Form No. 3378-852 Rev A

TORO®

Count on it.

Parts Catalog

Groundsmaster® 4300-D Traction Unit

Model No. 30859—Serial No. 313000001 and Up

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

CE

3378-852 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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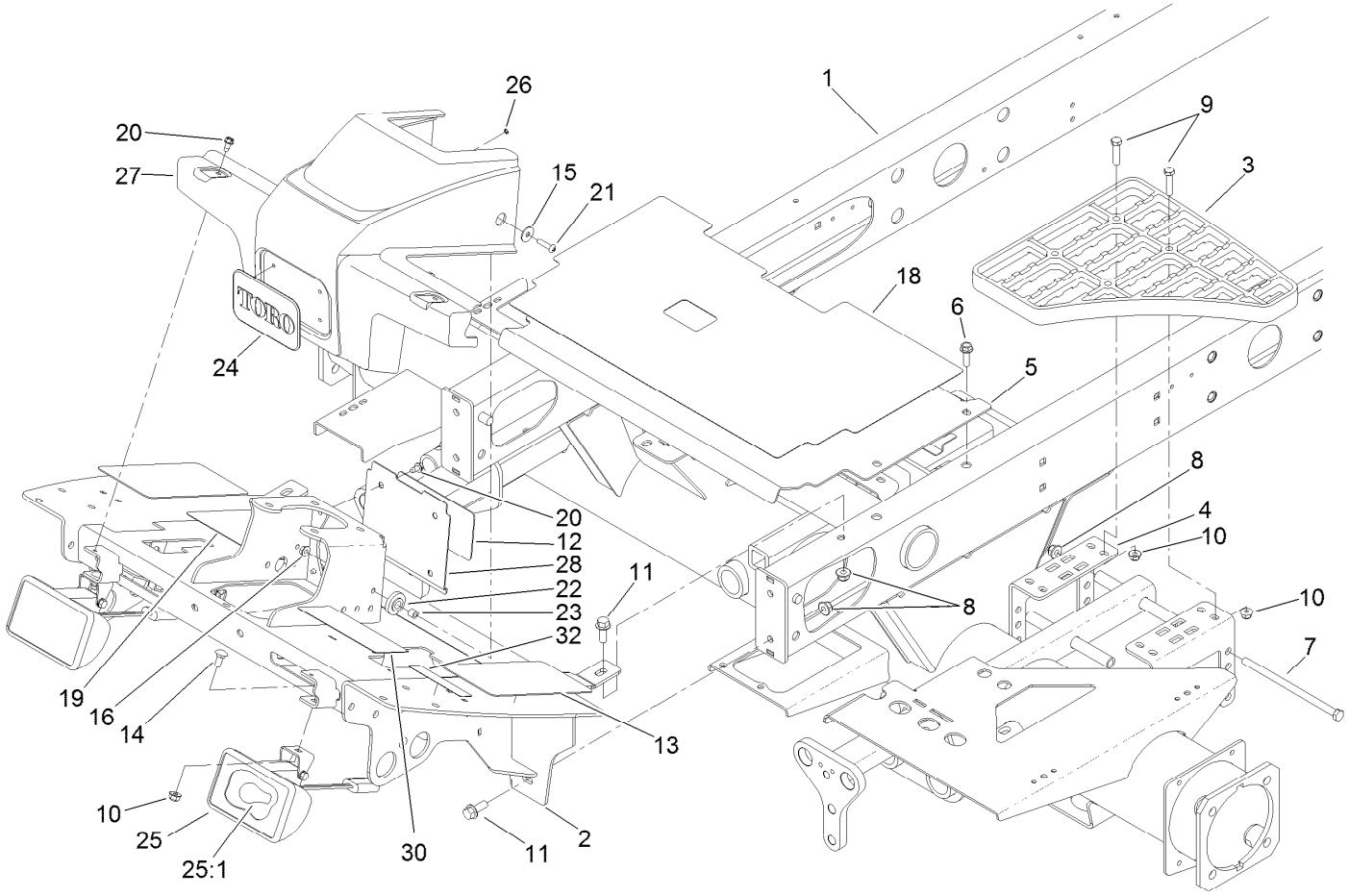
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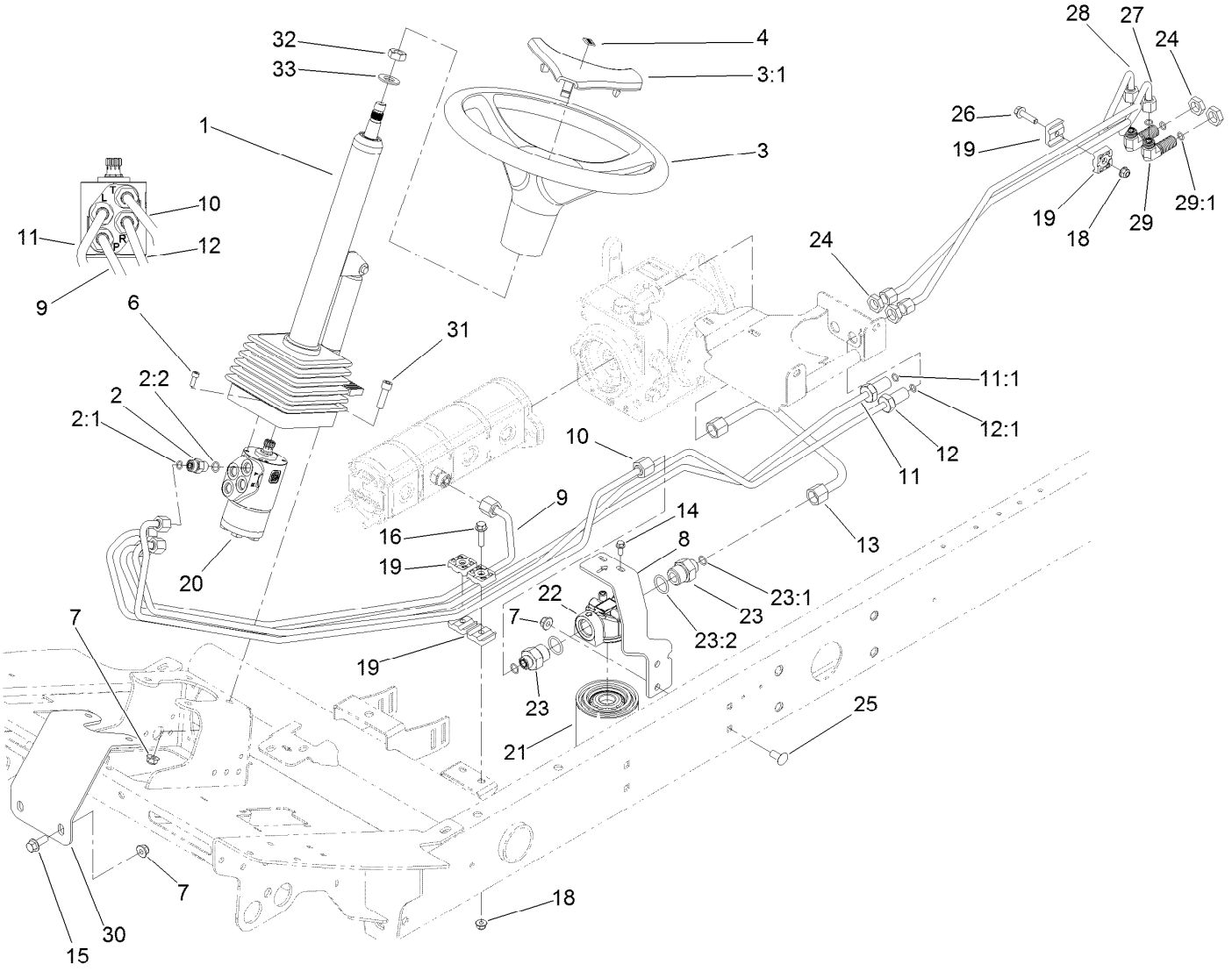
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Front Frame Assembly

Ref.	Part Number	Qty.	Description
1	114-0388	1	Frame ASM
2	117-0161-01	1	Platform
3	110-9041	2	Step-Aluminum
4	117-5161-01	4	Bracket-Step
5	115-8064-01	1	Plate-Floor
6	3234-17	4	Screw-HHF
7	323-36	4	Screw-HH
8	104-8301	8	Nut-Flange, NI
9	322-17	8	Screw-HH
10	104-8300	10	Nut-Flange, NI
11	3234-11	4	Screw-HHF
12	110-0986	1	Decal-Plate, Cover
13	110-0988	2	Tread-Floor, Side
14	3230-1	2	Bolt-CARR
15	87-6630	2	Washer-Plain
16	32128-33	2	Nut-HF

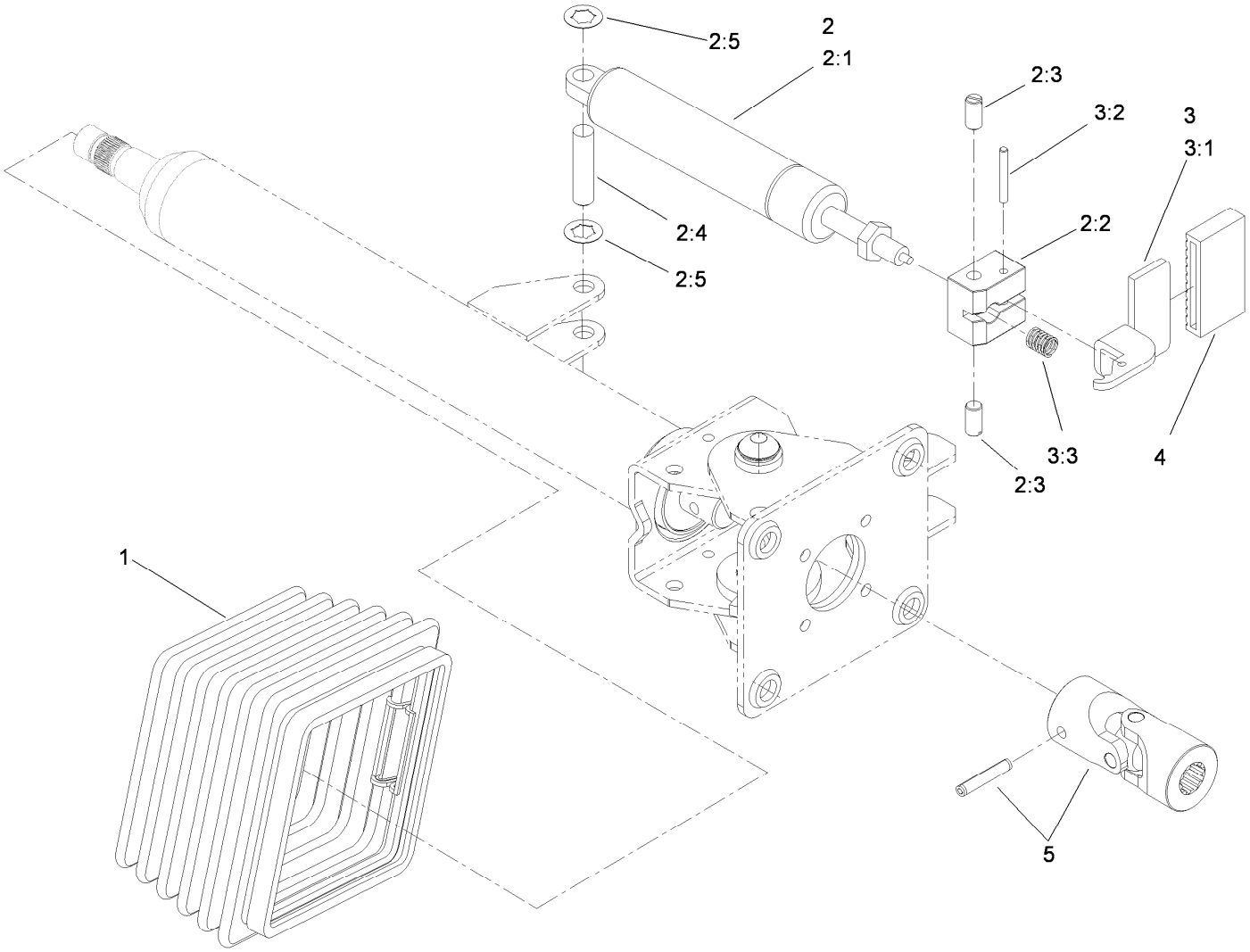
Ref.	Part Number	Qty.	Description
18	115-8065	1	Tread-Service Panel
19	108-1845	1	Tread-Board, Floor
20	32104-17	6	Screw-HWH
21	106-9518	2	Screw-PRH
22	240-11	2	Bushing-Flange
23	66-8010	2	Spacer-Hub, Impeller
24	93-6028	1	Plate-Logo
25	94-9024	2	Lamp ASM
25:1	95-0909	1	Lamp-12 Volt
26	3254-9	4	Washer-Lock, Internal
27	110-0944	1	Shroud-Platform
28	110-0947-03	1	Plate-Cover
30	110-8869	1	Decal-Danger
30	110-8973	1	Decal-Danger
32	117-2718	1	Decal-Arrester, Spark



Steering Valve Hydraulic Plumbing Assembly

Ref.	Part Number	Qty.	Description
1	106-3622	1	Steering Tilt Column ASM
2	340-2	4	Fitting-HYD, Straight
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	98-1471	1	Wheel-Steering
3:1	98-1468	1	Cover-Wheel, Steering
4	98-1459	1	Decal
6	105-2409	4	Screw-HSH
7	104-8301	8	Nut-Flange, NI
8	110-0906-01	1	Support-Filter, Oil
9	117-0167	1	Tube-HYD
10	108-1711	1	Tube-HYD
11	108-1712	1	Tube ASM
11:1	237-22	1	O-Ring
12	108-1713	1	Tube ASM
12:1	237-22	1	O-Ring
13	108-1714	1	Tube ASM
14	3234-33	2	Screw-HHF
15	3234-11	2	Screw-HHF
16	3234-36	2	Screw-HHF

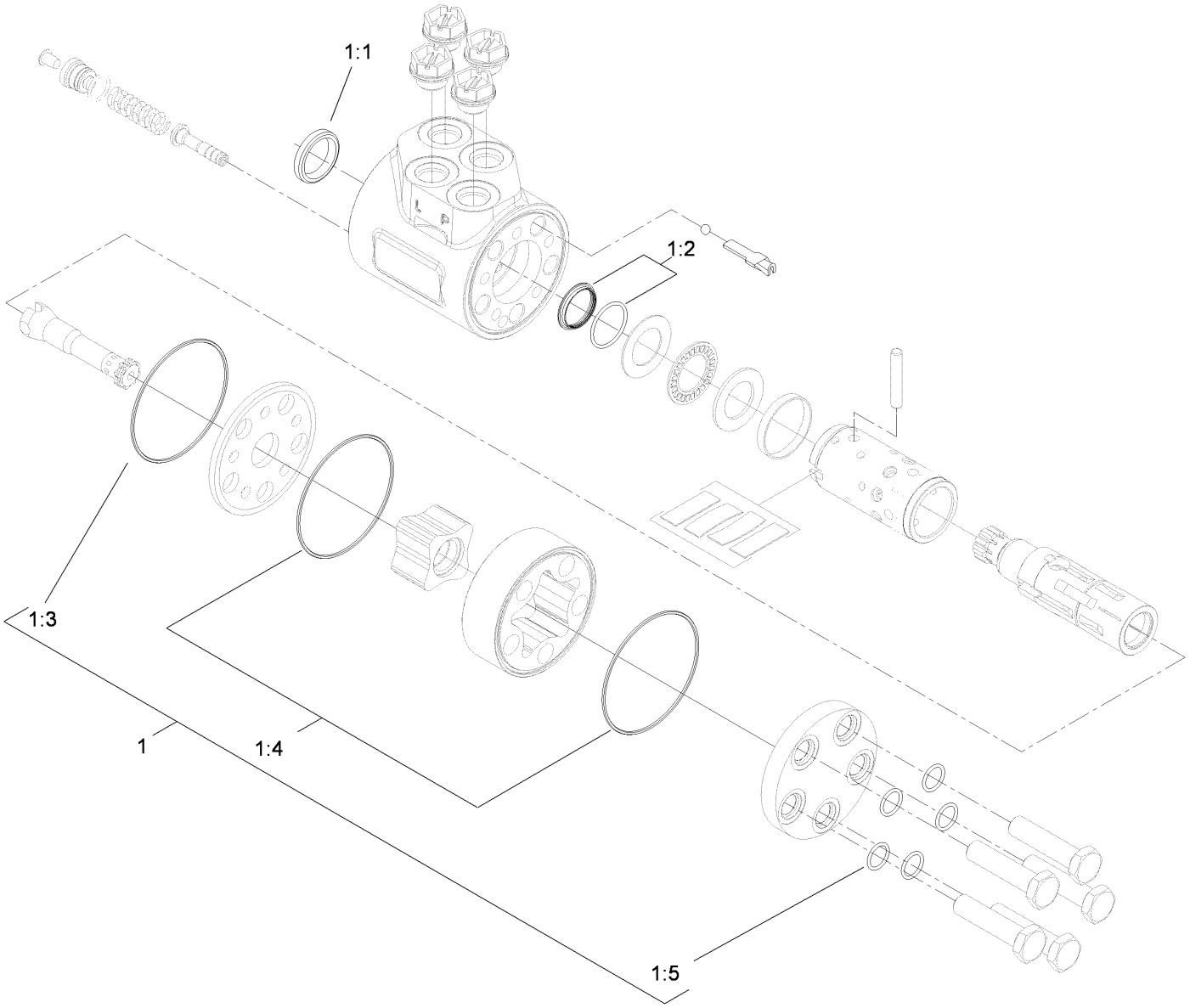
Ref.	Part Number	Qty.	Description
18	104-8300	3	Nut-Flange, NI
19	56-7973	6	Clamp-Tube
20	106-3621	1	Steering Valve ASM
21	86-3010	1	Filter-Oil
22	117-5820	1	Head-Filter
23	100-4240	2	Fitting-Adapter
23:1	237-30	1	O-Ring
23:2	237-81	1	O-Ring
24	340-70	4	Nut-Lock
25	3231-27	2	Screw-CARR
26	3234-36	1	Screw-HHF
27	110-9019	1	Tube-HYD
28	110-9020	1	Tube-HYD
29	340-154	2	Union-Bulkhead
29:1	237-22	2	O-Ring
30	110-8876-01	1	Brace-Column
31	3274-1	4	Screw-HSH
32	3296-33	1	Nut-Lock, NI
33	3256-27	1	Washer-Flat



Steering Tilt Column Assembly No. 106-3622

Ref.	*Part Number*	*Qty.*	*Description*
1	110-6462	1	Bellows-Rubber
2	110-6463	1	Cylinder Service Kit
2:1		1	Cylinder-Gas ●
2:2		1	Block-Pedal ●
2:3		2	Bolt ●
2:4		1	Pin ●
2:5		2	Washer-Lock ●
3	110-6464	1	Pedal Service Kit
3:1		1	Pedal ●
3:2		1	Pin ●
3:3		1	Spring ●
4	110-6465	1	Cover-Pedal
5	120-6256	1	Universal Joint Kit

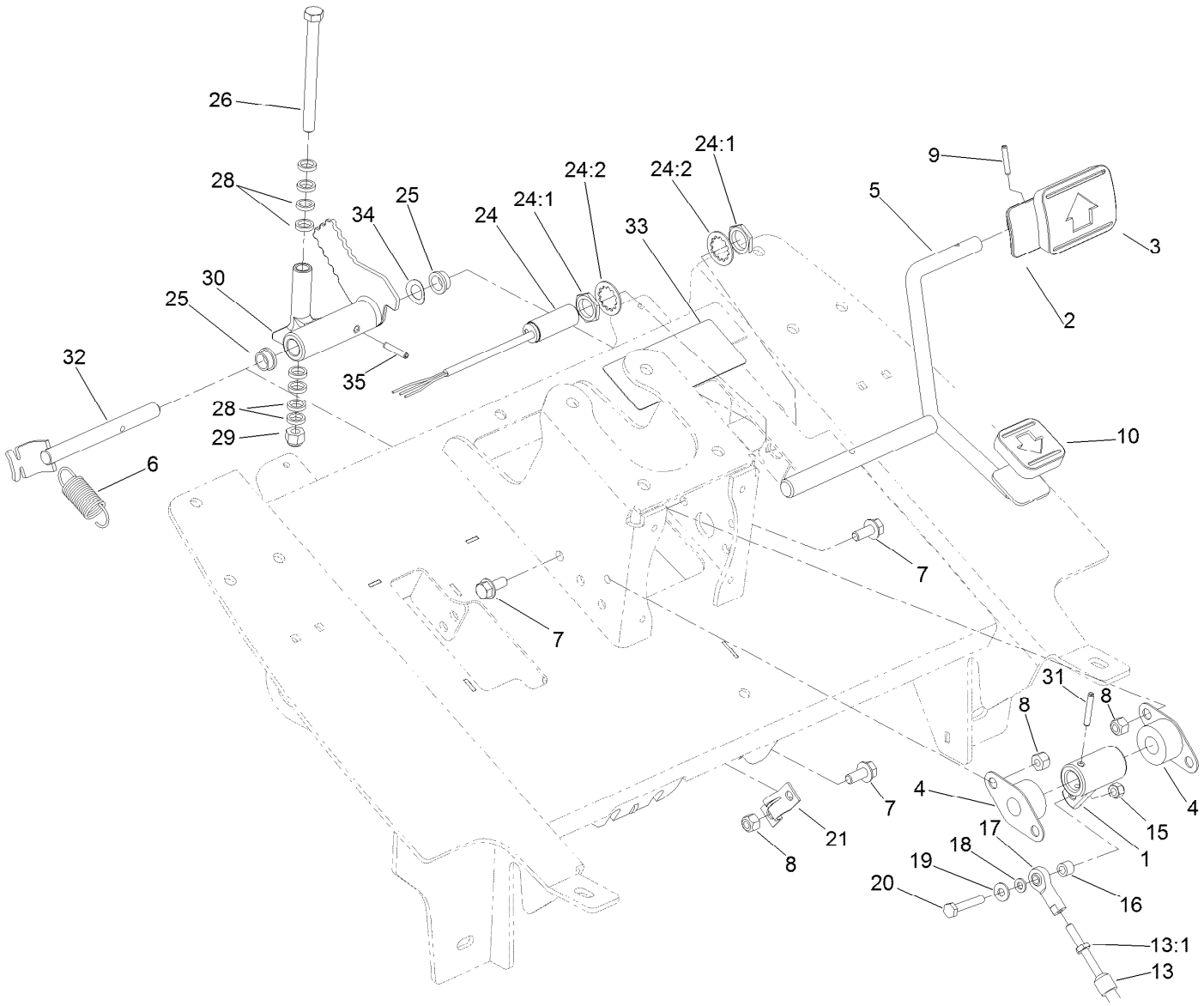
● Not serviced separately



Steering Valve Assembly No. 106-3621

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 ●

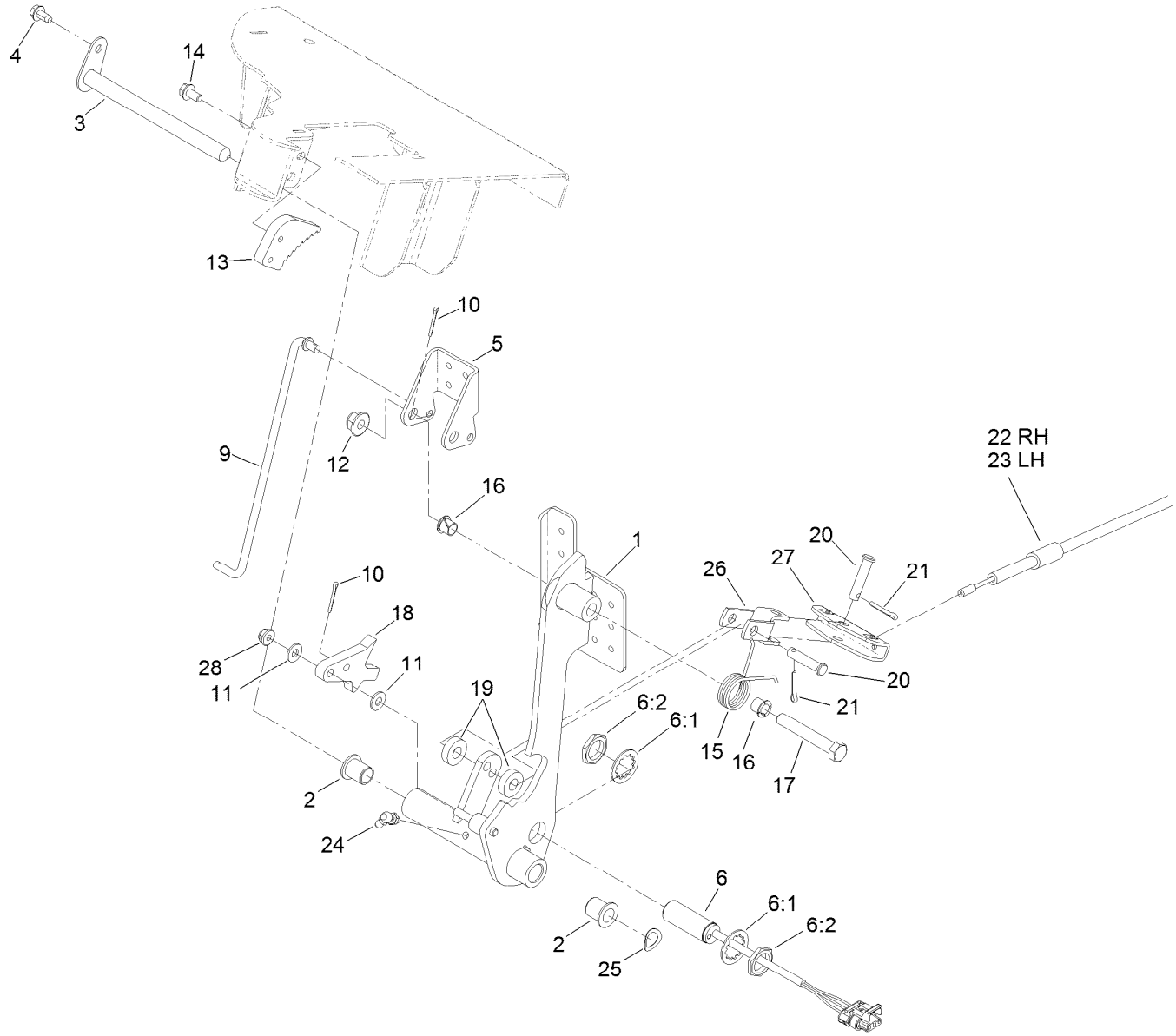
● Not serviced separately



Traction Pedal Assembly

Ref.	Part Number	Qty.	Description
1	117-5199	1	Hub-Traction Pedal
2	117-9507	1	Pedal-Accelerator
3	74-9100	1	Pad-Pedal, Forward
4	256-236	2	Bearing-Mount, Flange
5	106-3840	1	Pedal-Traction
6	92-7305	1	Spring-Extension
7	3234-5	6	Screw-HHF
8	3296-29	6	Nut-Lock, NI
9	32121-45	1	Pin-Spring
10	74-9110	1	Pad-Pedal, Reverse
13	107-2084	1	Traction Cable ASM
13:1	3220-1	2	Nut-Jam
15	3296-42	1	Nut-Lock, NI
16	66-8010	1	Spacer-Hub, Impeller
17	2411-41	1	Rod End-Ball Joint
18	33093-00	1	Washer-Flat

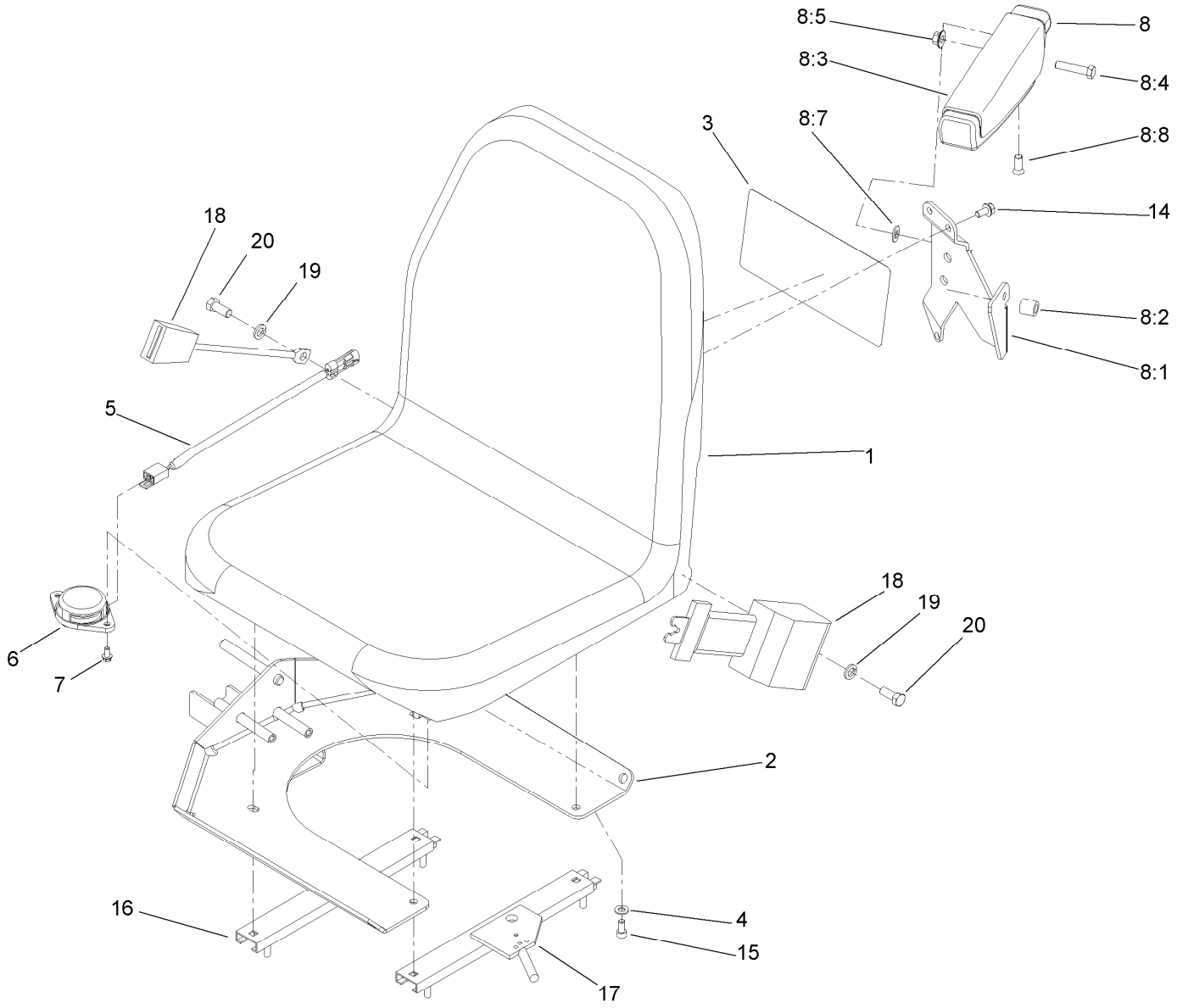
Ref.	Part Number	Qty.	Description
19	3256-22	1	Washer-Flat
20	321-9	1	Screw-HH
21	93-2092	1	Clamp-Cable
24	115-0282	1	Sensor-Proximity
24:1	117-3207	2	Nut-Hex
24:2	117-3208	2	Washer-Lock, Internal Tooth
25	256-156	2	Bushing-Flange
26	323-17	1	Screw-HH
28	62-4420	8	Washer
29	3296-39	1	Nut-Lock, NI
30	117-8066	1	Mow-Stop
31	32121-6	1	Pin-Roll, Slotted
32	106-3731	1	Rod-Pivot
33	110-8921	1	Decal-Speed, Mow
34	110-8982	1	Washer-Spring
35	32121-16	1	Pin-Spring



Brake Pedal Assembly

Ref.	Part Number	Qty.	Description
1	115-0120-03	1	Pedal-Brake
2	256-155	2	Bushing-Flange
3	104-7179	1	Pivot-Pedal
4	12-3270	1	Screw
5	99-7963-03	1	Pedal-Park
6	115-5300	1	Proximity Switch ASM
6:1	117-3207	2	Nut-Hex
6:2	117-3208	2	Washer-Lock, Internal Tooth
9	115-0129	1	Rod-Pawl, Brake
10	3272-6	2	Pin-Cotter
11	3256-22	2	Washer-Flat
12	104-8301	1	Nut-Flange, NI
13	99-7214	1	Pawl-Brake
14	3234-13	2	Screw-HHF

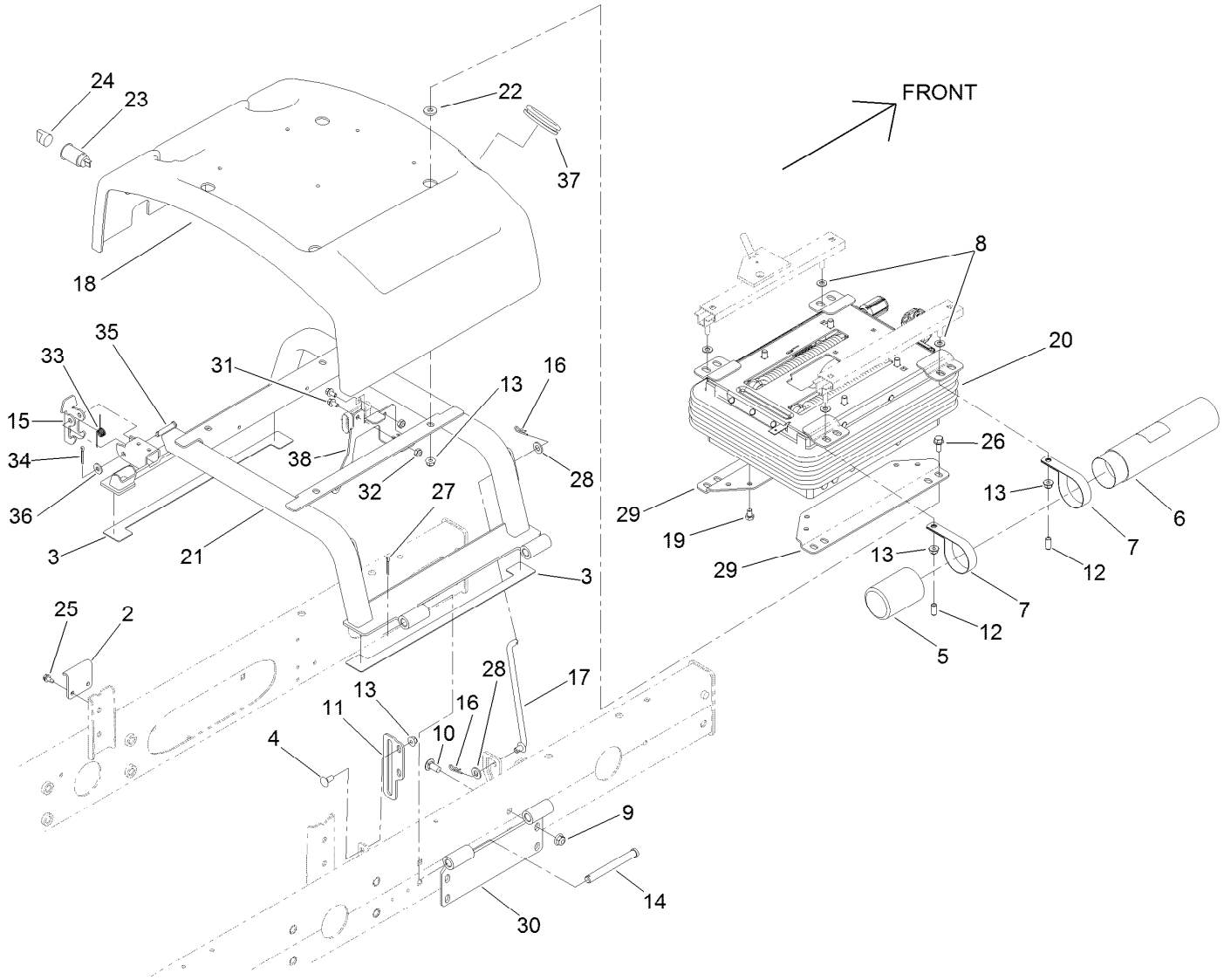
Ref.	Part Number	Qty.	Description
15	99-7140	1	Spring-Torsion
16	52-2891	2	Bushing-Flanged, Nylon
17	323-12	1	Screw-HH
18	117-0238	1	Detent
19	5-0652	2	Spacer
20	283-14	2	Pin-Clevis
21	3272-10	2	Pin-Cotter
22	117-0106	1	Cable-Brake, RH
23	117-0107	1	Cable-Brake, LH
24	302-60	1	Fitting-Grease
25	110-8982	1	Washer-Spring
26	115-8060	1	Clevis-Double
27	115-8059	1	Yoke-Cable
28	104-7201	1	Nut-HF



Seat and Armrest Assembly

Ref.	Part Number	Qty.	Description
1	104-4620	1	Seat
2	108-7591-03	1	Mount-Seat / Control
3	117-0168	1	Decal-Service
4	3256-23	4	Washer-Flat
5	108-8657	1	Harness-Wire, Seat
6	92-6282	1	Switch-Seat
7	9266714	2	Screw-HWH
8	92-7307	1	LH Armrest ASM
8:1	69-0760	1	Bracket-Arm, LH
8:2	92-7301	1	Spacer
8:3	69-1180	1	Armrest

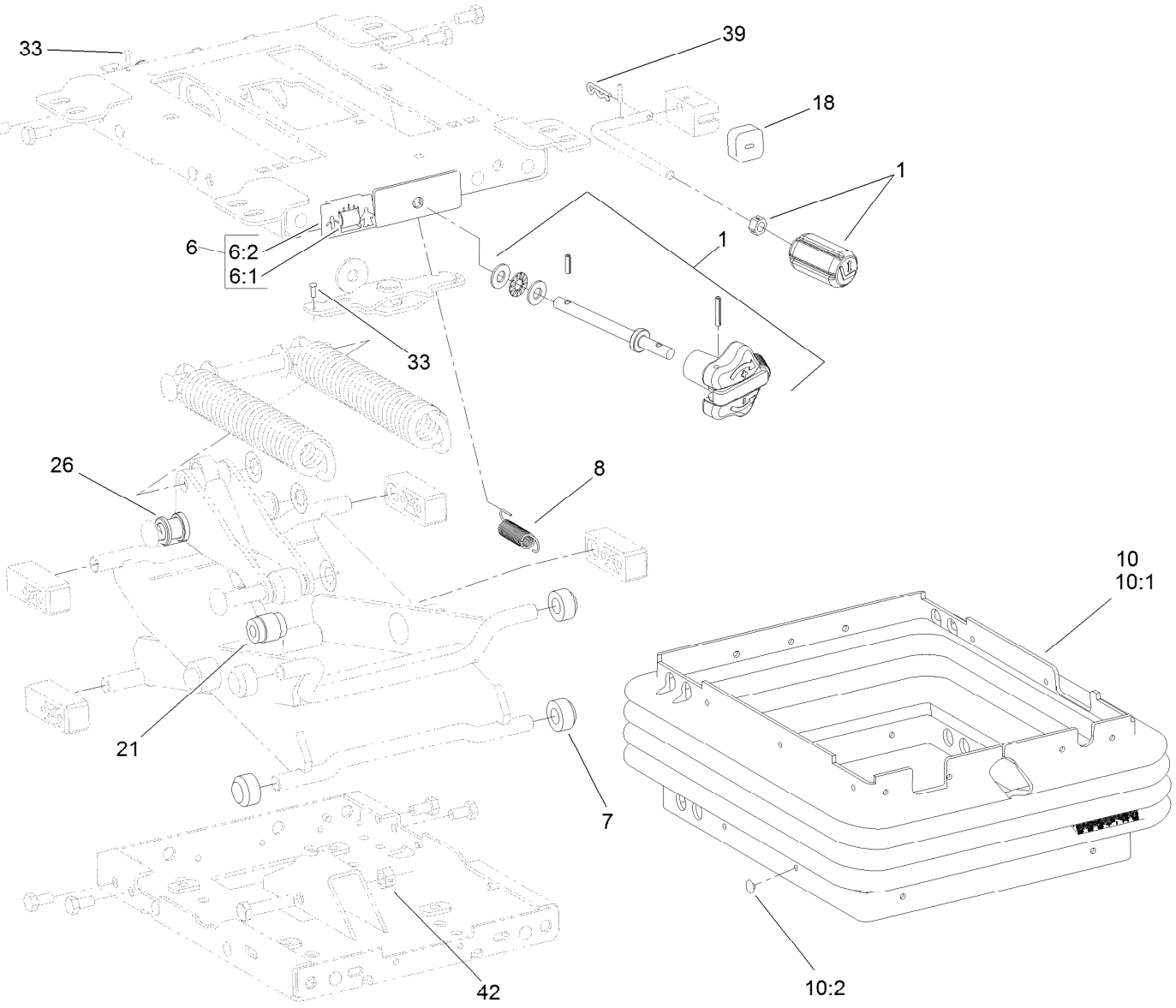
Ref.	Part Number	Qty.	Description
8:4	323-9	1	Screw-HH
8:5	32128-19	1	Nut-HF
8:7	3256-24	1	Washer-Flat
8:8	92-7318	1	Screw
14	3234-14	3	Screw-HHF
15	3274-12	4	Screw-HSH
16	92-8990	1	Adjuster-Slave
17	92-8991	1	Adjuster (W/Latch)
18	100-4928	1	Belt-Seat
19	3253-6	2	Washer-Lock
20	3212-4	2	Screw-HH



Seat Base and Suspension Assembly

Ref.	Part Number	Qty.	Description
2	110-8972	1	Hook-Latch
3	110-5255	2	Bumper-Base, Seat
4	3230-1	2	Bolt-CARR
5	104-7048	1	Cap-Housing
6	104-7050	1	Tube-Manual
7	2412-133	2	R-Clamp
8	3256-23	4	Washer-Flat
9	104-8301	4	Nut-Flange, NI
10	3231-27	4	Screw-CARR
11	108-7584-01	1	Plate-Guide, Rod
12	94-2782	4	Cap-Wire, Lite
13	104-8300	10	Nut-Flange, NI
14	283-83	2	Pin-Clevis
15	110-8971	1	Latch
16	3290-307	4	Pin-Hair
17	98-0917	2	Rod-Prop
18	108-1757	1	Cover-Seatbase
19	48-7680	4	Screw-HH
20	110-8851	1	Mechanical Suspension ASM

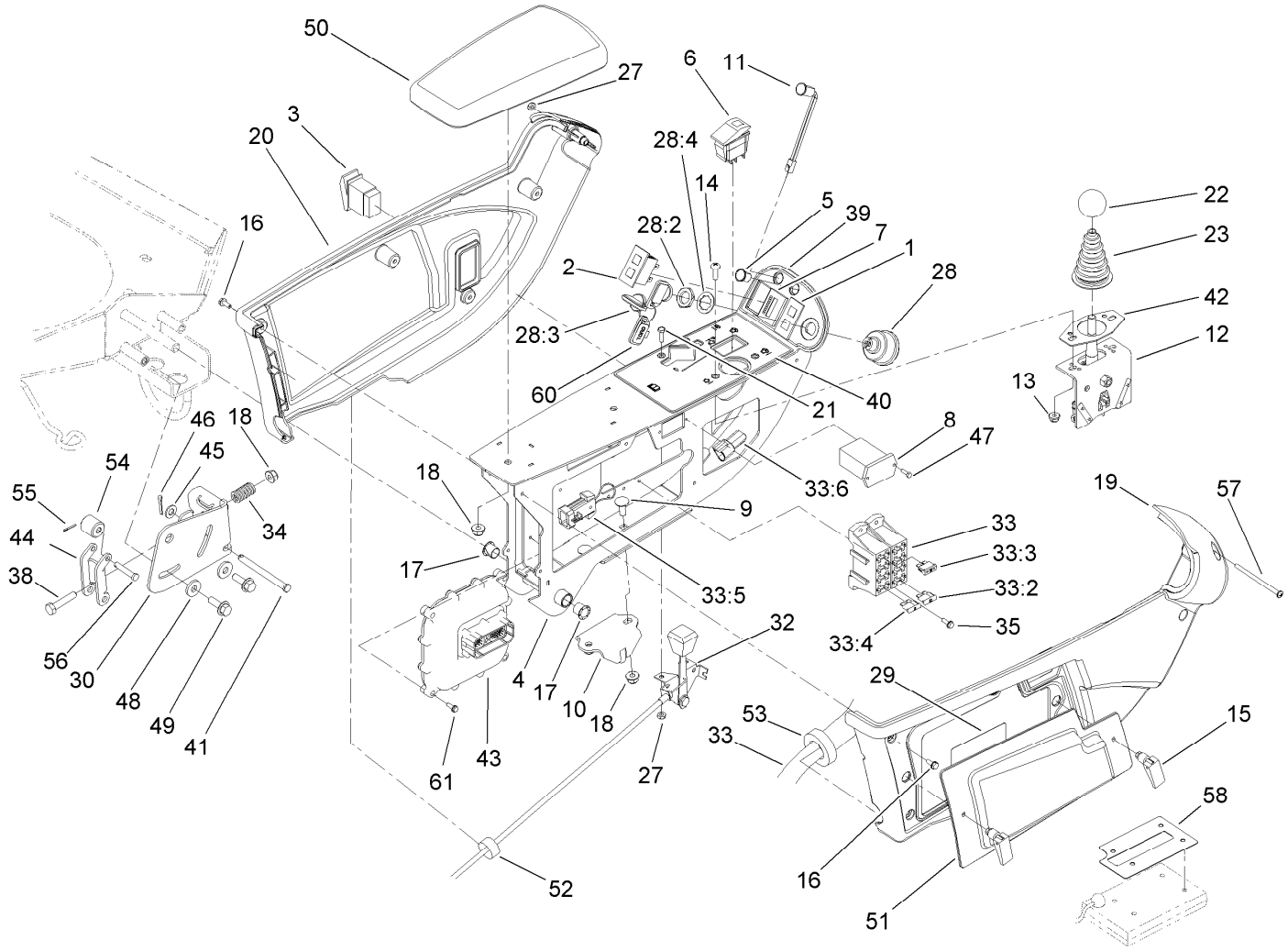
Ref.	Part Number	Qty.	Description
21	108-7577-03	1	Seat Base
22	71-9310	4	Spacer
23	99-7411	1	Point-Power
24	99-7416	1	Cap
25	32104-17	2	Screw-HWH
26	3234-17	4	Screw-HHF
27	3272-11	2	Pin-Cotter
28	3256-24	4	Washer-Flat
29	108-6590-03	2	Bracket-Seat, Lower
30	108-7582-03	1	Plate-Pivot
31	3234-13	2	Screw-HHF
32	3296-16	2	Nut-Lock, NI
33	104-4821	1	Spring-Torsion
34	3272-6	1	Pin-Cotter
35	94-3829	1	Pin-Clevis
36	3256-2	1	Washer-Flat
37	240-12	1	Grommet
38	119-6973-03	1	Bracket-Harness



Mechanical Seat Suspension Assembly No. 110-8851

Ref.	*Part Number*	*Qty.*	*Description*
1	119-8040	1	Knobs Service Kit
6	108-4584	1	Weight Indicator Service Kit
6:1		1	Tape-Weight Adjust ●
6:2		1	Guide-Weight Adjust ●
7	108-9632	4	Roller
8	108-9633	1	Spring-Extension
10	112-0164	1	Boot Kit
10:1		1	Boot-Suspension ●
10:2	108-9641	21	Clip-Plug
18	108-9634	1	Bumper
21	108-9614	1	Damper
26	108-9622	2	Tube
33	3269-16	2	Rivet
39	3272-9	1	Pin-Cotter
42	32152-2	1	Nut-Lock, Cone

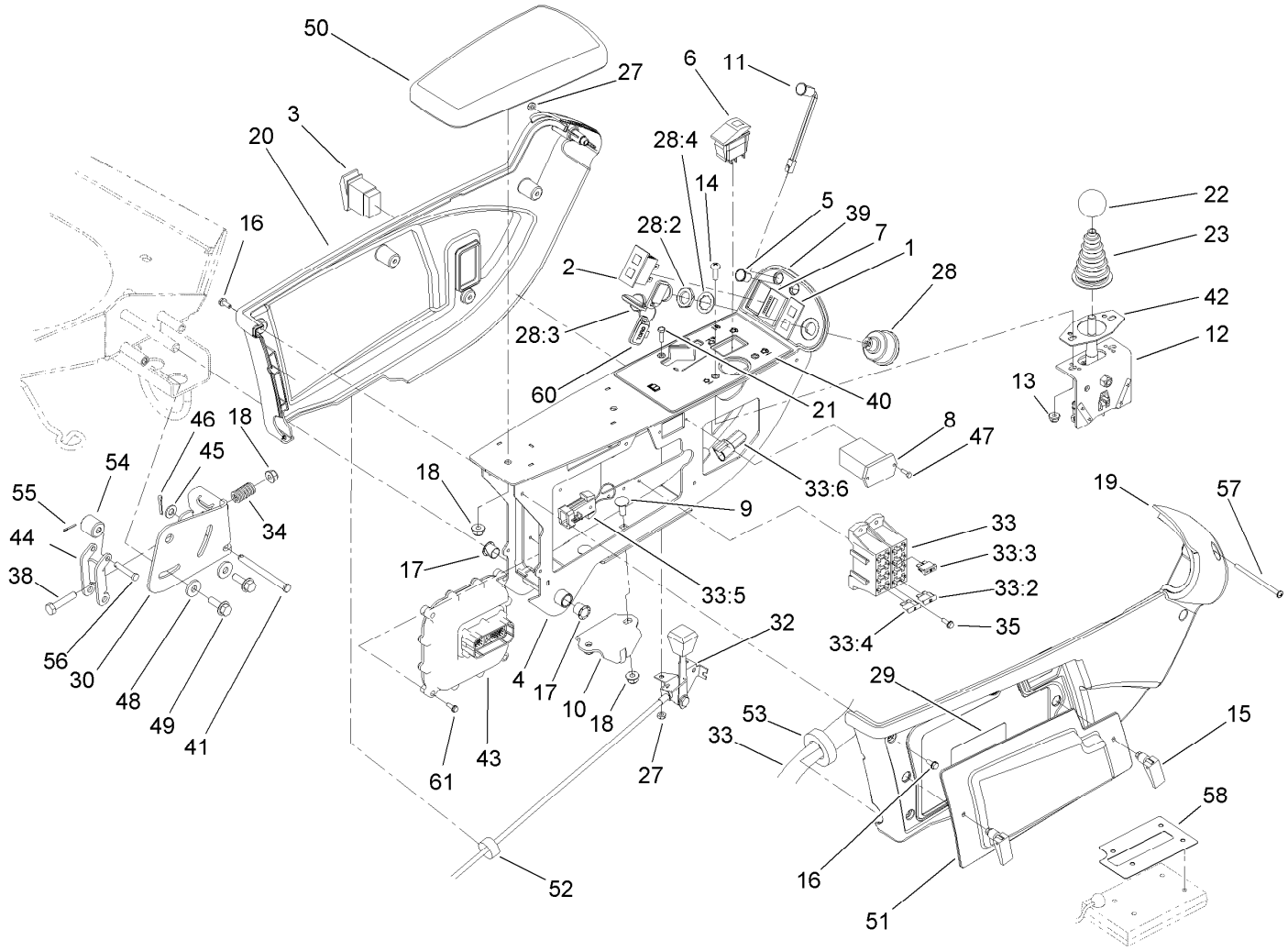
● Not serviced separately



Console and Control Arm Assembly

Ref.	Part Number	Qty.	Description
1	100-8070	1	Lamp-Warning
2	100-8071	1	Lamp-Warning
3	95-8999	1	Switch
4	114-0449-03	1	Arm-Control
5	2410-64	1	Plug-Button
6	105-4232	1	Switch
7	110-0941	1	Gauge-Temperature
8	75-6820	1	Hourmeter
9	3230-23	2	Screw-CARR
10	110-5340	1	Latch
11	95-7652	1	Light-Indicator
12	120-5280	1	Joystick Bracket ASM
13	104-7201	2	Nut-HF
14	3258-166	2	Screw-PRH
15	74-5950	2	Latch-Swell
16	104-2065	10	Screw-HWH
17	256-257	2	Bushing-Nyliner
18	104-8300	5	Nut-Flange, NI
19	108-7605	1	Cover-RH
20	108-7604	1	Cover-LH
21	3290-134	2	Screw

