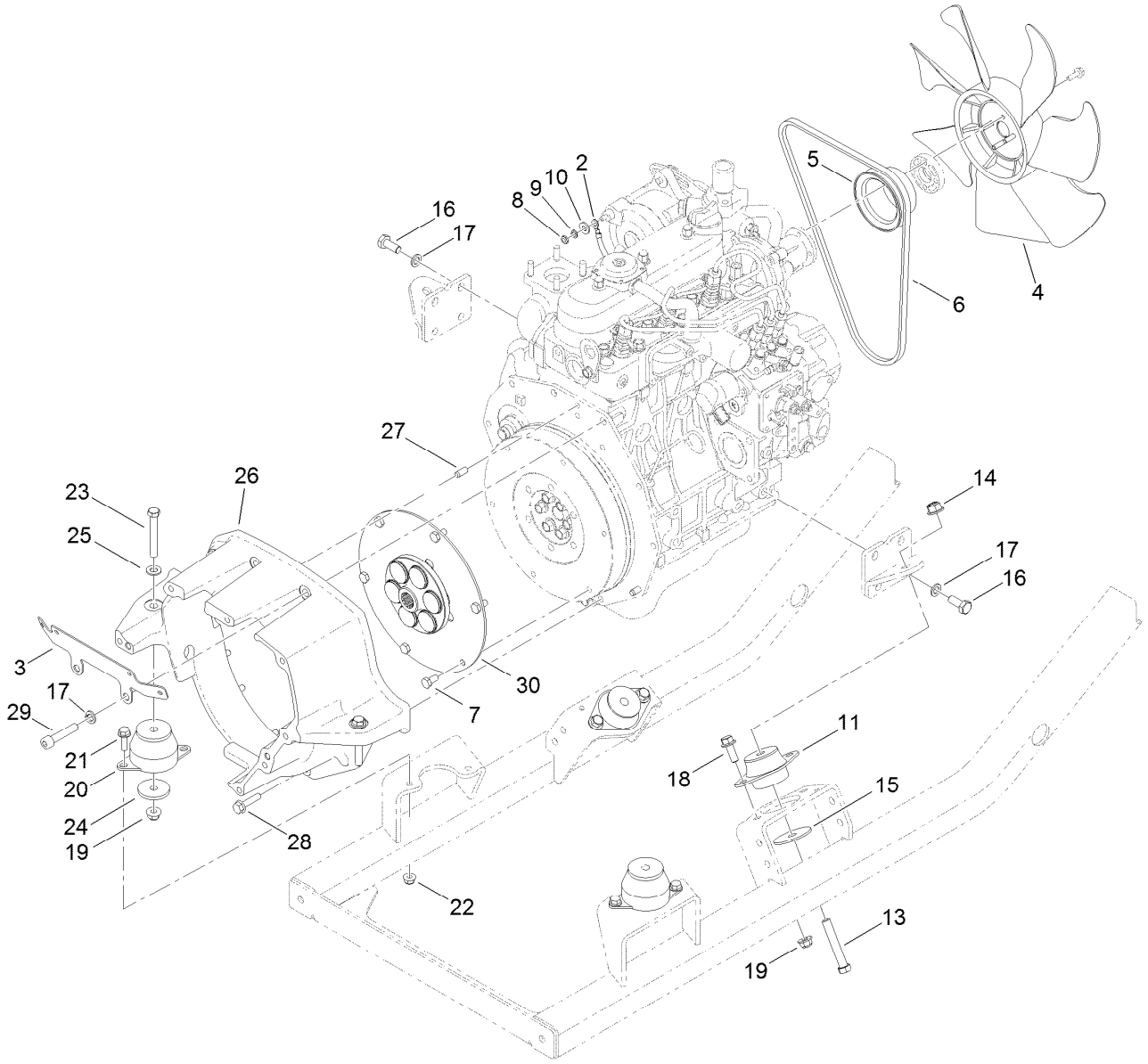
2 Wheel Drive Steering Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	117-2951	4	Base-Fork, Steer
2	119-1410-03	2	Bracket-Bulkhead
3	117-3361	4	Spindle-Steer
4	325-3	4	Screw-HH
5	117-3266	20	Screw-HH
6	117-2948	1	Upper Tube ASM (Lrrf)
6:1	237-65	1	O-Ring
7	117-2949	1	Lower Tube ASM (Lrrf)
7:1	237-65	1	O-Ring
8	340-74	4	Nut-Lock, Bulkhead
9	117-2946	1	Upper Tube ASM (Rrlf)
9:1	237-65	1	O-Ring
10	117-2947	1	Lower Tube ASM (Rrlf)
10:1	237-65	1	O-Ring



Front Cover Assembly

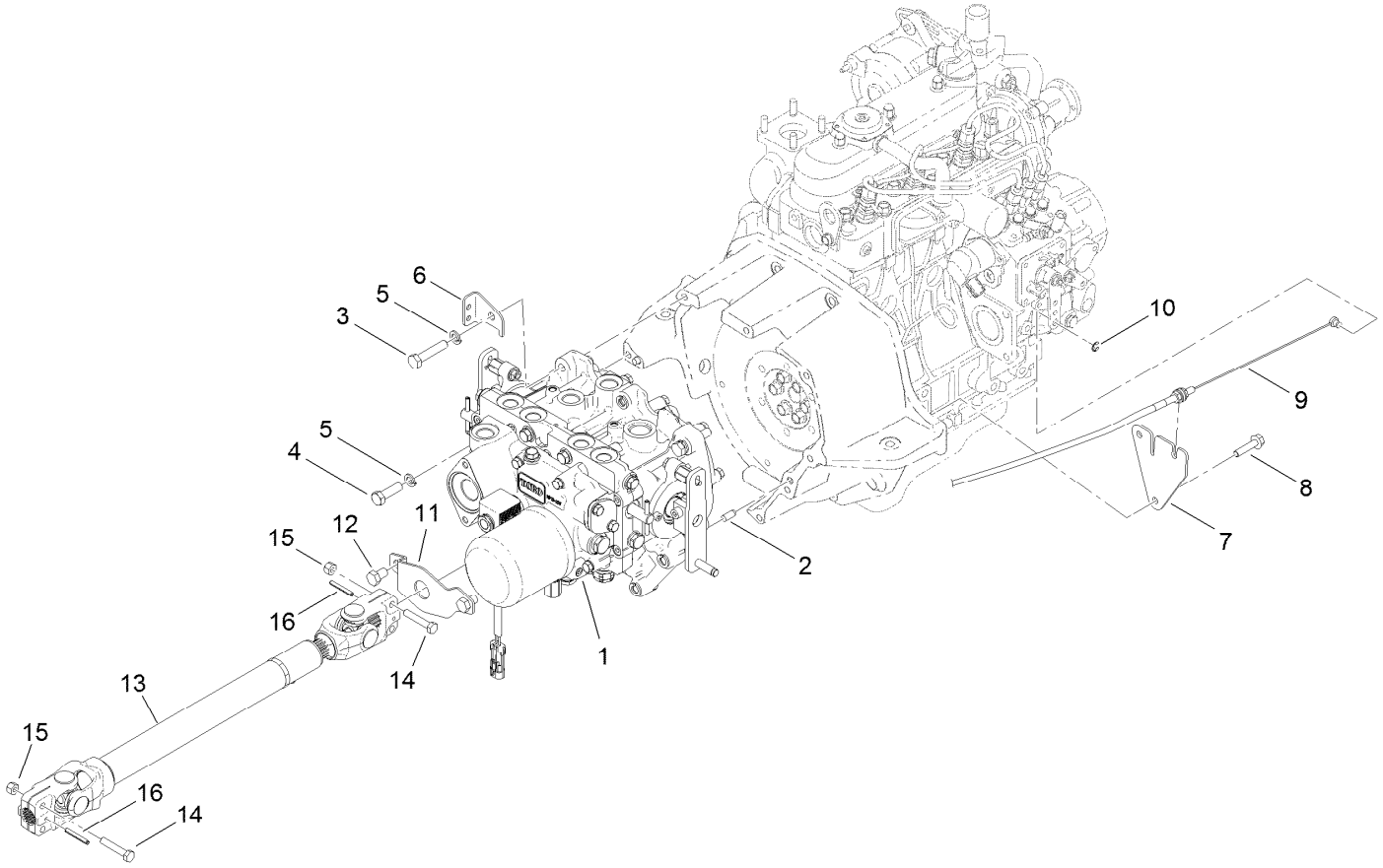
Ref.	*Part Number*	*Qty.*	*Description*
1	119-9895	1	Cover-Front
2	104-7213	1	Decal
3	1-633630	2	Grommet
4	100-7403	2	Washer-Flat
5	95-3857	2	Screw-HSBH



Engine Component Assembly

Ref.	Part Number	Qty.	Description
2	100-5552	1	Harness-Wire
3	117-3173-03	1	Support-Cable
4	107-9096	1	Fan-Cooling
5	99-3453	1	Pulley-Fan
6	115-0123	1	V-Belt
7	99-5132	6	Bolt
8	33013-00	1	Nut-Hex
9	43-5930	1	Washer-Lock, Spring
10	3256-2	1	Washer-Flat
11	53-9681	2	Mount-Engine
13	324-11	2	Screw-HH
14	114-8417	2	Nut-HF, NI
15	87-5100	2	Washer-Snubbing
16	43-0090	8	Screw-HH

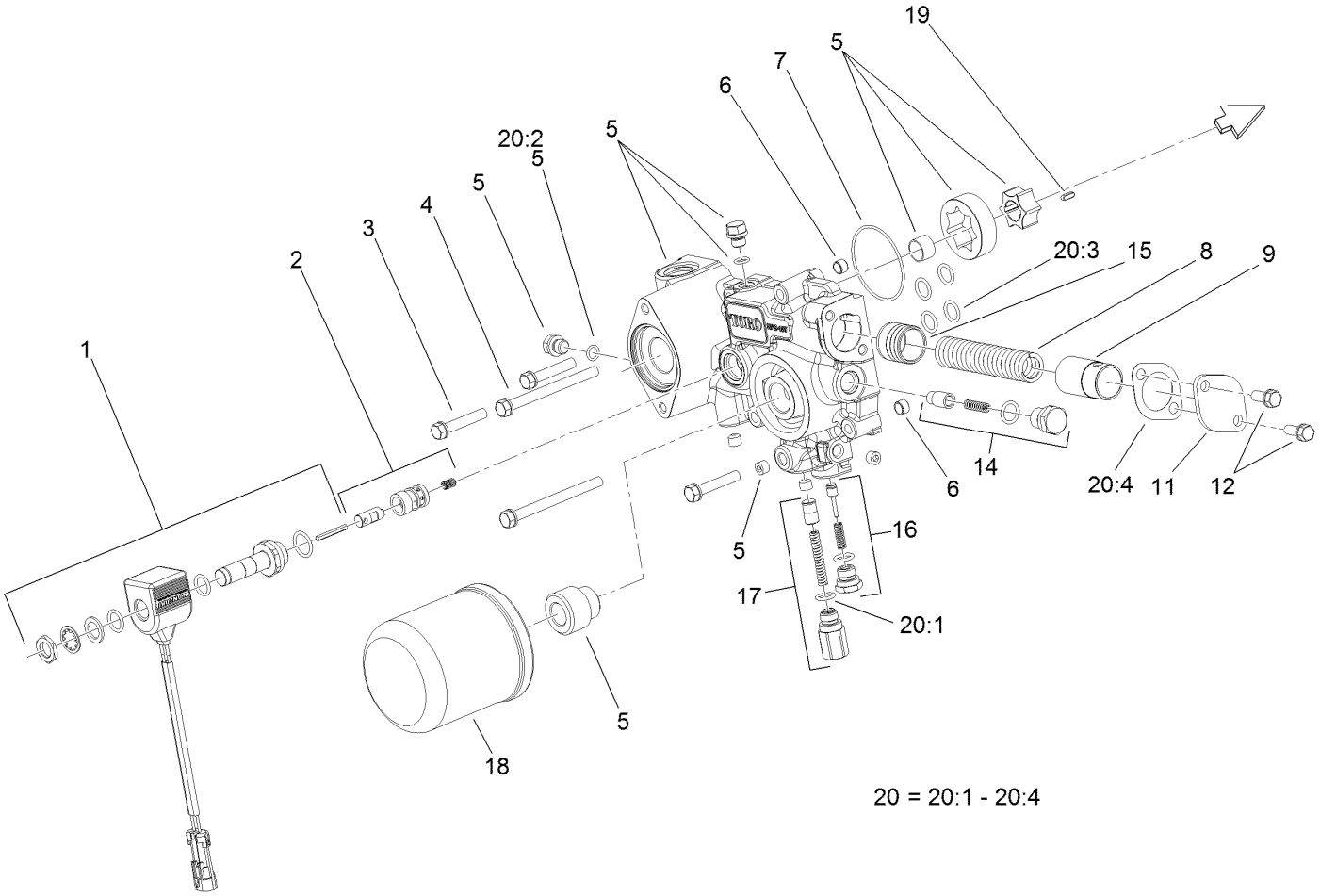
Ref.	Part Number	Qty.	Description
17	48-9590	10	Washer-Lock
18	3234-42	4	Screw-HHF
19	104-8301	6	Nut-Flange, NI
20	107-2289	2	Mount-Motor
21	3234-17	4	Screw-HHF
22	104-8300	4	Nut-Flange, NI
23	323-13	2	Screw-HH
24	80-8560	2	Washer-Hardened
25	3256-24	2	Washer-Flat
26	108-5193	1	Housing-Flywheel
27	87-1910	2	Pin-Dowel
28	33104-035	6	Screw-HHF
29	3274-106	2	Screw-HSH
30	110-9729	1	Coupling-Flywheel



Transmission Component Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	120-9140	1	Transmisson ASM
2	87-1910	2	Pin-Dowel
3	33115-050	6	Screw-HH
4	33115-035	1	Screw-HH
5	48-9590	7	Washer-Lock
6	120-0239	1	Support-Tube
7	114-4060	1	Bracket-Throttle
8	33104-035	2	Screw-HHF

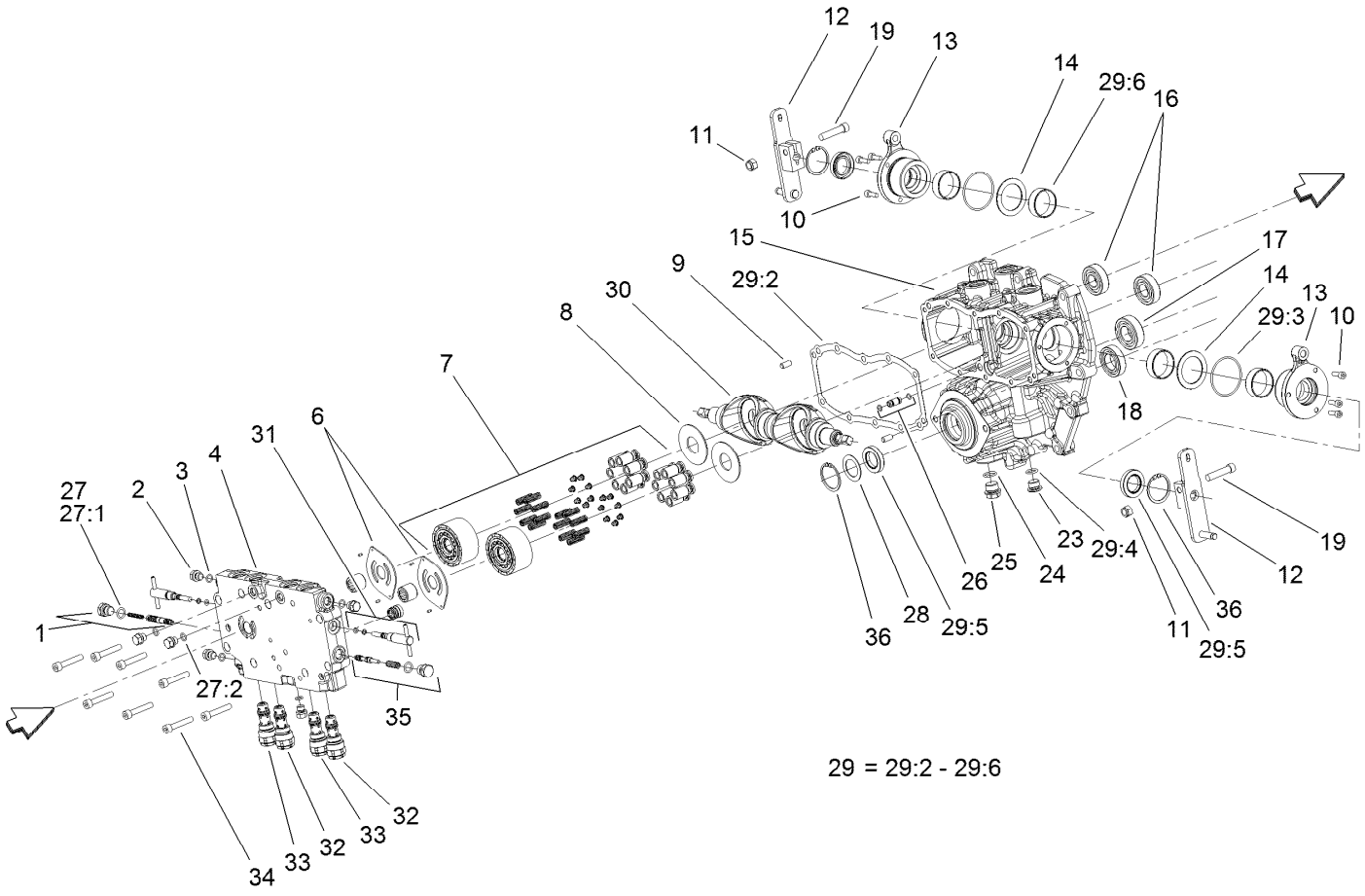
Ref.	*Part Number*	*Qty.*	*Description*
9	120-6714	1	Cable-Throttle/Choke
10	701197	1	E-Ring
11	114-4088	1	Shield-Seal
12	33115-016	2	Screw-HH
13	110-3575	1	Driveshaft ASM
14	322-9	4	Screw-HH
15	3296-29	4	Nut-Lock, NI
16	32121-34	2	Pin-Roll



Charge Pump Housing Assembly
Transmission Assembly No. 120-9140

Ref.	*Part Number*	*Qty.*	*Description*
1	107-0851	1	Solenoid ASM
2	107-0850	1	Solenoid Valve ASM
3	107-0863	3	Bolt
4	107-0864	2	Bolt
5	107-0840	1	Pump Body ASM
6	107-0848	2	Pin
7	107-0856	1	O-Ring
8	107-0845	1	Spring
9	107-0844	1	Collar
11	107-0846	1	Cover
12	93-0457	2	Bolt And Washer ASM

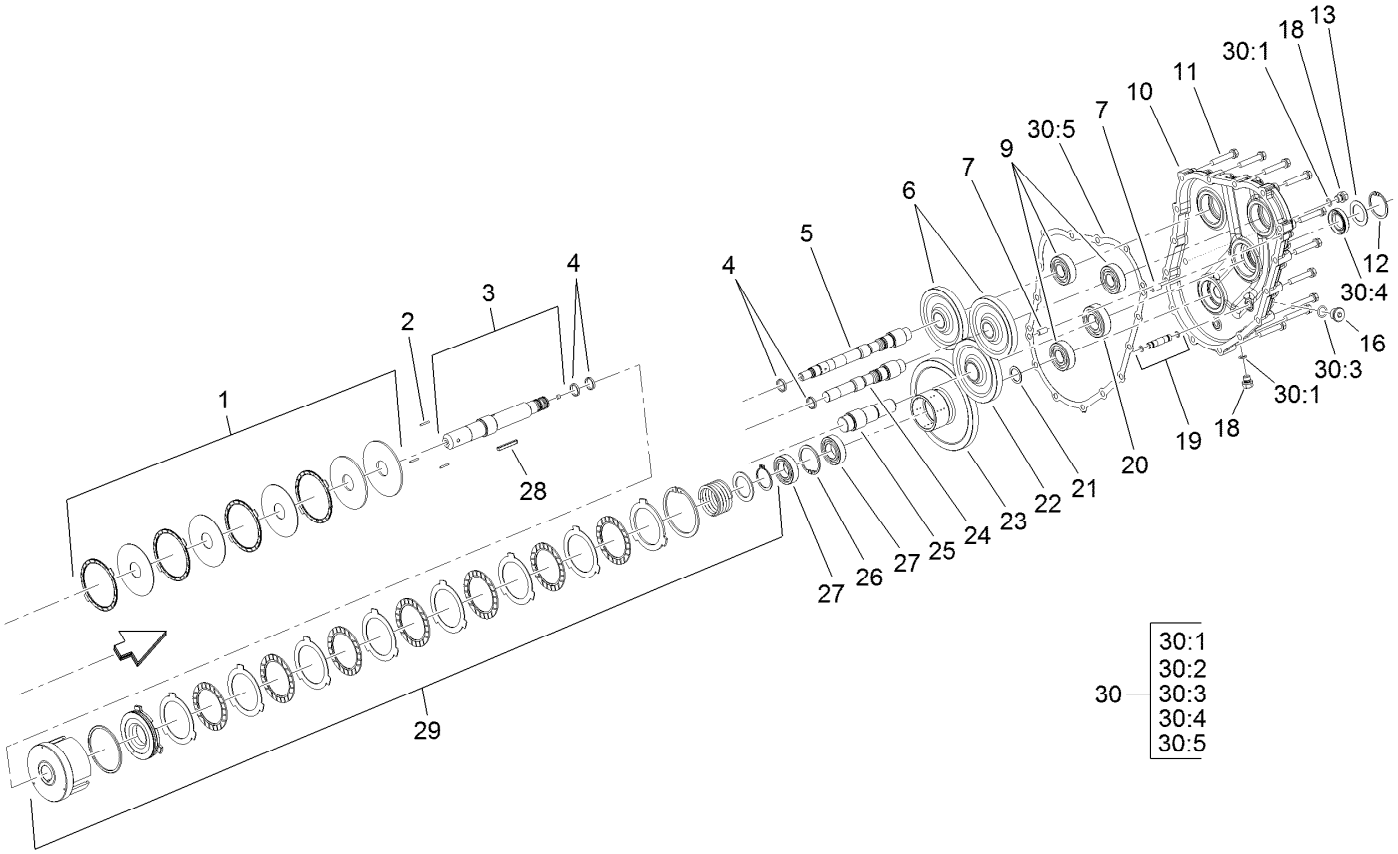
Ref.	*Part Number*	*Qty.*	*Description*
14	107-0843	1	Filter Bypass Valve ASM
15	107-0818	1	Piston
16	120-5153	1	Charge Relief Valve ASM
17	107-0841	1	Pressure Valve ASM
18	108-5194	1	Filter-Oil, HYD
19	107-0865	1	Key
20	107-0855	1	Charge Pump Seal Kit
20:1	93-0418	2	O-Ring
20:2	107-0817	2	O Ring-Plug
20:3	104-3298	6	Packing
20:4	107-0847	1	Gasket



Center Section Assembly
Transmission Assembly No. 120-9140

Ref.	Part Number	Qty.	Description
1	107-0807	1	Valve-Flushing, RH
2	107-0857	6	Plug
3	107-0817	6	O Ring-Plug
4	120-5150	1	Center Case ASM
6	107-0805	2	Plate-Valve
7	107-0824	2	Cylinder Block ASM
8	107-0830	2	Plate-Thrust
9	92-0765	4	Pin-Parallel
10	107-0859	6	Bolt
11	120-6681	2	U-Nut
12	120-6680	2	Arm-Control
13	107-0832	2	Side Cover ASM
14	107-0829	2	Washer
15	120-5151	1	Pump Housing ASM
16	107-0826	2	Bearing
17	107-0821	1	Bearing
18	107-0838	1	Bearing
19	120-6682	2	Bolt (10 X 40)
23	107-0861	1	Plug-NPTF
24	107-0862	1	O-Ring

Ref.	Part Number	Qty.	Description
25	107-0867	1	Plug
26	107-0812	1	Pipe
27	107-0852	1	Center Case Seal Kit
27:1	93-0418	2	O-Ring
27:2	107-0817	6	O Ring-Plug
28	107-0813	1	Spacer
29	107-0853	1	Pump Housing Seal Kit
29:2	107-0810	1	Gasket-Case, Center
29:3	107-0817	2	O Ring-Plug
29:4	104-3298	1	Packing
29:5	107-0814	3	Seal
29:6	107-0825	4	Ring-Seal
30	120-6679	2	Plate-Swash
31	107-0808	2	Valve-Bypass
32	120-6754	2	Valve-Rear
33	107-0803	2	Valve-Front
34	107-0863	8	Bolt
35	107-0806	1	Valve-Flushing, LH
36	92-0757	2	Ring-Snap

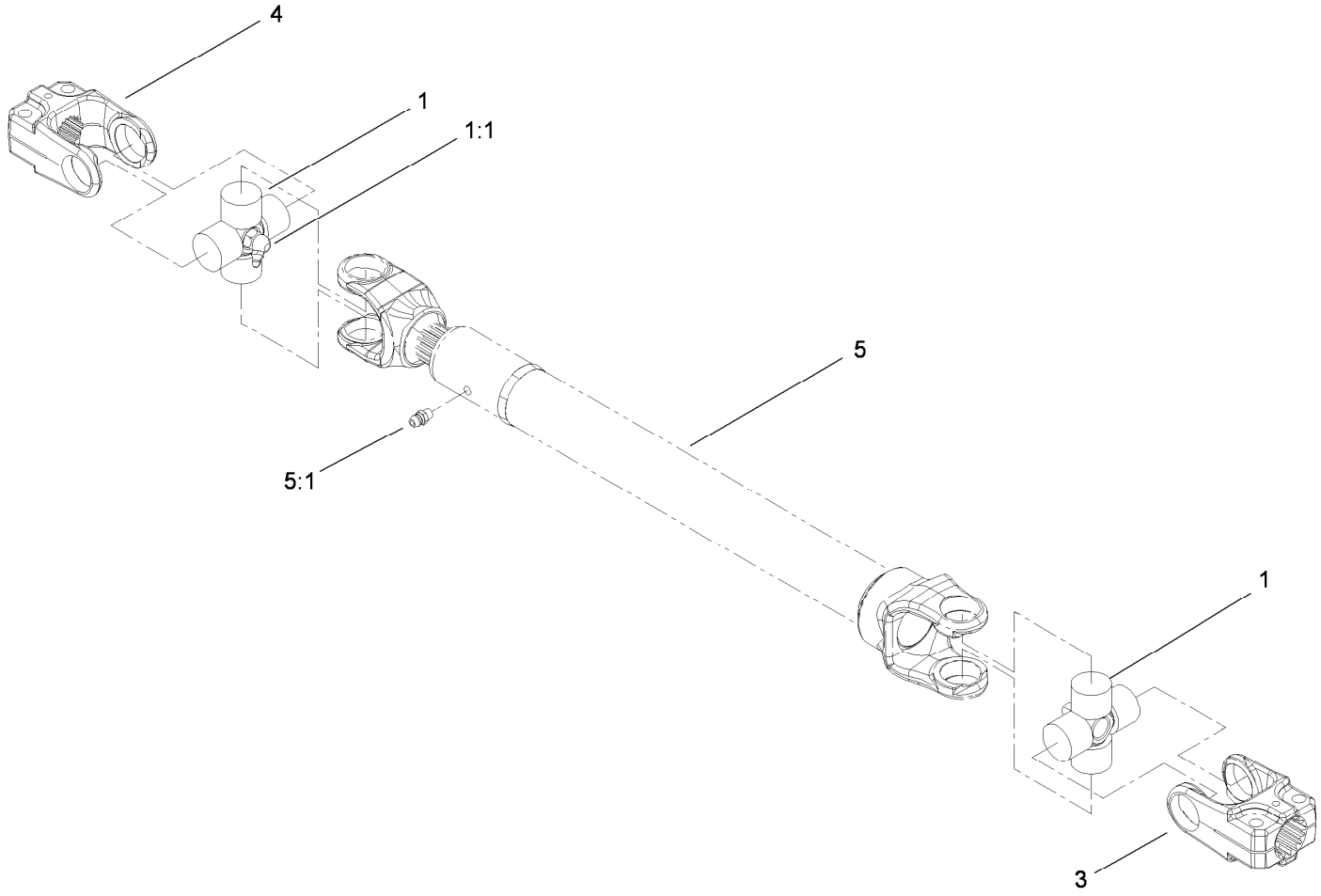


Gear Case and Clutch Assembly
Transmission Assembly No. 120-9140

Ref.	*Part Number*	*Qty.*	*Description*
1	107-0839	1	PTO Brake ASM
2	107-0837	3	Rod-Push
3	107-0833	1	PTO Shaft ASM
4	107-0825	2	Ring-Seal
5	107-0827	1	Shaft-Pump
6	107-0823	2	Gear-Pump
7	92-0765	4	Pin-Parallel
9	107-0826	4	Bearing
10	120-5152	1	Housing-Case, Gear
11	107-0863	13	Bolt
12	92-0757	1	Ring-Snap
13	107-0813	1	Spacer
16	107-0861	1	Plug-NPTF
18	107-0857	6	Plug
19	107-0811	1	Pipe
20	107-0821	2	Bearing

Ref.	*Part Number*	*Qty.*	*Description*
21	107-0836	1	Spacer
22	107-0820	1	Gear-Input
23	107-0834	1	Gear-PTO
24	107-0822	1	Shaft-Pump
25	107-0819	1	Shaft-Input
26	92-0758	1	Ring-Snap
27	107-0838	3	Bearing
28	107-0866	1	Key
29	107-0835	1	Clutch Cylinder ASM
30	107-0854	1	Gear Housing Seal Kit
30:1	107-0817	2	O Ring-Plug
30:2		2	O-Ring ●
30:3	104-3298	1	Packing
30:4	107-0814	1	Seal
30:5	107-0816	1	Gasket-Housing, Gear

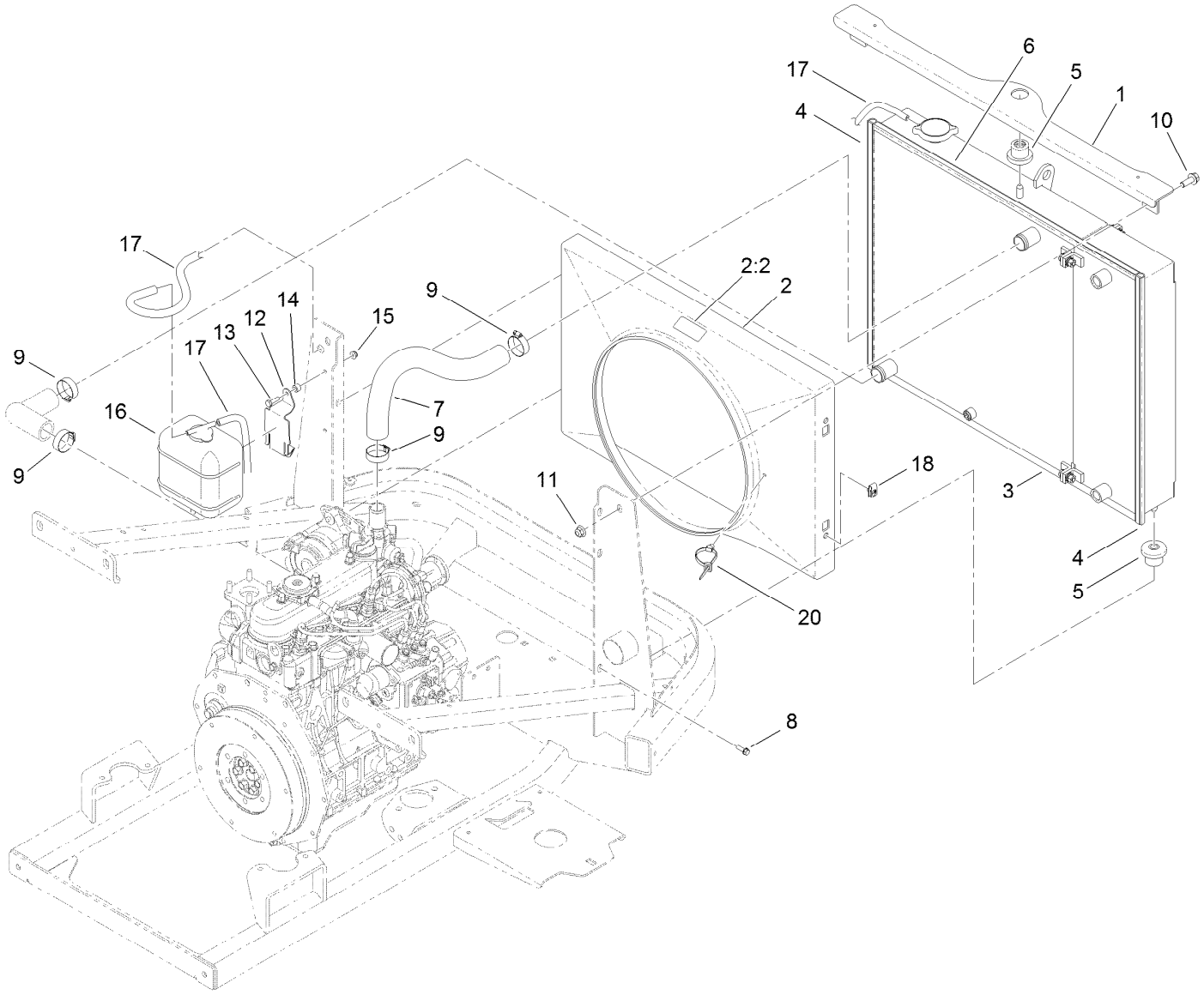
● Not serviced separately



Driveshaft Assembly No. 110-3575

Ref.	*Part Number*	*Qty.*	*Description*
1	112-1687	2	Cross And Bearing Kit
1:1	62-3820	1	Fitting-Grease
3	54-9040	1	Yoke-End
4	54-9090	1	Yoke-End
5		1	Tube-Yoke, Slip ●
5:1	302-22	1	Fitting-Grease

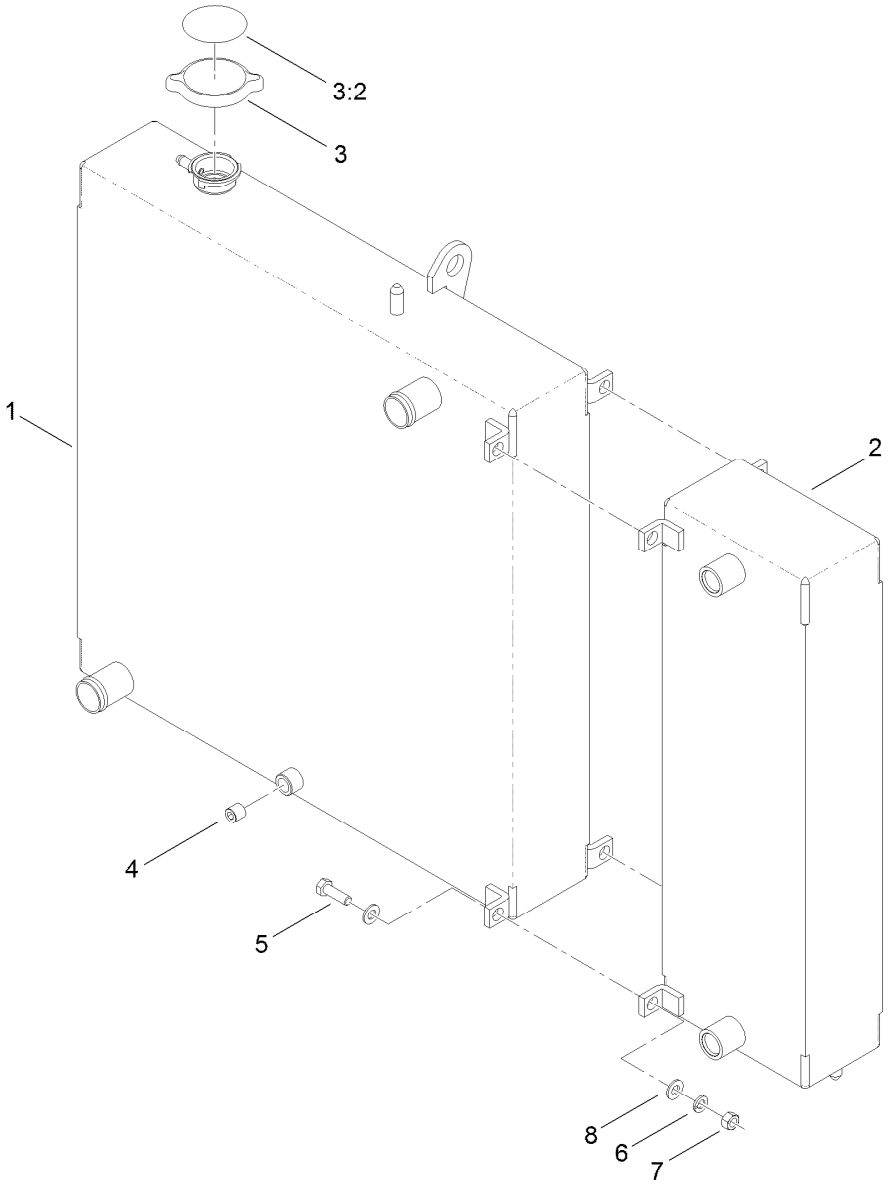
● Not serviced separately



Radiator Component Assembly

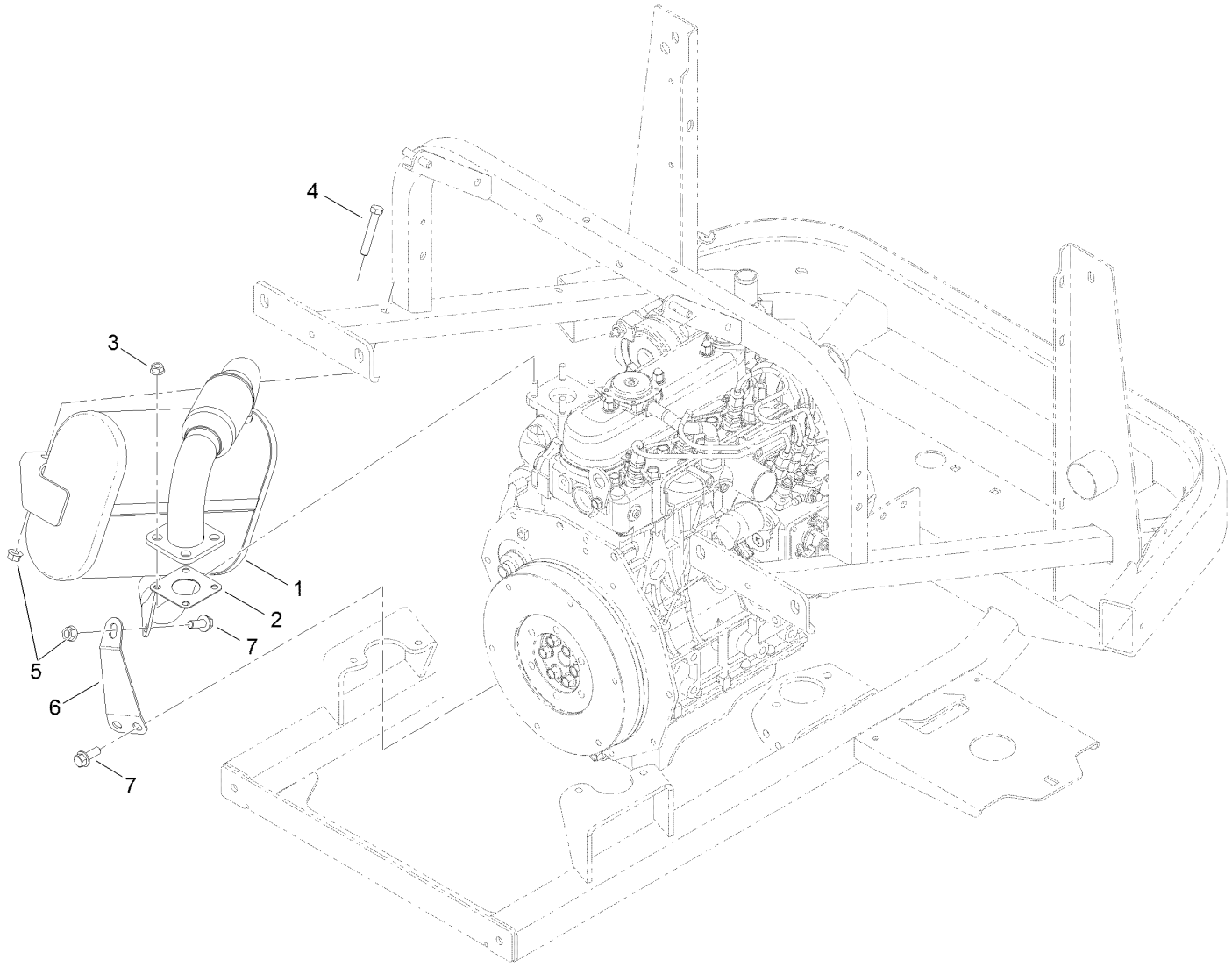
Ref.	Part Number	Qty.	Description
1	119-1423-03	1	Support-Radiator
2	117-3268	1	Shroud Fan ASM
2:2	117-4766	1	Decal-Warning, Fan
3		1	Radiator And Cooler ASM ●
4	119-1426	2	Seal-Bulb
5	119-1422	3	Mount-Isolator
6	119-1427	2	Seal-Bulb
7	120-6716	1	Hose-Radiator, Upper
8	32105-15	4	Screw-HWH
9	2412-34	4	Clamp-Hose
10	3234-42	2	Screw-HHF
11	104-8301	2	Nut-Flange, NI
12	108-9930-03	1	Bracket-Bottle
13	321-8	2	Screw-HH
14	22-7810	2	Spacer
15	104-7201	2	Nut-HF
16	108-0638	1	Bottle-Overflow
17	108-3284	2	Hose-Fuel
18	107069	4	Clip
20	32180-030	1	Clip-Tie

