Form No. 3478-636 Rev A

TORO®

Count on it.

Parts Catalog

Reelmaser 3100-D

Traction Unit

Model No. 03170—Serial No. 419000000 and Up

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

CE

3478-636 A

Ordering Replacement Parts

To order replacement parts, please supply the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1,6:2, and 6:3. However, you may also order any part individually. Reference numbers of this type appear in illustration and in parts lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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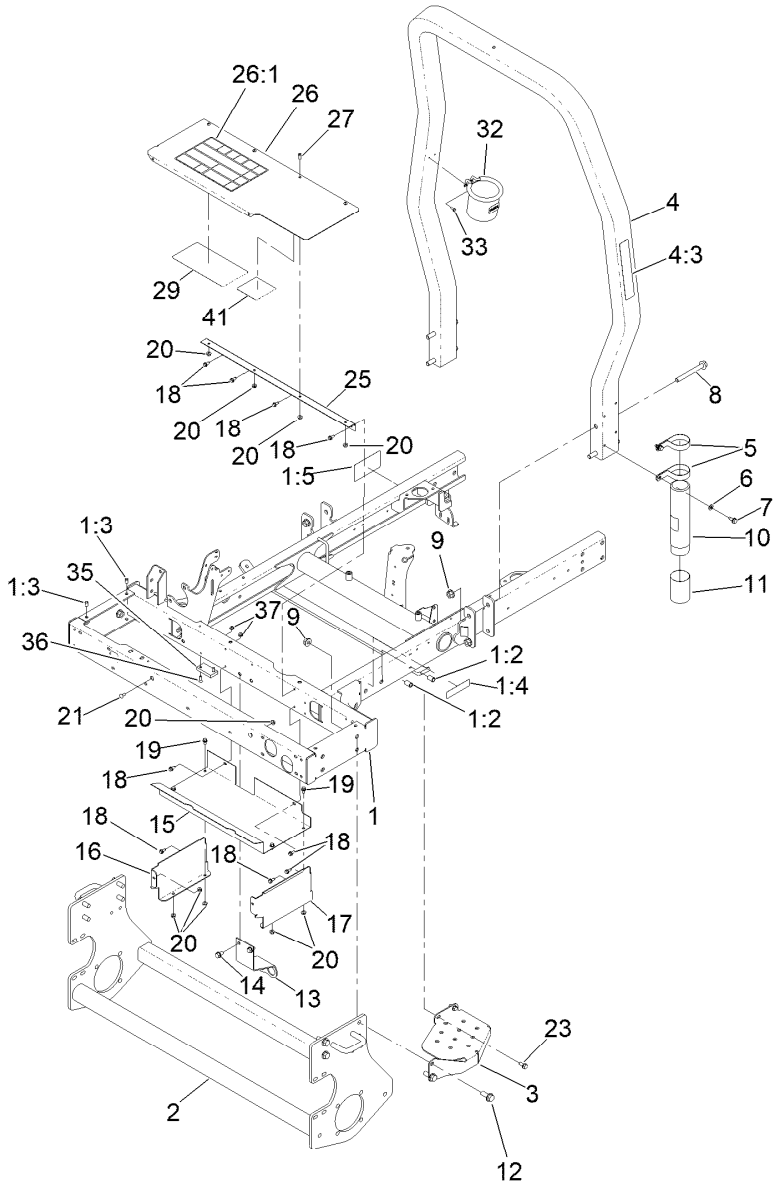
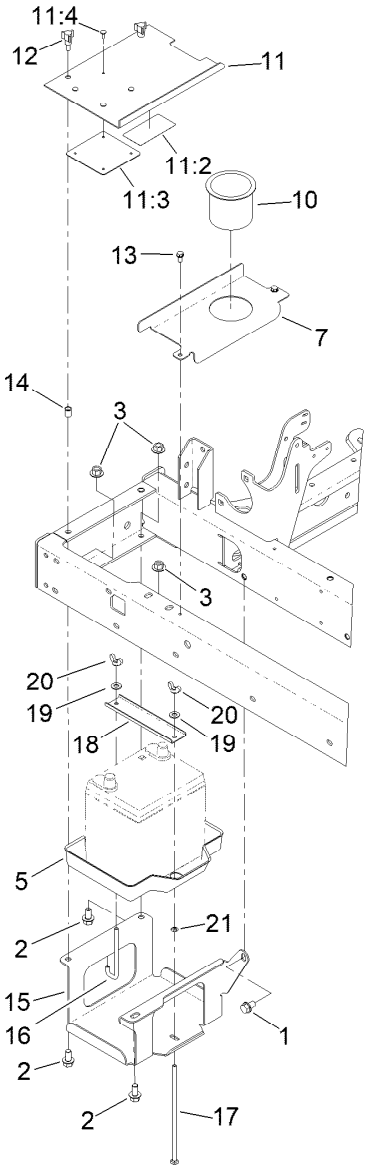


Frame and Roll-Over Protection System Assembly

Ref.	Part Number	Qty.	Description
1	121-3639	1	Frame ASM W/Decals
1:2	32148-8	2	Nut-Clinch
1:3	32148-6	2	Nut-Clinch
1:4	133-8062	1	Decal-Spark Arrestor
1:5	117-3270	2	Decal-Danger
2	95-8568-03	1	Frame-Lower
3	99-3375-03	1	Step
4	127-8493	1	ROPS ASM
4:3	136-3702	1	Decal-Safety, ROPS
5	2412-133	2	Clamp-R
6	3256-23	2	Washer-Plain
7	32144-70	2	Screw-HWHTF
8	117-3176	4	Screw-HHF
9	32128-49	12	Nut-HHF
10	104-7050	1	Tube-Manual
11	104-7048	1	Cap-Housing
12	3234-38	8	Screw-HHF
13	115-3417-0P	1	Bracket-Bulkhead, Scissor
14	32144-15	2	Screw-HHFTF

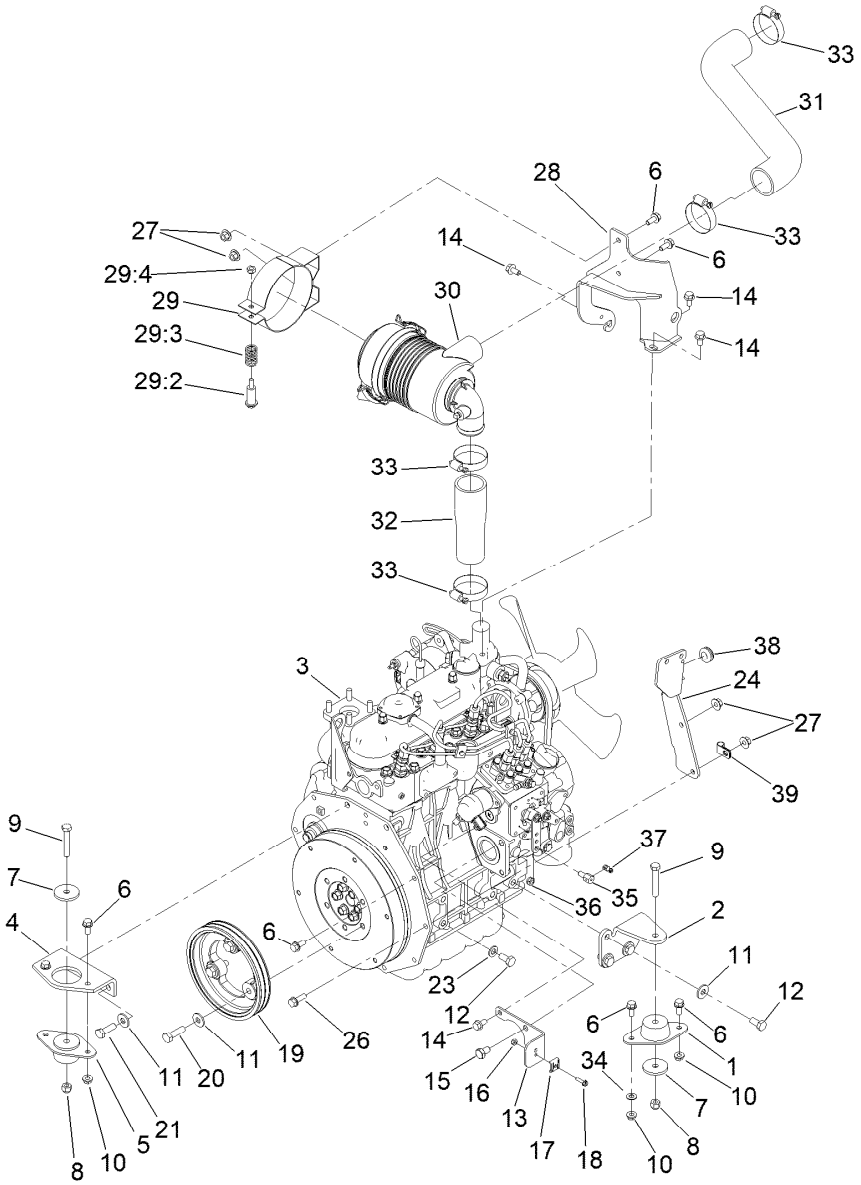
Ref.	Part Number	Qty.	Description
15	99-3430-0P	1	Bottom - Toolbox *b
16	99-3431-0P	1	End - Toolbox, RH *b
17	99-3432-0P	1	End - Toolbox, LH *b
18	32144-10	9	Screw-HWH
19	3234-13	4	Screw-HHF
20	32128-33	10	Nut-HF
21	3229-11	2	Screw-CARR
23	3234-5	2	Screw-HHF
25	121-7921	1	Hinge
26	163-2628	1	Toolbox Cover ASM
26:1	121-3623	1	Decal-Danger
27	119-6906	4	Screw-HSBH
29	136-3716	1	Decal-Service
32	161-8355	1	Cup Holder ASM
33	32144-1	2	Screw-Taptite
35	95-8684	1	Pad-Bumper
36	3289-4	2	Screw-FH
37	104-7201	2	Nut-HF, NI
41	147-6069	1	Decal-Reel Speed



Battery Tray and Cover Assembly

Ref.	Part Number	Qty.	Description
1	32144-15	1	Screw-HHFTF
2	3234-1	3	Screw-HHF
3	32128-43	3	Nut-Flange
5	163-3526	1	Tray-Battery
7	95-8817-01	1	Cover-Battery, Inner
10	94-1410	1	Holder-Can, Beverage
11	99-3602	1	Battery Cover ASM
11:2	93-7276	1	Decal-Danger
11:3	87-7620	1	Shield-Terminal, Battery
11:4	3269-27	4	Rivet-Snap

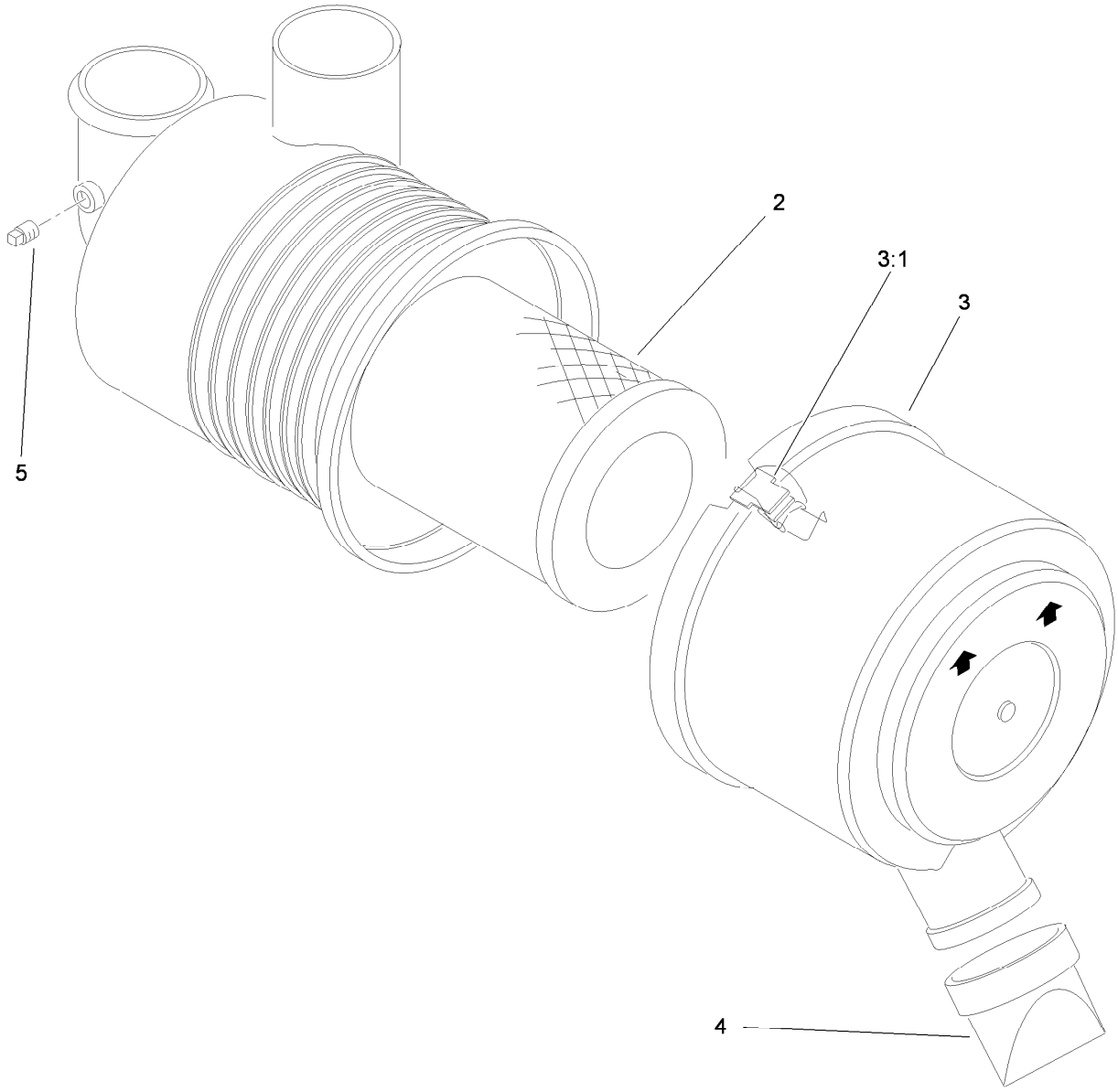
Ref.	Part Number	Qty.	Description
12	233-70	2	Knob-Star, Three
13	32144-4	2	Screw-HWH
14	32148-6	2	Nut-Clinch
15	163-3537-0P	1	Support-Battery
16	163-3516	1	Post-Clamp, Battery
17	137-8106	1	Screw-CARR
18	163-3515-0P	1	Channel-Clamp, Battery
19	3256-23	2	Washer-Plain
20	32103-22	2	Nut-Wing
21	32115-15	1	Nut-Push