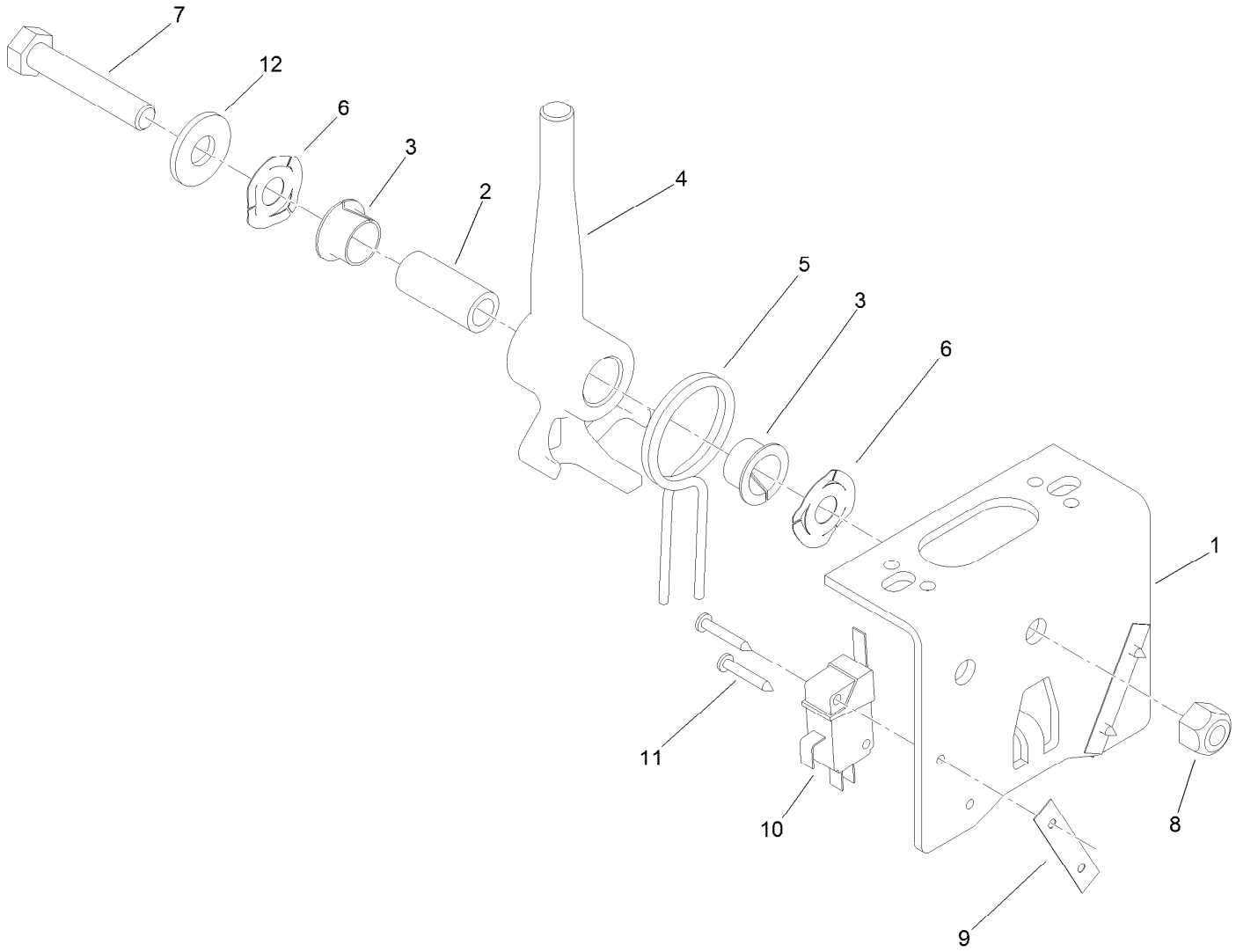
Ref.	Part Number	Qty.	Description
22	233-42	1	Knob
23	93-5961	1	Boot-Lever
27	3296-2	3	Nut-Lock, NI
28	106-5269	1	Ignition Switch ASM
28:2	108-8660	1	Nut-Mounting
28:3	106-5270	1	Ignition Key Set
28:4	108-8659	1	Washer-Backup
29	117-0169	1	Decal-Fuses
30	110-5313-03	1	Bracket-Retainer
32	114-8886	1	Control-Throttle
33	119-1345	1	Harness-Wire, Seat
33:2	114241	3	Fuse-Blade, 7.5 Amp
33:3	218-578	3	Fuse-Blade, 10 Amp
33:4	109355	1	Fuse-Blade, 15 Amp
33:5	85-4650	1	Connector
33:6	32180-043	1	Resistor-120 Ohm
34	110-5331	1	Spring-Compression
35	32144-87	4	Screw-HWHTF
38	322-7	1	Screw-HH
39	117-2385	1	Decal-Console, Upper
40	117-0170	1	Decal-Controls



Console and Control Arm Assembly (continued)

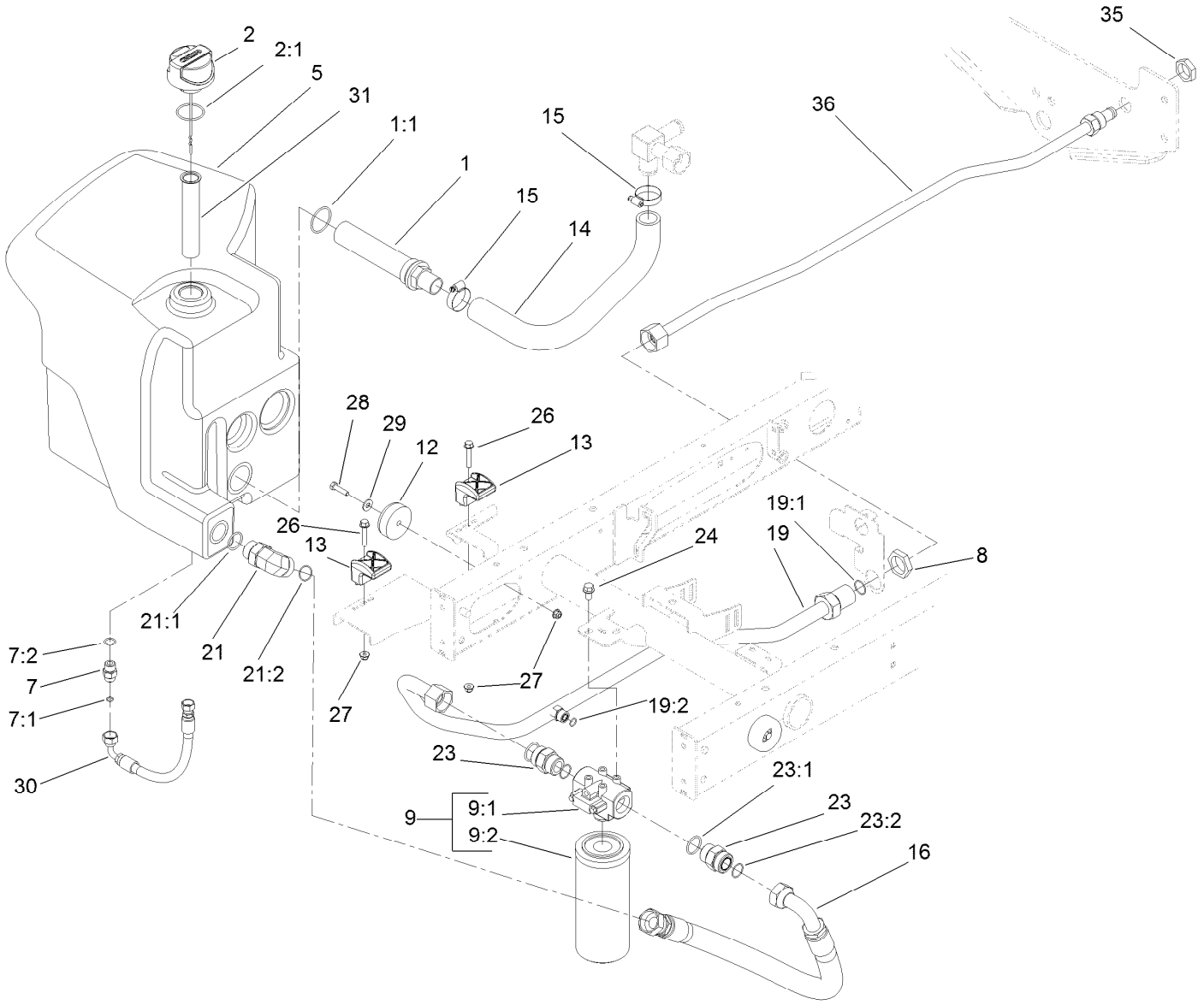
Ref.	Part Number	Qty.	Description
41	283-88	1	Pin-Clevis
42	112-9181	1	Plate-Boot
43	114-3321	1	Controller-Tec
44	110-5314	1	Latch
45	3256-23	1	Washer-Flat
46	3272-10	1	Pin-Cotter
47	32144-18	2	Screw-HWH
48	4-2390	2	Washer-Flat
49	3234-29	2	Screw-HHF
50	108-7602	1	Rest-Arm

Ref.	Part Number	Qty.	Description
51	114-0446	1	Panel-Access
52	110-8911	1	Seal-Foam
53	110-8912	1	Seal-Foam
54	110-8856	1	Spacer
55	3272-1	1	Pin-Cotter
56	283-73	1	Pin-Clevis
57	3250-22	1	Screw-PPH
58	117-0171	1	Overlay-Diagnostics
60	99-8970	1	Key-Latch, Hood
61	32144-86	4	Screw-HWHTF



Joystick Bracket Assembly No. 120-5280

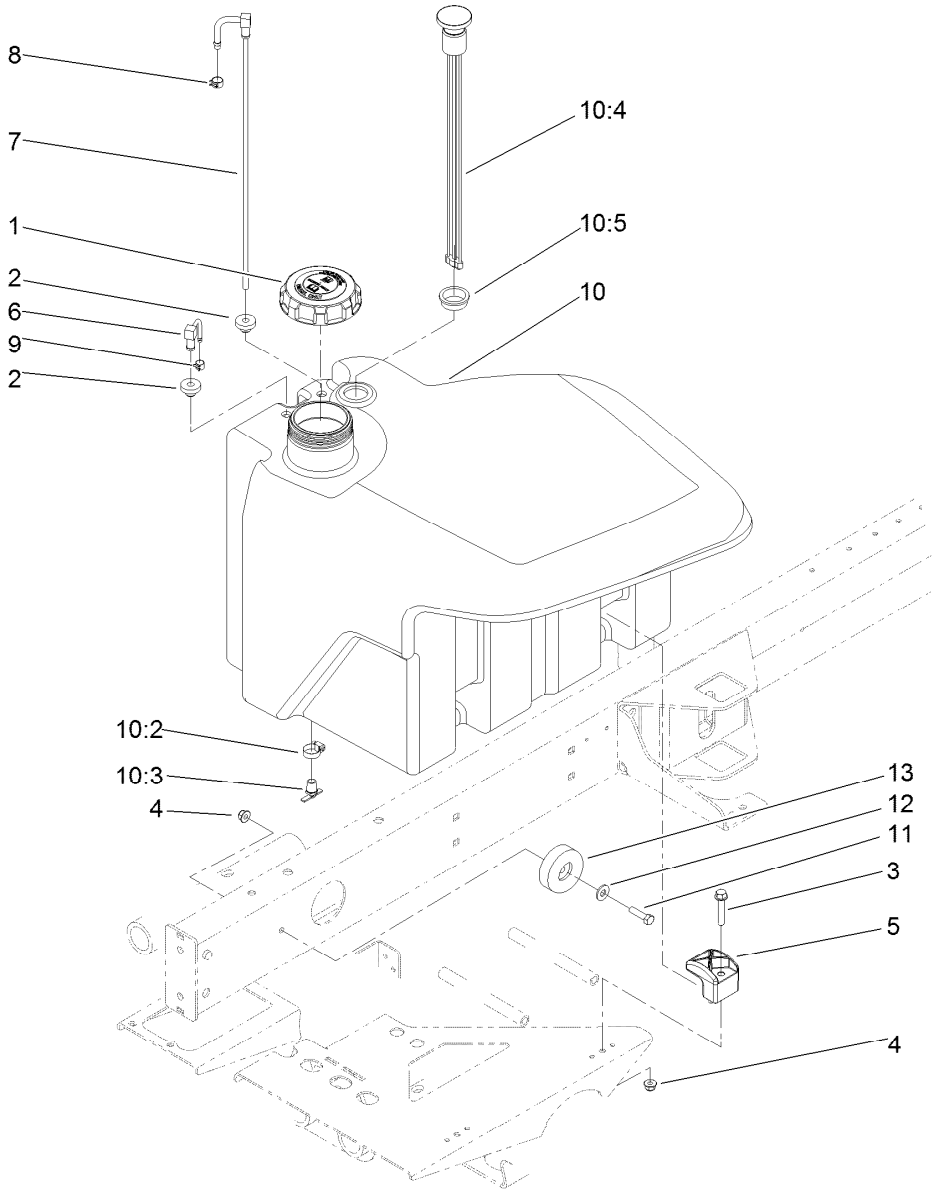
Ref.	*Part Number*	*Qty.*	*Description*
1	115-5357-03	1	Bracket-Joystick
2	106-4192	1	Spacer
3	93-5547	2	Bushing-Nylon
4	119-3540	1	Hub-Pivot, Joystick
5	105-8289	1	Spring-Torsion
6	106-4193	2	Washer-Finger, Spring
7	322-9	1	Screw-HH
8	3296-29	1	Nut-Lock, NI
9	3290-354	2	Nut-Speed
10	108-6496	2	Switch (W/Boot)
11	95-3003	4	Screw-PPHTF
12	3256-3	1	Washer-Flat



Hydraulic Tank Assembly

Ref.	Part Number	Qty.	Description
1	105-0131	1	Strainer-Tank, Oil
1:1	340-136	1	O-Ring
2	117-0193	1	Cap-Hydraulic, Vented Breather
2:1	237-101	1	O-Ring
5	114-0392	1	Tank-Hydraulic
7	340-3	1	Adapter
7:1	237-22	1	O-Ring
7:2	237-79	1	O-Ring
8	340-128	1	Nut-Bulkhead
9	98-3923	1	Oil Filter ASM
9:1	104-0080	1	Filter Head ASM
9:2	94-2621	1	Element-Filter
12	108-1605	1	Bumper-Recess
13	107-4543	2	Clamp
14	108-1685	1	Hose-Formed
15	2412-111	2	Clamp
16	108-1689	1	Hose-HYD

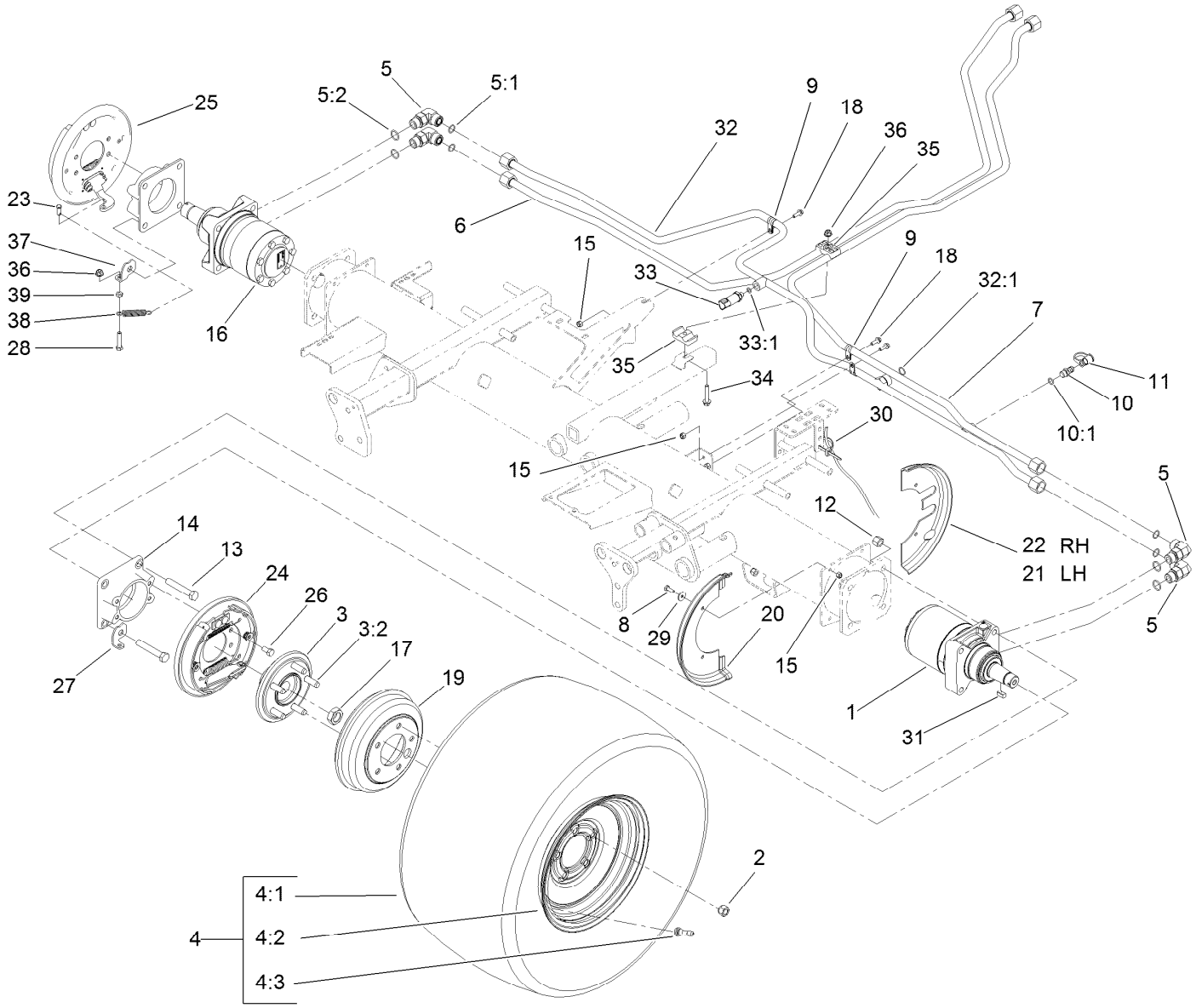
Ref.	Part Number	Qty.	Description
19	108-1699	1	Tube ASM
19:1	340-65	1	O-Ring
19:2	237-30	1	O-Ring
21	340-129	1	Fitting-HYD, 90 DEG
21:1	237-146	1	O-Ring
21:2	340-65	1	O-Ring
23	104-3797	2	Fitting-HYD, Straight
23:1	237-146	1	O-Ring
23:2	340-65	1	O-Ring
24	3234-1	2	Screw-HHF
26	94-5780	2	Screw-HWH
27	104-8300	3	Nut-Flange, NI
28	322-6	1	Screw-HH
29	3256-3	1	Washer-Flat
30	66-8490	1	Hose-HYD
31	61-2790	1	Filter-Screen
35	340-126	1	Nut-Bulkhead
36	108-1691	1	Tube ASM



Fuel Tank Assembly

Ref.	Part Number	Qty.	Description
1	114-5062	1	Cap-Biodiesel
2	46-6560	2	Bushing
3	94-5780	2	Screw-HWH
4	104-8300	3	Nut-Flange, NI
5	107-4543	2	Clamp
6	108-1643	1	Fitting-Return
7	110-9031	1	Fitting-Suction
8	92-2379	1	Clamp-Hose
9	2412-80	1	Clamp-Hose

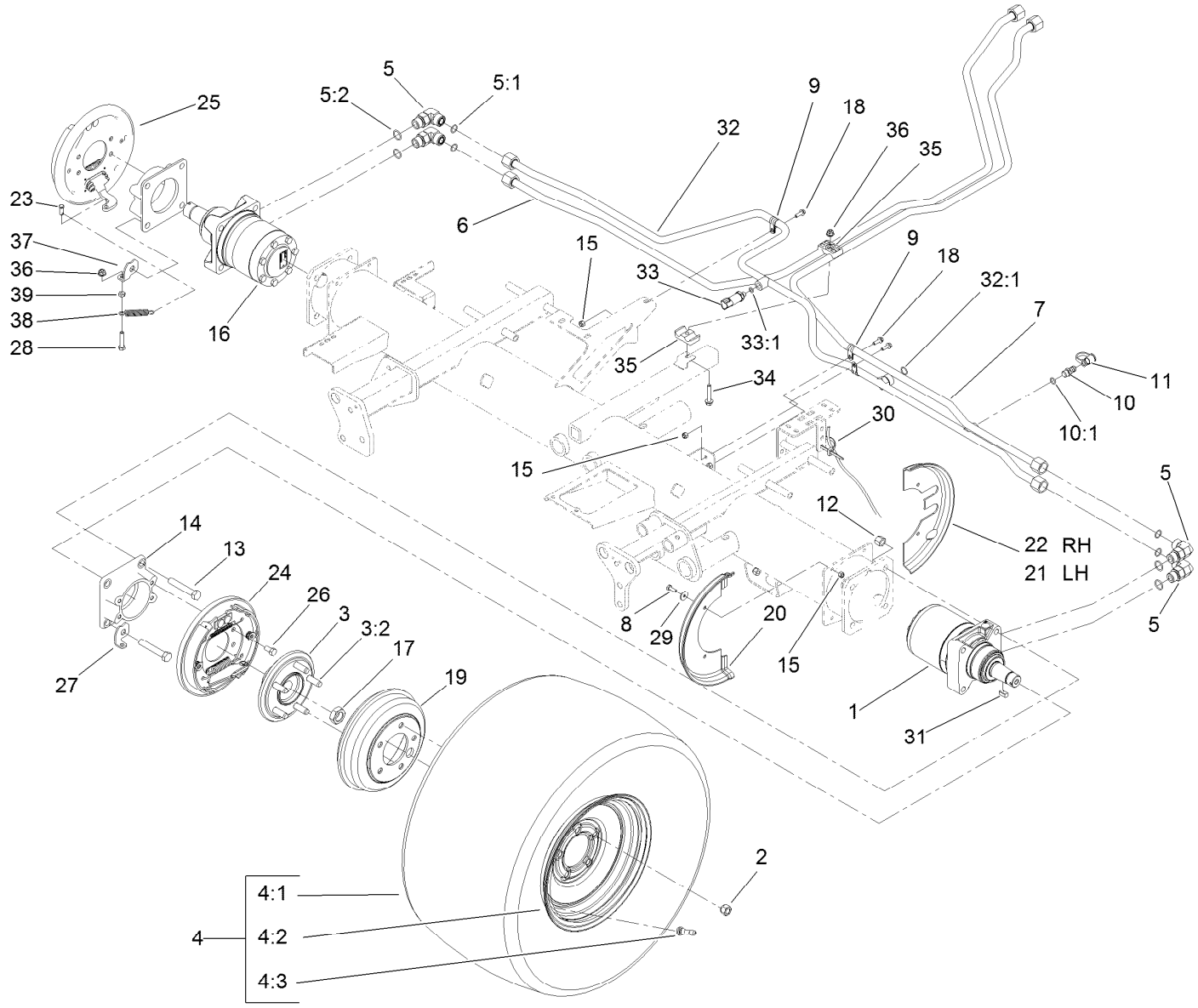
Ref.	Part Number	Qty.	Description
10	117-0114	1	Fuel Tank ASM
10:2	2412-36	1	Clamp-Hose
10:3	304-46	1	Draincock
10:4	108-1640	1	Gauge-Fuel
10:5	95-8972	1	Grommet
11	322-6	1	Screw-HH
12	3256-3	1	Washer-Flat
13	108-1605	1	Bumper-Recess



Front Wheel, Brake and Hydraulic Motor Assembly

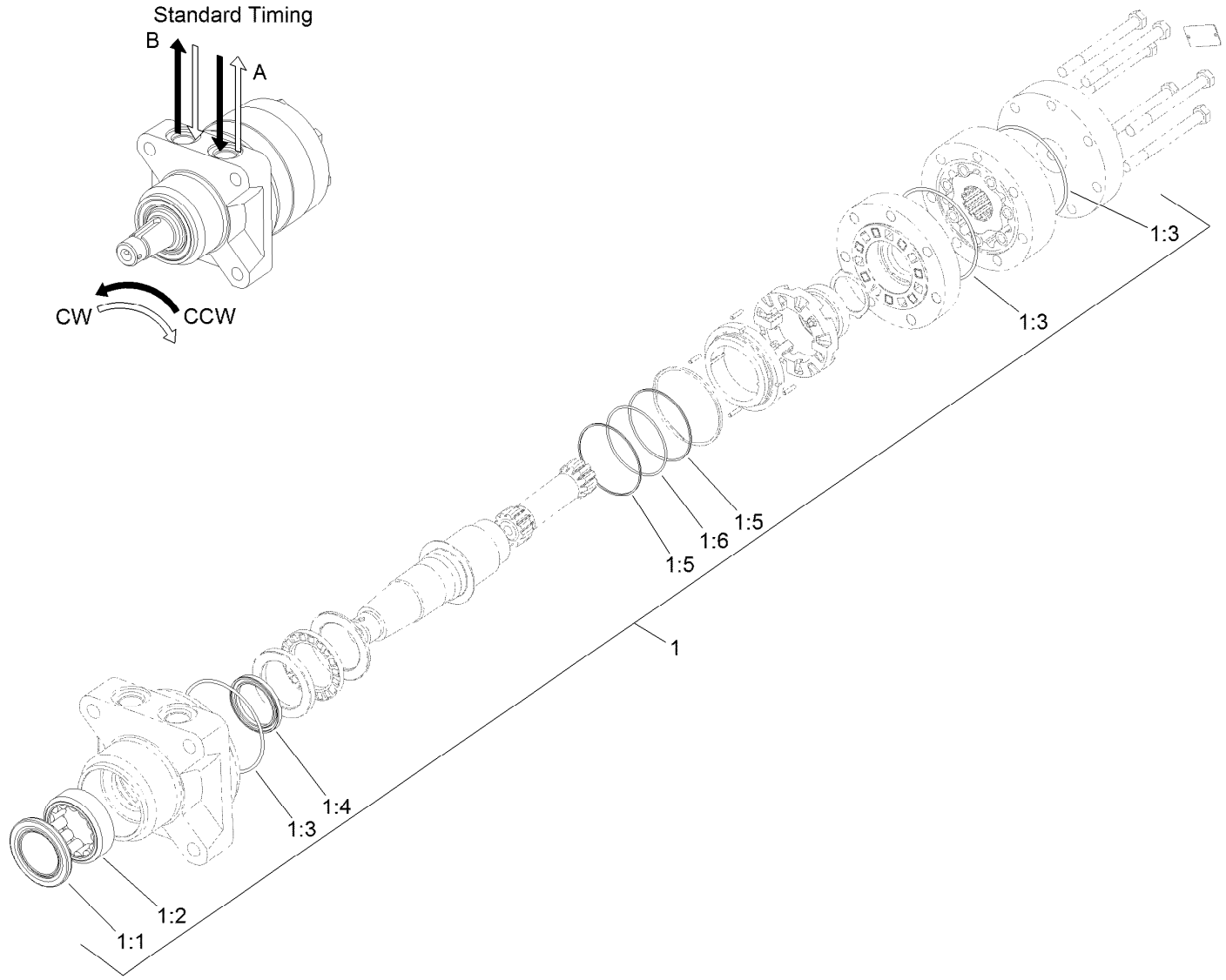
Ref.	Part Number	Qty.	Description
1	120-6264	1	Hydraulic Motor ASM (CCW)
2	242-50	10	Nut-Lug
3	120-6255	2	Hub ASM
3:2	10-6830	5	Stud-Type, Drive
4	117-5194	2	Tire ASM
4:1	117-5196	1	Tire
4:2	117-5197	1	Wheel
4:3	232-27	1	Stem-Valve
5	340-17	4	Fitting-HYD, 90 DEG
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	114-0425	1	Hydraulic Tube ASM
7	114-0424	1	Hydraulic Tube ASM
8	321-4	8	Screw-HH
9	2412-134	3	Clamp-R
10	59-7410	1	Fitting-Diagnostic
10:1	237-42	1	O-Ring
11	354-79	1	Cap-Dust
12	3296-23	8	Nut-Lock, NI
13	325-12	8	Screw-HH
14	120-6253-03	2	Adapter-Brake

Ref.	Part Number	Qty.	Description
15	3296-42	11	Nut-Lock, NI
16	120-6265	1	Hydraulic Motor ASM (CW)
17	117-3290	2	Nut-Hex
18	3234-4	3	Screw-HHF
19	114-8864	2	Drum-Brake
20	110-0950	2	Shield-Wheel, Front
21	110-0951	1	Shield-Wheel, Rear (LH)
22	110-8878	1	Shield-Wheel, Rear (RH)
23	283-62	2	Pin-Clevis
24	120-6261	1	LH Brake ASM
25	120-6260	1	RH Brake ASM
26	323-4	8	Screw-HH
27	120-6267	1	Clip-Spring, LH
28	322-7	2	Screw-HH
29	3256-67	8	Washer-Flat
30	3290-378	2	Tie-Cable
31	117-5198	2	Key-Square
32	114-0389	1	Hydraulic Tube ASM
32:1	237-65	1	O-Ring
33	119-0011	1	Pressure Transducer ASM
33:1	237-78	1	O-Ring



Front Wheel, Brake and Hydraulic Motor Assembly (continued)

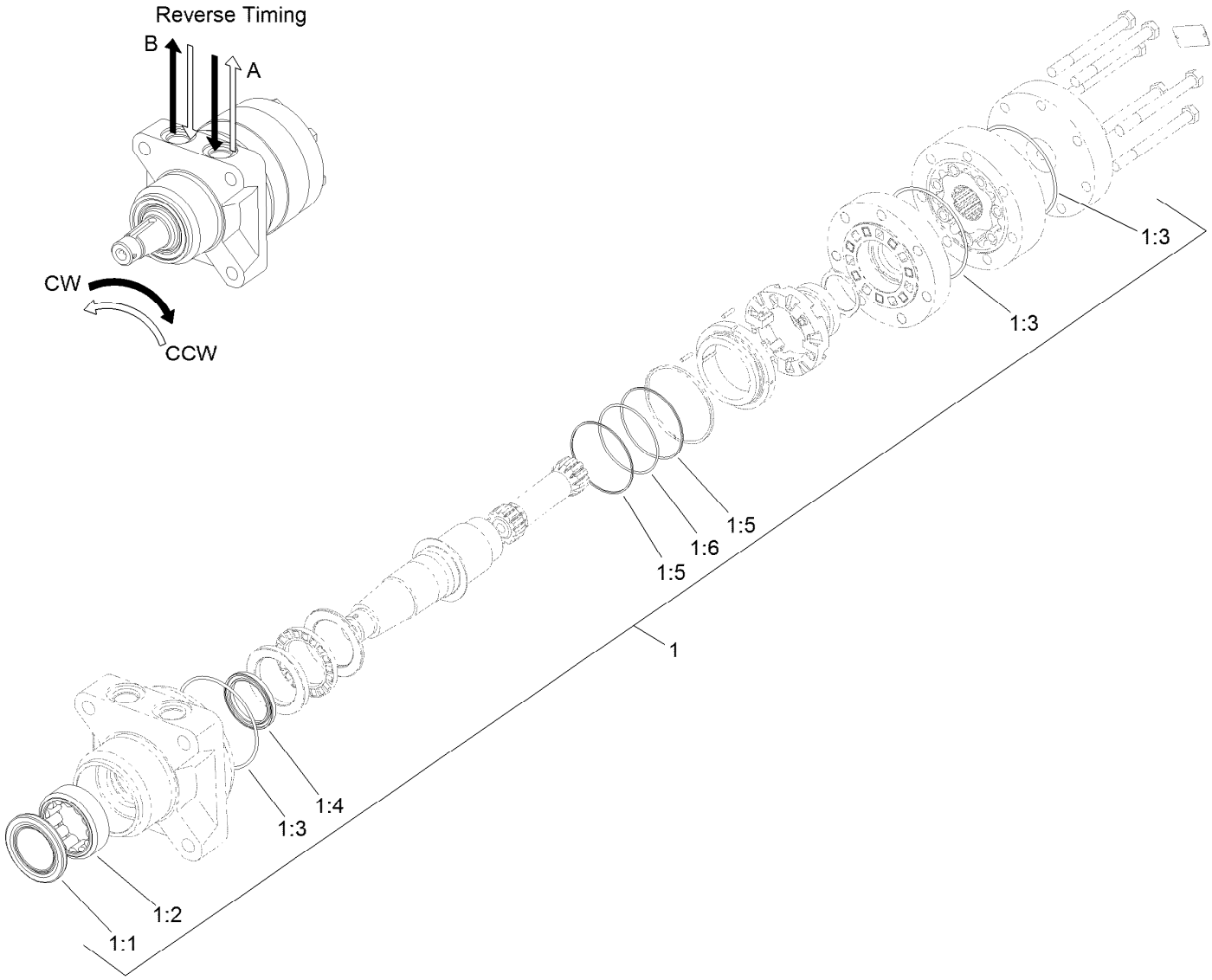
Ref.	Part Number	Qty.	Description
34	94-5780	1	Screw-HWH
35	56-7971	2	Clamp-Tube
36	104-8300	3	Nut-Flange, NI
37	120-6266	1	Clip-Spring, RH
38	87-4020	2	Spring-Extension
39	3218-2	2	Nut-Jam



Hydraulic Motor Assembly No. 120-6264 (CCW)

Ref.	*Part Number*	*Qty.*	*Description*
1	120-6268	1	Seal Kit
1:1		1	Seal-Grease ●
1:2		1	Shell-Bearing ●
1:3		3	O-Ring ●
1:4		1	Seal-Shaft ●
1:5		2	Ring-Back Up ●
1:6		1	O-Ring ●

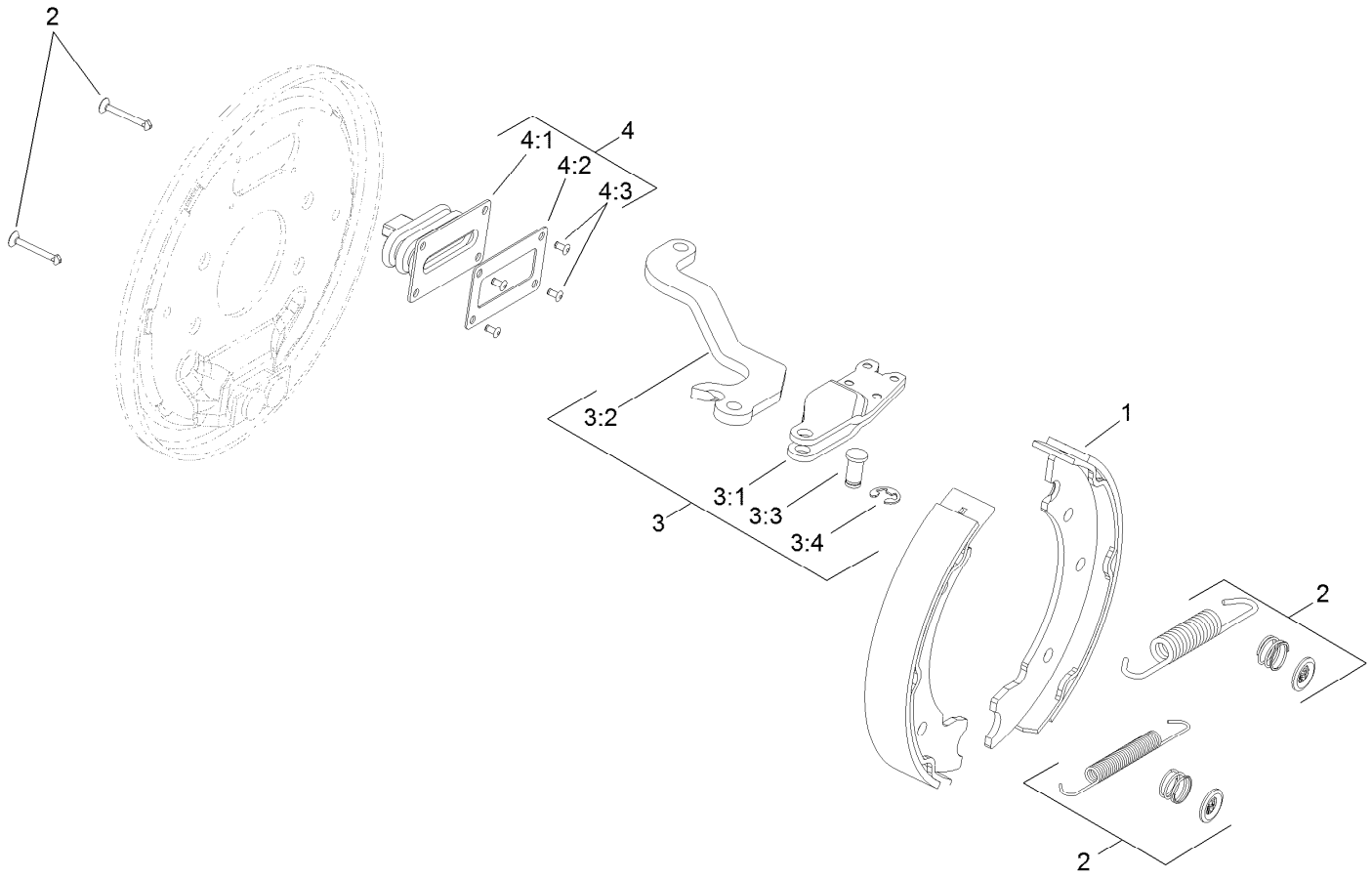
● Not serviced separately



Hydraulic Motor Assembly No. 120-6265 (CW)

Ref.	*Part Number*	*Qty.*	*Description*
1	120-6268	1	Seal Kit
1:1		1	Seal-Grease ●
1:2		1	Shell-Bearing ●
1:3		3	O-Ring ●
1:4		1	Seal-Shaft ●
1:5		2	Ring-Back Up ●
1:6		1	O-Ring ●

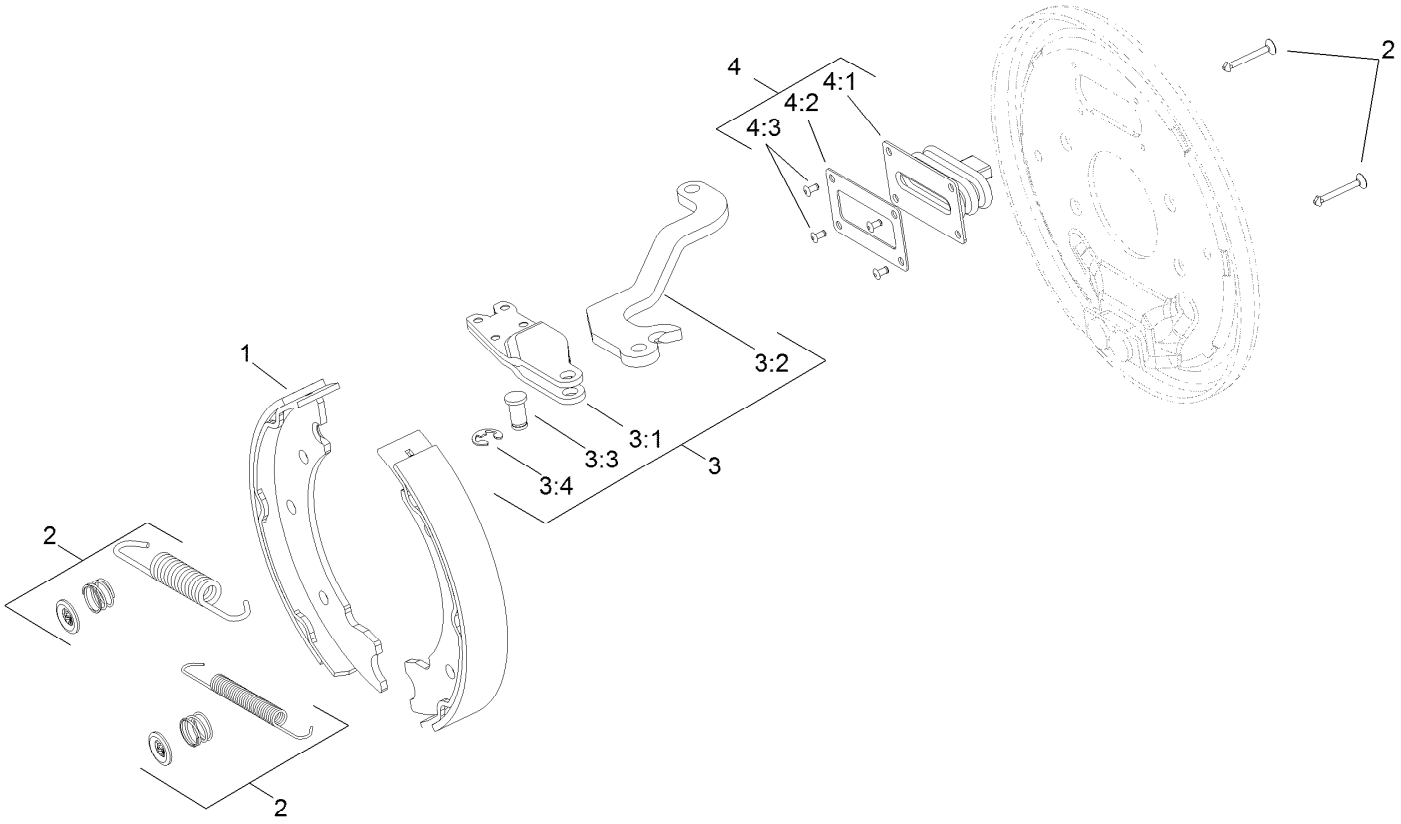
● Not serviced separately



LH Brake Assembly No. 120-6261

Ref.	*Part Number*	*Qty.*	*Description*
1	108-6981	1	Brake Shoe Kit
2	108-6983	1	Brake Hardware Kit
3	110-8910	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 ●

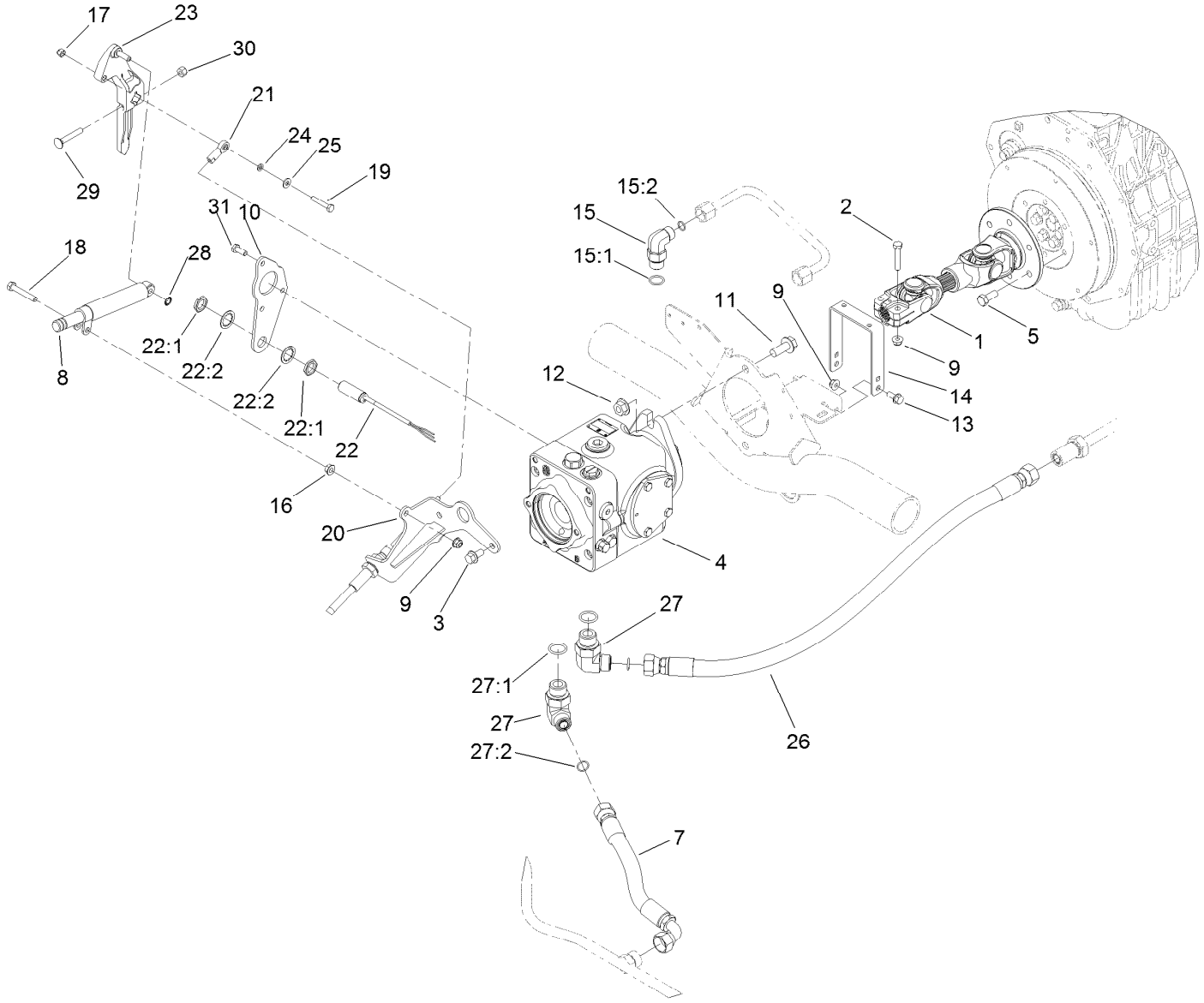
● Not serviced separately



RH Brake Assembly No. 120-6260

Ref.	*Part Number*	*Qty.*	*Description*
1	108-6981	1	Brake Shoe Kit
2	108-6983	1	Brake Hardware Kit
3	110-8884	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 ●