● Not serviced separately



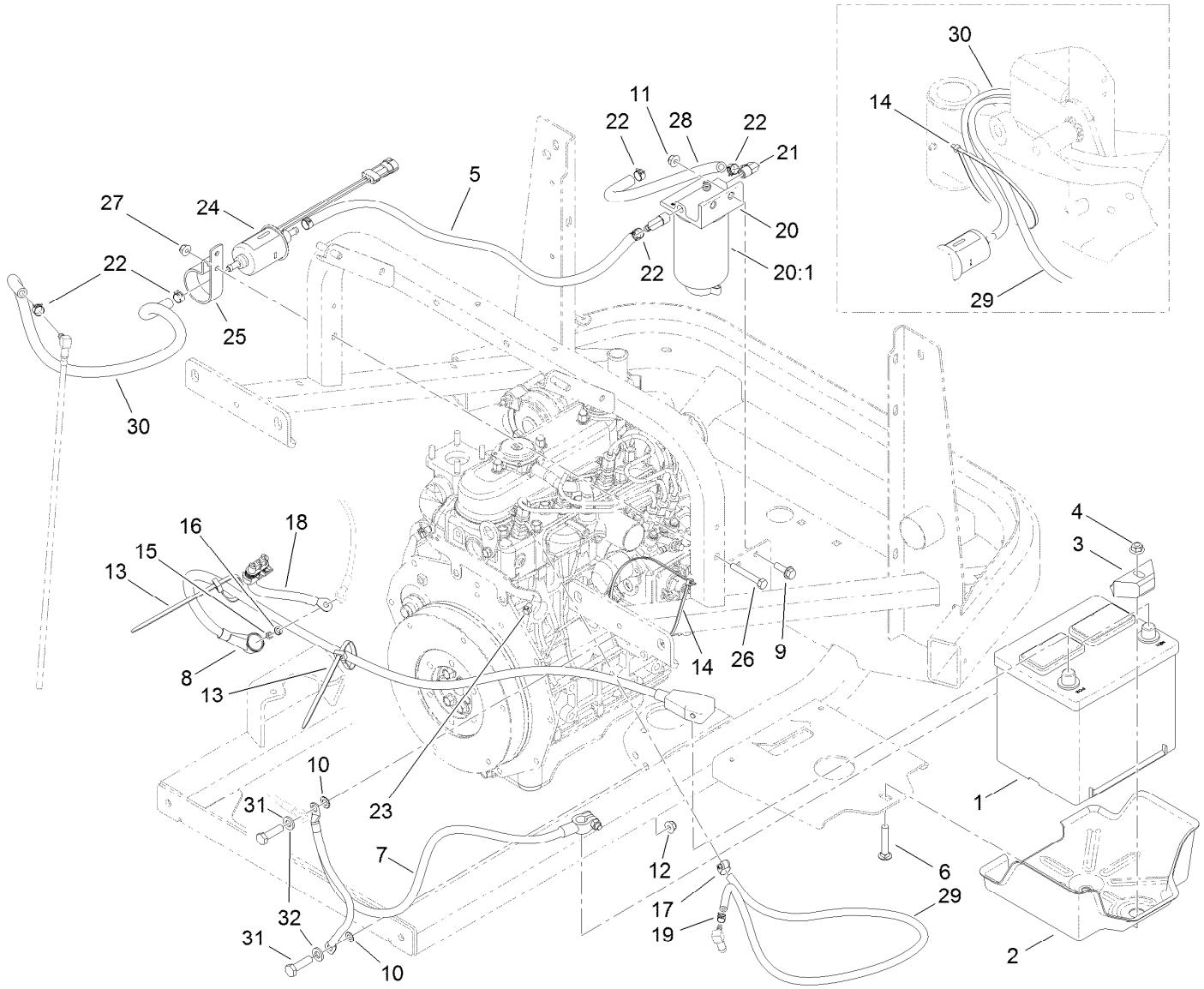
Radiator and Cooler Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	115-0050	1	Radiator
2	115-0051	1	Cooler
3	119-1430	1	Radiator Cap ASM
3:2	117-3276	1	Decal-Danger
4	99-8551	1	Plug-Pipe
5	322-5	4	Screw-HH
6	3253-4	4	Washer-Lock
7	3217-6	4	Nut-Hex
8	3256-23	8	Washer-Flat



Muffler Assembly

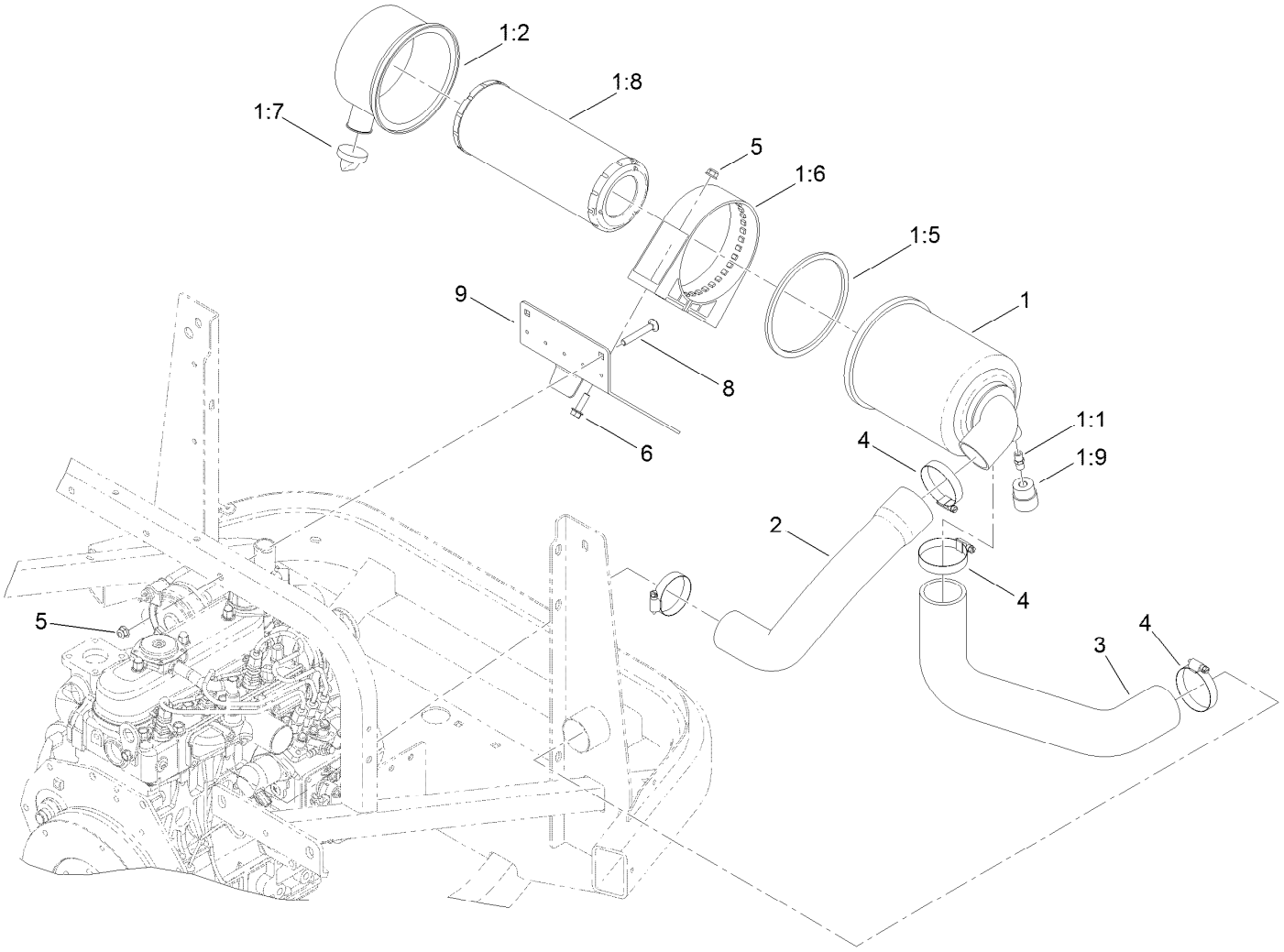
Ref.	*Part Number*	*Qty.*	*Description*
1	120-6709	1	Muffler
2	98-9611	1	Gasket
3	33004-00	4	Nut-HF
4	323-11	2	Screw-HH
5	32128-21	5	Nut-HF
6	120-6710-03	1	Support-Muffler
7	3234-42	3	Screw-HHF



Battery and Fuel Delivery Assembly

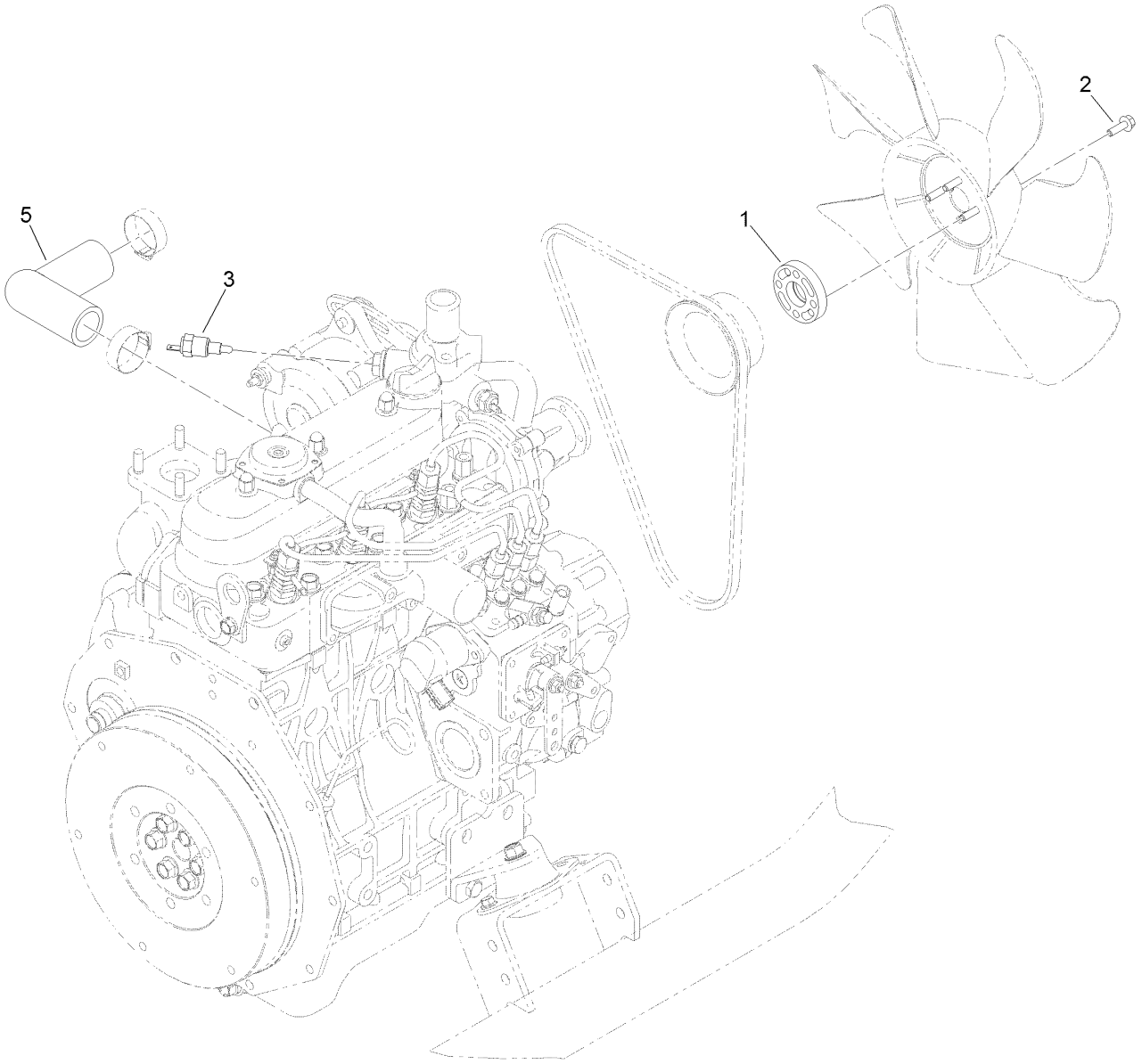
Ref.	Part Number	Qty.	Description
1	106-5187	1	Battery-Dry
2	117-3027	1	Tray-Battery
3	66-2490	1	Retainer-Battery
4	104-8301	1	Nut-Flange, NI
5	109-0274	1	Hose-Fuel
6	3231-6	1	Screw-CARR
7	110-8813	1	Cable-Battery, Negative
8	104-0086	1	Cable-Battery, Positive
9	3234-17	2	Screw-HHF
10	3255-8	2	Washer-Lock
11	104-8300	2	Nut-Flange, NI
12	32128-25	2	Nut-HF
13	3290-378	2	Tie-Cable
14	3290-379	1	Tie-Cable
15	33014-00	1	Nut-Hex
16	3253-4	1	Washer-Lock
17	2412-108	1	Clamp-Worm

Ref.	Part Number	Qty.	Description
18	99-3441	1	Harness-Wire, Fusible Link
19	2412-80	1	Clamp-Hose
20	110-9044	1	Seperator Filter ASM
20:1	110-9049	1	Filter-Spin On
21	353-781	2	Fitting-Elbow
22	92-2379	6	Clamp-Hose
23	32180-030	2	Clip-Tie
24	110-8806	1	Pump-Fuel
25	110-8817	1	Bracket-Pump, Fuel
26	321-15	1	Screw-HH
27	104-7201	1	Nut-HF
28	106-1126	1	Hose-Fuel
29	110-3958	1	Hose-Fuel
30	110-3257	1	Hose-Fuel
31	322-6	2	Screw-HH
32	3256-23	2	Washer-Flat



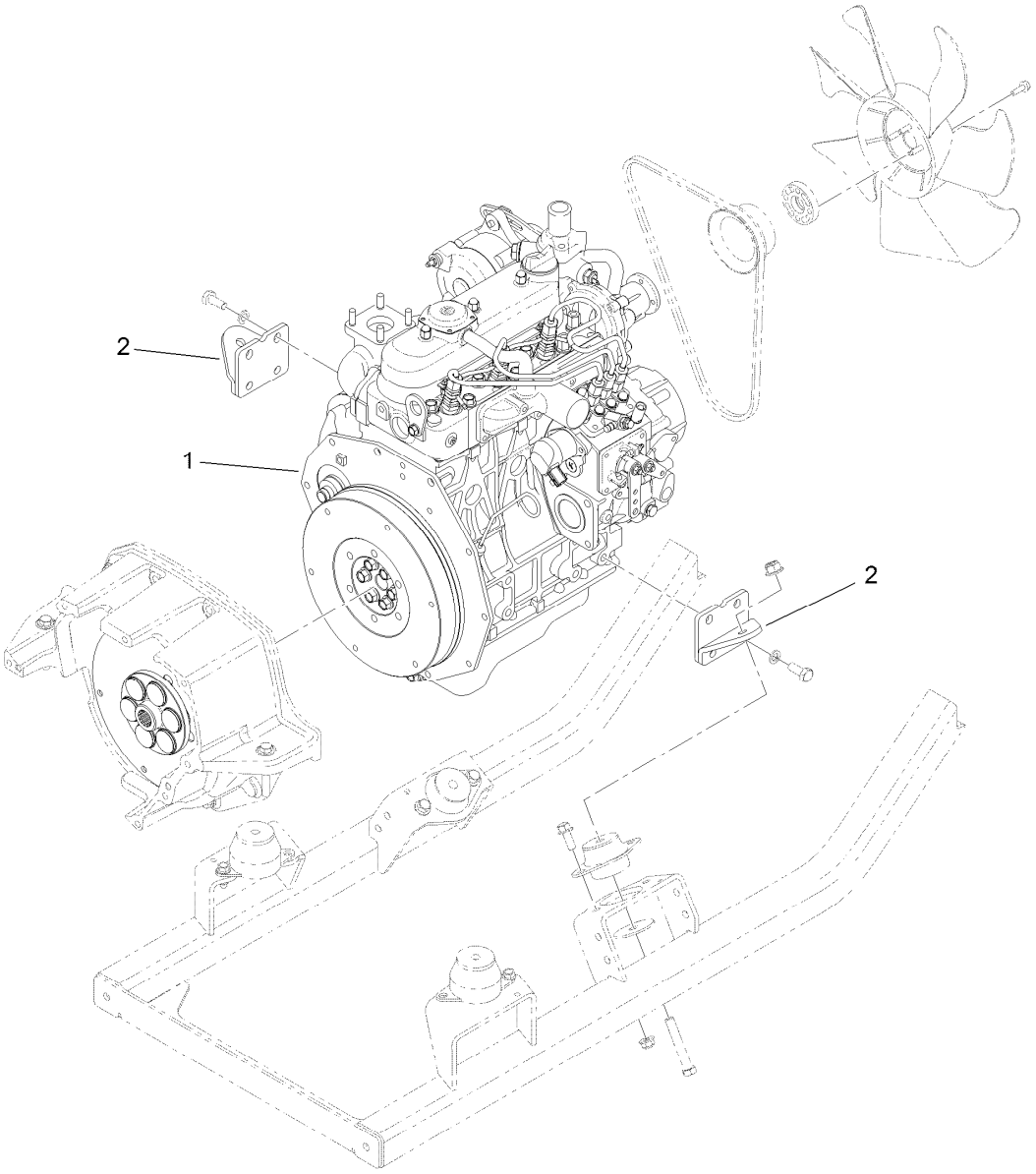
Air Cleaner Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	104-3428	1	Air Cleaner ASM
1:1	105-4292	1	Nipple-Pipe
1:2	104-0497	1	Cover
1:5	104-4897	1	Gasket
1:6	98-4525	1	Bracket-Cleaner, Air
1:7	104-0498	1	Valve-Vacuator
1:8	108-3810	1	Filter-Air
1:9	93-9164	1	Indicator-Mini
2	120-6711	1	Hose-Air Intake, Engine
3	120-6712	1	Hose-Inlet, Air
4	2412-130	4	Clamp-Hose
5	104-8300	4	Nut-Flange, NI
6	3234-17	2	Screw-HHF
8	3230-7	2	Bolt-CARR
9	120-6715-03	1	Plate-Cleaner, Air



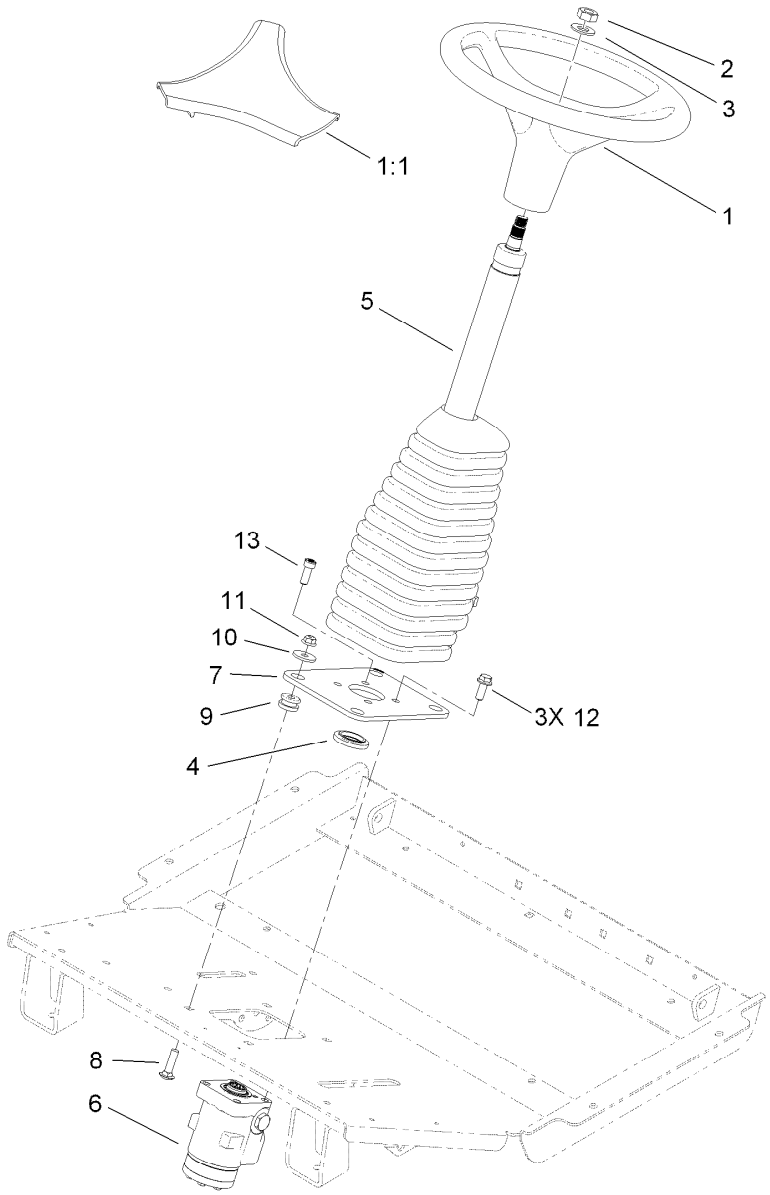
Fan Spacer and Thermoswitch Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	104-4247	1	Spacer-Fan
2	33103-020	4	Screw-HHF
3	98-9719	1	Thermoswitch
5	115-0331	1	Hose-Radiator, Lower



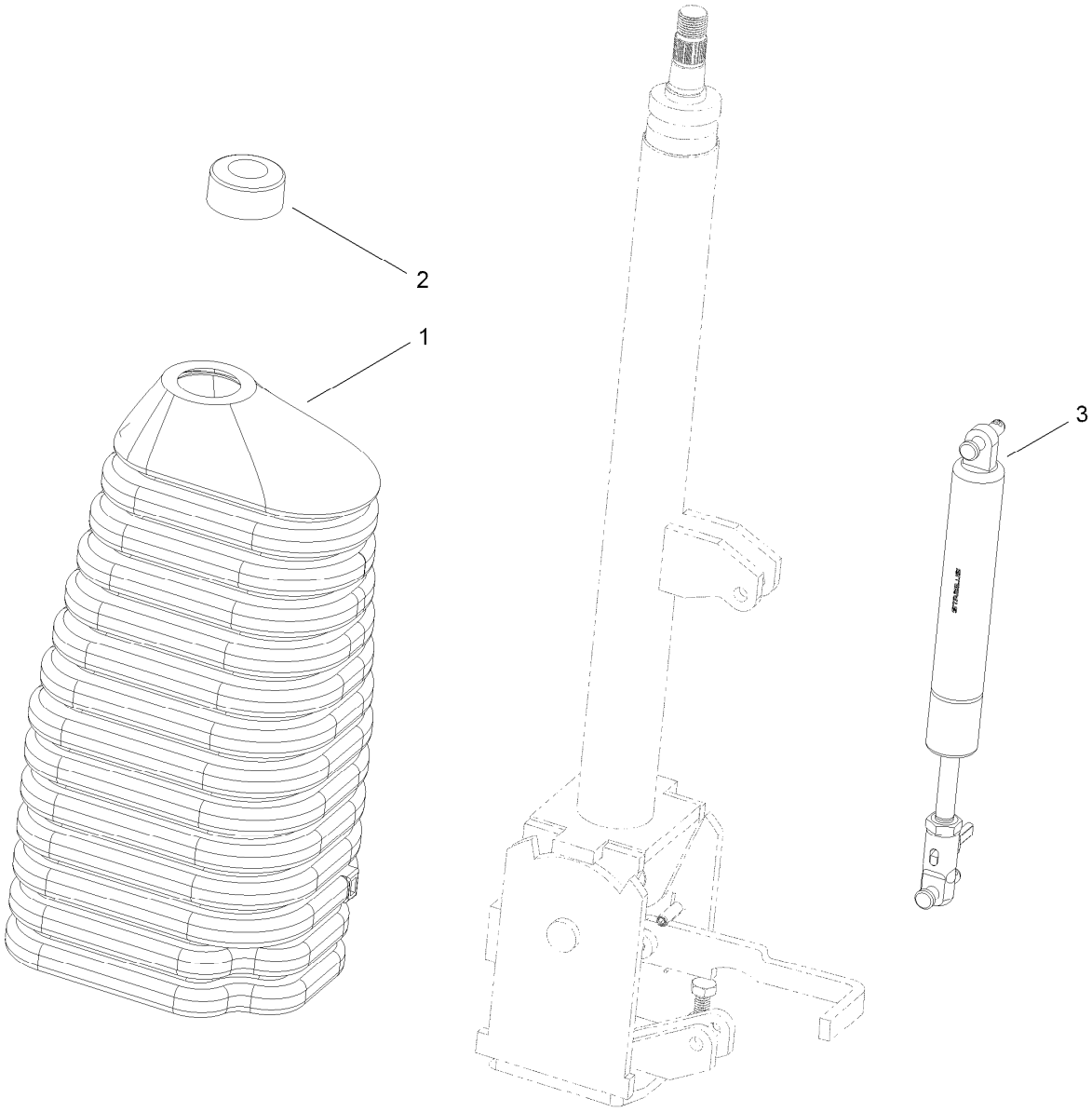
Engine Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	127-9661	1	Engine-Kubota, D1105
2	105-7235-03	2	Mount-Rear



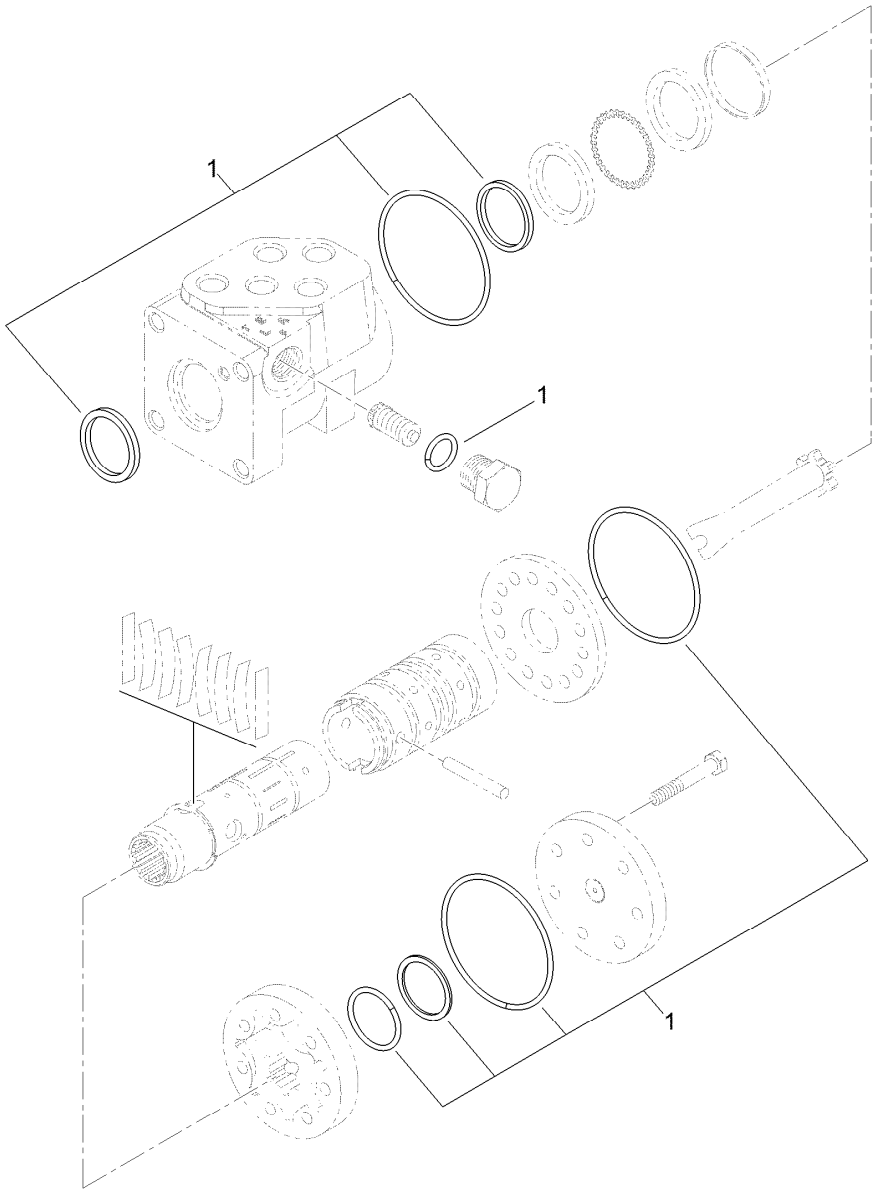
Steering Column Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	98-1471	1	Wheel-Steering
1:1	98-1468	1	Cover-Wheel, Steering
2	3296-33	1	Nut-Lock, NI
3	3256-27	1	Washer-Flat
4	117-3373	1	Bushing-Alignment
5	117-3371	1	Column-Steering
6	130-7948	1	Valve-Control, Steering
7	117-3234-03	1	Plate-Steering
8	3231-26	4	Screw-CARR
9	63-9750	4	Mount
10	63-8410	4	Washer
11	104-8301	4	Nut-Flange, NI
12	108-1531	3	Screw-HHF
13	3273-41	1	Screw-HSH



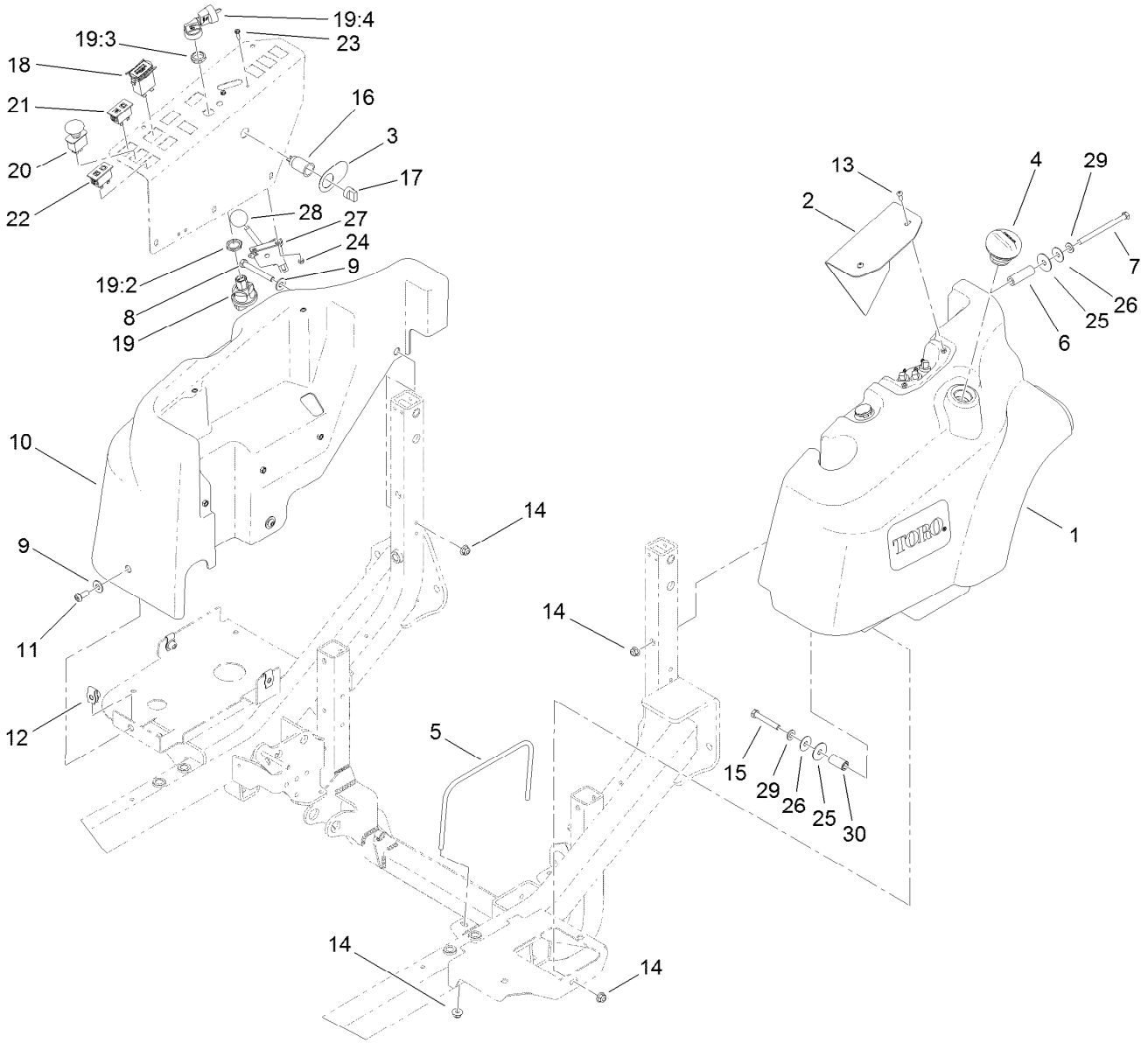
Steering Column Assembly No. 117-3371

Ref.	*Part Number*	*Qty.*	*Description*
1	120-2592	1	Boot-Rubber, Column
2	120-2593	1	Boot-Rubber, Bearing
3	120-2594	1	Gas Spring ASM



Steering Valve Assembly No. 130-7948

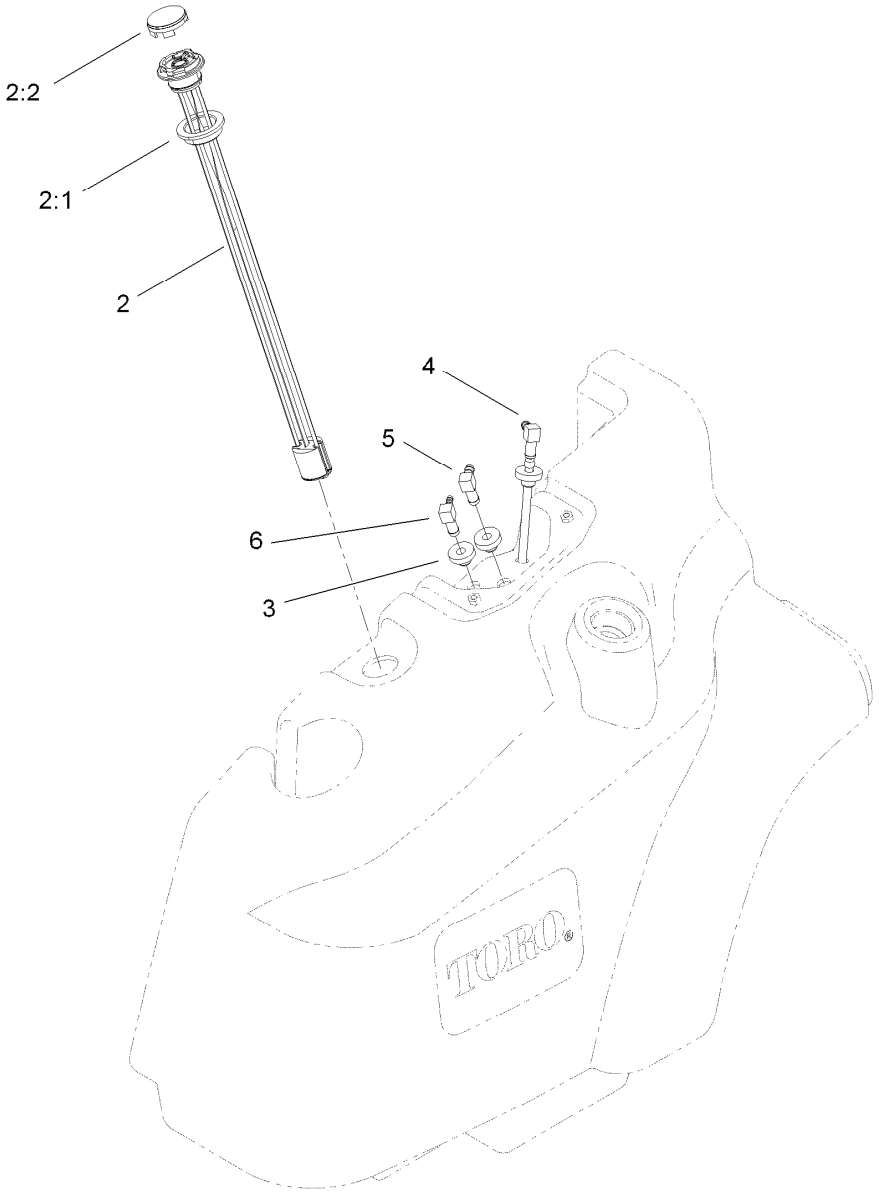
Ref.	*Part Number*	*Qty.*	*Description*
1	130-8357	1	Seal Kit



Fuel Tank and Control Panel Component Assembly

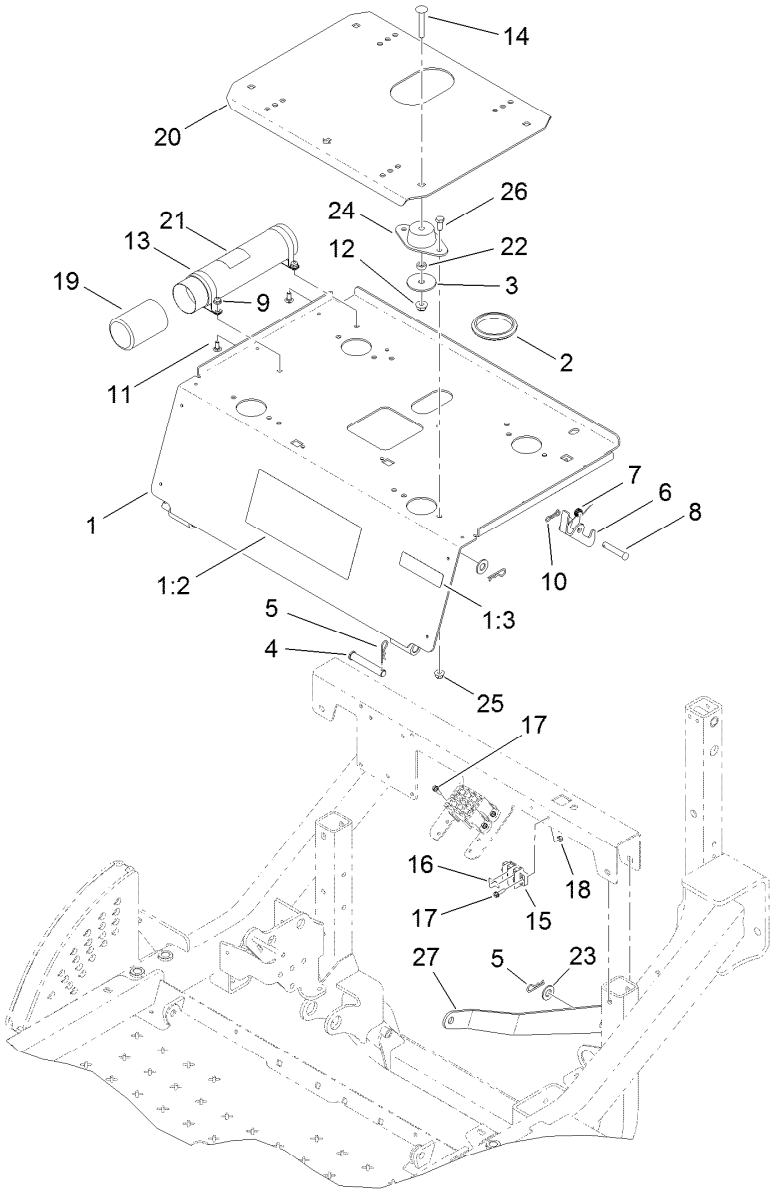
Ref.	Part Number	Qty.	Description
1	120-0255	1	Fuel Tank ASM
2	117-3359-03	1	Plate-Cover
3	106-2353	1	Decal-Powerpoint
4	115-5305	1	Cap-Fuel
5	117-3394	1	Bracket-Tank
6	117-3387	1	Tube-Spacer
7	323-39	1	Screw-HH
8	323-14	1	Screw-HH
9	100-7403	4	Washer-Flat
10	117-3353	1	Cover-Tank, HYD
11	3274-94	3	Screw-HSBH
12	105-4886	3	Nut-Tinnerman
13	3274-31	2	Screw-HSBH
14	104-8301	5	Nut-Flange, NI
15	323-12	1	Screw-HH
16	99-7411	1	Point-Power
17	99-7416	1	Cap

Ref.	Part Number	Qty.	Description
18	1-513374	1	Meter-Hour
19	121-5159	1	Ignition Switch ASM
19:2	121-5160	1	Nut-Hex
19:3	121-5161	1	Nut-Face
19:4	121-5162	1	Ignition Key Set
20	95-4108	1	Switch-PTO
21	100-8070	1	Lamp-Warning
22	100-8071	1	Lamp-Warning
23	32105-13	2	Screw-HWH
24	3296-2	2	Nut-Lock, NI
25	95-1905	2	Washer-Rubber
26	105-6814	2	Washer-Plain
27	110-5547	1	Lever-Control
28	233-42	1	Knob
29	3256-24	2	Washer-Flat
30	110-3726	1	Spacer



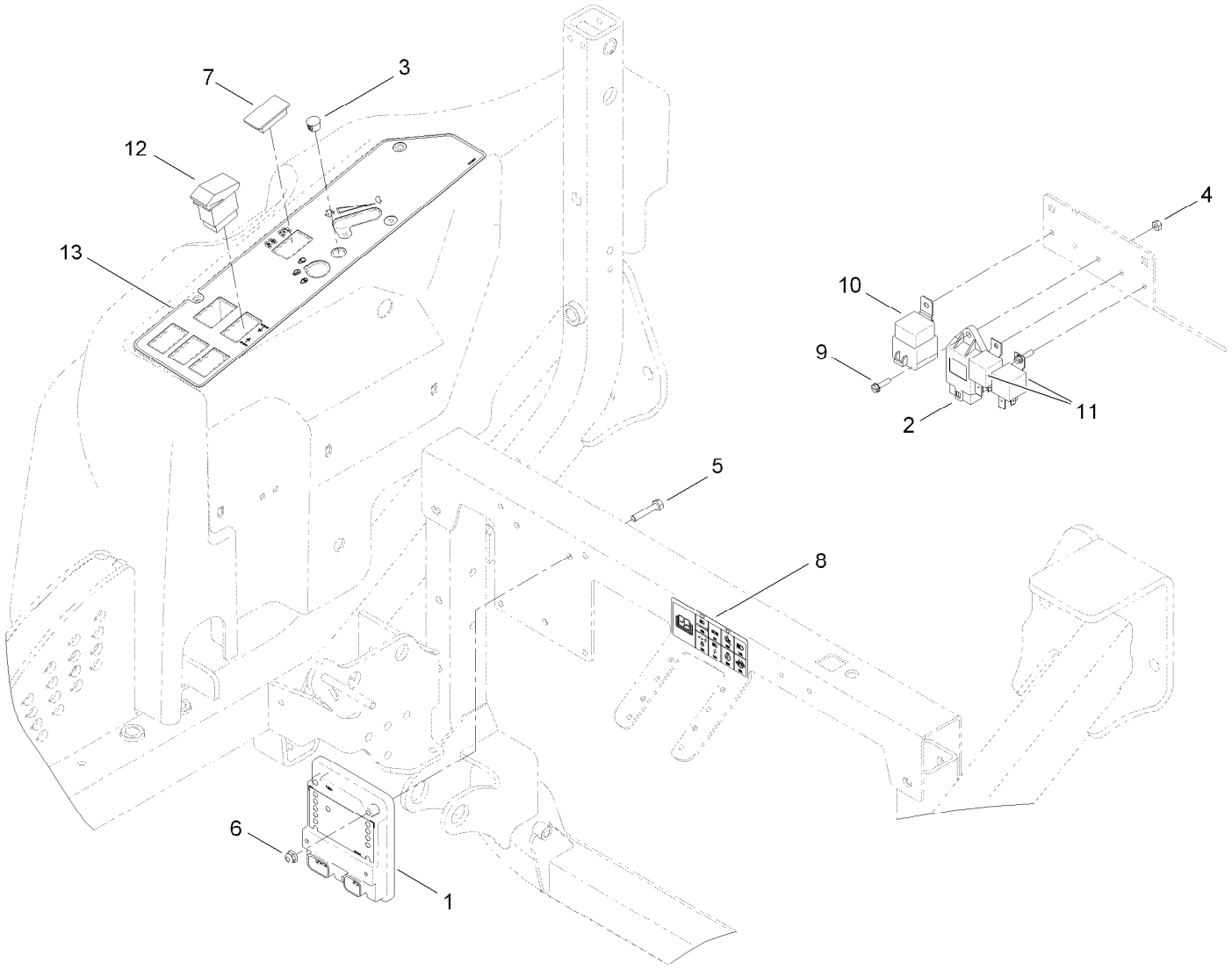
Fuel Tank Assembly No. 120-0255

Ref.	*Part Number*	*Qty.*	*Description*
2	117-3238	1	Gauge-Fuel
2:1	119-0508	1	Seal
2:2	117-8404	1	Dial-Gauge
3	46-6560	3	Bushing
4	117-3370	1	Pipe-Stand
5	46-6550	1	Fitting-Elbow, 90 DEG
6	104-5228	1	Fitting-Elbow, 90 DEG