Engine and Air Cleaner Assembly

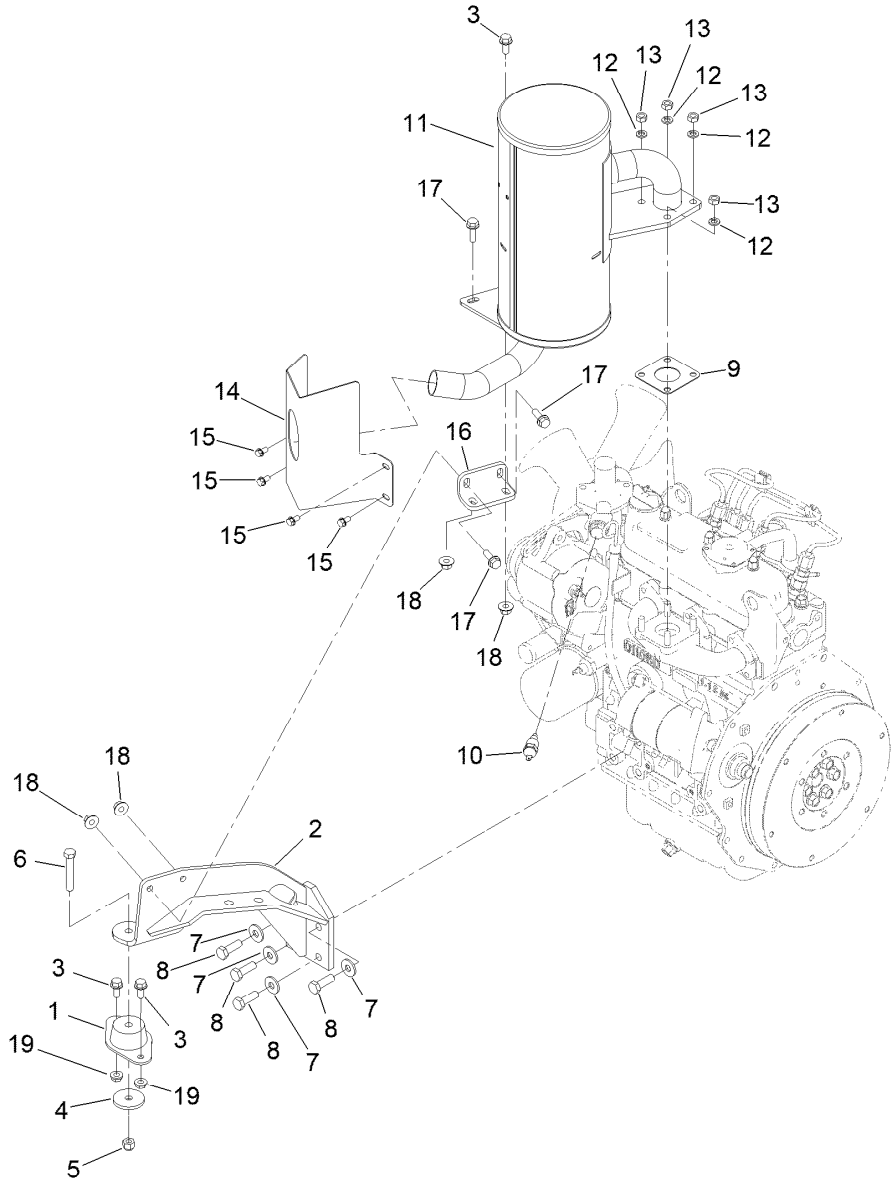
Ref.	Part Number	Qty.	Description
1	121-9076	1	Mount-Engine
2	95-8937-0P	1	Mount-Engine, LH
3	138-6905	1	Engine-Kubota, D1105
4	95-8926-0P	1	Mount - Engine, Front
5	93-5265	1	Mount-Engine
6	3234-5	5	Screw-HHF
7	80-8560	2	Washer-Hardened
8	3296-39	2	Nut-Lock, NI
9	323-11	2	Screw-HH
10	32128-20	4	Nut-HF
11	80-6990	7	Washer-Hardened
12	63-7790	4	Screw-Cap
13	110-9009-0P	1	Bracket-Cable, Throttle
14	33104-016	4	Screw-HHF
15	70-8470	1	Screw-HH
16	3296-2	1	Nut-Lock, NI
17	81-1690	1	Clamp-Cable
18	32105-13	1	Screw-HWH
19	99-3412	1	Pulley
20	56-2140	3	Screw-HH
21	95-8812	1	Screw-HH

Ref.	Part Number	Qty.	Description
23	33095-00	1	Washer-Flat
24	115-3487-0P	1	Bracket-Mount, Fuel Filter
26	3234-17	3	Screw-HHF
27	32128-44	4	Nut
28	136-3154-0P	1	Bracket-Cleaner, Air
29	93-2191	1	Air Cleaner Mounting Band ASM
29:2	94-3653	1	Bolt
29:3	94-3654	1	Spring
29:4	33024-00	1	Nut-Lock, NI
30	93-2190	1	Air Cleaner ASM
31	95-8946	1	Hose-Upper, Air Inlet
32	95-8947	1	Hose-Air Inlet, Lower
33	2412-92	4	Clamp-Hose
34	120-9683	1	Washer-Plain
35	98-9311	1	Swivel-Throttle
36	3296-20	1	Nut-Lock, NI
37	112-9919	1	Stop-Cable, Throttle
38	1-543296	1	Grommet
39	2412-138	1	R-Clamp



Air Cleaner Assembly No. 93-2190

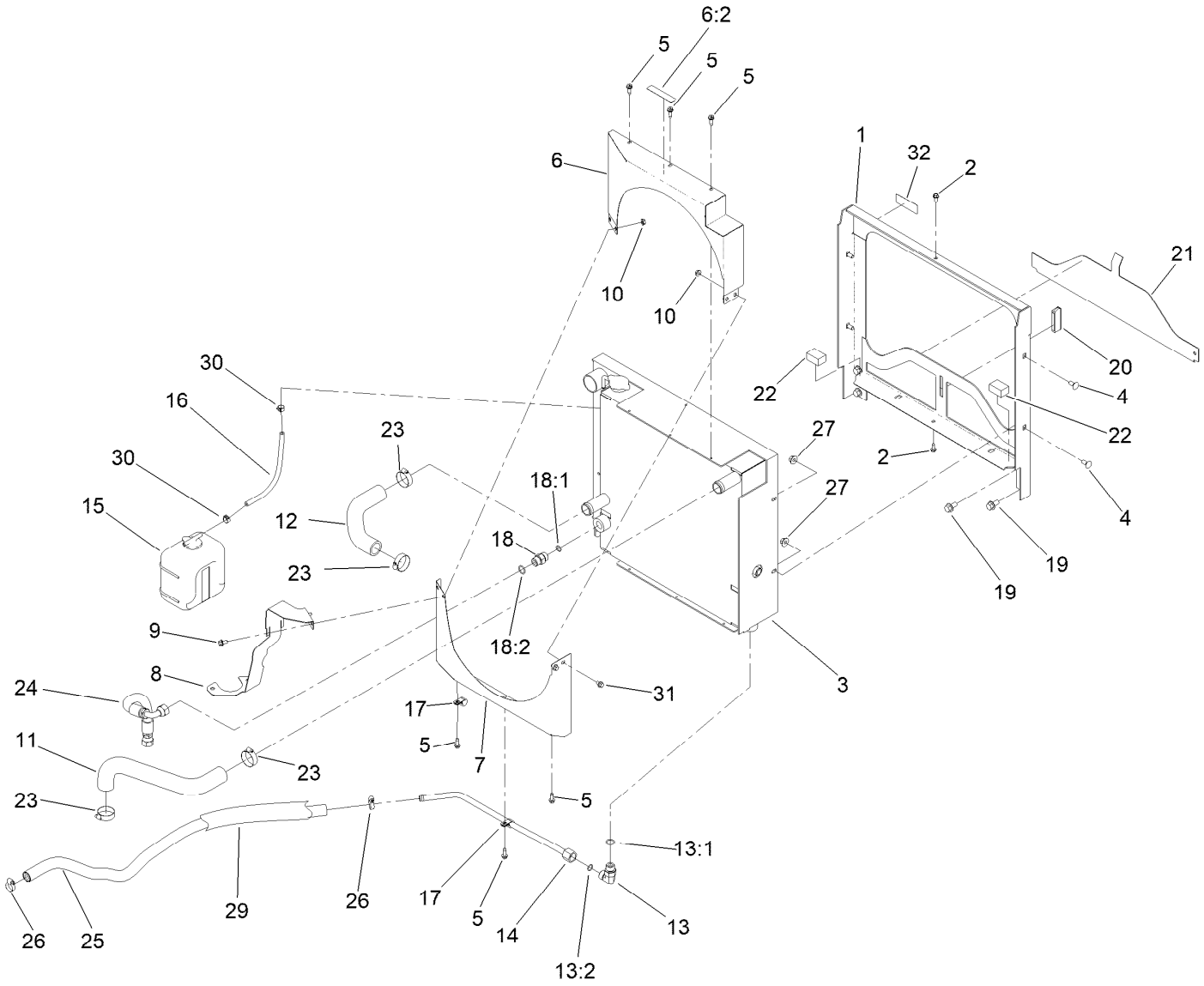
Ref.	*Part Number*	*Qty.*	*Description*
2	108-3811	1	Filter-Air V-Twin HD
3	94-3652	1	Cover ASM
3:1	1-643283	2	Latch-Cleaner, Air
4	87-9400	1	Valve-Vacuator
5	285-17	1	Plug-Pipe



Muffler, Muffler Guard and Engine Mount Assembly

Ref.	Part Number	Qty.	Description
1	121-9076	1	Mount-Engine
2	100-4838-0P	1	Mount-Engine
3	3234-5	3	Screw-HHF
4	80-8560	1	Washer-Hardened
5	3296-39	1	Nut-Lock, NI
6	323-11	1	Screw-HH
7	80-6990	4	Washer-Hardened
8	95-8812	4	Screw-HH
9	98-9611	1	Gasket
10	106-7772	1	Thermoswitch

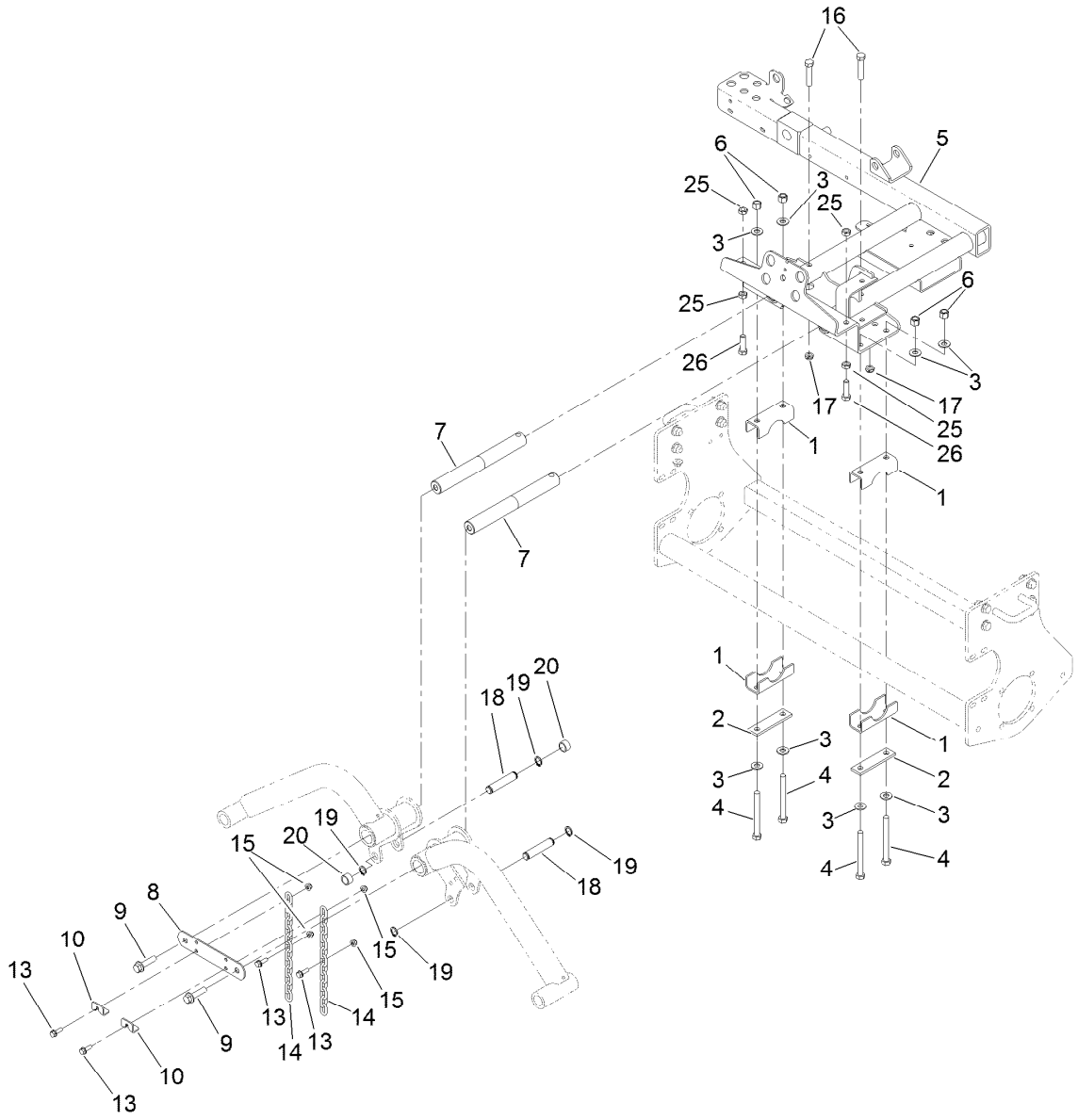
Ref.	Part Number	Qty.	Description
11	139-6013	1	Muffler
12	3253-4	4	Washer-Lock
13	33014-00	4	Nut-Hex
14	140-7428-03	1	Guard-Exhaust
15	32144-4	4	Screw-HWH
16	95-8943-0P	1	Bracket-Muffler
17	3234-17	3	Screw-HHF
18	32128-44	4	Nut
19	32128-20	2	Nut-HF



Radiator Assembly

Ref.	Part Number	Qty.	Description
1	100-4903-0P	1	Radiator Frame ASM
2	119-2038	2	Screw-HWH
3	120-3392	1	Radiator/Oil Cooler
4	3230-1	4	Bolt-CARR
5	32104-95	6	Screw-HWH
6	121-3584	1	Shroud-Fan, Top
6:2	93-6681	1	Decal-Warning, Fan
7	121-6254-0P	1	Shroud-Fan, Bottom
8	121-3604-0P	1	Bracket-Mounting, Reservoir
9	3234-13	2	Screw-HHF
10	32128-33	4	Nut-HF
11	121-3571	1	Hose-Radiator,Upper
12	119-6748	1	Hose-Radiator, Lower
13	340-98	1	Fitting-Elbow, 90 DEG
13:1	237-79	1	O-Ring
13:2	237-30	1	O-Ring
14	147-6083	1	Hydraulic Tube ASM
15	108-0638	1	Bottle-Overflow