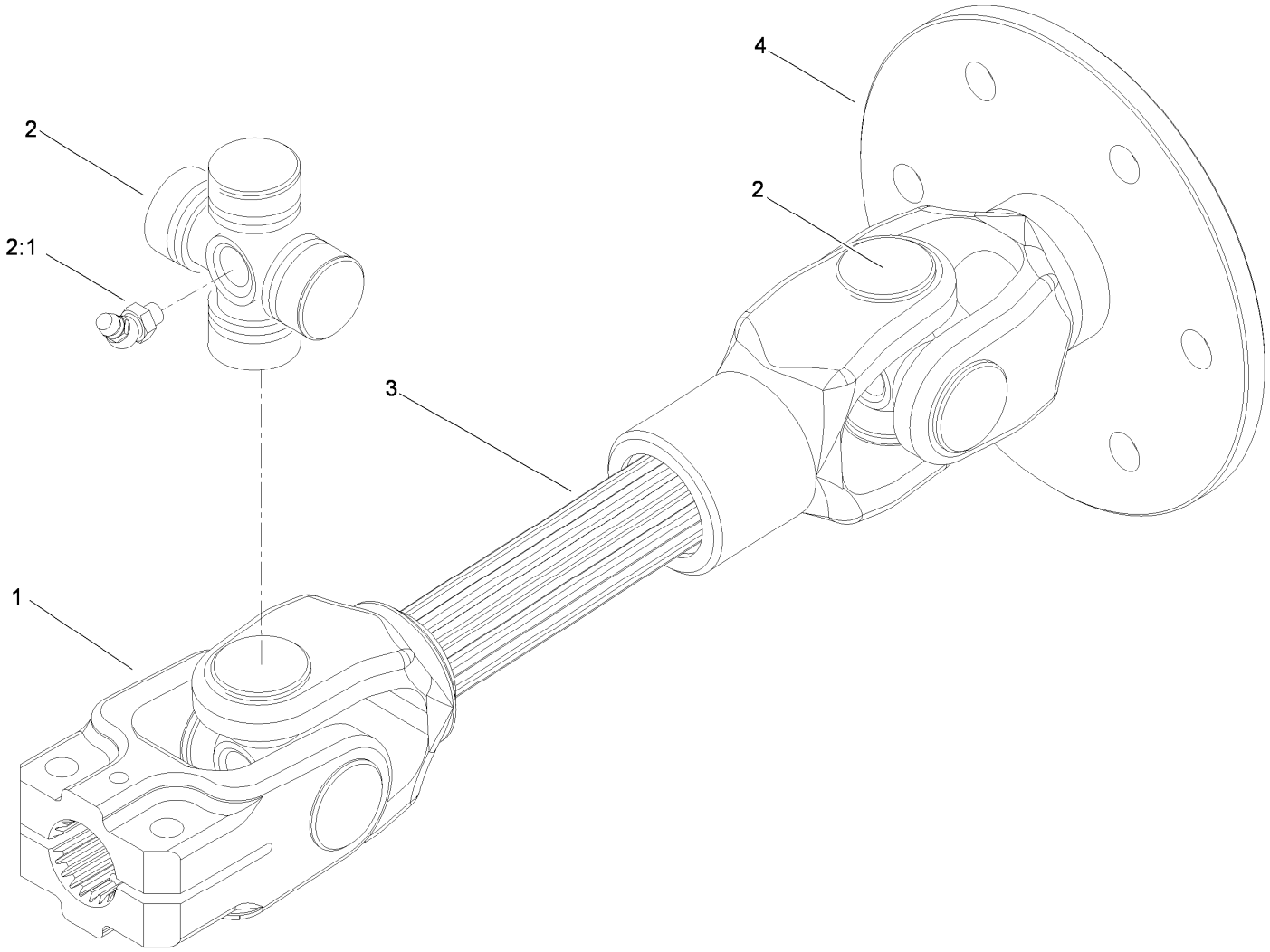
● Not serviced separately



Driveshaft and Variable Pump Hydraulic Fitting Assembly

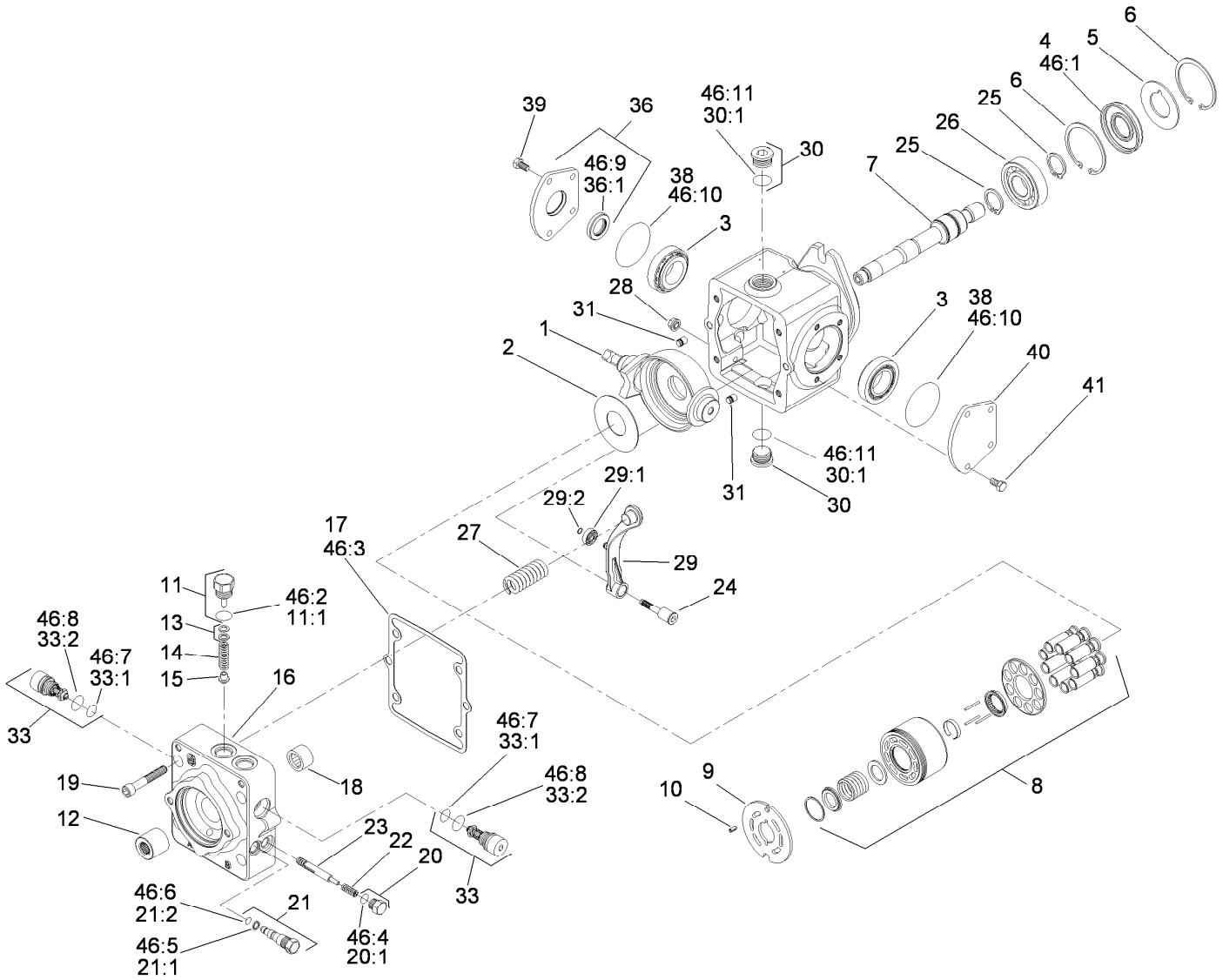
Ref.	Part Number	Qty.	Description
1	108-1641	1	Driveshaft ASM
2	322-9	2	Screw-HH
3	3234-1	2	Screw-HHF
4	119-6972	1	HYD Variable Pump ASM
5	43-0090	6	Screw-HH
7	108-1679	1	Hose-HYD
8	76-8870	1	Damper-Lever
9	104-8300	5	Nut-Flange, NI
10	119-6971-03	1	Plate-Pump
11	3234-38	2	Screw-HHF
12	32128-49	2	Nut-HHF
13	3234-5	2	Screw-HHF
14	108-1799-03	1	Hoop-Guard
15	340-105	1	Fitting-HYD, 90 DEG
15:1	237-80	1	O-Ring
15:2	237-30	1	O-Ring
16	32128-20	1	Nut-HF
17	3296-42	2	Nut-Lock, NI

Ref.	Part Number	Qty.	Description
18	322-10	1	Screw-HH
19	321-9	1	Screw-HH
20	110-5323-03	1	Bracket
21	2411-41	1	Rod End-Ball Joint
22	115-5300	1	Proximity Switch ASM
22:1	117-3207	2	Nut-Hex
22:2	117-3208	2	Washer-Lock, Internal Tooth
23	117-0265	1	Lever-Pump
24	33093-00	1	Washer-Flat
25	3256-22	1	Washer-Flat
26	108-7645	1	Hose-HYD
27	340-139	2	Fitting-HYD, 90 DEG
27:1	237-81	1	O-Ring
27:2	237-65	1	O-Ring
28	32151-72	1	Ring-Retaining
29	3230-6	1	Screw-CARR
30	3296-29	1	Nut-Lock, NI
31	33114-020	3	Screw-HH



Driveshaft Assembly No. 108-1641

Ref.	*Part Number*	*Qty.*	*Description*
1	54-9040	1	Yoke-End
2	54-9180	2	U-Joint Kit
2:1	62-3820	1	Fitting-Grease
3	108-4574	1	Joint And Shaft ASM
4	108-4575	1	Joint And Yoke ASM



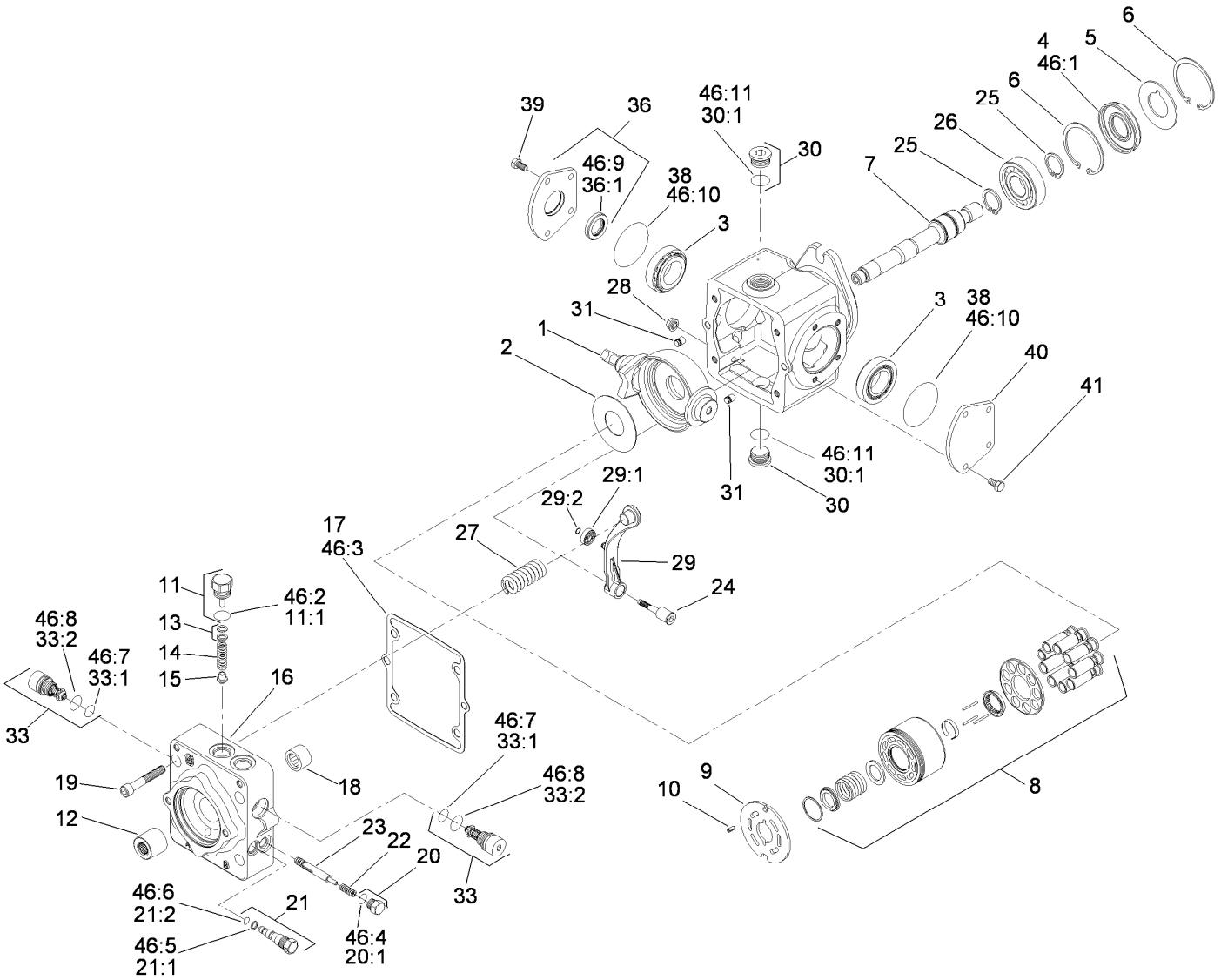
Hydraulic Pump Assembly No. 119-6972

Ref.	Part Number	Qty.	Description
1	115-8092	1	Swashplate
2	75-0400	1	Plate-Thrust
3	110-6483	2	Bearing Kit
4	110-6471	1	Seal-Lip
5	95-4400	1	Washer-Backup
6	69-3200	2	Ring-Retaining
7	110-6484	1	Shaft-Auxiliary
8	110-6472	1	Cylinder Block Kit
9	110-6473	1	Plate-Valve (Clockwise)
10	110-6485	1	Pin-Slotted
11	110-6486	1	Plug-Relief, Charge
11:1	28-3570	1	O-Ring
12	110-6480	1	Coupling
13	92-1353	1	Shim Kit
14	110-6474	1	Spring
15	110-6475	1	Poppet
16	115-8087	1	Cap-End
17	110-6476	1	Gasket-Cap, End

Ref.	Part Number	Qty.	Description
18	75-0500	1	Bearing-Needle
19	110-6489	4	Screw
20	94-9415	2	Plug ASM
20:1		1	O-Ring ■
21	107-4364	1	Bypass Valve ASM
21:1	25-2630	1	Ring-Back Up
21:2	110-6498	1	O-Ring
22	110-6491	2	Spring
23	110-6492	1	Spool-Loop, Flush
24	110-6493	1	Pivot-Return, Neutral
25	69-3170	2	Ring-Retaining
26	75-0460	1	Bearing-Ball
27	115-8085	1	Spring-Neutral Return
28	110-6496	1	Nut-Seal
29	110-6497	1	Neutral Return Arm ASM
29:1	110-6494	1	Bearing-Cam
29:2	110-3056	1	Ring-Retaining
30	69-3130	2	Plug

● Not illustrated

■ Not serviced separately



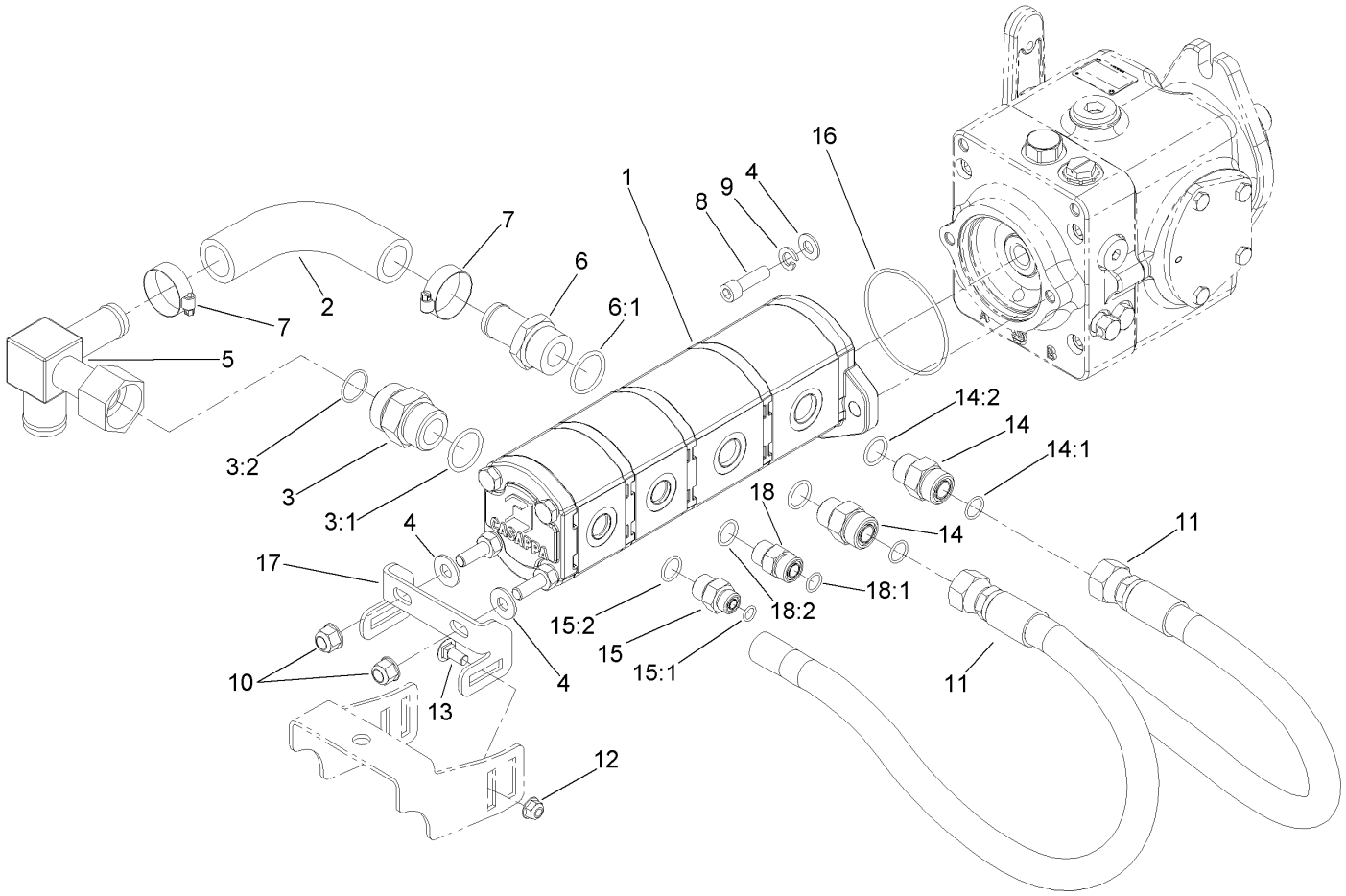
Hydraulic Pump Assembly No. 119-6972 (continued)

Ref.	Part Number	Qty.	Description
30:1		1	O-Ring ■
31	112-0158	2	Pin
33	110-6477	2	Valve-Relief
33:1	75-0240	1	O-Ring
33:2	84-0560	1	O-Ring
36	110-6499	1	Trunnion Cover ASM
36:1	110-6478	1	Seal-Lip
38	84-0430	2	O-Ring
39	112-0150	4	Screw
40	84-0440	1	Cover-Trunnion
41	112-0151	4	Screw
46	110-6481	1	Seal Kit ●

Ref.	Part Number	Qty.	Description
46:1	110-6471	1	Seal-Lip
46:2	28-3570	1	O-Ring
46:3	110-6476	1	Gasket-Cap, End
46:4		1	O-Ring ■
46:5	25-2630	1	Ring-Back Up
46:6	110-6498	1	O-Ring
46:7	75-0240	2	O-Ring
46:8	84-0560	2	O-Ring
46:9	110-6478	1	Seal-Lip
46:10	84-0430	2	O-Ring
46:11		2	O-Ring ■

● Not illustrated

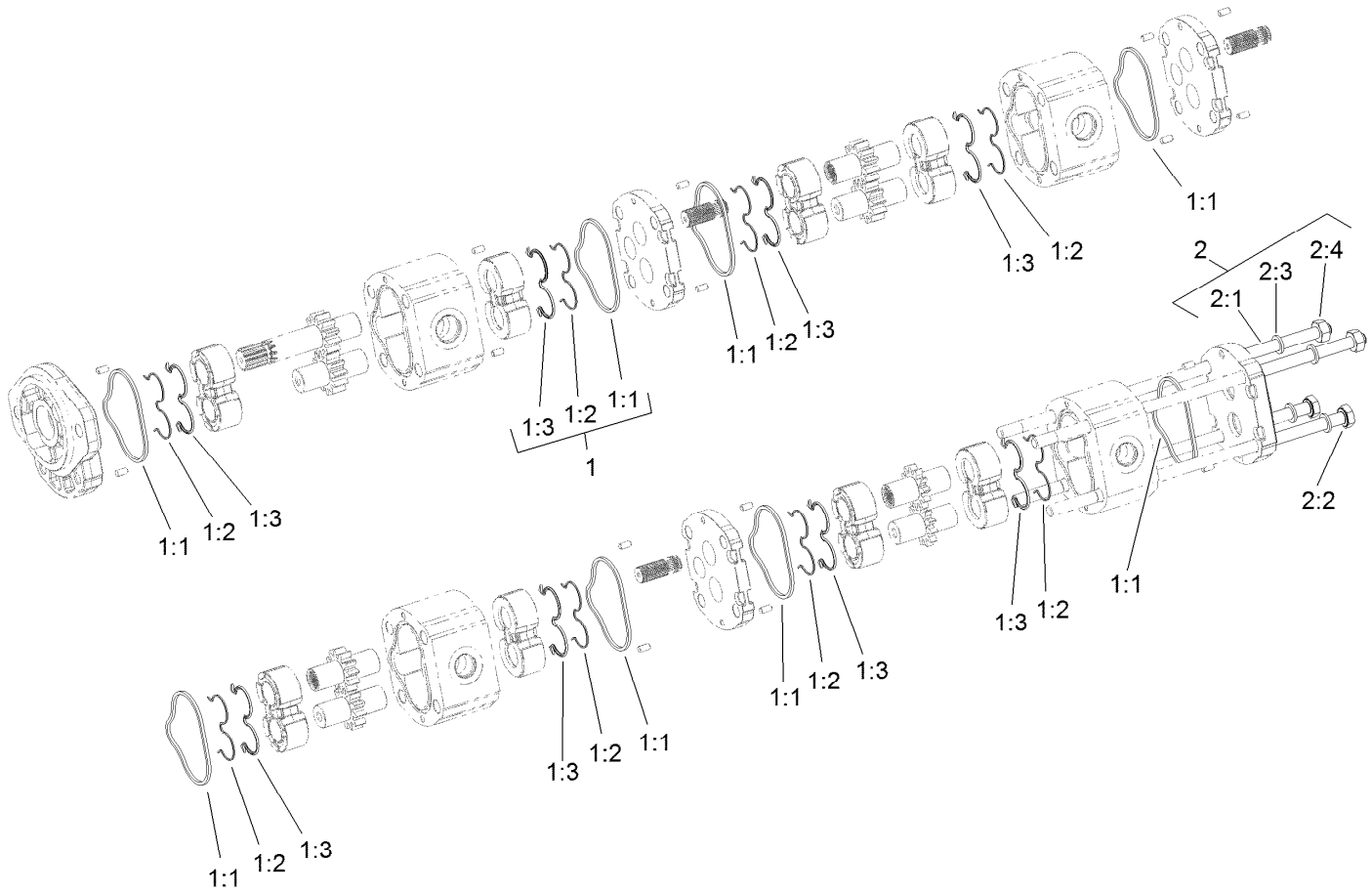
■ Not serviced separately



Gear Pump Hydraulic Plumbing Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	108-4003	1	Gear Pump ASM
2	108-1683	1	Hose-Formed
3	104-3797	1	Fitting-HYD, Straight
3:1	237-146	1	O-Ring
3:2	340-65	1	O-Ring
4	3256-24	4	Washer-Flat
5	108-1672	1	Manifold-Tube
6	354-78	1	Connector-Hose
6:1	237-146	1	O-Ring
7	2412-34	2	Clamp-Hose
8	3274-1	2	Screw-HSH
9	3253-5	2	Washer-Lock
10	103-9511	2	Nut-Lock
11	108-1686	2	Hose-HYD

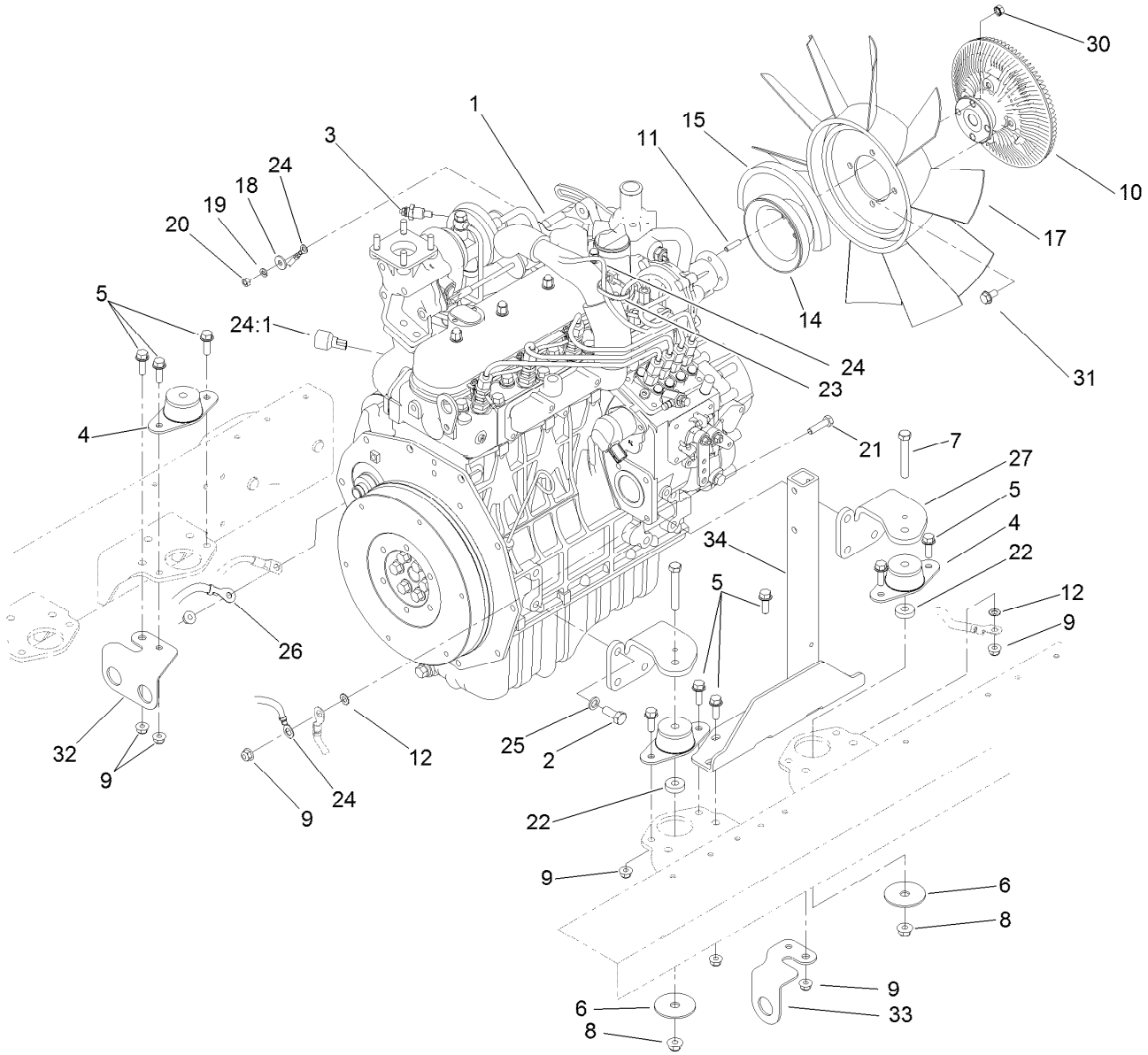
Ref.	*Part Number*	*Qty.*	*Description*
12	104-8300	2	Nut-Flange, NI
13	3230-1	2	Bolt-CARR
14	340-7	2	Adapter
14:1	237-65	1	O-Ring
14:2	237-80	1	O-Ring
15	340-3	1	Adapter
15:1	237-22	1	O-Ring
15:2	237-79	1	O-Ring
16	237-161	1	O-Ring
17	108-1801-01	1	Bracket-Support, Pump
18	340-4	1	Fitting-HYD, Straight
18:1	237-30	1	O-Ring
18:2	237-79	1	O-Ring



Gear Pump Assembly No. 108-4003

Ref.	*Part Number*	*Qty.*	*Description*
1	108-4595	1	Seal Kit
1:1		8	Seal ●
1:2		8	Seal ●
1:3		8	Ring-Back Up ●
2	120-6273	1	Bolt Kit
2:1		2	Stud Bolt ●
2:2		2	Screw ●
2:3		4	Washer ●
2:4		2	Nut ●

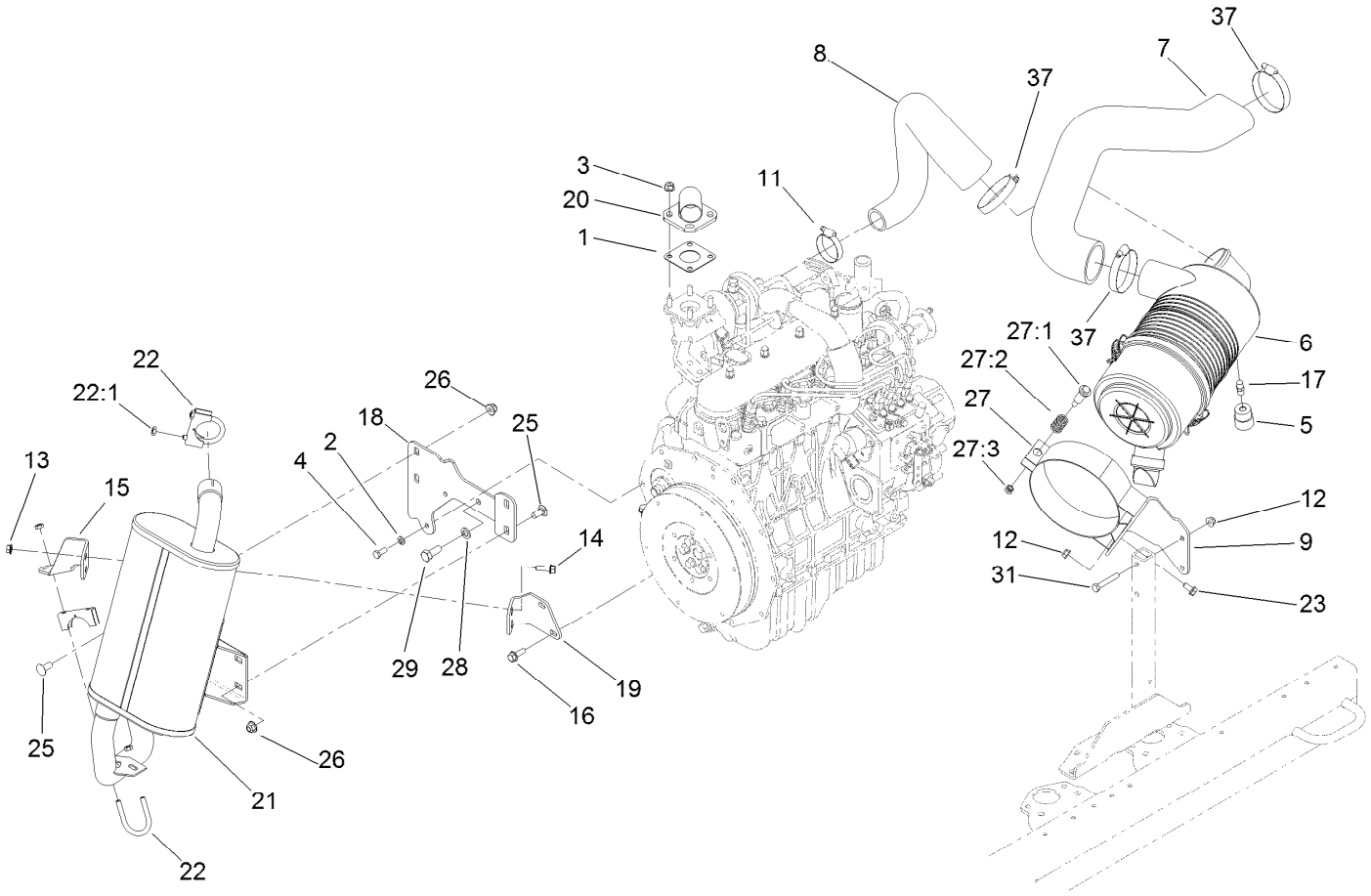
● Not serviced separately



Engine Mounting and Electrical Assembly

Ref.	Part Number	Qty.	Description
1	110-9045	1	Engine-Kubota
2	43-0090	12	Screw-HH
3	98-9346	1	Sender-Temperature
4	120-6274	4	Mount-Engine
5	3234-29	13	Screw-HHF
6	87-5100	4	Washer-Snubbing
7	323-12	4	Screw-HH
8	104-8301	4	Nut-Flange, NI
9	104-8300	14	Nut-Flange, NI
10	117-8972	1	Fan Clutch ASM
11	104-5222	4	Stud
12	3255-8	2	Washer-Lock
14	110-0972	1	Pulley
15	98-9676	1	V-Belt
17	74-3650	1	Fan
18	3256-78	1	Washer-Flat

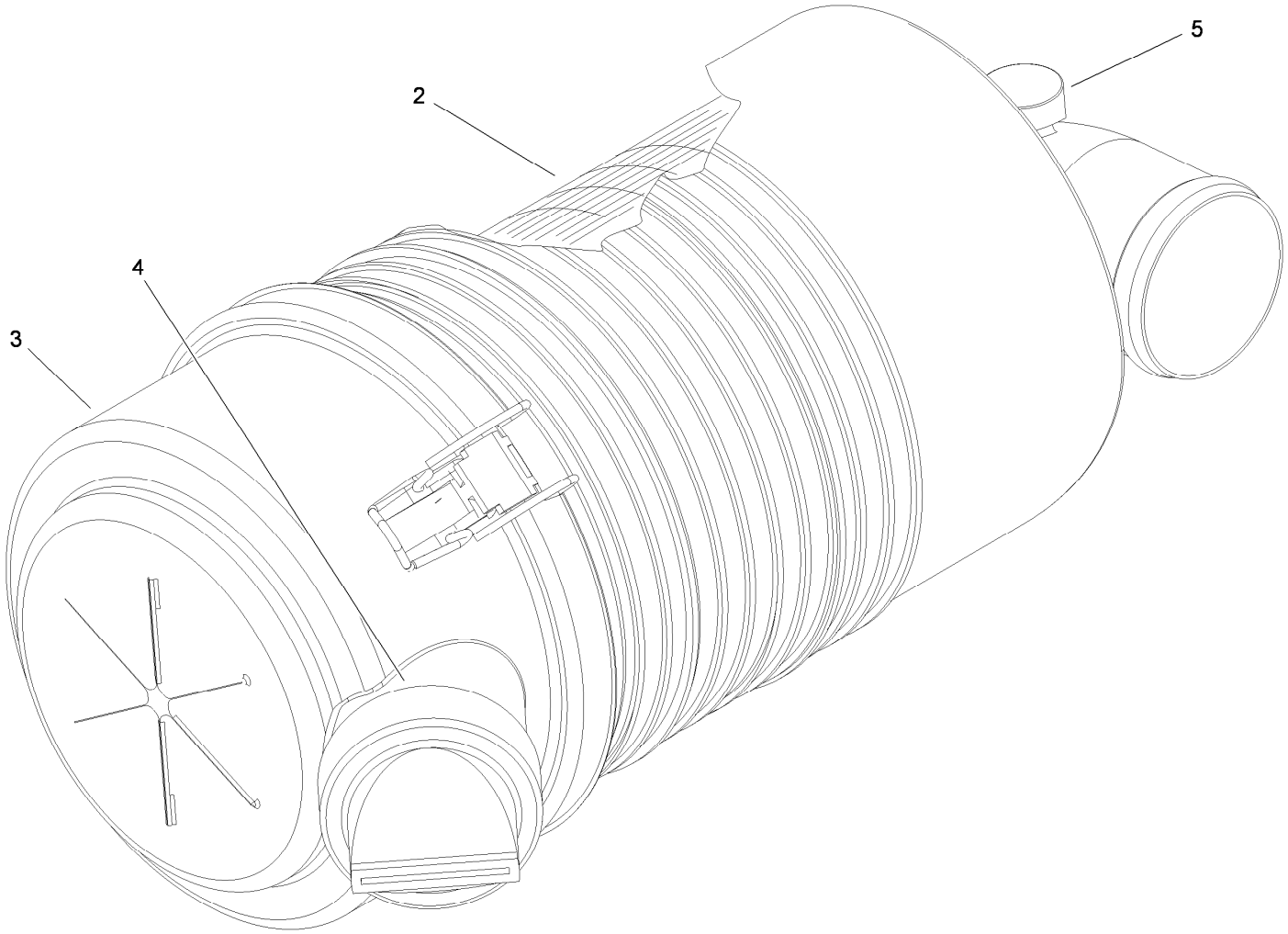
Ref.	Part Number	Qty.	Description
19	43-5930	1	Washer-Lock, Spring
20	48-7890	1	Nut-Hex
21	322-6	1	Screw-HH
22	62-6660	4	Spacer
23	3290-378	1	Tie-Cable
24	106-3615	1	Harness-Wire, Engine
24:1	100-4918	1	Diode-Over Molded
25	48-9590	12	Washer-Lock
26	99-3441	1	Harness-Wire, Fusible Link
27	115-8066-03	4	Mount-Engine
30	98-5845	4	Nut-Hex
31	3234-7	4	Screw-HHF
32	117-0154	1	Bracket-4Wd, RH
33	117-0155	1	Bracket-4Wd, LH
34	110-8977-03	1	Stand-Air Cleaner



Engine Intake and Exhaust Assembly

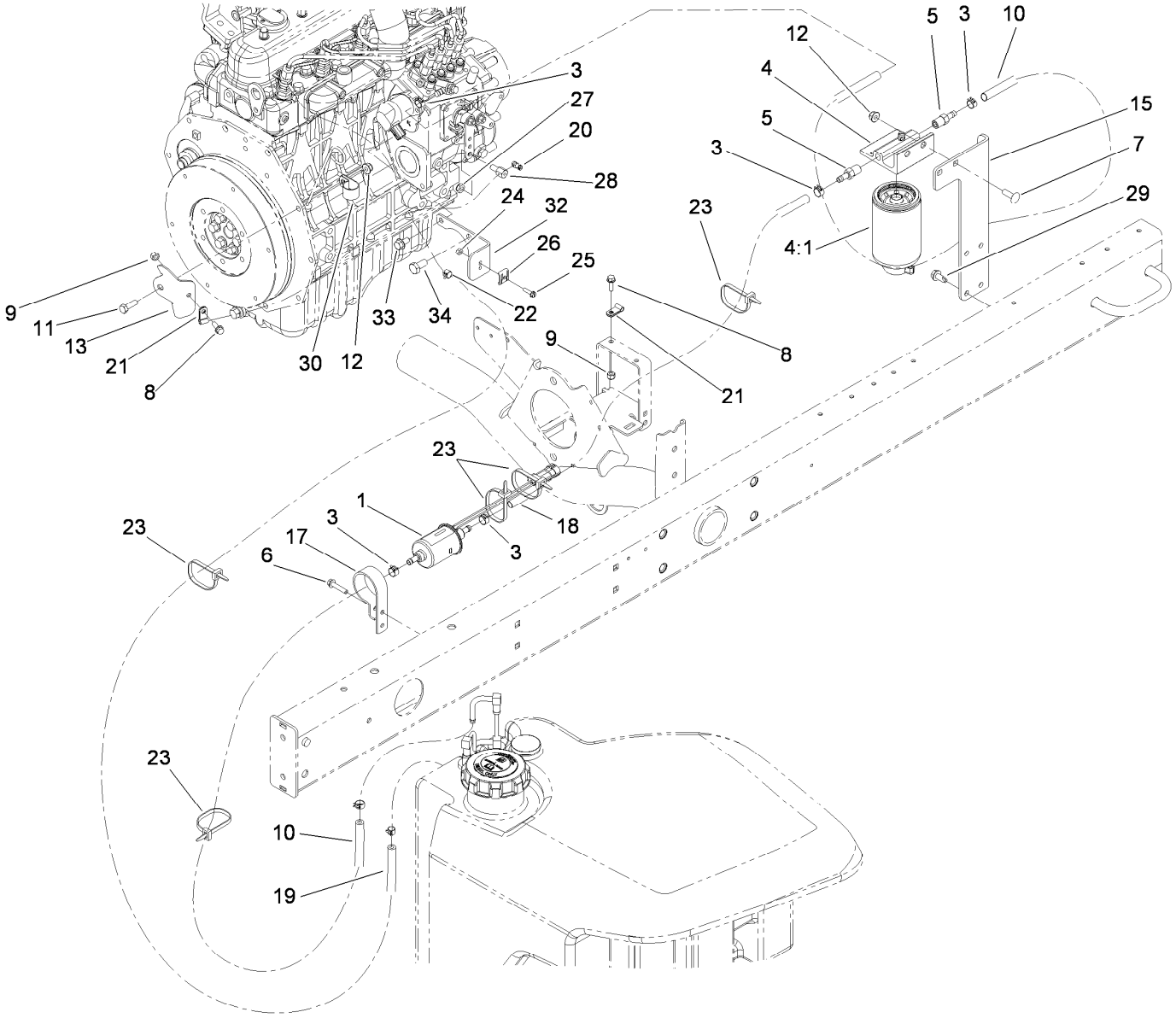
Ref.	Part Number	Qty.	Description
1	99-8343	1	Gasket-Muffler
2	3253-4	2	Washer-Lock
3	104-2612	4	Nut-HF
4	33114-020	2	Screw-HH
5	93-9164	1	Indicator-Mini
6	110-8917	1	Air Cleaner ASM
7	110-8944	1	Hose-Formed
8	117-8061	1	Hose-Turbo
9	110-8981-03	1	Bracket-Mounting
11	2412-3	1	Clamp-Hose
12	104-8300	4	Nut-Flange, NI
13	109-5715	4	Nut-HHF, Smooth
14	3234-29	2	Screw-HHF
15	117-0286	1	Bracket-Tailpipe
16	33104-025	2	Screw-HHF
17	94-1416	1	Adapter-Indicator
18	108-1785-03	1	Bracket-Support, Muffler

Ref.	Part Number	Qty.	Description
19	117-0288	1	Bracket-Tailpipe
20	108-1783	1	Header ASM
21	108-7643	1	Muffler
22	2112-9	2	Clamp
22:1	32128-20	2	Nut-HF
23	3234-14	2	Screw-HHF
25	3231-27	4	Screw-CARR
26	104-8301	4	Nut-Flange, NI
27	93-7486	1	Clamp ASM
27:1	94-3653	1	Bolt
27:2	94-3654	1	Spring
27:3	48-9510	1	Nut
28	48-9590	1	Washer-Lock
29	43-0090	1	Screw-HH
31	322-10	2	Screw-HH
37	2412-125	3	Clamp-Hose



Air Cleaner Assembly No. 110-8917

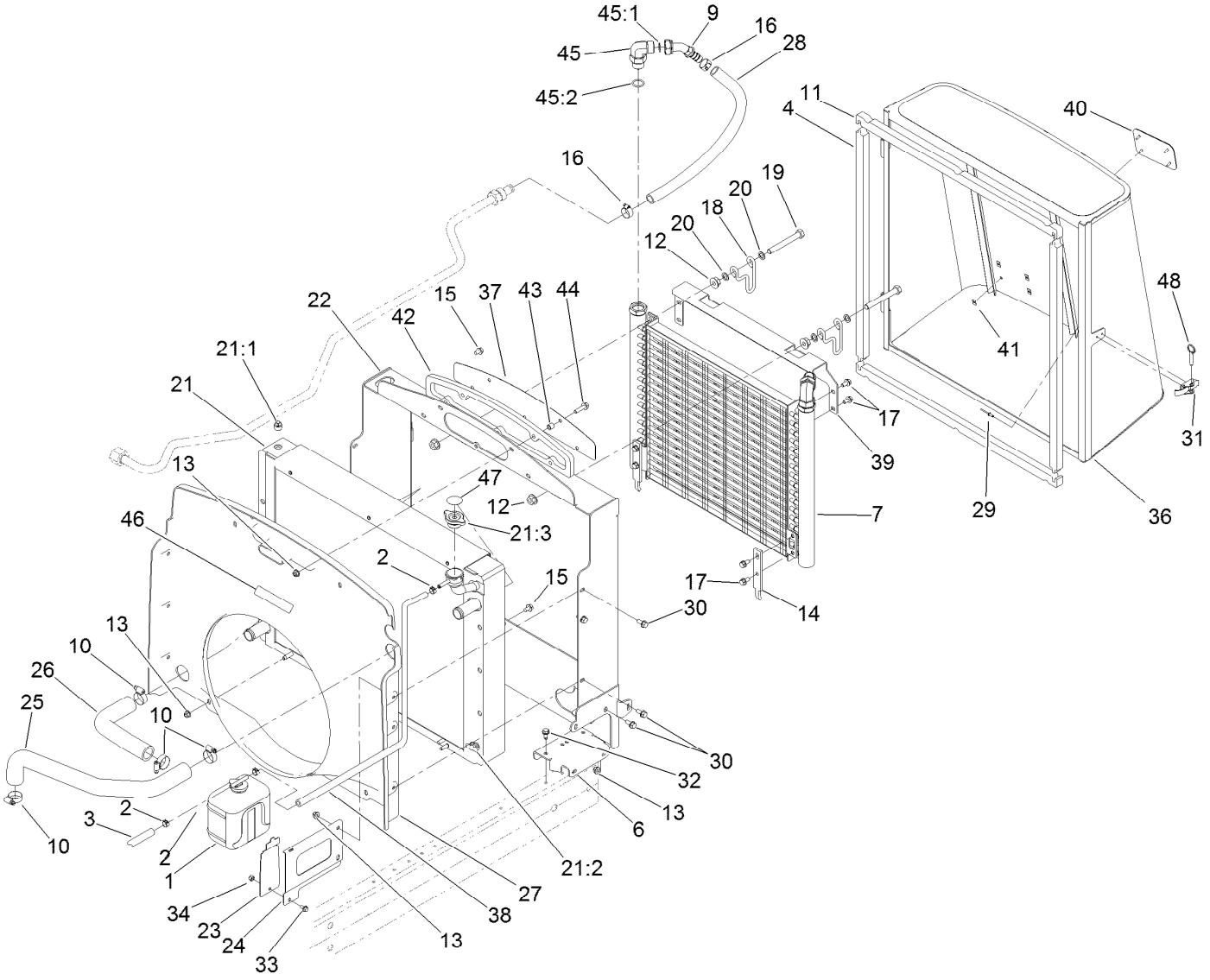
Ref.	*Part Number*	*Qty.*	*Description*
2	108-3812	1	Filter-Air
3	93-5986	1	Cover ASM
4	87-9400	1	Valve-Vacuator
5	285-17	1	Plug-Pipe



Fuel System Delivery Assembly

Ref.	Part Number	Qty.	Description
1	110-8806	1	Pump-Fuel
3	92-2379	5	Clamp-Hose
4	110-9044	1	Seperator Filter ASM
4:1	110-9049	1	Filter-Spin On
5	353-783	2	Fitting-Straight
6	32144-110	1	Screw-HWH
7	3230-22	2	Screw-CARR
8	3234-4	2	Screw-HHF
9	3296-42	2	Nut-Lock, NI
10	109-0309	2	Hose-Fuel
11	322-5	1	Screw-HH
12	104-8300	3	Nut-Flange, NI
13	110-9007-03	1	Support-Cable, Throttle
15	110-8968-01	1	Mount-Separator, Water
17	110-8817	1	Bracket-Pump, Fuel
18	110-3259	1	Hose-Fuel

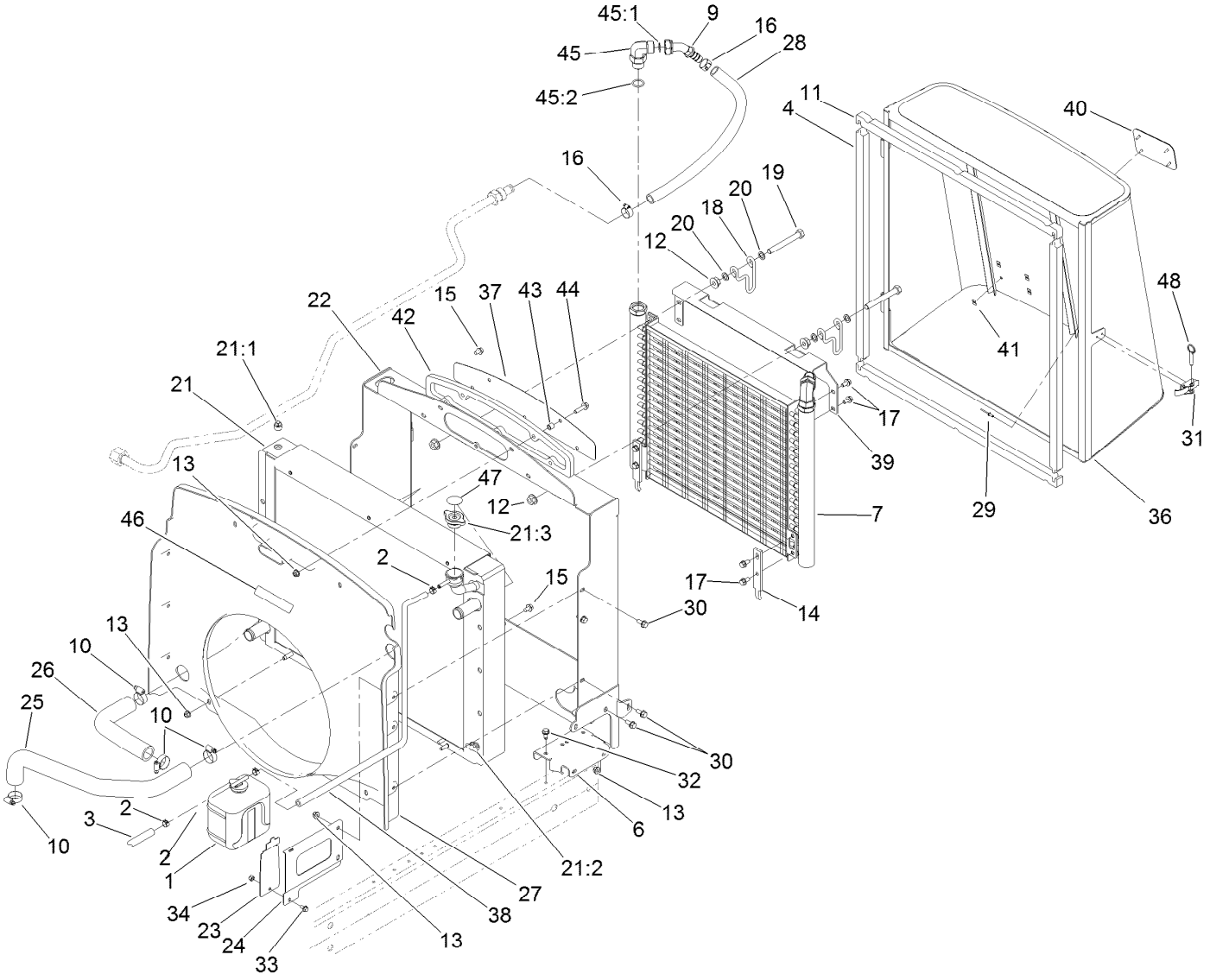
Ref.	Part Number	Qty.	Description
19	117-0298	1	Hose-Fuel
20	112-9919	1	Stop-Cable, Throttle
21	2412-149	2	Clamp-Hose
22	2412-80	1	Clamp-Hose
23	3290-378	5	Tie-Cable
24	3296-2	1	Nut-Lock, NI
25	32105-13	1	Screw-HWH
26	81-1690	1	Clamp-Cable
27	3296-20	1	Nut-Lock, NI
28	98-9311	1	Swivel-Throttle
29	32104-32	4	Screw-HWH
30	2412-41	1	Clamp
32	110-9009-03	1	Bracket-Cable, Throttle
33	33114-016	1	Screw-HH
34	63-7790	1	Screw-Cap