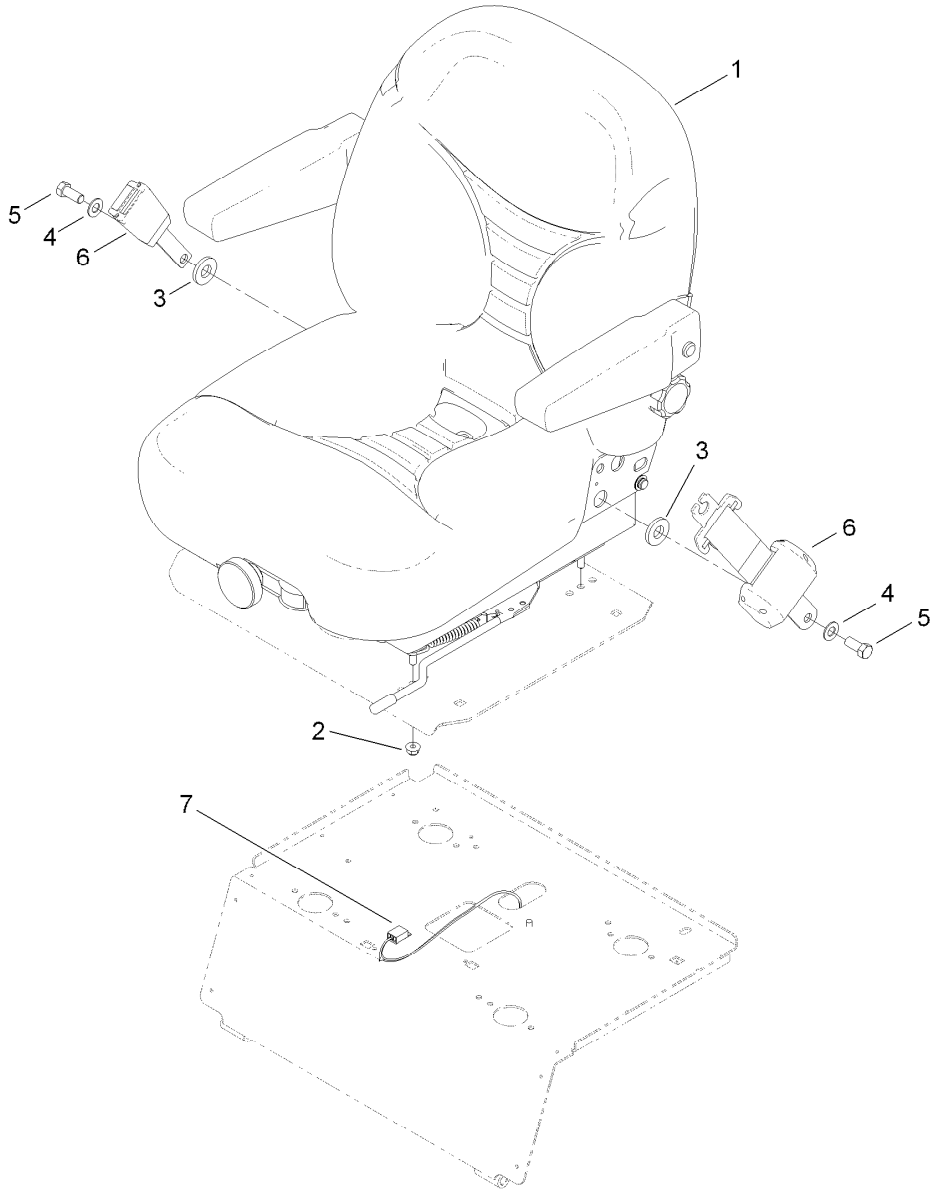
Seat Plate Assembly

Ref.	Part Number	Qty.	Description
1	120-0244	1	Seat Plate ASM
1:2	117-3273	1	Decal-Operation, Warning
1:3	117-2718	1	Decal-Arrester, Spark
2	237-164	1	Grommet
3	83-1040	4	Washer-Flat
4	283-55	2	Pin-Clevis
5	3290-467	4	Pin-Hair
6	117-3067	1	Latch-Seat
7	104-4821	1	Spring-Torsion
8	283-82	1	Pin-Clevis
9	104-7201	2	Nut-HF
10	119-1415	1	Pin-Cotter, Locking
11	3229-1	2	Bolt-CARR
12	104-8301	4	Nut-Flange, NI
13	107-1865	2	R-Clamp
14	3231-40	4	Bolt-CARR, Short Neck
15	42862	1	Block-Terminal, Ground
16	42863	1	Strip-Jumper
17	32105-13	4	Screw-HWH
18	3296-2	4	Nut-Lock, NI
19	104-7048	1	Cap-Housing
20	117-3065-03	1	Plate-Seat
21	104-7050	1	Tube-Manual
22	83-1050	4	Spacer
23	3256-26	2	Washer-Flat
24	83-1030	4	Mount-Engine
25	104-8300	8	Nut-Flange, NI
26	322-3	8	Screw-HH
27	120-0242-01	1	Strap-Prop



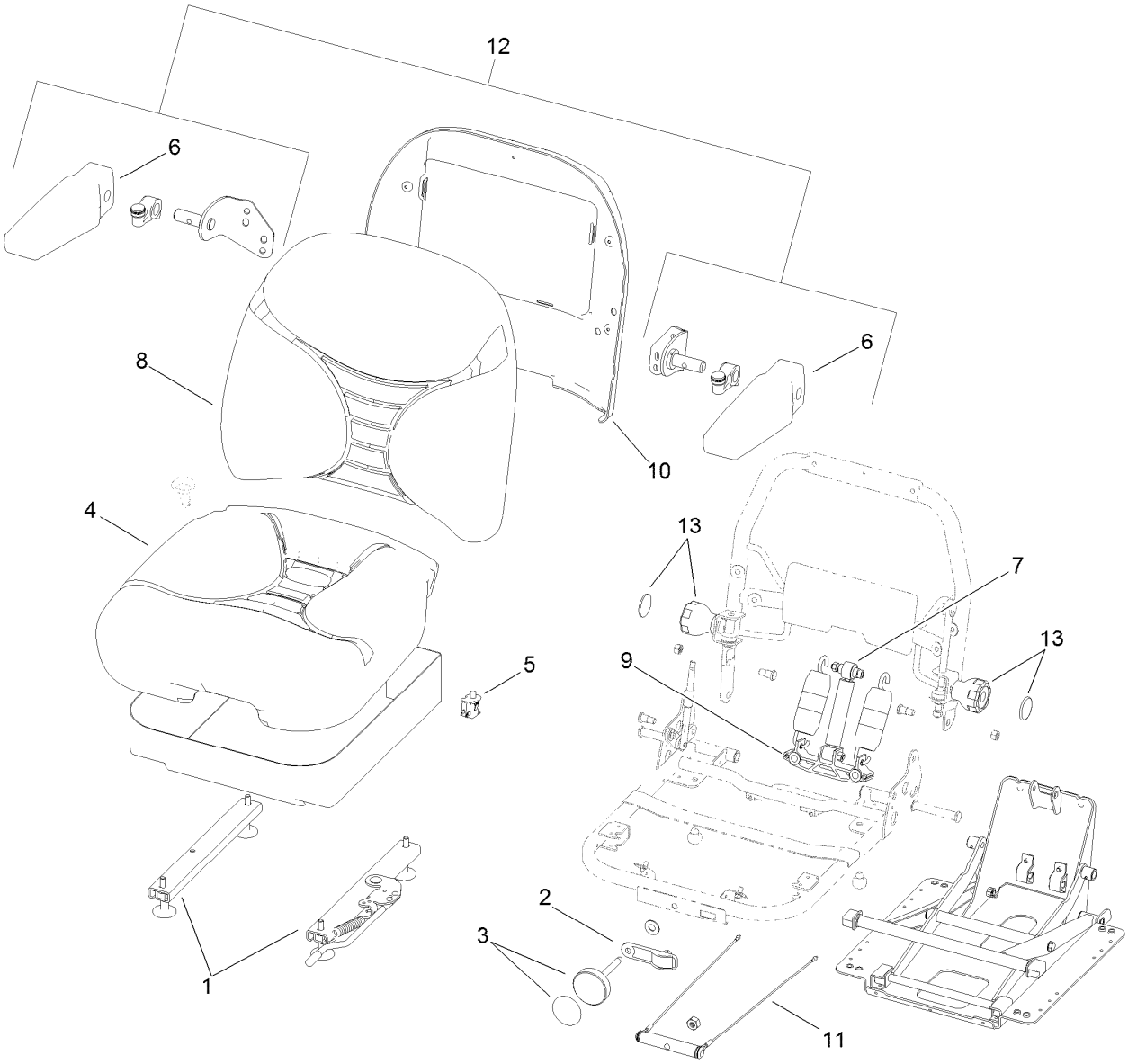
2 Wheel Drive Module Control and Relay Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	106-9277	1	Module-Control, Standard
2	107-9097	1	Controller-Glow
3	2410-64	1	Plug-Button
4	3296-2	4	Nut-Lock, NI
5	321-13	3	Screw-HH
6	104-7201	3	Nut-HF
7	99-7420	1	Plug-Hole
8	117-3232	1	Decal-Fuseblock
9	32105-13	4	Screw-HWH
10	99-7430	1	Relay
11	99-7435	2	Relay-Power
12	105-4320	1	Switch
13	120-0257	1	Decal-Control Panel



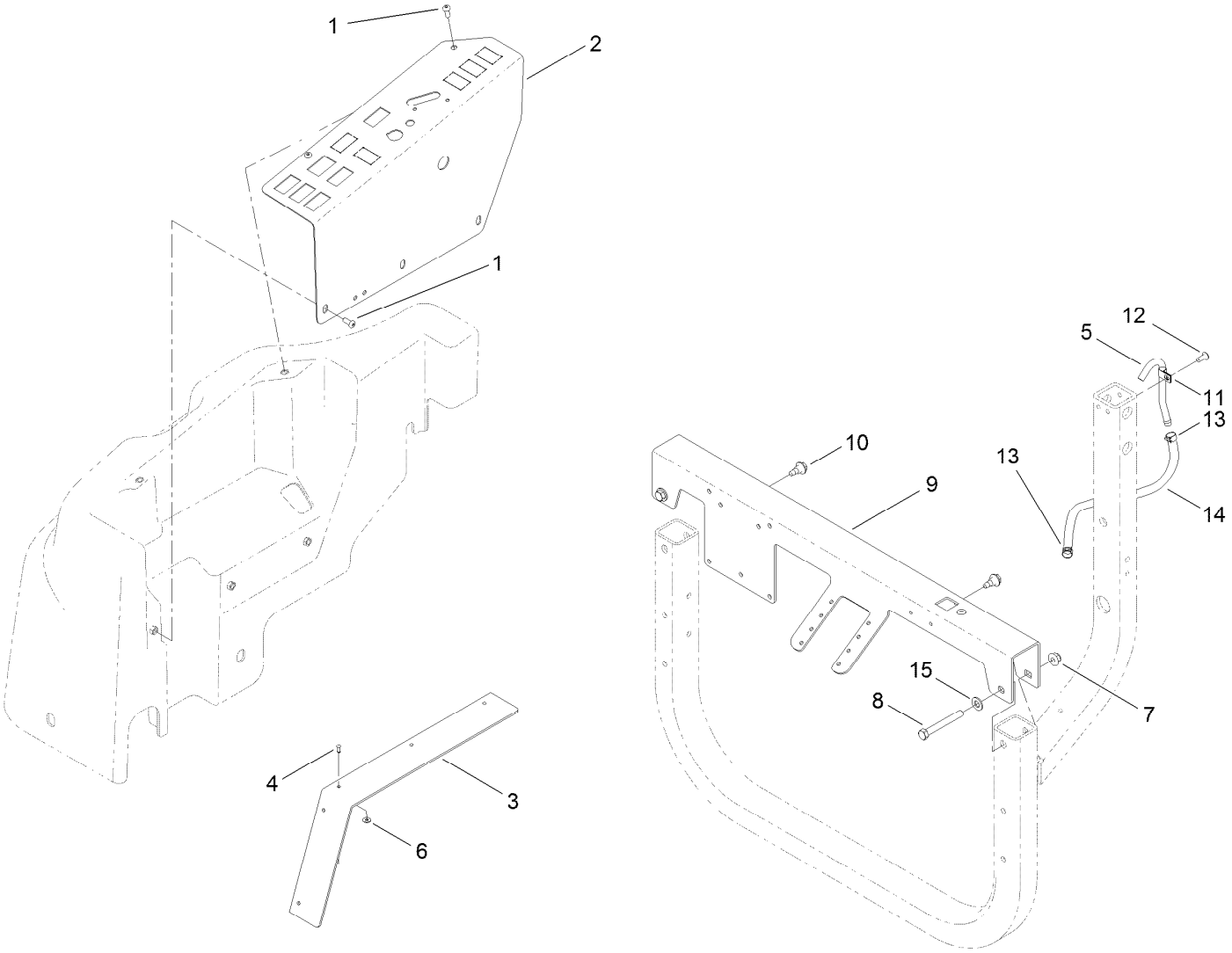
Seat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	107-2286	1	Seat ASM
2	104-8300	4	Nut-Flange, NI
3	99-7667	2	Washer-Flat
4	3256-25	2	Washer-Flat
5	3212-4	2	Screw-HH
6	110-0413	1	Seatbelt-Retractable
7	119-5786	1	Harness-Wire, Seat-Standard



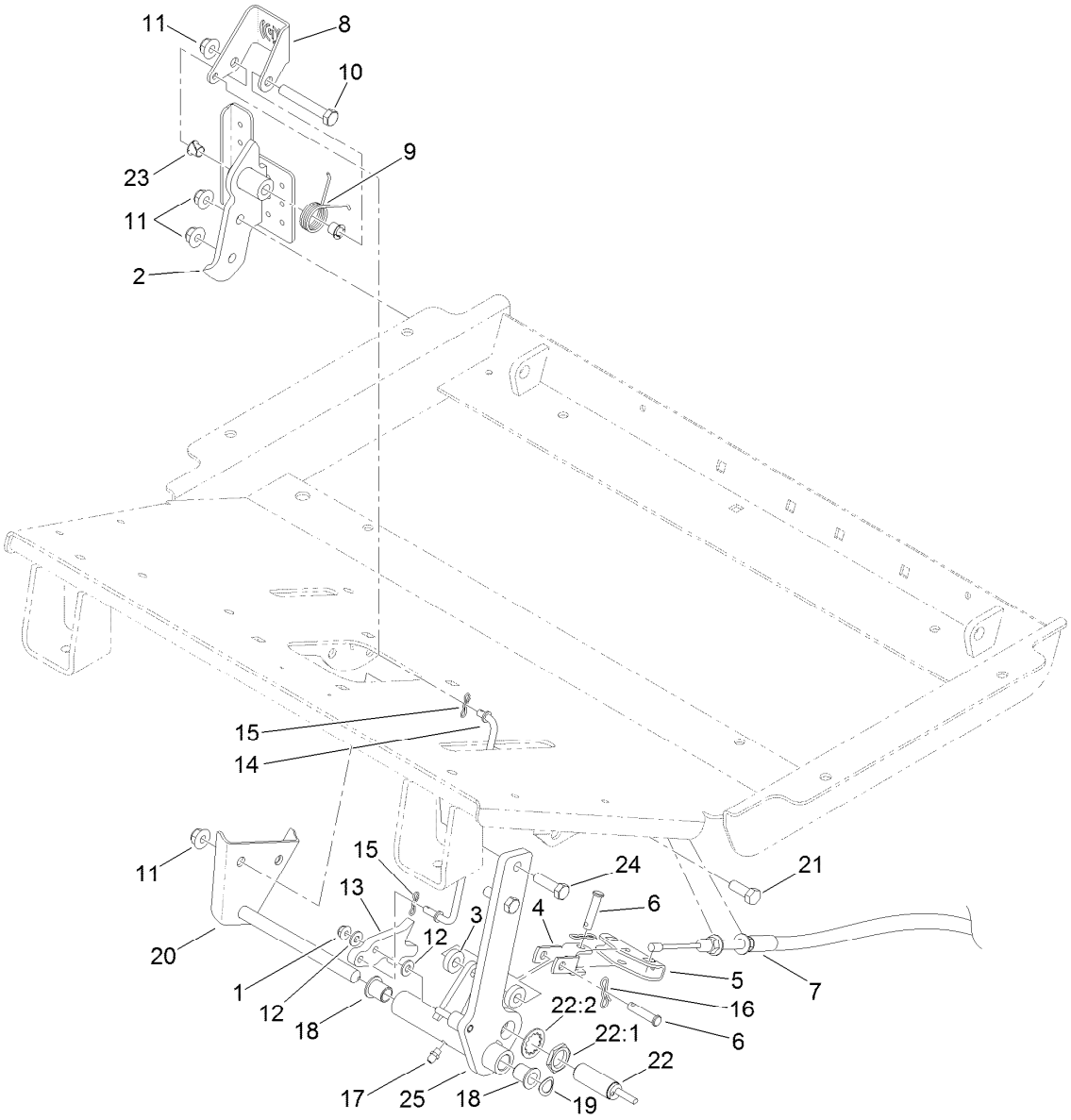
Seat Assembly No. 107-2286

Ref.	*Part Number*	*Qty.*	*Description*
1	107-1880	1	Seat Track Kit
2	107-1885	1	Weight Indicator Kit
3	121-9431	1	Knob Kit
4	107-1883	1	Bottom Cushion Kit
5	82-2190	1	Switch-Bail
6	107-1887	2	Pad-Armrest
7	107-1884	1	Shock Absorber Kit
8	107-1882	1	Back Cushion Kit
9	109-3343	1	Spring And Saddle Kit
10	109-3344	1	Back Panel Kit
11	109-3345	1	Weight Adjust Kit
12	121-9415	1	Armrest Kit
13	121-9432	2	Adjust Knob Kit



Seat Platform Assembly

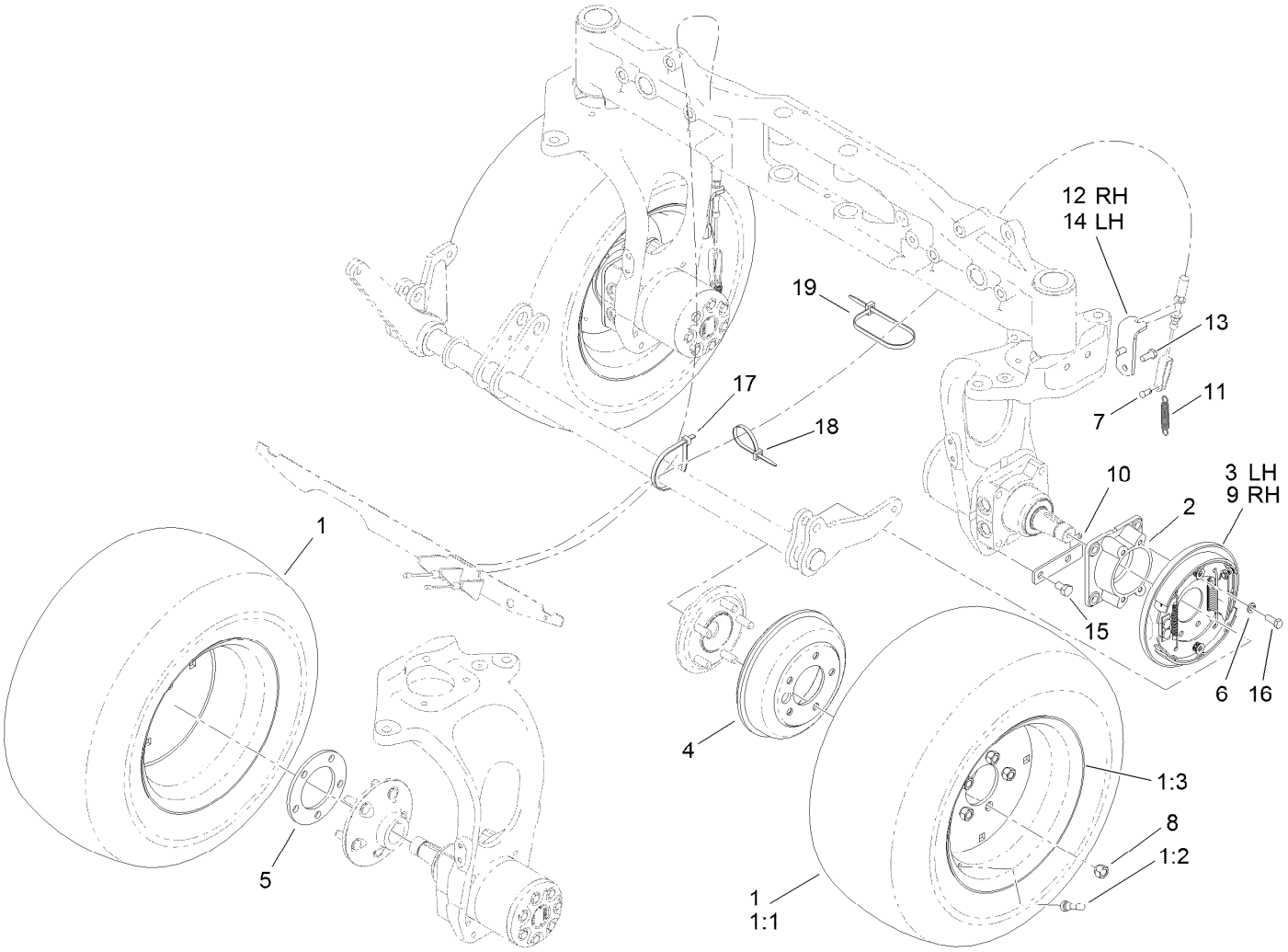
Ref.	*Part Number*	*Qty.*	*Description*
1	3274-31	5	Screw-HSBH
2	121-5352-03	1	Panel-Control, Tank
3	117-3175	2	Strap-Filler
4	3290-282	10	Rivet-Blind
5	120-6820	1	Tube-Vent
6	3269-26	10	Washer-Plain
7	104-8301	2	Nut-Flange, NI
8	323-14	2	Screw-HH
9	117-3064-03	1	Channel-Seat
10	99-5105	2	Bolt-Shoulder
11	2412-89	1	Clamp-R
12	3290-412	1	Rivet
13	92-2379	2	Clamp-Hose
14	110-4101	1	Hose-Fuel
15	3256-24	2	Washer-Flat



Brake Pedal Assembly

Ref.	Part Number	Qty.	Description
1	104-7201	1	Nut-HF
2	119-1403-03	1	Pedal-Brake
3	5-0652	2	Spacer
4	115-8060	1	Clevis-Double
5	115-8059	1	Yoke-Cable
6	283-14	2	Pin-Clevis
7	117-3214	2	Cable-Brake
8	119-1407	1	Pedal-Park
9	99-7140	1	Spring-Torsion
10	323-12	1	Screw-HH
11	104-8301	5	Nut-Flange, NI
12	3256-22	2	Washer-Flat
13	119-1406	1	Detent-Brake
14	119-1405	1	Rod-Brake Pawl

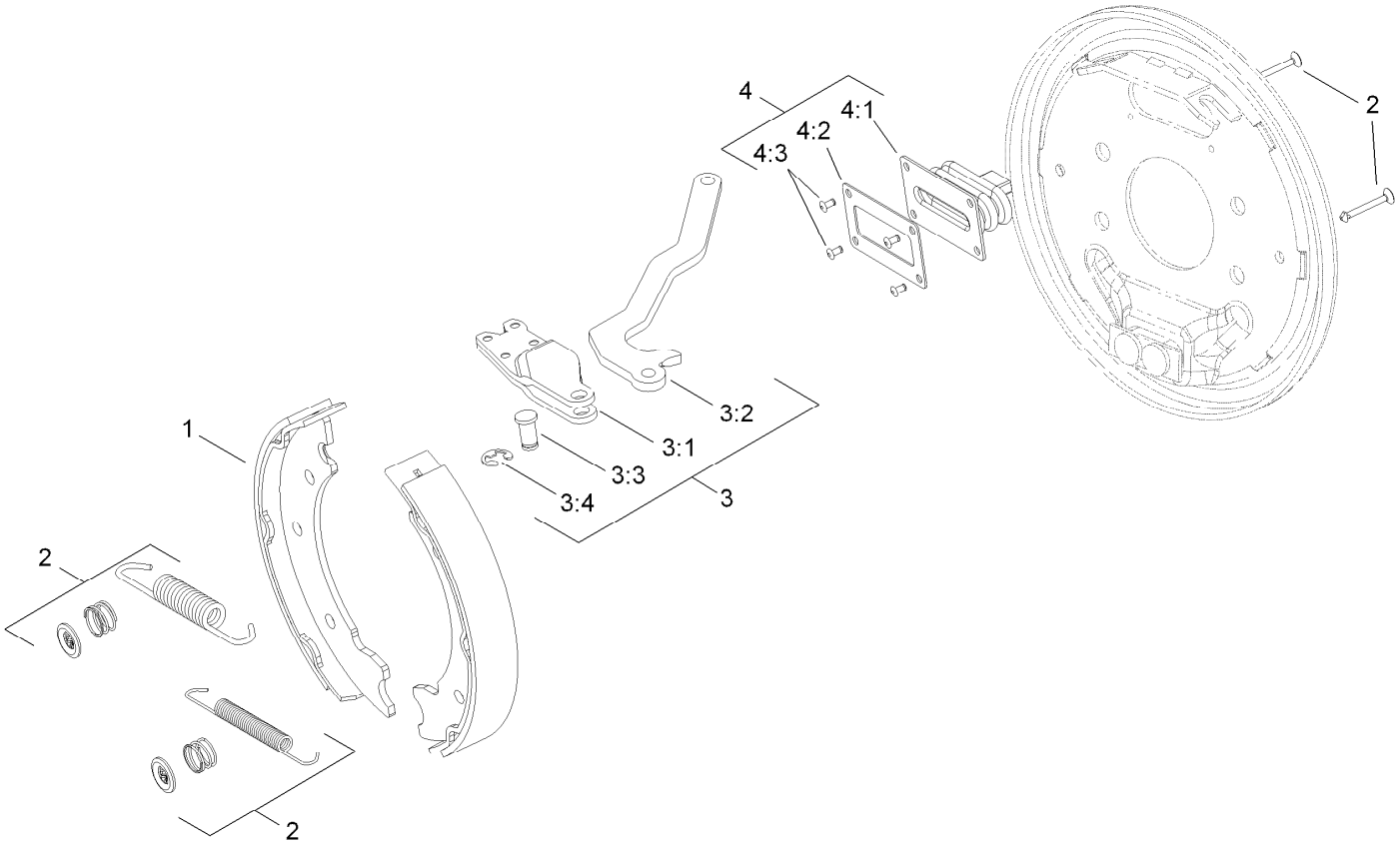
Ref.	Part Number	Qty.	Description
15	119-1414	2	Pin-Cotter, Locking
16	119-1415	2	Pin-Cotter, Locking
17	302-5	1	Fitting-Grease
18	125-8775	2	Bushing-Flange
19	3290-221	1	Washer-Spring
20	119-1388	1	Brake Pin ASM
21	323-6	2	Screw-HH
22	115-5300	1	Proximity Switch ASM
22:1	117-3207	2	Nut-Hex
22:2	117-3208	2	Washer-Lock, Internal Tooth
23	52-2891	2	Bushing-Flanged, Nylon
24	323-7	2	Screw-HH
25	119-1400-03	1	Lever-Brake



Wheel and Brake Assembly

Ref.	Part Number	Qty.	Description
1	117-2900	4	Tire And Wheel ASM
1:1	117-2901	1	Tire
1:2	232-27	1	Stem-Valve
1:3	117-2902	1	Rim
2	120-0248-03	2	Adapter-Brake
3	120-0235	1	LH Brake ASM
4	114-8864	2	Drum-Brake
5	115-0199-03	2	Spacer-Wheel
6	3253-21	8	Washer-Lock
7	283-62	2	Pin-Clevis
8	242-50	10	Nut-Lug

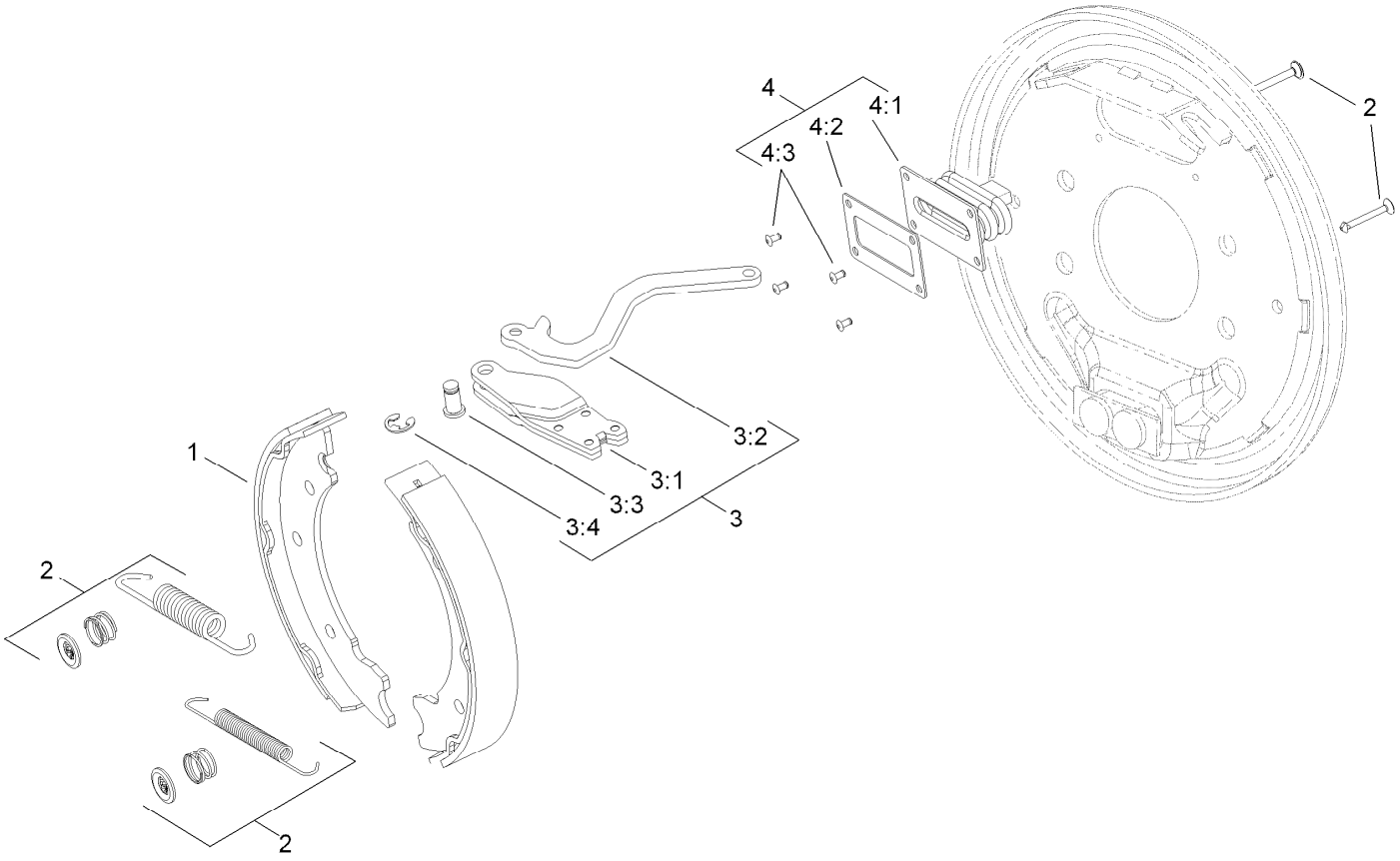
Ref.	Part Number	Qty.	Description
9	120-0233	1	RH Brake ASM
10	115-0132	2	Bracket-Spring, Return
11	87-4020	2	Spring-Extension
12	119-1352-03	1	Bracket-Brake Cable, RH
13	325-2	4	Screw-HH
14	119-1449-03	1	Bracket-Brake Cable, LH
15	323-5	4	Screw-HH
16	323-6	8	Screw-HH
17	3334-945	1	Tie-Cable
18	3290-378	1	Tie-Cable
19	250-5	1	Tie-Cable



Right Hand Brake Assembly No. 120-0233

Ref.	*Part Number*	*Qty.*	*Description*
1	108-6981	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 ●

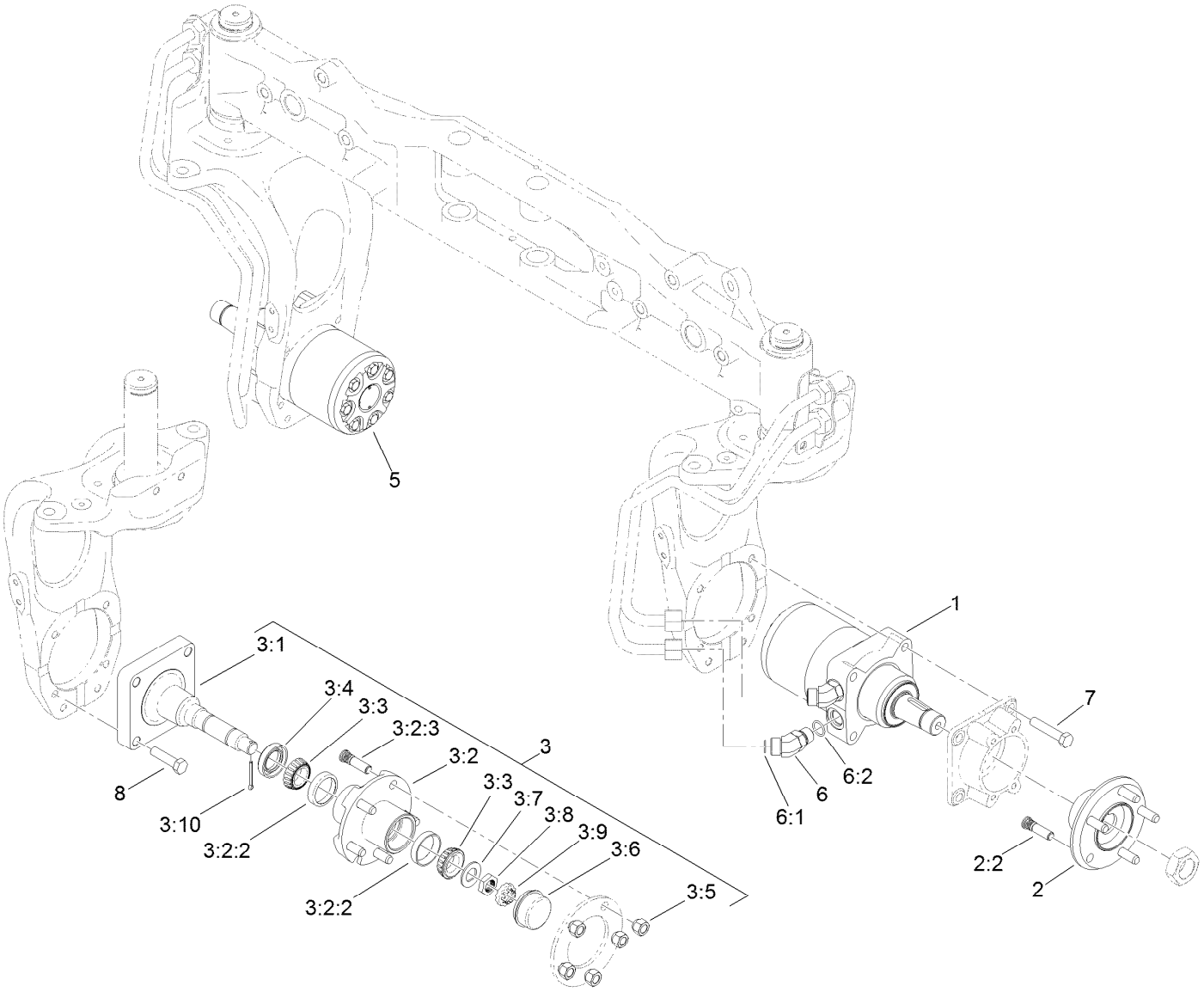
● Not serviced separately



Left Hand Brake Assembly No. 120-0235

Ref.	*Part Number*	*Qty.*	*Description*
1	108-6981	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 ●

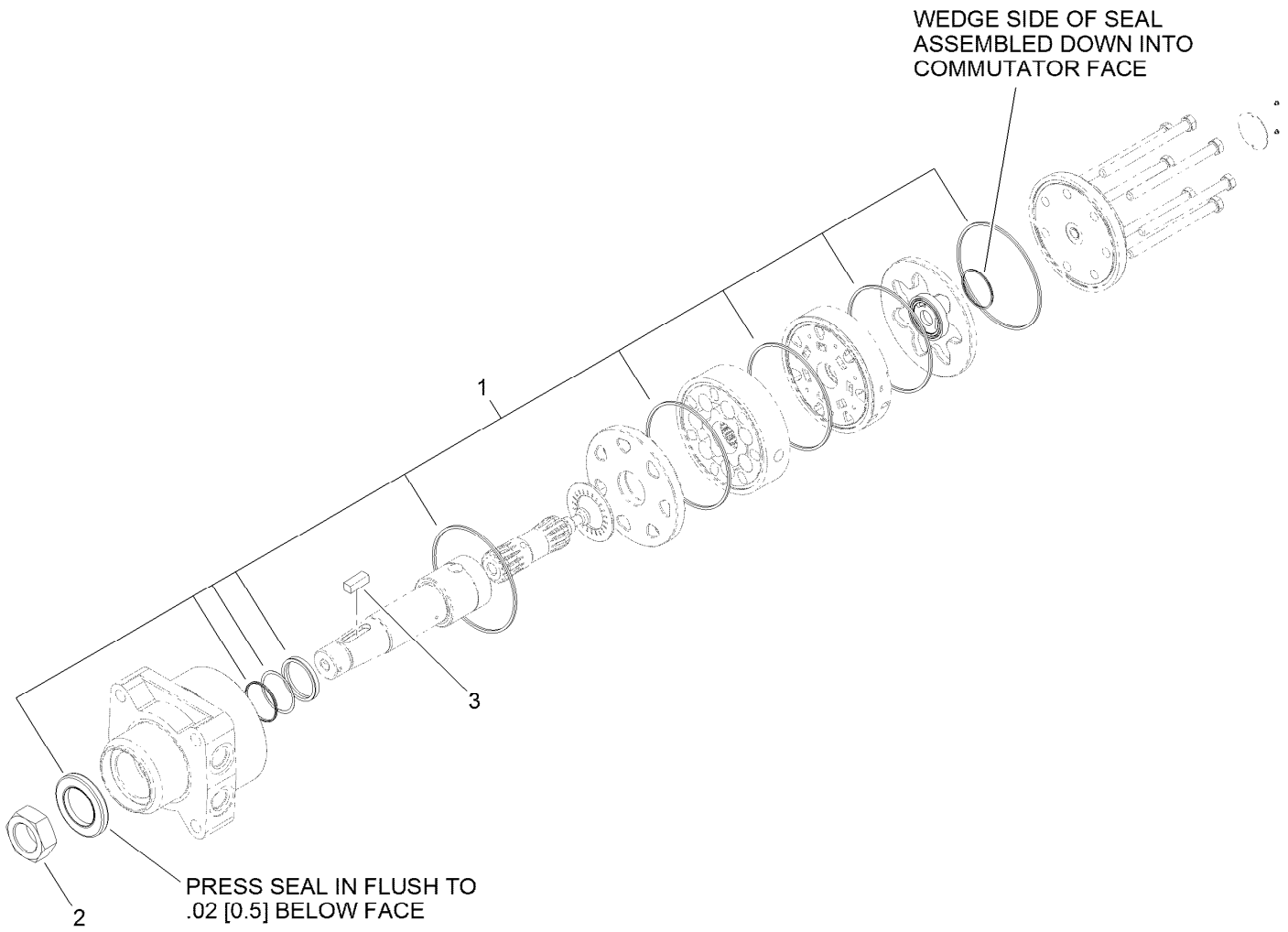
● Not serviced separately



Wheel Motor and Spindle Assembly

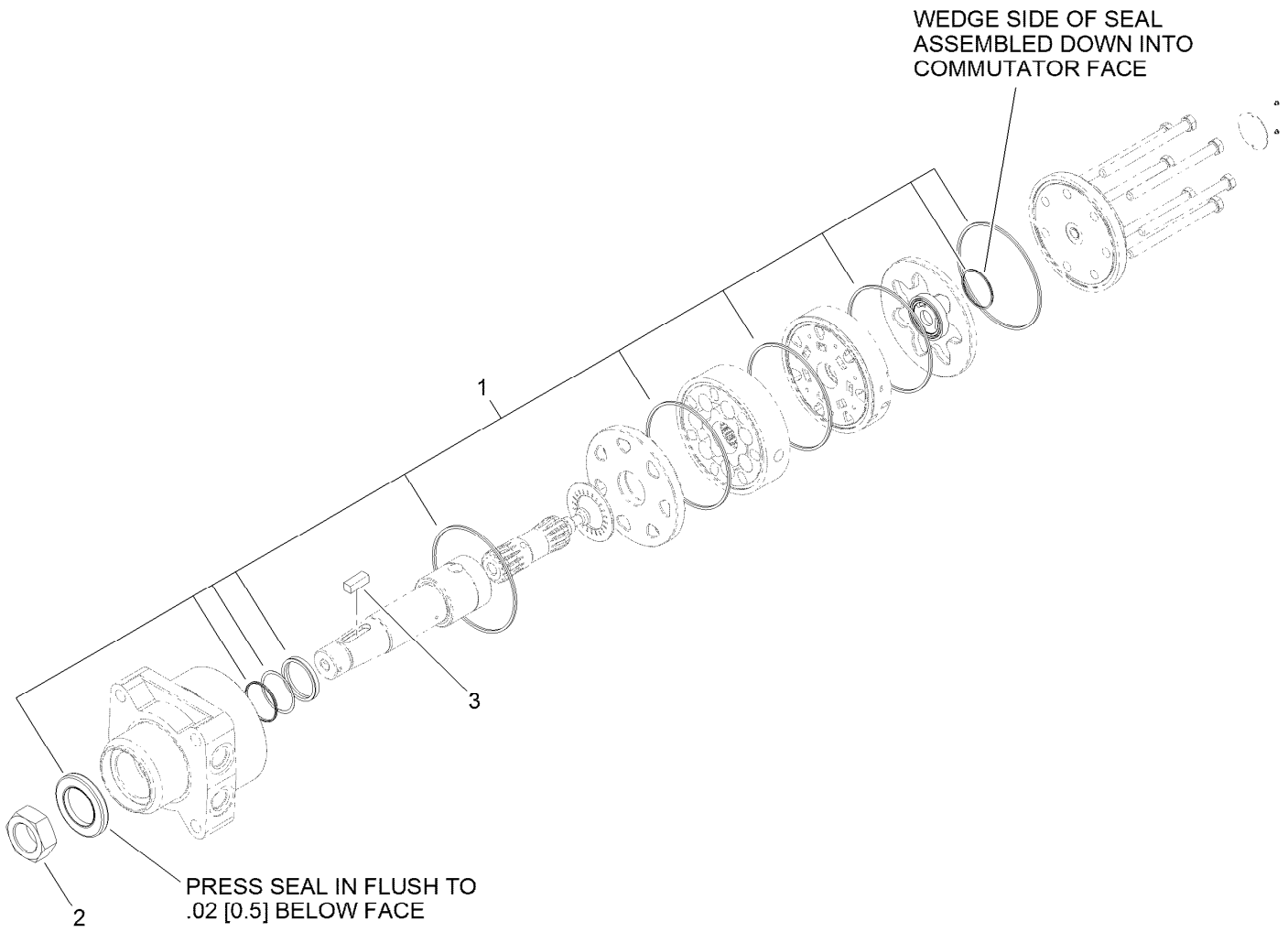
Ref.	Part Number	Qty.	Description
1	120-6718	1	HYD Motor ASM (335 CCW)
2	121-5492	2	Wheel Hub ASM
2:2	114-3918	5	Stud-Wheel
3	117-3237	2	Hub And Spindle ASM
3:1	112-7173	1	Spindle
3:2	117-8963	1	Hub ASM
3:2:2	254-72	2	Bearing-Cup, Tapered
3:2:3	114-3918	5	Stud-Wheel
3:3	254-92	2	Cone-Bearing, Outer
3:4	112-1690	1	Seal-Oil
3:5	242-50	5	Nut-Lug