Ref.	Part Number	Qty.	Description
16	110-4105	1	Hose-Fuel
17	2412-73	2	Clamp-R
18	340-4	1	Fitting-Straight
18:1	237-30	1	O-Ring
18:2	237-79	1	O-Ring
19	3234-1	4	Screw-HHF
20	99-3497	1	Magnet
21	95-8702-0P	1	Shield-Radiator, Lower
22	95-8962	2	Seal-Foam, Radiator
23	2412-34	4	Clamp-Hose
24	104-2806	1	Hose-HYD
25	93-6804	1	Hose
26	2412-36	2	Clamp-Hose
27	3296-29	4	Nut-Lock, NI
29	56-7985	1	Sleeve-Protective
30	92-2379	2	Clamp-Hose
31	3234-26	2	Screw-HHF
32	125-6688	1	Decal-Danger, Starter Fluid

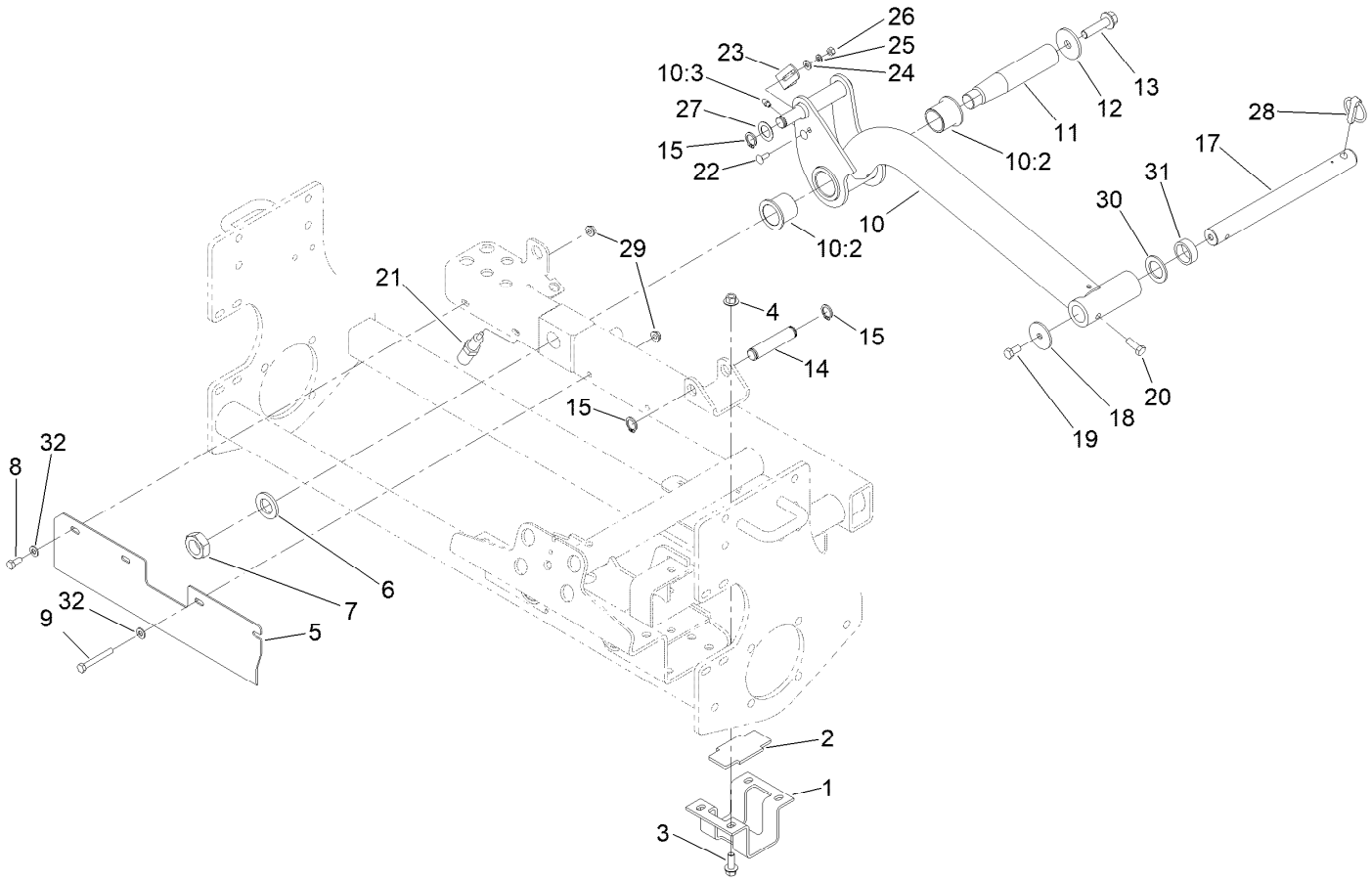


Lift Arm Mount Assembly

Ref.	Part Number	Qty.	Description
1	95-8884	4	Clamp
2	99-3373	2	Bar-Support, Slide
3	87-7270	8	Washer-Thrust
4	325-19	4	Screw-HH
5	100-4930-03	1	Carrier ASM
6	3296-23	4	Nut-Lock, NI
7	95-8531	2	Shaft-Pivot, Liftarm
8	95-8532-03	1	Link-Shaft, Pivot
9	3234-27	2	Screw-HHF
10	99-3550	2	Clip-Link
13	3234-17	4	Screw-HHF

Ref.	Part Number	Qty.	Description
14	98-7981	2	Chain-Link, Straight
15	104-8300	4	Nut-HF, NI
16	325-10	2	Screw-HH
17	3296-45	2	Nut-Hex
18	95-8575	2	Pin-Clevis
19	32120-93	4	Ring-Retaining
20	75-9590	2	Spacer-Cylinder
25	3218-5	4	Nut-Jam
26	325-7	2	Screw-HH
27	3290-378	1	Tie-Cable ●

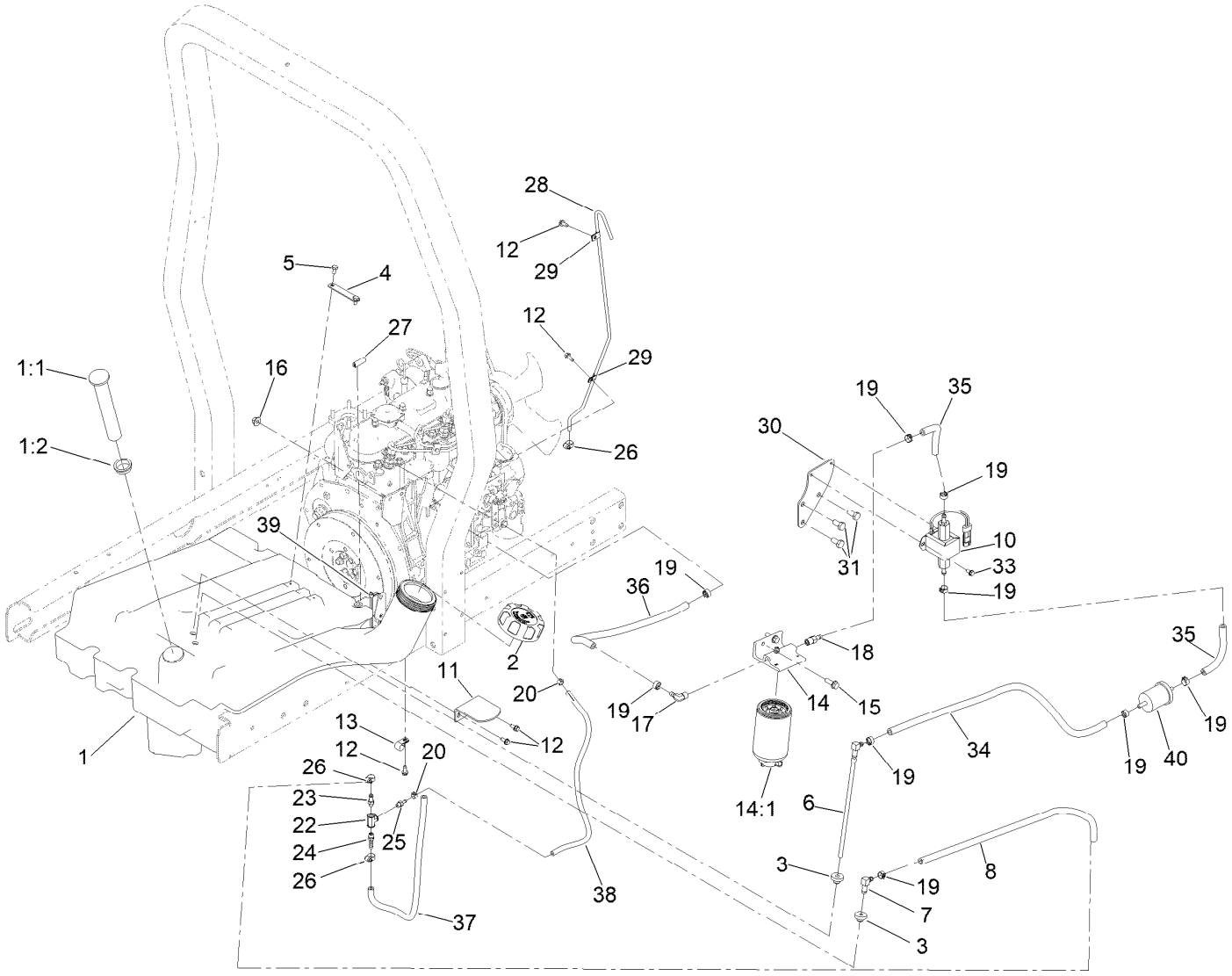
● Not illustrated



Rear Lift Arm Assembly

Ref.	Part Number	Qty.	Description
1	95-8904-0P	1	Bracket
2	95-8538	1	Slide-Plastic
3	3234-11	4	Screw-HHF
4	32128-43	4	Nut-Flange
5	121-3616-03	1	Guard
6	86-1480	1	Washer
7	3220-9	1	Nut-Jam
8	322-5	2	Screw-HH
9	322-12	2	Screw-HH
10	136-3425	1	Rear Liftarm ASM-Rm310X
10:2	69-6470	2	Bushing-Caster
10:3	302-5	1	Fitting-Grease
11	95-8990	1	Shaft-Pivot, Rear
12	75-7730	1	Washer-Thrust
13	3234-27	1	Screw-HHF
14	95-8575	1	Pin-Clevis
15	32120-93	3	Ring-Retaining

Ref.	Part Number	Qty.	Description
17	104-1392	1	Shaft-Pivot
18	63-7400	1	Washer-Rebound
19	323-4	1	Screw-HH
20	323-6	1	Screw-HH
21	93-6762	1	Switch-Ball
22	3229-1	2	Screw-CARR
23	95-8613	1	Bracket-Switch
24	3256-22	2	Washer-Flat
25	3253-3	2	Washer-Lock
26	3217-5	2	Nut-Hex
27	3-6498	1	Washer-Thrust
28	283-71	1	Pin-Lynch
29	32128-20	4	Nut-HF
30	3-6781	1	Washer-Flat
31	63-0070	1	Spacer
32	3256-23	4	Washer-Plain

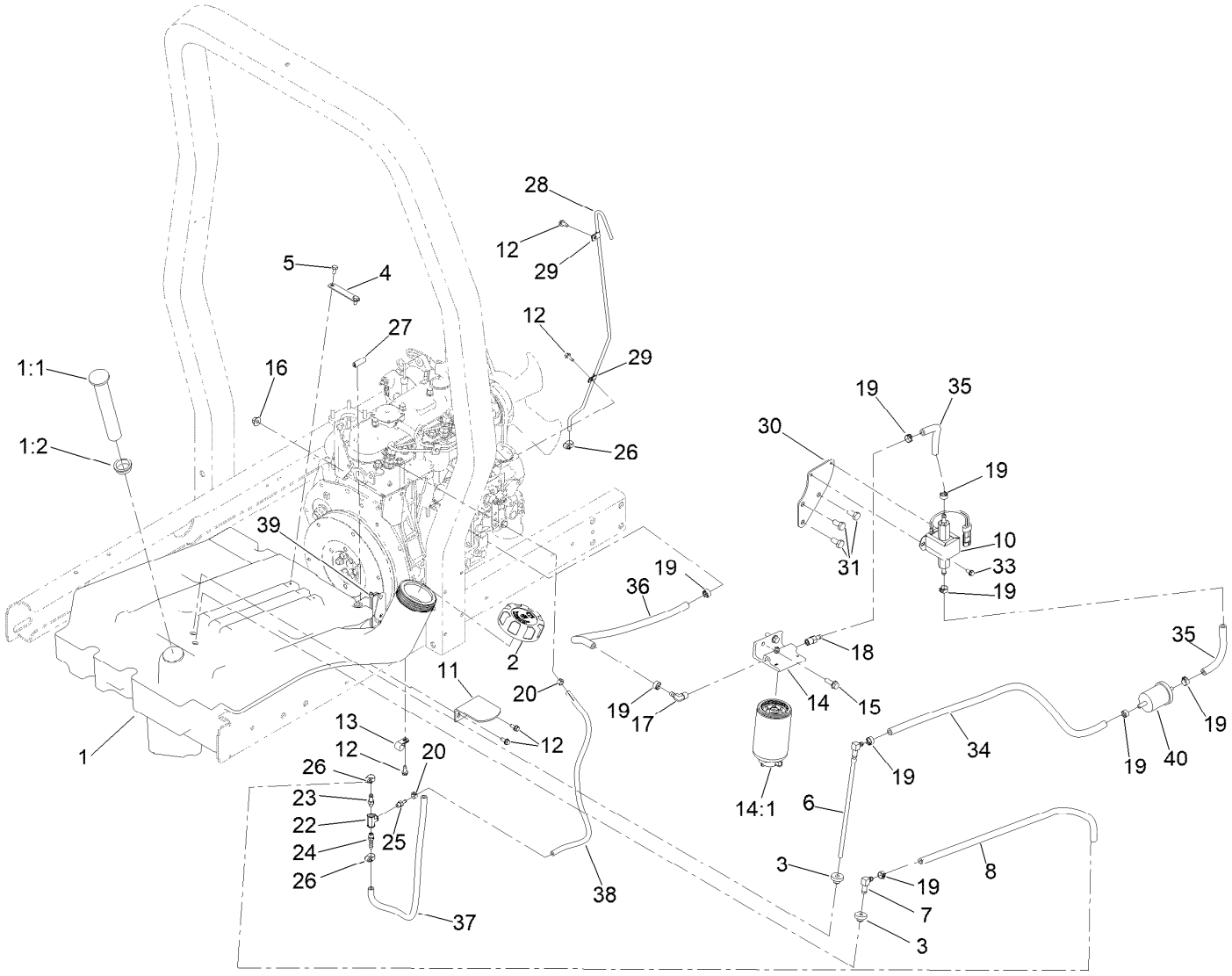


Fuel System Assembly

Ref.	Part Number	Qty.	Description
1	95-8620	1	Tank-Fuel
1:1	95-8971	1	Gauge-Fuel
1:2	95-8972	1	Grommet
2	125-9171	1	Cap-Fuel
3	46-6560	2	Bushing
4	95-8881	1	Strap-Line, Fuel
5	321-2	2	Screw-HH
6	110-9689	1	Pipe-Stand
7	46-6550	1	Fitting-Elbow, 90 DEG
8	110-6187	1	Hose-Fuel
10	145-3160	1	Pump-Fuel, Electric
11	95-8968-03	1	Support-Tank, Fuel
12	32144-10	5	Screw-HWH
13	2412-73	1	Clamp-R
14	110-9044	1	Separator-Filter
14:1	110-9049	1	Filter-Spin On, Fuel/Water
15	3234-17	2	Screw-HHF
16	32128-44	2	Nut