Radiator and Hydraulic Cooler Assembly

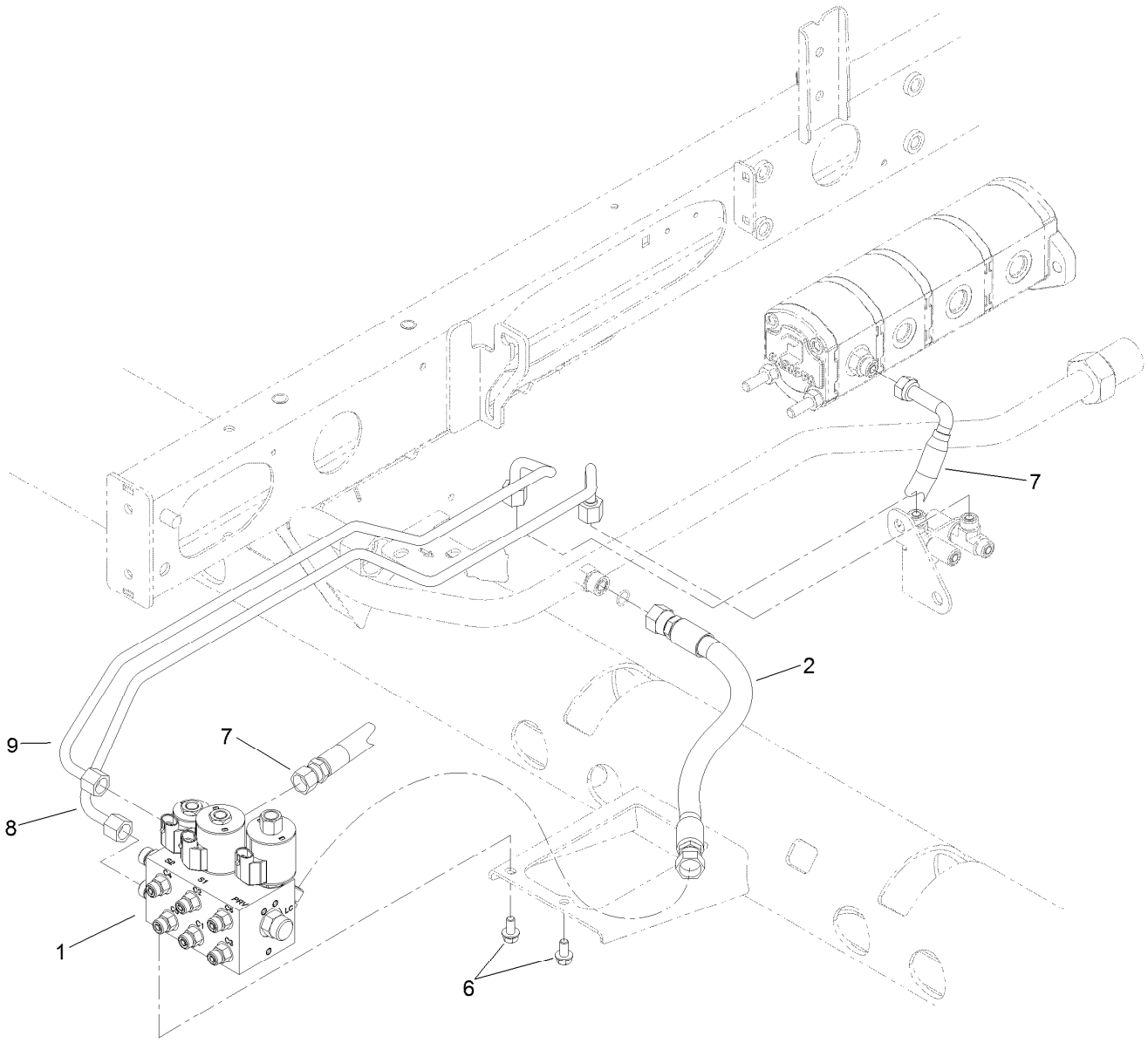
Ref.	Part Number	Qty.	Description
1	104-9318	1	Bottle-Overflow
2	92-2379	3	Clamp-Hose
3	110-3257	1	Hose-Fuel
4	110-5275	2	Seal-Foam
6	110-5310-01	2	Bracket-Mounting
7	110-0485	1	Cooler-Oil
9	104-7851	2	Fitting-HYD, 45 DEG
10	2412-34	4	Clamp-Hose
11	110-5276	2	Seal-Foam
12	32128-49	4	Nut-HHF
13	104-8300	17	Nut-Flange, NI
14	104-5460-03	2	Plate-Mount, Oil Cooler
15	3234-30	6	Screw-HHF
16	2412-129	4	Clamp-Hose
17	3234-14	8	Screw-HHF
18	104-5429	2	Clamp-Form, Wire
19	325-17	2	Screw-HH
20	41-8440	4	Washer
21	117-8093	1	Radiator ASM
21:1	281-13	1	Plug-Pipe
21:2	304-46	1	Draincock

Ref.	Part Number	Qty.	Description
21:3	93-5957	1	Cap-Radiator
22	110-5251-03	1	Frame-Radiator
23	108-1665-03	1	Bracket-Reservior
24	108-1666-03	1	Bracket-Reservoir
25	110-8942	1	Hose-Formed
26	110-8943	1	Hose-Formed
27	110-5311	1	Shroud-Fan
28	110-8955	2	Hose ASM
29	3269-15	2	Rivet-Pop
30	3234-5	10	Screw-HHF
31	115-1554	1	Latch-Draw
32	32104-32	6	Screw-HWH
33	3234-13	1	Screw-HHF
34	3296-42	1	Nut-Lock, NI
36	110-5269-03	1	Screen
37	108-1843-03	1	Screen-Intake, Air
38	110-4104	1	Hose-Fuel
39	104-5428	1	Bracket-Oil Cooler, Top
40	93-6028	1	Plate-Logo
41	94-2638	4	Nut-Tinnerman
42	110-5324	1	Seal-Foam



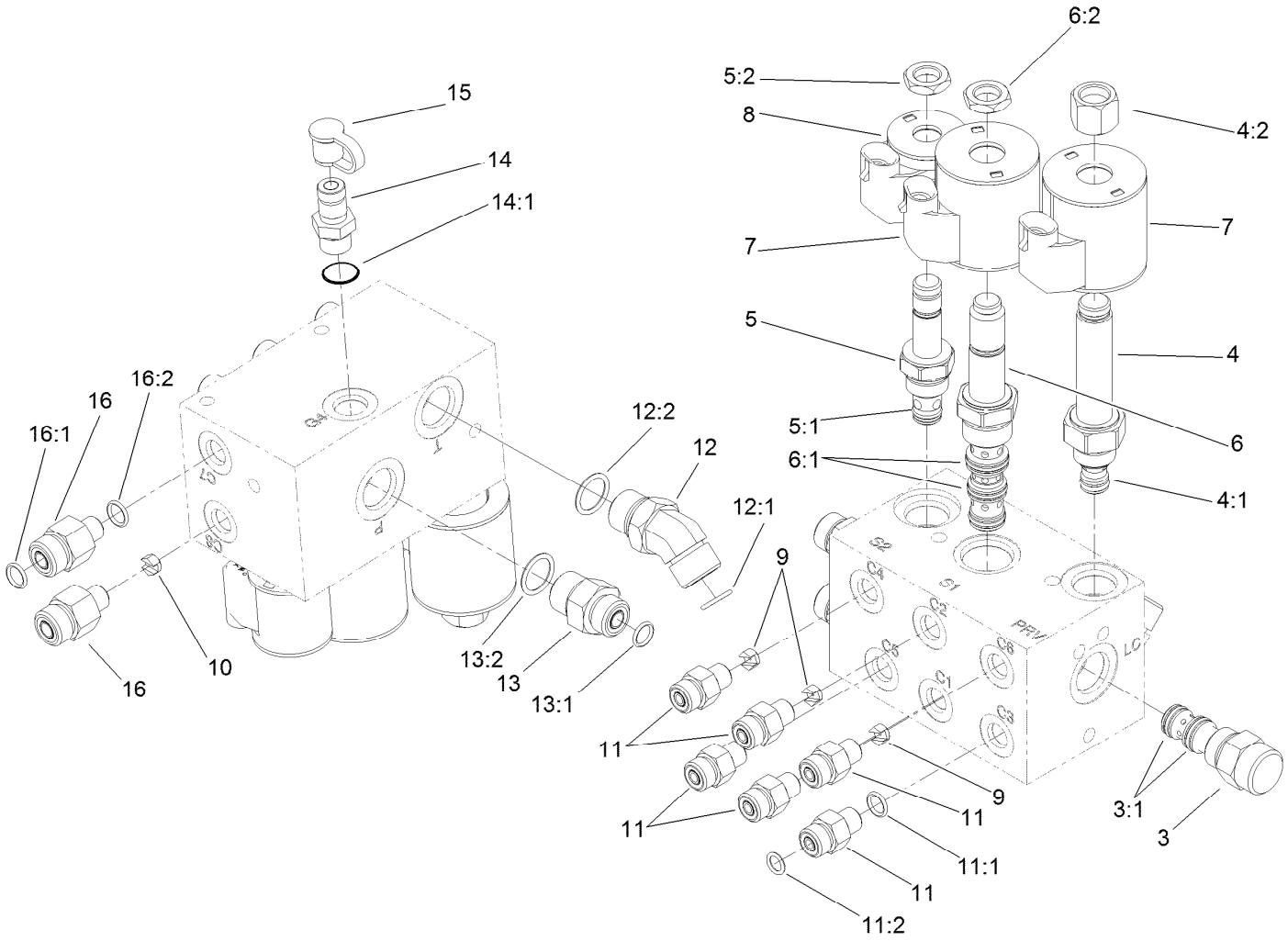
Radiator and Hydraulic Cooler Assembly (continued)

Ref.	Part Number	Qty.	Description
43	1-603903	5	Spacer
44	3234-36	5	Screw-HHF
45	340-142	2	Fitting-HYD, 90 DEG
45:1	237-58	1	O-Ring
45:2	237-81	1	O-Ring
46	93-7272	1	Decal-Warning
47	106-6755	1	Decal-Cap, Radiator
48	115-1556	1	Pin-Ball, Detent



Hydraulic Lift Block and Plumbing Assembly

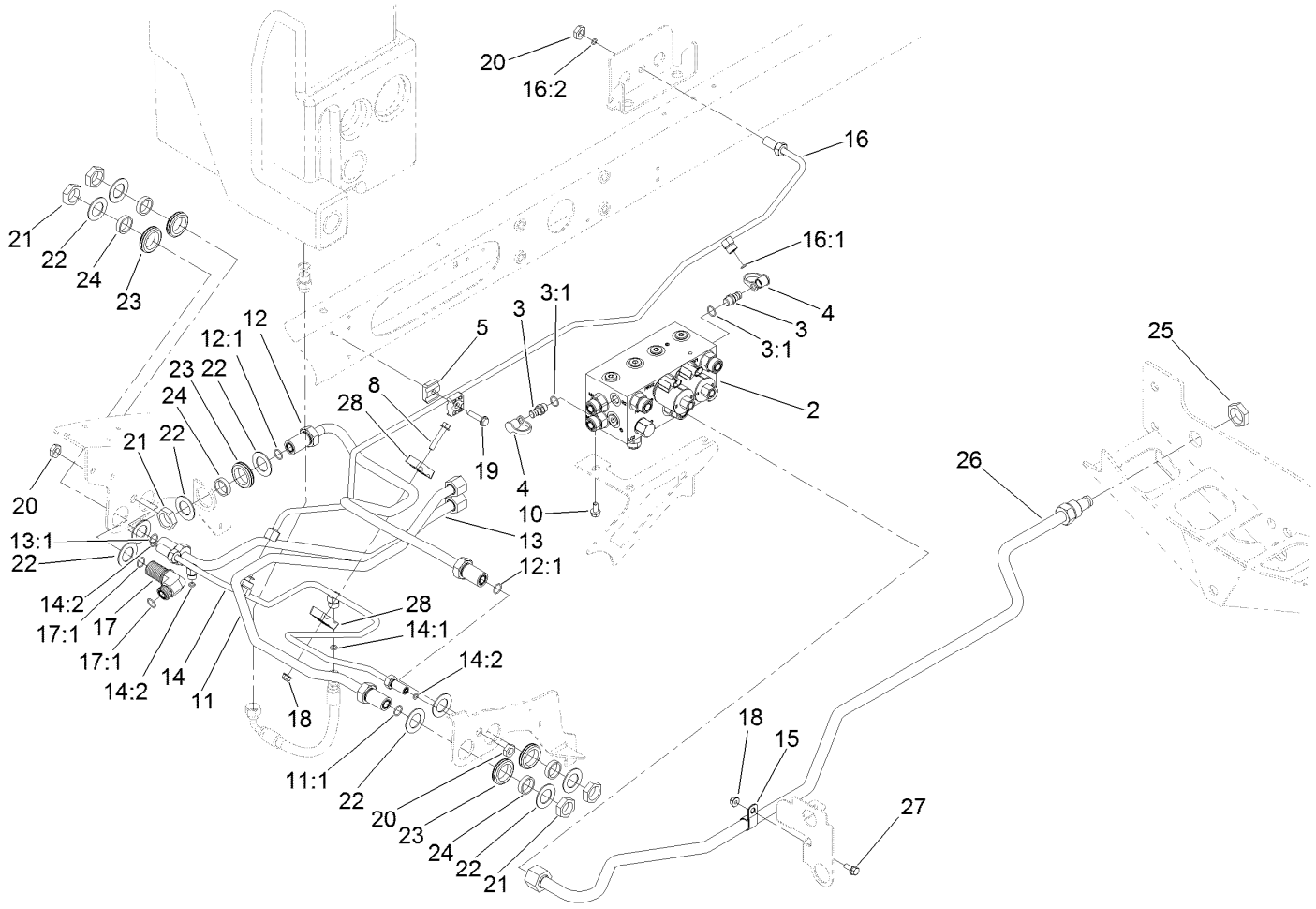
Ref.	*Part Number*	*Qty.*	*Description*
1	117-0158	1	Lift Control Manifold ASM
2	117-0180	1	Hose-HYD
6	3234-14	2	Screw-HHF
7	92-5694	1	Hose-Hydraulic
8	117-0175	1	Tube-HYD
9	117-0176	1	Tube-HYD



Lift Control Manifold Assembly No. 117-0158

Ref.	Part Number	Qty.	Description
3	117-0228	1	Element-Directional, Pilot
3:1	115-5413	1	Seal Kit
4	117-0227	1	Valve-Relief, Proportional
4:1	105-9156	1	Seal Kit
4:2	119-2160	1	Nut-Coil
5	107-7516	1	Solenoid Valve ASM
5:1	105-9156	1	Seal Kit
5:2	110-2634	1	Nut-Coil
6	110-8906	1	Valve-Solenoid
6:1	110-8908	1	Spool Valve Seal Kit
6:2	110-2634	1	Nut-Coil
7	110-6344	2	Coil-12V, Dc
8	110-0497	1	Coil-Solenoid
9	110-8902	3	Orifice-Control, Flow (0.046)
10	114-4682	1	Orifice-Flow Control (.030)
11	340-92	6	Fitting-HYD, Straight

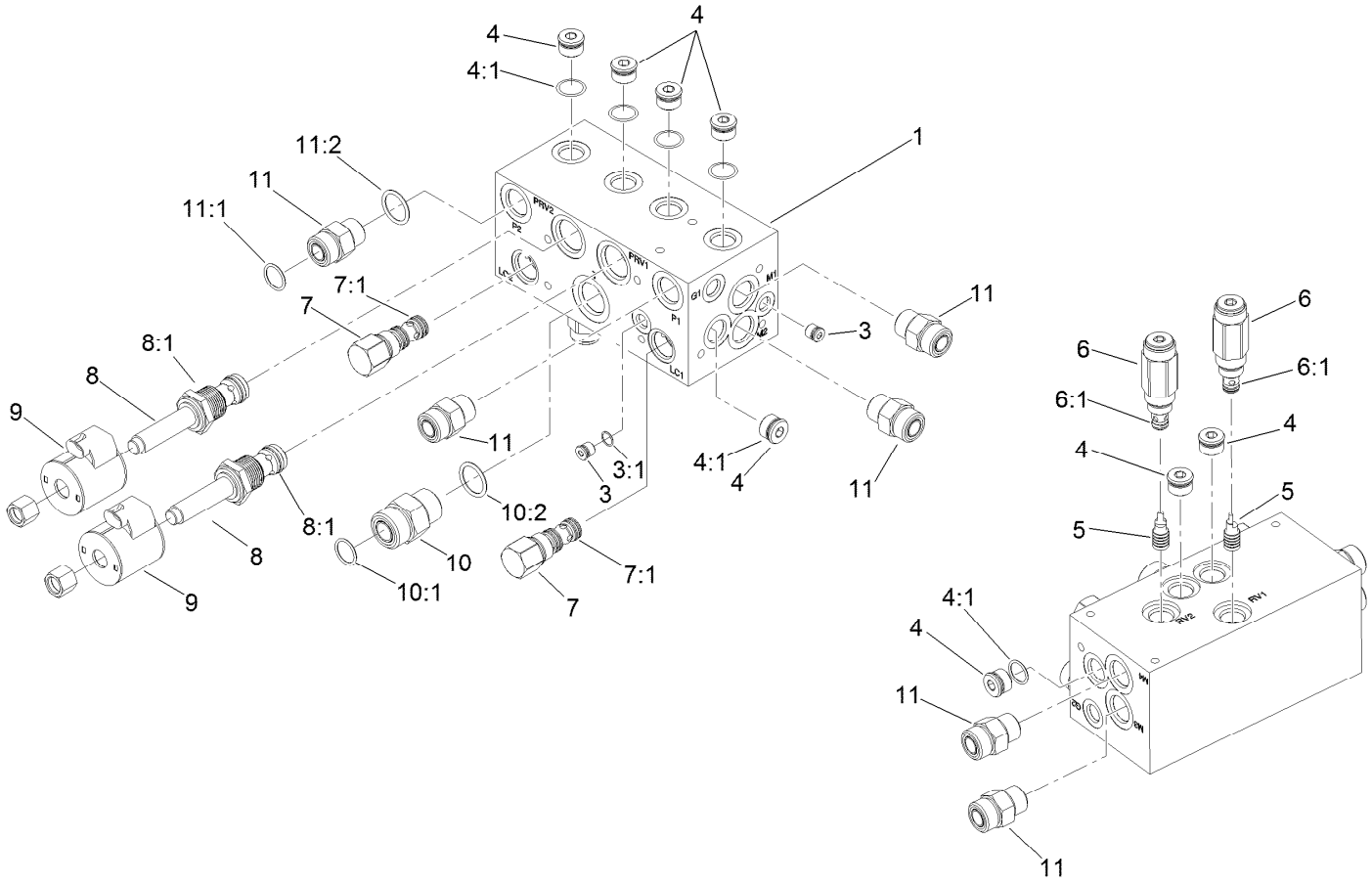
Ref.	Part Number	Qty.	Description
11:1	237-78	1	O-Ring
11:2	237-21	1	O-Ring
12	340-101	1	Fitting-HYD, 45 DEG
12:1	237-30	1	O-Ring
12:2	237-79	1	O-Ring
13	340-3	1	Adapter
13:1	237-22	1	O-Ring
13:2	237-79	1	O-Ring
14	59-7410	1	Fitting-Diagnostic
14:1	237-42	1	O-Ring
15	354-79	1	Cap-Dust
16	340-88	2	Adapter
16:1	237-22	1	O-Ring
16:2	237-78	1	O-Ring



Reel Control Block Hydraulic Plumbing Assembly

Ref.	Part Number	Qty.	Description
2	114-0359	1	Deck Control Manifold ASM
3	59-7410	2	Fitting-Diagnostic
3:1	237-42	1	O-Ring
4	354-79	2	Cap-Dust
5	56-7972	2	Clamp-Tube
8	94-5780	1	Screw-HWH
10	3234-14	3	Screw-HHF
11	117-0138	1	Tube ASM
11:1	237-65	1	O-Ring
12	117-0137	1	Tube ASM
12:1	237-65	2	O-Ring
13	117-0139	1	Tube ASM
13:1	237-65	1	O-Ring
14	110-5286	1	Tube ASM
14:1	237-22	2	O-Ring
14:2	237-21	3	O-Ring
15	2412-4	1	Clamp

Ref.	Part Number	Qty.	Description
16	114-8888	1	Tube ASM
16:1	237-22	1	O-Ring
16:2	237-21	1	O-Ring
17	340-72	1	Fitting-Bulkhead, 90 DEG
17:1	237-65	2	O-Ring
18	104-8300	2	Nut-Flange, NI
19	32144-57	1	Screw
20	340-78	3	Nut-Lock, Bulkhead
21	340-74	5	Nut-Lock, Bulkhead
22	69-9010	10	Washer
23	240-3	5	Grommet-Rubber
24	69-9000	5	Spacer
25	340-126	1	Nut-Bulkhead
26	108-1700	1	Tube ASM
27	3234-5	1	Screw-HHF
28	56-7970	2	Clamp-Tube

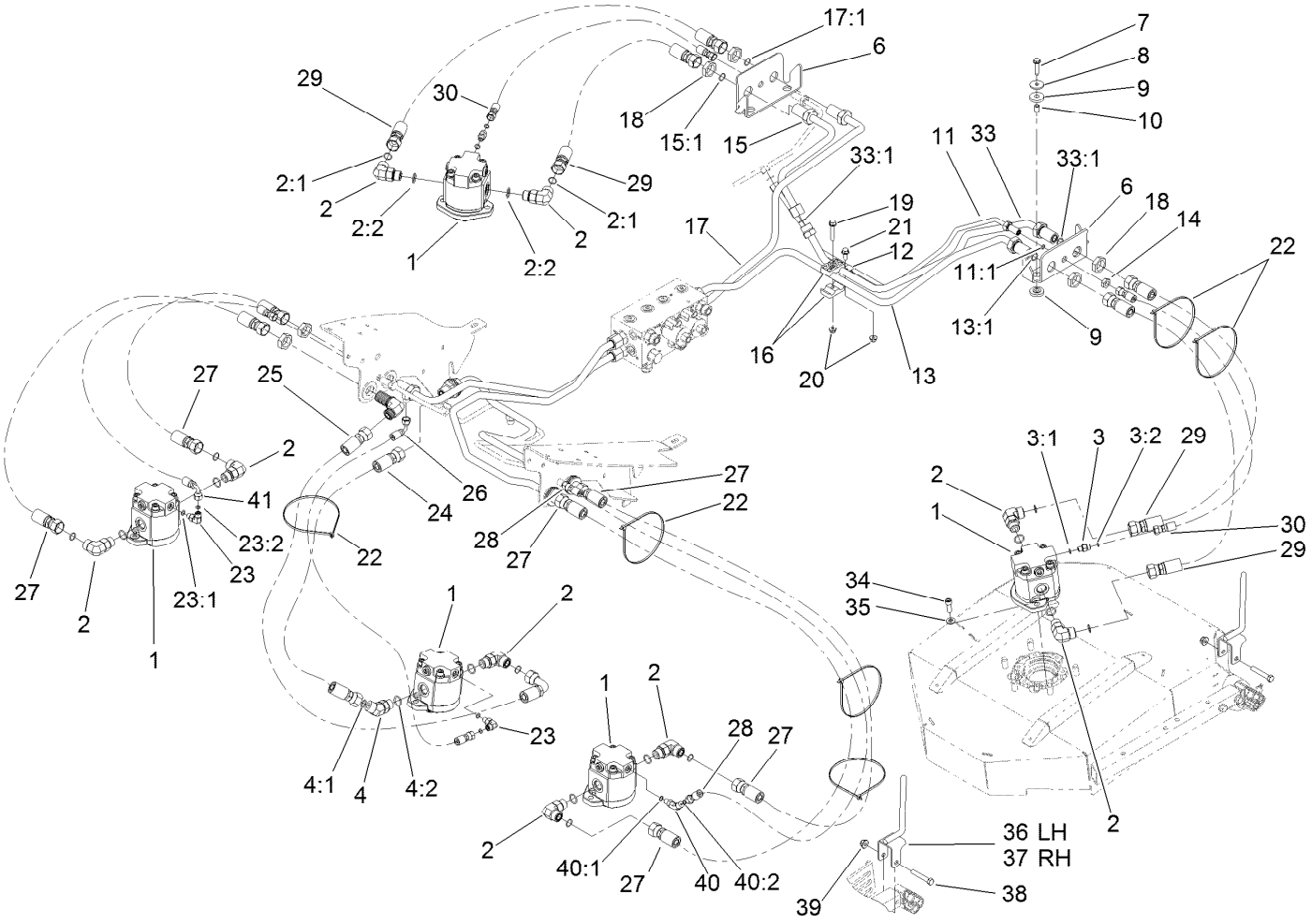


Deck Control Manifold Assembly No. 114-0359

Ref.	*Part Number*	*Qty.*	*Description*
1		1	Hydraulic Manifold ●
3	106-1025	2	Plug-HYD
3:1	237-78	1	O-Ring
4	106-1027	8	Plug-HYD
4:1	237-79	1	O-Ring
5	105-9157	2	Piston-Pilot
6	112-5259	2	Valve-Relief
6:1	105-9156	1	Seal Kit
7	105-9153	2	Element-Logic, Vented
7:1	105-9154	1	Seal Kit

Ref.	*Part Number*	*Qty.*	*Description*
8	117-0229	2	Valve-Relief, Proportional
8:1	117-1114	1	Seal Kit
9	110-6344	2	Coil-12V, Dc
10	340-9	1	Fitting-HYD, Straight
10:1	237-58	1	O-Ring
10:2	237-81	1	O-Ring
11	340-7	2	Adapter
11:1	237-65	1	O-Ring
11:2	237-80	1	O-Ring

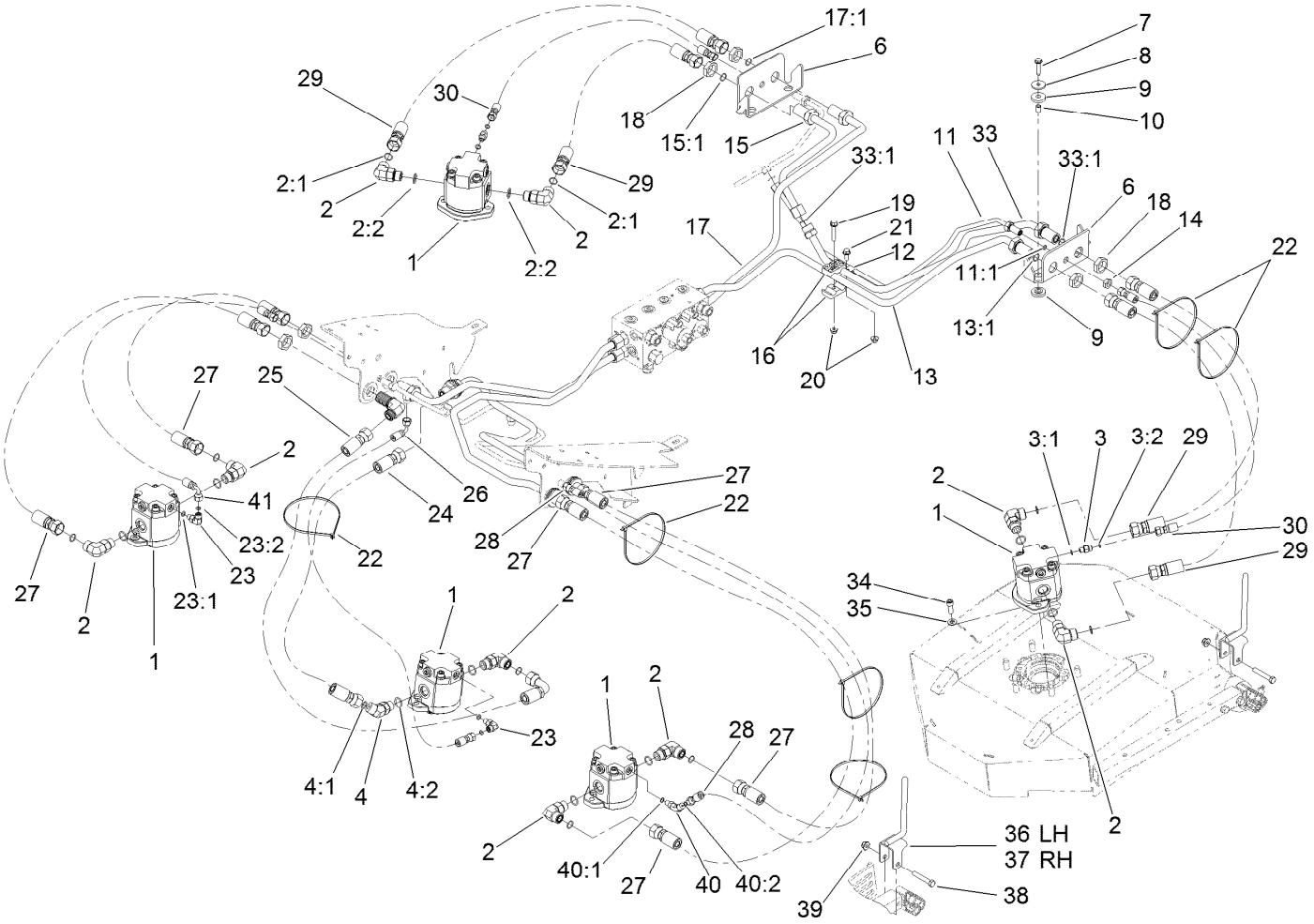
● Not serviced separately



Rear Deck Drive System Plumbing and Front Hose Assembly

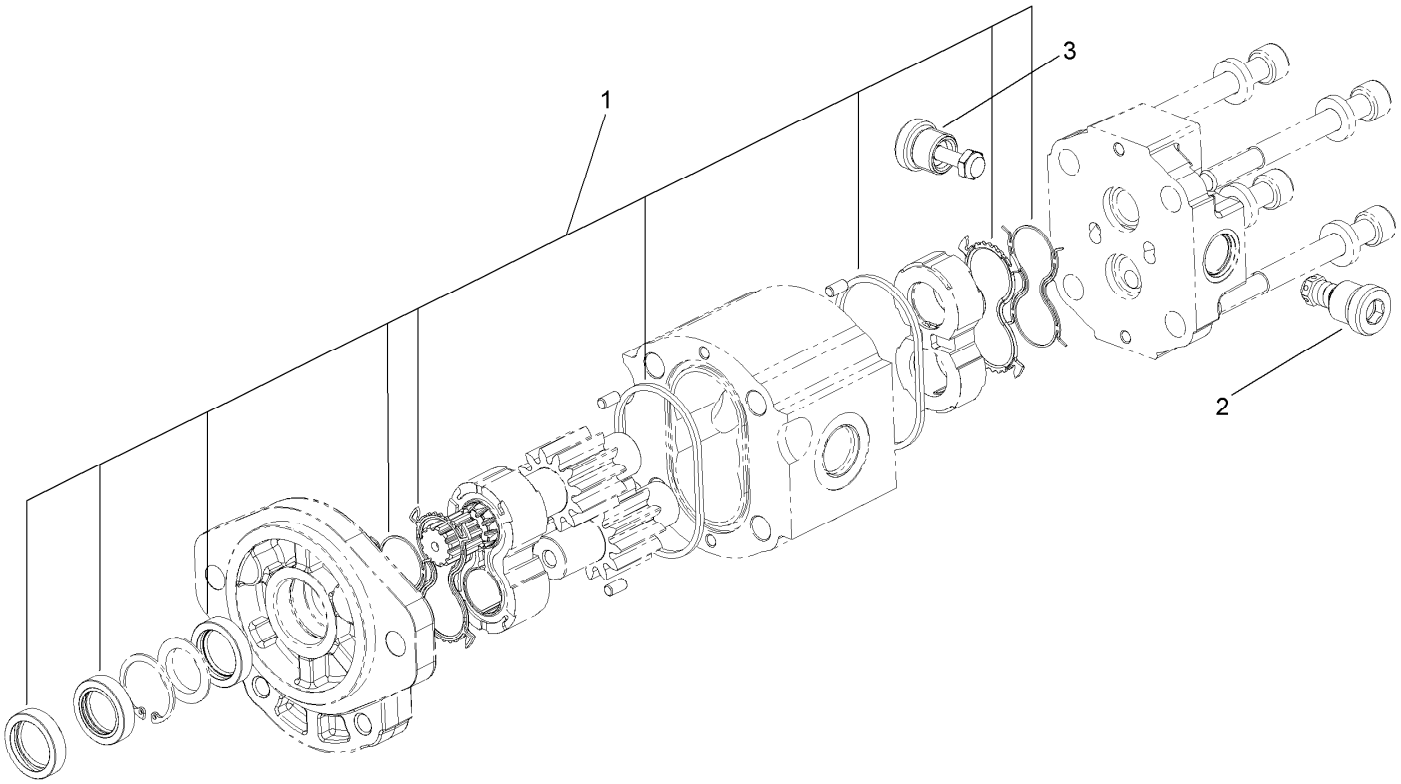
Ref.	Part Number	Qty.	Description
1	108-4004	5	Gear Motor ASM
2	340-17	9	Fitting-HYD, 90 DEG
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	340-92	2	Fitting-HYD, Straight
3:1	237-78	1	O-Ring
3:2	237-21	1	O-Ring
4	340-14	1	Fitting-HYD, 45 DEG
4:1	237-65	1	O-Ring
4:2	237-80	1	O-Ring
6	117-0174-03	2	Bracket-Bulkhead
7	32144-57	4	Screw
8	105-3048	4	Washer-Flat
9	240-11	8	Bushing-Flange
10	99-8611	4	Spacer
11	114-8887	1	Tube ASM
11:1	237-21	1	O-Ring
12	2412-113	1	Clamp
13	117-0142	1	Tube ASM

Ref.	Part Number	Qty.	Description
13:1	237-65	1	O-Ring
14	340-78	1	Nut-Lock, Bulkhead
15	117-0140	1	Tube ASM
15:1	237-65	1	O-Ring
16	56-7971	2	Clamp-Tube
17	117-0141	1	Tube ASM
17:1	237-65	1	O-Ring
18	340-74	4	Nut-Lock, Bulkhead
19	94-5780	1	Screw-HWH
20	104-8300	2	Nut-Flange, NI
21	3234-5	1	Screw-HHF
22	3334-945	15	Tie-Cable
23	340-132	2	Fitting-HYD, 90 DEG
23:1	237-78	1	O-Ring
23:2	237-21	1	O-Ring
24	117-0213	1	HYD Hose ASM
25	117-0211	1	HYD Hose ASM
26	117-0212	1	HYD Hose ASM
27	117-0299	4	HYD Hose ASM



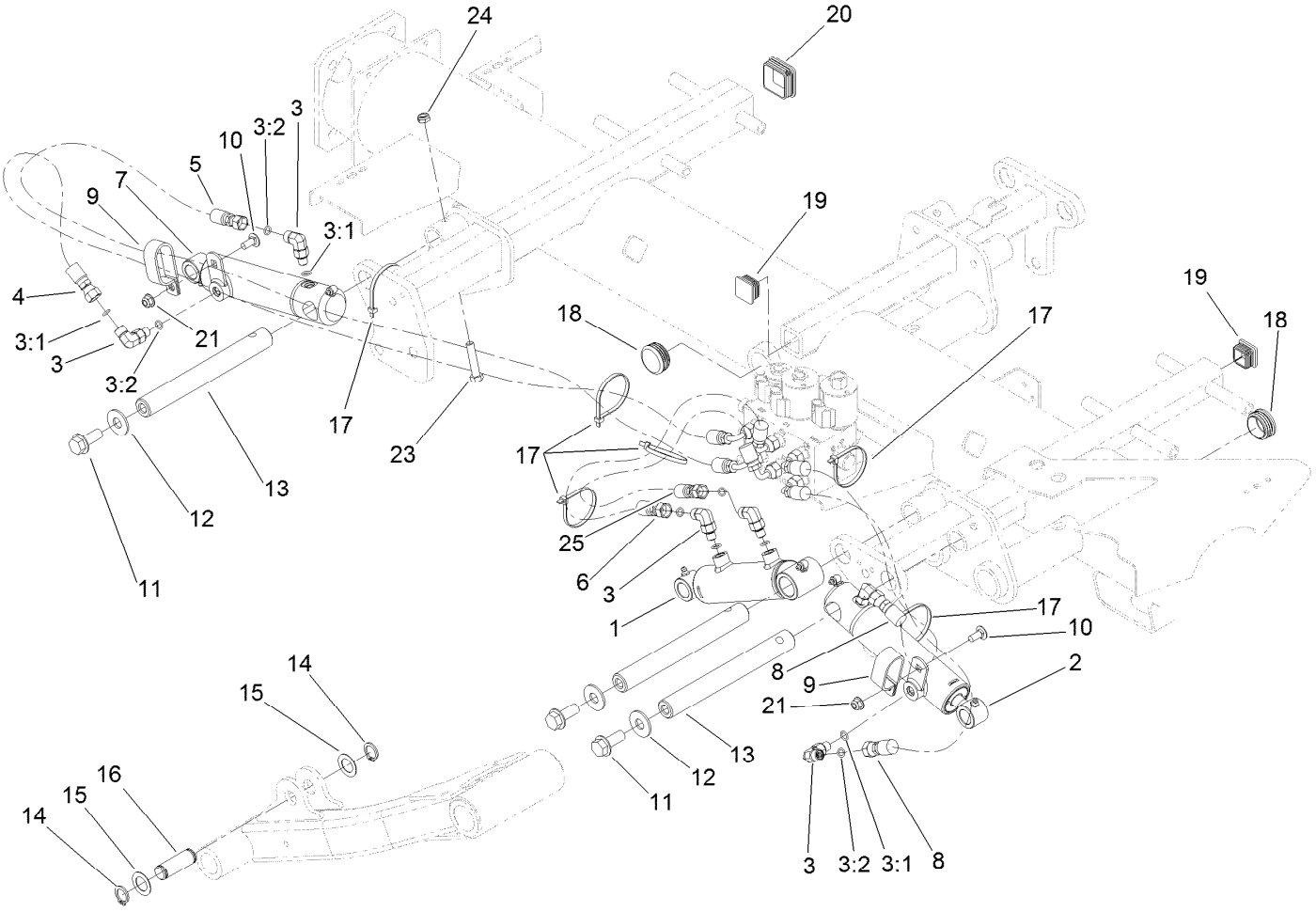
Rear Deck Drive System Plumbing and Front Hose Assembly (continued)

Ref.	Part Number	Qty.	Description
28	104-9323	1	HYD Hose ASM
29	105-1215	4	Hose-HYD
30	108-6507	2	Hose ASM
33	117-0177	1	Tube ASM
33:1	237-65	2	O-Ring
34	3274-7	10	Screw-HSH
35	3256-24	10	Washer-Flat
36	117-0247-03	2	Guard-Foot, LH
37	117-0248-03	2	Guard-Foot, RH
38	323-11	4	Screw-HH
39	104-8301	4	Nut-Flange, NI
40	340-103	1	Fitting-HYD, 45 DEG
40:1	237-78	1	O-Ring
40:2	237-21	1	O-Ring
41	92-7638	1	Hose ASM



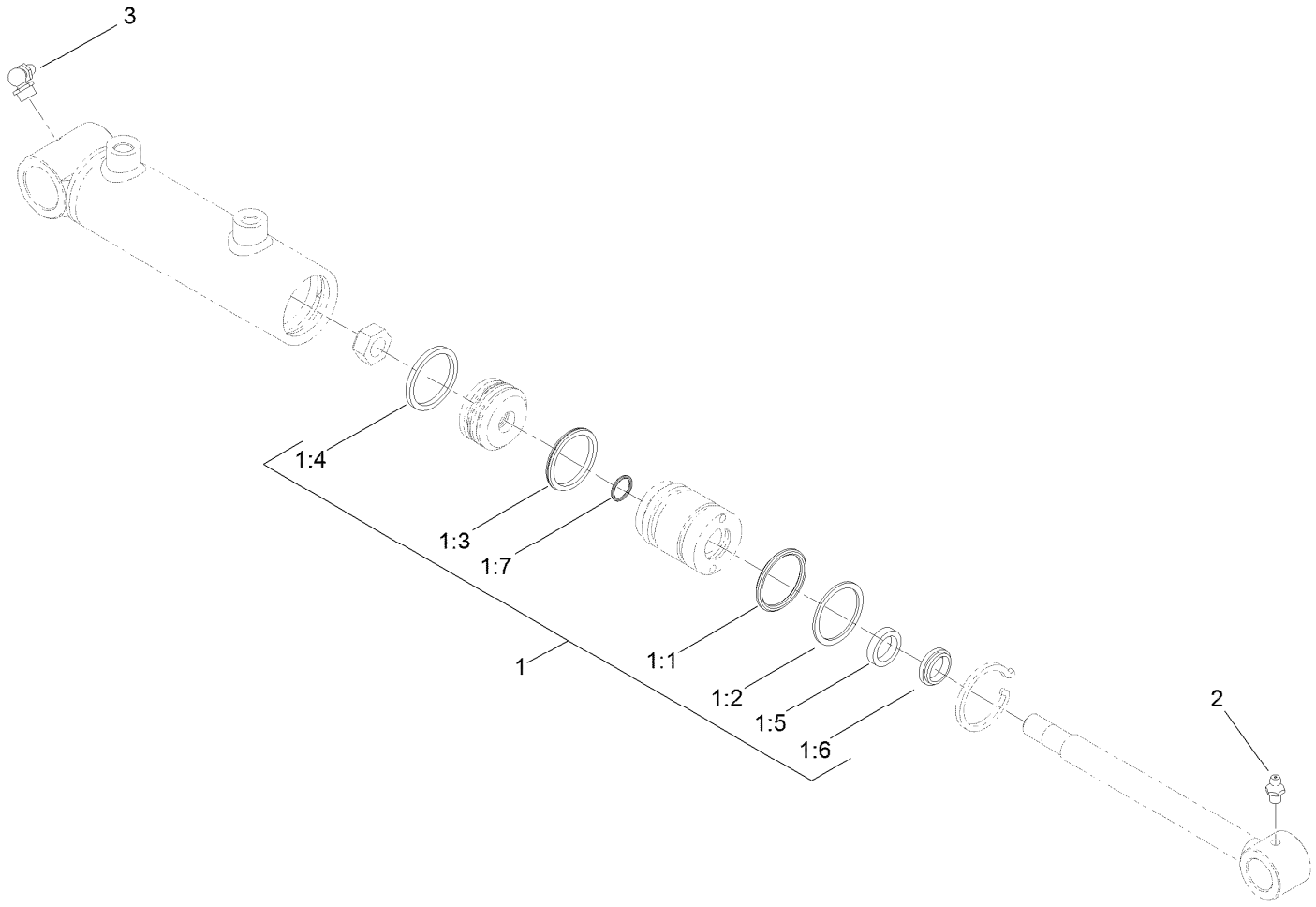
Gear Motor Assembly No. 108-4004

Ref.	*Part Number*	*Qty.*	*Description*
1	117-0235	1	Seal Kit
2	107-7820	1	Valve-Relief
3	107-7821	1	Valve-Anticavitation



Front Lift Cylinder and Plumbing Assembly

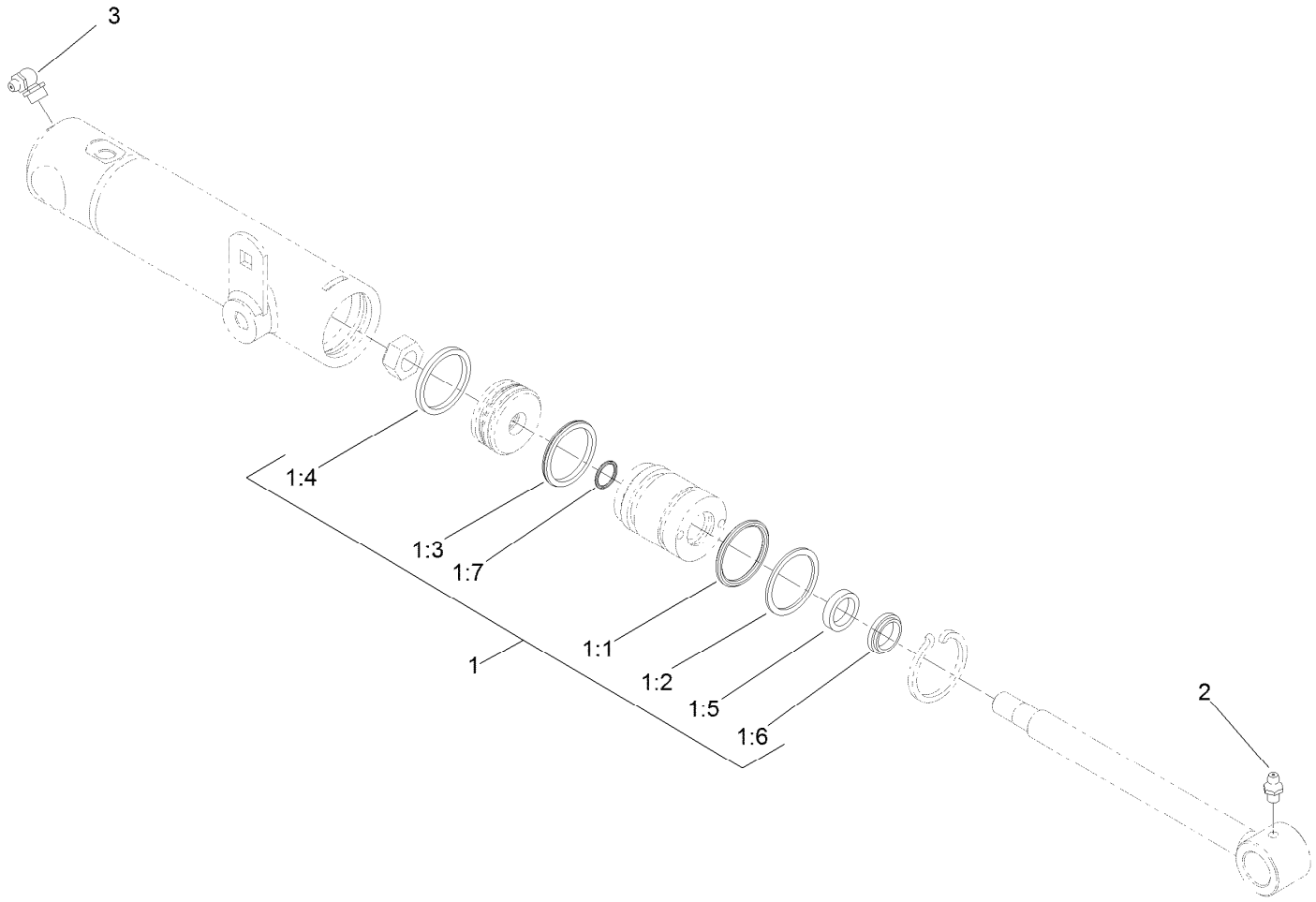
Ref.	Part Number	Qty.	Description
1	119-6989	1	HYD Cylinder ASM
2	119-6990	1	HYD Cylinder ASM
3	340-132	6	Fitting-HYD, 90 DEG
3:1	237-78	1	O-Ring
3:2	237-21	1	O-Ring
4	117-0262	1	Hose-HYD
5	117-0261	1	Hose-HYD
6	117-0253	1	Hose-HYD
7	119-6991	1	HYD Cylinder ASM
8	85-4940	2	Hose-HYD
9	2412-137	2	Clamp-R, Double
10	3230-23	2	Screw-CARR
11	3234-38	3	Screw-HHF
12	3256-6	3	Washer-Flat
13	117-0148	3	Pin-Cylinder
14	32120-93	6	Ring-Retaining
15	3-6498	6	Washer-Thrust
16	104-0046	3	Pin-Slide, Cylinder
17	3290-379	6	Tie-Cable
18	110-9012	5	Caplug
19	110-9013	2	Caplug
20	95-9495	1	Cap
21	104-8300	2	Nut-Flange, NI
23	323-9	3	Screw-HH
24	3296-59	3	Nut-Lock, NI
25	117-0254	1	Hp HYD Hose ASM



Hydraulic Cylinder Assembly No. 119-6989

Ref.	*Part Number*	*Qty.*	*Description*
1	119-6992	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Backup ●
1:3		1	Bp Seal ●
1:4		1	Wear Ring-Ht ●
1:5		1	Bs Seal ●
1:6		1	Dust Seal-Dt ●
1:7		1	O-Ring ●
2	302-5	1	Fitting-Grease
3	302-33	1	Fitting-Grease

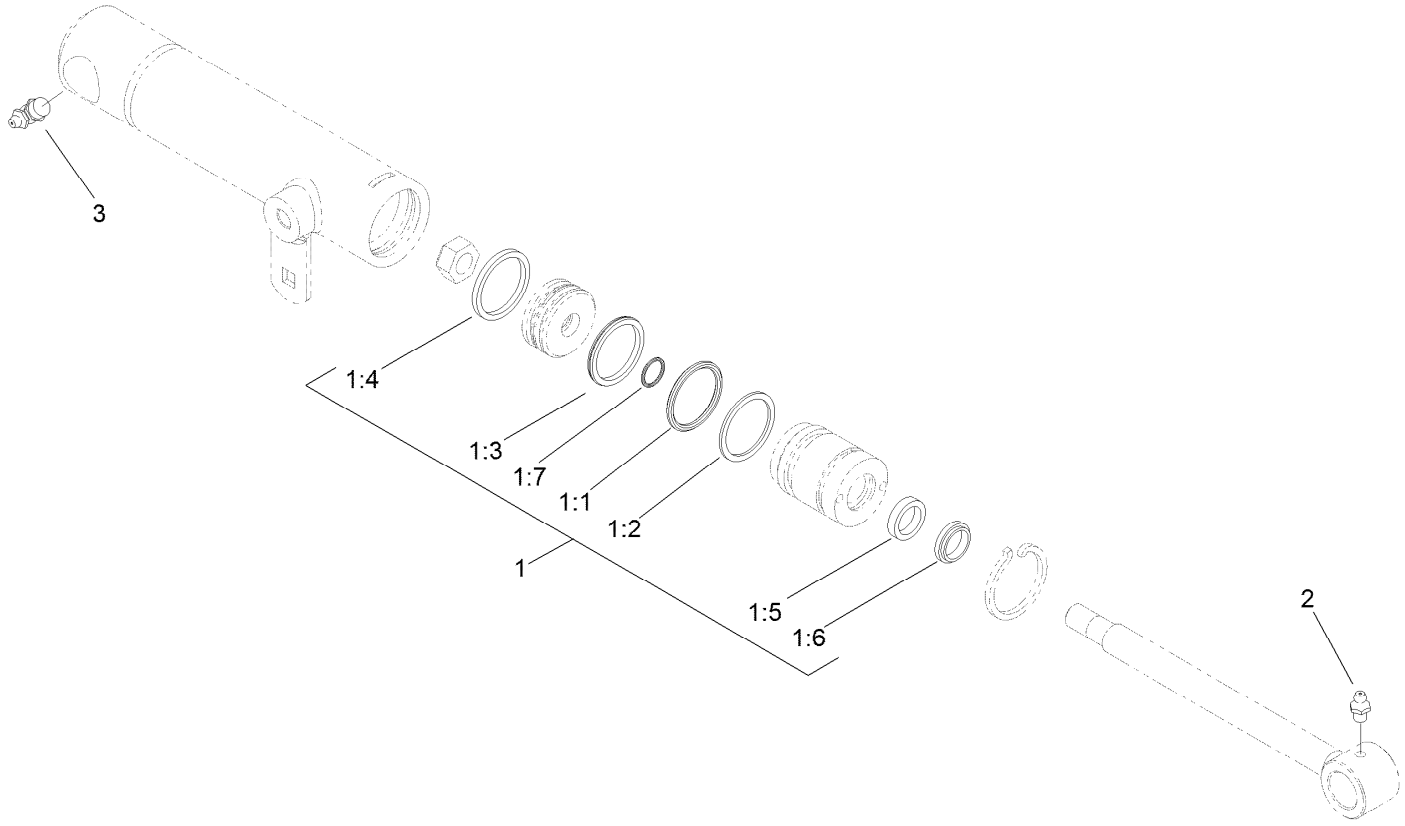
● Not serviced separately



Hydraulic Cylinder Assembly No. 119-6990

Ref.	*Part Number*	*Qty.*	*Description*
1	119-6992	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Backup ●
1:3		1	Bp Seal ●
1:4		1	Wear Ring-Ht ●
1:5		1	Bs Seal ●
1:6		1	Dust Seal-Dt ●
1:7		1	O-Ring ●
2	302-5	1	Fitting-Grease
3	302-33	1	Fitting-Grease