Ref.	Part Number	Qty.	Description
3:6	241-119	1	Cap-Dust
3:7	117-8259	1	Washer-Spindle
3:8	117-8260	1	Nut
3:9	93-0307	1	Nut-Lock, Retainer
3:10	3272-18	1	Pin-Cotter
5	120-6719	1	HYD Motor ASM (335 CW)
6	340-14	4	Fitting-HYD, 45 DEG
6:1	237-65	1	O-Ring
6:2	237-80	1	O-Ring
7	325-34	8	Screw-HH
8	60-9870	8	Screw-HH



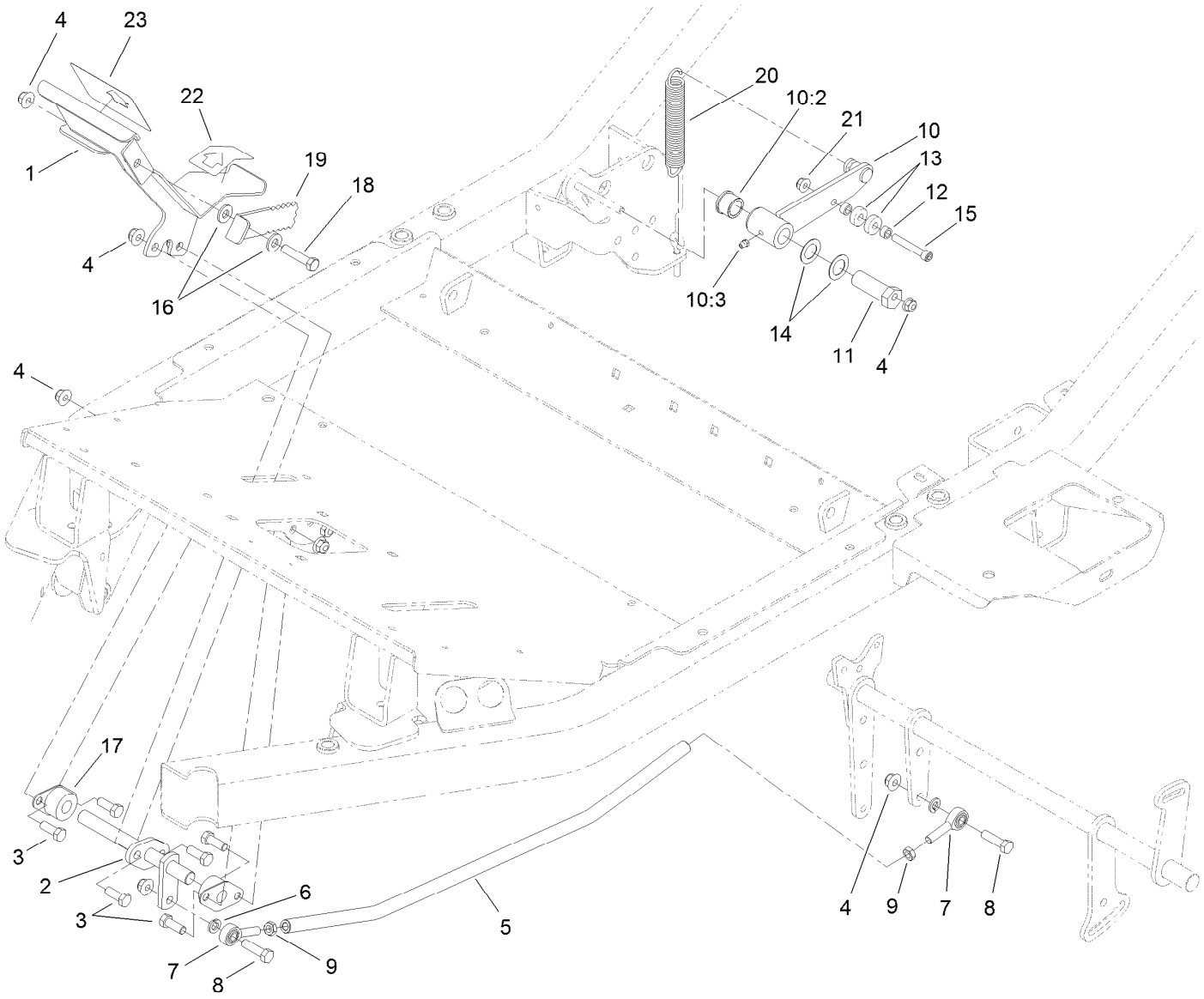
Hydraulic Motor Assembly No. 120-6718 (CCW)

Ref.	*Part Number*	*Qty.*	*Description*
1	121-5397	1	Seal Kit
2	117-3290	1	Nut-Hex
3	117-5198	1	Key-Square



Hydraulic Motor Assembly No. 120-6719 (CW)

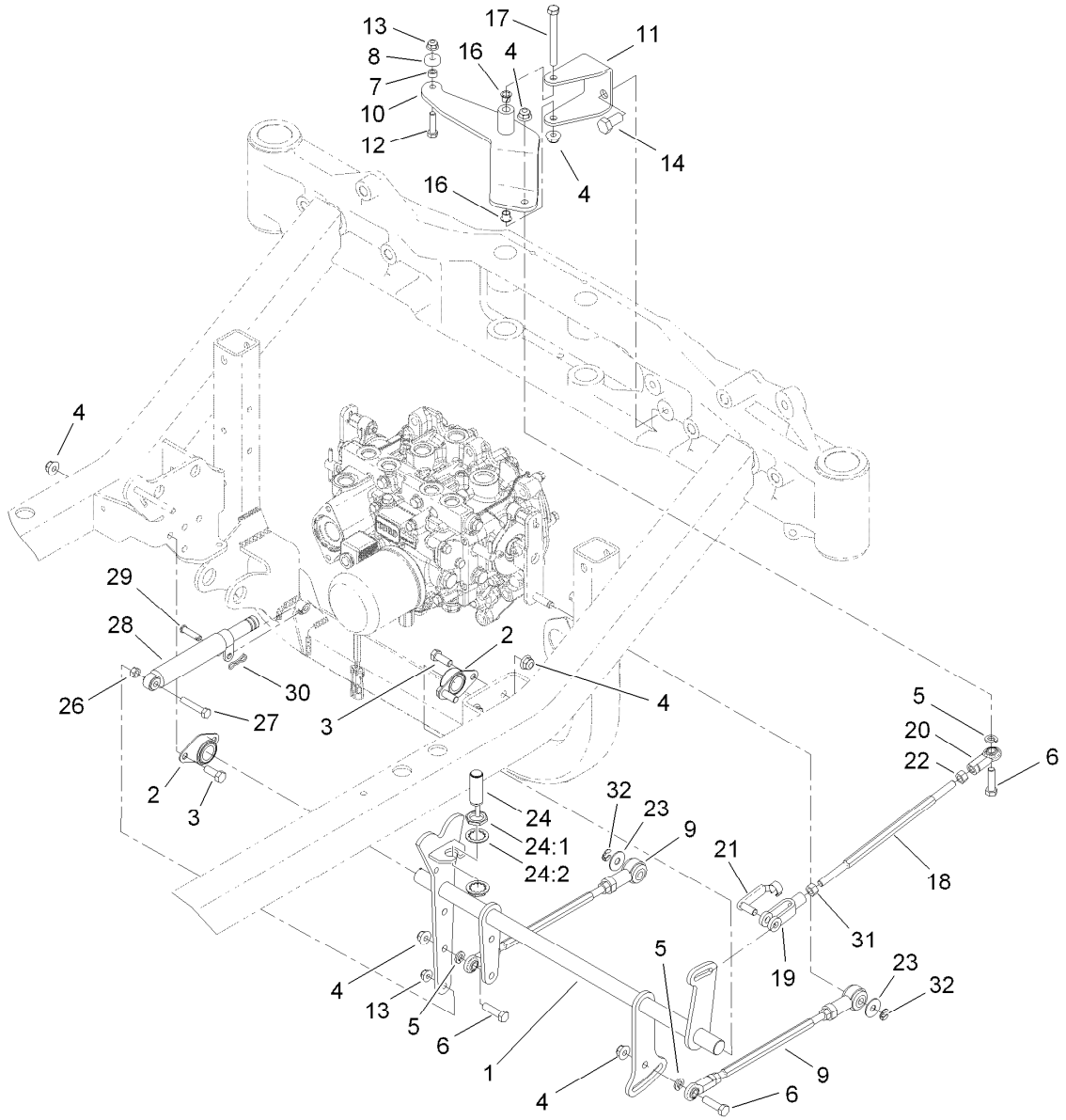
Ref.	*Part Number*	*Qty.*	*Description*
1	121-5397	1	Seal Kit
2	117-3290	1	Nut-Hex
3	117-5198	1	Key-Square



Neutral and Traction Pedal Assembly

Ref.	Part Number	Qty.	Description
1	117-3070-01	1	Pedal
2	117-3073	1	Pivot-Pedal
3	323-6	6	Screw-HH
4	104-8301	10	Nut-Flange, NI
5	115-0072-03	1	Rod-Traction
6	3253-21	2	Washer-Lock
7	2411-36	2	Bearing-End, Rod
8	323-29	2	Screw-HH
9	3220-3	2	Nut-HJ
10	115-0148	1	Arm ASM
10:2	256-113	2	Bushing-Flange
10:3	302-5	1	Fitting-Grease
11	117-9046	1	Stud-Eccentric

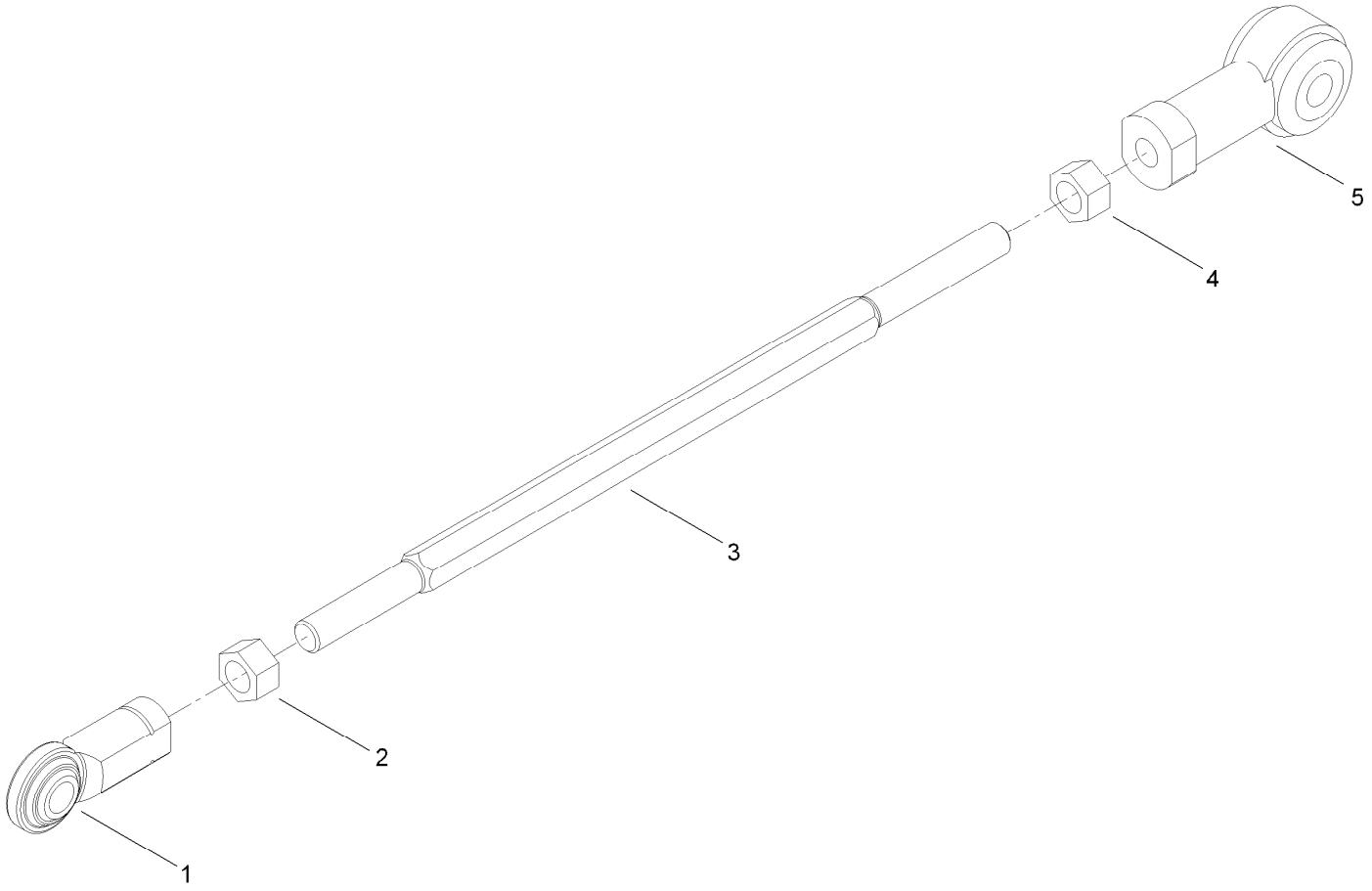
Ref.	Part Number	Qty.	Description
12	85-9120	2	Spacer-Pivot, Tilt
13	251-307	2	Bearing-Ball
14	3-6498	2	Washer-Thrust
15	3274-86	1	Screw-HSH
16	66-2920	2	Washer-Friction
17	256-236	2	Bearing-Mount, Flange
18	323-9	1	Screw-HH
19	117-3298	1	Lever-Mow Stop
20	116506	1	Spring-Extension
21	104-8300	1	Nut-Flange, NI
22	94-3308	1	Pad-Pedal, Traction
23	94-3307	1	Pad-Pedal, Traction



Traction Pump Linkage Assembly

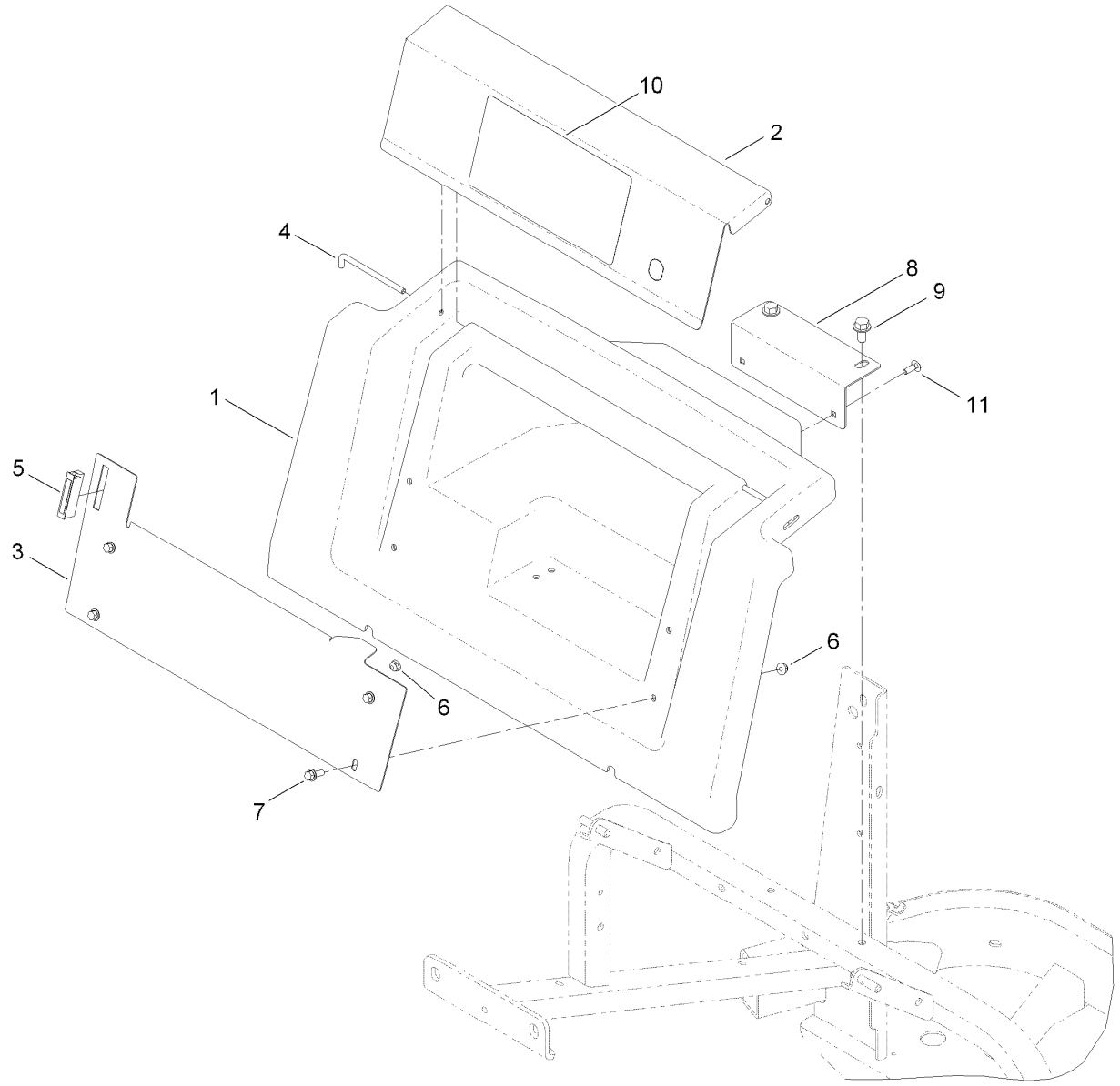
Ref.	*Part Number*	*Qty.*	*Description*
1	115-0080-03	1	Shaft-Control, Speed
2	117-3255	2	Bearing-Side Flange
3	323-6	4	Screw-HH
4	104-8301	8	Nut-Flange, NI
5	3253-21	3	Washer-Lock
6	323-29	3	Screw-HH
7	85-9120	1	Spacer-Pivot, Tilt
8	251-307	1	Bearing-Ball
9	112-5099	2	Link ASM
10	115-0084-03	1	Arm
11	119-1351-03	1	Channel-Pivot
12	322-6	1	Screw-HH
13	104-8300	2	Nut-Flange, NI
14	325-4	2	Screw-HH
16	52-2891	2	Bushing-Flanged, Nylon
17	323-15	1	Screw-HH

Ref.	*Part Number*	*Qty.*	*Description*
18	105-7239	1	Rod-Threaded
19	1-633131	1	Yoke-Linkage, Brake
20	103-1167	1	Joint-Ball End, LH
21	103-2399	1	Pin-Spring, Clevis
22	3219-20	1	Nut-Hex, LH
23	52-2860	2	Washer
24	115-5300	1	Proximity Switch ASM
24:1	117-3207	2	Nut-Hex
24:2	117-3208	2	Washer-Lock, Internal Tooth
26	3217-6	1	Nut-Hex
27	322-9	1	Screw-HH
28	76-8870	1	Damper-Lever
29	283-6	1	Pin-Clevis
30	119-1415	1	Pin-Cotter, Locking
31	3219-3	1	Nut-Hex
32	32151-47	2	Ring-Retaining



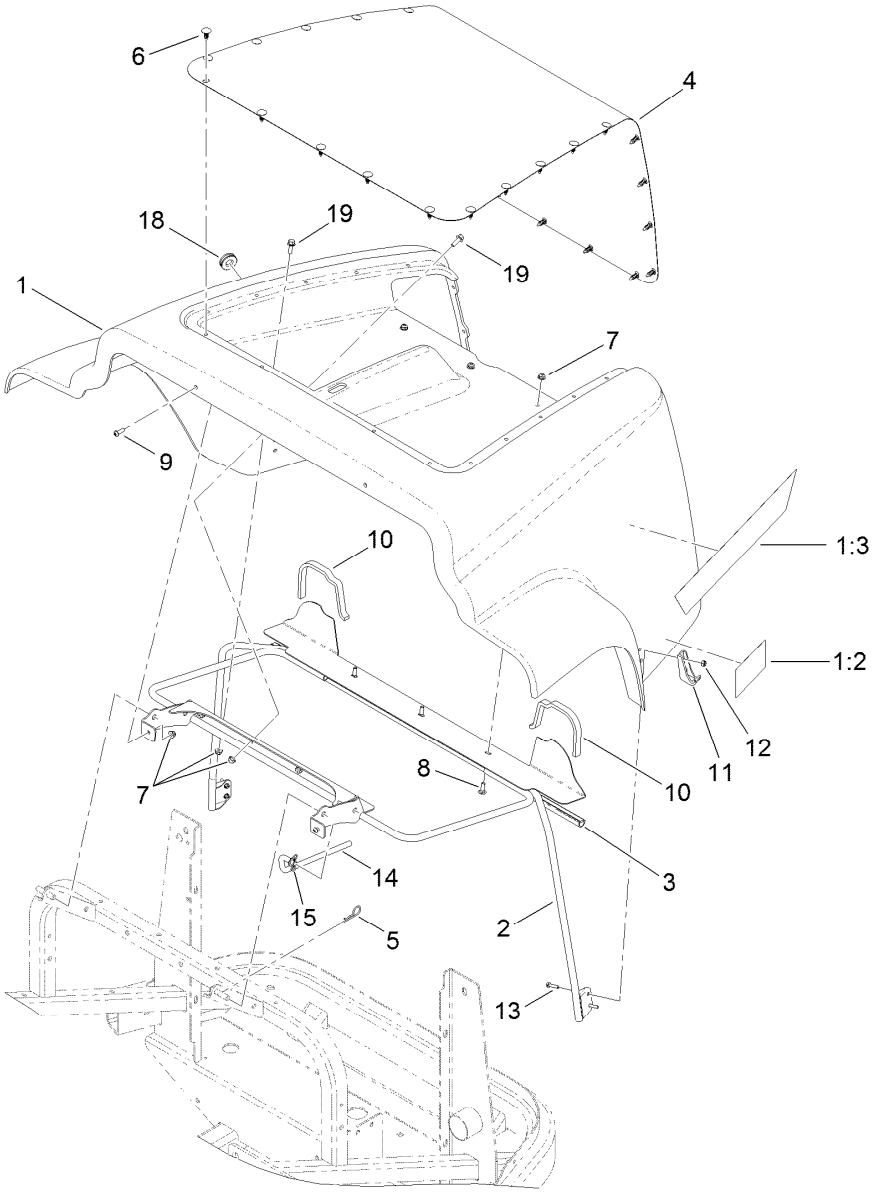
Link Assembly No. 112-5099

Ref.	*Part Number*	*Qty.*	*Description*
1	103-1167	1	Joint-Ball End, LH
2	3219-20	1	Nut-Hex, LH
3	105-7239	1	Rod-Threaded
4	3219-3	1	Nut-Hex
5	105-7199	1	Rod End-Isolated



Storage Compartment Assembly

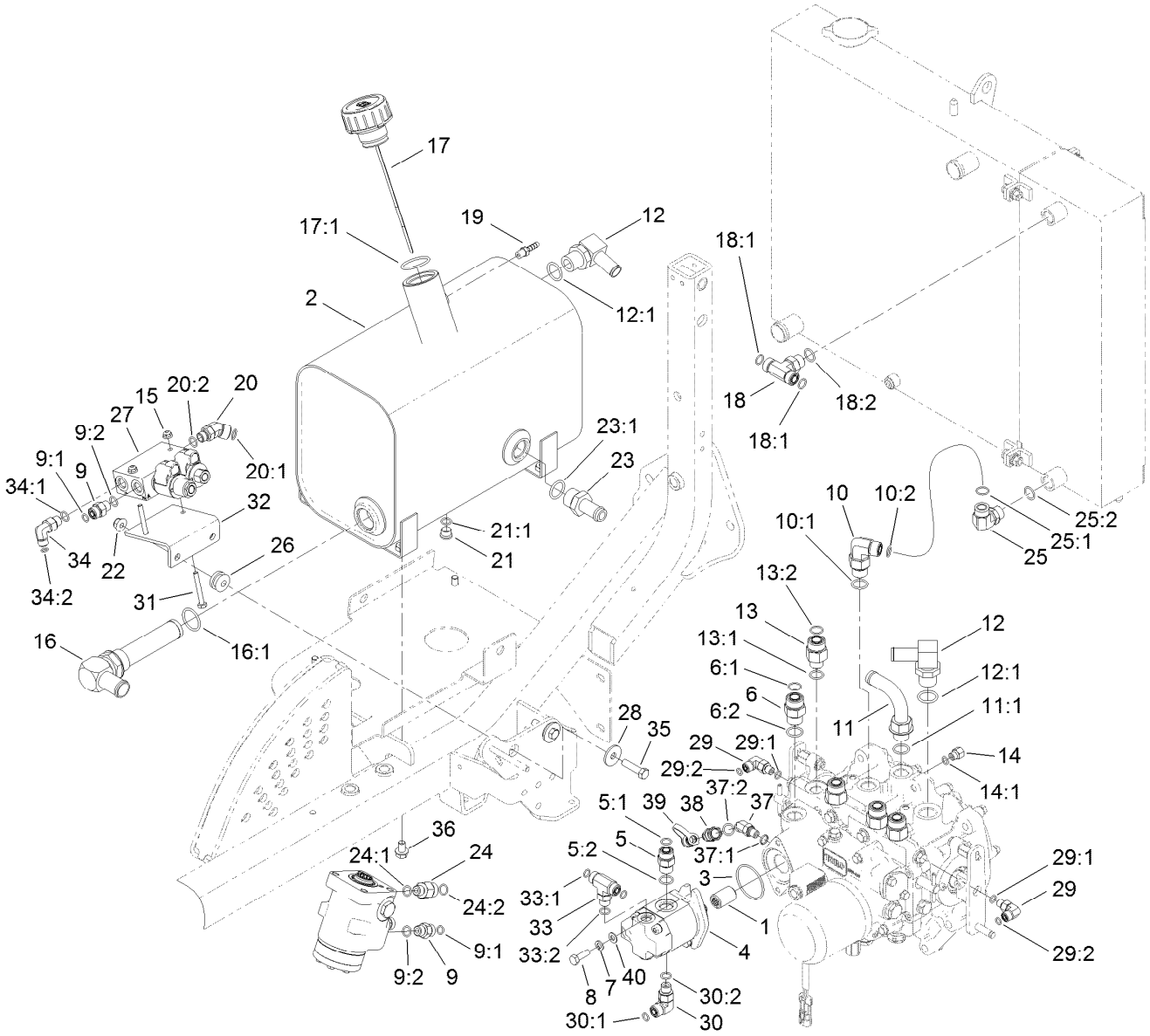
Ref.	*Part Number*	*Qty.*	*Description*
1	120-0222	1	Housing ASM
2	117-3185-03	1	Cover-Storage
3	117-3186-03	1	Panel-Lower
4	117-3189	2	Rod-Hinge
5	58-4250	1	Catch-Magnetic
6	104-7201	6	Nut-HF
7	3234-4	4	Screw-HHF
8	117-3187-03	1	Support-Housing
9	110-9380	2	Screw-HWH
10	120-0259	1	Decal-Service Instructions
11	3229-1	2	Bolt-CARR



Hood Assembly

Ref.	Part Number	Qty.	Description
1	121-5360	1	Hood ASM
1:2	117-3270	2	Decal-Danger
1:3	117-3279	2	Decal-Hood
2	120-6743-03	1	Hood Mount ASM
3	115-0423	1	Seal-Bulb
4	120-6742-03	1	Screen-Hood
5	9335054	1	Pin-Hair
6	117-2382	27	Plug-Plastic
7	104-7201	11	Nut-HF
8	3229-1	3	Bolt-CARR

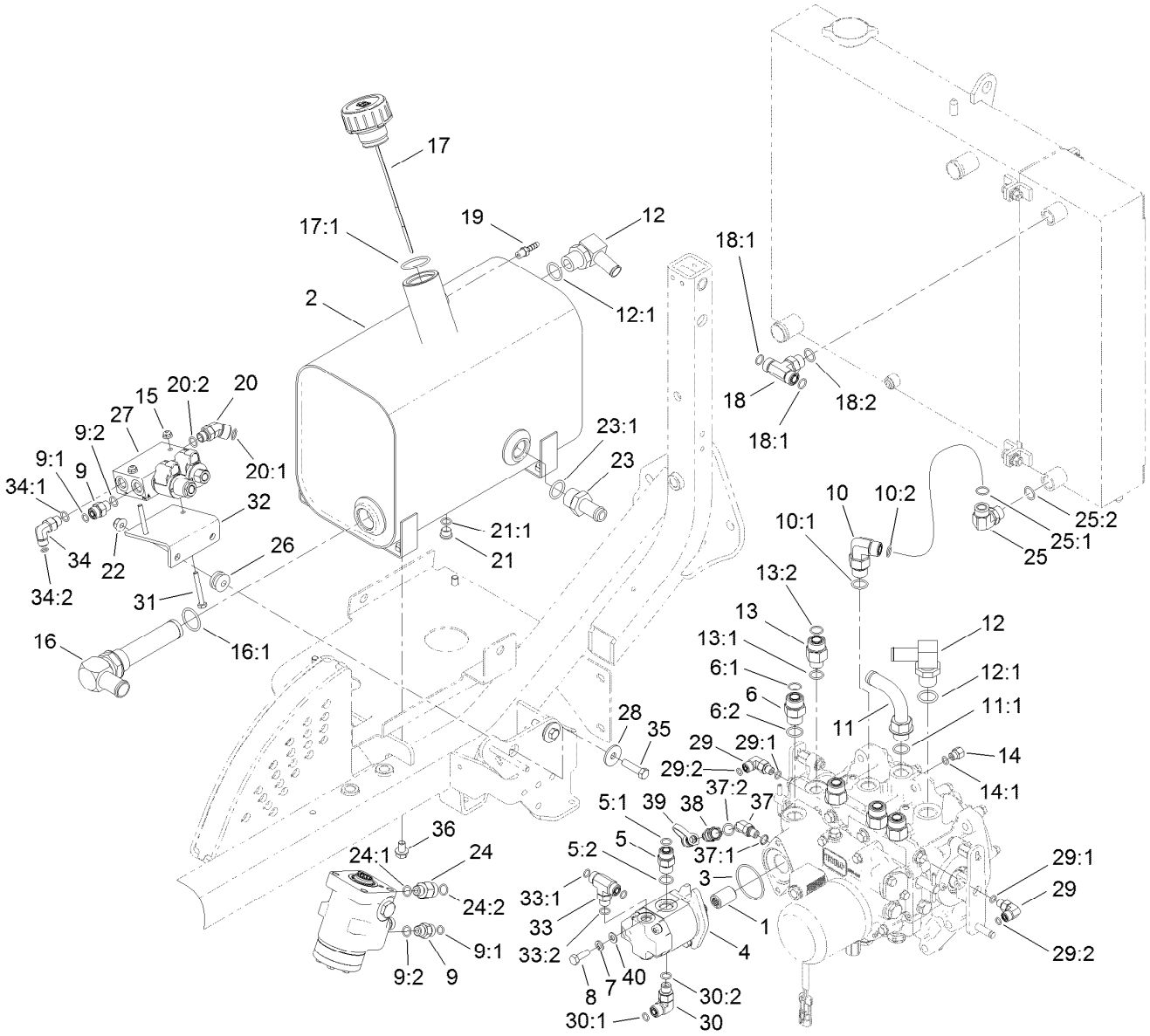
Ref.	Part Number	Qty.	Description
9	3274-69	2	Screw-HSBH
10	110-8288	2	Seal-Foam
11	103-2897	2	Latch-Catch
12	3296-2	4	Nut-Lock, NI
13	32105-13	4	Screw-HWH
14	117-3171	1	Rod-Prop
15	119-1415	1	Pin-Cotter, Locking
18	104-1453	1	Grommet
19	3234-4	6	Screw-HHF



Deck Lift Valve and Hydraulic Fitting Assembly

Ref.	Part Number	Qty.	Description
1	108-9920	1	Coupler-Spline
2	117-3372	1	Tank-Hydraulic, Metal
3	108-9919	1	O-Ring
4	115-0375	1	Gear Pump ASM
5	340-4	1	Fitting-HYD, Straight
5:1	237-30	1	O-Ring
5:2	237-79	1	O-Ring
6	340-7	1	Adapter
6:1	237-65	1	O-Ring
6:2	237-80	1	O-Ring
7	3253-4	2	Washer-Lock
8	33114-025	2	Screw-HH
9	340-2	5	Fitting-HYD, Straight
9:1	237-22	1	O-Ring
9:2	237-42	1	O-Ring
10	340-105	1	Fitting-HYD, 90 DEG
10:1	237-80	1	O-Ring
10:2	237-30	1	O-Ring
11	110-5522	1	Fitting-Elbow, 90
11:1	237-80	1	O-Ring

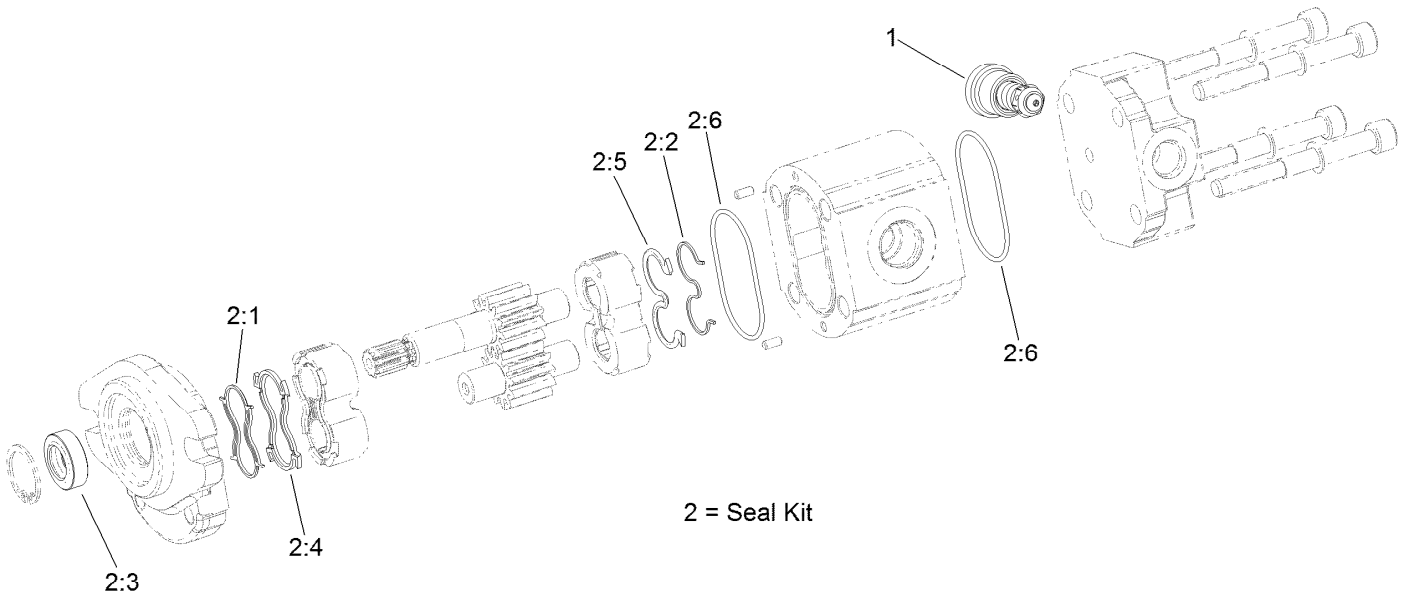
Ref.	Part Number	Qty.	Description
12	353-987	2	Fitting-HYD, 90 DEG (Barbed)
12:1	237-81	1	O-Ring
13	340-155	4	Fitting-HYD, Straight
13:1	237-79	1	O-Ring
13:2	237-151	1	O-Ring
14	110-5536	1	Fitting-HYD, Adapter
14:1	237-78	1	O-Ring
15	104-7201	2	Nut-HF
16	105-0204	1	Strainer Fitting ASM
16:1	237-146	1	O-Ring
17	117-3389	1	Cap-Tank, Hydraulic
17:1	237-101	1	O-Ring
18	340-157	1	Fitting-HYD, Tee
18:1	237-79	1	O-Ring
18:2	237-30	2	O-Ring
19	94-7220	1	Fitting-Barb, Hose
20	340-96	1	Adapter
20:1	237-30	1	O-Ring
20:2	237-42	1	O-Ring
21	353-989	1	Plug-Hex, Hollow



Deck Lift Valve and Hydraulic Fitting Assembly (continued)

Ref.	Part Number	Qty.	Description
21:1	237-42	1	O-Ring
22	104-8301	2	Nut-Flange, NI
23	354-73	1	Fitting-Straight
23:1	237-81	1	O-Ring
24	340-5	1	Fitting-Straight
24:1	237-42	1	O-Ring
24:2	237-30	1	O-Ring
25	340-98	1	Fitting-HYD, 90 DEG
25:1	237-79	1	O-Ring
25:2	237-30	1	O-Ring
26	63-9750	2	Mount
27	115-0356	1	Deck Lift Valve ASM
28	63-8410	2	Washer
29	340-132	2	Fitting-HYD, 90 DEG
29:1	237-78	1	O-Ring
29:2	237-21	1	O-Ring
30	340-77	1	Fitting-HYD, 90 DEG
30:1	237-22	1	O-Ring

Ref.	Part Number	Qty.	Description
30:2	237-42	1	O-Ring
31	321-11	2	Screw-HH
32	115-0355-03	1	Plate-Mount, Valve
33	340-94	1	Adapter
33:1	237-22	2	O-Ring
33:2	237-42	1	O-Ring
34	340-82	1	Adapter ASM
34:1	237-42	1	O-Ring
34:2	237-21	1	O-Ring
35	323-8	2	Screw-HH
36	32144-15	4	Screw-HHFTF
37	340-103	1	Fitting-HYD, 45 DEG
37:1	237-78	1	O-Ring
37:2	237-21	1	O-Ring
38	115-8886	1	Nipple-Test
39	354-79	1	Cap-Dust
40	3256-23	2	Washer-Flat