Ref.	Part Number	Qty.	Description
17	353-781	1	Fitting-HYD, 90
18	353-783	1	Fitting-STR
19	92-2379	9	Clamp-Hose
20	2412-80	2	Clamp-Hose
22	354-20	1	Fitting-Tee
23	354-21	1	Fitting-Barbed
24	304-73	1	Fitting-Straight
25	354-22	1	Fitting-Barbed
26	2412-108	3	Clamp-Worm
27	110-8754	1	Trim
28	95-8615	1	Tube-Breather
29	2412-72	2	Clip-Closed, Insulated
30	136-3818-0P	1	Plate-Fuel Pump
31	63-7790	3	Screw-Cap
33	32144-4	2	Screw-HWH
34	110-3257	1	Hose-Fuel
35	109-0310	2	Hose-Fuel
36	121-7852	1	Hose-Fuel

● Not illustrated

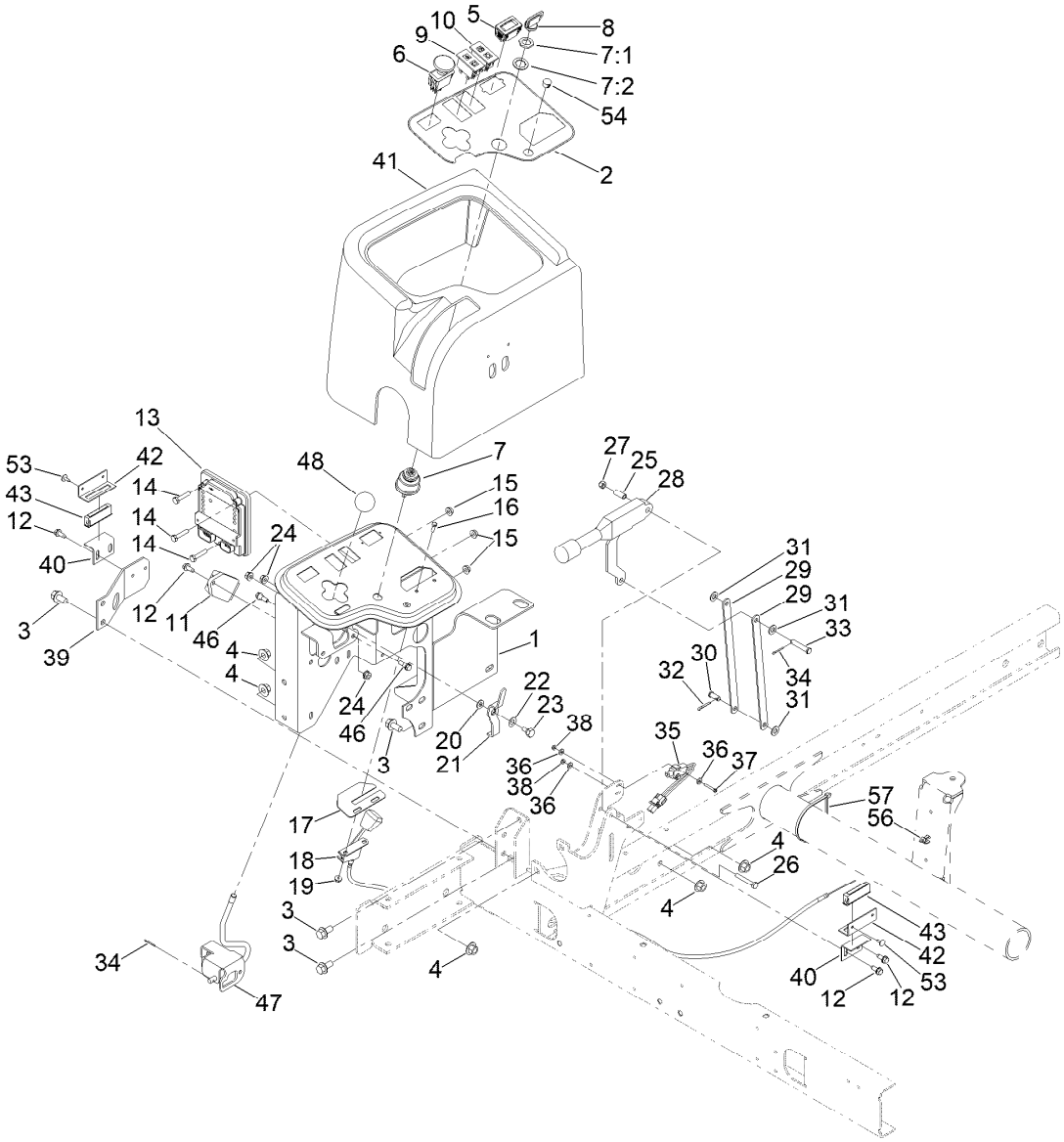


Fuel System Assembly (continued)

Ref.	Part Number	Qty.	Description
37	110-5701	1	Hose-Fuel
38	138-3151	1	Hose-Fuel
39	3290-379	1	Tie-Cable ●

Ref.	Part Number	Qty.	Description
40	98-7612	1	Filter-Fuel
42	3290-378	1	Tie-Cable ●

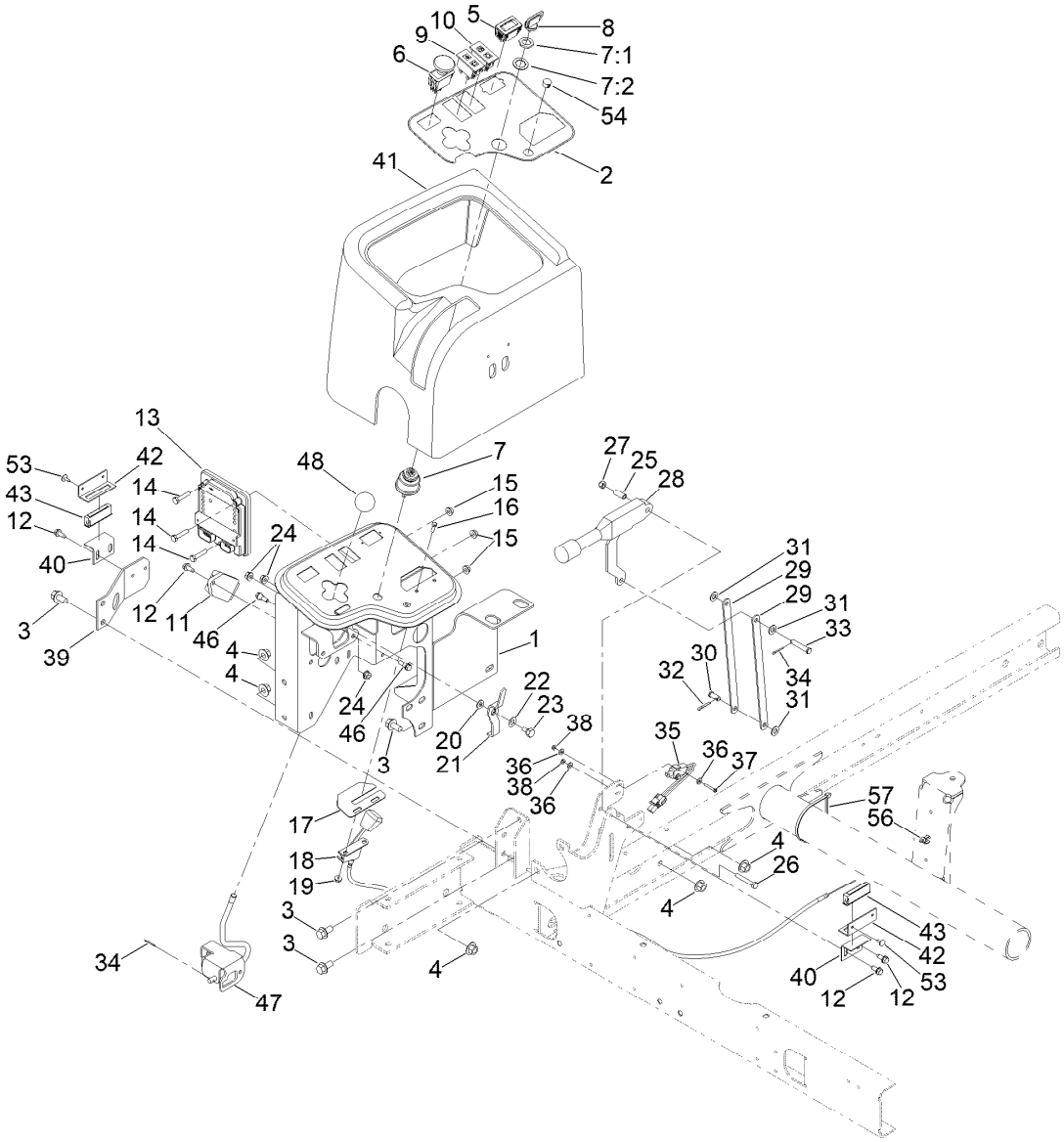
● Not illustrated



Control Panel Assembly

Ref.	Part Number	Qty.	Description
1	136-3681-03	1	Panel-Control
2	136-3678	1	Decal-Console
3	3234-1	7	Screw-HHF
4	32128-43	7	Nut-Flange
5	120-2244	1	Hourmeter
6	93-9999	1	Switch-PTO
7	104-2541	1	Ignition Switch ASM
7:1	218-461	1	Nut-HH
7:2	3254-5	1	Washer-Lock
8	63-8360	2	Key-Ignition
9	100-8070	1	Lamp-Warning
10	100-8071	1	Lamp-Warning
11	98-7611	1	Controller-Glow
12	32144-10	5	Screw-HWH
13	106-9277	1	Module-Control, Standard
14	321-8	3	Screw-HH
15	32128-33	3	Nut-HF
16	3290-134	2	Screw
17	104-0421	1	Plate-Stop, Throttle
18	138-1224	1	Cable-Throttle
19	3290-148	2	Nut-HF

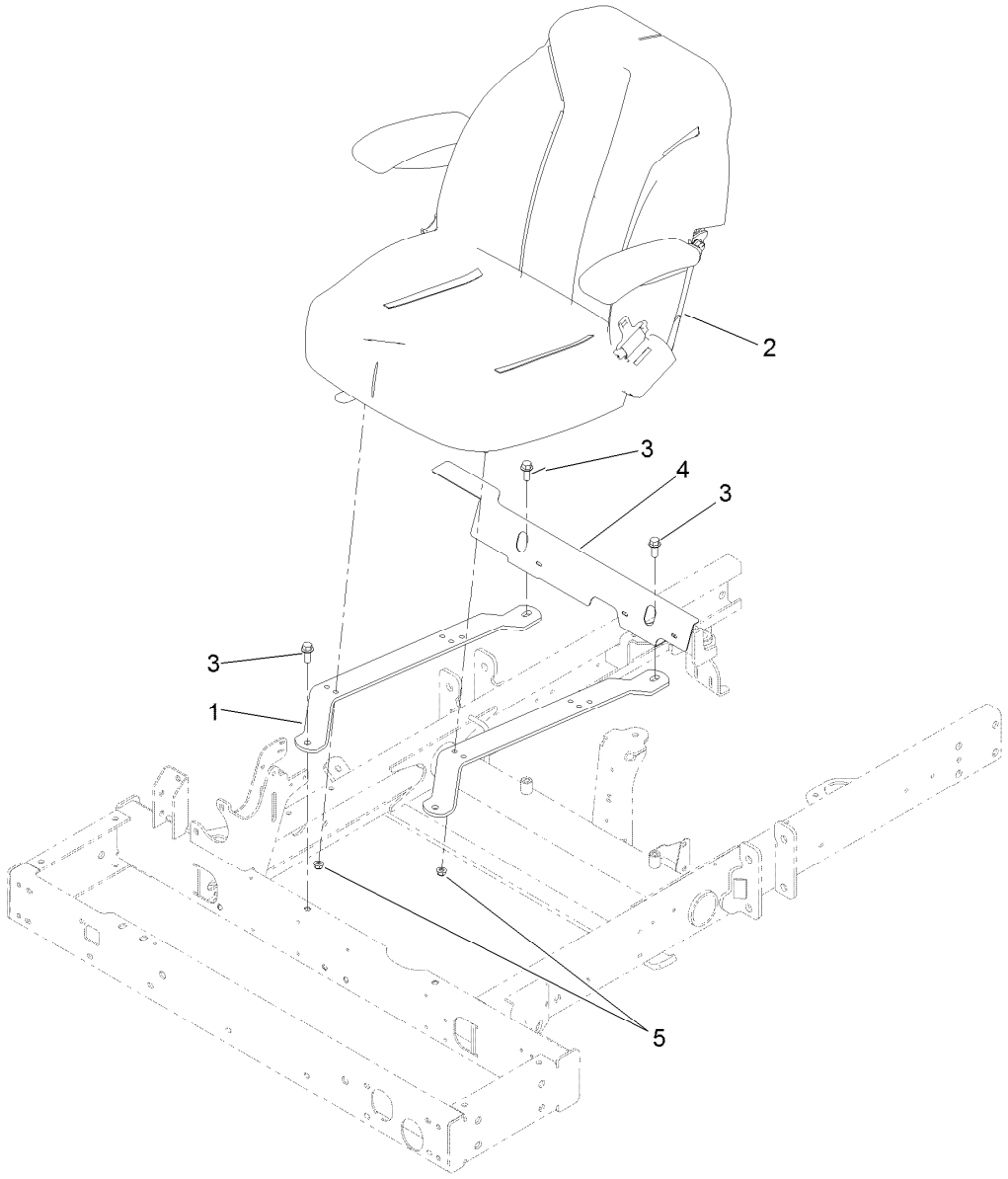
Ref.	Part Number	Qty.	Description
20	3256-22	1	Washer-Flat
21	99-3401	1	Lever-Lock
22	3290-477	1	Washer-Curved
23	63-3410	1	Screw-Shoulder
24	32128-32	3	Nut-HHF
25	87-4710	1	Spacer-Brake, Parking
26	321-10	1	Screw-HH
27	3296-42	1	Nut-Lock, NI
28	104-4817	1	Lever-Brake
29	104-4628	2	Link-Brake, Parking
30	283-62	1	Pin-Clevis
31	3256-23	3	Washer-Plain
32	3272-10	1	Pin-Cotter
33	94-3829	1	Pin-Clevis
34	3272-6	1	Pin-Cotter
35	95-8900	1	Switch
36	3256-21	4	Washer-Flat
37	32105-9	2	Screw-HH
38	3296-9	2	Nut-Hex
39	95-8764-0P	1	Support-Magnet
40	95-8765	2	Bracket-Strike, Magnet