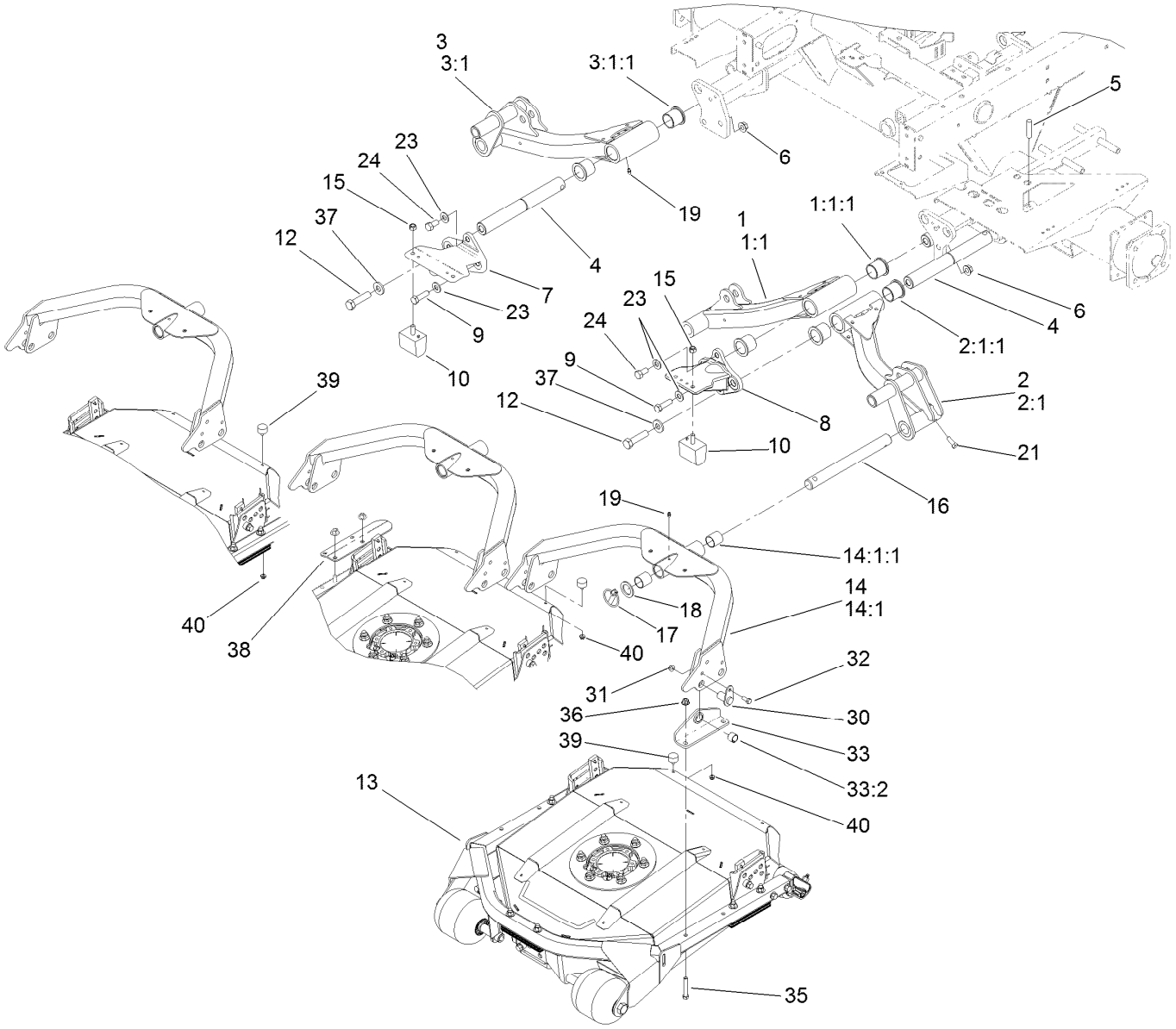
● Not serviced separately



Hydraulic Cylinder Assembly No. 119-6991

Ref.	*Part Number*	*Qty.*	*Description*
1	119-6992	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Backup ●
1:3		1	Bp Seal ●
1:4		1	Wear Ring-Ht ●
1:5		1	Bs Seal ●
1:6		1	Dust Seal-Dt ●
1:7		1	O-Ring ●
2	302-5	1	Fitting-Grease
3	302-33	1	Fitting-Grease

● Not serviced separately

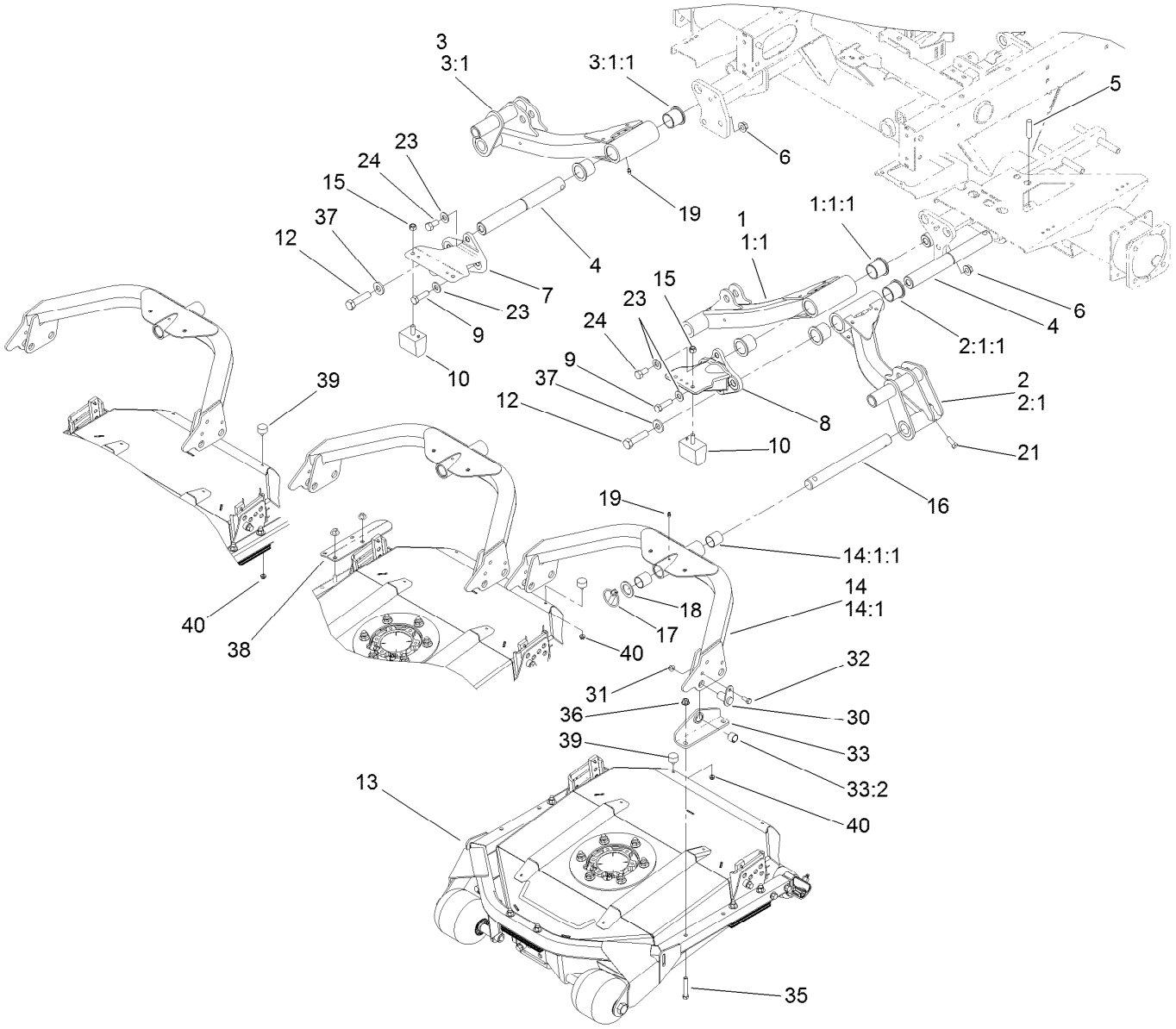


Front Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	114-0381-03	1	Arm No. 1 ASM
1:1		1	Arm 1 ●
1:1:1	69-6470	2	Bushing-Castor
2	114-0384-03	1	Arm No. 4 ASM
2:1		1	Arm 4 ●
2:1:1	69-6470	2	Bushing-Castor
3	114-0385-03	1	Arm No. 5 ASM
3:1		1	Arm 5 ●
3:1:1	69-6470	2	Bushing-Castor
4	117-0208	3	Shaft-Pivot, Liftarm
5	32121-122	3	Pin-Roll
6	99-5107	4	Nut-Lock
7	117-0250-03	1	Tippe-RH
8	117-0252-03	1	Tipper-LH
9	325-7	4	Screw-HH
10	87-3470	4	Bumper-Axle, Rear
12	327-7	3	Screw-HH

Ref.	Part Number	Qty.	Description
13	30845	3	22 Inch Contour Plus Replacement Deck
14	108-7384-03	3	Carrier Frame ASM
14:1		1	Frame-Carrier ●
14:1:1	108-4000	2	Bushing
15	33025-00	4	Nut-Lock, NI
16	95-8979	3	Shaft
17	283-71	3	Pin-Lynch
18	3-6781	3	Washer-Thrust
19	302-5	6	Fitting-Grease
21	323-6	3	Screw-HH
23	87-7270	6	Washer-Thrust
24	325-5	2	Screw-HH
30	117-0132	6	Pin ASM
31	104-8300	6	Nut-Flange, NI
32	322-3	6	Screw-HH
33	117-0118	6	Pivot ASM
33:2	108-8482	1	Bushing-Sleeve

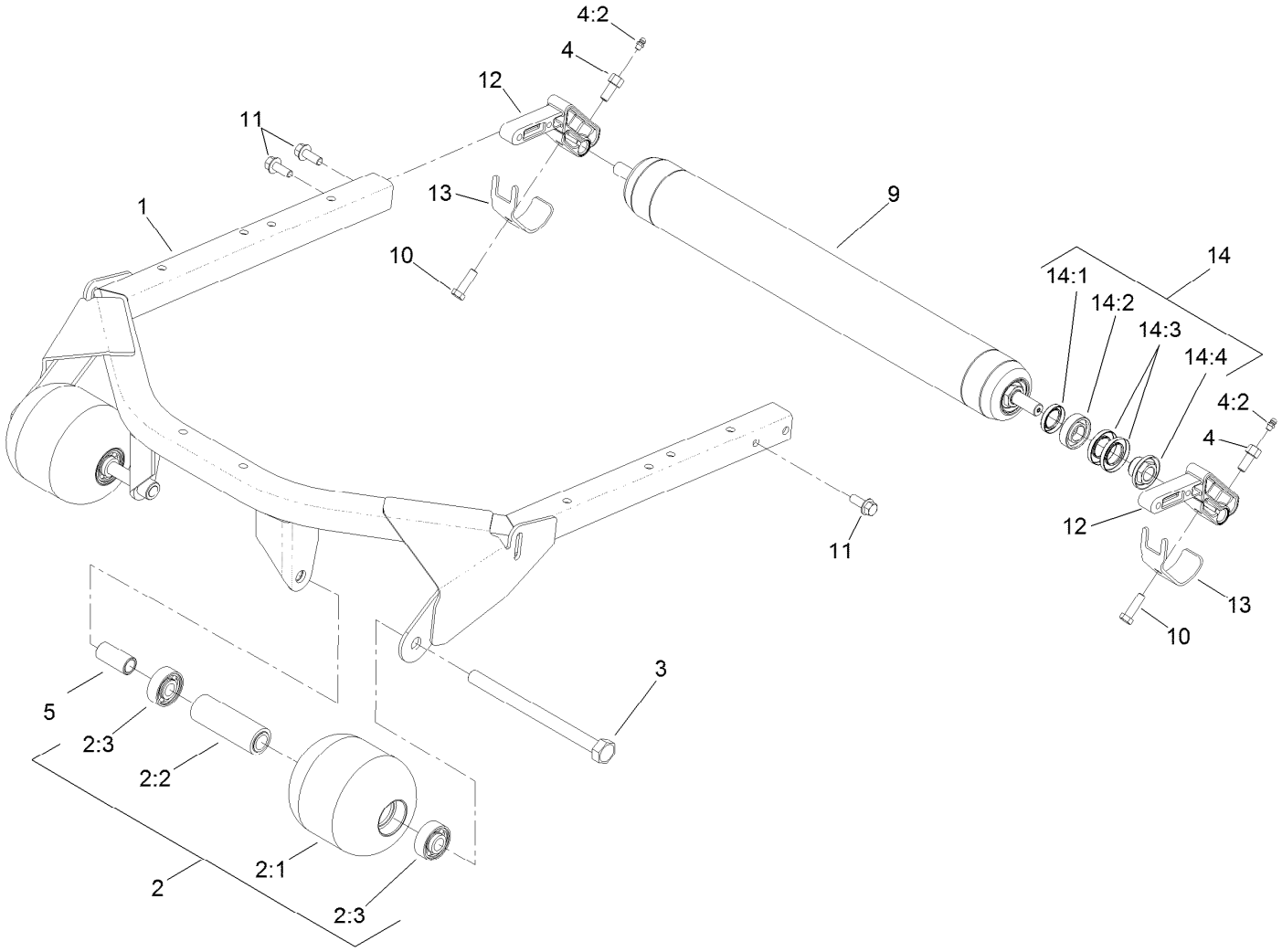
● Not serviced separately



Front Lift Arm Assembly (continued)

Ref.	Part Number	Qty.	Description
35	323-11	12	Screw-HH
36	104-8301	12	Nut-Flange, NI
37	99-7667	3	Washer-Flat
38	105-9831-03	1	Bracket-Bumper, No. 1
39	240-14	3	Bumper-Rubber
40	104-7201	3	Nut-HF

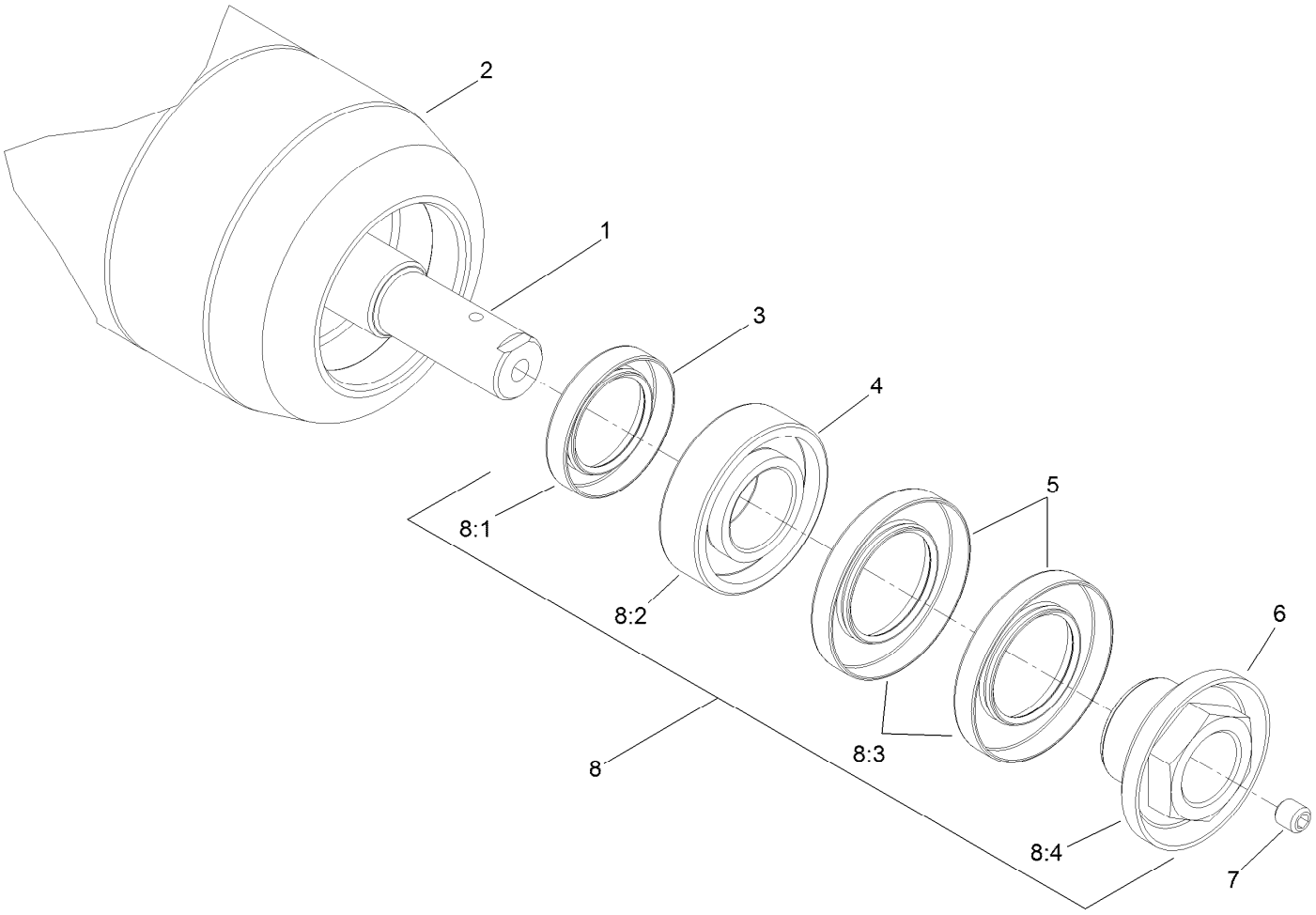
● Not serviced separately



Roller and Carrier Frame

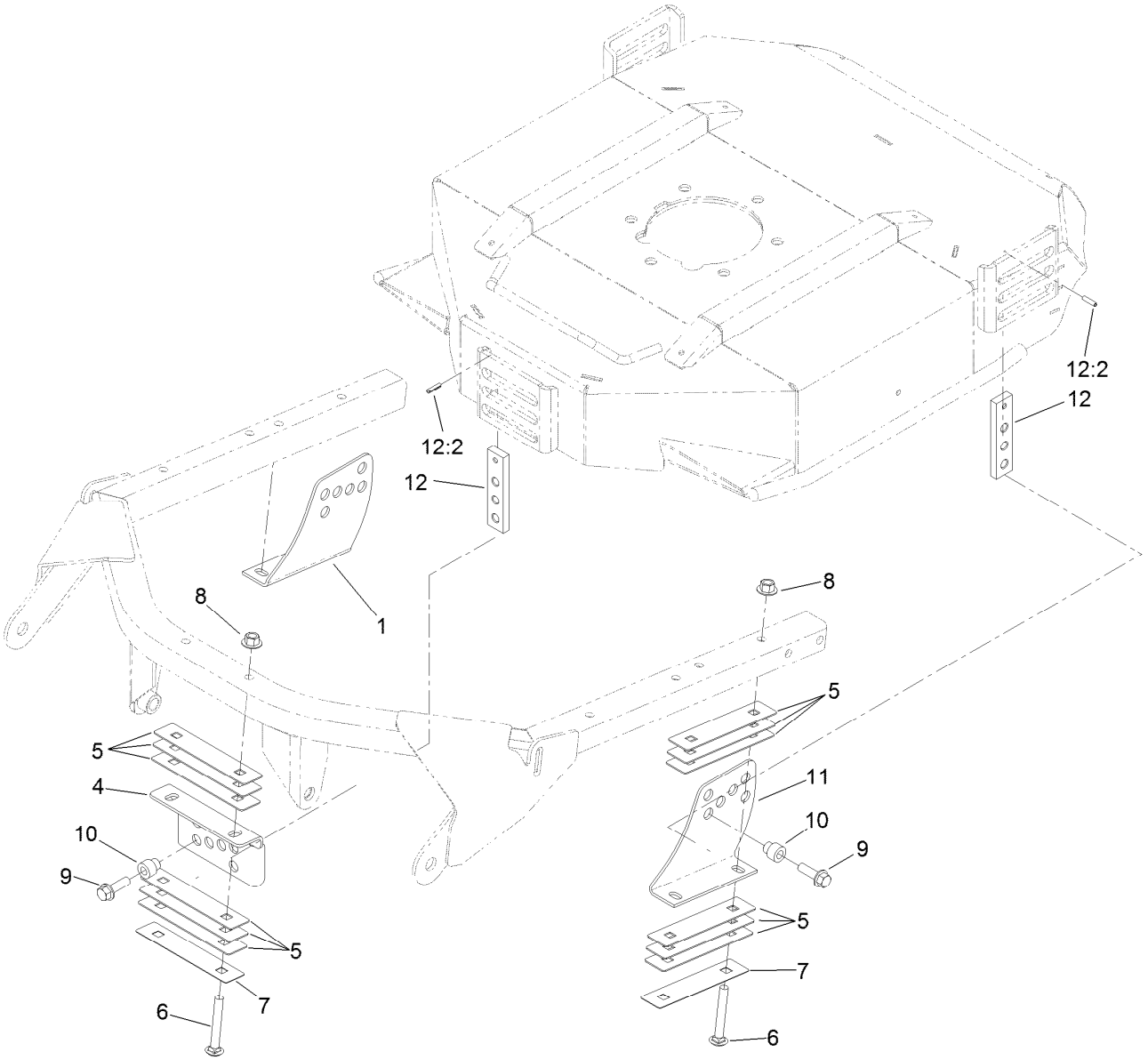
Ref.	Part Number	Qty.	Description
1	114-0440-03	1	Support-Deck
2	115-3418	2	Roller ASM
2:1	104-1093	1	Roller
2:2	100-5762	1	Spacer-Bearing
2:3	120-3366	2	Bearing
3	117-0172	2	Screw-HH
4	112-5270	2	Roller Shaft Screw ASM
4:2	302-5	1	Fitting-Grease
5	114-0430	2	Tube-Seg, Roller
9	108-7387	1	Roller ASM

Ref.	Part Number	Qty.	Description
10	323-7	2	Screw-HH
11	3234-11	4	Screw-HHF
12	112-5268	2	Mount-Roller
13	107-7816	2	Bracket-Skid
14	114-5430	1	Roller Rebuild Kit
14:1	114-3717	2	Seal-Oil
14:2	112-5290	2	Bearing-Steel, Stainless
14:3	112-7494	4	Seal
14:4	114-5411	2	Nut-Lock, Bearing



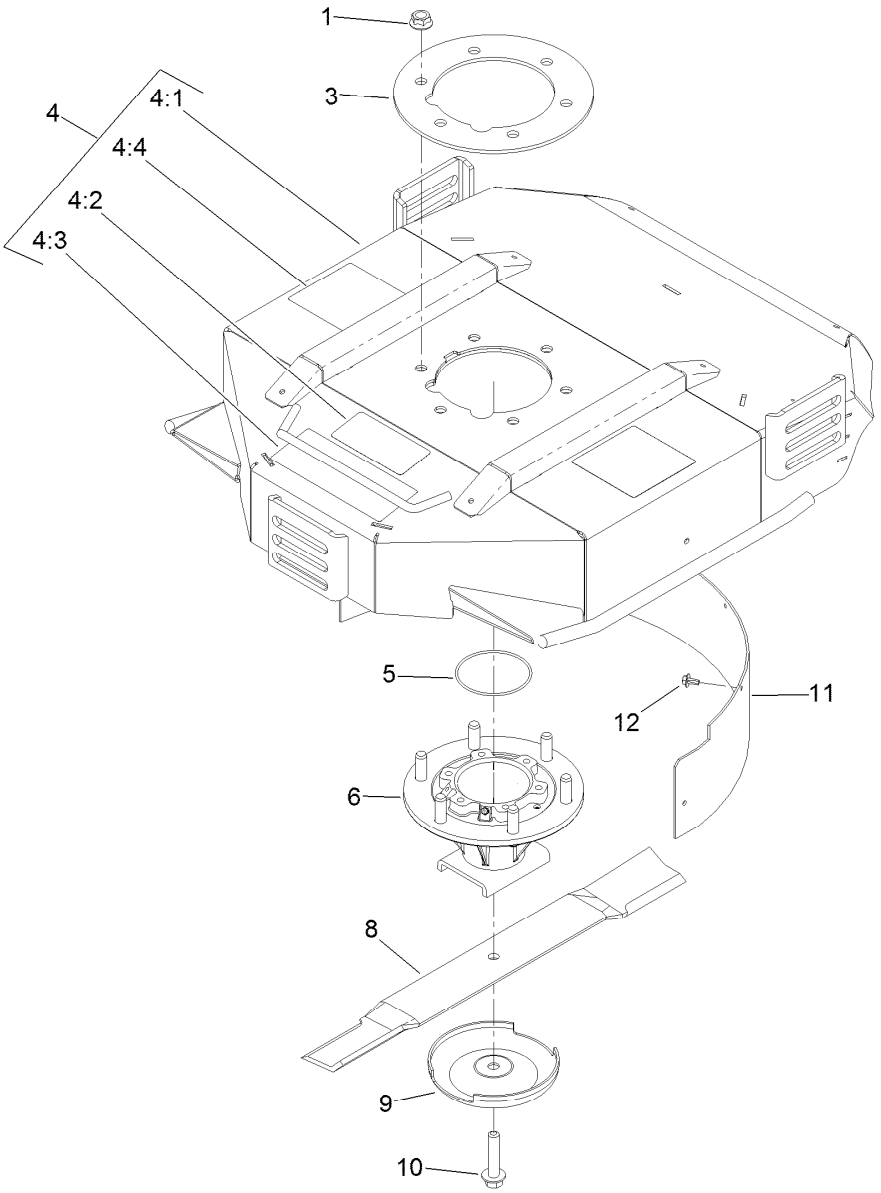
Roller Assembly No. 108-7387

Ref.	*Part Number*	*Qty.*	*Description*
1	108-7388	1	Shaft-Roller
2	108-7389-03	1	Roller Tube ASM
3	114-3717	2	Seal-Oil
4	112-5290	2	Bearing-Steel, Stainless
5	112-7494	4	Seal
6	114-3745	2	Nut-Lock, Bearing
7	108-0989	2	Screw-Set
8	114-5430	1	Roller Rebuild Kit
8:1	114-3717	2	Seal-Oil
8:2	112-5290	2	Bearing-Steel, Stainless
8:3	112-7494	4	Seal
8:4	114-5411	2	Nut-Lock, Bearing



Height-of-Cut Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	108-7391-03	1	Bracket-HOC, RH
4	104-1052-03	1	Bracket-HOC, Front
5	100-5799	18	Shim-HOC, .060
6	3231-9	6	Screw-CARR
7	104-4641	3	Shim-HOC, .030
8	32128-43	6	Nut-Flange
9	3234-24	3	Screw-HHF
10	105-9226	3	Spacer-HOC
11	108-7392-03	1	Bracket-HOC,LH
12	105-9225	3	HOC Plate ASM
12:2	32121-3	1	Pin-Spring

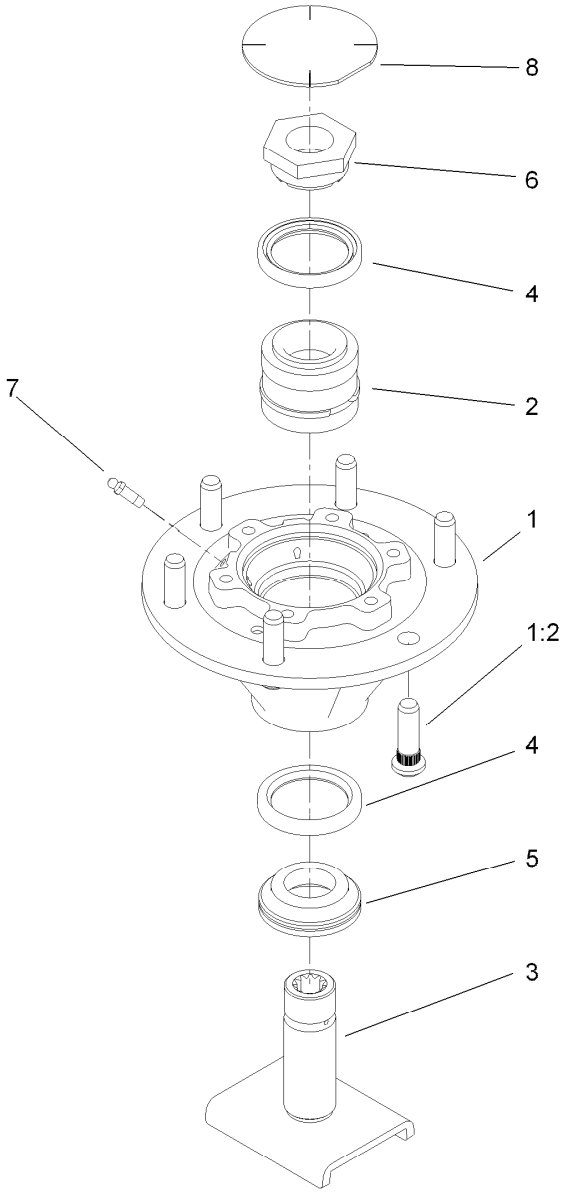


Spindle, Blade and Chamber Assembly

Ref.	Part Number	Qty.	Description
1	32128-39	6	Nut-HHF
3	104-1051-03	1	Plate-Spindle
4	108-7373	1	Chamber ASM
4:1		1	Chamber ●
4:2	93-7818	1	Decal-Torque, Blade Bolt
4:3	104-1086	1	Decal-HOC
4:4	117-4764	2	Decal-Danger
5	237-161	1	O-Ring
6	115-3435	1	Spindle ASM

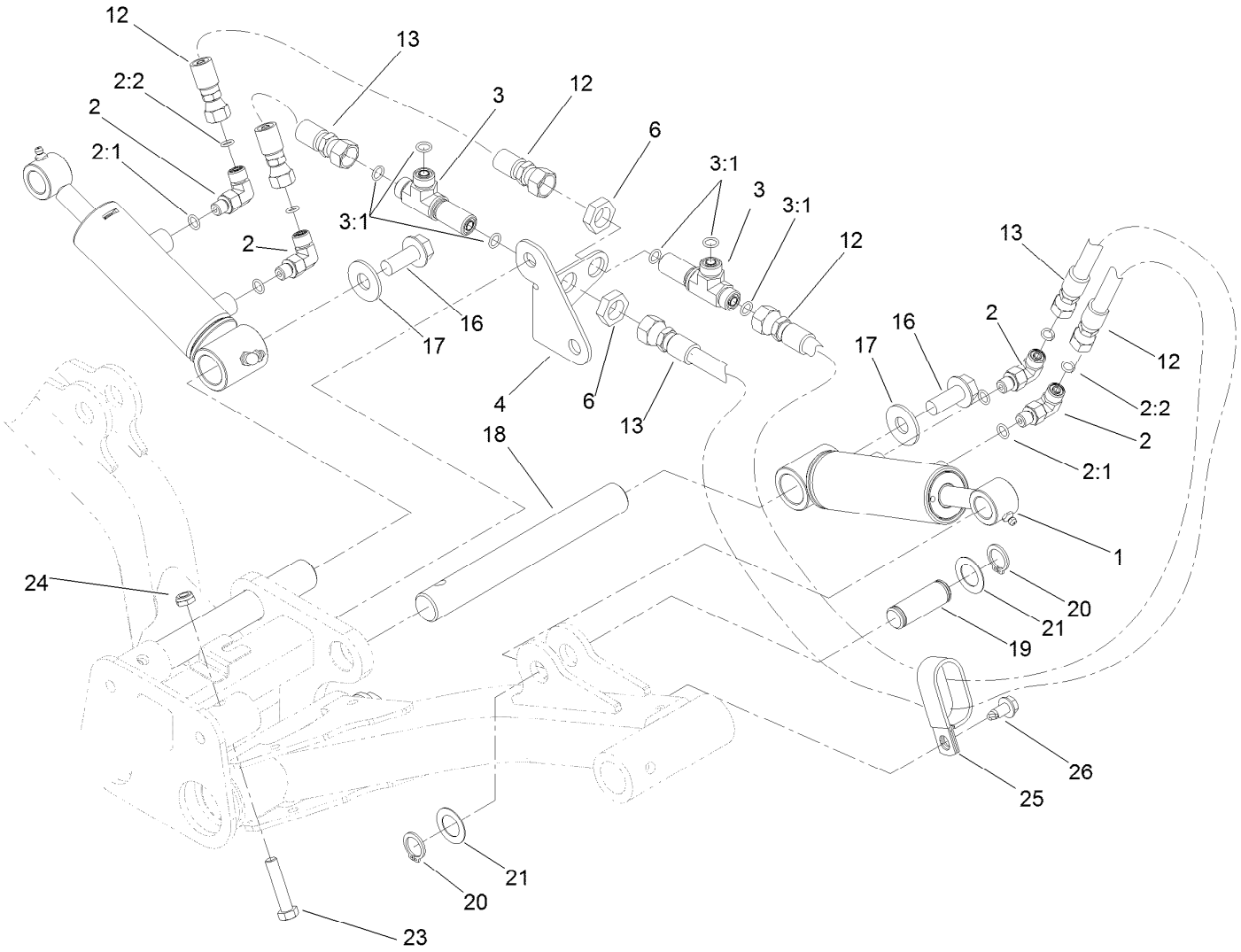
Ref.	Part Number	Qty.	Description
8	108-7395-03	1	Blade-Combo, 22In
8	114-0434-03	1	Blade-High Lift, 22In
8	114-0435-03	1	Blade-Atomic, 22In
8	117-0209-03	1	Blade-Angle Sail, 22In
9	72-9361	1	Cup-Scalp, Anti
10	92-5816	1	Bolt-Blade
11	108-7409-01	1	Baffle-Mulching
12	46-8560	5	Screw-HHFTF

● Not serviced separately



Spindle Assembly No. 115-3435

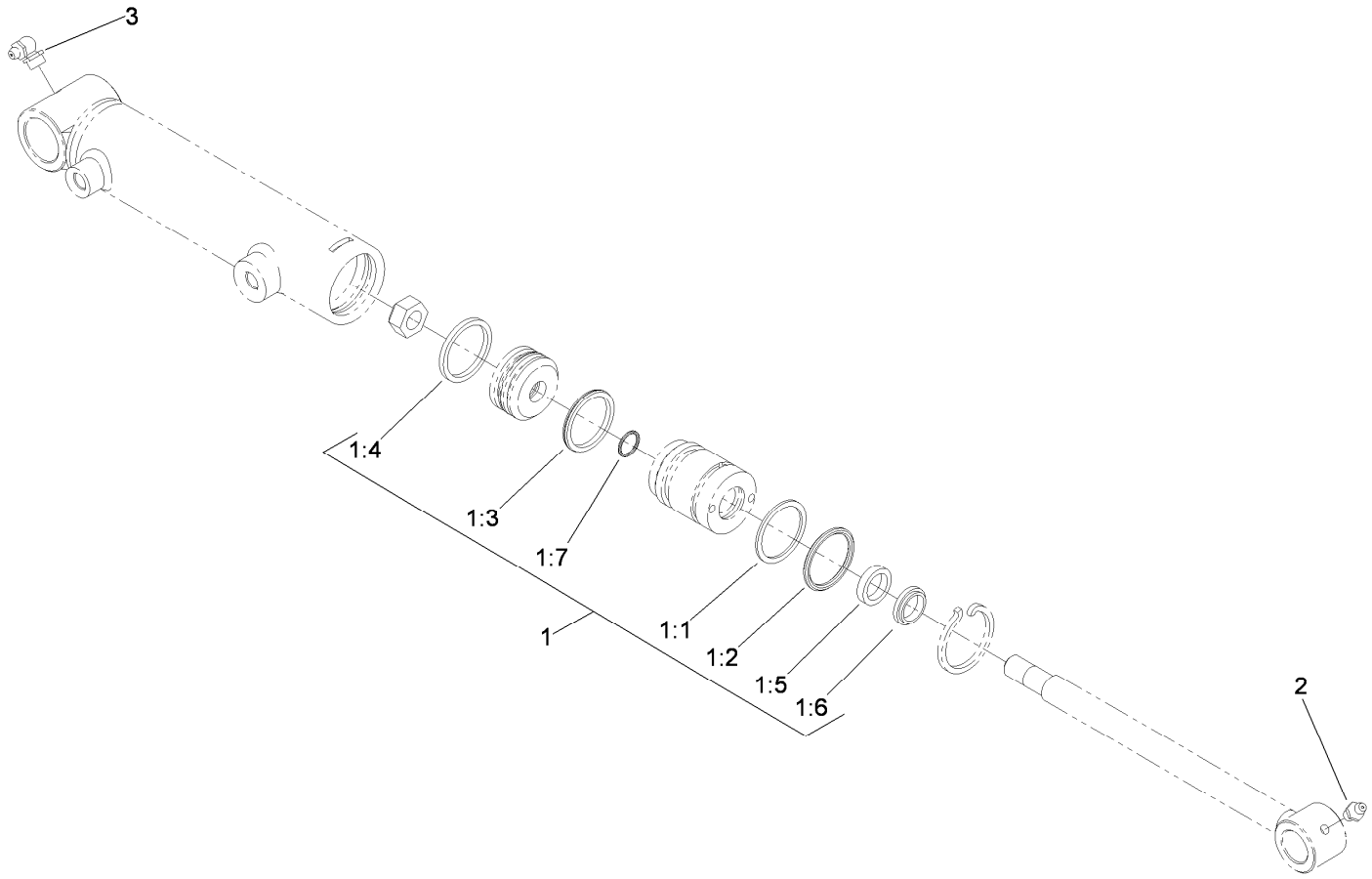
Ref.	*Part Number*	*Qty.*	*Description*
1	115-3434	1	Spindle
1:2	10-6830	6	Stud-Type, Drive
2	100-5703	1	Spacer And Bearing ASM
3	100-5705	1	Spindle Shaft ASM
4	253-154	2	Seal-Oil
5	69-6950	1	Spacer-Shaft, Spindle
6	100-5709	1	Nut-Spindle, Special
7	302-62	2	Fitting-Grease
8	94-2703	1	Plug



Rear Lift Cylinder and Plumbing Assembly

Ref.	Part Number	Qty.	Description
1	119-6988	2	HYD Cylinder ASM
2	340-132	4	Fitting-HYD, 90 DEG
2:1	237-78	1	O-Ring
2:2	237-21	1	O-Ring
3	340-68	2	Fitting-Tee, Bulkhead
3:1	237-22	3	O-Ring
4	117-0179	1	Bracket-Bulkhead
6	340-70	2	Nut-Lock
12	105-5402	2	Hose-HYD
13	105-5405	2	Hose-HYD

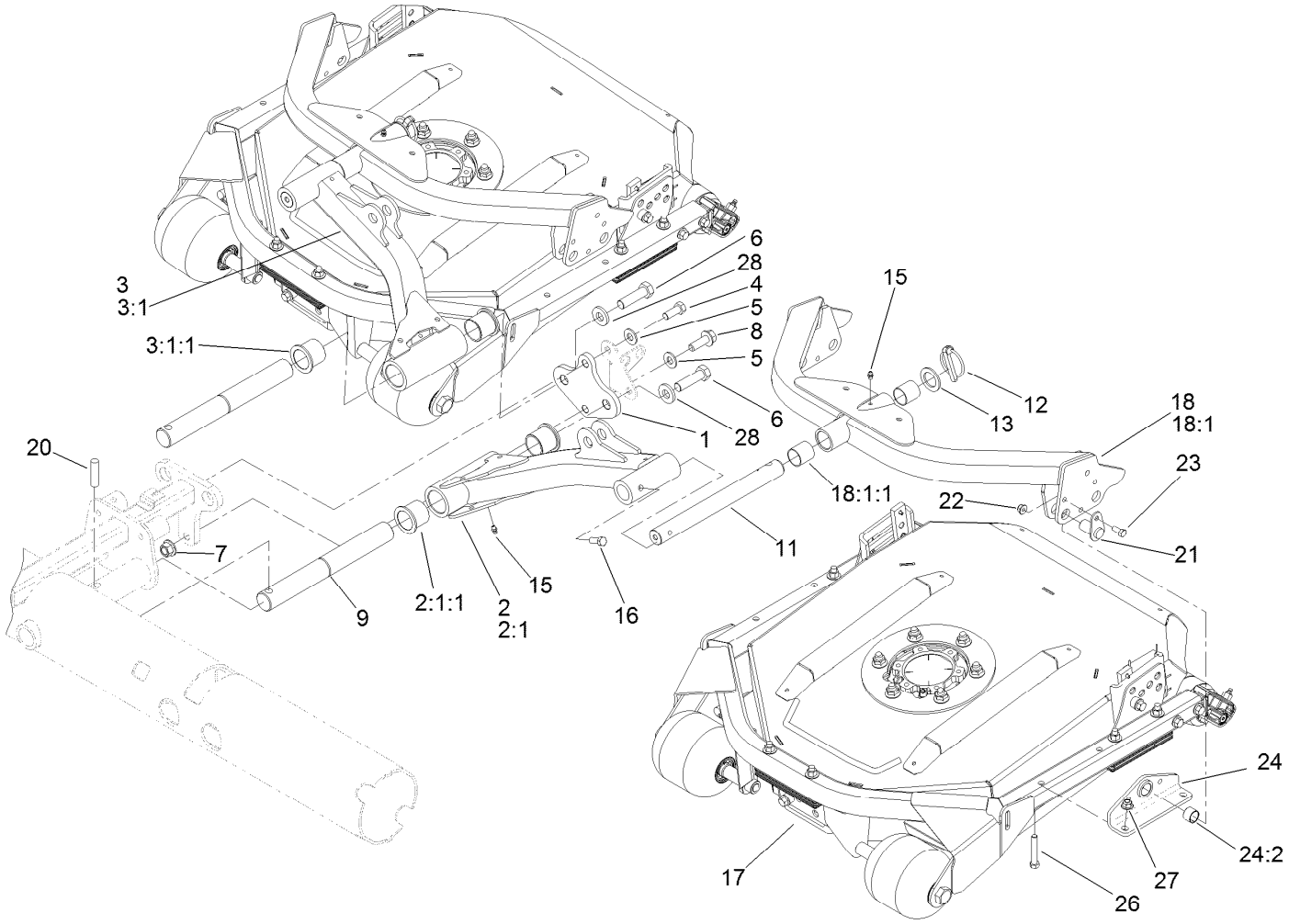
Ref.	Part Number	Qty.	Description
16	3234-38	2	Screw-HHF
17	3256-6	2	Washer-Flat
18	117-0148	2	Pin-Cylinder
19	104-0046	2	Pin-Slide, Cylinder
20	32120-93	4	Ring-Retaining
21	3-6498	4	Washer-Thrust
23	323-9	2	Screw-HH
24	3296-59	2	Nut-Lock, NI
25	2412-137	2	Clamp-R, Double
26	32104-32	2	Screw-HWH



Hydraulic Cylinder Assembly No. 119-6988

Ref.	*Part Number*	*Qty.*	*Description*
1	119-6992	1	Seal Kit
1:1		1	O-Ring ●
1:2		1	Backup ●
1:3		1	Bp Seal ●
1:4		1	Wear Ring-Ht ●
1:5		1	Bs Seal ●
1:6		1	Dust Seal-Dt ●
1:7		1	O-Ring ●
2	302-5	1	Fitting-Grease
3	302-33	1	Fitting-Grease

● Not serviced separately

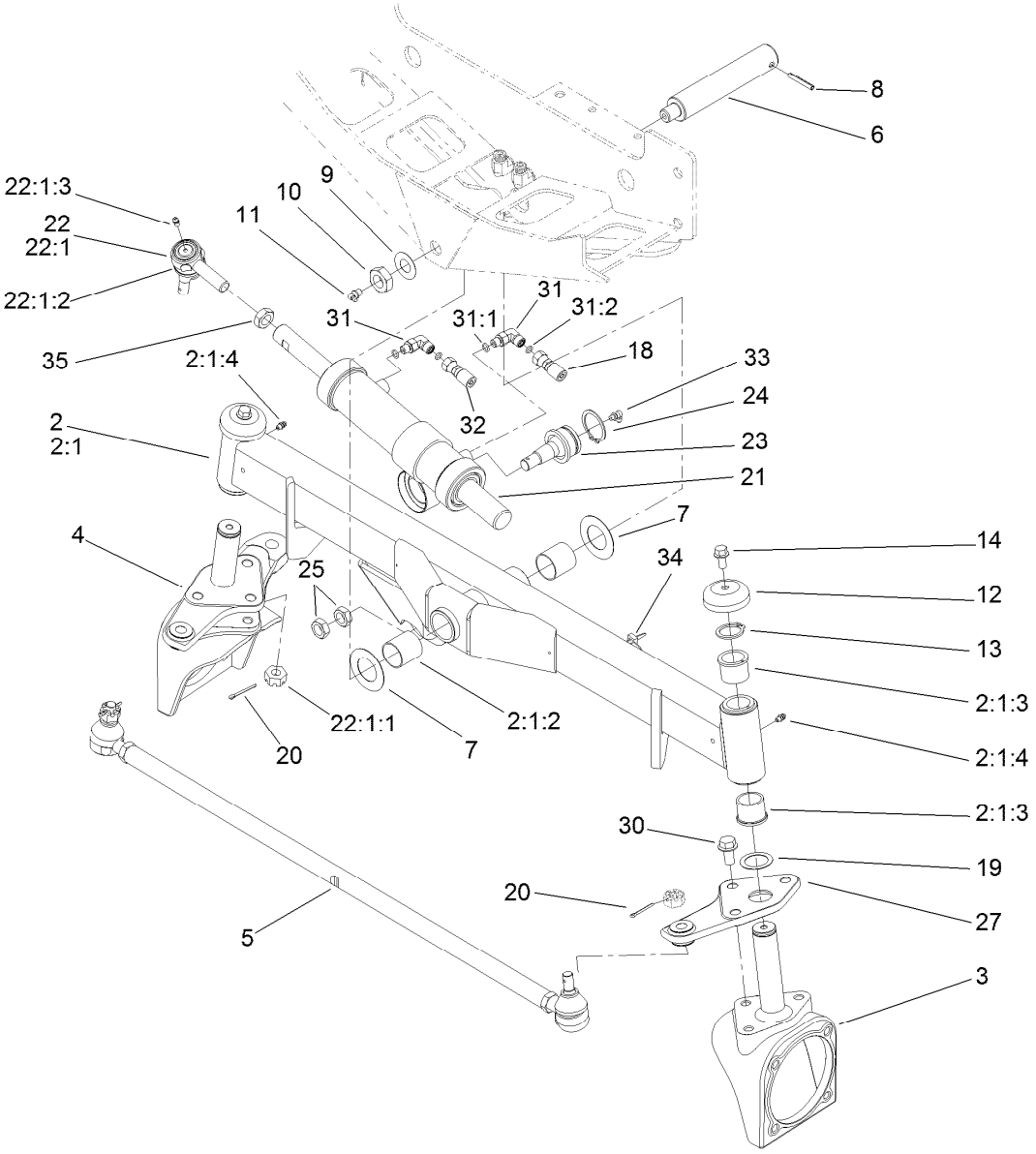


Rear Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	114-0352-01	1	Plate-Bridge, No. 2 And 3
2	114-0382-03	1	Arm No. 2 ASM
2:1		1	Arm 2 ●
2:1:1	69-6470	2	Bushing-Castor
3	114-0383-03	1	Arm No. 3 ASM
3:1		1	Arm 3 ●
3:1:1	69-6470	2	Bushing-Castor
4	325-5	1	Screw-HH
5	87-7270	2	Washer-Thrust
6	327-7	2	Screw-HH
7	99-5107	1	Nut-Lock
8	325-7	1	Screw-HH
9	117-0208	2	Shaft-Pivot, Liftarm
11	95-8979	2	Shaft
12	283-71	2	Pin-Lynch
13	3-6781	2	Washer-Thrust

Ref.	Part Number	Qty.	Description
15	302-5	4	Fitting-Grease
16	323-6	2	Screw-HH
17	30845	2	22 Inch Contour Plus Replacement Deck
18	108-7384-03	2	Carrier Frame ASM
18:1		1	Frame-Carrier ●
18:1:1	108-4000	2	Bushing
20	32121-122	2	Pin-Roll
21	117-0132	4	Pin ASM
22	104-8300	4	Nut-Flange, NI
23	322-3	4	Screw-HH
24	117-0118	4	Pivot ASM
24:2	108-8482	1	Bushing-Sleeve
26	323-11	8	Screw-HH
27	104-8301	8	Nut-Flange, NI
28	99-7667	2	Washer-Flat