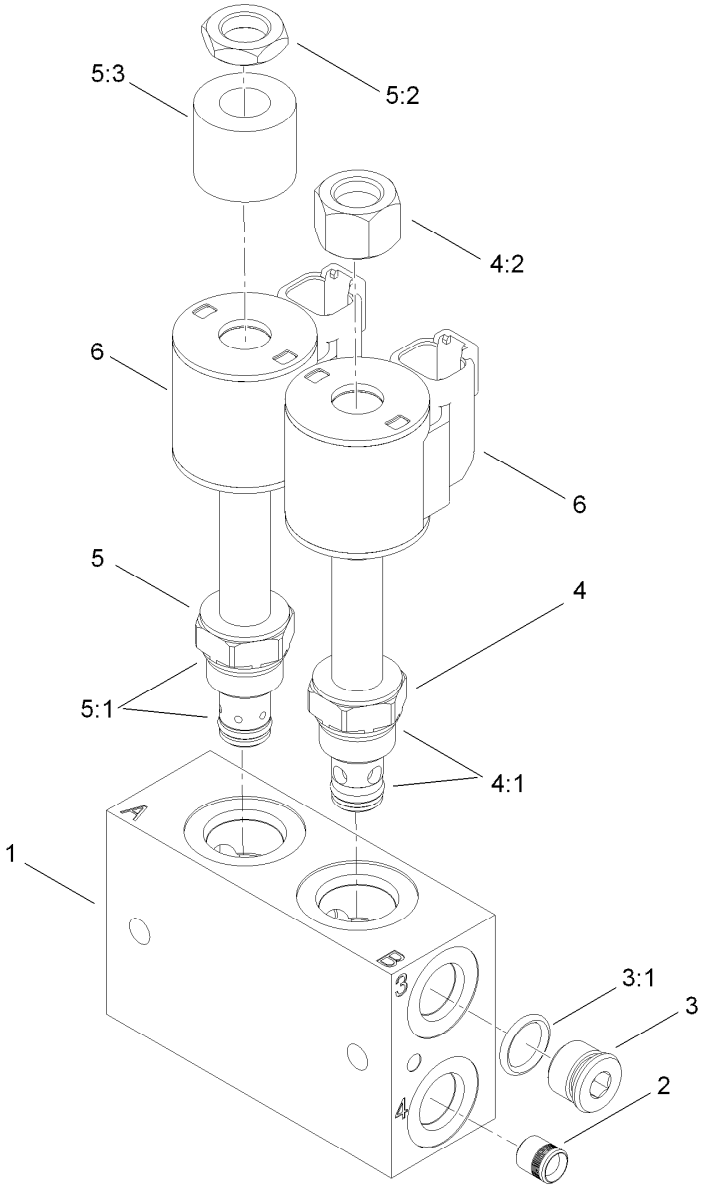


2 = Seal Kit

Hydraulic Gear Pump Assembly No. 115-0375

Ref.	*Part Number*	*Qty.*	*Description*
1	115-0376	1	Valve-Relief, 125 Bar
2	112-0199	1	Seal Kit
2:1		1	Seal-Anti Extrusion ●
2:2		1	Seal-Anti Extrusion ●
2:3		1	Seal-Shaft ●
2:4		1	Seal-Upper ●
2:5		1	Seal ●
2:6		2	O-Ring ●

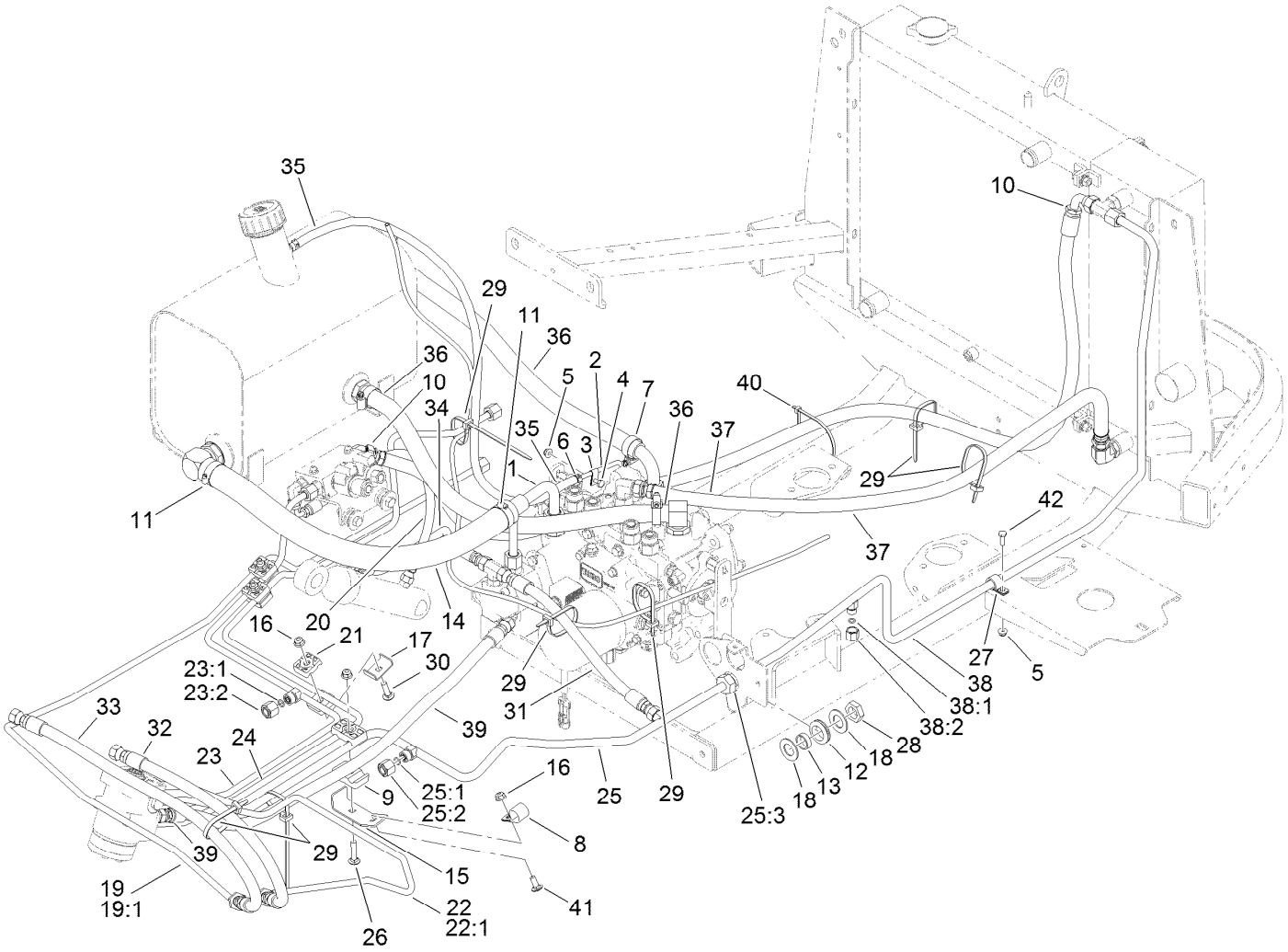
● Not serviced separately



Deck Lift Valve Assembly No. 115-0356

Ref.	*Part Number*	*Qty.*	*Description*
1		1	Block-Manifold ●
2		1	Plug ●
3	353-512	1	Plug
3:1	237-78	1	O-Ring
4	107-7517	1	Valve-Solenoid
4:1	105-9156	1	Seal Kit
4:2	107-7812	1	Nut-Solenoid
5	110-8898	1	Valve-Solenoid
5:1	107-7527	1	Seal Kit
5:2	110-2634	1	Nut-Coil
5:3	110-8909	1	Spacer-Coil
6	119-8036	1	E Coil-12 Vdc

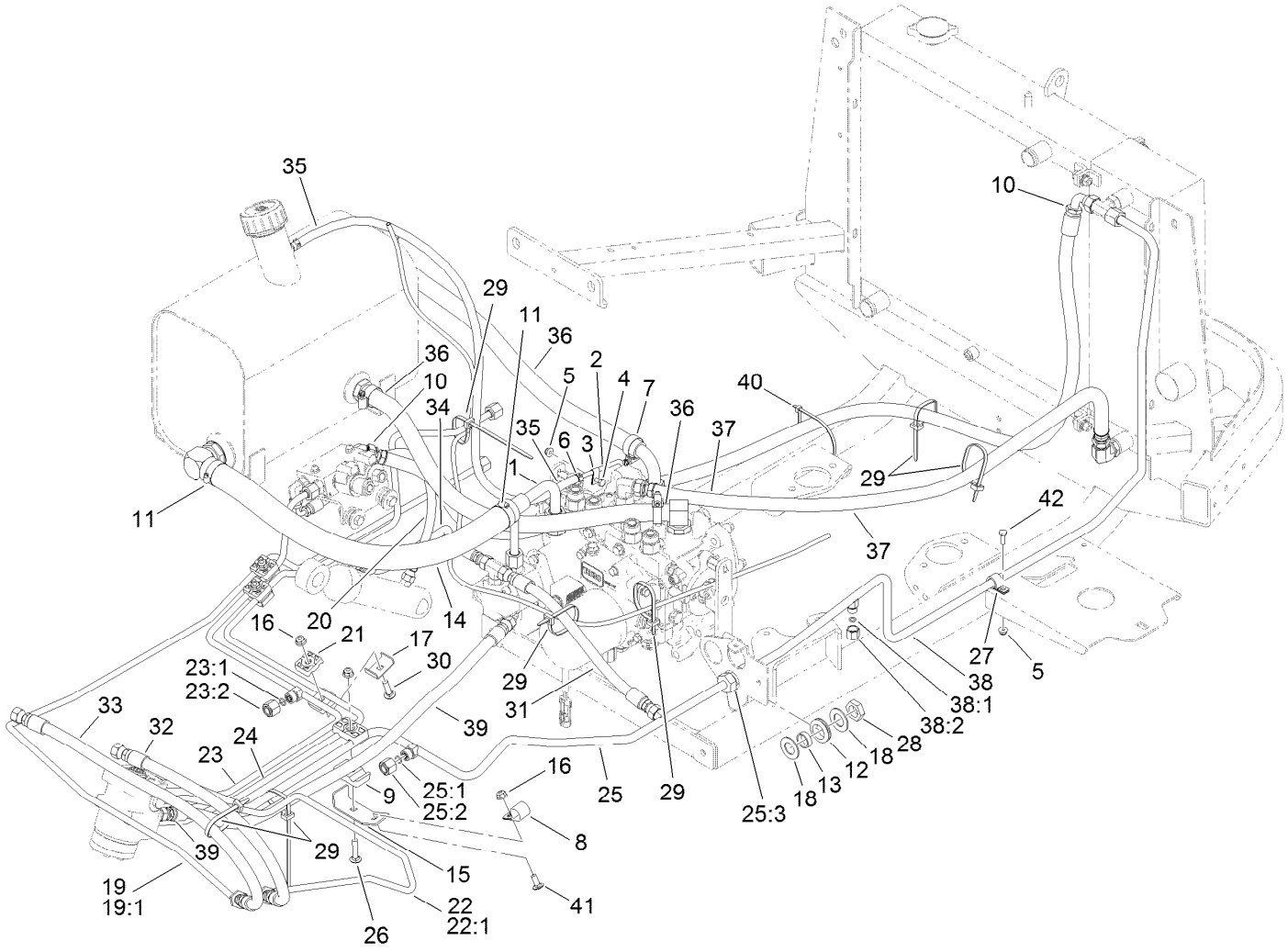
● Not serviced separately



Hydraulic Tube and Hose Assembly

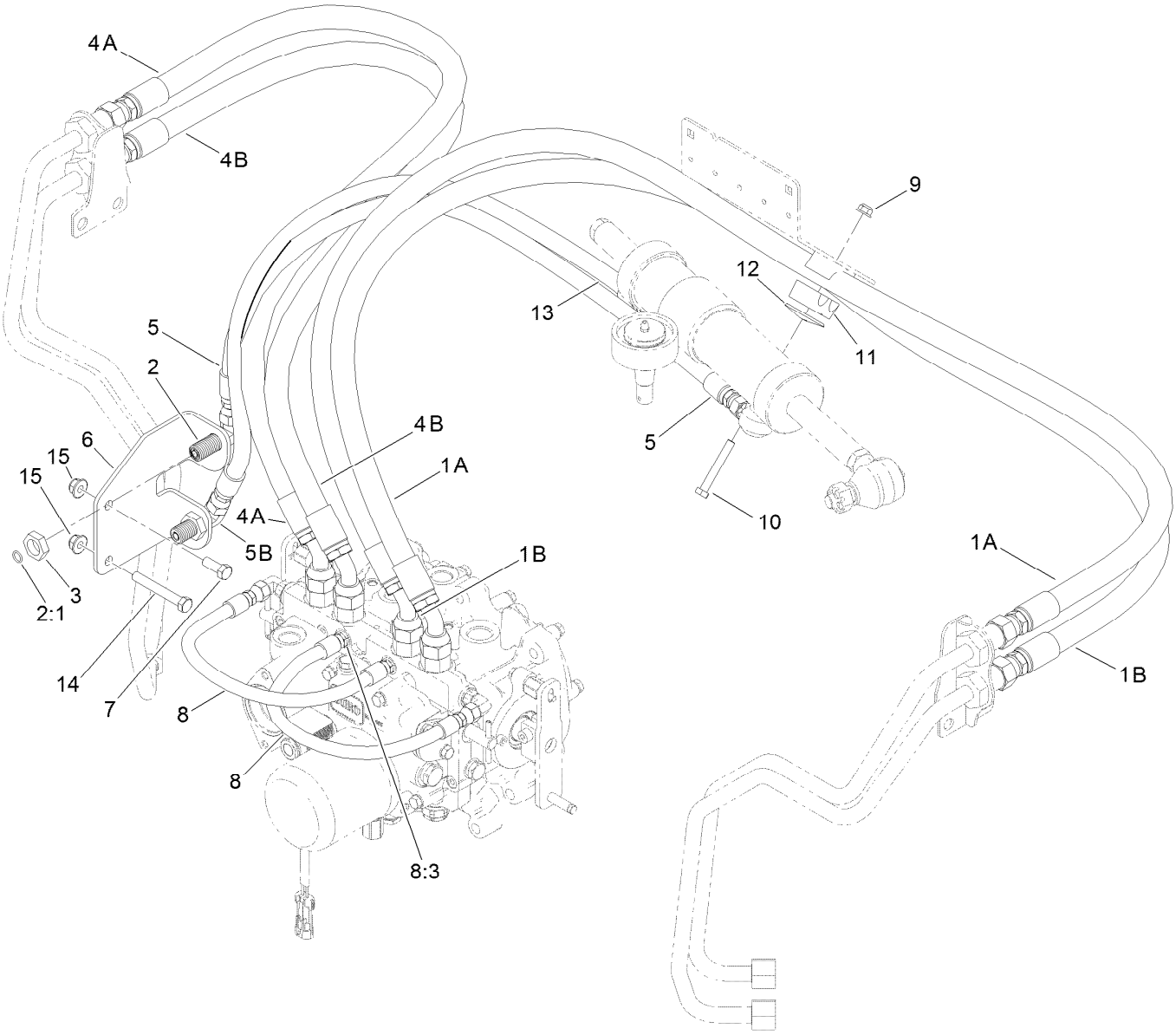
Ref.	Part Number	Qty.	Description
1	115-0184	1	Suction Tube ASM
2	110-5537	1	Tube
3	2412-72	1	Clip-Closed, Insulated
4	321-4	1	Screw-HH
5	104-7201	2	Nut-HF
6	2412-98	2	Clamp-Hose
7	2412-129	4	Clamp-Hose
8	2412-4	1	Clamp
9	56-7972	2	Clamp-Tube
10	121-5358	1	Hose ASM
11	2412-34	2	Clamp-Hose
12	240-5	1	Grommet
13	69-8960	1	Spacer
14	117-3200	1	Hose-Suction
15	120-0245	1	Bracket-Support
16	104-8300	5	Nut-Flange, NI
17	119-1418	3	Plate-Clamp
18	69-8930	2	Washer
19	117-3117	1	Front Cylinder Steer Manifold Tube ASM
19:1	237-22	1	O-Ring

Ref.	Part Number	Qty.	Description
20	112-9185	1	Hose ASM
21	56-7973	6	Clamp-Tube
22	117-3110	1	Front Steering Tube ASM
22:1	237-22	1	O-Ring
23	117-3111	1	Steering Lift Tube ASM
23:1	237-22	1	O-Ring
23:2	340-117	1	Cap
24	117-3112	1	Tube-Steering, Manifold
25	117-3113	1	Steering Drain Tube ASM
25:1	237-22	2	O-Ring
25:2	340-117	1	Cap
25:3	237-30	1	O-Ring
26	3230-4	1	Screw-CARR
27	2412-87	1	Clamp-Cable
28	340-127	1	Nut-Bulkhead
29	3290-378	2	Tie-Cable
30	3230-3	3	Screw-CARR
31	117-3122	1	Hose ASM
32	119-1433	1	Hose ASM
33	100-5629	1	Hose ASM
34	117-3123	1	Hose-HYD



Hydraulic Tube and Hose Assembly (continued)

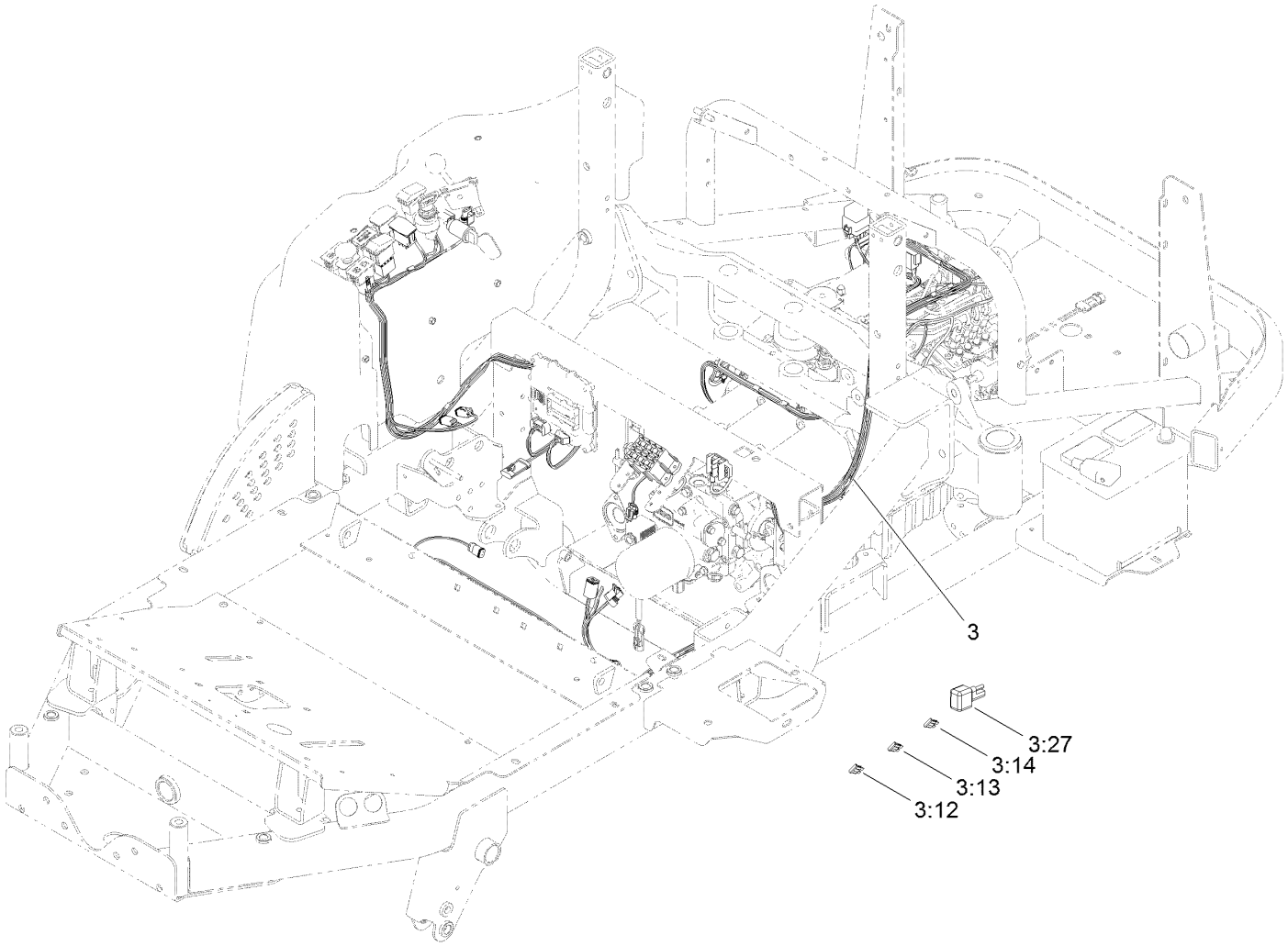
Ref.	Part Number	Qty.	Description
35	109-0275	1	Hose-Fuel
36	117-3121	2	Hose ASM
37	117-3128	1	Hose ASM
38	121-5359	1	Cooler Drain Tube ASM
38:1	237-21	1	O-Ring
38:2	117-3297	1	Fitting-Cap
39	119-8114	1	HYD Hose ASM
40	3334-945	5	Tie-Cable
41	3230-23	1	Screw-CARR
42	321-5	1	Screw-HH



2 Wheel Drive Hydraulic Hose Assembly

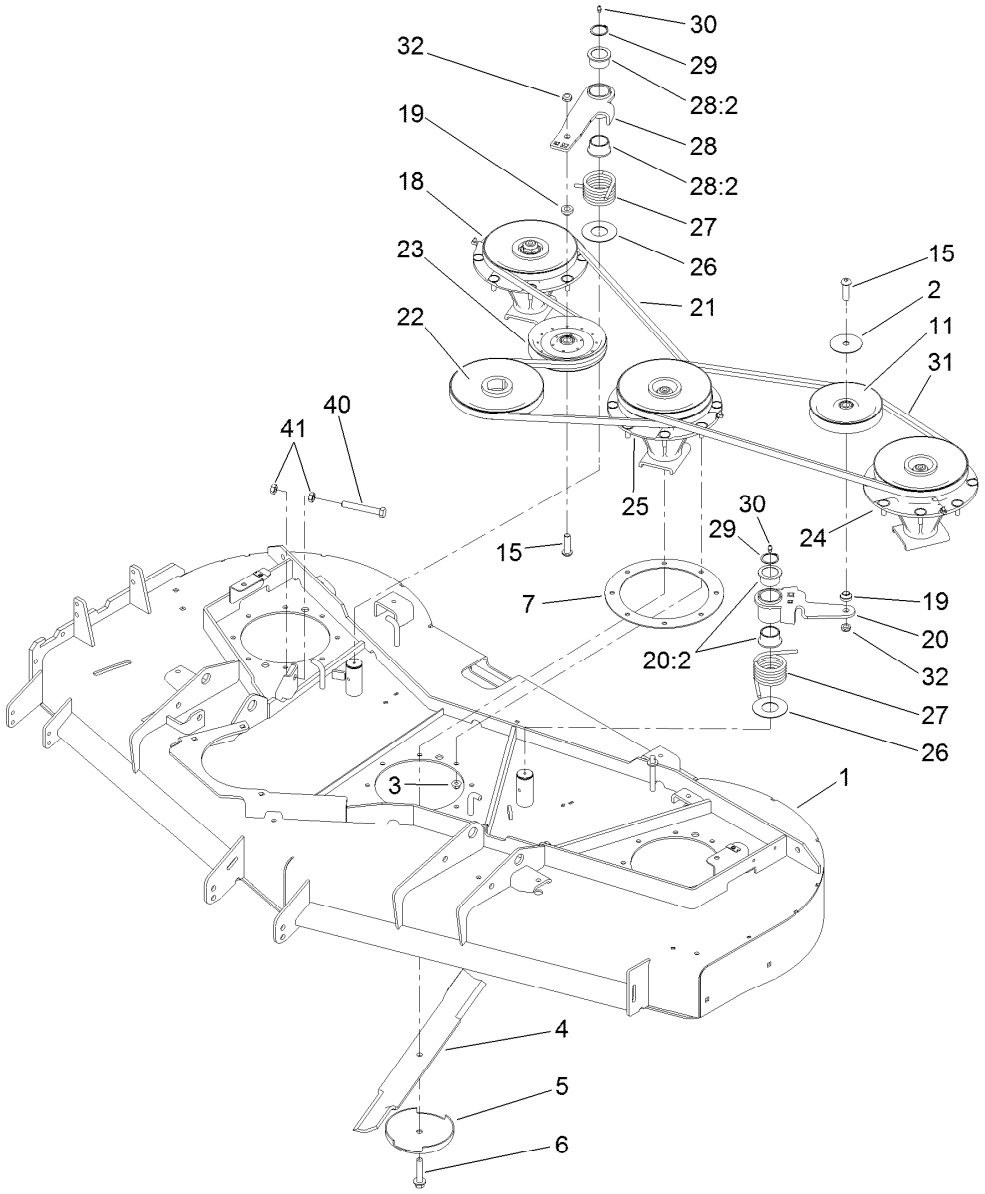
Ref.	*Part Number*	*Qty.*	*Description*
1	117-3249	2	Hose ASM
2	340-154	2	Union-Bulkhead
2:1	237-22	2	O-Ring
3	340-70	2	Nut-Lock
4	117-3130	2	Hose ASM
5	119-8114	1	HYD Hose ASM
6	117-3201-03	1	Support-Fitting
7	323-6	1	Screw-HH
8	115-0377	2	Hose ASM

Ref.	*Part Number*	*Qty.*	*Description*
8:3	237-78	1	O-Ring
9	104-8300	1	Nut-Flange, NI
10	322-11	1	Screw-HH
11	56-7974	2	Clamp-Tube
12	69-9761	1	Plate-Cover
13	119-1434	1	Hose ASM
14	323-13	1	Screw-HH
15	104-8301	2	Nut-Flange, NI



Main Wire Harness Assembly

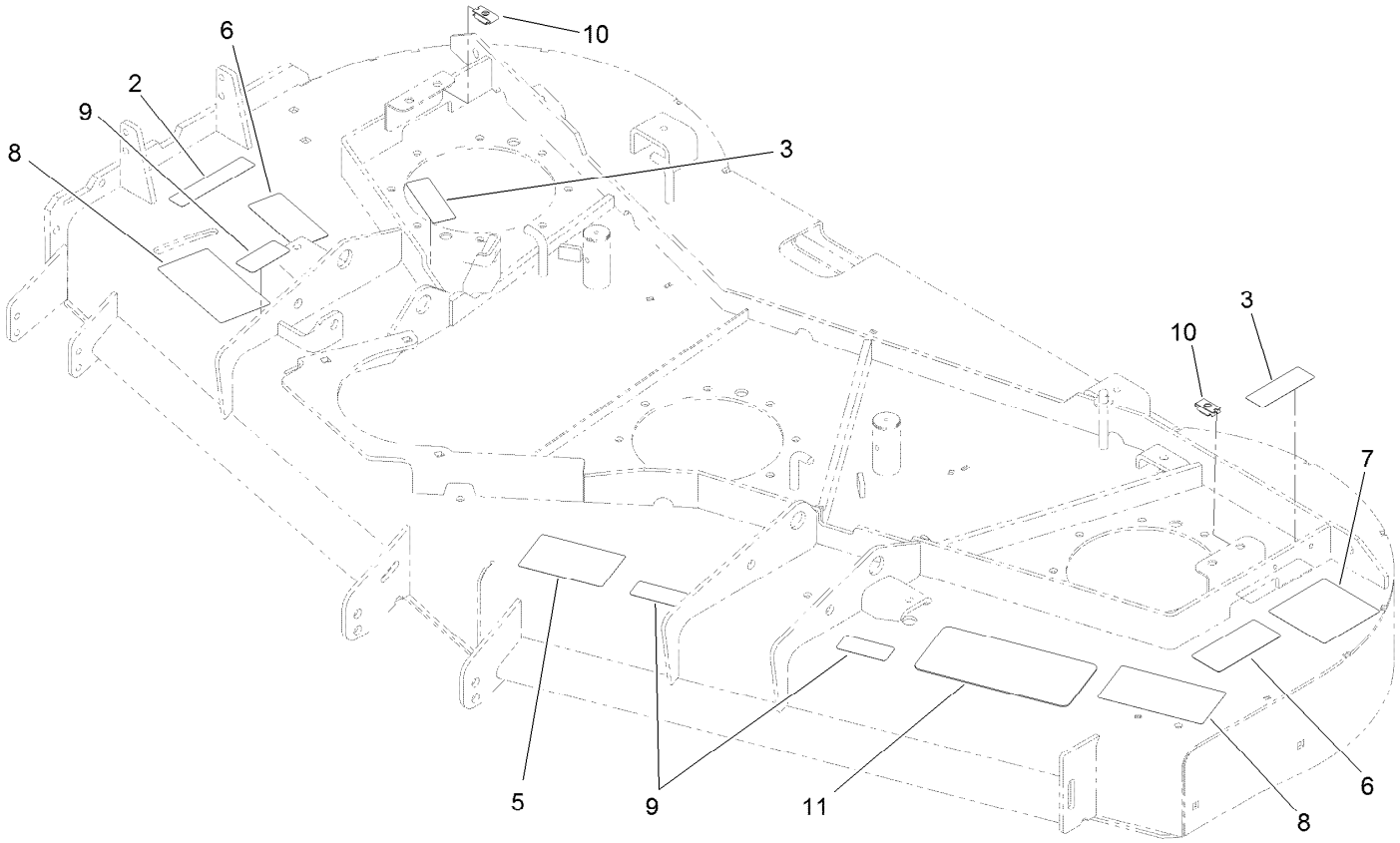
Ref.	*Part Number*	*Qty.*	*Description*
3	121-6566	1	Harness-Wire
3:12	94-6710	1	Fuse-2 Amp
3:13	218-578	5	Fuse-Blade, 10 Amp
3:14	109355	2	Fuse-Blade, 15 Amp
3:27	104-4022	1	Resistor-75 Ohm



Deck, Spindle, Blade, Belt and Pulley Assembly

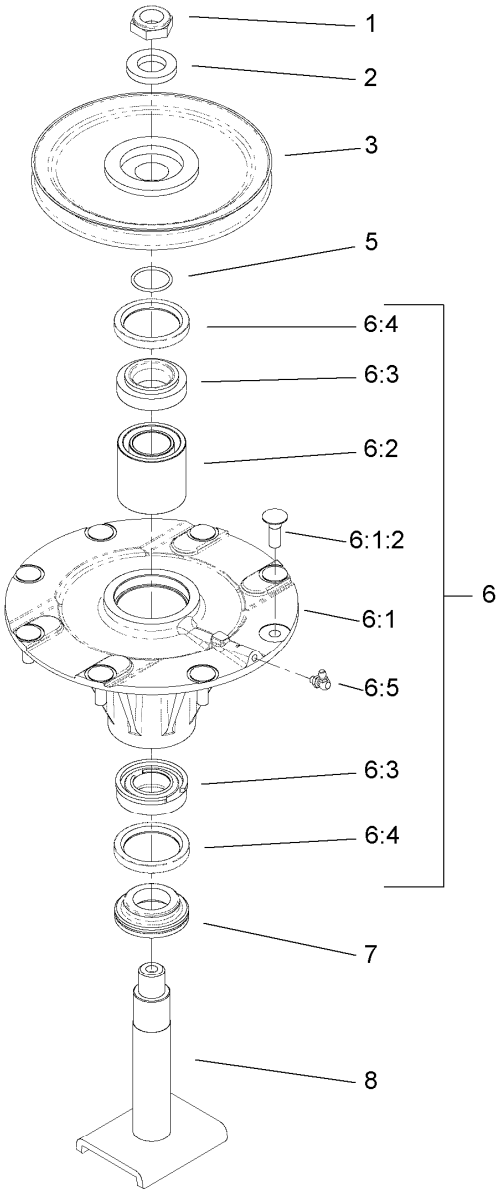
Ref.	Part Number	Qty.	Description
1	127-6481	1	Deck ASM
2	100-3102	1	Washer-Flat
3	104-8301	24	Nut-Flange, NI
4	110-0621-03	3	Blade-Medium Flow
4	110-0622-03	3	Blade-Rotary, High Flow
4	110-0624-03	3	Blade-Rotary, Atomic
5	72-9361	3	Cup-Scalp, Anti
6	92-5816	3	Bolt-Blade
7	120-6603-03	3	Ring-Doubler
11	01-268-0160	1	Pulley-Idler
15	108-1993	2	Screw-HSBH
18	119-4778	1	Spindle ASM
19	108-1924	2	Spacer-Idler
20	117-9176	1	Idler Arm ASM
20:2	93-4510	2	Bushing-Caster

Ref.	Part Number	Qty.	Description
21	110-9590	1	Belt-V
22	107-4767	1	Pulley
23	110-9596	1	Pulley-Idler
24	117-9233	1	High Spindle ASM
25	117-9234	1	Double Spindle ASM
26	108-1926	2	Washer
27	108-1921	2	Spring-Torsion
28	108-1930	1	Idler Arm ASM
28:2	93-4510	2	Bushing-Caster
29	32120-84	2	Ring-Snap, External
30	302-5	2	Fitting-Grease
31	110-9591	1	Belt-V
32	3296-45	2	Nut-Lock, NI
40	325-14	1	Screw-HH
41	3218-5	2	Nut-Jam



Deck Decal Assembly No. 127-6481

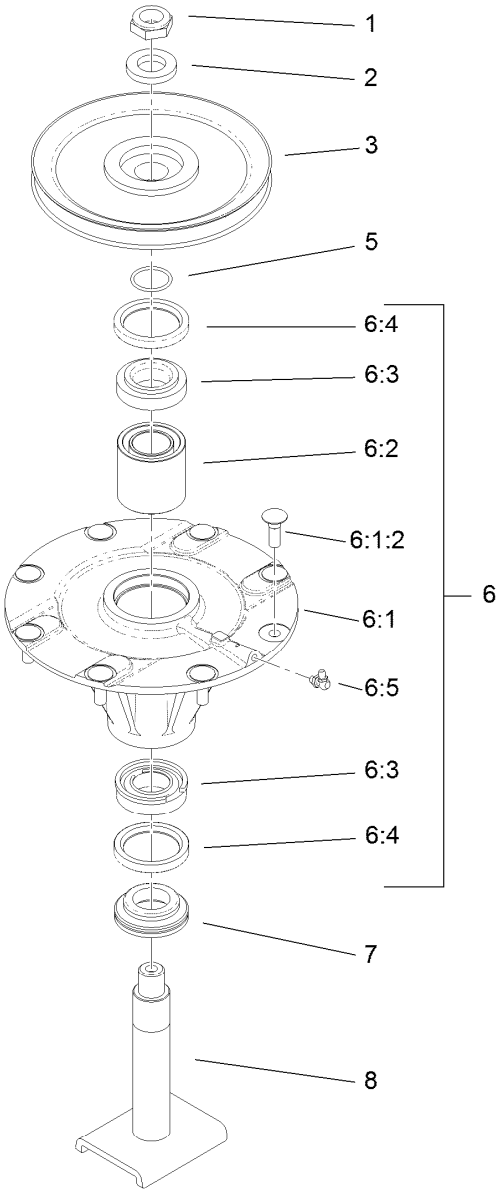
Ref.	*Part Number*	*Qty.*	*Description*
2	107-2916	1	Decal-Warning
3	117-4979	2	Decal-Warning, Shields
5	57-0280	1	Decal
6	93-7818	2	Decal-Torque, Blade Bolt
7	120-6604	1	Decal-Danger
8	107-2908	2	Decal-Danger, Combination
9	93-6696	3	Decal-Warning
10	110-3510	2	Nut-Retainer
11	110-0988	1	Tread-Floor, Side



Spindle Assembly No. 119-4778

Ref.	*Part Number*	*Qty.*	*Description*
1	3296-60	1	Nut-Lock, NI
2	120-5576	1	Washer-Hardened
3	104-3547	1	Pulley-Driven, Double
5	106-7159	1	O-Ring
6	119-4777	1	Spindle ASM
6:1		1	Spindle ASM ●
6:1:2	114-8195	8	Bolt-Ribbed Neck
6:2	108-1954	1	Bearing Spacer Set
6:3	110-8297	1	Bearing ASM
6:4	253-154	2	Seal-Oil
6:5	302-60	1	Fitting-Grease
7	69-6950	1	Spacer-Shaft, Spindle
8	108-1956	1	Shaft

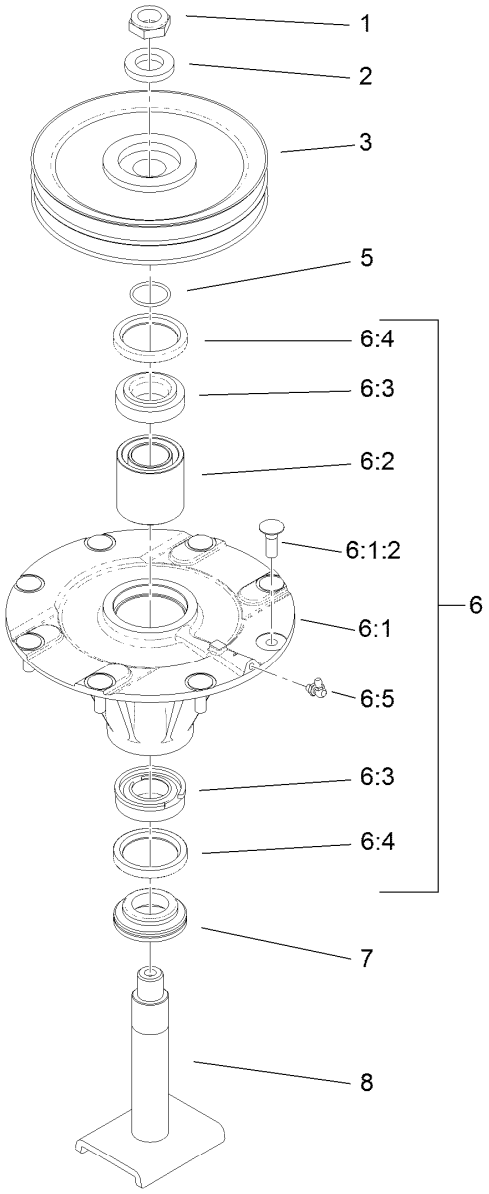
● Not serviced separately



High Spindle Assembly No. 117-9233

Ref.	*Part Number*	*Qty.*	*Description*
1	3296-60	1	Nut-Lock, NI
2	120-5576	1	Washer-Hardened
3	104-3546	1	Pulley-Driven, Low
5	106-7159	1	O-Ring
6	119-4777	1	Spindle ASM
6:1		1	Spindle ASM ●
6:1:2	114-8195	8	Bolt-Ribbed Neck
6:2	108-1954	1	Bearing Spacer Set
6:3	110-8297	1	Bearing ASM
6:4	253-154	2	Seal-Oil
6:5	302-60	1	Fitting-Grease
7	69-6950	1	Spacer-Shaft, Spindle
8	108-1956	1	Shaft

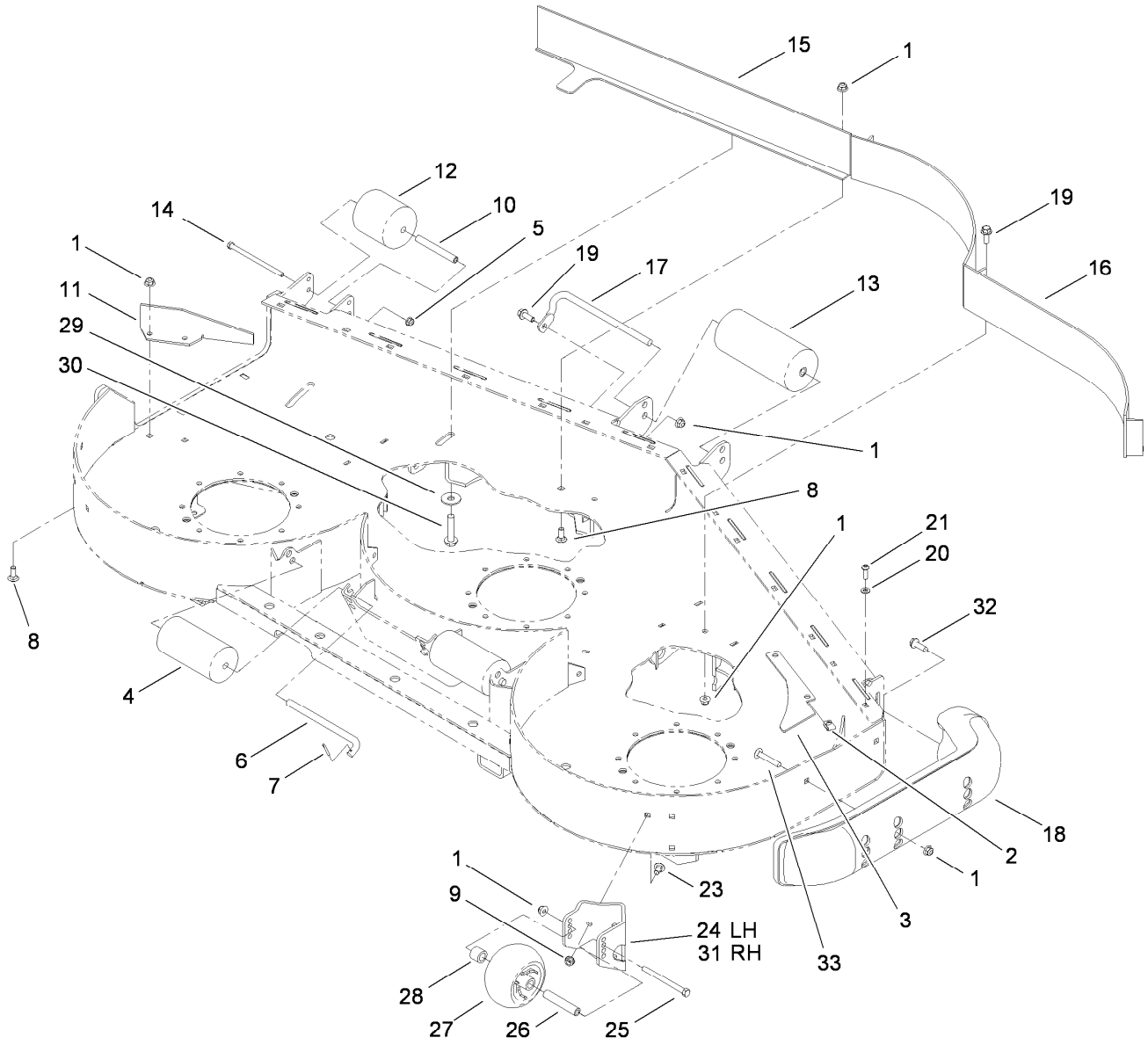
● Not serviced separately



Double Spindle Assembly No. 117-9234

Ref.	*Part Number*	*Qty.*	*Description*
1	3296-60	1	Nut-Lock, NI
2	120-5576	1	Washer-Hardened
3	104-3548	1	Pulley-Driven, High
5	106-7159	1	O-Ring
6	119-4777	1	Spindle ASM
6:1		1	Spindle ASM ●
6:1:2	114-8195	8	Bolt-Ribbed Neck
6:2	108-1954	1	Bearing Spacer Set
6:3	110-8297	1	Bearing ASM
6:4	253-154	2	Seal-Oil
6:5	302-60	1	Fitting-Grease
7	69-6950	1	Spacer-Shaft, Spindle
8	108-1956	1	Shaft