Control Panel Assembly (continued)

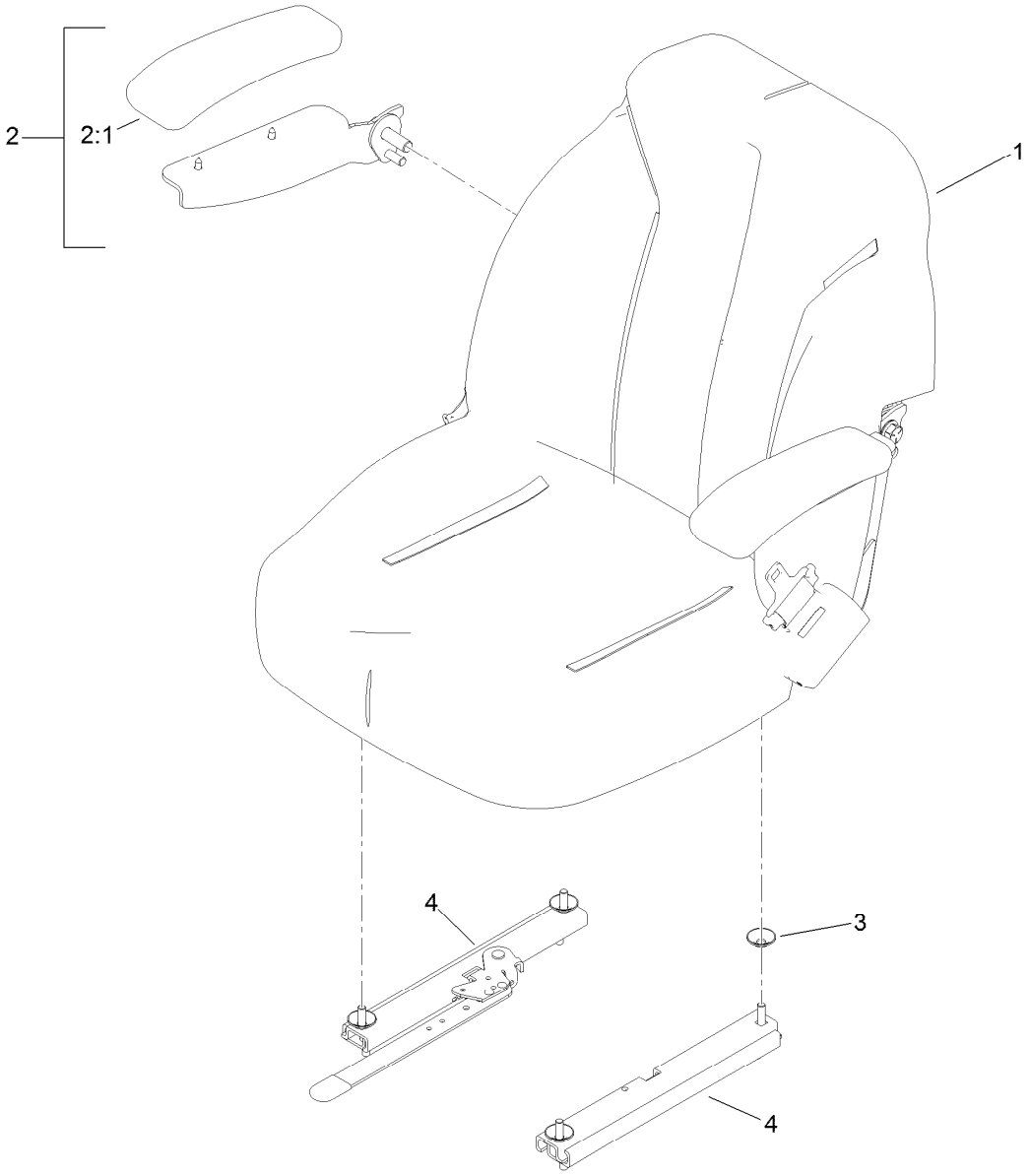
Ref.	Part Number	Qty.	Description
41	95-8707	1	Cover-Dash
42	95-8763	2	Bracket-Hold Down, Cover
43	58-4250	2	Catch-Magnetic
46	42-3560	2	Bolt-Shoulder
47	95-8692	1	Lever ASM

Ref.	Part Number	Qty.	Description
48	233-42	1	Knob
53	3269-5	4	Rivet-Pop
54	2410-64	1	Plug-Dome
56	3290-378	1	Tie-Cable
57	3290-379	1	Tie-Cable



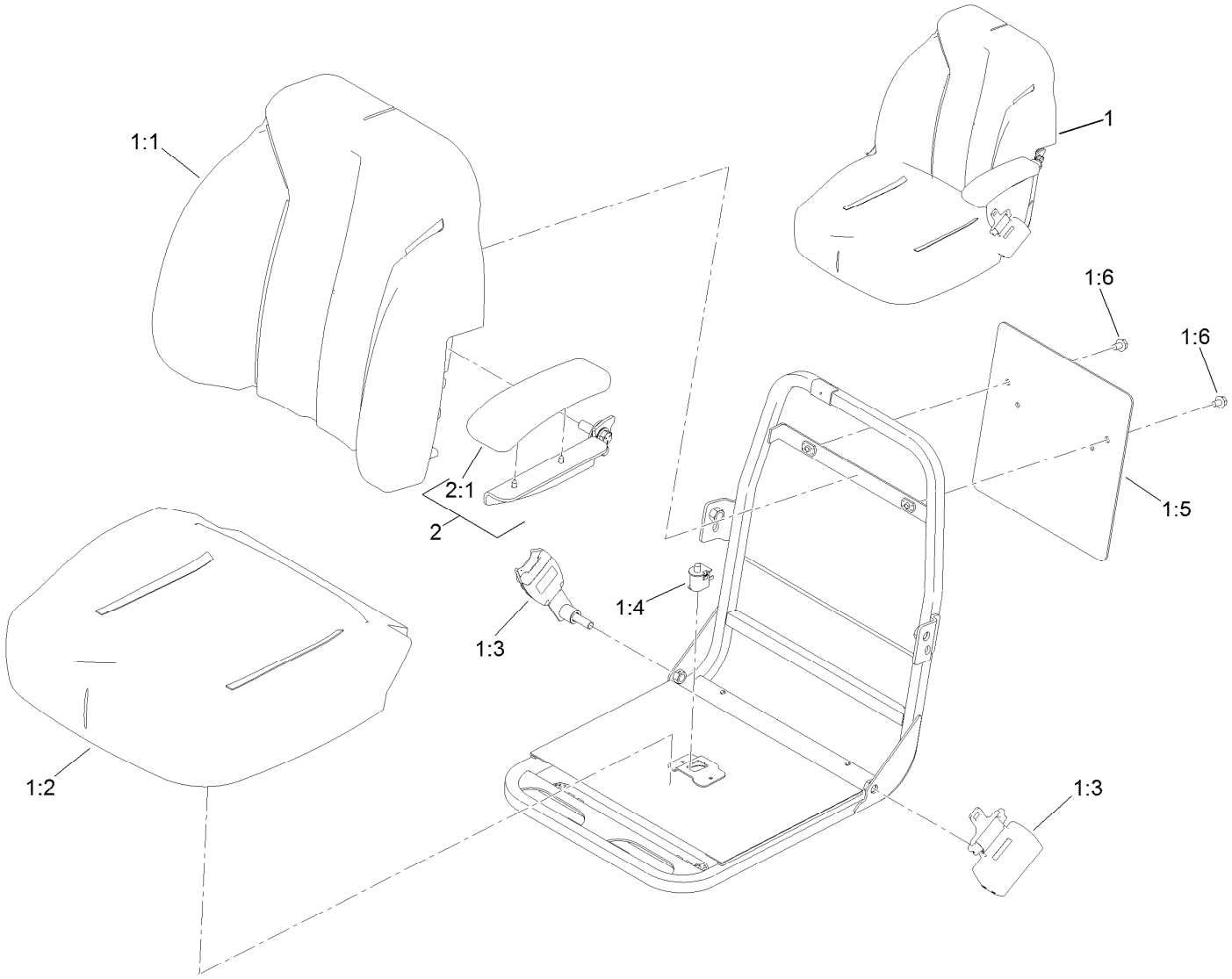
Seat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	121-3665-03	2	Strap-Support, Seat
2	139-2679	1	Seat And Track ASM
3	3234-11	4	Screw-HHF
4	104-4833-03	1	Shield-Heat
5	104-8300	4	Nut-HF, NI