● Not serviced separately

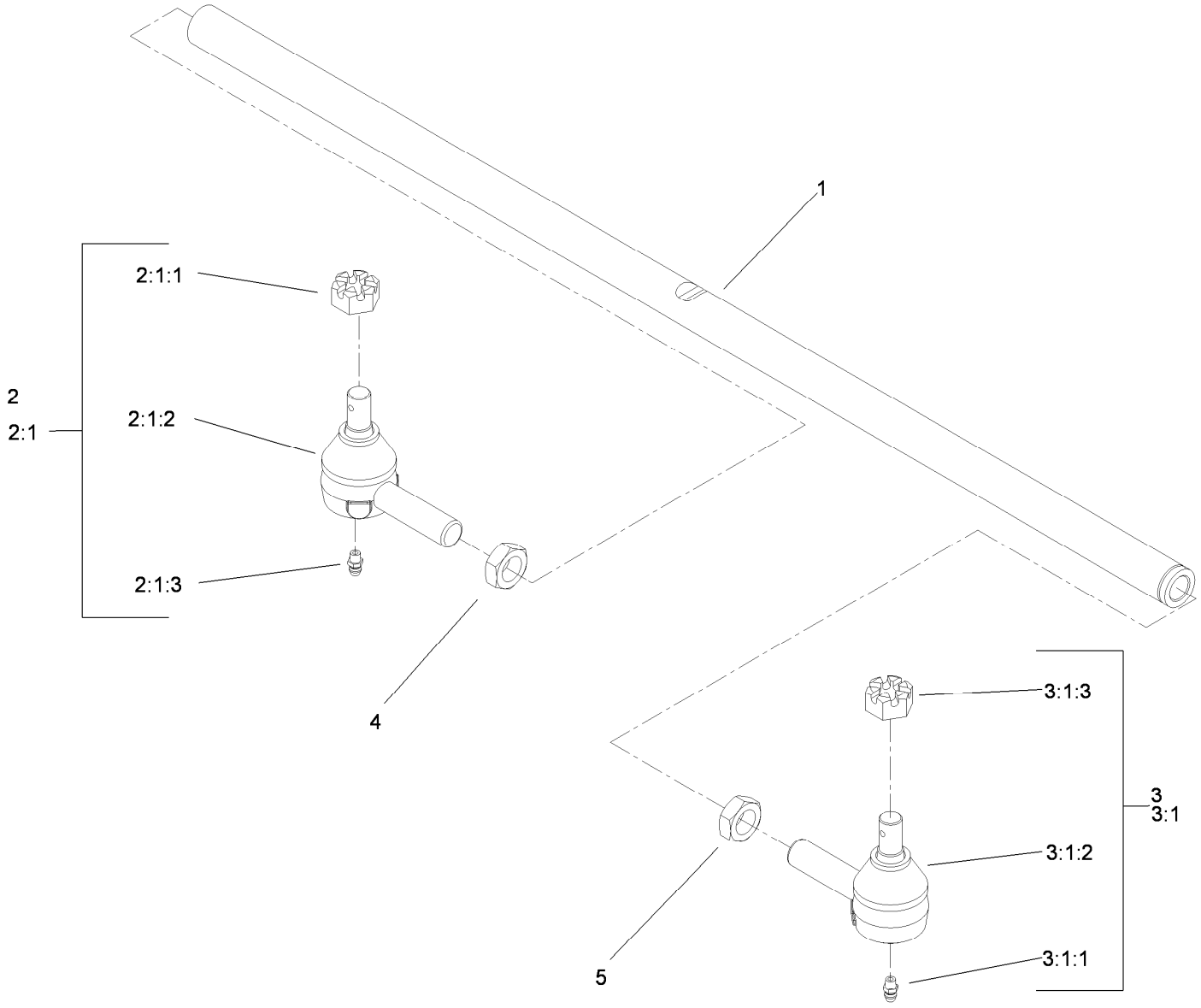


Rear Axle Assembly

Ref.	Part Number	Qty.	Description
2	117-0256-03	1	Axle ASM
2:1		1	Axle ●
2:1:2	99-6964	2	Bushing-Axle
2:1:3	104-0015	4	Bushing-Flange
2:1:4	302-5	2	Fitting-Grease
3	107-4517-03	2	Housing-Motor
4	110-5295-03	1	Link-Drag, RH
5	110-5334-03	1	Tie Rod ASM
6	98-8173	1	Pin-Pivot, Axle
7	99-8432	2	Washer-Thrust
8	32121-32	1	Pin-Roll
9	71-4540	1	Washer-Thrust
10	32146-20	1	Nut-Hex
11	302-33	1	Fitting-Grease
12	69-8890	2	Cap-Spindle
13	32151-77	2	Ring-Retaining, External
14	3234-1	2	Screw-HHF
18	110-0928	1	Hose-HYD
19	76-2980	2	Washer-Thrust

Ref.	Part Number	Qty.	Description
20	3272-12	3	Pin-Cotter
21	114-0403	1	HYD Steering Cylinder ASM
22	71-4740-03	1	End-Rod, Tie
22:1		1	End-Rod, Tie (RH) ●
22:1:1	105-7941	1	Nut-Hex, Slotted
22:1:2	105-7835	1	Seal
22:1:3	302-5	1	Fitting-Grease
23	106-6774	1	Joint-Ball
24	32151-104	1	Ring-Retaining, External
25	3220-6	2	Nut-Jam
27	110-5297-03	1	Link-Drag, LH
30	3234-6	6	Screw-HHF
31	340-132	2	Fitting-HYD, 90 DEG
31:1	237-78	1	O-Ring
31:2	237-21	1	O-Ring
32	110-0973	1	Hose-HYD
33	302-40	1	Fitting-Grease
34	3290-378	2	Tie-Cable
35	84-5300	1	Nut-Jam

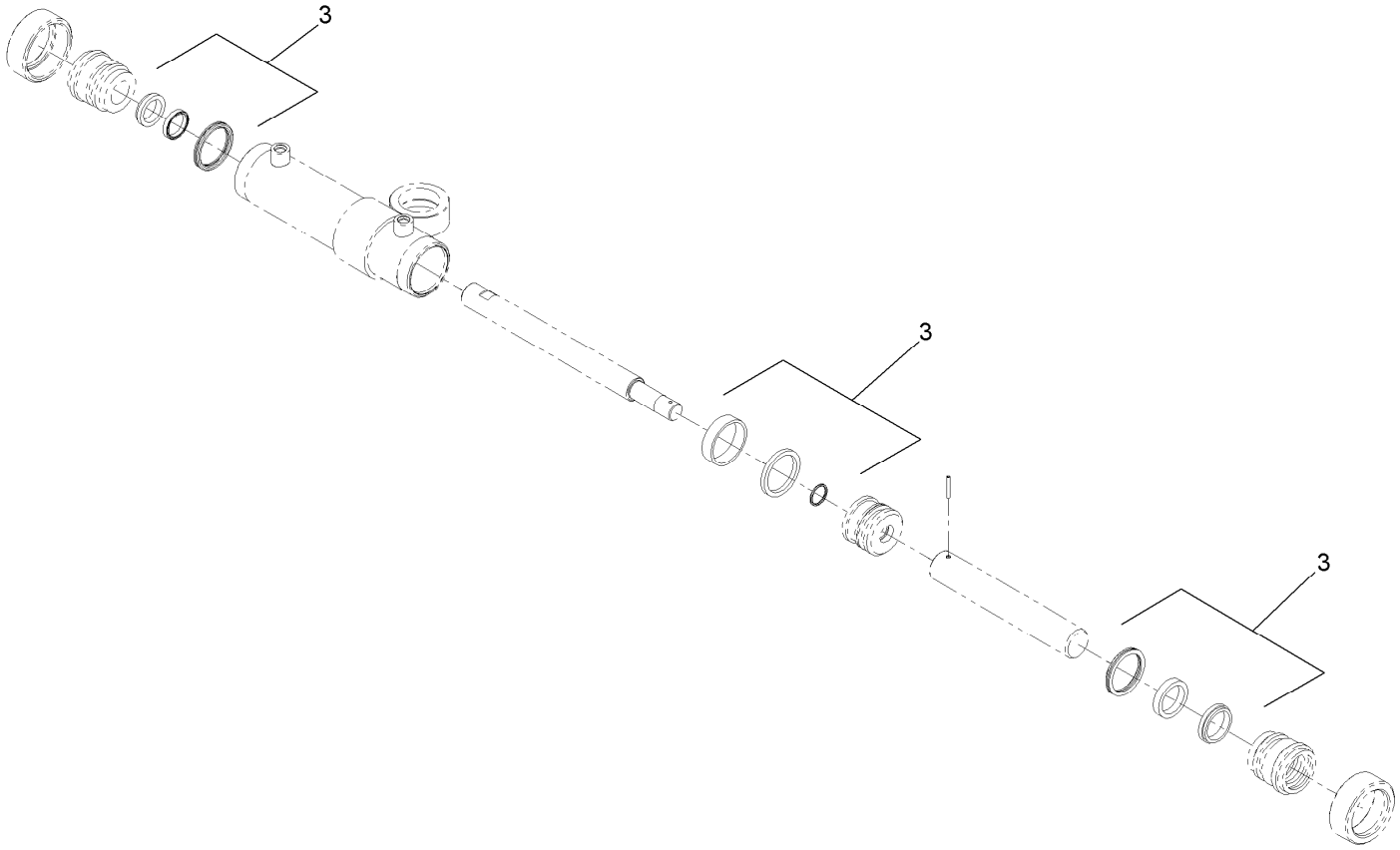
● Not serviced separately



Tie Rod Assembly No. 110-5334-03

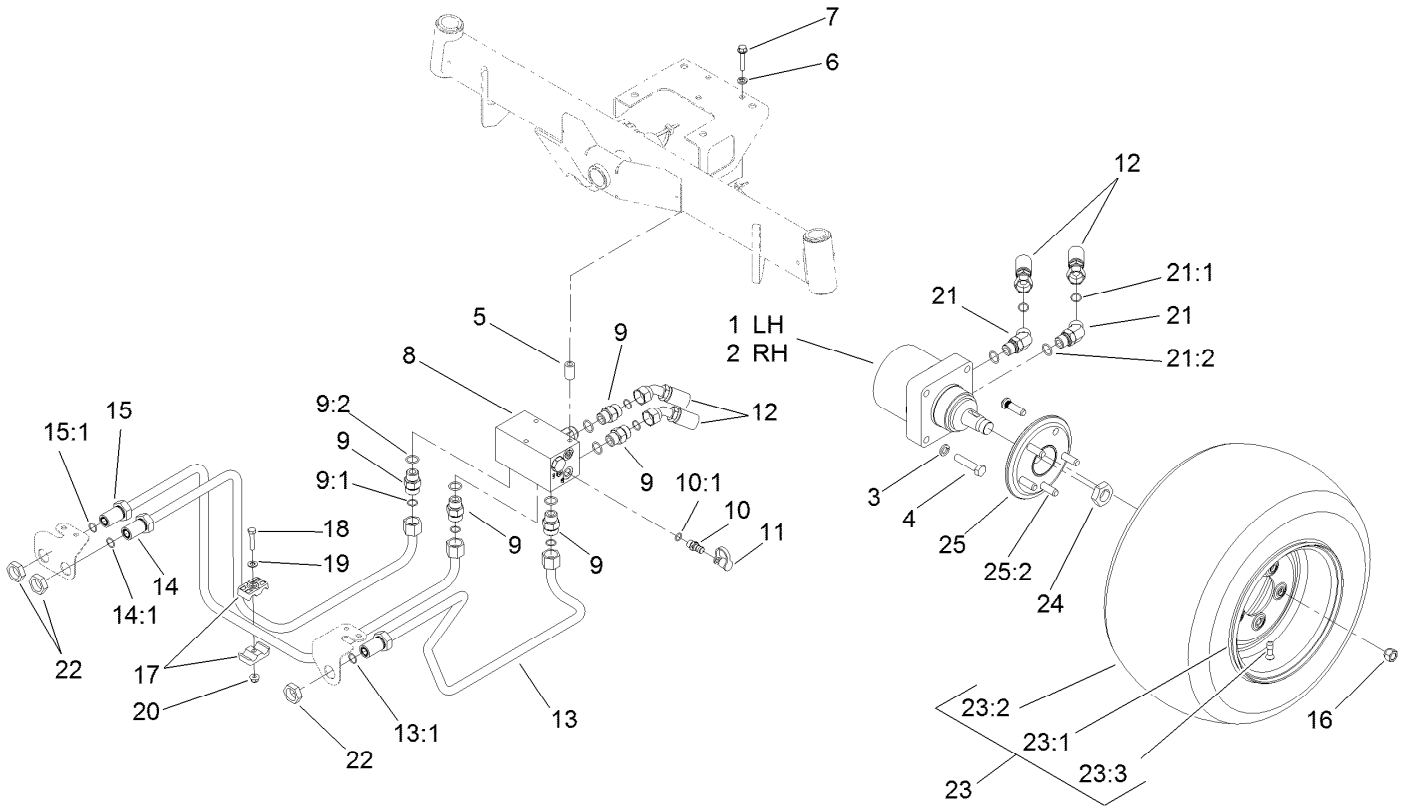
Ref.	*Part Number*	*Qty.*	*Description*
1	110-5335	1	Rod-Tie
2	71-4740-03	1	End-Rod, Tie
2:1		1	End-Rod, Tie (RH) ●
2:1:1	105-7941	1	Nut-Hex, Slotted
2:1:2	105-7835	1	Seal
2:1:3	302-5	1	Fitting-Grease
3	2411-46-03	1	End-Rod, Tie (LH)
3:1		1	End-Rod, Tie (LH) ●
3:1:1	302-5	1	Fitting-Grease
3:1:2	105-7835	1	Seal
3:1:3	105-7941	1	Nut-Hex, Slotted
4	84-5300	1	Nut-Jam
5	110-5337	1	Nut-Jam

● Not serviced separately



Hydraulic Cylinder Assembly No. 114-0403

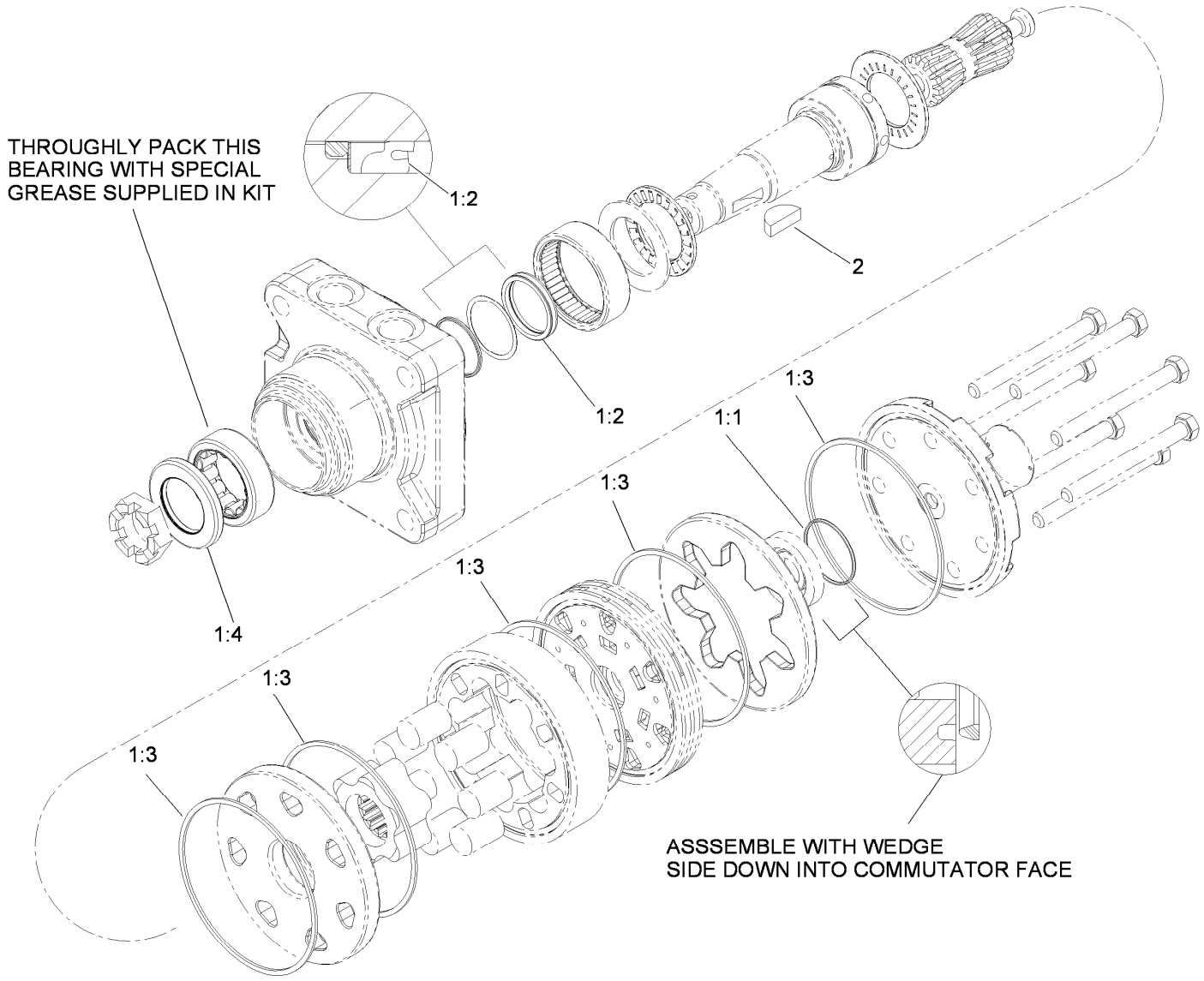
Ref.	*Part Number*	*Qty.*	*Description*
3	114-0404	1	Cylinder Repair Kit



All Wheel Drive Assembly

Ref.	Part Number	Qty.	Description
1	107-4544	1	HYD Motor ASM
2	110-0901	1	HYD Motor ASM
3	3253-7	8	Washer-Lock
4	325-9	8	Screw-HH
5	93-6981	3	Spacer
6	3253-21	3	Washer-Lock
7	323-9	3	Screw-HH
8	108-1825	1	HYD Manifold ASM
9	340-7	7	Adapter
9:1	237-65	1	O-Ring
9:2	237-80	1	O-Ring
10	59-7410	2	Fitting-Diagnostic
10:1	237-42	1	O-Ring
11	354-79	2	Cap-Dust
12	106-3662	4	Hose-HYD
13	108-7626	1	Tube ASM
13:1	237-65	1	O-Ring
14	108-7625	1	Tube ASM
14:1	237-65	1	O-Ring

Ref.	Part Number	Qty.	Description
15	108-7624	1	Tube ASM
15:1	237-65	1	O-Ring
16	242-50	10	Nut-Lug
17	56-7971	2	Clamp-Tube
18	322-7	1	Screw-HH
19	3256-23	1	Washer-Flat
20	104-8300	1	Nut-Flange, NI
21	340-14	4	Fitting-HYD, 45 DEG
21:1	237-65	1	O-Ring
21:2	237-80	1	O-Ring
22	340-74	3	Nut-Lock, Bulkhead
23	117-0281	2	Rim And Tire ASM
23:1	117-0280	1	Rim
23:2	117-5125	1	Tire
23:3	232-27	1	Stem-Valve
24	26-3790	2	Nut-Lock
25	120-6271	2	Hub ASM
25:2	10-6830	5	Stud-Type, Drive

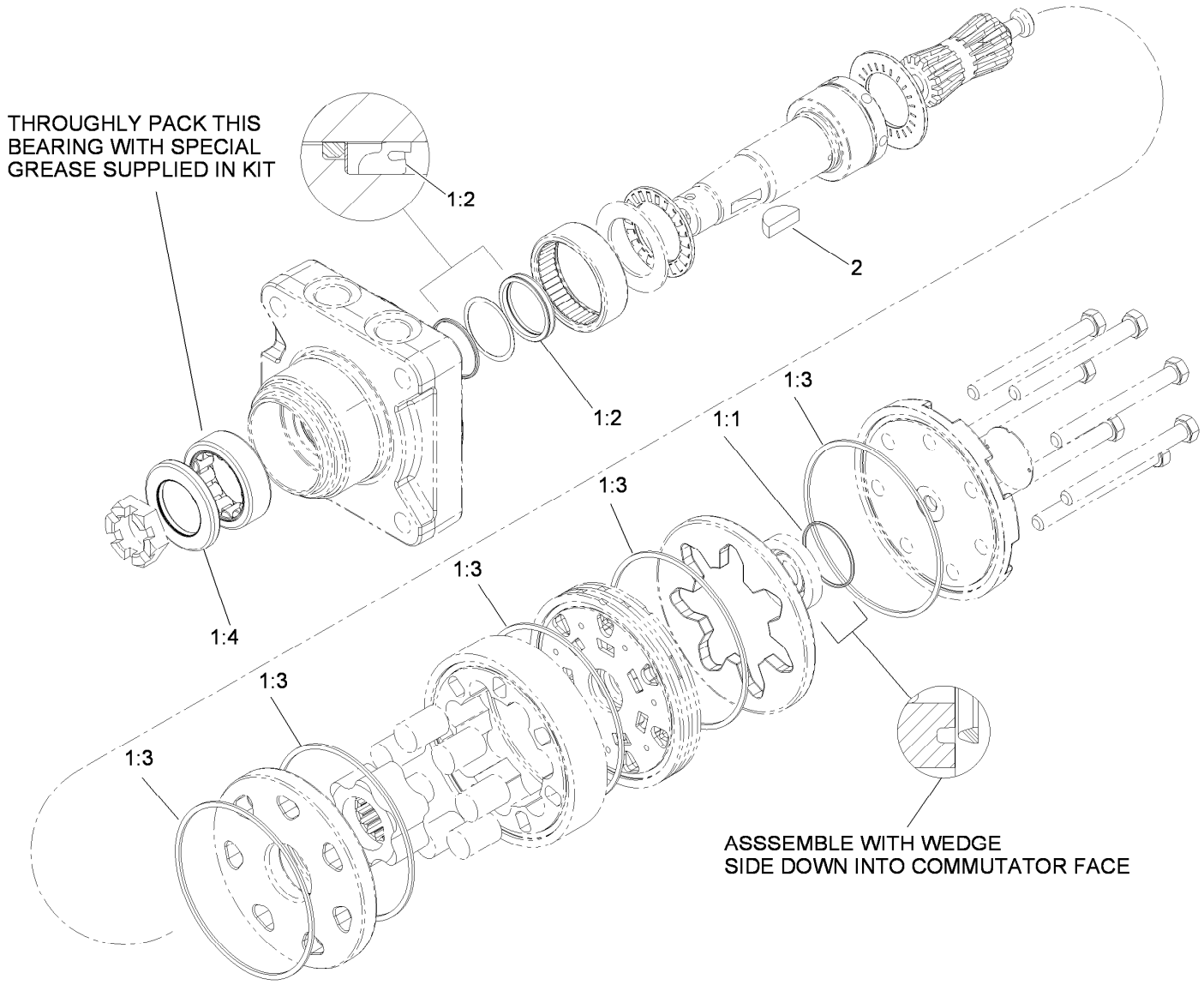


Hydraulic Motor Asembly No. 107-4544

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

● Not illustrated

■ Not serviced separately

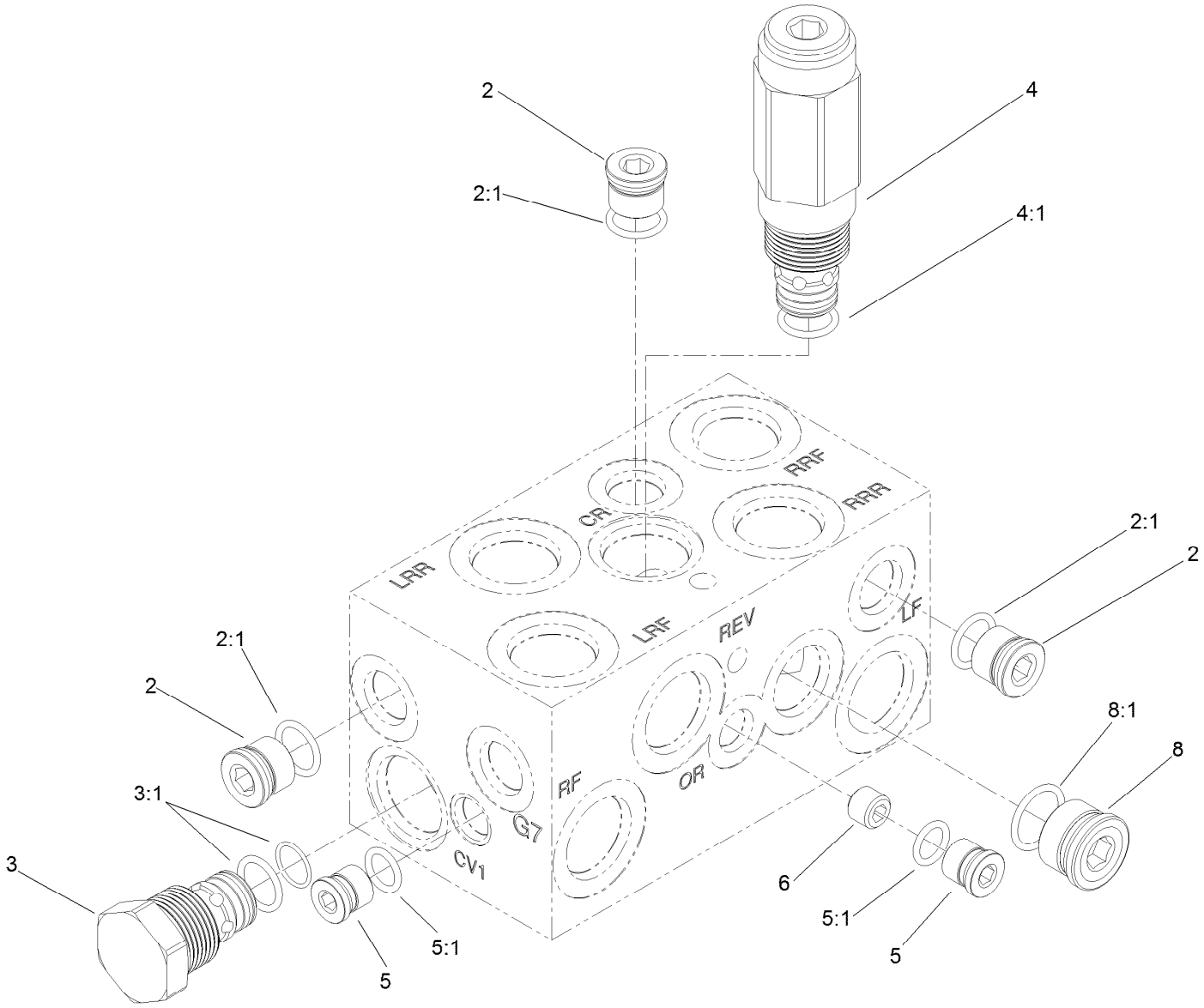


Hydraulic Motor Assembly No. 110-0901

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

● Not illustrated

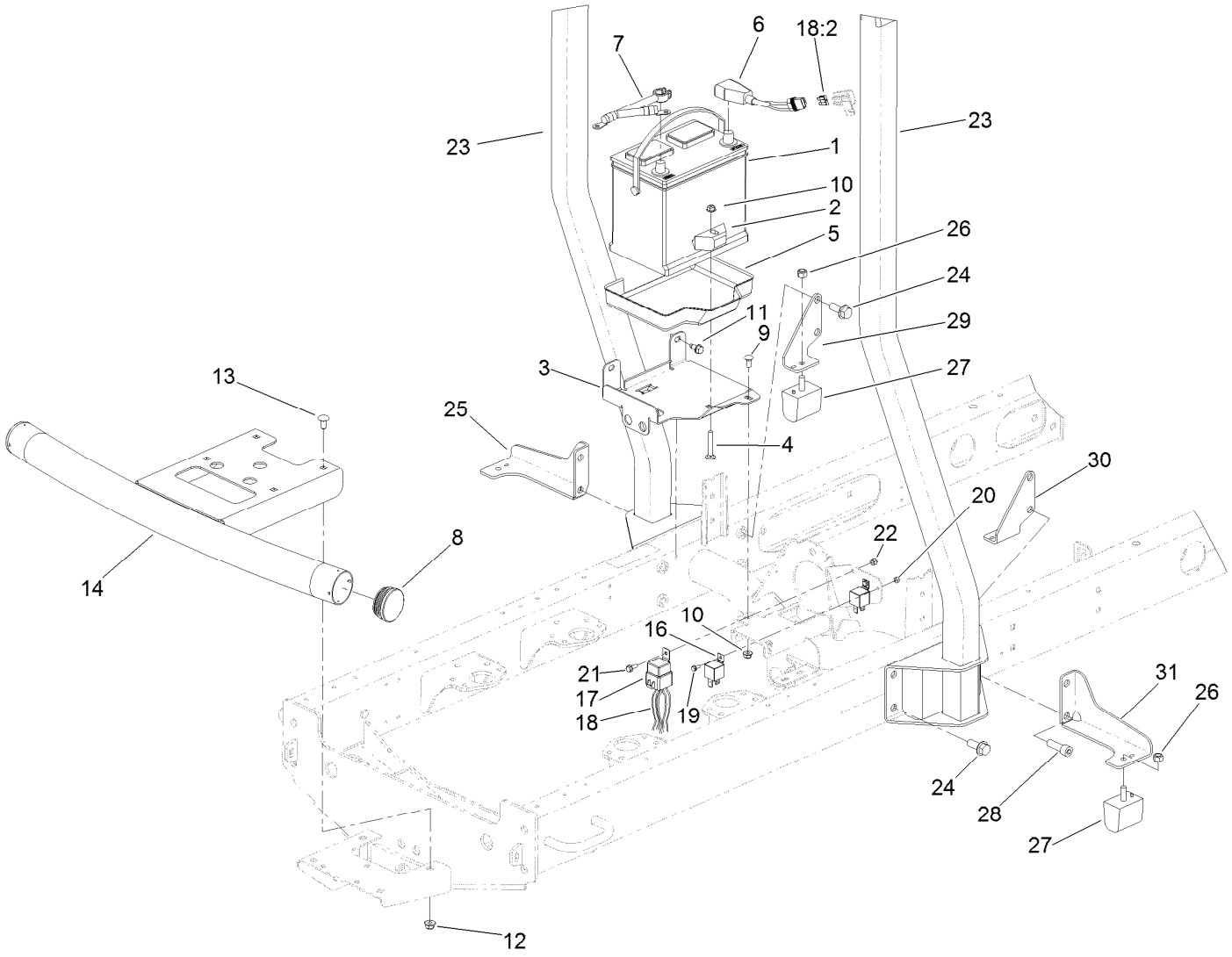
■ Not serviced separately



Four Wheel Drive Manifold Assembly No. 108-1825

Ref.	*Part Number*	*Qty.*	*Description*
2	106-1026	3	Plug-HYD
2:1	237-42	1	O-Ring
3	110-8881	2	Valve-Check
3:1	105-9159	1	Seal Kit ●
4	110-8882	1	Valve-Relief, Cross Over
4:1	110-6316	1	Seal Kit
5	106-1025	2	Plug-HYD
5:1	237-78	1	O-Ring
6	110-8883	1	Plug-Orifice (0.040)
8	106-1027	1	Plug-HYD
8:1	237-79	1	O-Ring

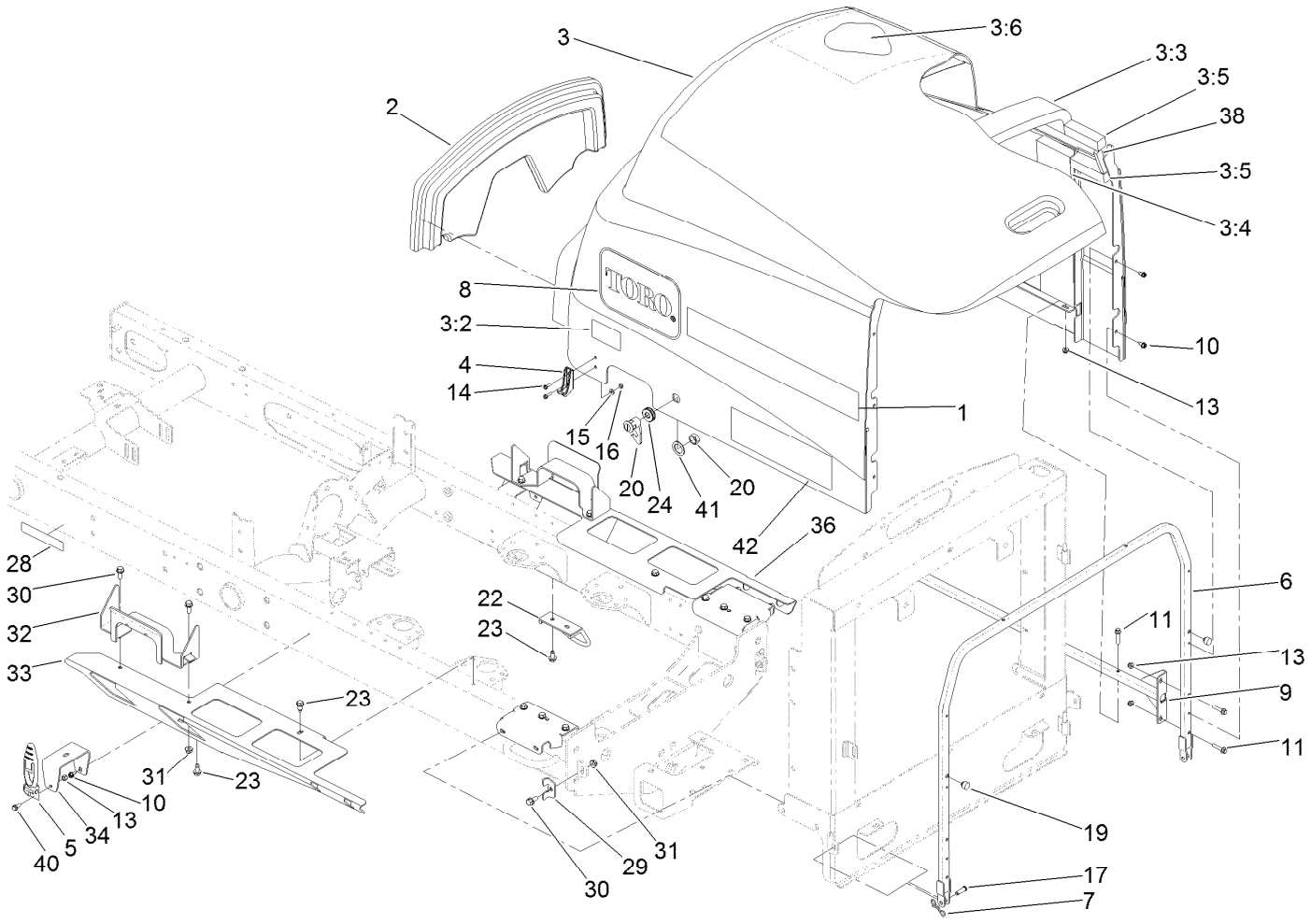
● Not illustrated



Battery and Bumper Assembly

Ref.	Part Number	Qty.	Description
1	104-9979	1	Battery
2	66-2490	1	Retainer-Battery
3	110-0907-01	1	Bracket-Battery
4	3230-6	1	Screw-CARR
5	99-3513	1	Tray-Battery
6	108-1802	1	Cable-Battery, Positive
7	110-8813	1	Cable-Battery, Negative
8	2410-42	2	Cap-End
9	3230-1	1	Bolt-CARR
10	104-8300	2	Nut-Flange, NI
11	32104-32	2	Screw-HWH
12	104-8301	4	Nut-Flange, NI
13	3231-21	4	Screw-CARR
14	110-8951-03	1	Bumper
16	99-7435	2	Relay-Power
17	99-7430	1	Relay

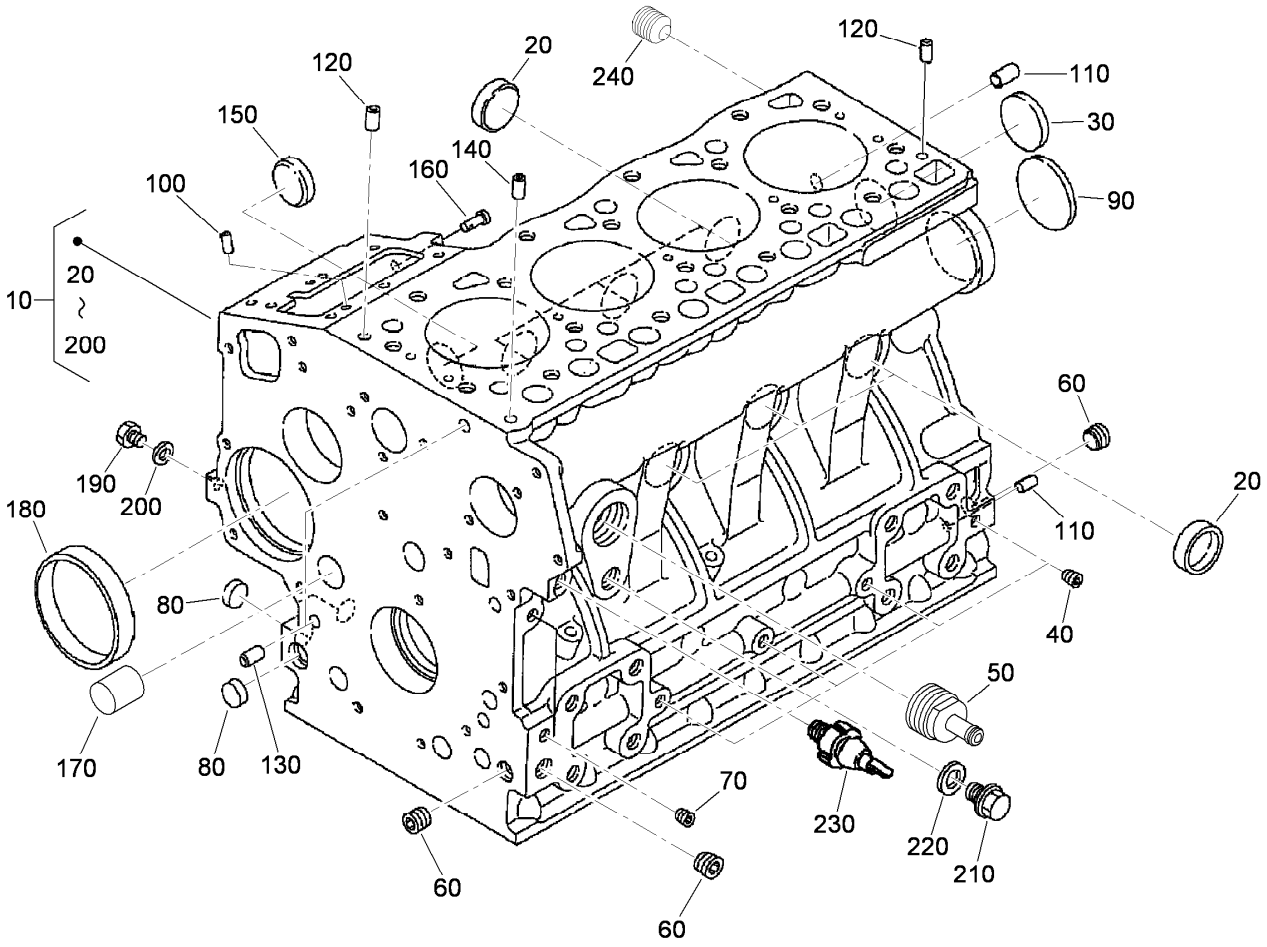
Ref.	Part Number	Qty.	Description
18	117-0153	1	Harness-Wire
18:2	94-6710	1	Fuse-2 Amp
19	3290-321	2	Screw-HWH
20	3296-2	2	Nut-Lock, NI
21	3234-33	1	Screw-HHF
22	3296-42	1	Nut-Lock, NI
23	110-8920	1	ROPS ASM
24	3234-38	8	Screw-HHF
25	117-0184-03	1	Bracket-Bumper, LH
26	33025-00	4	Nut-Lock, NI
27	87-3470	4	Bumper-Axle, Rear
28	3274-4	4	Screw-HSH
29	117-0183-03	1	Bracket-Bumper, LH
30	117-0234-03	1	Bracket-Bumper, RH
31	117-0233-03	1	Bracket-Bumper, RH



Hood and Body Panel Assembly

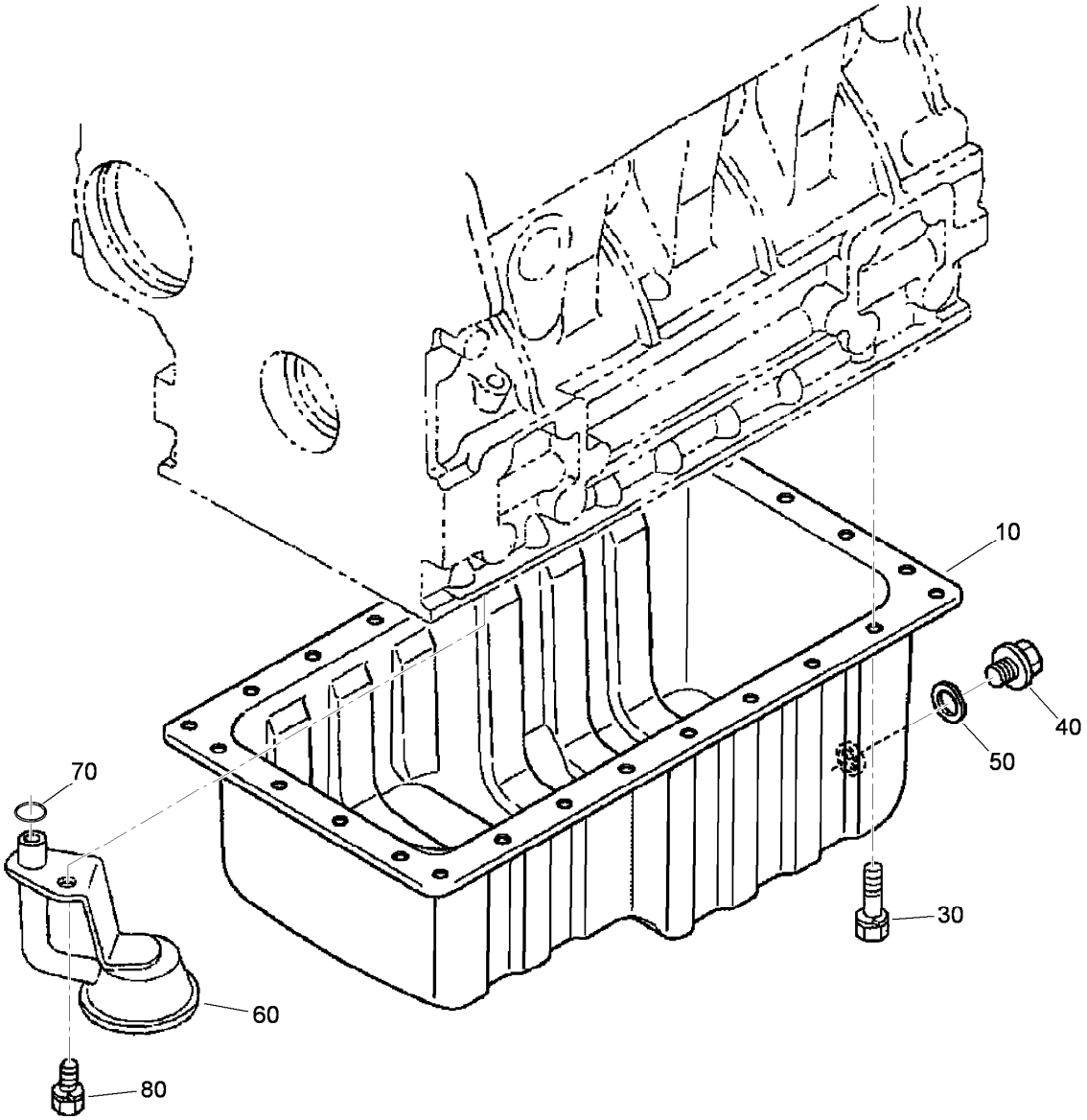
Ref.	Part Number	Qty.	Description
1	117-0173	2	Decal
2	108-7587	1	Saddle-Hood
3	110-8995	1	Hood ASM
3:2	106-6754	1	Decal-Danger
3:3	110-8948	1	Foam-Hood
3:4	110-8947	2	Foam-Hood
3:5	110-8949	4	Seal-Foam
3:6	110-9002	1	Foil Tape Kit
4	103-2897	2	Latch-Catch
5	103-2898	2	Latch-Rubber
6	110-5277-03	1	Frame-Hood
7	105-7512	2	Pin-Tie, Bow
8	66-6140	2	Decal
9	108-1790-03	2	Tube
10	32104-17	8	Screw-HWH
11	3234-21	10	Screw-HHF
13	104-7201	12	Nut-HF
14	32105-13	4	Screw-HWH
15	3256-14	4	Washer-Flat

Ref.	Part Number	Qty.	Description
16	3296-12	4	Nut-Lock, NI
17	283-61	2	Pin-Yoke
19	107-8042	2	Bumper-Rubber
20	98-5398	1	Latch
22	110-8999	1	Guard-Muffler
23	32104-32	6	Screw-HWH
24	104-1453	1	Grommet
28	93-6689	2	Decal-No Riders
29	110-8946	2	Clamp-Frame, Radiator
30	3234-5	6	Screw-HHF
31	104-8300	6	Nut-Flange, NI
32	110-5259-03	2	Bracket-Hood, Guide
33	110-5253-01	1	Adapter-Hood, LH
34	110-5256-01	2	Bracket-Latch, Hood
36	110-5254-01	1	Adapter-Hood, RH
38	110-8950	2	Seal-Foam
40	3234-33	2	Screw-HHF
41	99-4958	1	Spacer
42	110-8859	2	Decal



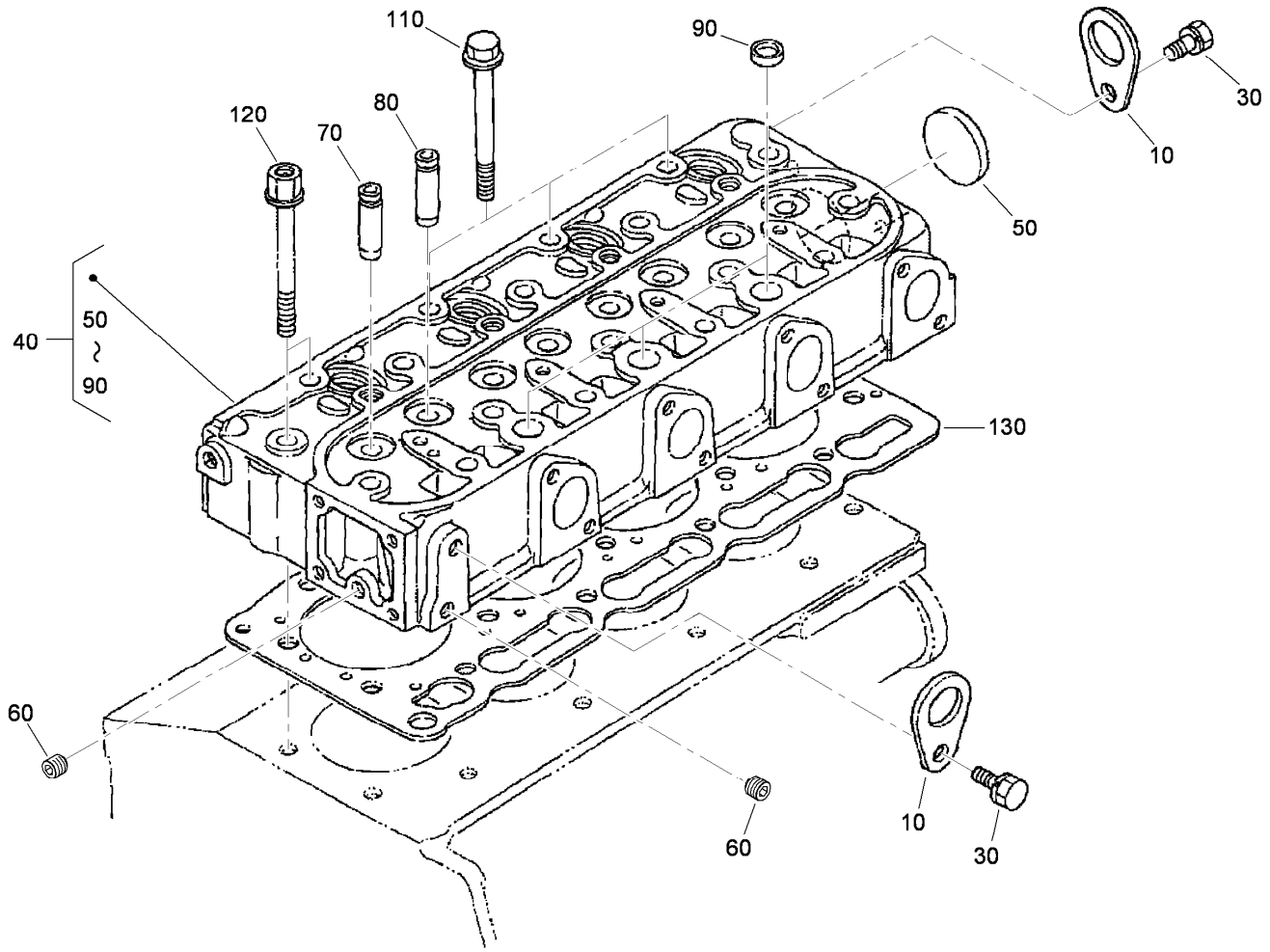
Crankcase Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	115-4115	1	Crankcase ASM
20	98-9398	6	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-7540	4	Plug
50	99-8347	1	Joint-Pipe, Drain
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	1	Pin-Straight
110	98-9377	1	Pin-Straight
120	98-9376	2	Pin-Straight
130	98-9387	2	Pin-Pipe
140	98-9539	1	Pin-Pipe
150	98-9599	1	Plug
160	105-3796	1	Pin-Spring, Start
170	98-9675	1	Plug
180	98-9656	1	Bushing-Governor, Gear
190	98-7507	1	Plug
200	98-7428	1	Gasket
210	99-3447	1	Plug
220	106-7056	1	Gasket
230	98-9416	1	Switch-Oil
240	98-9444	1	Plug



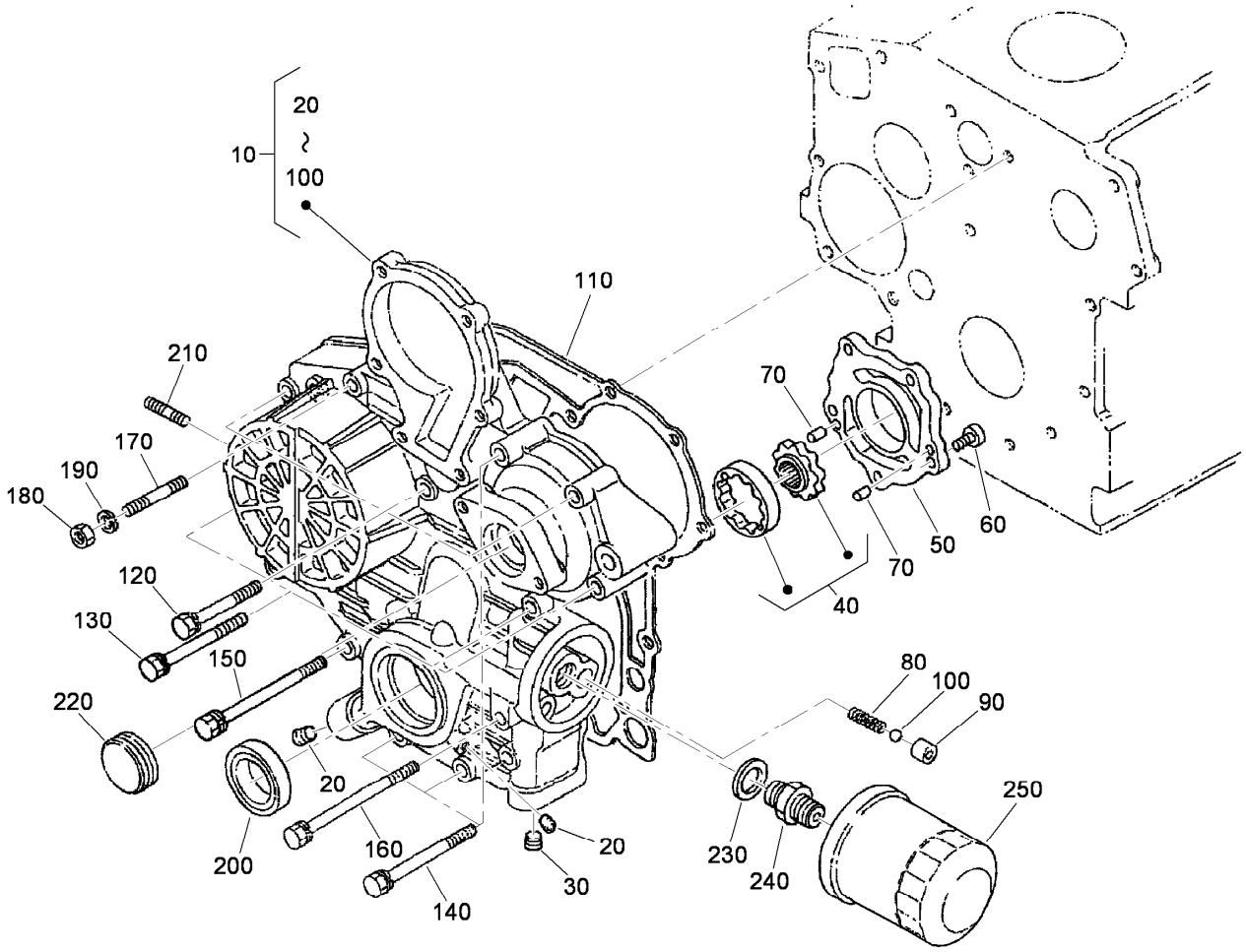
Oil Pan Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-0186	1	Oil Pan ASM
30	98-9351	26	Bolt
40	114-8151	1	Plug-Drain
50	98-7524	1	Gasket
60	112-7003	1	Head-Filter, Oil
70	105-3776	1	O-Ring
80	98-7526	1	Bolt