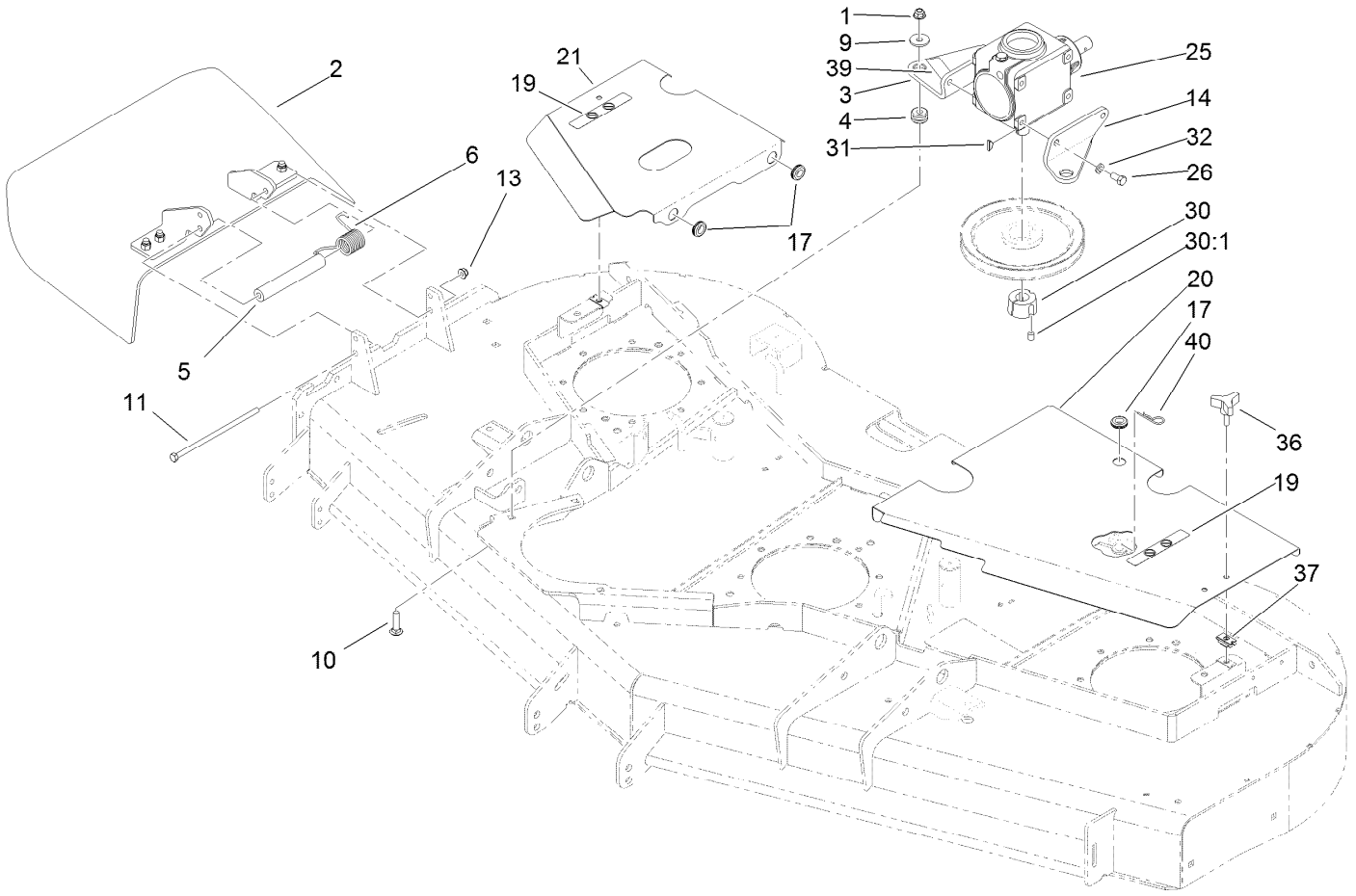
● Not serviced separately



Roller and Baffle Assembly

Ref.	Part Number	Qty.	Description
1	104-8301	11	Nut-Flange, NI
2	112-3306	2	Nut
3	115-1396	1	Plate-Turbo
4	36-1740	2	Roller-Deck
5	104-8300	1	Nut-Flange, NI
6	40-0340	2	Shaft-Roller, Rear
7	3272-11	2	Pin-Cotter
8	3231-2	3	Bolt-CARR
9	3290-357	6	Nut-HHF, Whiz
10	105-4549	1	Spacer-Roller
11	106-3216-01	1	Baffle-Discharge
12	93-4803	1	Roller-Deck
13	68-6710	1	Roller
14	322-49	1	Bolt-HH
15	105-7669-01	1	Baffle
16	105-7730-01	1	Baffle

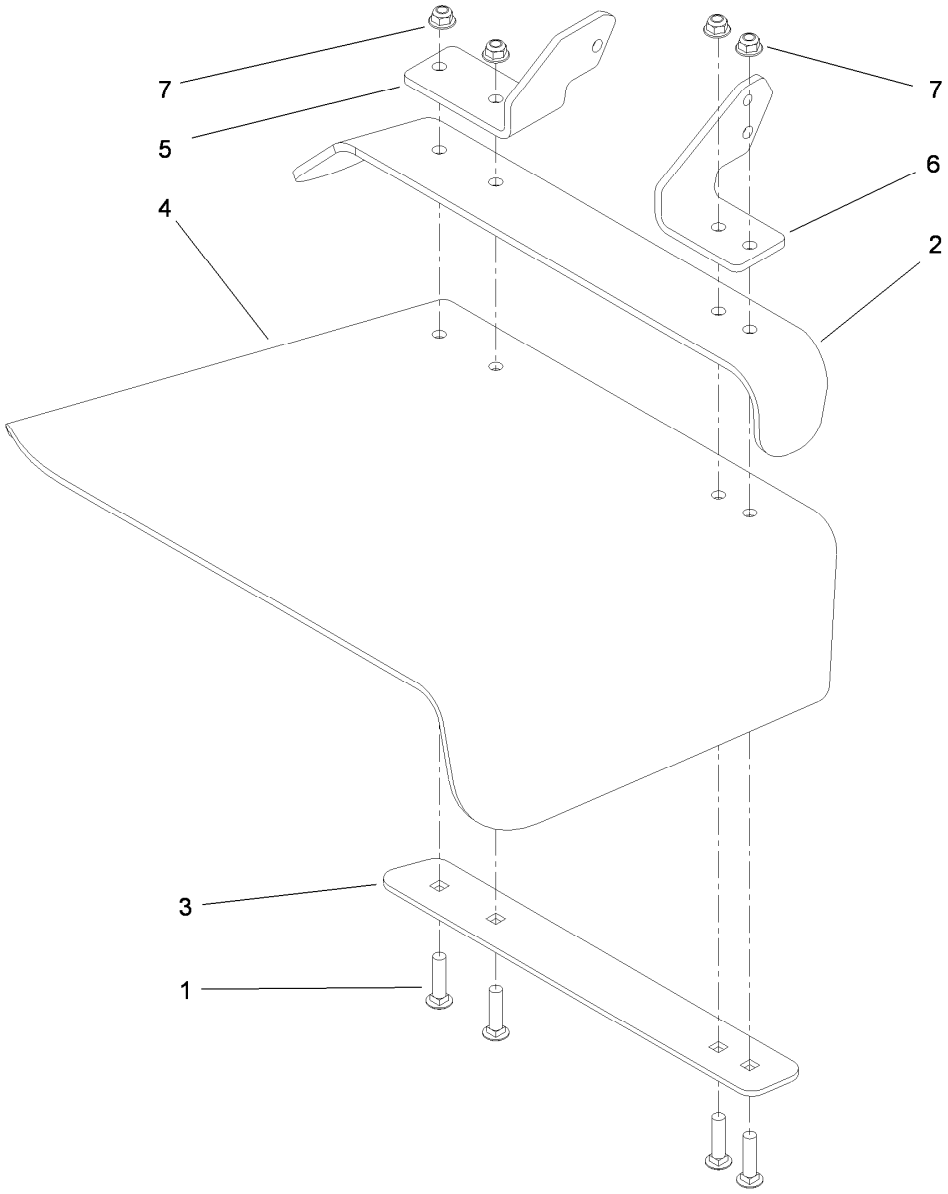
Ref.	Part Number	Qty.	Description
17	68-6840	1	Shaft-Roller
18	112-1479	1	Skid-Bumper, Deck
19	3234-42	4	Screw-HHF
20	3256-23	2	Washer-Flat
21	3274-104	2	Screw-HSBH
23	3231-1	6	Screw-CARR
24	106-7354-01	1	Mount-Wheel, LH
25	323-23	2	Screw-HH
26	98-7912	2	Tube-Spanner
27	1-603299	2	Roller-Scalp, Anti
28	98-7913	2	Tube-Spacer
29	105-7697	2	Washer-Plastic
30	3234-46	2	Screw-HHF
31	106-7355-01	1	Mount-Wheel, RH
32	9136144	1	Screw-HWHTF
33	3231-33	2	Screw-CARR



Belt Cover, Gearbox and Baffle Assembly

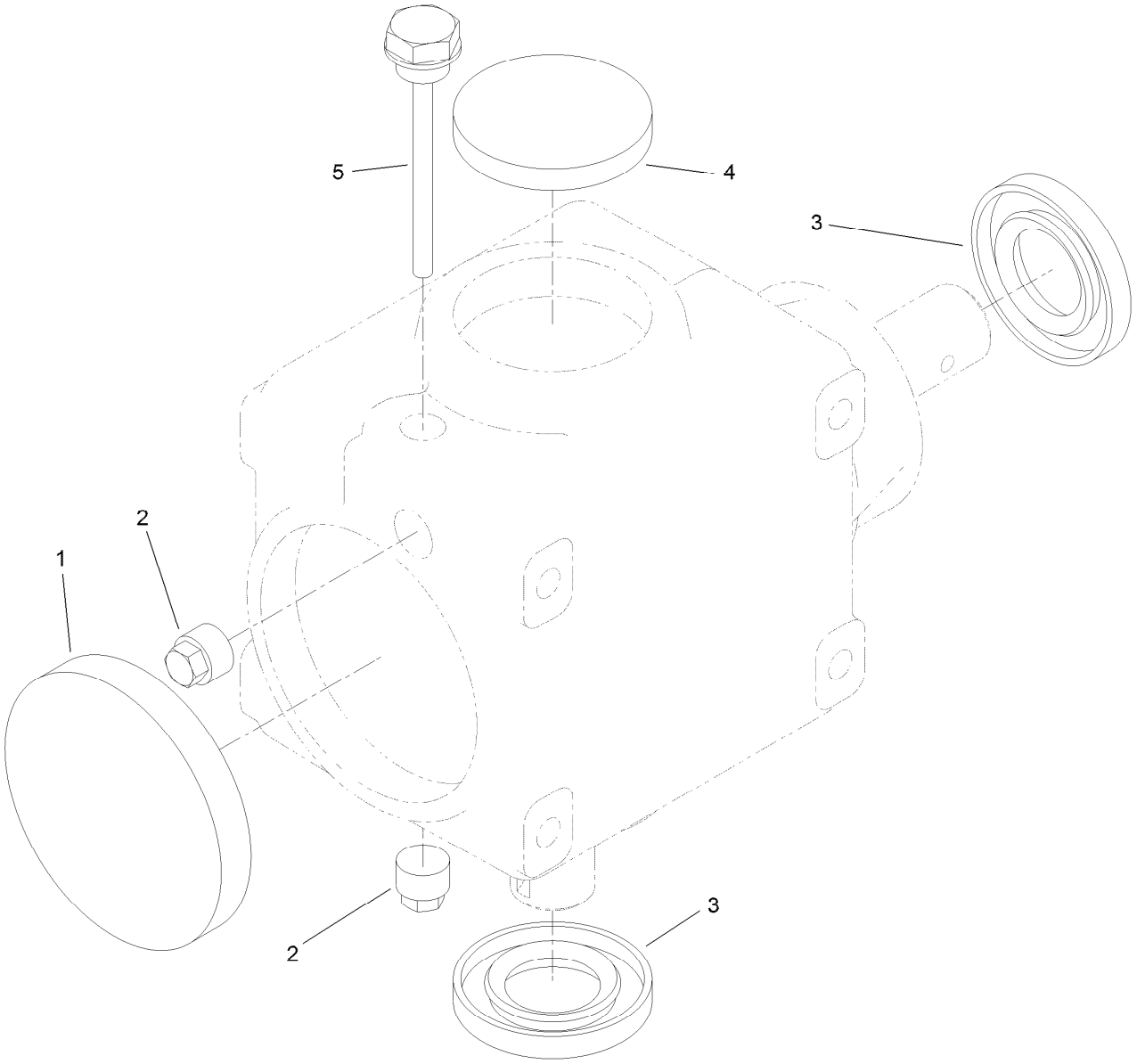
Ref.	Part Number	Qty.	Description
1	104-8301	3	Nut-Flange, NI
2	108-2792	1	Rubber Deflector ASM
3	110-6385-03	1	Bracket-Gearbox, RH
4	63-9750	3	Mount
5	105-4622	1	Spacer
6	108-4052	1	Spring-Torsion
9	63-8410	3	Washer
10	3231-26	3	Screw-CARR
11	112-9557	1	Screw-HH
13	104-8300	1	Nut-Flange, NI
14	110-6384-03	1	Bracket-Gearbox, LH
17	112-9559	4	Grommet
19	93-6687	2	Decal-No Step

Ref.	Part Number	Qty.	Description
20	112-1455-03	1	Cover-Deck, LH
21	112-1456-03	1	Cover-Deck, RH
25	117-9245-03	1	Gearbox ASM
26	323-4	4	Screw-HH
30	23-1640	1	Bushing-Taperlock
30:1	3247-4	2	Screw-Set
31	3257-5	1	Key-Woodruff
32	3253-21	4	Washer-Lock
36	106-2240	2	Knob
37	110-3510	2	Nut-Retainer
39	93-6697	1	Decal-Lube
40	9335054	1	Pin-Hair



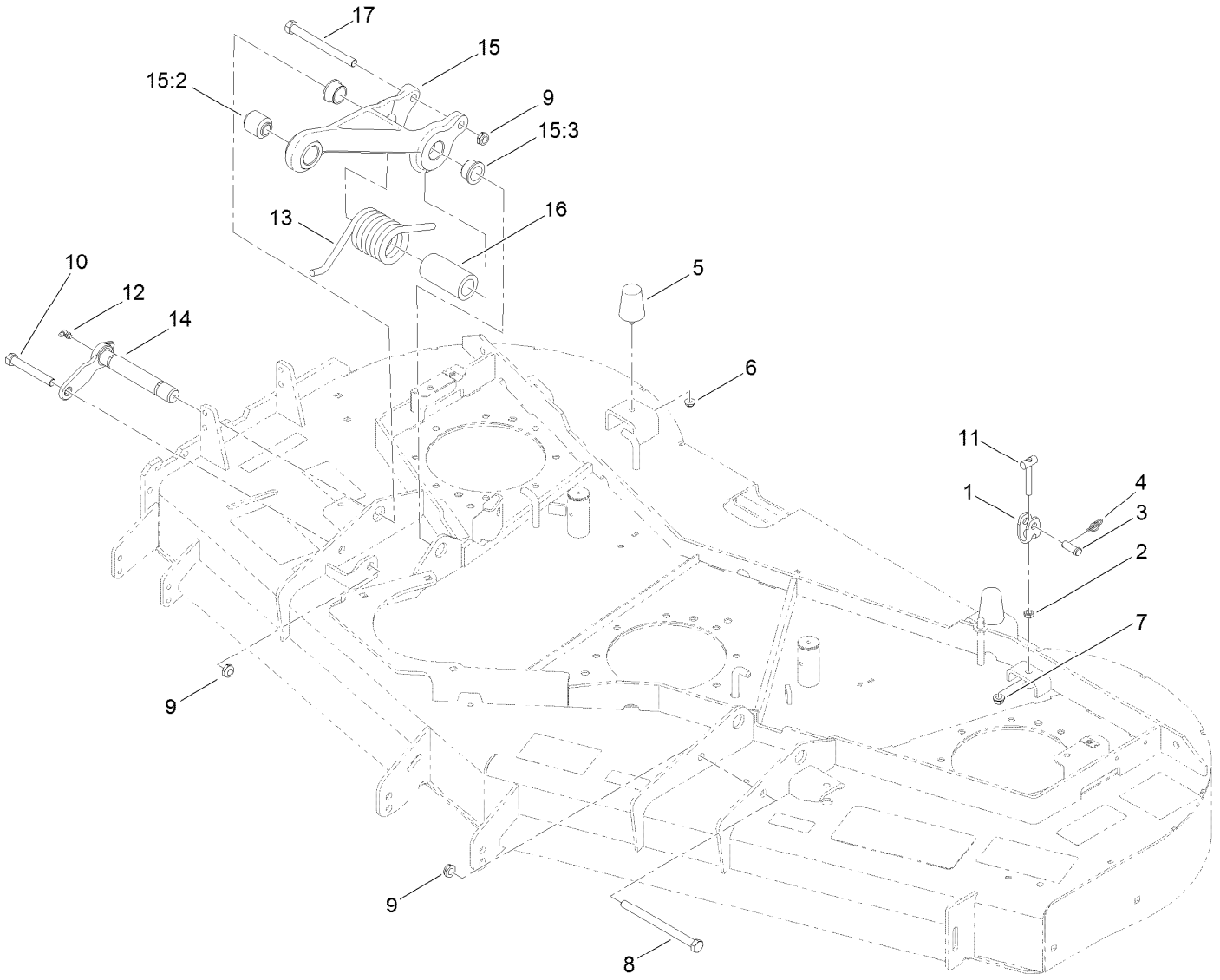
Rubber Deflector Assembly No. 108-2792

Ref.	*Part Number*	*Qty.*	*Description*
1	3231-4	4	Screw-CARR
2	106-3246-01	1	Deflector
3	106-3248-03	1	Strap-Discharge
4	108-5029	1	Deflector-Rubber
5	108-4059-01	1	Plate-Hinge, Rear
6	106-3253-01	1	Plate-Hinge, Front
7	104-8301	4	Nut-Flange, NI



Gearbox Assembly No. 117-9245-03

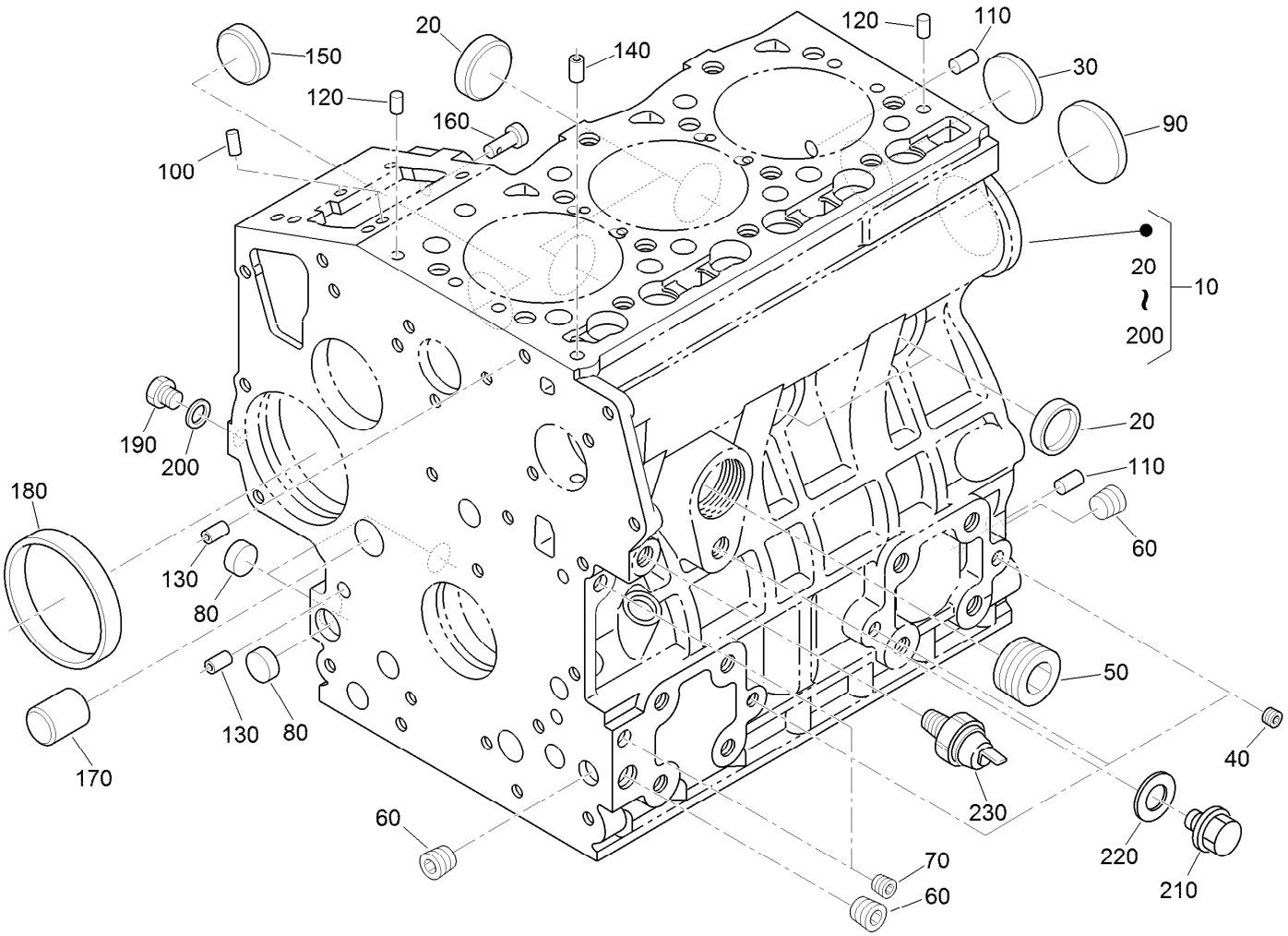
Ref.	*Part Number*	*Qty.*	*Description*
1	107-2932	1	Cap-Oil
2	107-2933	2	Plug
3	117-9247	2	Seal
4	107-2935	1	Cap-Oil
5	110-8283	1	Plug-Filler, Dipstick



Adjustment Link and Bumper Assembly

Ref.	Part Number	Qty.	Description
1	115-1429	4	Yoke-Clevis
2	3218-3	4	Nut-Jam
3	700601	4	Pin-Clevis
4	112-1491	4	Pin-Cotter
5	110-5070	2	Bumper
6	104-8300	2	Nut-Flange, NI
7	3290-357	4	Nut-HHF, Whiz
8	325-33	1	Screw-HH
9	3296-45	4	Nut-Lock, NI
10	325-14	1	Screw-HH

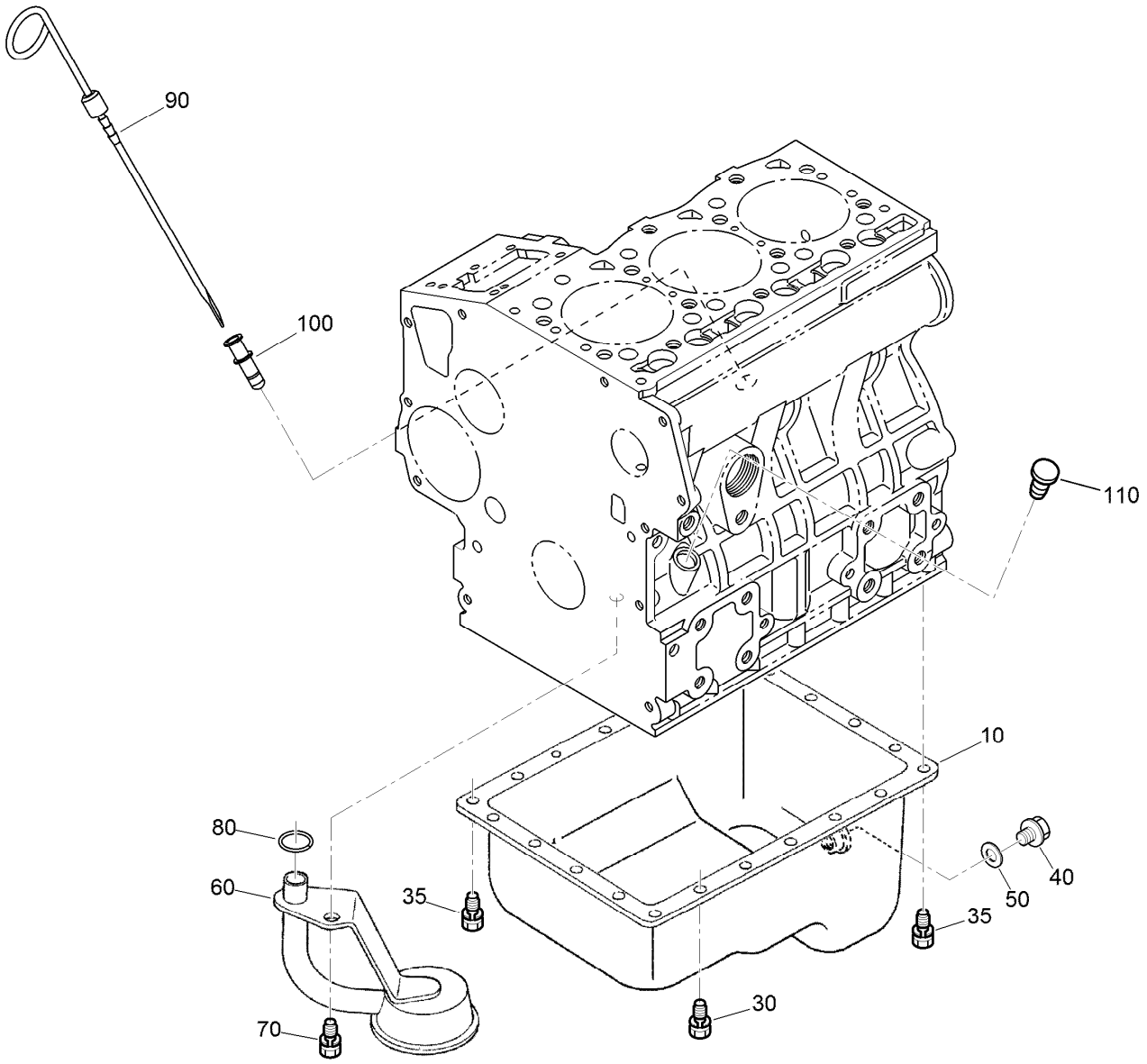
Ref.	Part Number	Qty.	Description
11	115-1431	4	T-Bar ASM
12	302-60	4	Fitting-Grease
13	110-9828	2	Spring-Torsion
14	120-5570	2	Pin-Retainer
15	112-1625	2	Pull Link ASM
15:2	107-2328	1	Bushing
15:3	114-5680	2	Bushing-Flange
16	110-9845	2	Spacer-Plain
17	325-22	2	Screw-HH



Crankcase Assembly

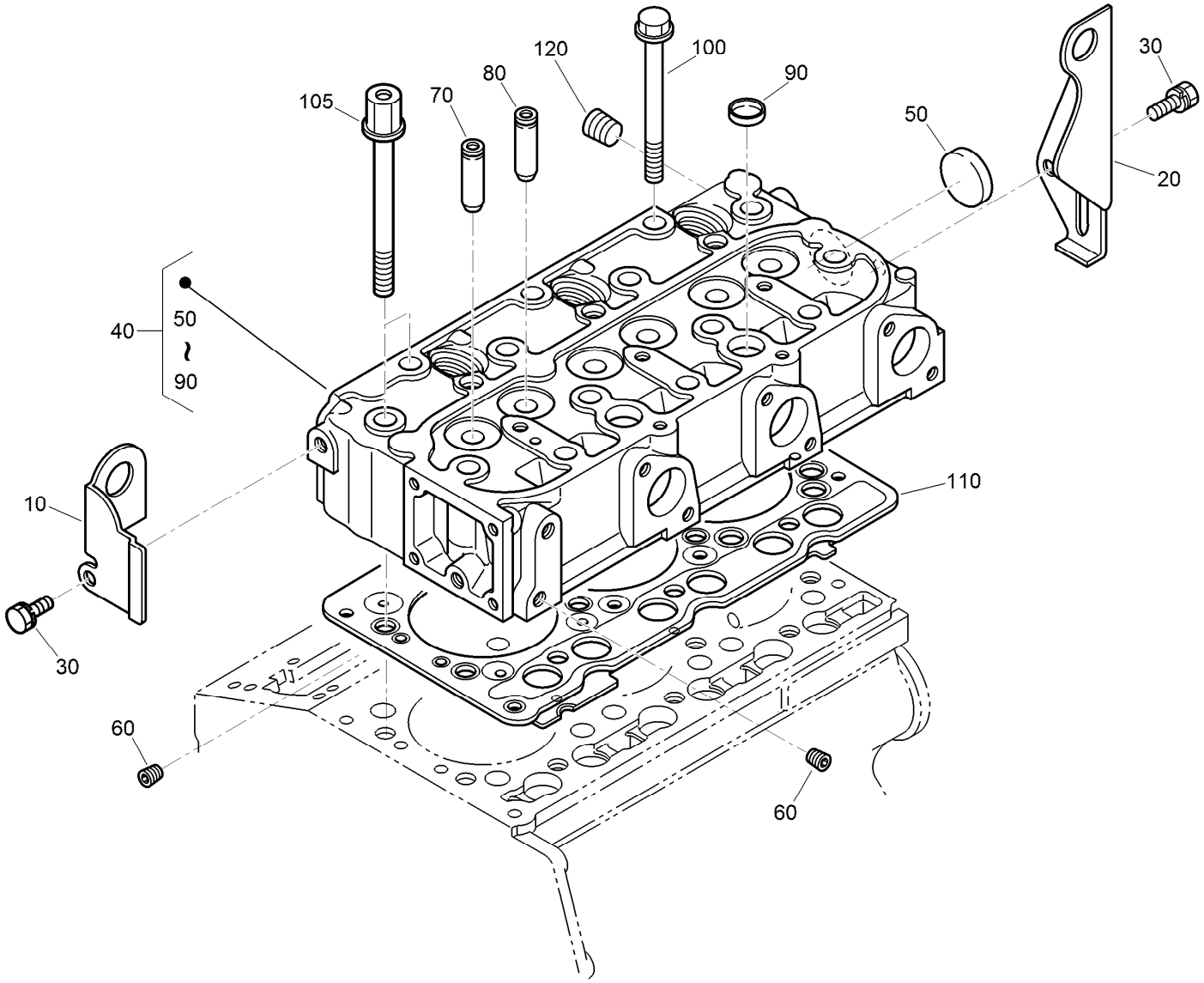
Ref.	Part Number	Qty.	Description
10	115-3443	1	Crankcase ASM
20	98-9398	4	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-9687	3	Plug
50	105-3779	1	Plug
60	98-9597	3	Plug
70	98-7487	2	Plug
80	98-9379	3	Plug-Expansion
90	98-9668	1	Plug-Expansion
100	98-9375	2	Pin-Straight
110	98-9377	2	Pin-Straight
120	98-9376	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	106-7056	1	Gasket
230	98-9416	1	Switch-Oil



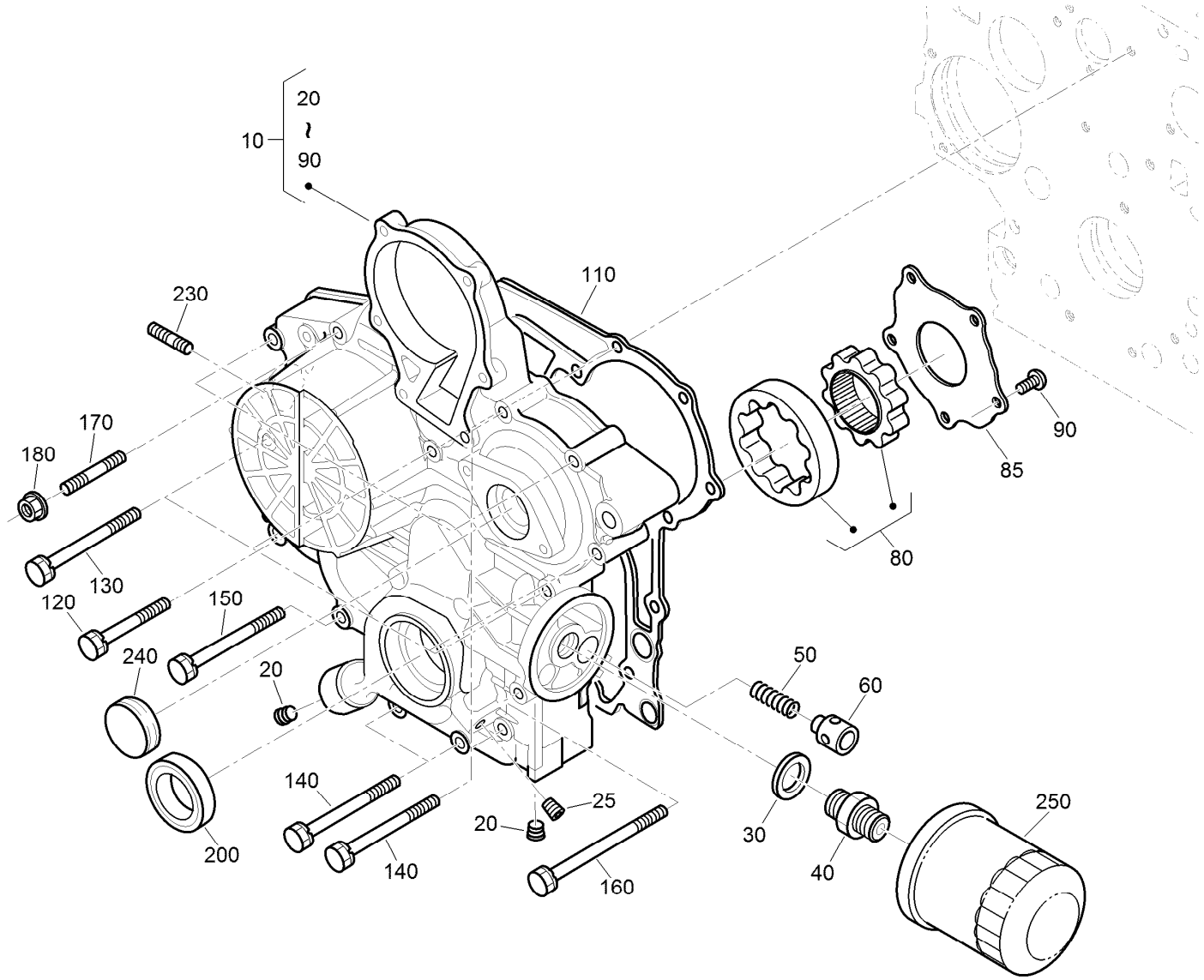
Oil Pan and Dipstick Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-0179	1	Pan-Oil
30	98-9351	20	Bolt
35	98-9351	2	Bolt
40	114-8151	1	Plug-Drain
50	98-7524	1	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

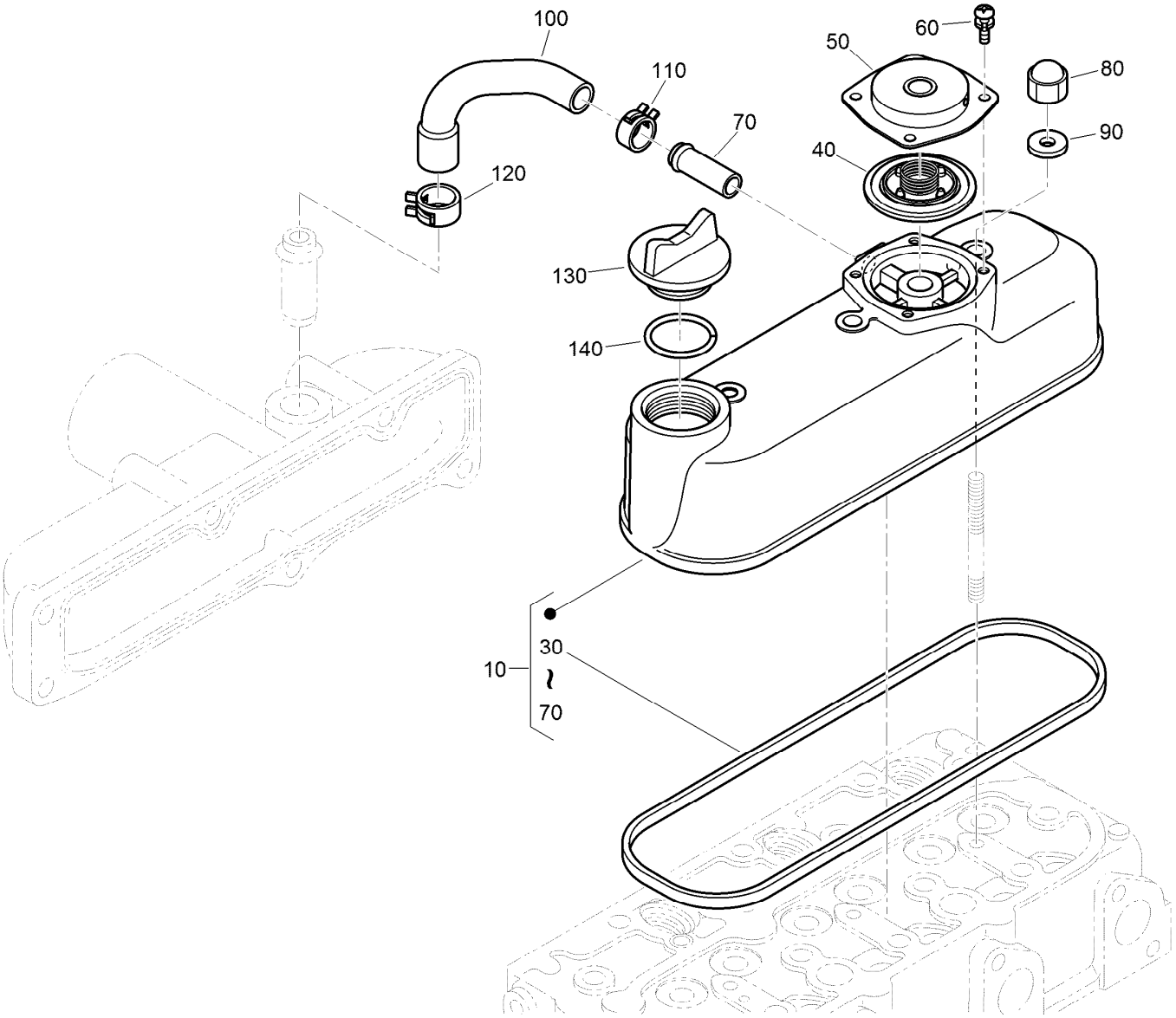
Ref.	*Part Number*	*Qty.*	*Description*
10	130-1231	1	Hook-Engine
20	98-9478	1	Hook-Engine
30	100-9195	2	Bolt
40	130-1544	1	Cylinder Head ASM
50	105-3705	1	Cap-Sealing
60	98-9687	2	Plug
70	107-9066	3	Guide-Valve, Inlet
80	107-9067	3	Guide-Valve, Exhaust
90	98-9389	2	Cap-Sealing
100	98-9479	12	Bolt-Head,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



Gear Case and Oil Filter Cartridge Assembly

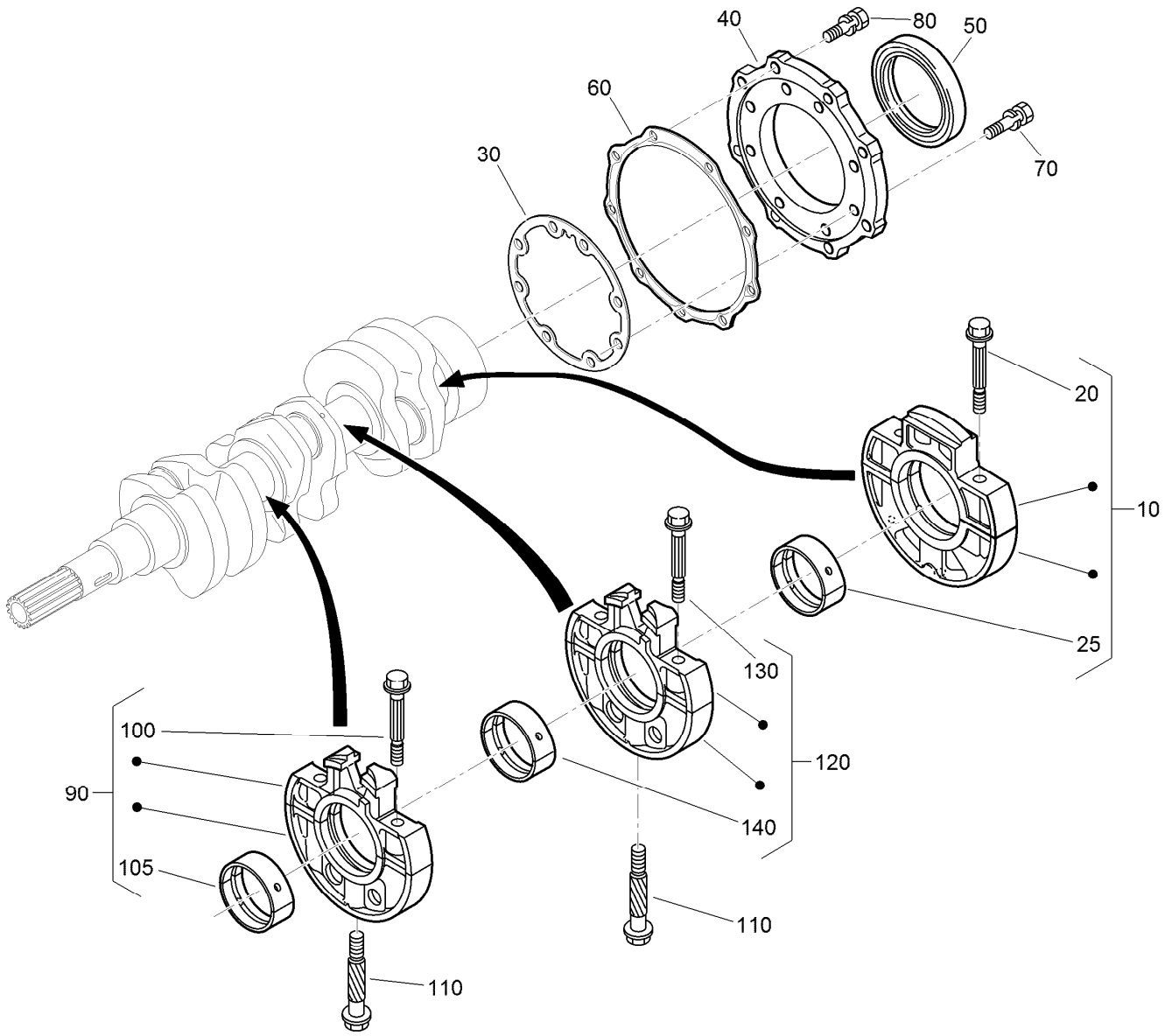
Ref.	Part Number	Qty.	Description
10	130-1243	1	Gear Case ASM
20	98-9598	2	Plug
25	98-7487	1	Plug
30	98-7562	1	Washer-Plain
40	98-9388	1	Joint-Pipe
50	130-1511	1	Spring
60	130-1510	1	Valve-Relief
80	130-1508	1	Rotor ASM
85	130-1509	1	Cover-Pump, Oil
90	130-1164	5	Screw-Binding
110	98-9633	1	Gasket-Case, 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	98-9586	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	98-9641	1	Cover-Case, Gear
250	127-0511	1	Filter-Oil