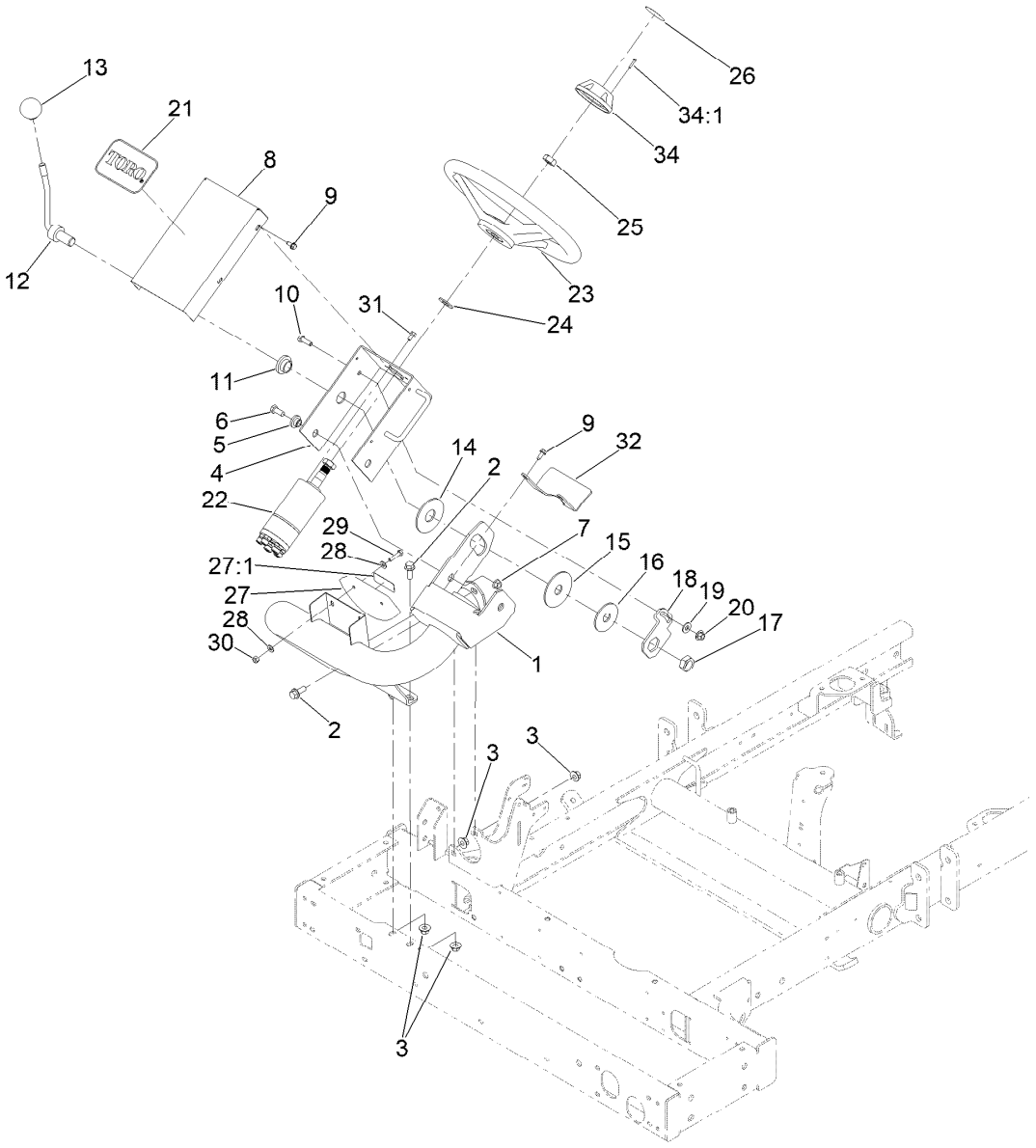
Seat and Track Assembly No. 139-2679

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



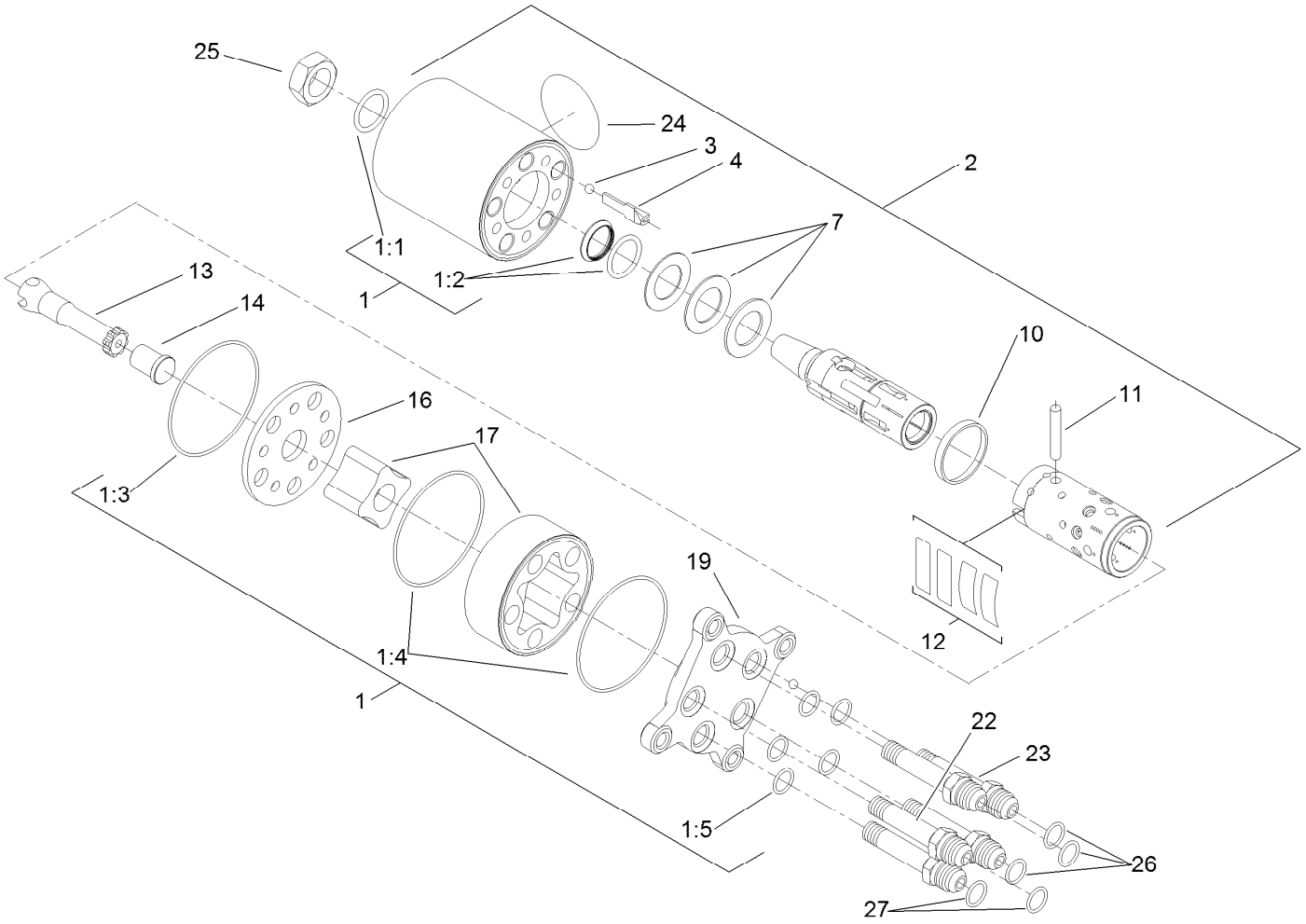
Seat Assembly No. 139-2700

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



Steering Column Assembly

Ref.	Part Number	Qty.	Description
1	105-8536-01	1	Arm-Steering
2	3234-11	4	Screw-HHF
3	32128-43	4	Nut-Flange
4	120-2190-01	1	Bracket-Valve
5	93-5988	2	Hub-Pivot
6	323-5	2	Screw-HH
7	32128-21	2	Nut-HF Lock
8	95-8794-01	1	Cover-Valve, Steering
9	32144-10	5	Screw-HWH
10	322-5	1	Screw-HH
11	99-3502	1	Boss
12	95-8798-03	1	Lever-Steering
13	233-48	1	Knob
14	31-0390	1	Disc-Friction
15	82-9010	1	Disc-Friction
16	80-2930	1	Washer-Flat
17	3218-7	1	Nut-Jam
18	80-2880	1	Bracket-Tilt
19	3256-3	1	Washer-Flat
20	32128-44	1	Nut
21	67-1300	1	Decal
22	121-7856	1	Steering Valve ASM
23	145-0051	1	Steering Wheel
24	3256-27	1	Washer-Flat
25	3296-33	1	Nut-Lock, NI
26	68-5370	1	Decal
27	100-4929	1	Slope Indicator ASM
27:1	121-3598	1	Decal-Danger, 17 Degree
28	3256-22	4	Washer-Flat
29	321-7	2	Screw-HH
30	3296-42	2	Nut-Lock, NI
31	33103-012	4	Screw-HHF
32	99-3405-01	1	Shield-Steering
34	68-5140	1	Cap-Wheel, Steering
34:1	32144-21	1	Screw

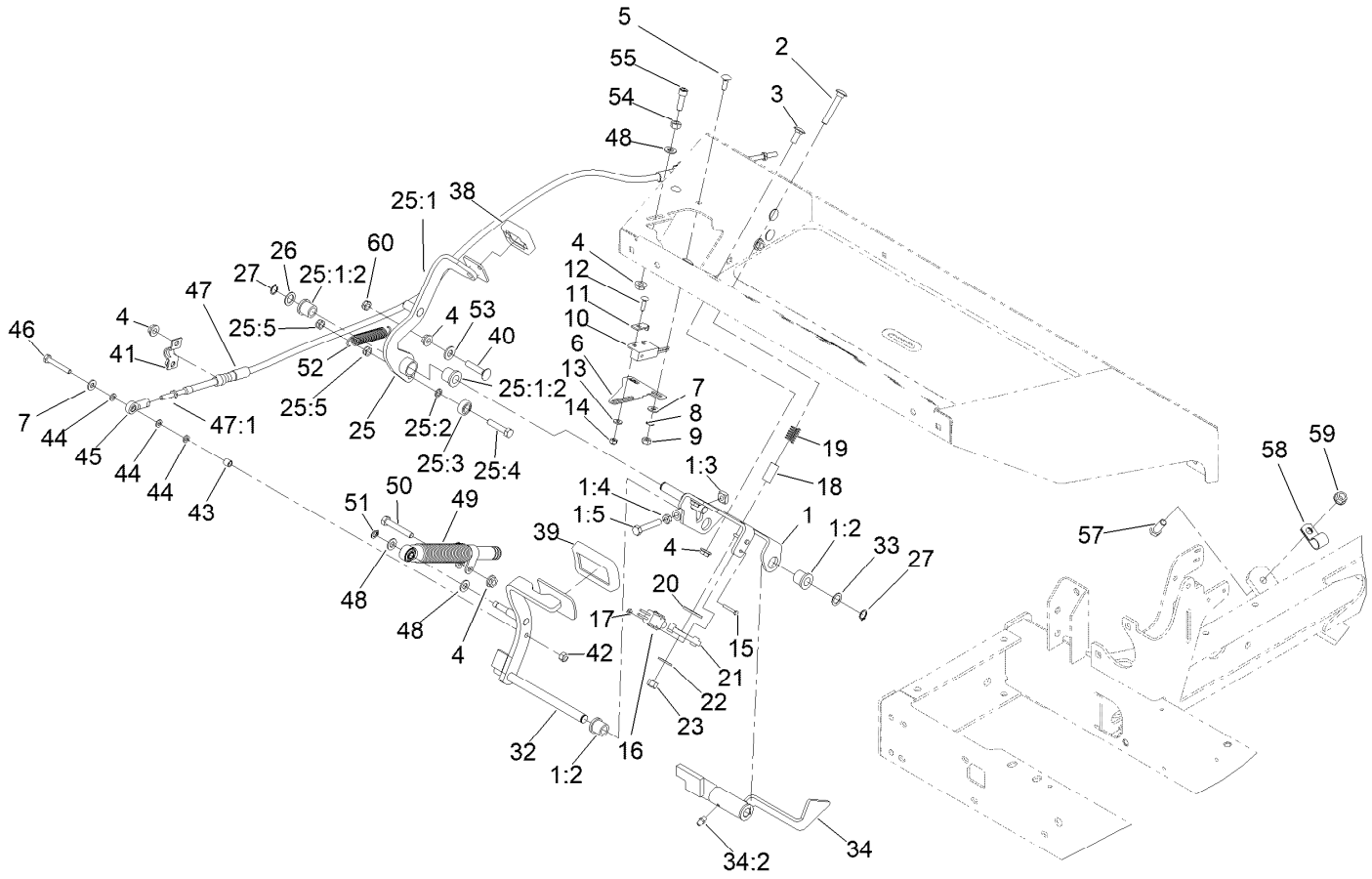


Steering Valve Assembly No. 121-7856

Ref.	Part Number	Qty.	Description
1	106-6716	1	Seal Kit
1:1		1	Ring-Seal, Dust ●
1:2		1	Seal-Shaft ●
1:3		1	O-Ring ●
1:4		2	O-Ring ●
1:5		5	O-Ring ●
2		1	Housing ●
3		1	Ball ●
4		1	Stop-Ball ●
7		1	Bearing ASM ●
10		1	Ring ●
11		1	Pin-Cross ●

Ref.	Part Number	Qty.	Description
12		1	Springs ●
13		1	Shaft ●
14		1	Spacer ●
16		1	Plate-Distributor ●
17		1	Gearwheel Set ●
19		1	Cover-End ●
22		1	Screw-Special ●
23		4	Screw-Special ●
24		1	Plate-Name ●
25	3296-33	1	Nut-Lock, NI
26	237-22	3	O-Ring
27	237-21	2	O-Ring

● Not serviced separately

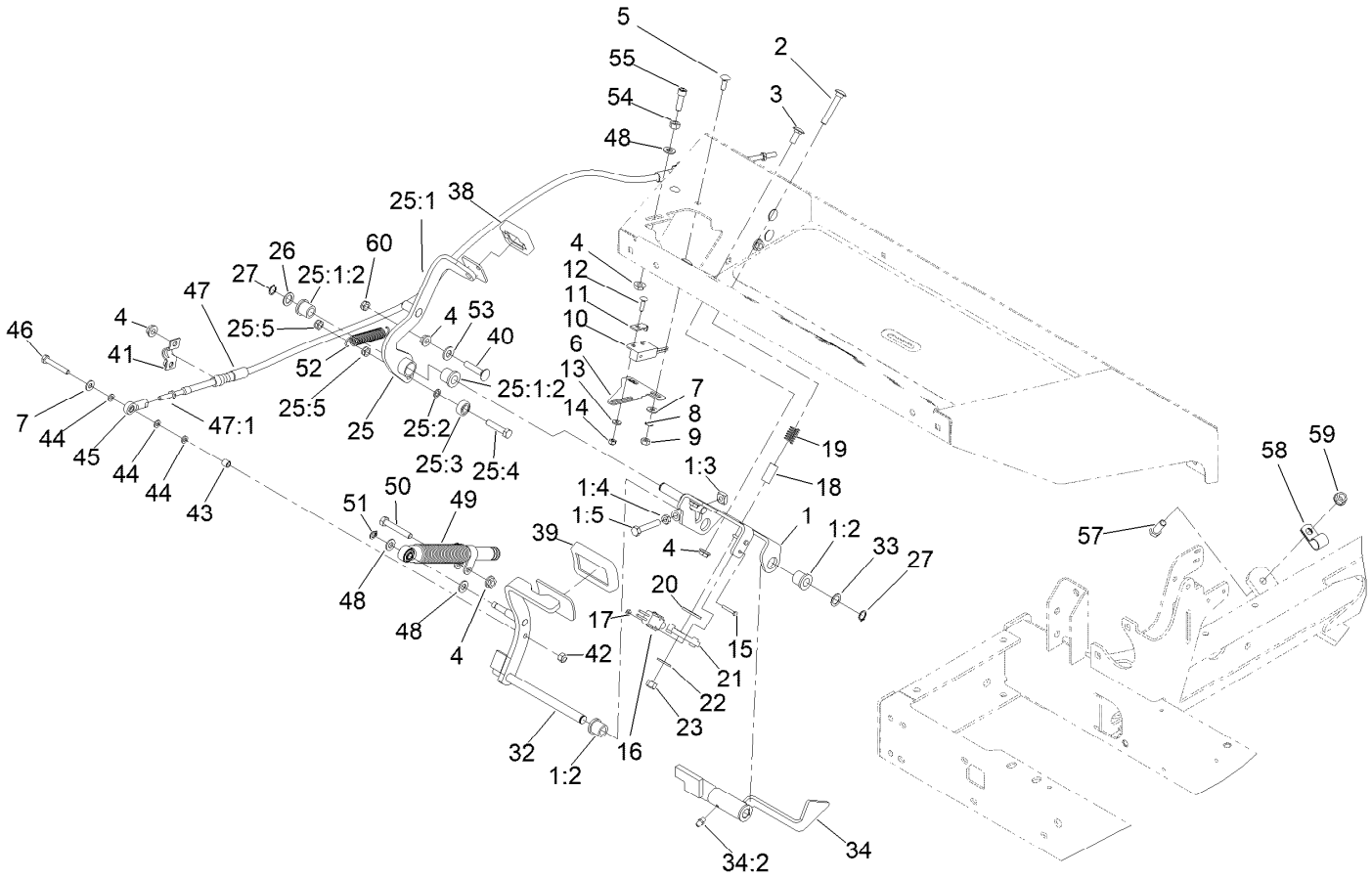


Pedal Assembly

Ref.	Part Number	Qty.	Description
1	140-6253	1	Traction Bracket ASM
1:2	256-243	2	Bearing-Flange
1:3	99-3565	1	Nut-Square
1:4	3218-2	1	Nut-Hex Jam
1:5	322-41	1	Bolt-Hex,TAP
2	3230-6	1	Bolt-CARR
3	137-3061	4	Bolt-CARR
4	32128-20	8	Nut-HF
5	3229-1	2	Screw-CARR
6	100-4871	1	Bracket-Switch, Neutral
7	3256-22	3	Washer-Flat
8	3255-7	2	Washer-Lock/EXT
9	3217-5	2	Nut-Hex
10	100-1270	1	Switch-Proximity
11	100-4872	1	Plate-Switch, Neutral
12	3229-20	1	Screw-CARR
13	3256-14	1	Washer-Flat
14	3296-2	1	Nut-Lock, NI

Ref.	Part Number	Qty.	Description
15	32105-9	2	Screw-HH
16	95-8900	1	Switch
17	3296-9	2	Nut-Hex
18	95-8866	1	Tube-Arm, Rocker
19	65-9940	1	Spring
20	87-7270	1	Washer-Thrust
21	99-3593	1	Arm-Rocker
22	3256-3	1	Washer-Flat
23	3296-29	1	Nut-Lock, NI
25	140-6251	1	Reverse Pedal ASM
25:1		1	Reverse Pedal ASM W/Bushings ●
25:1:2	256-243	2	Bearing-Flange
25:2	75-5470	1	Spacer-Bearing
25:3	251-259	1	Bearing-Ball
25:4	322-7	1	Screw-HH
25:5	3296-47	2	Nut-Lock,NI
26	41-8440	1	Washer

● Not serviced separately

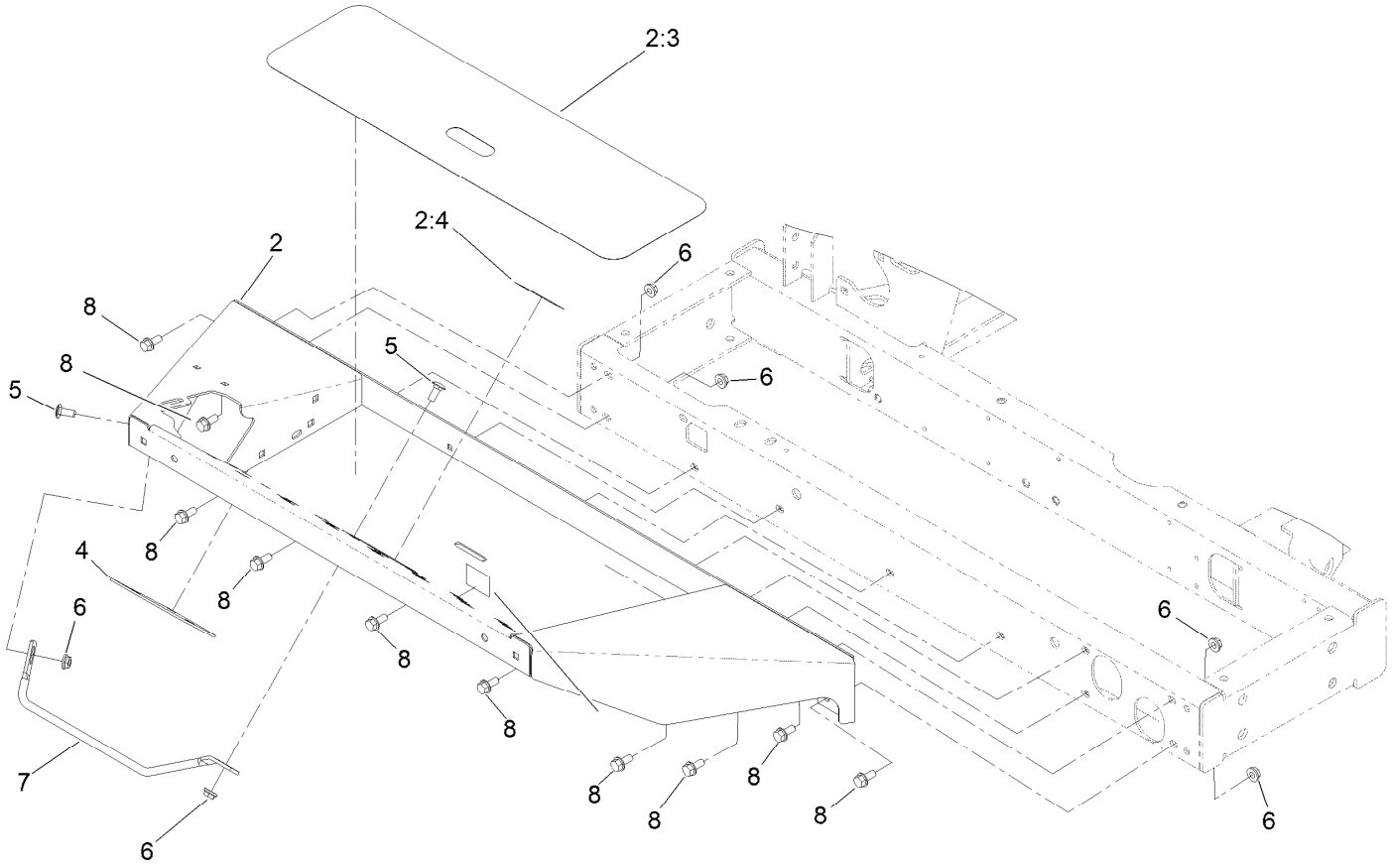


Pedal Assembly (continued)