Cylinder Head Assembly

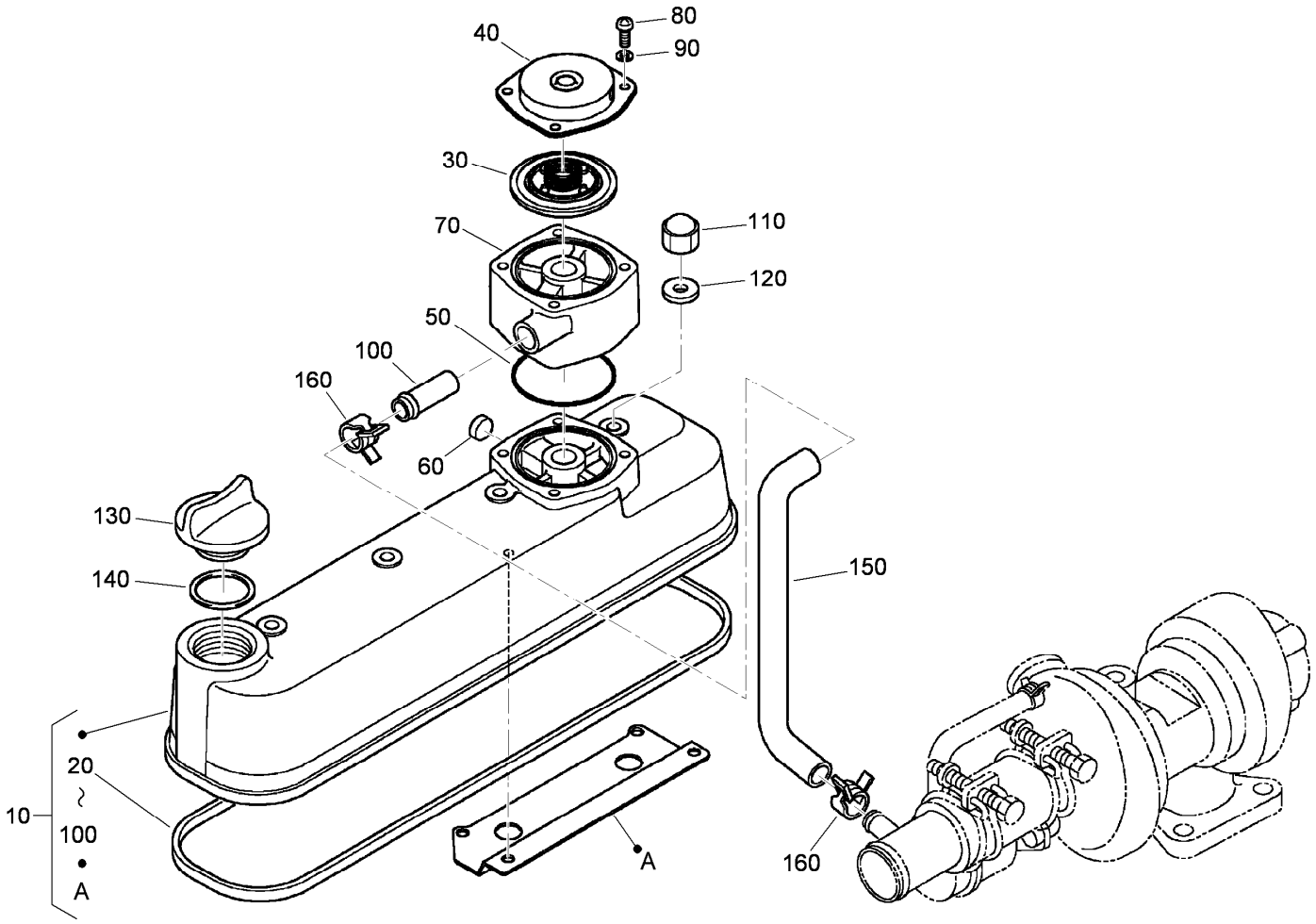
Ref.	*Part Number*	*Qty.*	*Description*
10	98-7531	2	Hook-Engine
30	100-9195	2	Bolt
40	108-2854	1	Cylinder Head ASM
50	105-3705	1	Cap-Sealing
60	98-7540	2	Plug
70	107-9066	4	Guide-Valve, Inlet
80	107-9067	4	Guide-Valve, Exhaust
90	98-9389	3	Cap-Sealing
110	98-9479	16	Bolt-Head, Cylinder
120	98-9647	2	Bolt-Head, Cylinder
130	108-2855	1	Gasket-Head, Cylinder



Gear Case Assembly

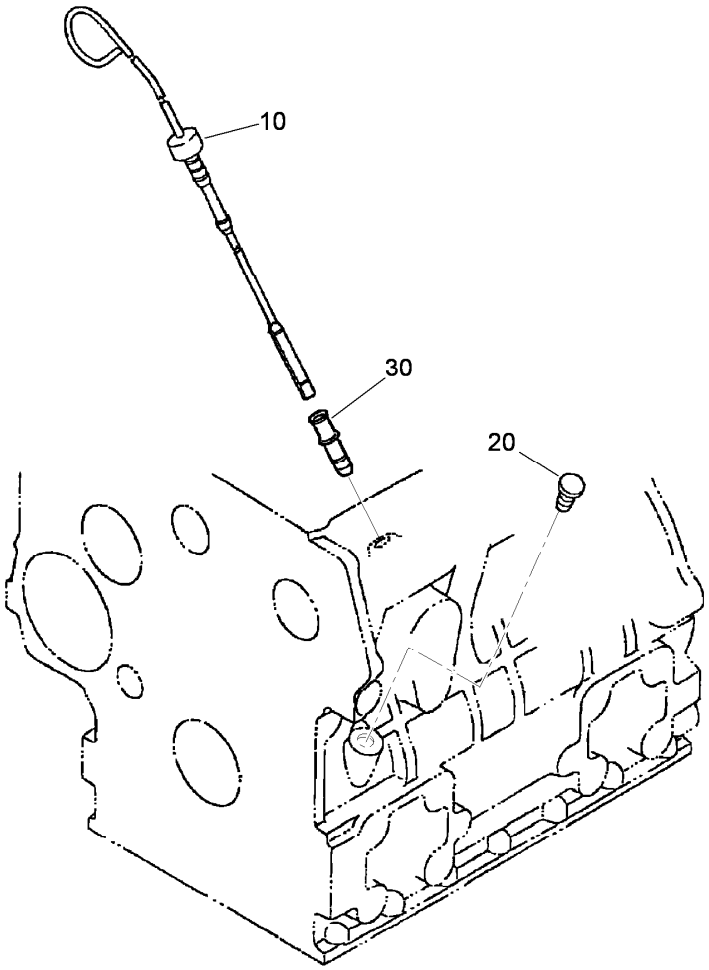
Ref.	Part Number	Qty.	Description
10	115-4111	1	Gear Case ASM
20	98-9598	5	Plug
30	98-7487	1	Plug
40	98-9540	1	Oil Pump Rotor ASM
50	107-9069	1	Cover-Pump, Oil
60	107-9071	1	Screw
70	107-9072	1	Pin-Straight
80	98-9544	1	Spring
90	98-9543	1	Seat-Valve
100	98-9380	1	Ball
110	98-9633	1	Gasket-Case, Gear
120	98-7496	3	Bolt
130	105-3797	4	Bolt

Ref.	Part Number	Qty.	Description
140	98-9356	2	Bolt
150	107-9074	1	Bolt
160	98-9586	1	Bolt
170	105-3709	1	Stud
180	98-7572	1	Nut
190	98-7699	1	Washer-Spring
200	98-9482	1	Seal-Oil
210	105-3710	2	Stud
220	98-9641	1	Cover-Case, Gear
230	98-9727	1	Collar
240	104-5159	1	Holder ASM
250	108-3841	1	Filter-Oil



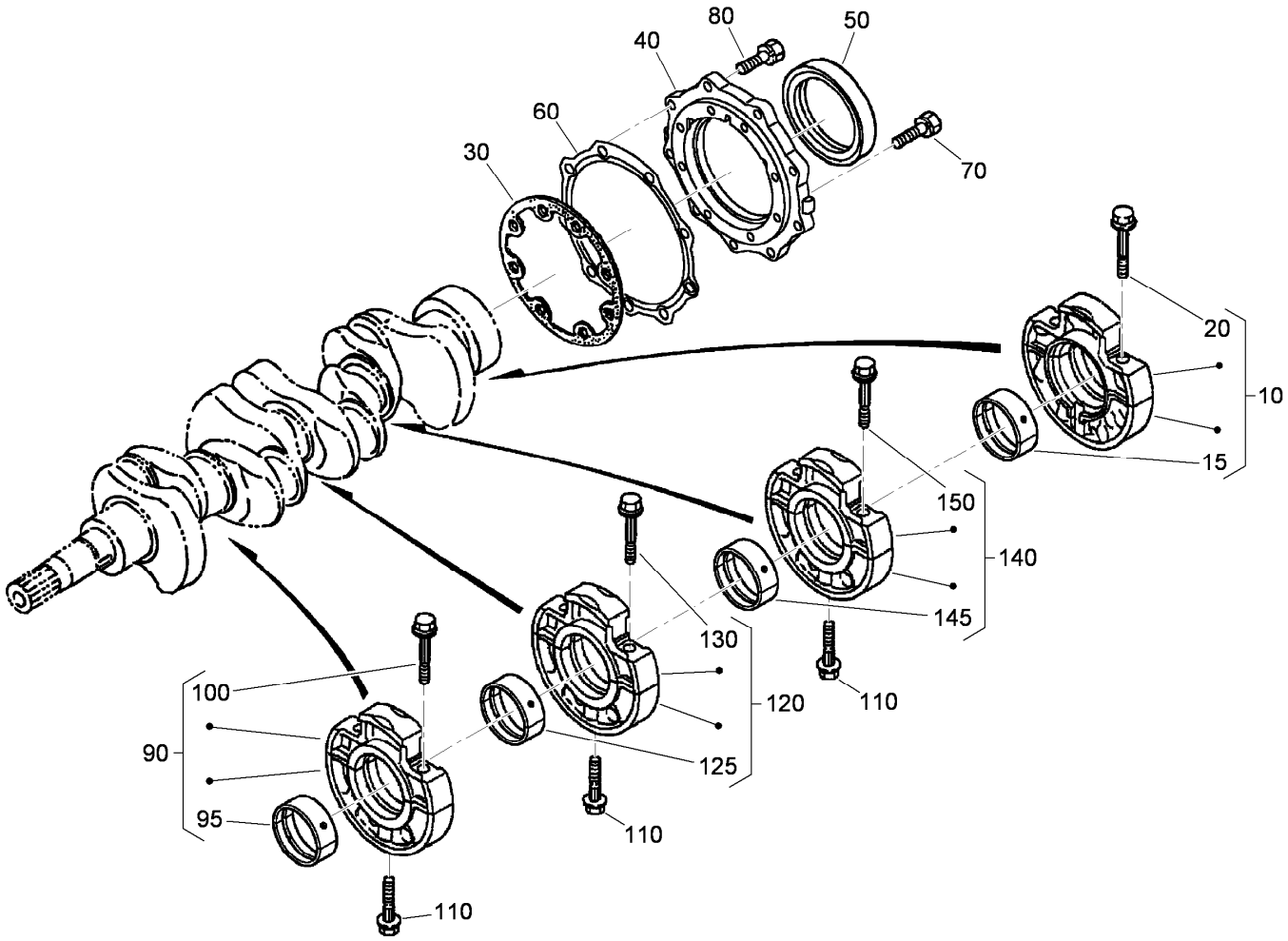
Cylinder Head Cover Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	115-3041	1	Cylinder Head Cover ASM
20	105-3712	1	Gasket-Cover, Head
30	110-3715	1	Valve-Breather
40	110-3714	1	Cover-Breather
50	110-3846	1	O Ring-Breather
60	115-3042	1	Cap-Sealing
70	115-3043	1	Spacer-Breather
80	115-3044	4	Screw-Pan Head
90	100-2204	4	Washer-Spring
100	98-7766	1	Pipe-Return, Water
110	98-9455	4	Nut-Cap
120	98-9454	4	Gasket
130	107-9075	1	Plug-Filler, Oil
140	99-3446	1	O-Ring
150	115-4119	1	Tube-Breather, Turbo
160	108-2859	2	Clamp-Hose



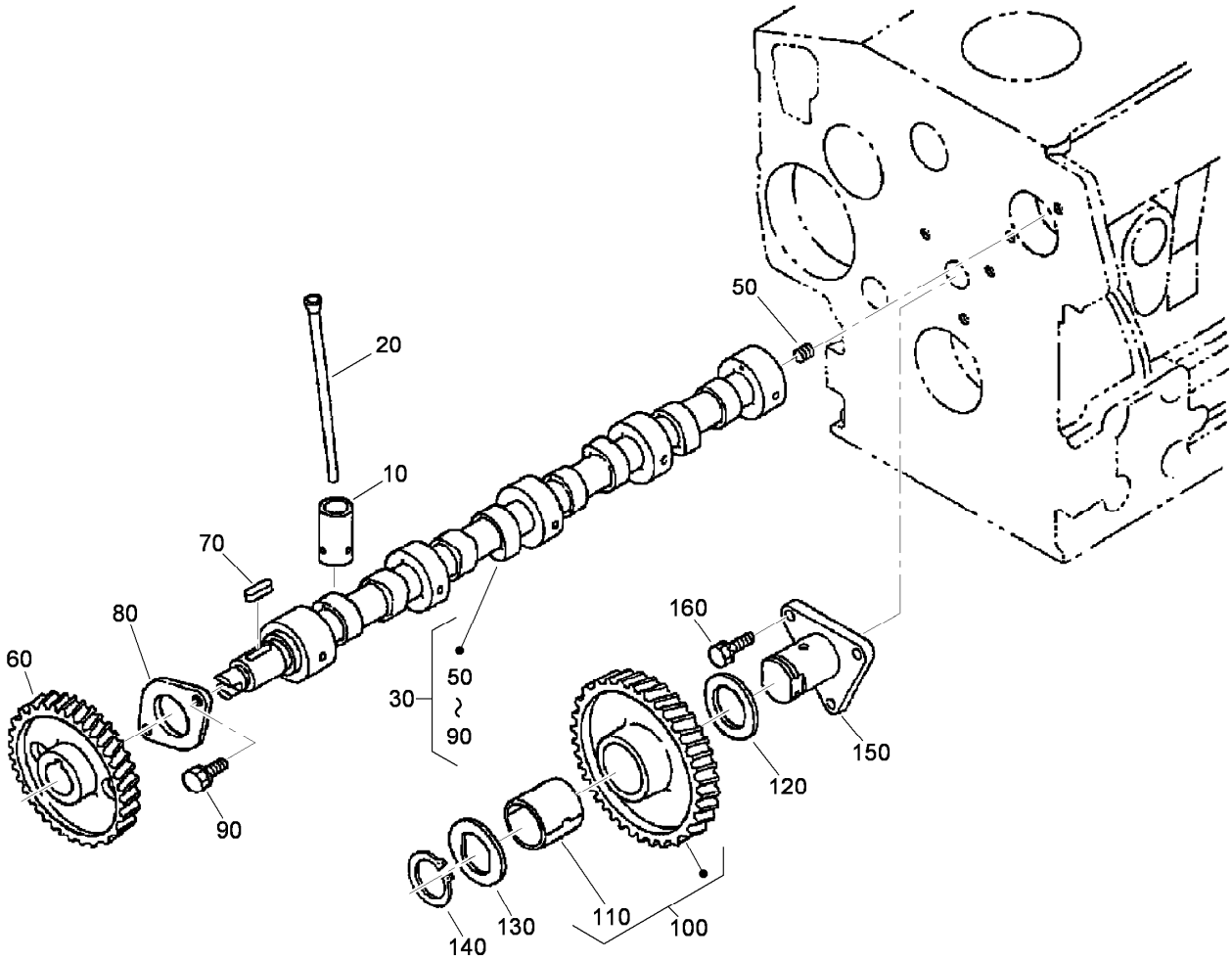
Dipstick and Guide Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3714	1	Gauge-Oil
20	110-3720	1	Plug-Gauge, Oil
30	105-4580	1	Guide-Gauge, Oil



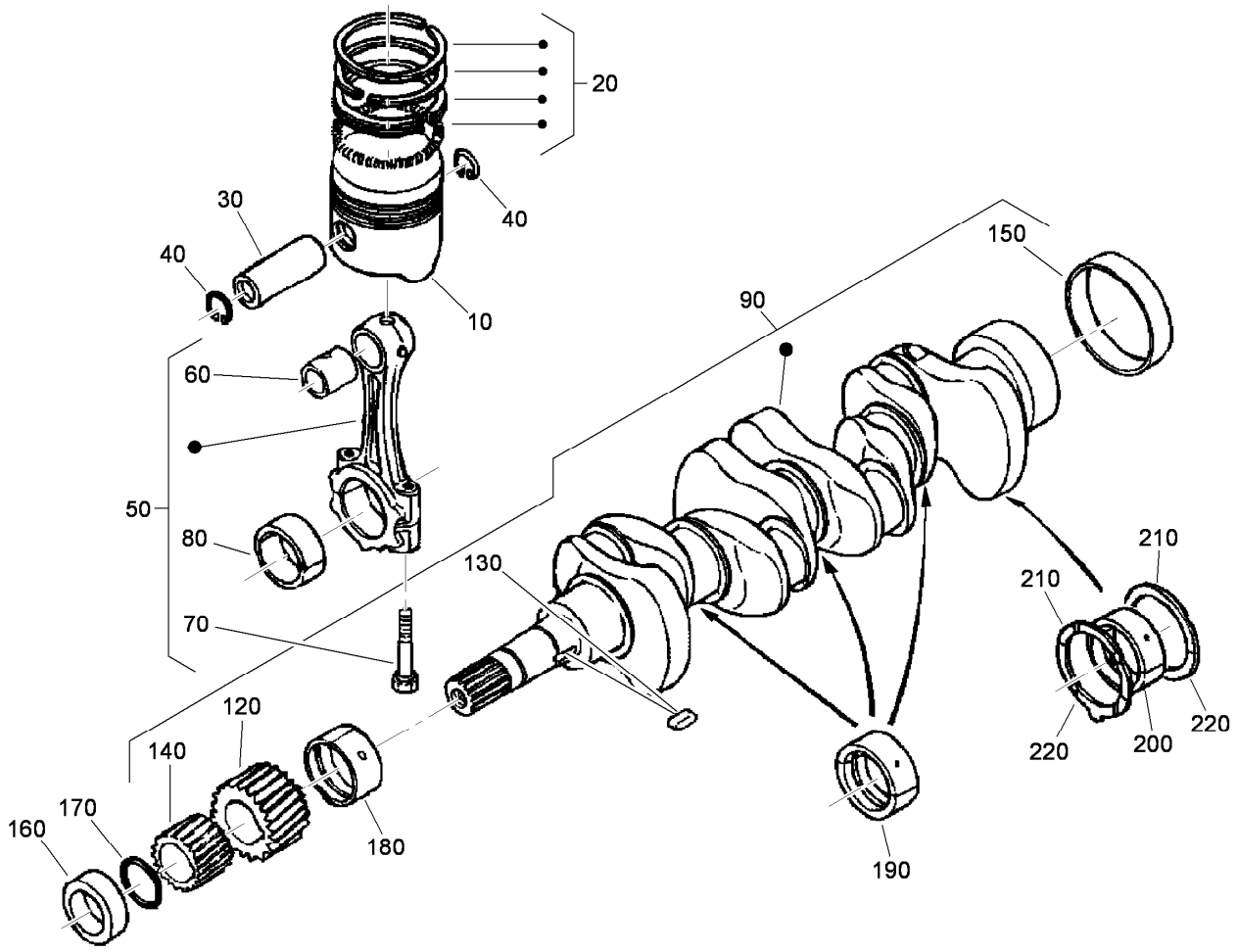
Main Bearing Case Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-7026	1	Wheel Bearing Case ASM
15	112-7045	1	Metal-Crankshaft
20	98-9484	2	Bolt-Case, Bearing
30	98-9634	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	98-9352	8	Bolt
80	98-7568	9	Bolt
90	112-7028	1	Bearing ASM
95	112-7011	1	Bearing-Main (STD)
100	98-9484	2	Bolt-Case, Bearing
110	98-9485	3	Bolt-Case, Bearing
120	112-7027	1	Bearing ASM
125	112-7011	1	Bearing-Main (STD)
130	98-9484	2	Bolt-Case, Bearing
140	115-4120	1	Bearing Case ASM
145	112-7011	1	Bearing-Main (STD)
150	98-9484	2	Bolt-Case, Bearing



Cam Shaft and Idle Gear Shaft Assembly

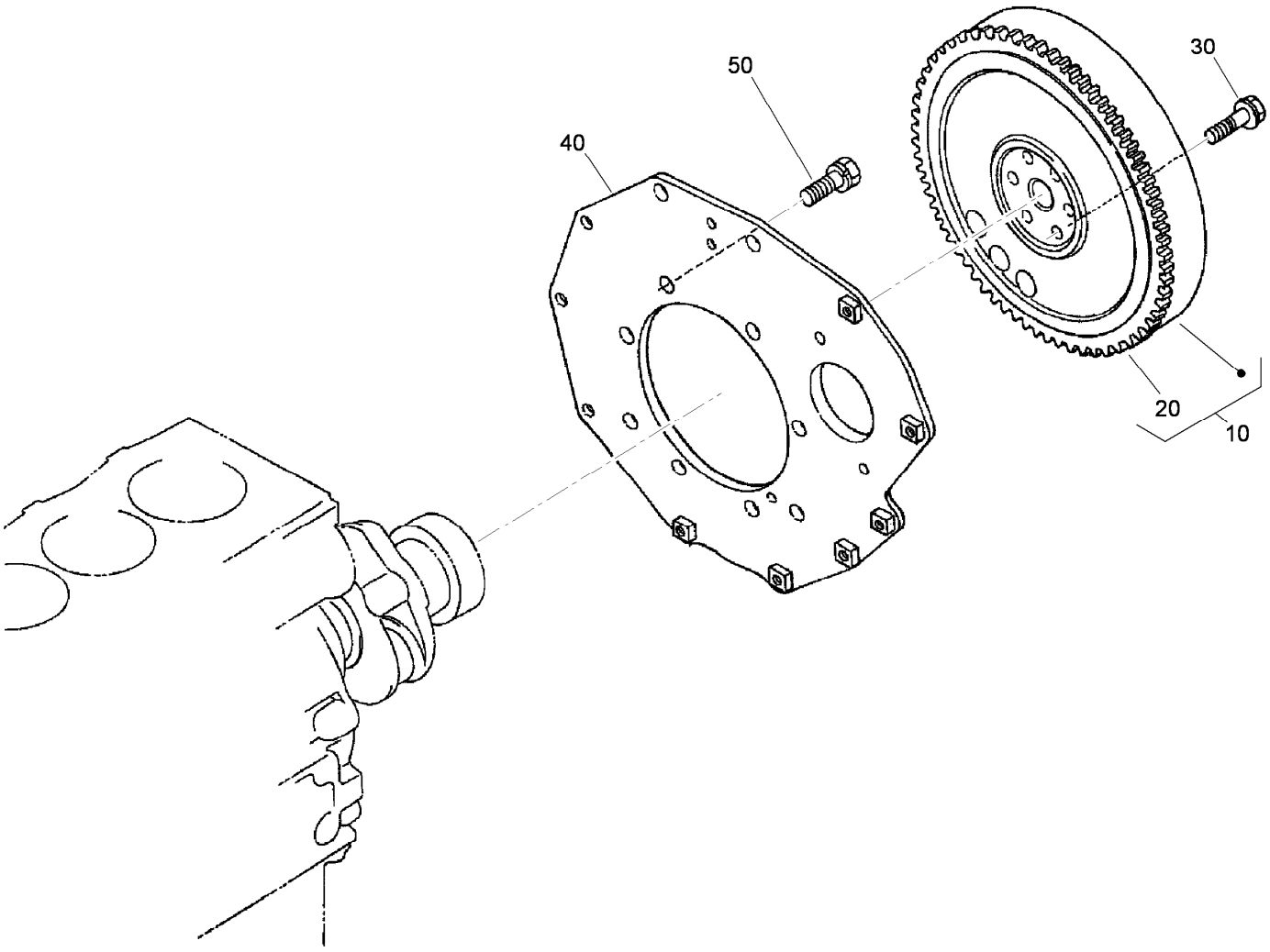
Ref.	*Part Number*	*Qty.*	*Description*
10	112-0185	8	Tappet
20	98-9509	8	Rod-Push
30	112-8402	1	Camshaft ASM
50	98-7449	1	Screw-Set
60	98-9512	1	Gear-Cam
70	98-9378	1	Key-Feather
80	98-9510	1	Stopper-Camshaft
90	98-7692	2	Bolt
100	98-9649	1	Idle Gear ASM
110	98-9650	1	Bushing-Gear, Idle
120	98-9535	1	Collar-Gear, Idle
130	98-9536	1	Collar-Gear, Idle
140	98-9534	1	Circlip-Gear, Idle
150	98-9533	1	Shaft-Gear, Idle
160	98-7692	3	Bolt



Piston and Crankshaft Assembly

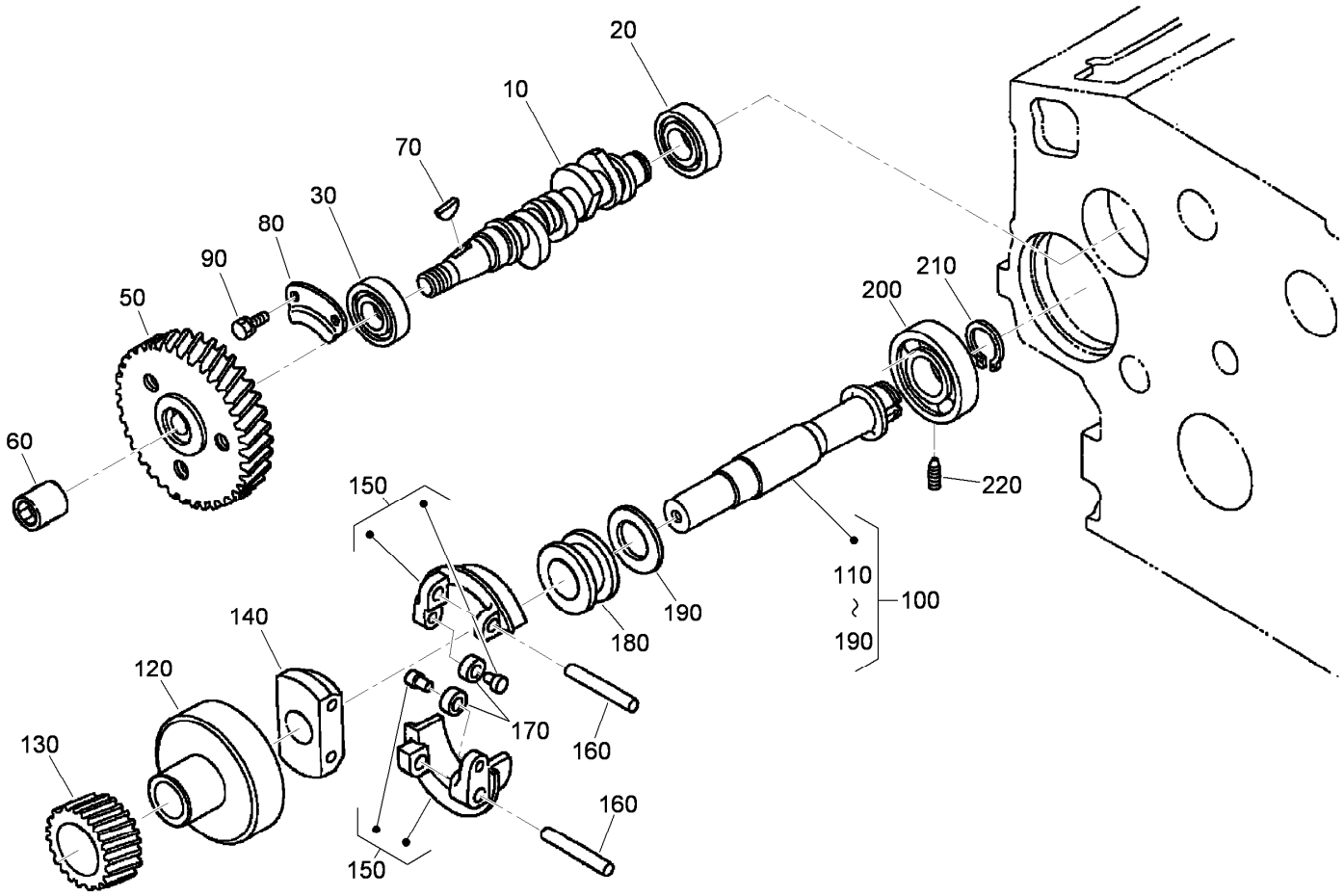
Ref.	Part Number	Qty.	Description
10	98-9550	4	Piston (STD)
10	108-1417	4	Piston (0.5Mm)
20	98-9551	4	Piston Ring ASM (STD)
20	108-1404	4	Piston Ring ASM (0.5Mm)
30	98-9513	4	Pin-Piston
40	98-9514	8	Circlip-Pin, Piston
50	98-9552	4	Connecting Rod ASM
60	115-3014	4	Bushing-Pin, Piston
70	98-9517	8	Bolt-Rod, Connecting
80	98-9553	4	Bearing-Rod (STD)
80	108-1405	4	Metal-Crankpin (-0.2Mm)
80	108-1406	4	Metal-Crankpin (-0.4Mm)
90	105-3718	1	Crankshaft ASM
120	98-9532	1	Gear-Crankshaft
130	98-9666	1	Key
140	98-9542	1	Gear-Drive, Oil Pump
150	98-9522	1	Sleeve-Crankshaft

Ref.	Part Number	Qty.	Description
160	98-9521	1	Collar-Crankshaft
170	105-3783	1	O-Ring
180	112-7005	1	Bearing-Main (STD)
180	112-7009	1	Metal-Crankpin (-0.2Mm)
180	112-7010	1	Metal-Crankpin (-0.4Mm)
190	112-7011	3	Bearing-Main (STD)
190	112-7012	3	Metal-Crankpin (-0.2Mm)
190	112-7013	3	Metal-Crankpin (-0.4Mm)
200	112-7006	1	Bearing-Main (STD)
200	112-7007	1	Metal-Crankshaft (.2Mm)
200	112-7040	1	Metal-Crankshaft (-0.4Mm)
210	98-9413	2	Bearing-Thrust (STD)
210	98-9414	2	Bearing-Thrust (0.2Mm)
210	98-9415	2	Bearing-Thrust (0.4Mm)
220	98-9688	2	Bearing-Thrust (STD)
220	98-9689	2	Bearing-Thrust (0.2Mm)
220	98-9690	2	Bearing-Thrust (0.4Mm)



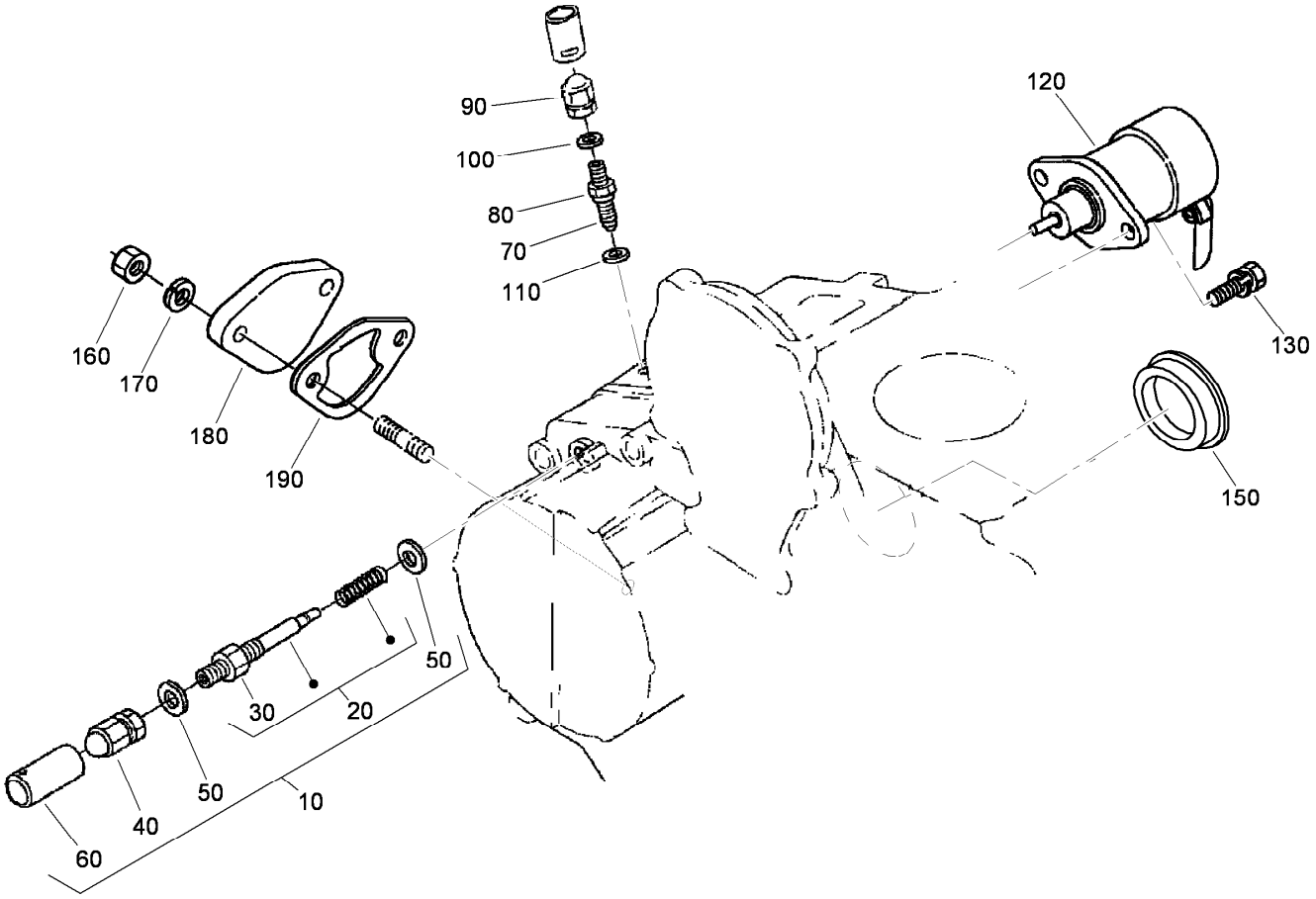
Flywheel Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3721	1	Flywheel ASM
20	115-3015	1	Gear-Ring
30	98-9537	6	Bolt-Flywheel
40	98-9486	1	Plate-End, Rear
50	98-9392	8	Bolt



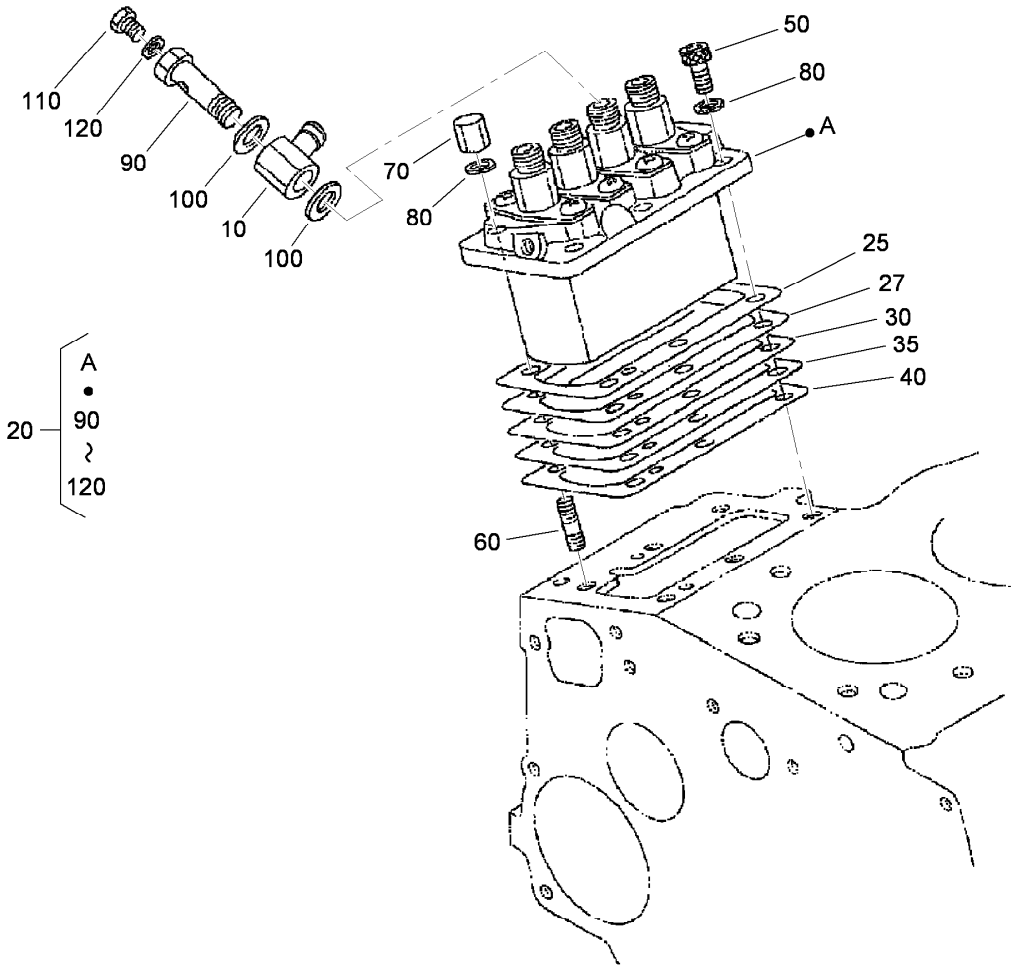
Fuel Camshaft and Governor Shaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3723	1	Camshaft-Fuel
20	107-9077	1	Bearing-Ball
30	107-9078	1	Bearing-Ball
50	98-9669	1	Gear-Pump, Injection
60	98-9590	1	Nut-Cap
70	98-9595	1	Key-Woodruff
80	98-9511	1	Stopper-Fuel, Camshaft
90	98-7692	2	Bolt
100	105-3724	1	Governor Shaft ASM
110	105-3725	1	Shaft, Governor
120	98-9562	1	Holder-Gear, Governor
130	98-9673	1	Gear-Governor
140	98-9561	1	Holder-Weight, Governor
150	98-9559	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



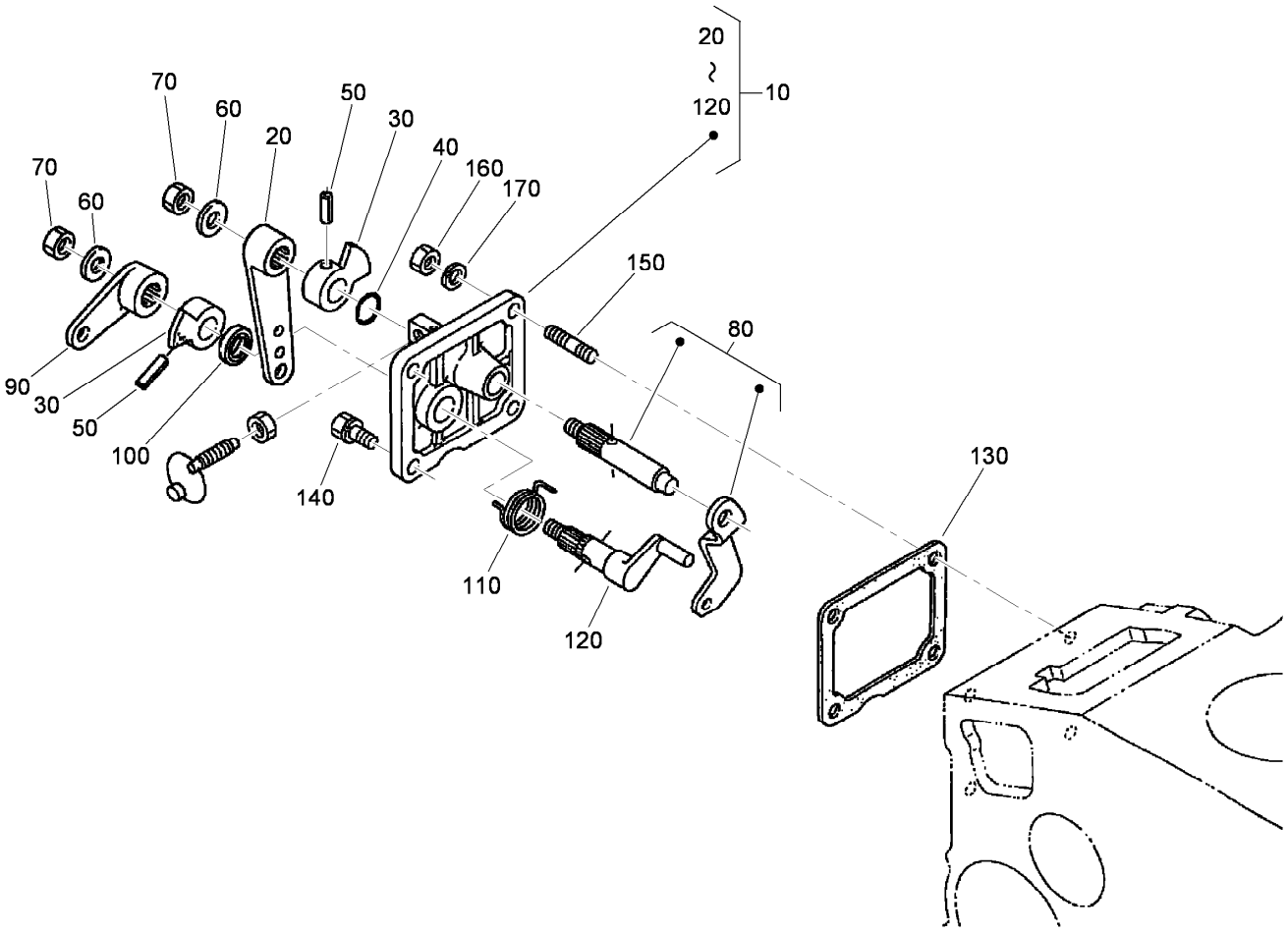
Idle Apparatus Assembly

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
100	98-7654	1	Gasket
110	107-9081	1	Gasket
120	104-5155	1	Solenoid-Stop
130	115-3039	2	Bolt-HSH
150	112-7016	1	Cover-Pump
160	98-7572	2	Nut
170	98-7699	2	Washer-Spring
180	99-3514	1	Cover
190	98-9636	1	Gasket-Pump, Fuel



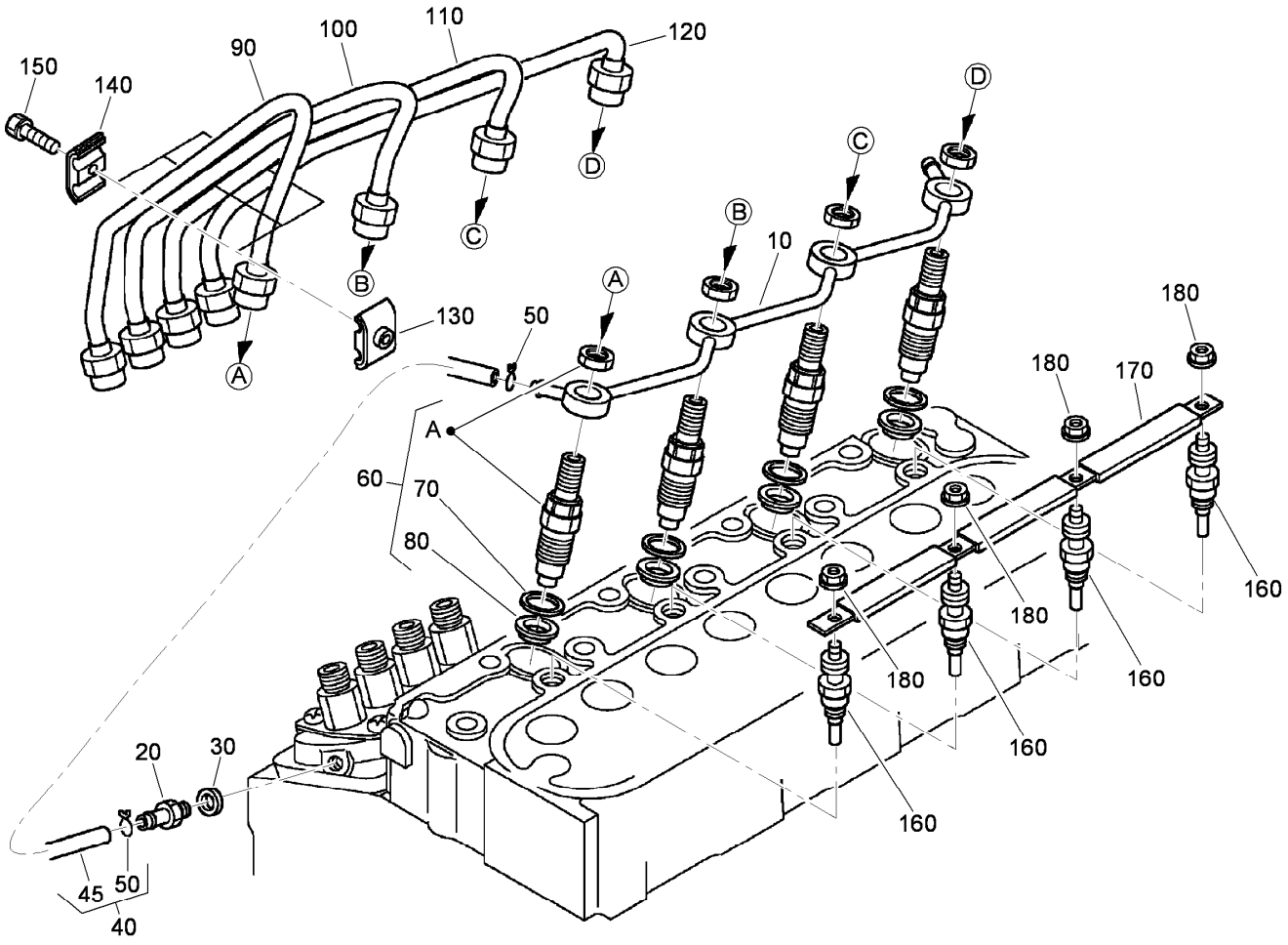
Injection Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9596	1	Joint-Eye
20	105-3727	1	Injection Pump ASM
25	115-3016	1	Shim-Pump, Injection (.350Mm)
27	115-3017	1	Shim-Pump, Injection (.175Mm)
30	105-3728	1	Shim-Pump, Injection (.20Mm)
35	105-3729	1	Shim-Pump, Injection (.25Mm)
40	105-3730	1	Shim-Pump, Injection (.30Mm)
50	98-9361	3	Bolt-HSH
60	98-9438	3	Stud
70	98-9440	3	Nut-Cap
80	98-7699	6	Washer-Spring
90	98-9464	1	Bolt-Joint
100	98-9445	2	Gasket
110	98-9430	1	Screw
120	98-9446	1	Gasket



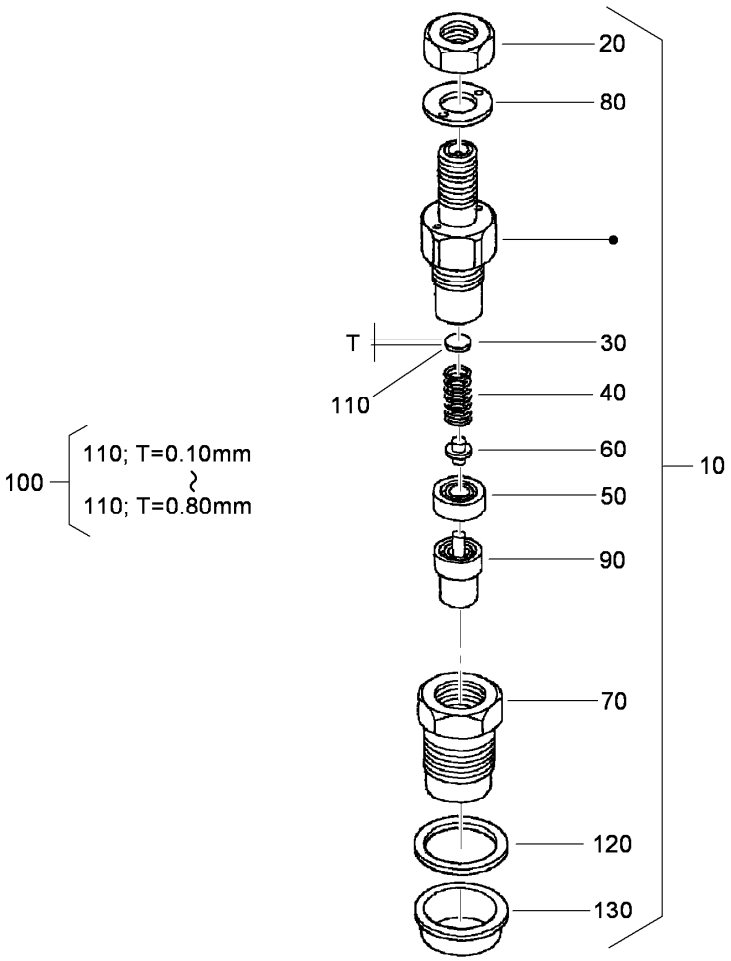
Speed Control Plate Assembly

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	2	Bolt
150	105-3710	2	Stud
160	98-7572	2	Nut
170	98-7699	2	Washer-Spring