Cylinder Head Cover Assembly

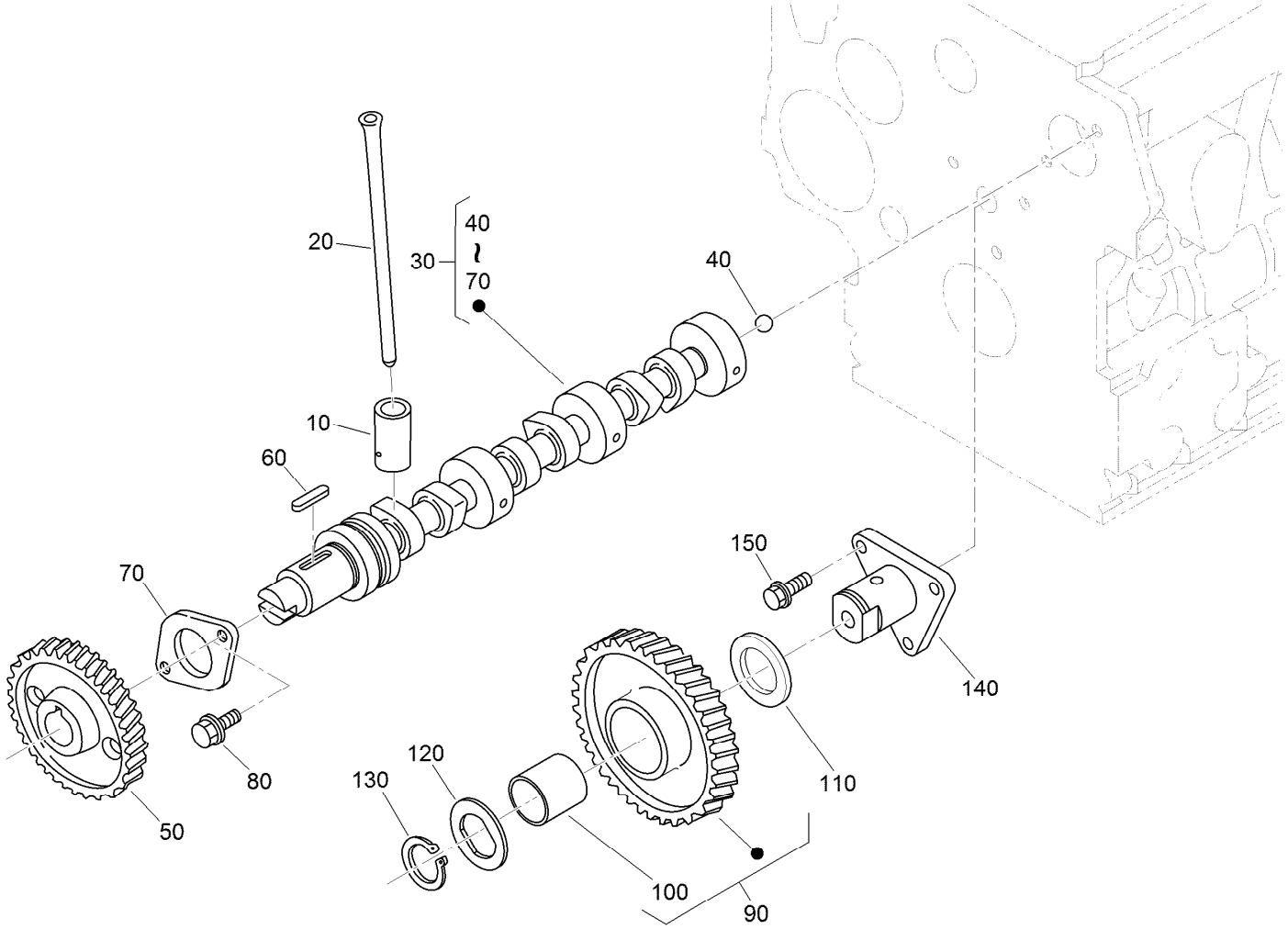
Ref.	*Part Number*	*Qty.*	*Description*
10	130-1372	1	Cylinder Head Cover ASM
30	130-1249	1	Gasket-Head Cover
40	110-3715	1	Valve-Breather
50	110-3714	1	Cover-Breather
60	98-9364	4	Screw (With Washer)
70	98-7766	1	Pipe-Return, Water
80	98-9455	3	Nut-Cap
90	98-9454	3	Gasket
100	108-2858	1	Tube-Breather
110	108-2859	1	Clamp-Hose
120	108-2860	1	Clamp-Hose
130	107-9075	1	Plug-Filler, Oil
140	99-3446	1	O-Ring



Main Bearing Case Assembly

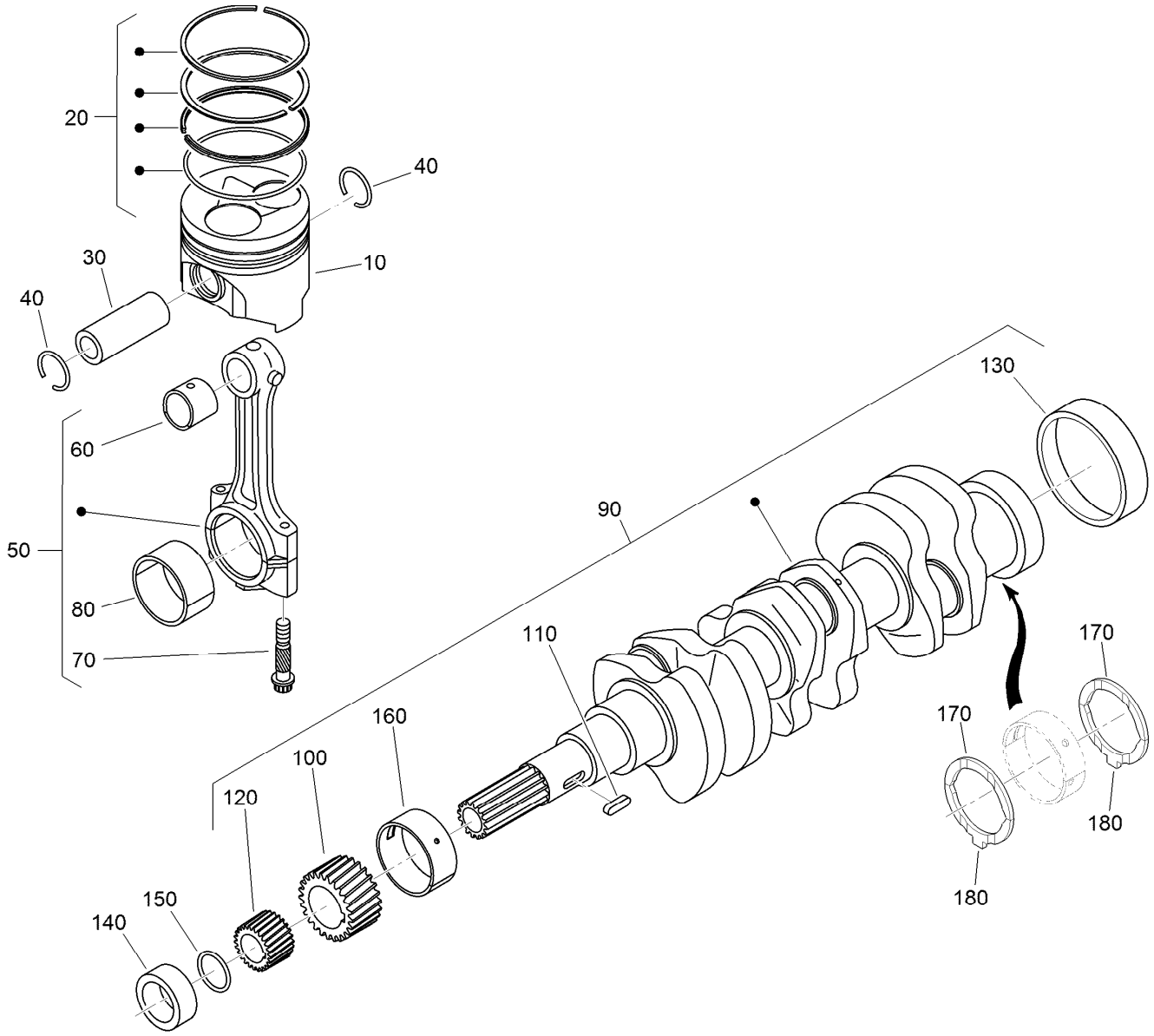
Ref.	Part Number	Qty.	Description
10	112-7026	1	Wheel Bearing Case ASM
20	98-9484	2	Bolt-Case, Bearing
25	115-4121	1	Metal-Crankshaft (STD)
25	112-7039	1	Metal-Crankshaft (0.2Mm)
25	112-7040	1	Metal-Crankshaft (-0.4Mm)
30	127-0440	1	Gasket-Case, Bearing
40	112-7046	1	Cover-Case, Bearing
50	112-0180	1	Seal-Oil
60	112-7037	1	Gasket-Cover, Case
70	127-0441	8	Bolt
80	127-0442	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

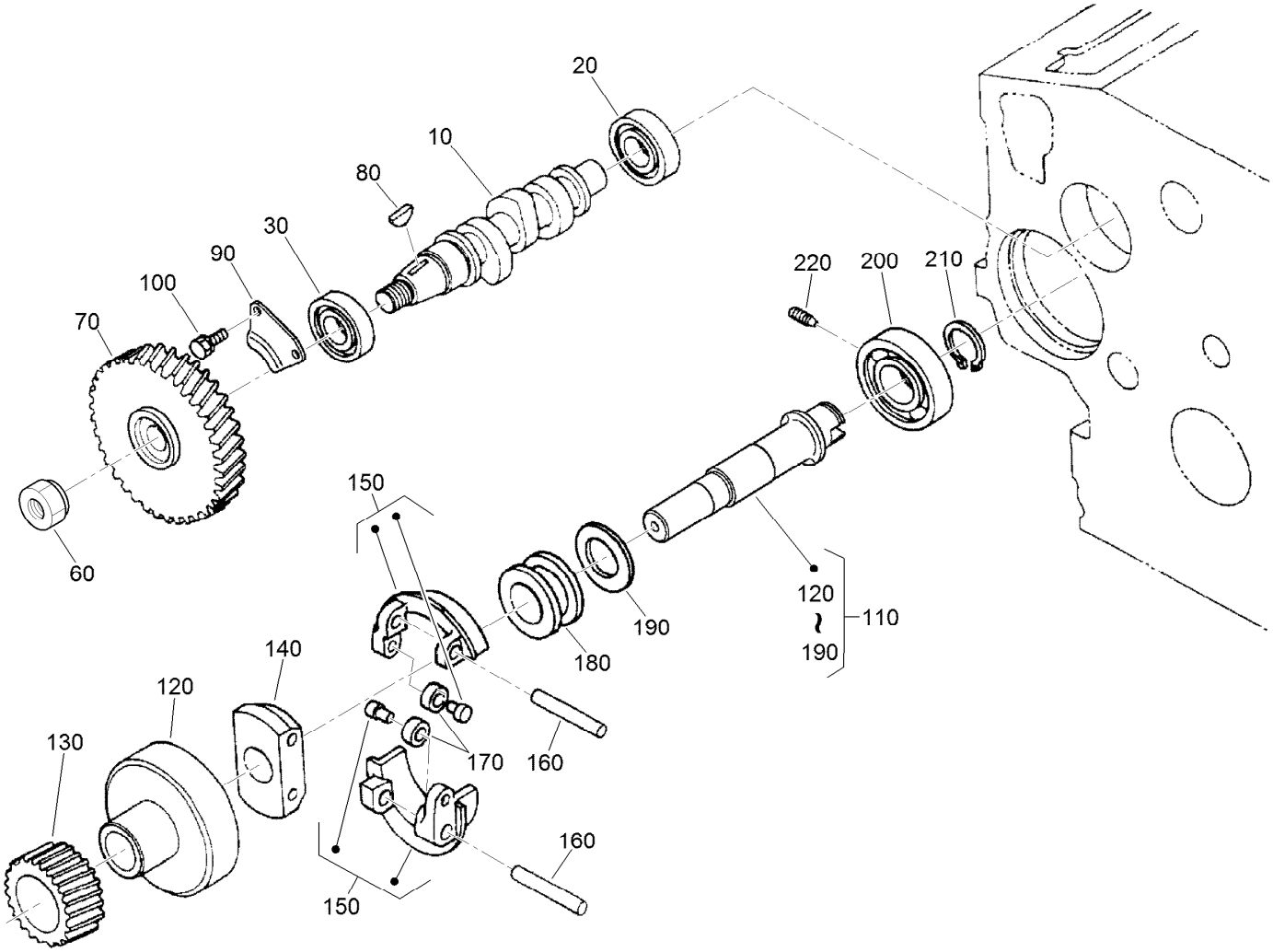
Ref.	*Part Number*	*Qty.*	*Description*
10	112-0185	1	Tappet
20	127-0421	6	Rod-Push
30	130-1545	1	Camshaft ASM
40	110-3729	1	Ball
50	98-9512	1	Gear-Cam
60	98-9378	1	Key-Feather
70	98-9510	1	Stopper-Camshaft
80	98-7692	2	Bolt
90	117-7584	1	Idler Gear ASM
100	117-7585	1	Bushing-Gear, Idle
110	98-9535	1	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
10	130-1549	3	Piston
20	130-1506	3	Piston Ring ASM
20	130-1507	3	Piston Ring ASM
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	117-7587	3	Metal-Crankpin (-0.2Mm)
80	117-7588	3	Metal-Crankpin (-0.4Mm)
90	130-1375	1	Crankshaft ASM
100	117-7561	1	Gear-Crankshaft

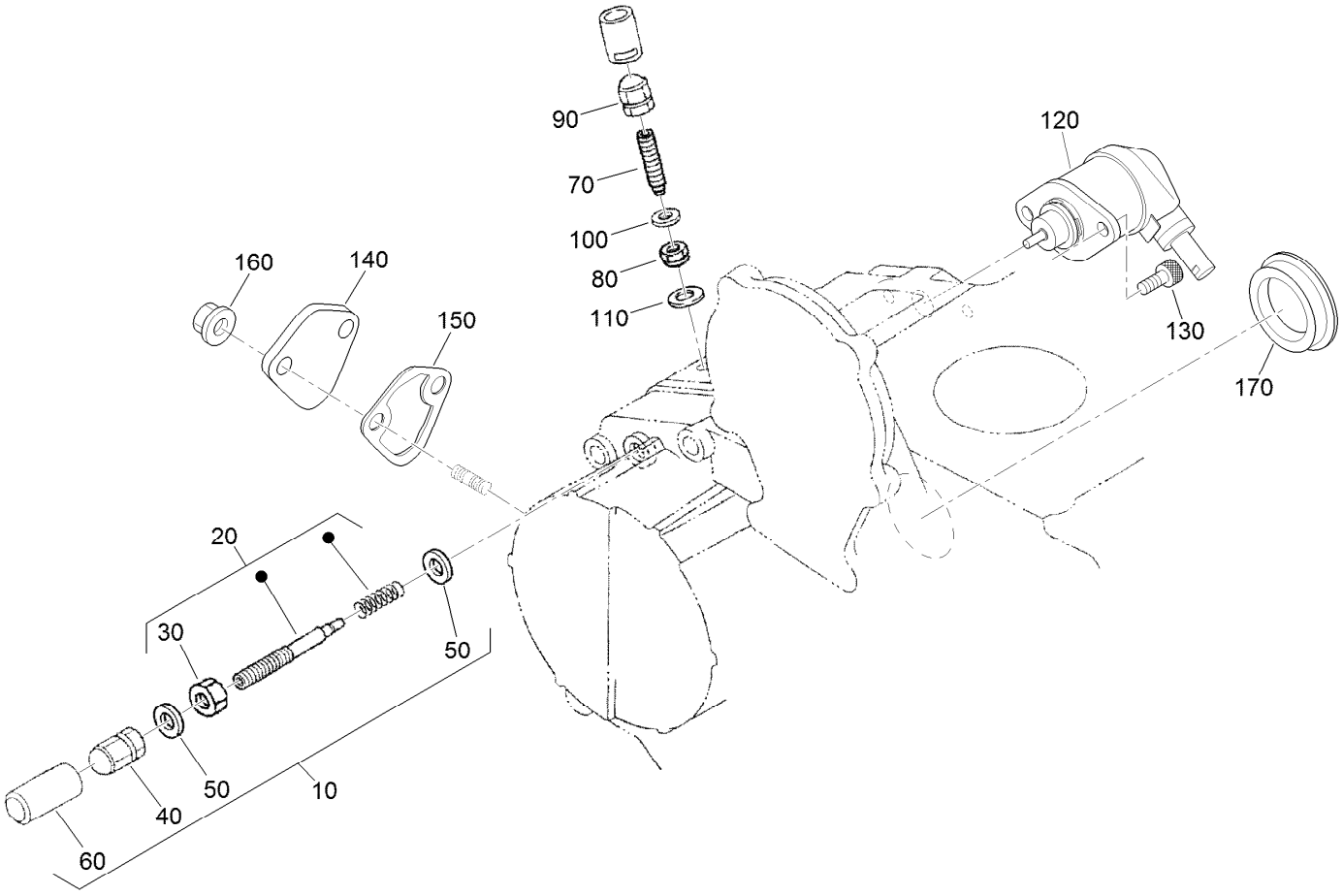
Ref.	Part Number	Qty.	Description
110	98-9666	1	Key
120	127-0445	1	Gear-Drive, Oil Pump
130	98-9522	1	Sleeve-Crankshaft
140	127-0444	1	Collar-Crankshaft
150	105-3783	1	O-Ring
160	112-7005	1	Bearing-Main (STD)
160	98-9528	1	Bearing-Main (0.2Mm)
160	130-1274	1	Metal-Crankshaft
170	98-9413	2	Bearing-Thrust (STD)
170	127-0416	2	Metal-Side (+0.2Mm)
170	127-0417	2	Metal-Side (+0.40Mm)
180	98-9688	2	Bearing-Thrust (STD)
180	127-0437	2	Metal-Side (+0.2Mm)
180	127-0438	2	Metal-Side (+0.40Mm)



Fuel Camshaft and Governor Shaft Assembly

Ref.	Part Number	Qty.	Description
10	98-9459	1	Camshaft-Fuel
20	107-9077	1	Bearing-Ball
30	107-9078	1	Bearing-Ball
60	130-1512	1	Nut
70	120-2562	1	Gear-Pump, Injection
80	98-9595	1	Key-Woodruff
90	98-9511	1	Stopper-Fuel, Camshaft
100	98-7692	2	Bolt
110	130-1255	1	Governor Shaft ASM
120	98-9562	1	Holder-Gear, Governor

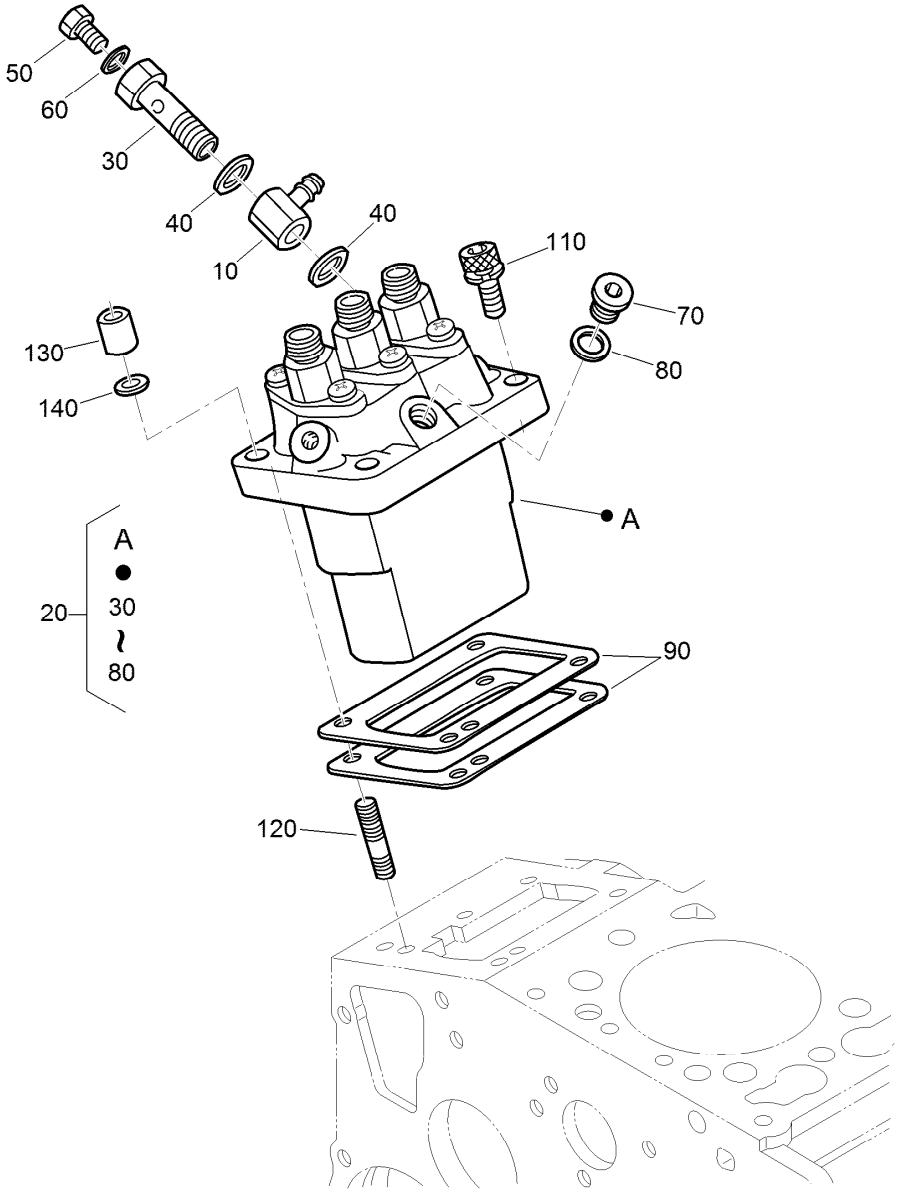
Ref.	Part Number	Qty.	Description
130	98-9673	1	Gear-Governor
140	98-9561	1	Holder-Weight, Governor
150	130-1240	2	Governor Weight ASM
160	98-9560	2	Shaft-Weight, Governor
170	98-9692	2	Roller
180	98-9563	1	Sleeve-Governor
190	98-9564	1	Washer-Thrust
200	107-9079	1	Bearing-Ball
210	98-9657	1	Circlip-Shaft, Governor
220	98-9565	1	Screw-Set



Idle Apparatus 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
70	112-7015	1	Bolt-Adjusting
80	100-2175	1	Nut-Lock
90	112-0181	1	Nut

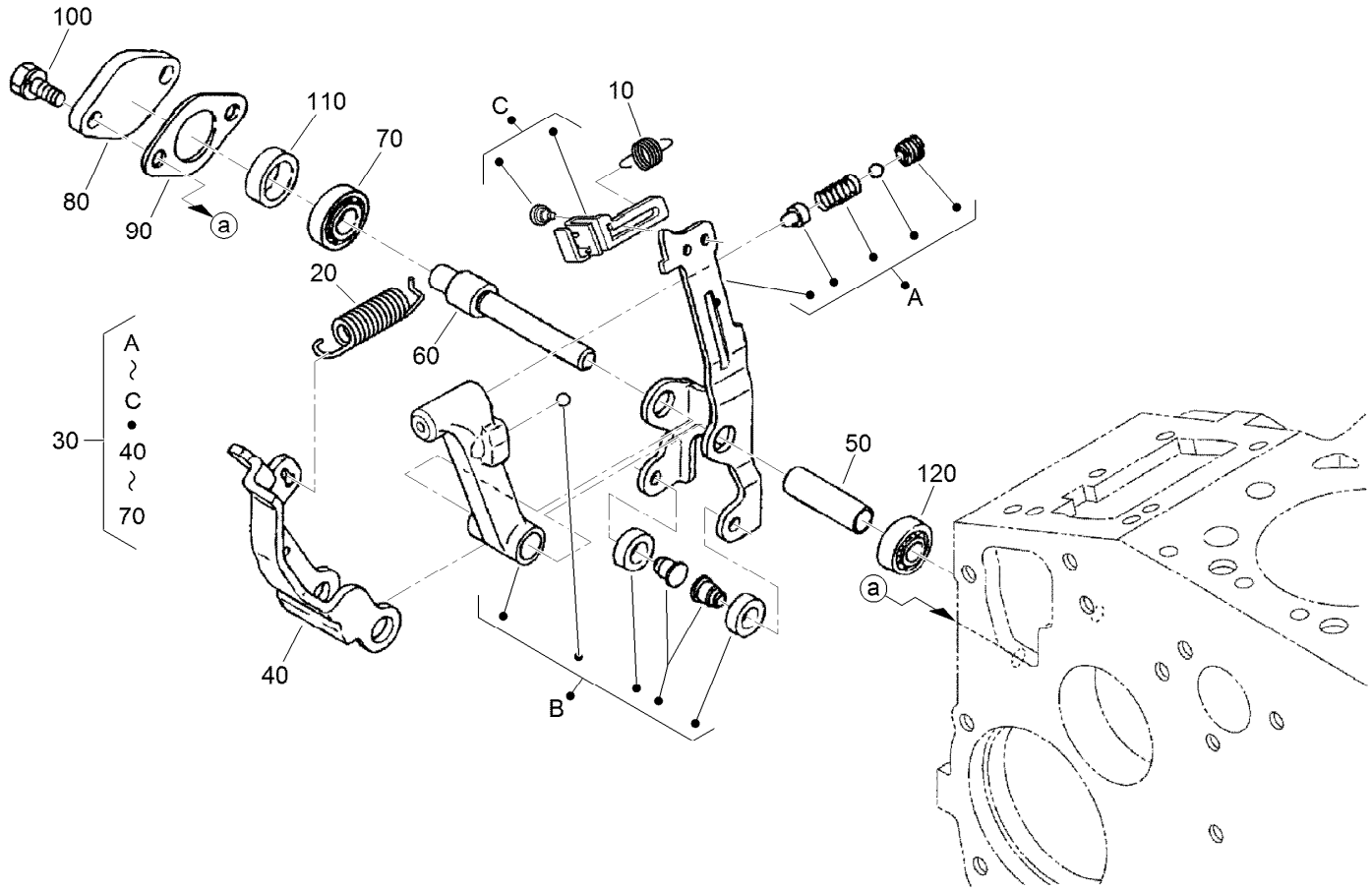
Ref.	Part Number	Qty.	Description
100	98-7654	1	Gasket
110	107-9081	1	Gasket
120	104-5155	1	Solenoid-Stop
130	130-1155	2	Screw-HSH
140	99-3514	1	Cover
150	117-7562	1	Gasket-Pump, Fuel
160	100-2203	2	Nut-Flange
170	112-7016	1	Cover-Pump



Injection Pump Assembly

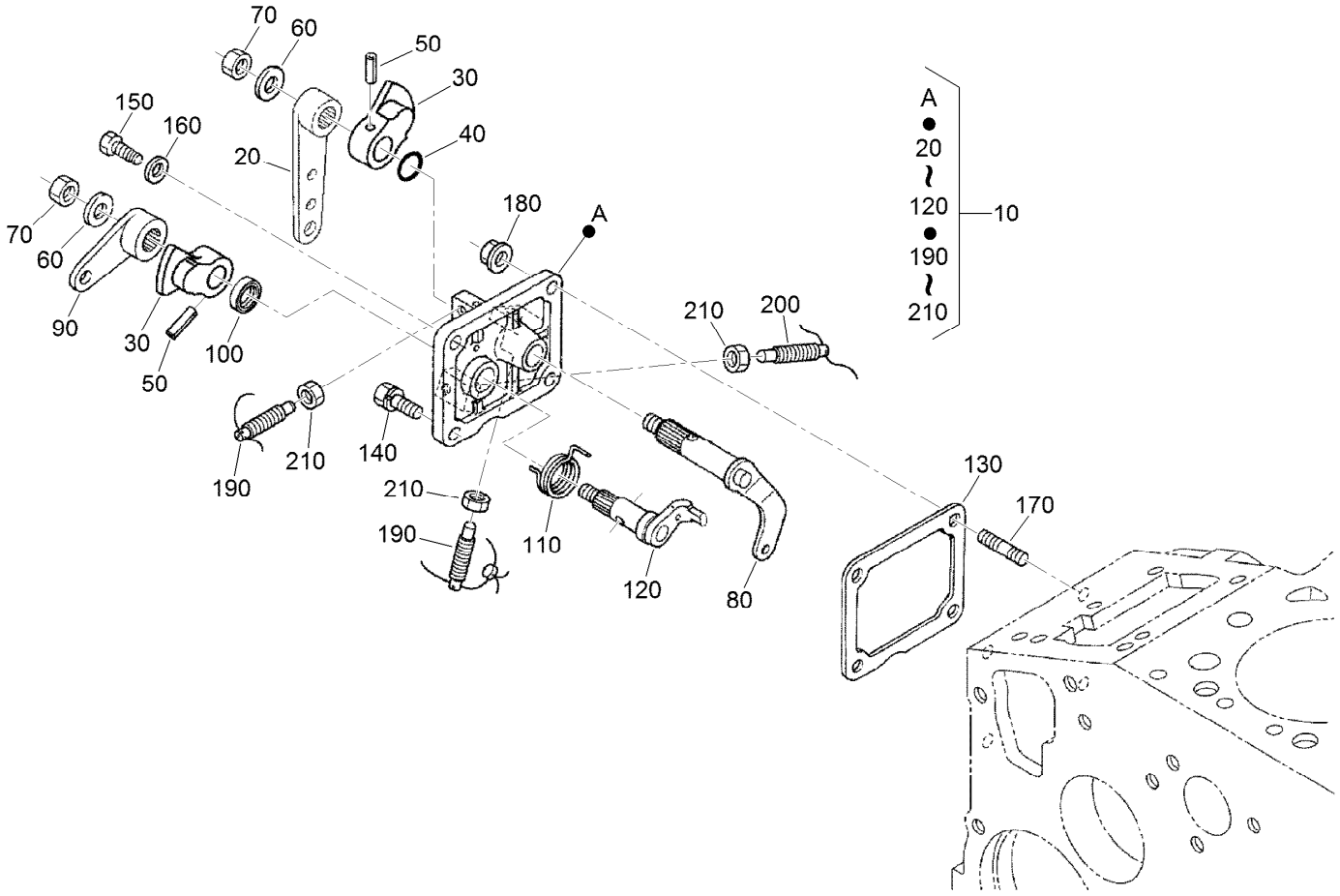
Ref.	Part Number	Qty.	Description
10	98-9596	1	Joint-Eye
20	98-9643	1	Injection Pump ASM
30	98-9464	1	Bolt-Joint
40	98-9445	2	Gasket
50	98-9430	1	Screw
60	98-9446	1	Gasket
70	98-9466	1	Plug
80	98-9451	1	Gasket
90	98-9456	1	Shim-Injection (0.20Mm)

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



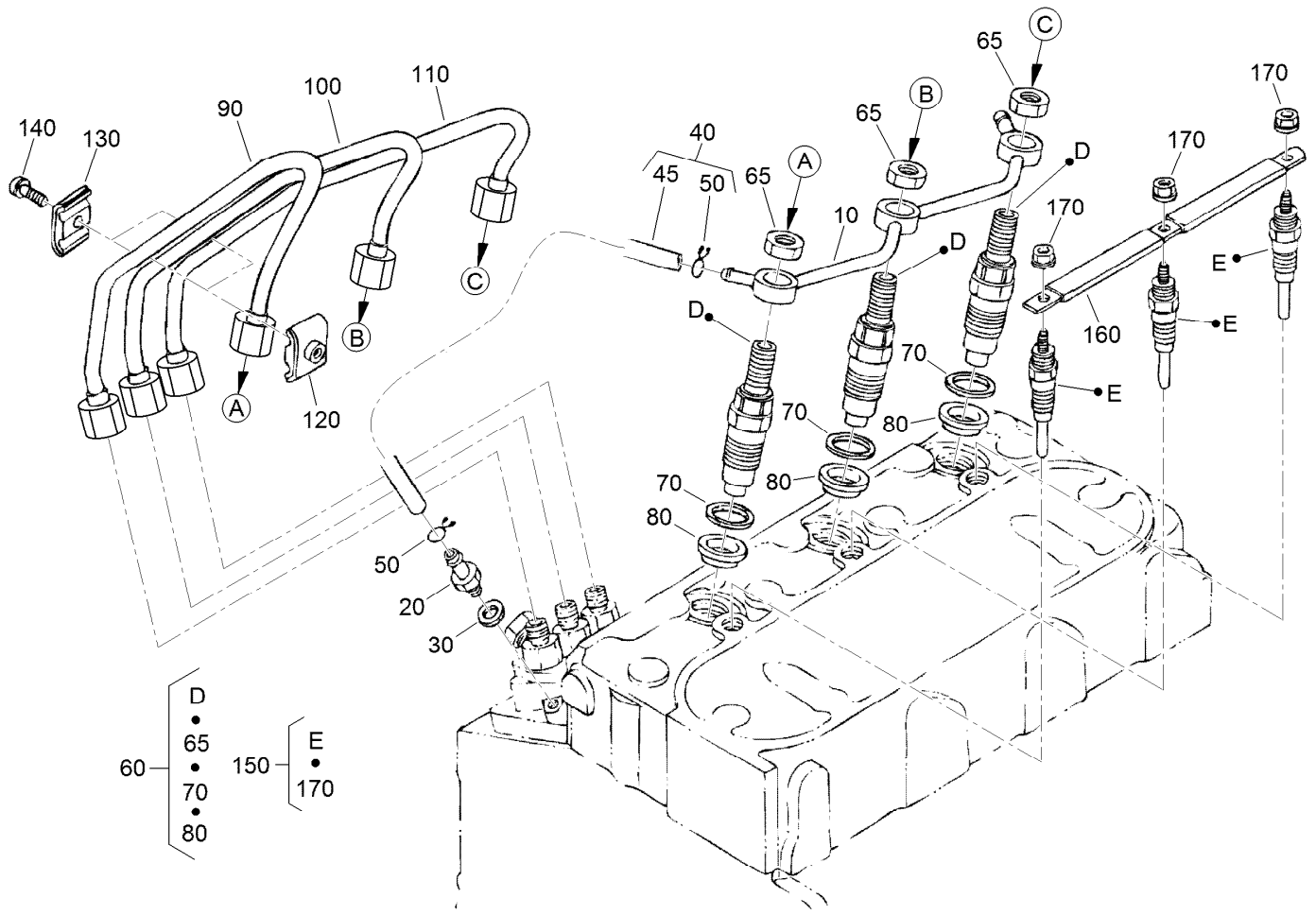
Governor Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3786	1	Spring-Start
20	98-9681	1	Spring-Governor
30	115-4502	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

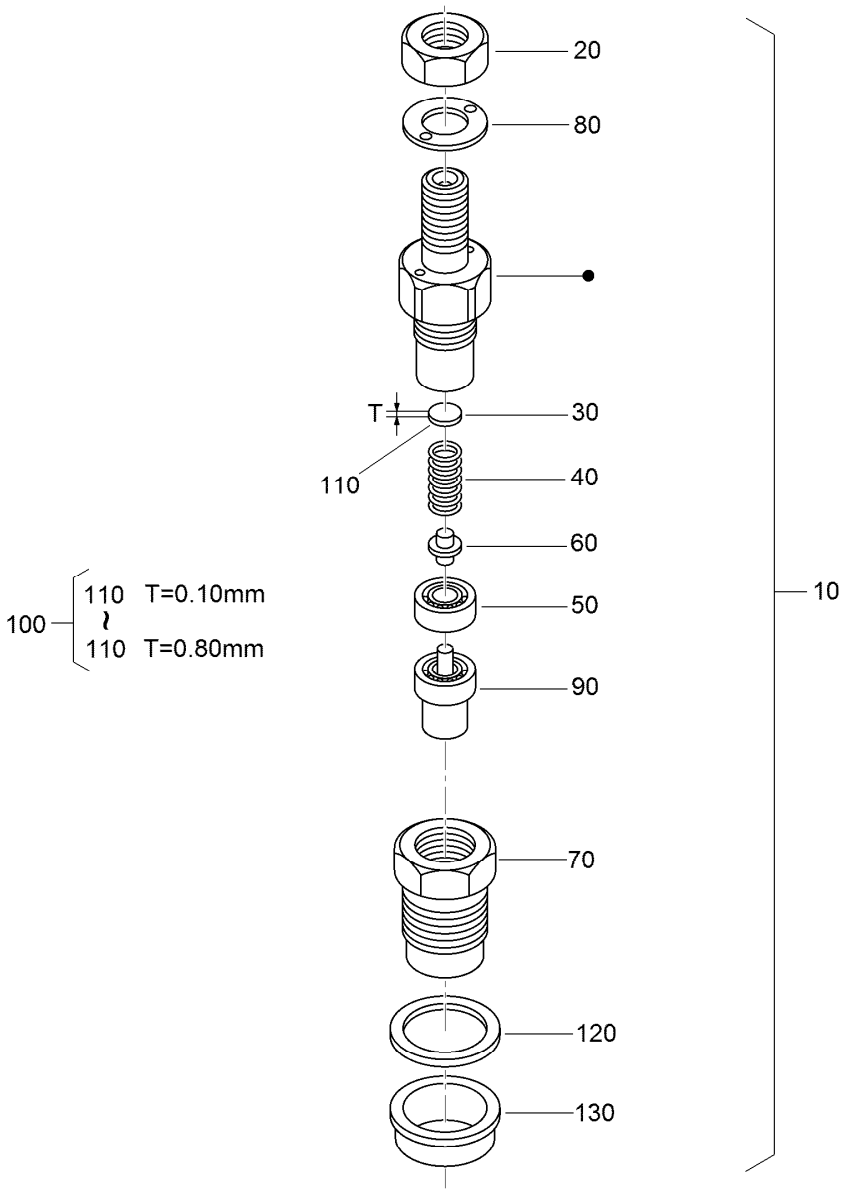
Ref.	Part Number	Qty.	Description
10	105-3735	1	Control Plate ASM
20	98-9662	1	Lever-Control, Speed
30	98-9572	2	Lever-Control, Speed
40	105-3788	1	O-Ring
50	98-7602	2	Pin-Spring
60	98-9594	2	Washer-Plain
70	98-9589	2	Nut
80	98-9658	1	Governor Lever ASM
90	98-9663	1	Lever-Stop, Engine
100	98-7601	1	Seal-Oil
110	98-9472	1	Spring-Return
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	98-9420	1	Overflow Pipe ASM
45	112-0182	1	Pipe-Overflow
50	98-7671	2	Clip-Pipe
60	130-1410	3	Nozzle Holder Kit
65	121-2411	3	Nut
70	98-7676	3	Gasket
80	98-7677	3	Seal-Heat

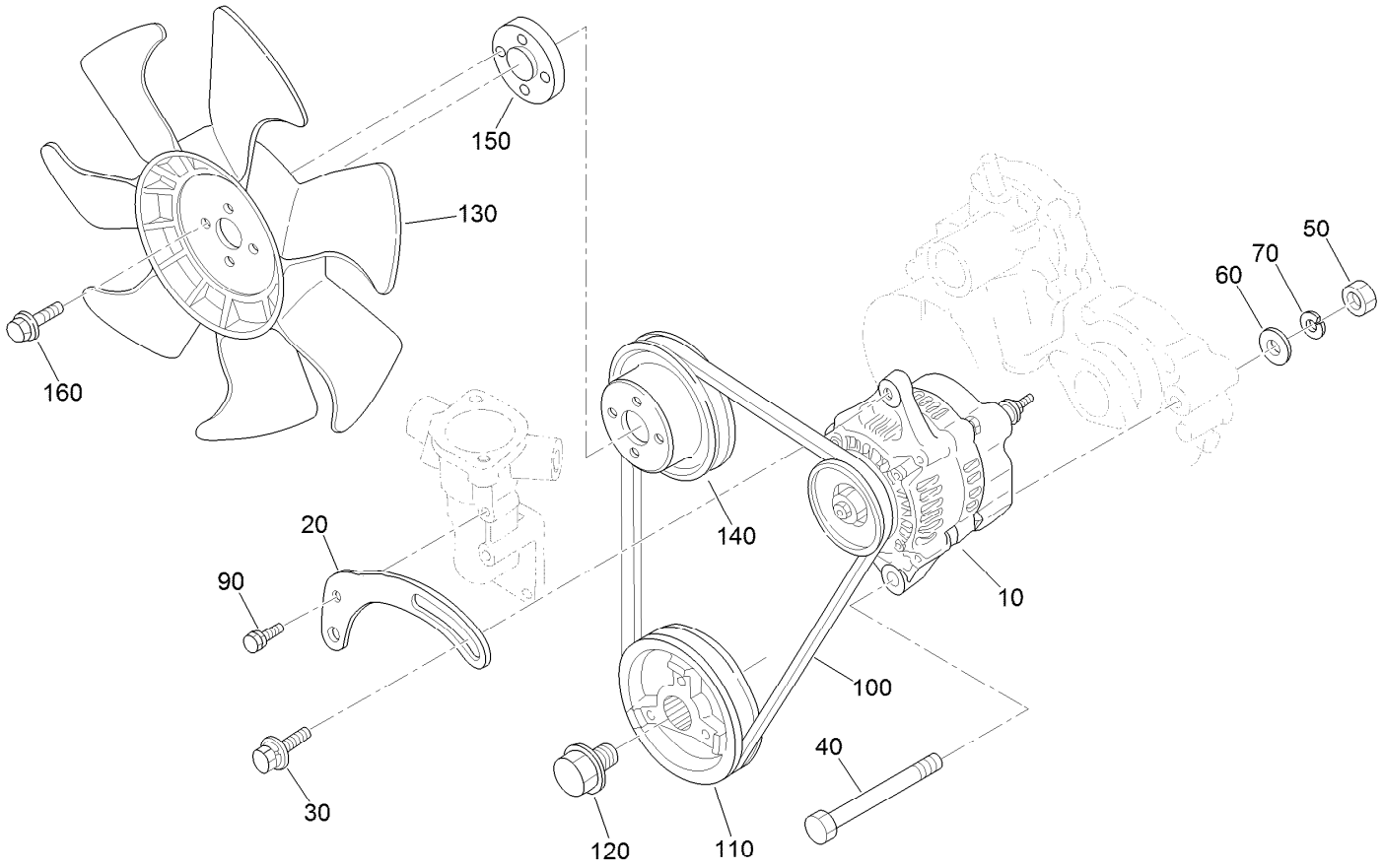
Ref.	Part Number	Qty.	Description
90	98-9653	1	Pipe-Injection
100	98-9654	1	Pipe-Injection
110	98-9655	1	Pipe-Injection
120	98-7682	2	Clamp-Pipe
130	98-7683	2	Clamp-Pipe
140	98-7684	2	Screw (W/Washer)
150	130-1411	3	Plug-Glow
160	98-9631	1	Cord-Plug, Glow
170	99-8377	3	Nut-Flange