Ref.	Part Number	Qty.	Description
27	32151-84	2	Ring-Shaft, EXT
32	140-6263	1	Traction Pedal ASM
33	73-0040	1	Washer-Thrust
34	140-6255	1	Detent Slider ASM
34:2	302-5	1	Fitting-Grease
38	74-9110	1	Pad-Pedal, Reverse
39	74-9100	1	Pad-Pedal, Forward
40	3230-27	1	Screw-CARR
41	93-2092	1	Clamp-Cable
42	3296-42	1	Nut-Lock, NI
43	99-3545	1	Spacer
44	33093-00	3	Washer-Flat
45	2411-41	1	Rod End-Ball Joint
46	321-10	1	Screw-HH

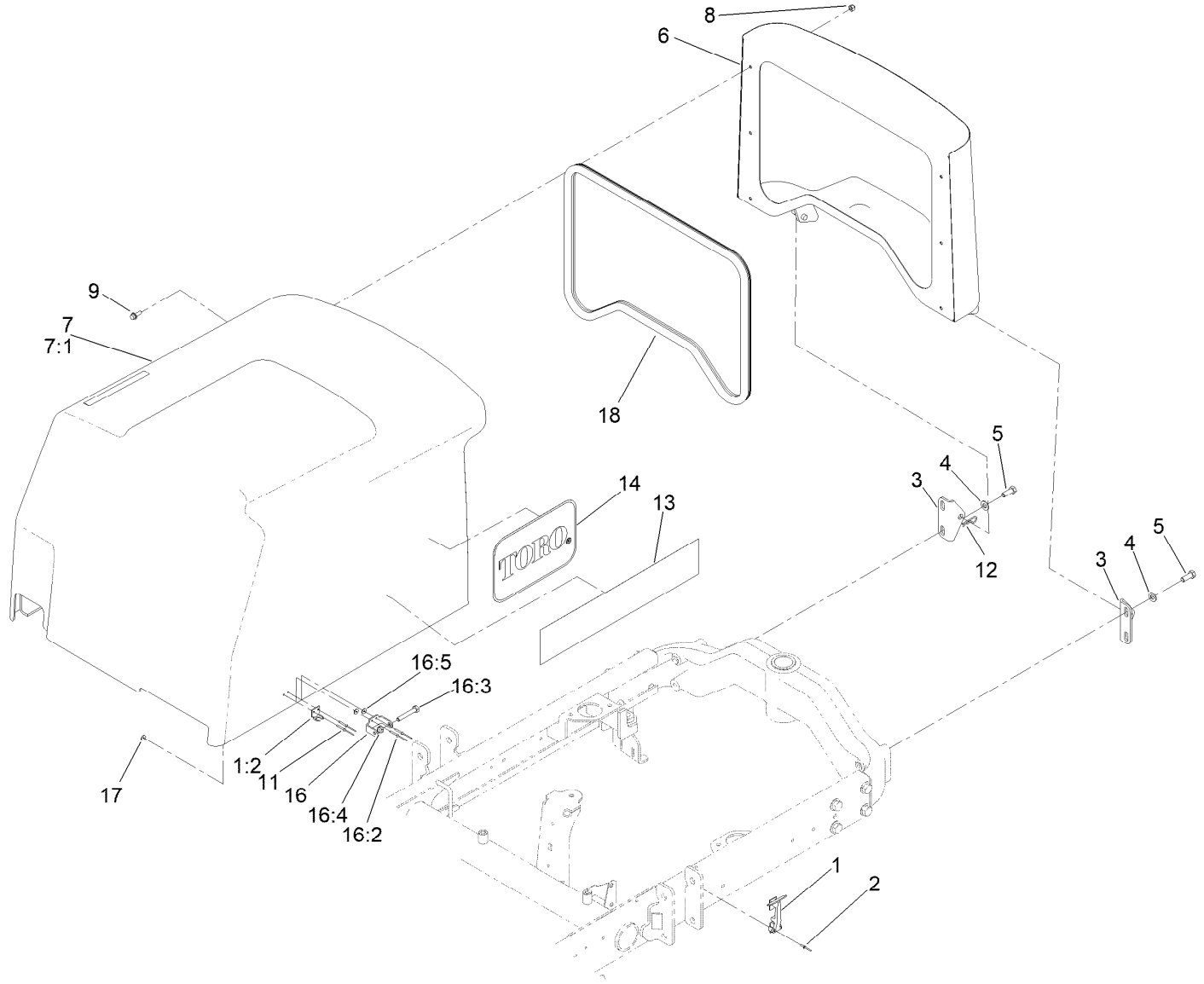
Ref.	Part Number	Qty.	Description
47	100-4815	1	Cable-Control, Traction
47:1	3220-1	2	Nut-Jam
48	3256-23	3	Washer-Plain
49	140-6248	1	Damper
50	322-10	1	Screw-HH
51	32151-3	1	Ring-Grip
52	99-3476	1	Spring-Extension
53	3256-24	1	Washer-Plain
54	3217-6	1	Nut-Hex
55	3274-22	1	Screw-HSH
57	323-6	1	Screw-HH
58	2412-41	1	Clamp-R
59	3290-357	1	Nut-HSF
60	3296-47	1	Nut-Lock,NI

● Not serviced separately



Footplate Assembly

Ref.	*Part Number*	*Qty.*	*Description*
2	106-4154	1	Floorplate ASM
2:3	99-3478	1	Tread-Foot
2:4	99-3444	1	Decal-Mow / Transport
4	106-2661-0P	1	Plate-Support
5	137-3061	2	Bolt-CARR
6	32128-20	12	Nut-HF
7	95-8893	1	Bar-Deflector
8	3234-5	10	Screw-HHF



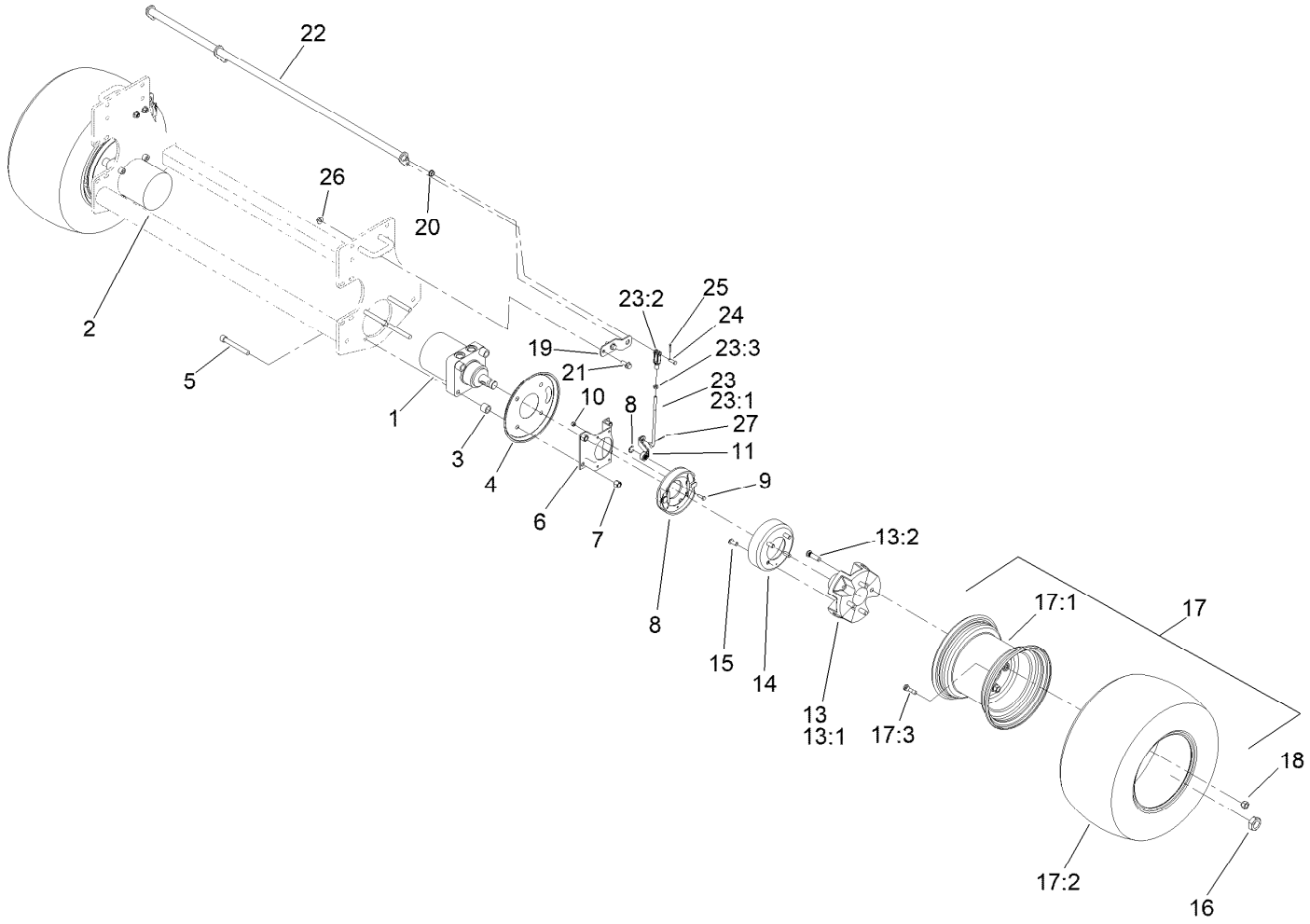
Hood Assembly

Ref.	Part Number	Qty.	Description
1	59-9740	2	Flex Draw Latch ASM
1:2	249-40	1	Keeper
2	3290-55	4	Rivet-Pop
3	95-8728	2	Bracket-Pivot, Hood
4	3256-24	4	Washer-Plain
5	323-6	4	Screw-HH
6	95-8724-03	1	Screen-Hood
7	121-3633	1	Hood ASM
7:1		1	Hood ■
7:1:1	106-8114	1	Heat Tape Repair Kit ●
8	3296-42	6	Nut-Lock, NI
9	3234-4	6	Screw-HHF

Ref.	Part Number	Qty.	Description
11	107-0333	4	Rivet-Pop
12	3290-467	1	Pin-Hair
13	104-5153	2	Decal-Hood
14	66-6140	2	Decal
16	119-2004	1	CE Latch Kit
16:2	107-0333	2	Rivet-Pop
16:3	322-10	1	Screw-HH
16:4	3296-47	1	Nut-Lock,NI
16:5	3269-10	2	Washer-Back
17	3269-10	4	Washer-Back
18	95-8809	1	Trim-Seal

● Not illustrated

■ Not serviced separately

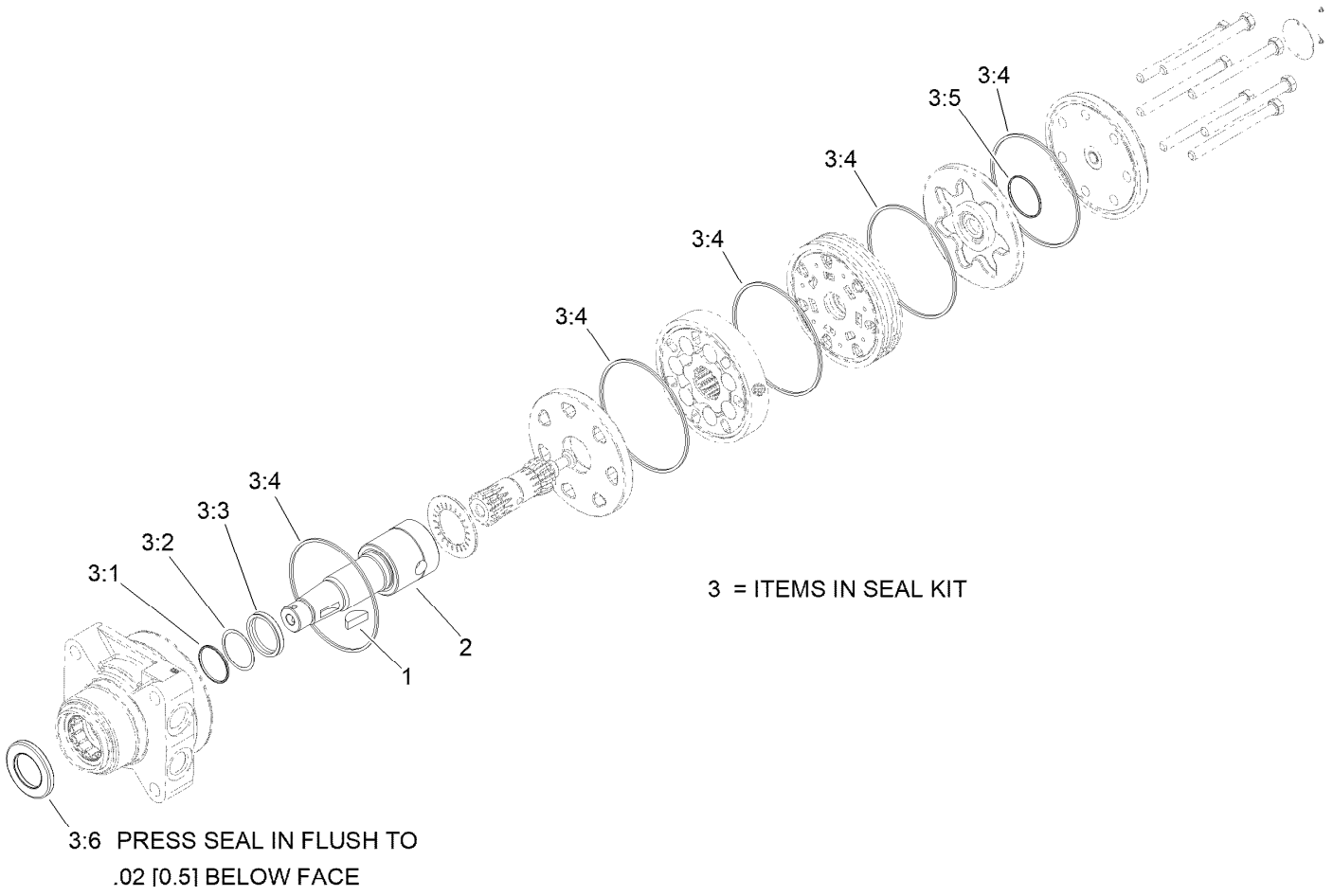


Hydraulic Drive and Wheel Assembly

Ref.	Part Number	Qty.	Description
1	110-8785	1	HYD Motor ASM (CCW)
2	110-8786	1	HYD Motor ASM (CW)
3	119-8238	8	Spacer-Deck Pulley
4	104-0485-0P	2	Shield-Wheel
5	3274-99	8	Screw-HSH
6	147-3595	2	Bracket-Brake
7	3296-23	8	Nut-Lock, NI
8	104-7705	2	Brake ASM
9	321-5	8	Screw-HH
10	3296-42	8	Nut-Lock, NI
11	114-2726	2	Lever-Brake
13		2	Wheel Hub/Stud ASM ●
13:1	104-0462	1	Hub-Wheel, Spacer
13:2	10-6830	4	Stud-Type, Drive
14	104-4809	2	Drum-Brake
15	3274-105	8	Screw-HSBH
16	116-1399	2	Locknut