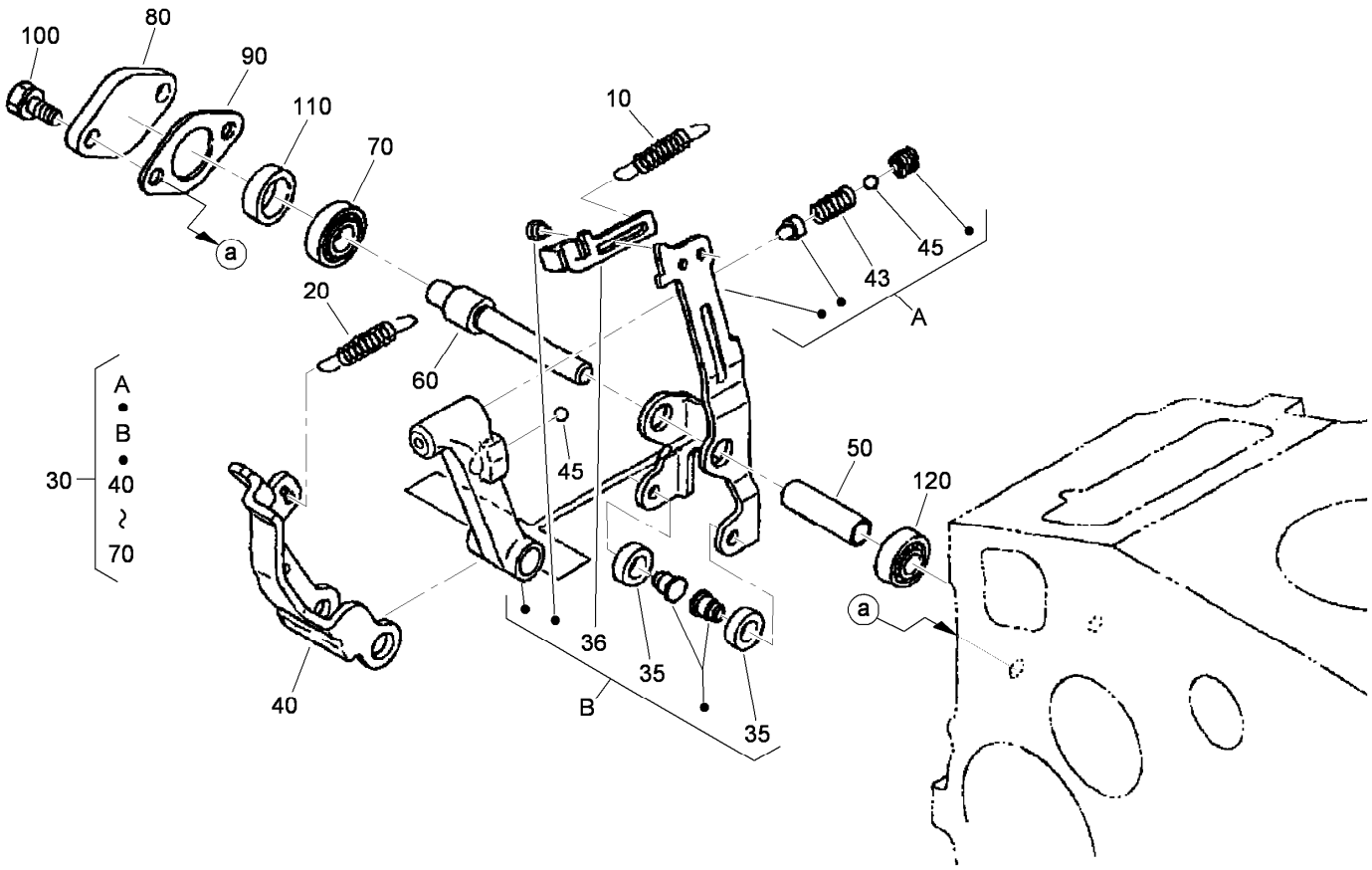
Nozzle Holder and Glow Plug Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3737	1	Over Flow 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	108-2866	4	Nozzle Holder Kit
70	98-7676	4	Gasket
80	98-7677	4	Seal-Heat
90	98-9622	1	Pipe-Injection
100	98-9654	1	Pipe-Injection
110	98-9655	1	Pipe-Injection
120	105-3738	1	Pipe-Injection
130	98-7682	3	Clamp-Pipe
140	98-7683	3	Clamp-Pipe
150	98-7684	3	Screw (W/Washer)
160	98-9623	4	Plug-Glow
170	105-3739	1	Cord-Plug, Glow
180	99-8377	4	Nut-Flange



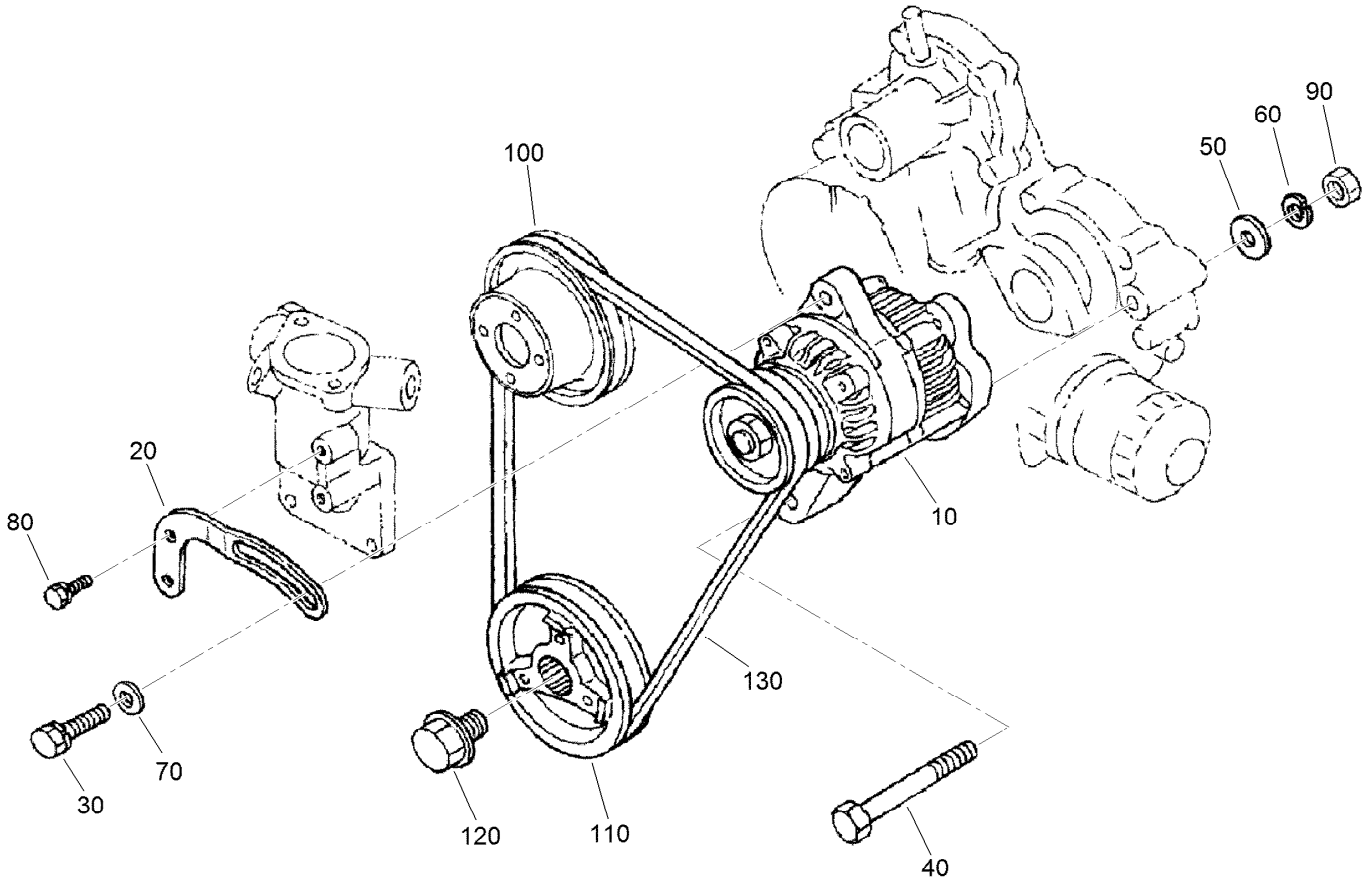
Nozzle Holder Component Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-2866	4	Nozzle Holder Kit
20	99-8301	4	Nut
30	99-8302	4	Washer-Adjusting
40	99-8303	4	Spring-Nozzle
50	99-8304	4	Spacer-Distance
60	99-8305	4	Rod-Push
70	99-8306	4	Nut-Nozzle
80	99-8307	4	Washer-Plain
90	107-7826	4	Piece-Nozzle
100	99-8309	4	Adjusting Washer ASM
110	99-8310	4	Washer-Adjust (0.10Mm)
110	99-8311	4	Washer-Adjust (0.20Mm)
110	99-8312	4	Washer-Adjust (0.30Mm)
110	99-8313	4	Washer-Adjust (0.40Mm)
110	99-8314	4	Washer-Adjust (0.50Mm)
110	99-8315	4	Washer-Adjust (0.52Mm)
110	99-8316	4	Washer-Adjust (0.54Mm)
110	99-8317	4	Washer-Adjust (0.56Mm)
110	99-8318	4	Washer-Adjust (0.58Mm)
110	99-8319	4	Washer-Adjust (0.80Mm)
120	98-7676	4	Gasket
130	98-7677	4	Seal-Heat



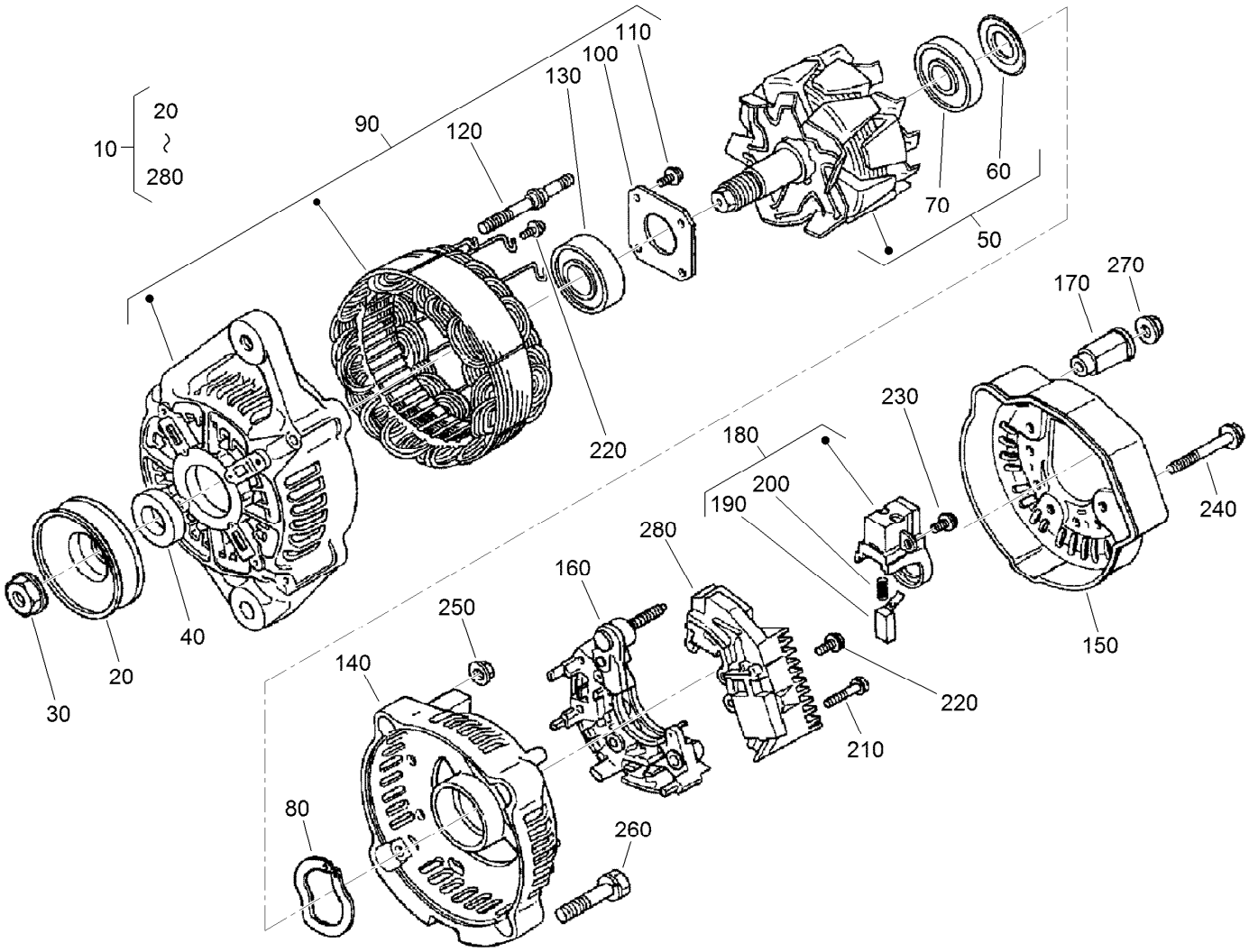
Governor Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3741	1	Spring-Start
20	98-9681	1	Spring-Governor
30	108-4427	1	Fork Lever ASM
35	98-9692	2	Roller
36	107-9083	1	Lever-Thrust
40	107-9084	1	Lever-Fork
43	108-2867	1	Spring
45	98-7580	2	Ball
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



Alternator and Pulley Assembly

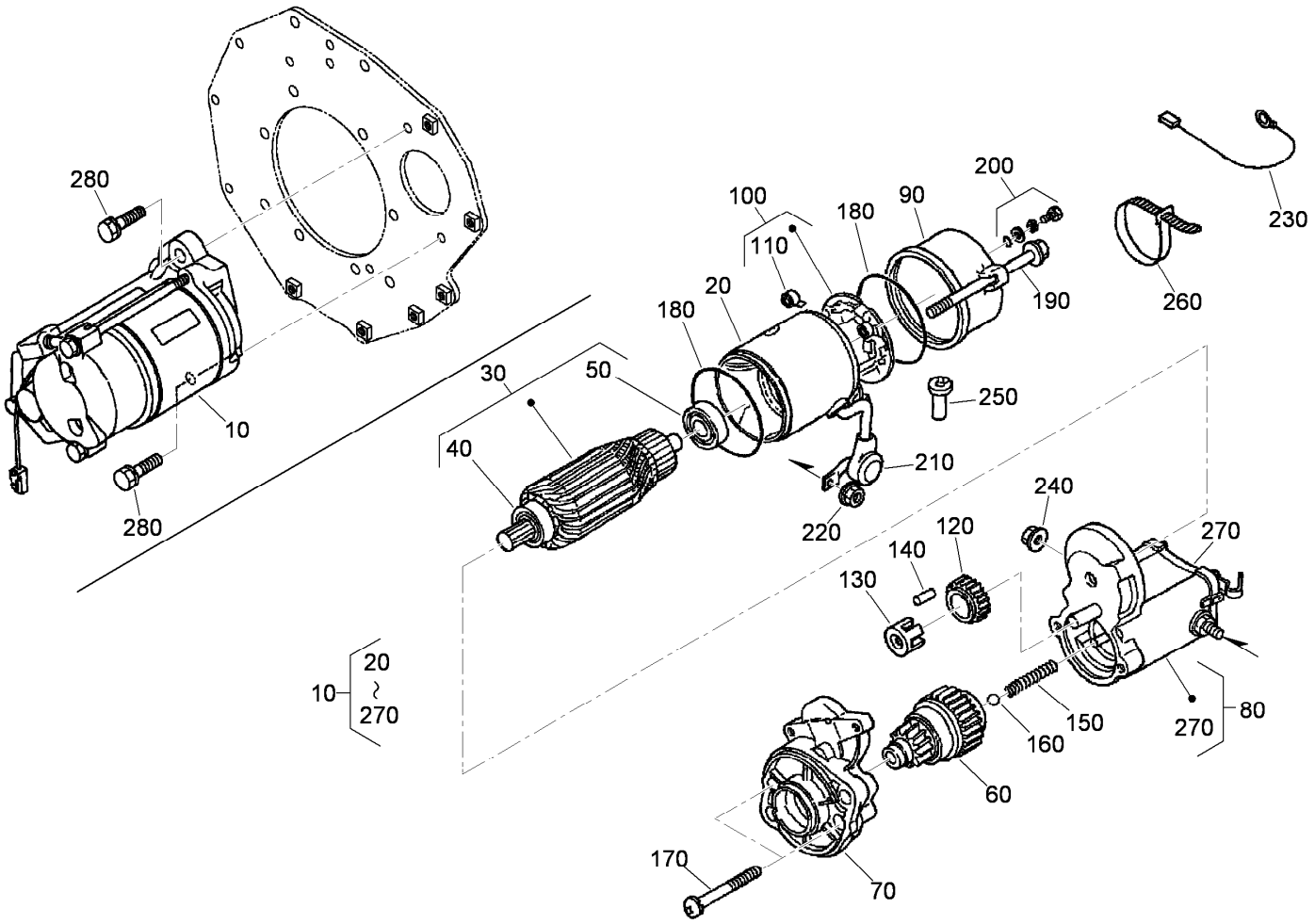
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9474	1	Alternator ASM
20	112-7047	1	Stay-Dynamo
30	108-7088	1	Bolt
40	98-9360	1	Bolt
50	98-7696	1	Washer-Plain
60	98-7738	1	Washer-Spring
70	100-9233	1	Washer-Plain
80	98-7692	1	Bolt
90	98-7737	1	Nut
100	110-0972	1	Pulley
110	105-3745	1	Pulley-Drive, Fan
120	98-9585	1	Bolt
130	98-9676	1	V-Belt



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

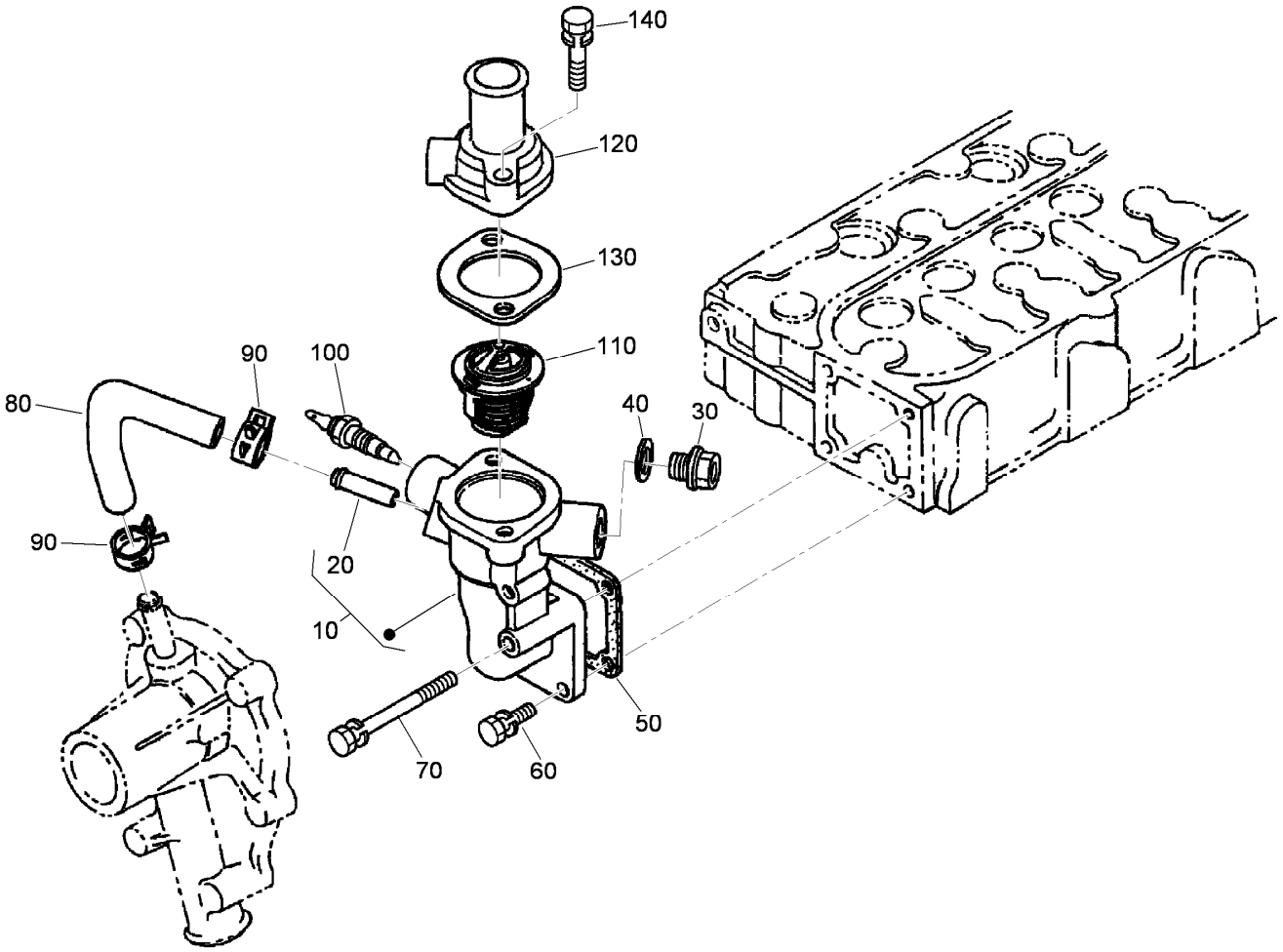
Ref.	Part Number	Qty.	Description
150	107-0140	1	Cover-End
160	98-7721	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Brush Holder ASM
190	98-7724	2	Brush
200	98-7725	2	Spring-Brush
210	98-7726	2	Screw-Head, Round
220	98-7727	6	Screw-Head, Round
230	98-7728	1	Screw-Head, Round
240	98-7729	3	Bolt
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	110-3799	1	Regulator ASM



Starter Assembly

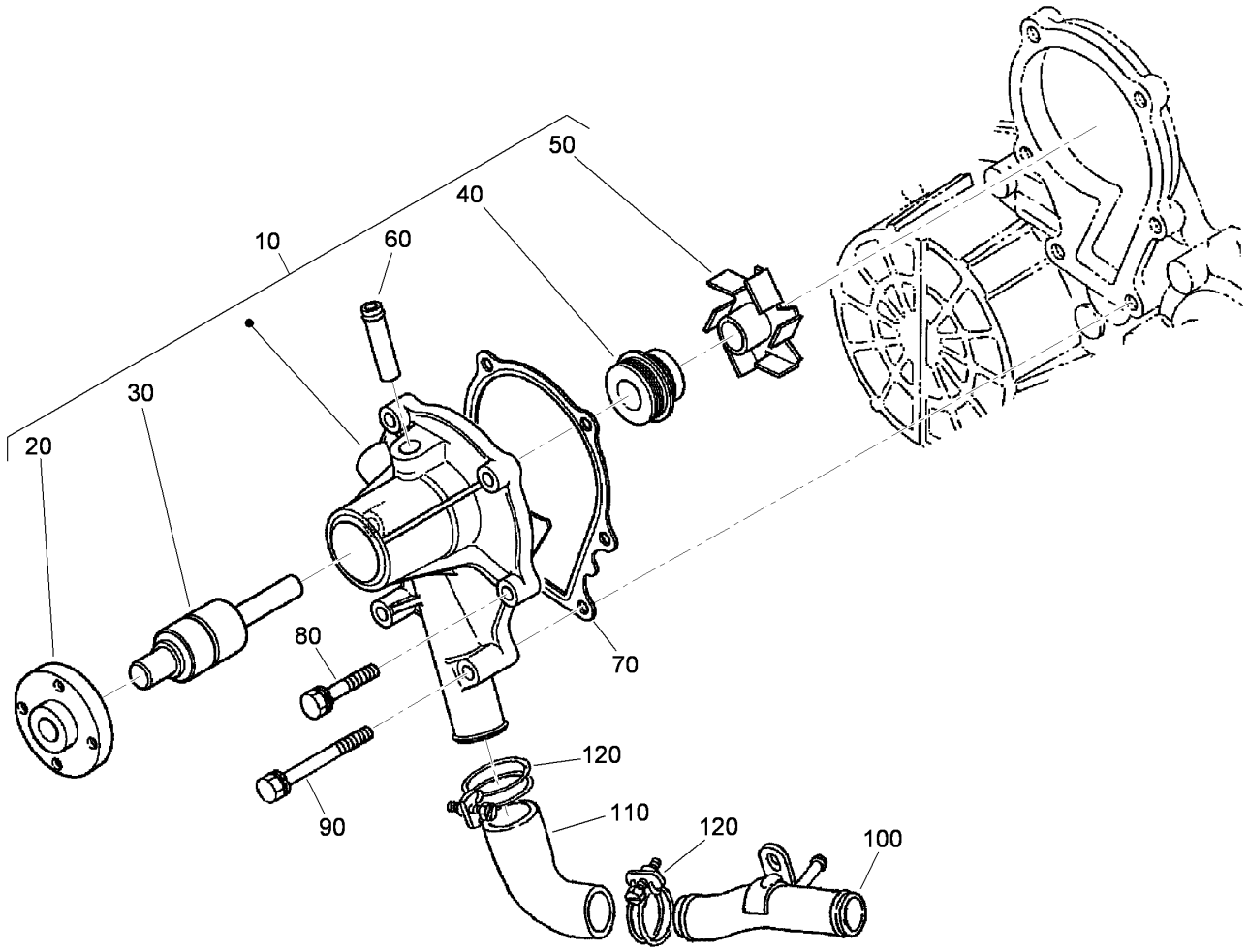
Ref.	Part Number	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear
130	98-7752	1	Retainer
140	98-7753	5	Roller

Ref.	Part Number	Qty.	Description
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
270	105-2886	1	Cover ASM
280	98-7697	2	Bolt



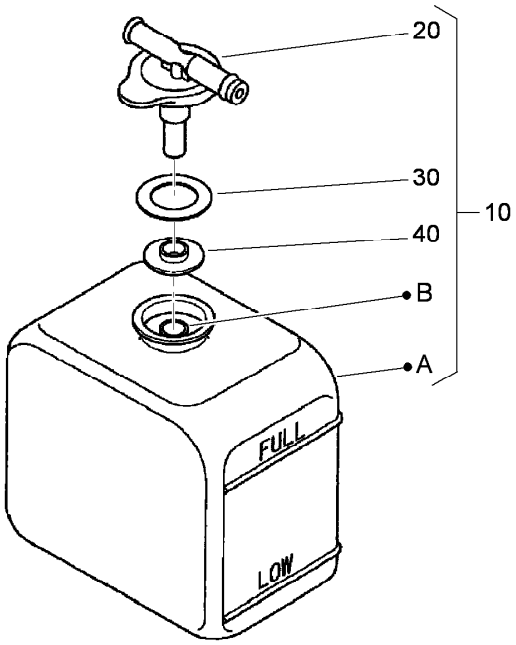
Water Flange and Thermostat Assembly

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	98-9579	2	Band-Pipe
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



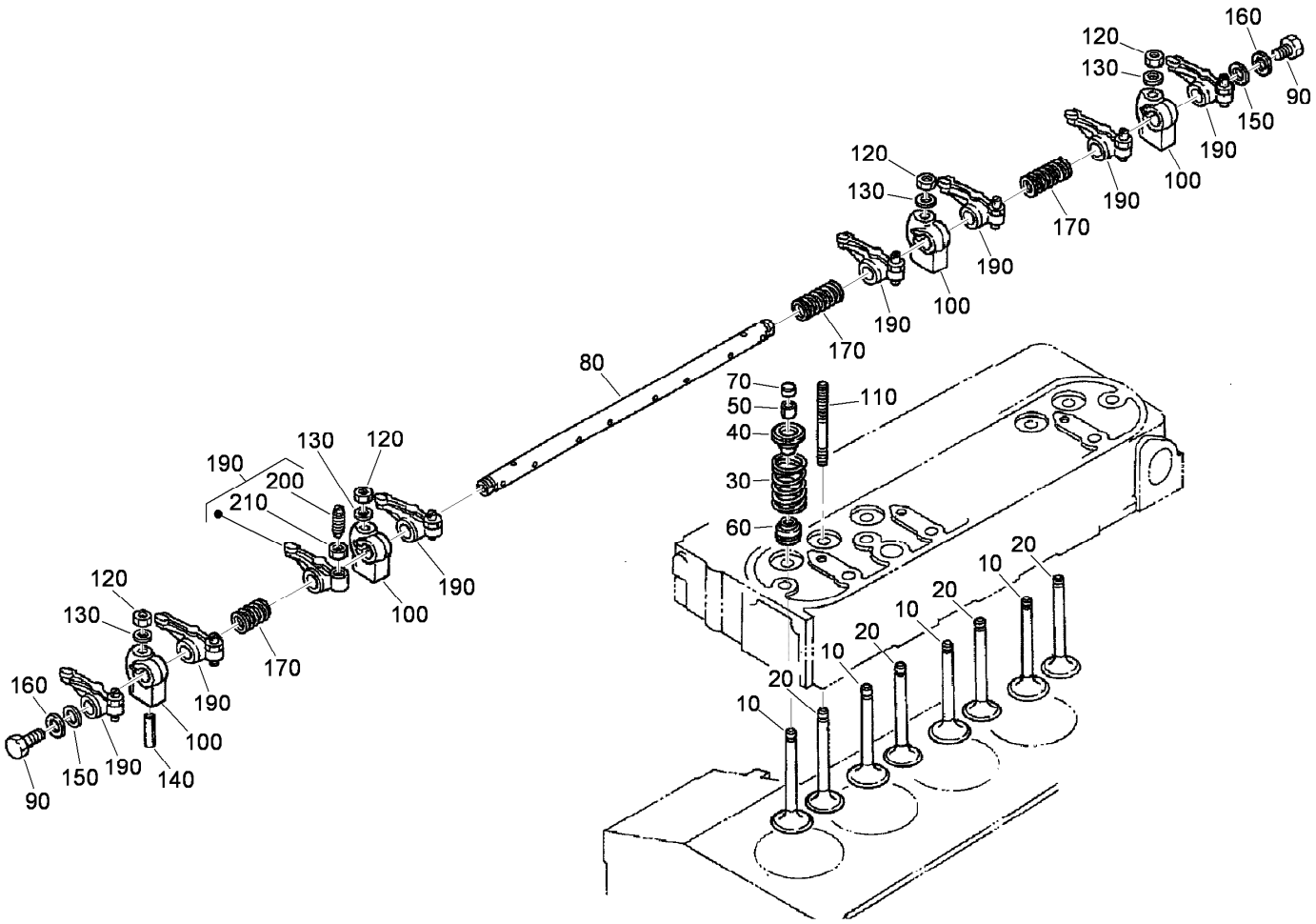
Water Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-9089	1	Water Pump ASM
20	99-3516	1	Flange-Pump, Water
30	99-3517	1	Bearing-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	99-8379	1	Pipe-Water
110	107-9091	1	Pipe-Water
120	98-9717	2	Clamp



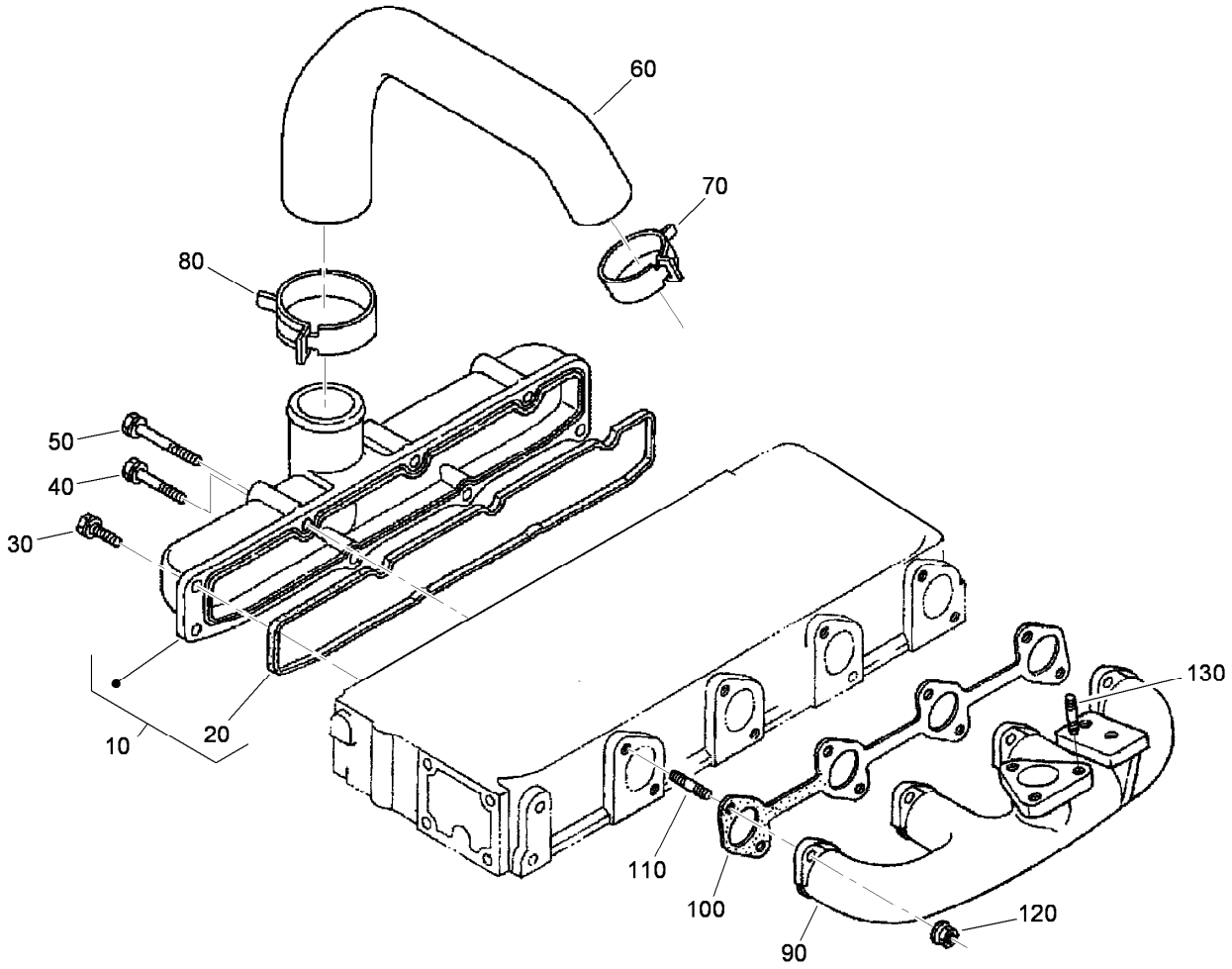
Overflow Bottle Assembly

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



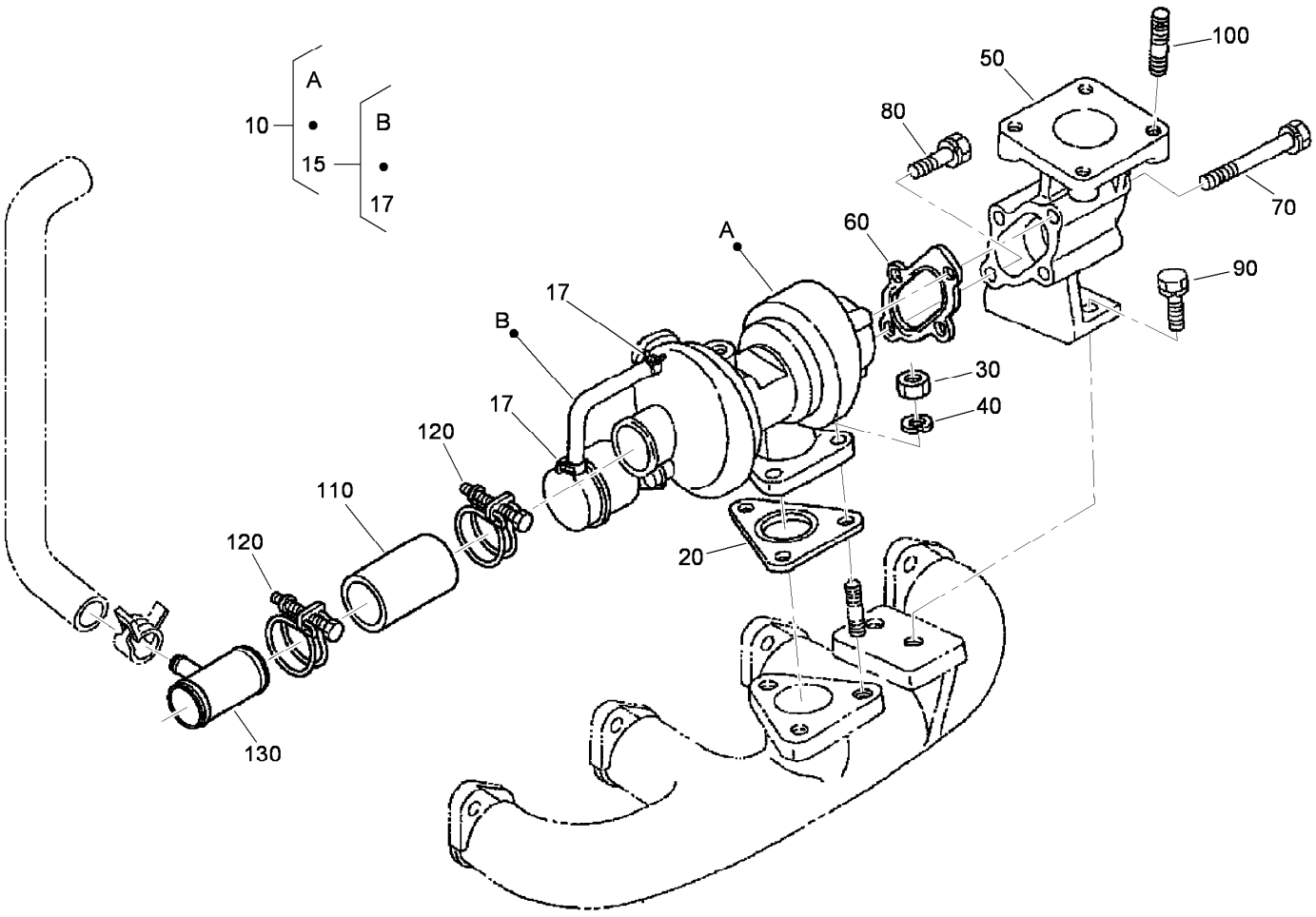
Valve and Rocker Arm Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-7018	4	Valve-Inlet
20	112-7019	4	Valve-Exhaust
30	98-9626	8	Spring-Valve
40	107-9092	8	Retainer-Spring
50	98-9390	8	Collet-Spring, Valve
60	99-8385	8	Seal-Stem, Valve
70	98-9497	8	Cap-Valve
80	105-3757	1	Shaft-Arm, Rocker
90	100-9265	2	Bolt
100	98-9505	4	Bracket-Arm, Rocker
110	98-9506	4	Stud
120	98-9393	4	Nut
130	98-9385	4	Washer-Flat
140	105-3758	2	Pin-Spring
150	98-9507	2	Washer-Shaft, R-Arm
160	110-3832	2	Washer-Plain
170	98-9504	3	Spring-Arm, Rocker
190	112-7020	8	Rocker Arm ASM
200	98-9502	8	Screw-Adjusting
210	98-9503	8	Nut



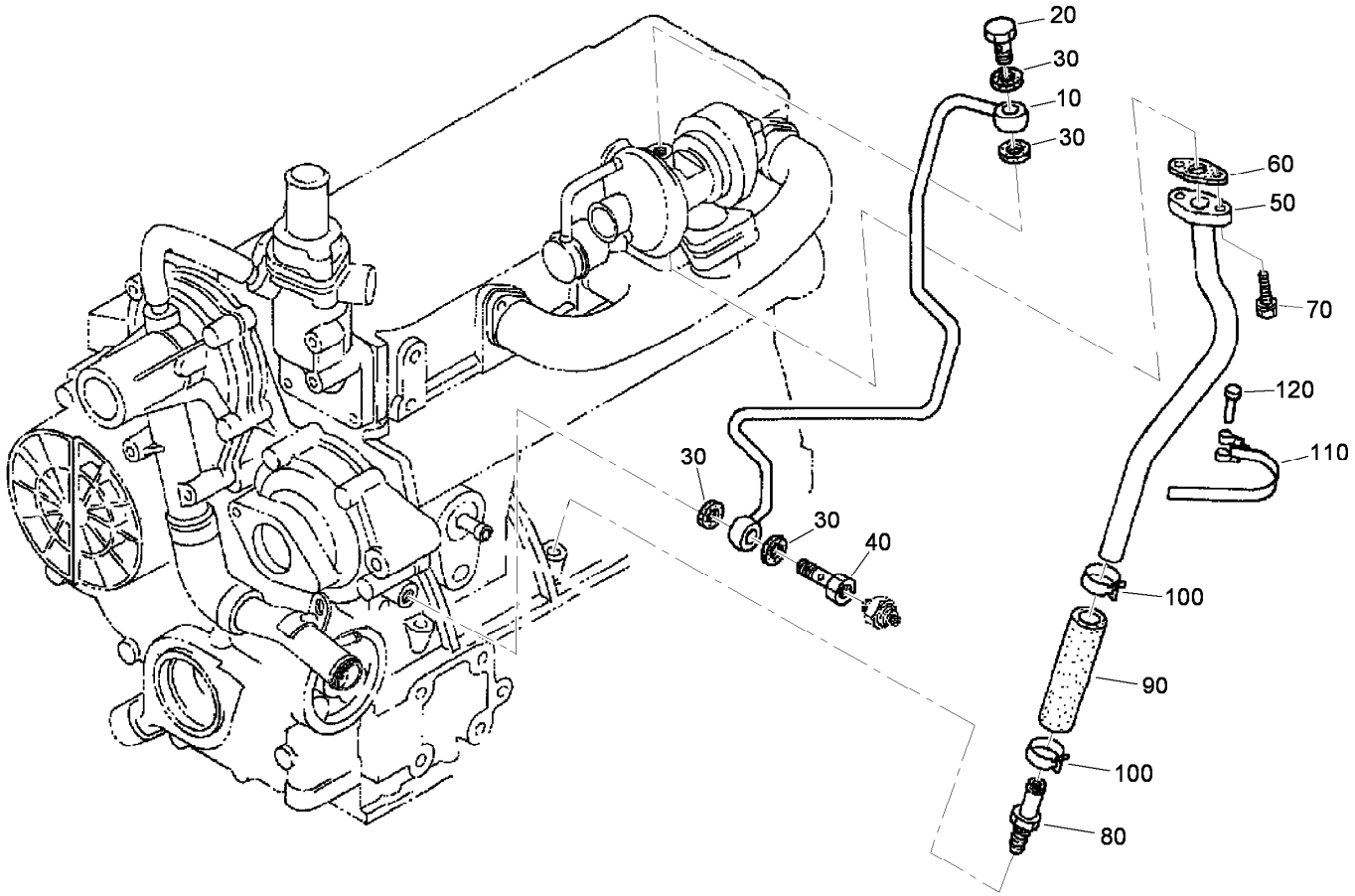
Inlet and Exhaust Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3759	1	Inlet Manifold ASM
20	105-3760	1	Gasket-Manifold, Inlet
30	98-7605	3	Bolt
40	98-9353	2	Bolt
50	105-3797	3	Bolt
60	115-4123	1	Hose-Inlet
70	115-3048	1	Clamp-Hose
80	115-3049	1	Clamp-Hose
90	108-4425	1	Manifold-Exhaust
100	105-3765	1	Gasket-Ex-Manifold
110	98-9588	8	Stud
120	98-9665	8	Nut
130	99-8342	3	Stud



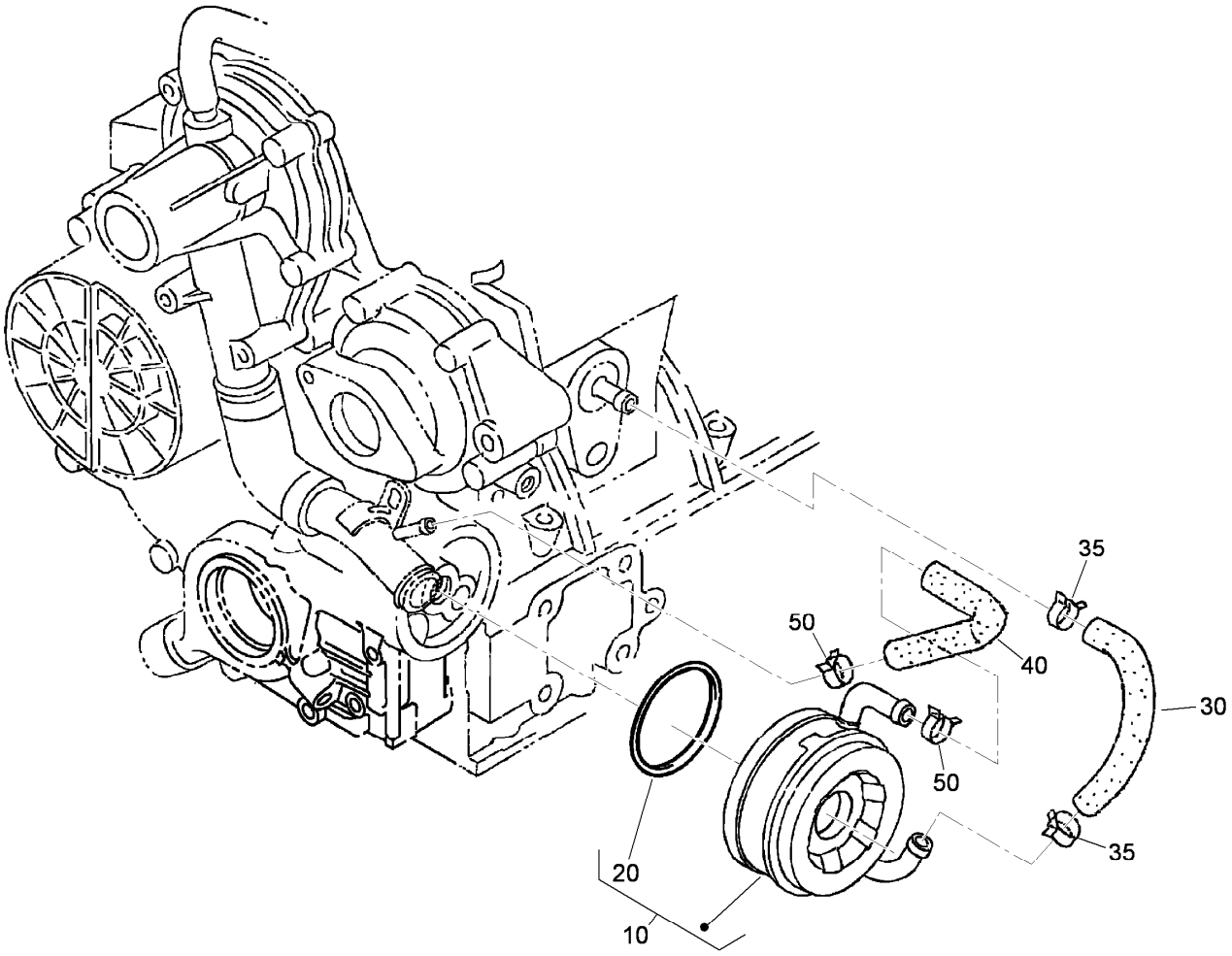
Turbo Charger Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-1412	1	Turbo Charger ASM
15	108-1413	1	Hose ASM
17	108-1414	2	Clamp-Hose
20	105-3767	1	Gasket
30	98-7534	3	Nut
40	105-2893	3	Washer-Spring
50	99-8335	1	Flange-Muffler
60	105-3768	1	Gasket
70	115-4100	3	Bolt
80	105-2895	1	Bolt
90	98-7610	2	Bolt
100	98-7769	4	Stud
110	115-4101	1	Tube-Inlet, Turbo
120	115-4102	2	Band
130	115-4103	1	Pipe-Inlet, Breather



Oil Pipe (Turbo Charger) Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	108-4424	1	Oil Pipe ASM
20	115-4126	1	Bolt-Joint, Eye
30	99-8346	4	Gasket
40	98-9417	1	Bolt-Joint, Eye
50	108-4423	1	Oil Pipe ASM
60	108-4422	1	Gasket
70	98-7605	2	Bolt
80	105-3771	1	Oil Pipe ASM
90	98-9721	1	Pipe-Oil
100	98-9714	2	Clamp-Hose
110	98-9601	1	Clamp-Pipe
120	98-9591	1	Pin-Band



Oil Cooler Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	104-5158	1	Oil Cooler ASM
20	112-7030	1	O-Ring
30	98-9724	1	Pipe-Cooler, Oil
35	98-9579	2	Band-Pipe
40	98-9578	1	Pipe-Return, Water
50	98-9579	2	Band-Pipe

Attachments and Accessories

For 30859 Groundsmaster 4300-D Traction Unit

Product Name	Model/Part
Air Ride Seat Suspension Kit	03667
Premium Bio-Degradable Hydraulic Fluid (5 Gallon Pail)	100-7674
Wheel Weight Kit	104-1478
Premium All Season Hydraulic Fluid (55 Gallon Drum)	108-1177
Premium All Season Hydraulic Fluid (5 Gallon Pail)	108-1178
Premium Engine Oil, 10w30 (55 Gallon Drum)	108-1179
Premium Engine Oil, 10w30 (5 Gallon Pail)	108-1180
Premium Bio-Degradable Hydraulic Fluid (55 Gallon Drum)	108-1189
Premium All Purpose Grease (Tube)	108-1190
Air Cleaner Safety Element	108-3813
22in Combo Blade	108-7395-03
ROPS Extension Kit	110-8030
Operator Fan Kit - US Sales Only, 3in ROPS Post	110-8804
Weight Plate	110-8985-03
22in High Lift Blade	114-0434-03
22in Atomic Blade	114-0435-03
Roller Scraper Kit	117-0149
Mulching Kit	117-0185
22in Angle Sail Blade	117-0209-03
Hydraulic Hose Kit	117-0289
22in Rotary Cutting Unit Sectional Roller ASM	117-0297
Premium Synthetic Bio-Degradable Hydraulic Fluid (5 Gallon Pail)	119-2157
Premium Synthetic Bio-Degradable Hydraulic Fluid (55 Gallon Drum)	119-2158
Service Pack-Combo Blade	119-6957
400-Hour Filter Maintenance Kit	30055
Hardtop Sunshade	30359
22in Rotary Cutting Unit	30845
Diagnostic Display Box	85-4750
Spark Arrestor	98-9099



Count on it.