Nozzle Holder Assembly

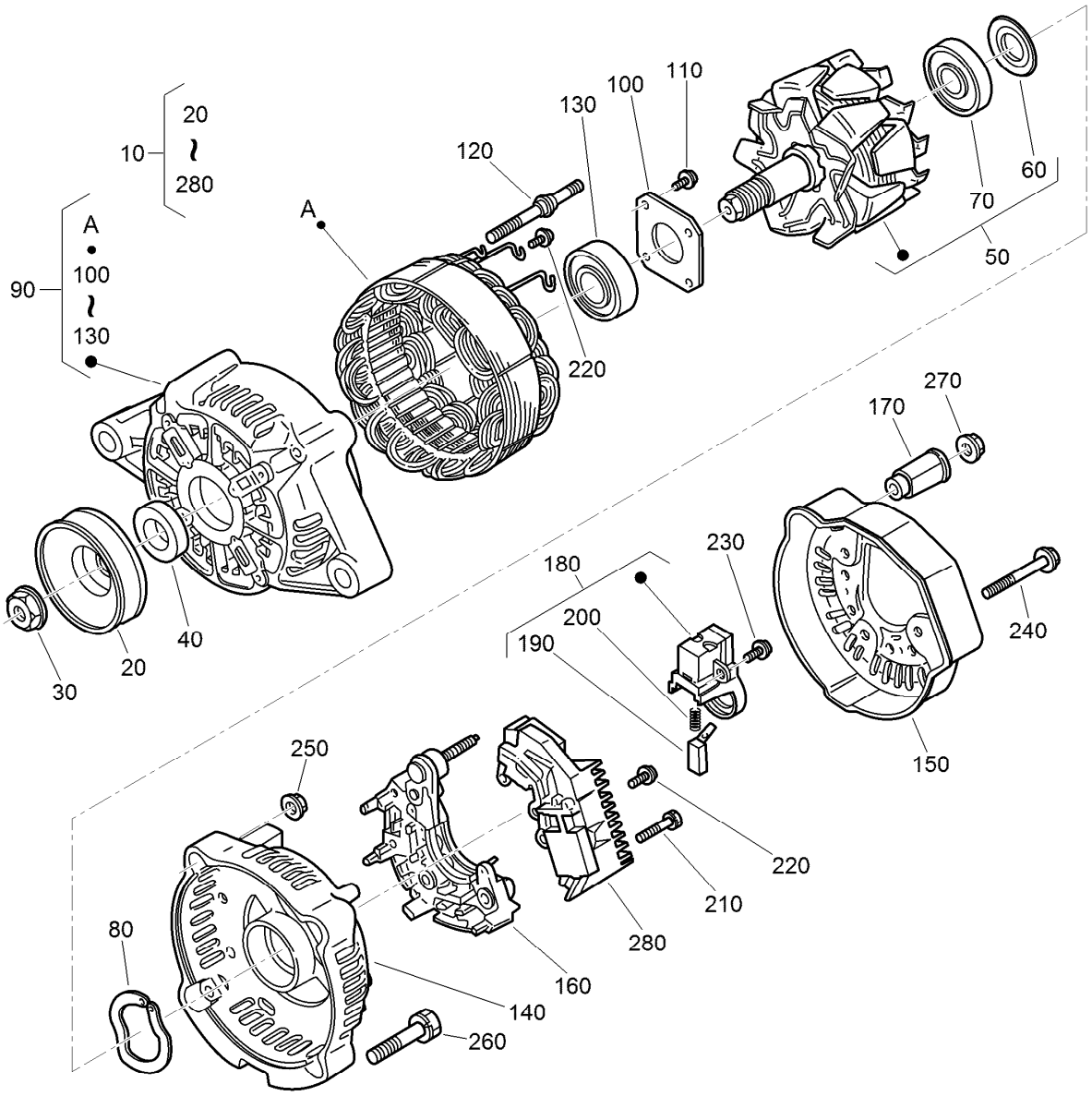
Ref.	Part Number	Qty.	Description
10	130-1410	3	Nozzle Holder Kit
20	121-2411	3	Nut
30	99-8302	3	Washer-Adjusting
40	99-8303	3	Spring-Nozzle
50	99-8304	3	Spacer-Distance
60	99-8305	3	Rod-Push
70	99-8306	3	Nut-Nozzle
80	99-8307	3	Washer-Plain
90	115-3020	3	Piece-Nozzle
100	99-8309	3	Adjusting Washer ASM
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

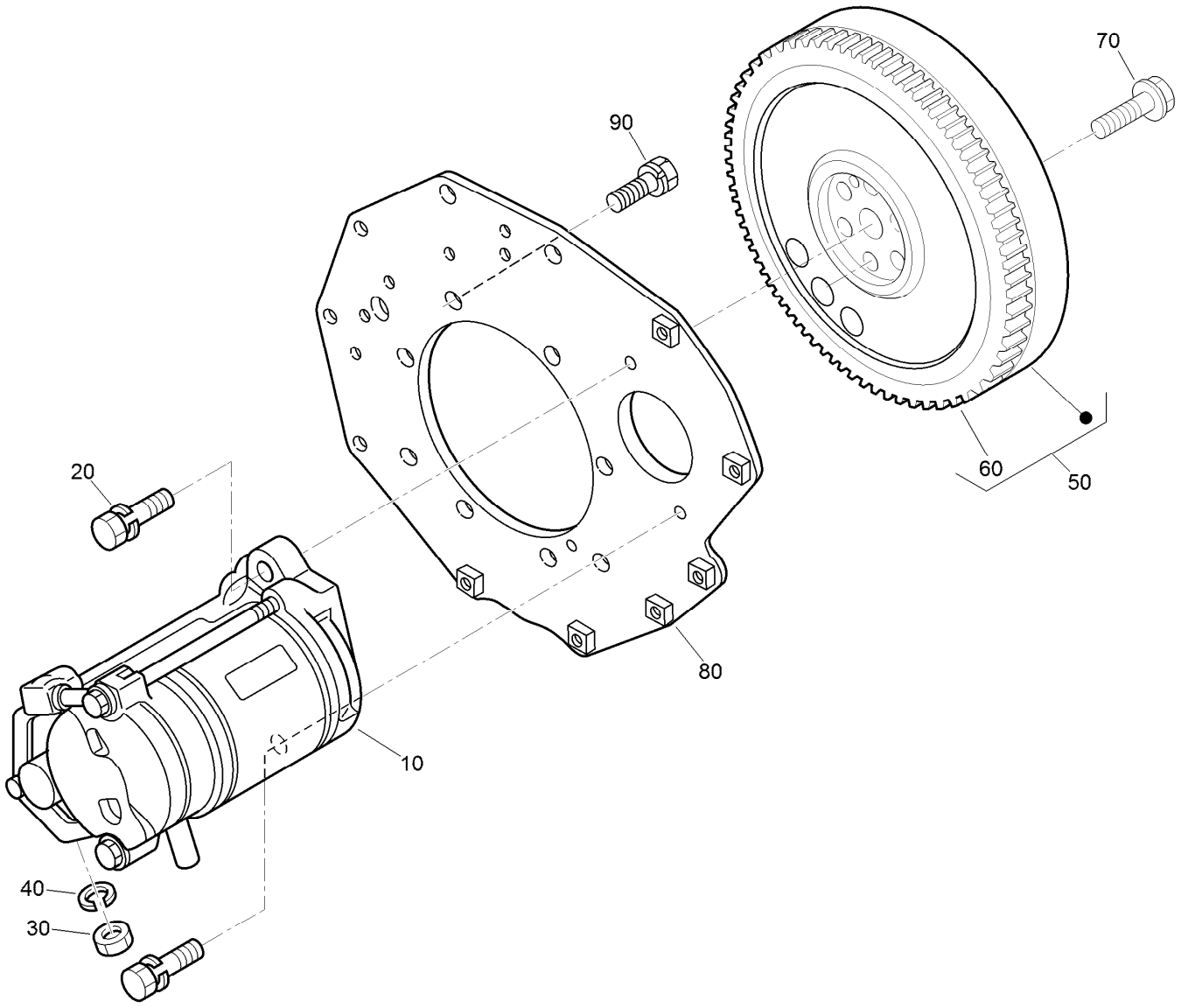
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9474	1	Alternator ASM
20	112-7047	1	Stay-Dynamo
30	108-7088	1	Bolt
40	98-9360	1	Bolt
50	98-7737	1	Nut
60	98-9366	1	Washer-Plain
70	98-7738	1	Washer-Spring
90	98-7692	1	Bolt
100	98-9676	1	V-Belt
110	98-9473	1	Pulley-Drive, Fan
120	98-9585	1	Bolt
130	104-4246	1	Fan-Engine
140	110-0972	1	Pulley
150	108-2872	1	Collar-Fan
160	108-2873	4	Bolt-Flange



Alternator Components Assembly

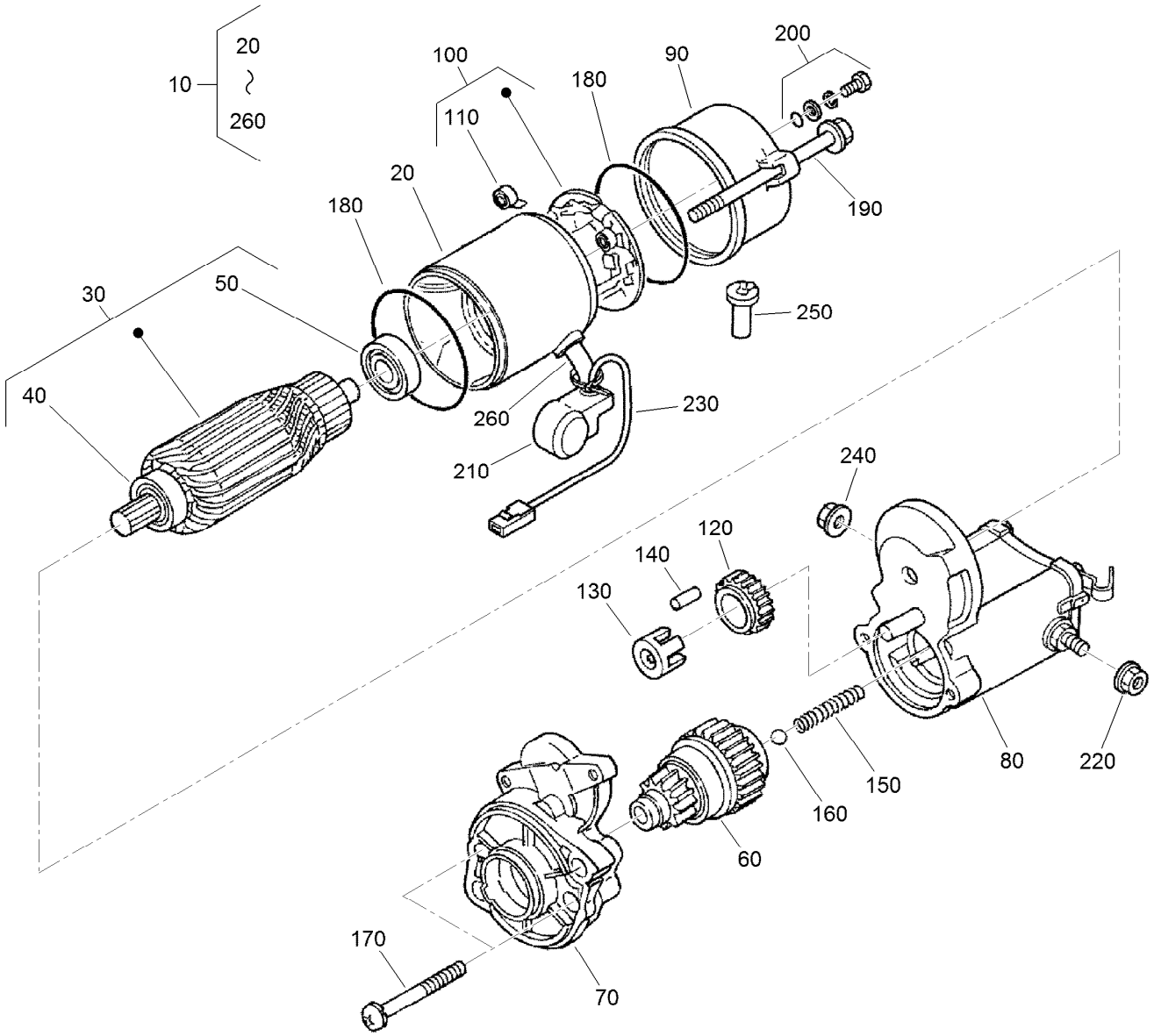
Ref.	Part Number	Qty.	Description
10	98-9474	1	Alternator ASM
20	98-9453	1	Pulley-Dynamo
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	98-7716	4	Screw-Head, Round
120	98-7717	2	Bolt-Through
130	107-0137	1	Bearing-Ball
140	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	110-3799	1	Regulator ASM



Starter and Flywheel Assembly

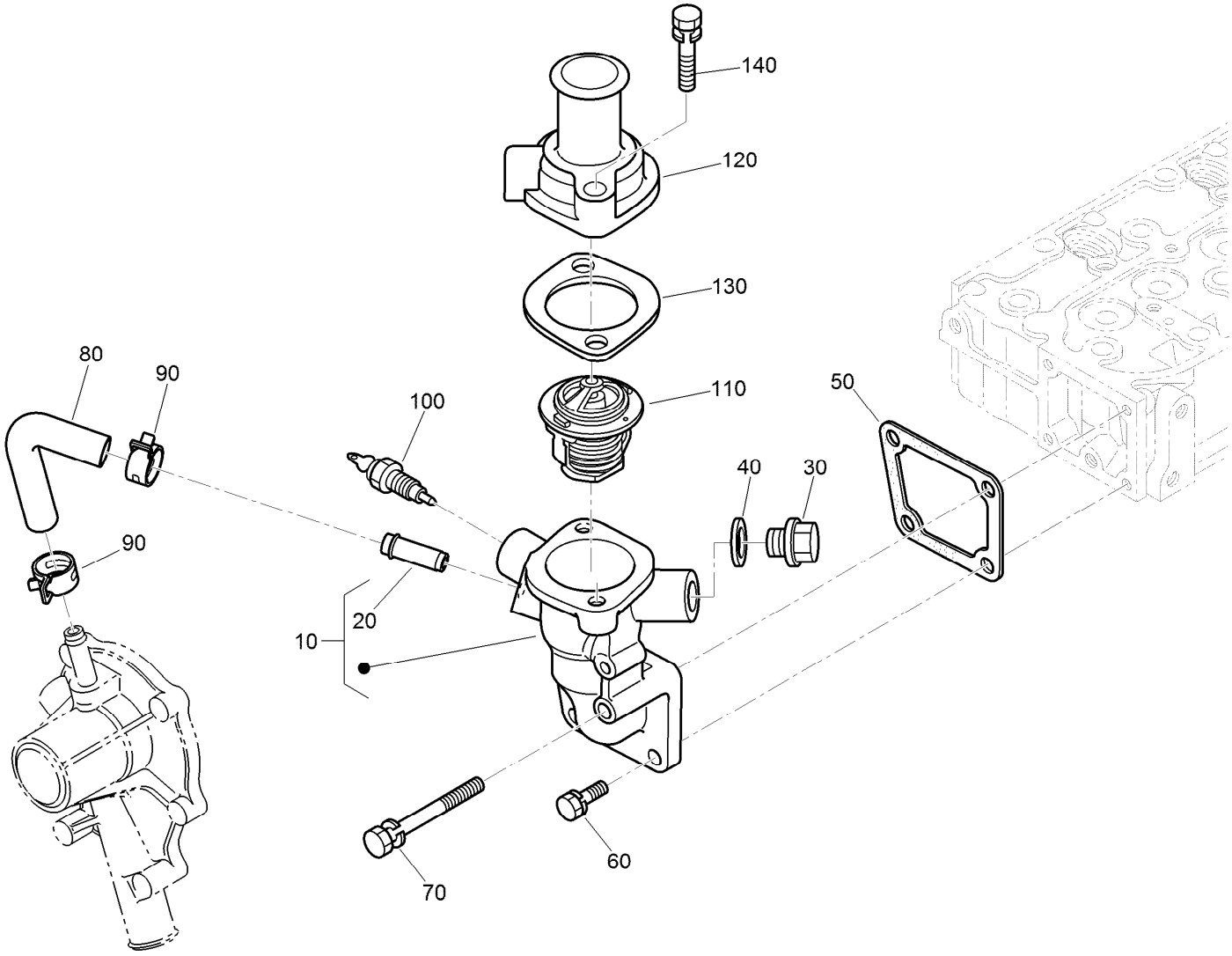
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9705	1	Starter ASM
20	98-7697	2	Bolt
30	98-7739	1	Nut
40	105-2893	1	Washer-Spring
50	105-3784	1	Flywheel ASM
60	115-3015	1	Gear-Ring
70	98-9537	6	Bolt-Flywheel
80	98-9486	1	Plate-End, Rear
90	98-9392	8	Bolt



Starter Component Assembly

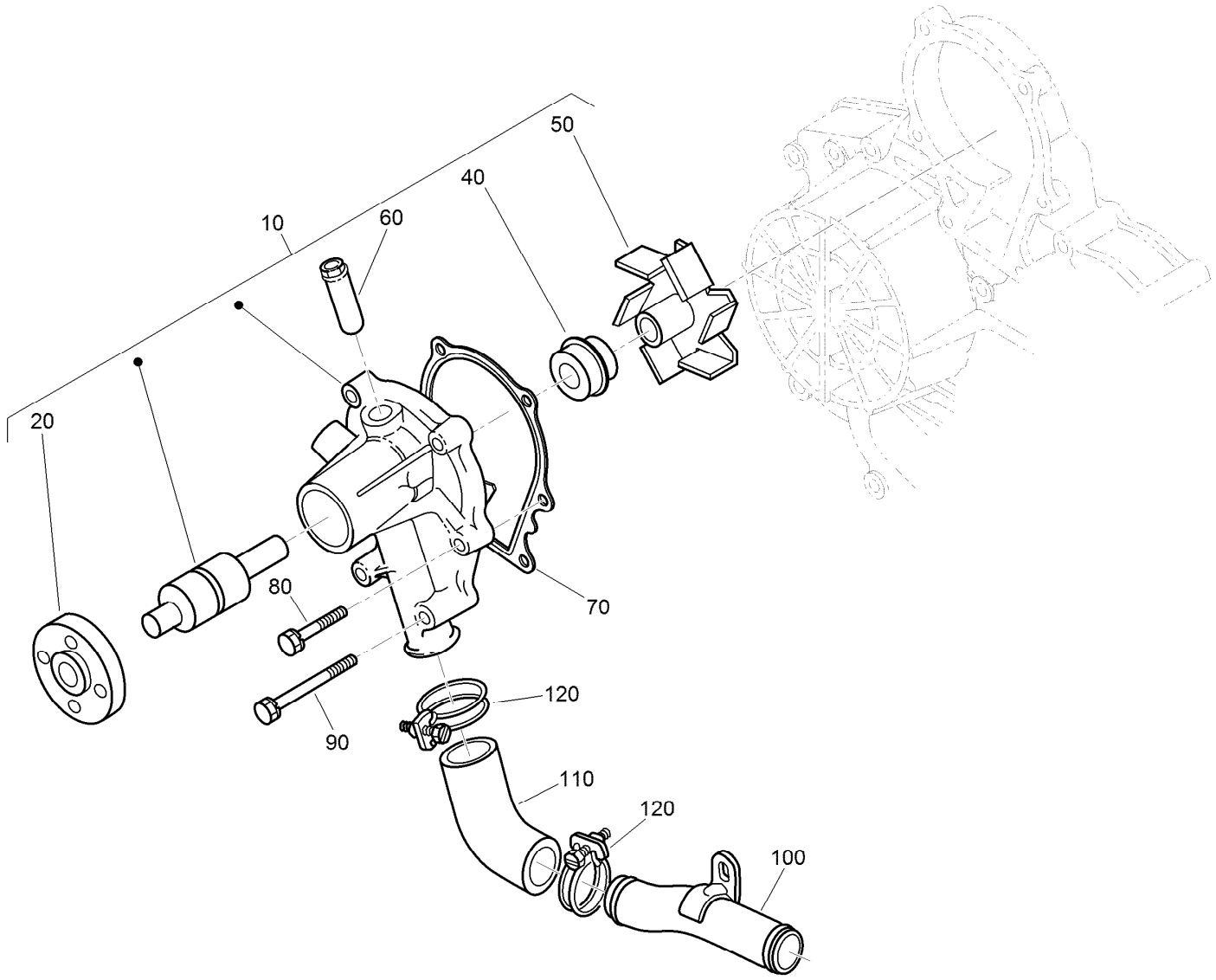
Ref.	Part Number	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear
130	98-7752	1	Retainer

Ref.	Part Number	Qty.	Description
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



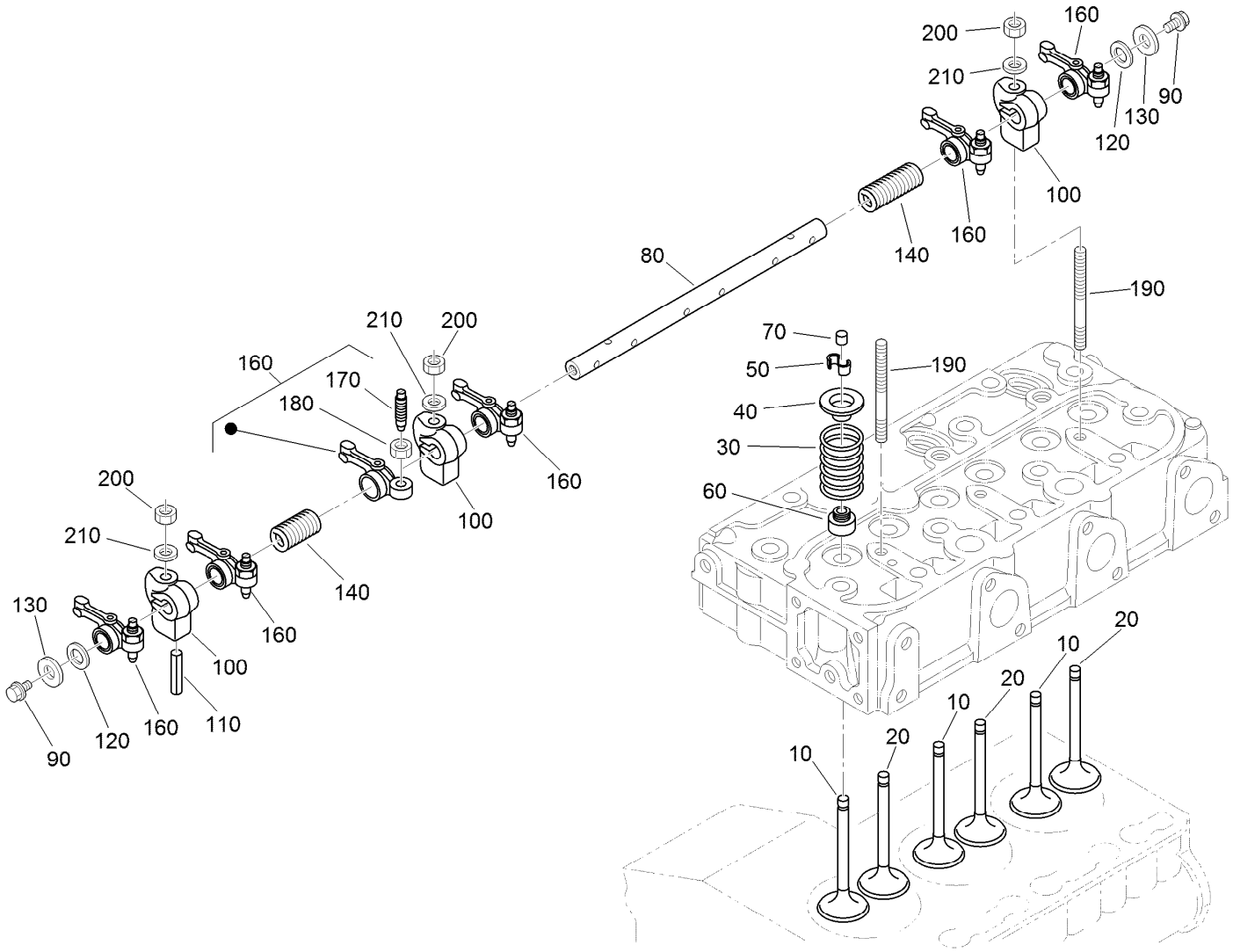
Water Flange and Thermostat Assembly

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	112-0183	1	Switch-Thermometer
110	98-7778	1	Thermostat ASM
120	98-9471	1	Cover-Thermostat
130	105-3748	1	Gasket-Thermostat
140	98-7777	2	Bolt



Water Pump and Water Pipe Assembly

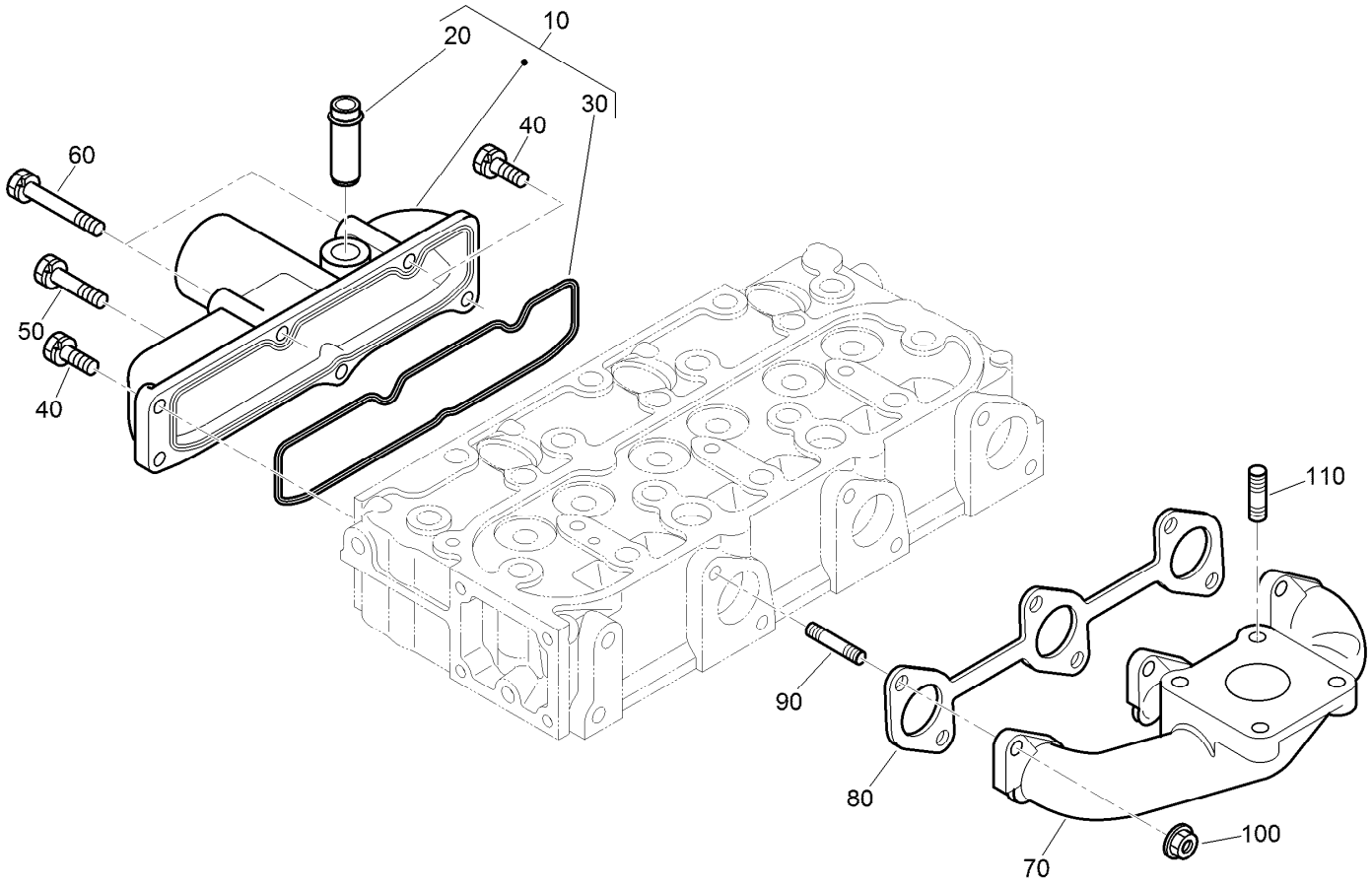
Ref.	*Part Number*	*Qty.*	*Description*
10	107-9089	1	Water Pump ASM
20	99-3516	1	Flange-Pump, Water
40	105-3750	1	Mechanical Seal ASM
50	112-7017	1	Impeller-Pump, Water
60	100-1932	1	Pipe-Return, Water
70	99-3454	1	Gasket-Pump, Water
80	98-9353	4	Bolt
90	107-9090	2	Bolt
100	98-9716	1	Pipe-Water
110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



Valve and Rocker Arm Assembly

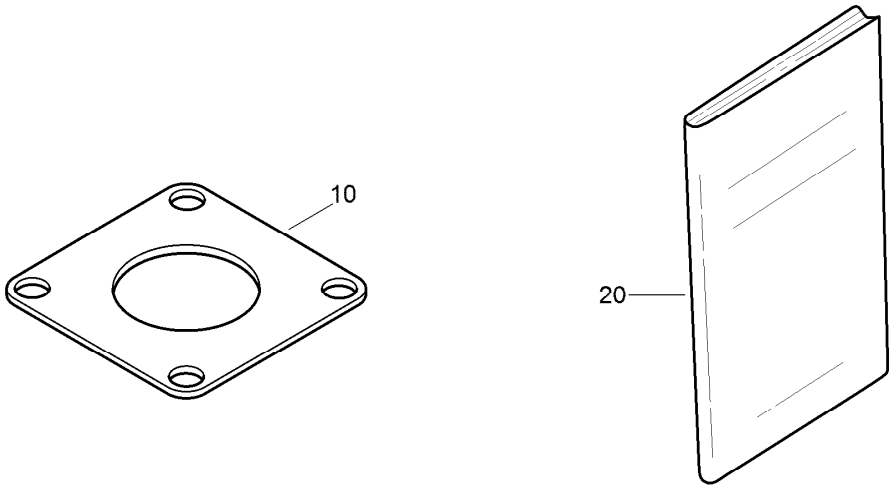
Ref.	Part Number	Qty.	Description
10	112-7018	3	Valve-Inlet
20	120-2564	3	Valve-Exhaust
30	98-9648	6	Spring-Valve
40	107-9092	6	Retainer-Spring
50	117-7572	6	Collet-Spring, Valve
60	99-8385	6	Seal-Stem, Valve
70	98-9497	6	Cap-Valve
80	130-1248	1	Shaft-Arm, Rocker
90	99-8363	2	Bolt-Flange
100	98-9505	3	Bracket-Arm, Rocker

Ref.	Part Number	Qty.	Description
110	105-3758	1	Pin-Spring
120	98-9507	2	Washer-Shaft, R-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	98-9393	3	Nut
210	98-9385	3	Washer-Flat



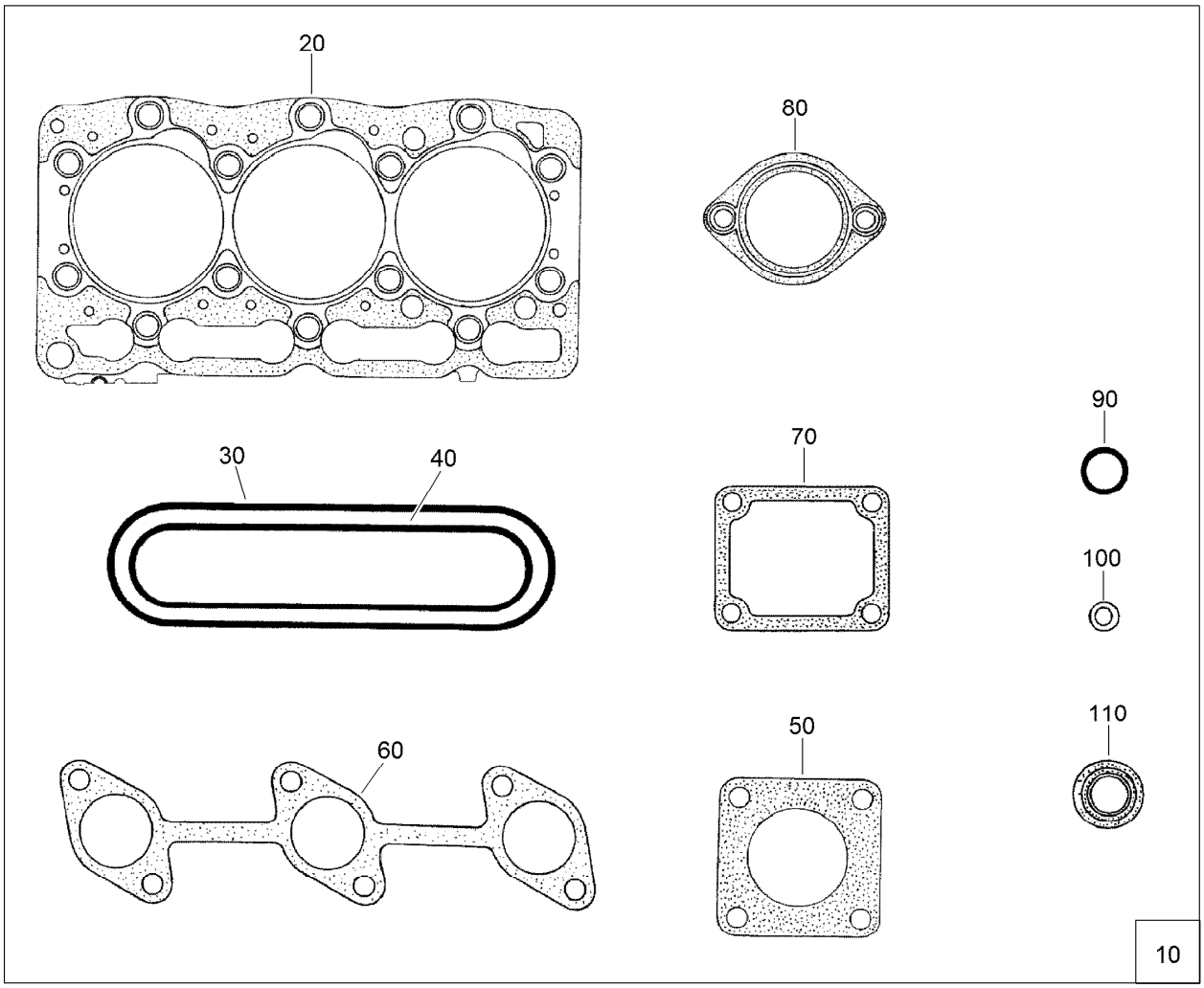
Inlet and Exhaust Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-6577	1	Inlet Manifold 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



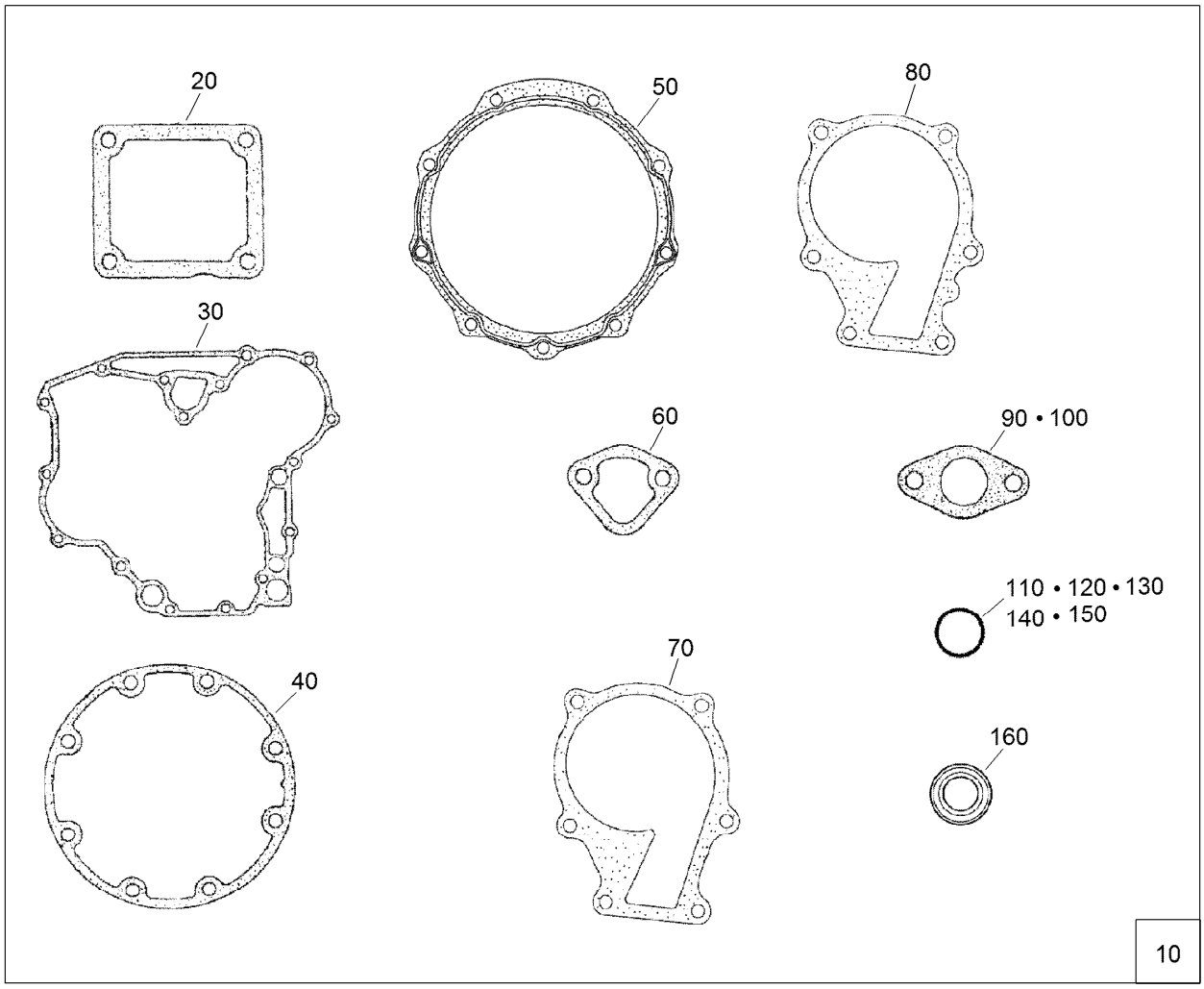
Miscellaneous Engine Parts

Ref.	*Part Number*	*Qty.*	*Description*
10	99-8343	1	Gasket-Muffler
20	130-1543	1	Operator Manual



Upper Engine Gasket Kit

Ref.	*Part Number*	*Qty.*	*Description*
10	130-1363	1	Upper Gasket Kit
20	108-6573	1	Gasket-Head, Cylinder
30	130-1249	1	Gasket-Head Cover
40	98-9609	1	Gasket-Manifold, Inlet
50	99-8343	1	Gasket-Muffler
60	99-8327	1	Gasket-Manifold, Exhaust
70	98-9638	1	Gasket-Flange, Water
80	105-3748	1	Gasket-Thermostat
90	99-3446	2	O-Ring
100	98-9454	3	Gasket
110	99-8385	6	Seal-Stem, Valve



Lower Engine Gasket Kit

Ref.	Part Number	Qty.	Description
10	130-1364	1	Lower Gasket Kit
20	98-9637	1	Gasket
30	98-9633	1	Gasket-Case, Gear
40	127-0440	1	Gasket-Case, Bearing
50	112-7037	1	Gasket-Cover, Case
60	117-7562	1	Gasket-Pump, Fuel
70	98-9632	1	Gasket-Pump, Water
80	99-3454	1	Gasket-Pump, Water

Ref.	Part Number	Qty.	Description
90	98-9682	1	Gasket
100	98-9683	1	Gasket-Cover, Solenoid
110	105-3781	2	O-Ring
120	105-3777	2	O-Ring
130	105-3783	1	O-Ring
140	105-3776	1	O-Ring
150	105-3788	1	O-Ring
160	98-7601	1	Seal-Oil

Attachments and Accessories

For 31229 Groundsmaster 360 2-Wheel Drive Multi-Purpose Machine

Product Name	Model/Part
Green Diesel Cap	107-2172
Premium Transmission/Hydraulic Tractor Fluid (55 Gallon Drum)	108-1183
Premium Transmission/Hydraulic Tractor Fluid (5 Gallon Pail)	108-1184
Spark Arrestor	117-3281
Premium Engine Oil 15w40 (55 Gallon Drum)	121-6394
Premium Engine Oil 15w40 (5 Gallon Pail)	121-6395
5in Air Cleaner Safety Element	114-4057
400-hour Filter Maintenance Kit	30052
Speed Reduction Kit	30547
Beacon Kit	120-0256
Electrical Accessory Kit	115-0019
Hourmeter, Wireless Hourmeter System	115-4754
Registration Plate Kit	120-6678
Jack Stand Kit	30579
Differential Lock (2 Wheel Drive)	30508
Blade-Belt Kit, 72in Side Discharge Deck	105-7272
Atomic Blade Kit (3 Blade Pack)	119-8020
Blade-Rotary, Atomic (24.5in)	110-0624-03
Blade-Rotary, Medium Flow (24.5in)	110-0621-03
Leaf Mulching Kit	108-5273
High Flow Blade Kit (3 Blade Pack)	119-8021
Blade-Rotary, High Flow (24.5in)	110-0622-03
Road Homologation Light Kit, Non-Cab Unit (Europe)	30512
Road Light Kit, Non Cab Unit (North America)	30513
Slow Moving Vehicle Sign Kit	115-0014
Locking Latch	98-9315
Grammer Seat with Air Ride Suspension	30511
Vinyl Backrest Extension Kit	120-0583
Hardtop Sunshade	30359

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Count on it.