Ref.	Part Number	Qty.	Description
17		2	Tire And Rim ASM ●
17:1	121-3548	1	Rim
17:2	117-5125	1	Tire
17:3	232-27	1	Stem-Valve
18	139-2564	8	Nut-Lug
19	95-8683	2	Bracket-Pivot, Brake
20	256-156	2	Bushing-Flange
21	3234-11	4	Screw-HHF
22	104-4625-03	1	Shaft-Pivot, Brake
23	115-6672	2	Brake Lever ASM
23:1	104-4627	1	Rod-Adjusting
23:2	1-303105	1	Yoke-Adjustable
23:3	3220-2	1	Nut-Hex Jam
24	283-1	2	Pin-Clevis
25	3272-10	2	Pin-Cotter
26	32128-43	4	Nut-Flange
27	3272-6	2	Pin-Cotter

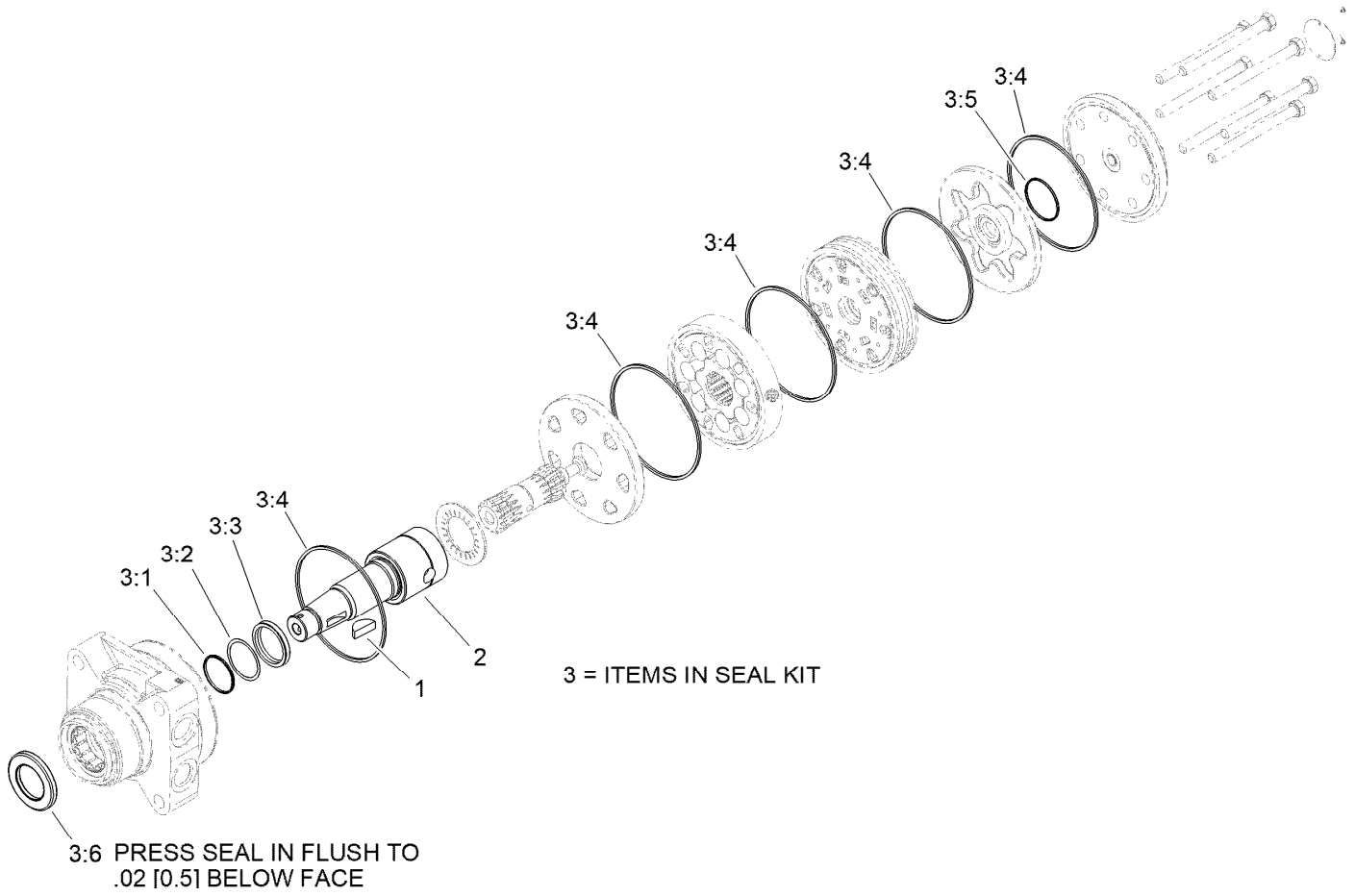
● Not serviced separately



Hydraulic Motor Assembly No. 110-8785

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

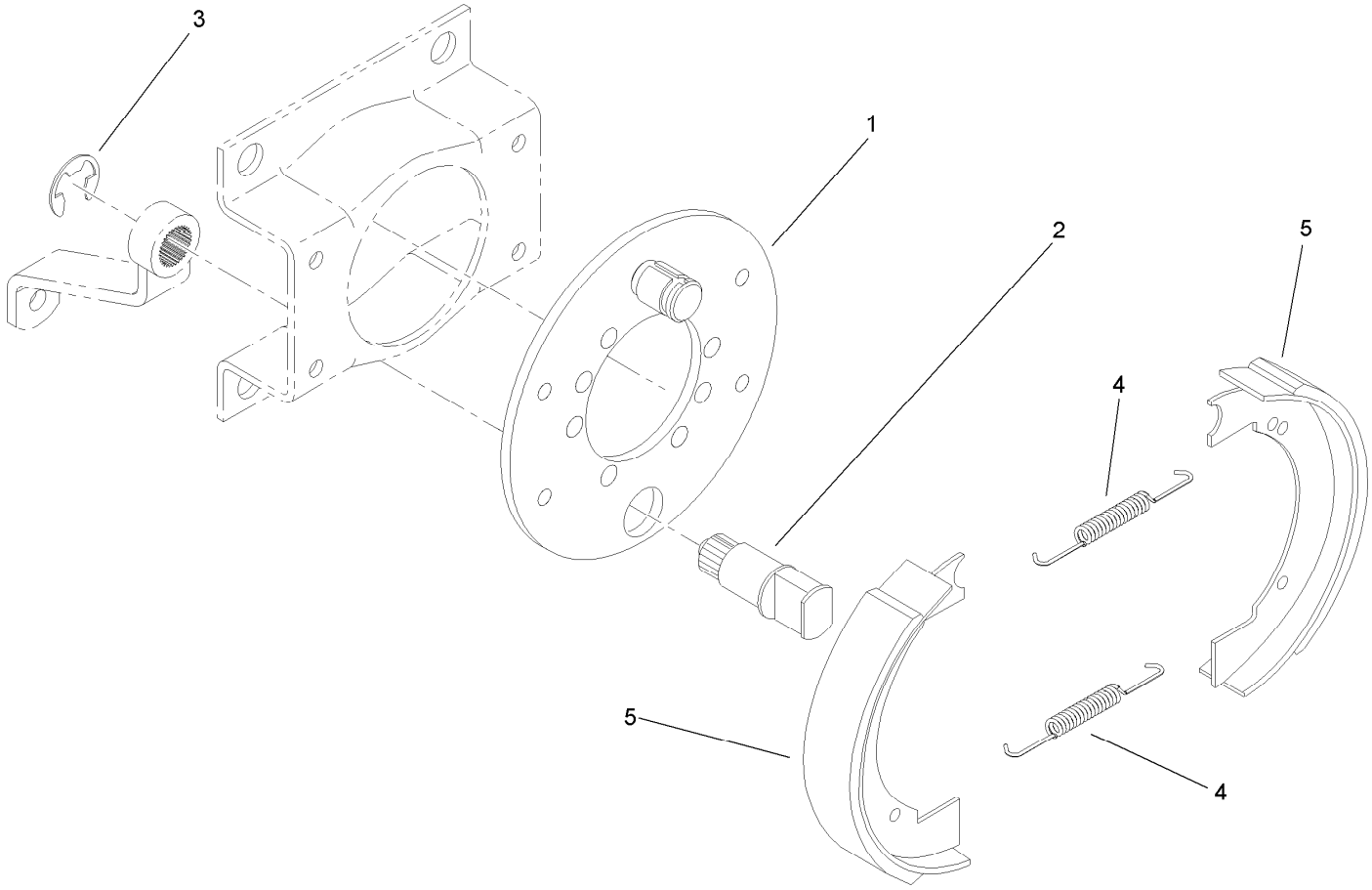
● Not serviced separately



Hydraulic Motor Assembly No. 110-8786

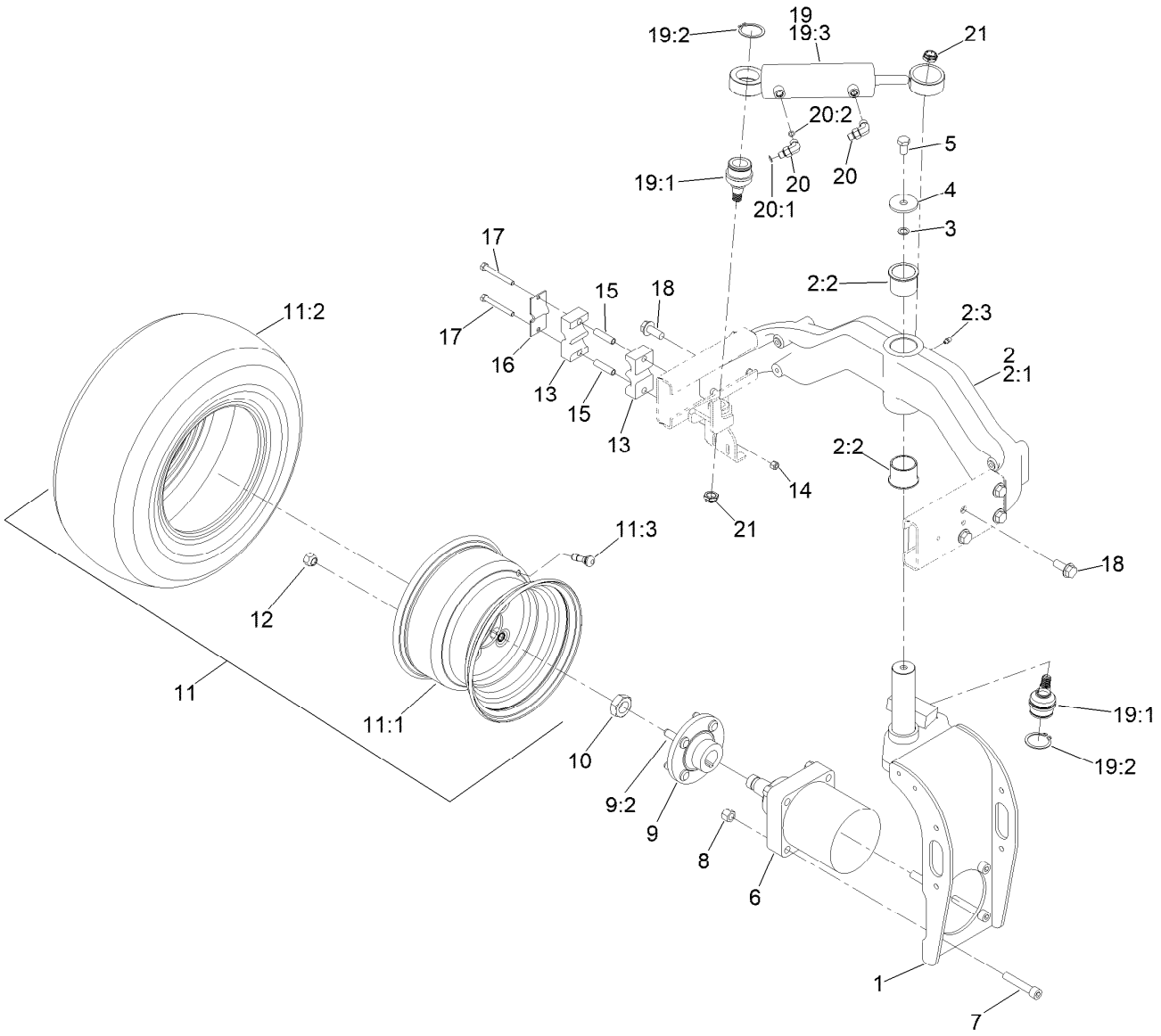
Ref.	*Part Number*	*Qty.*	*Description*
1	3257-42	1	Key-Woodruff
2	99-3090	1	Shaft-Coupling
3	100-6131	1	Seal Kit
3:1		1	Ring-Back Up ●
3:2		1	Washer-Back Up ●
3:3		1	Seal-Shaft ●
3:4		5	Seal-Ring ●
3:5		1	Seal-Commutator ●
3:6		1	Seal-Dirt And Water ●

● Not serviced separately



Brake Assembly No. 104-7705

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

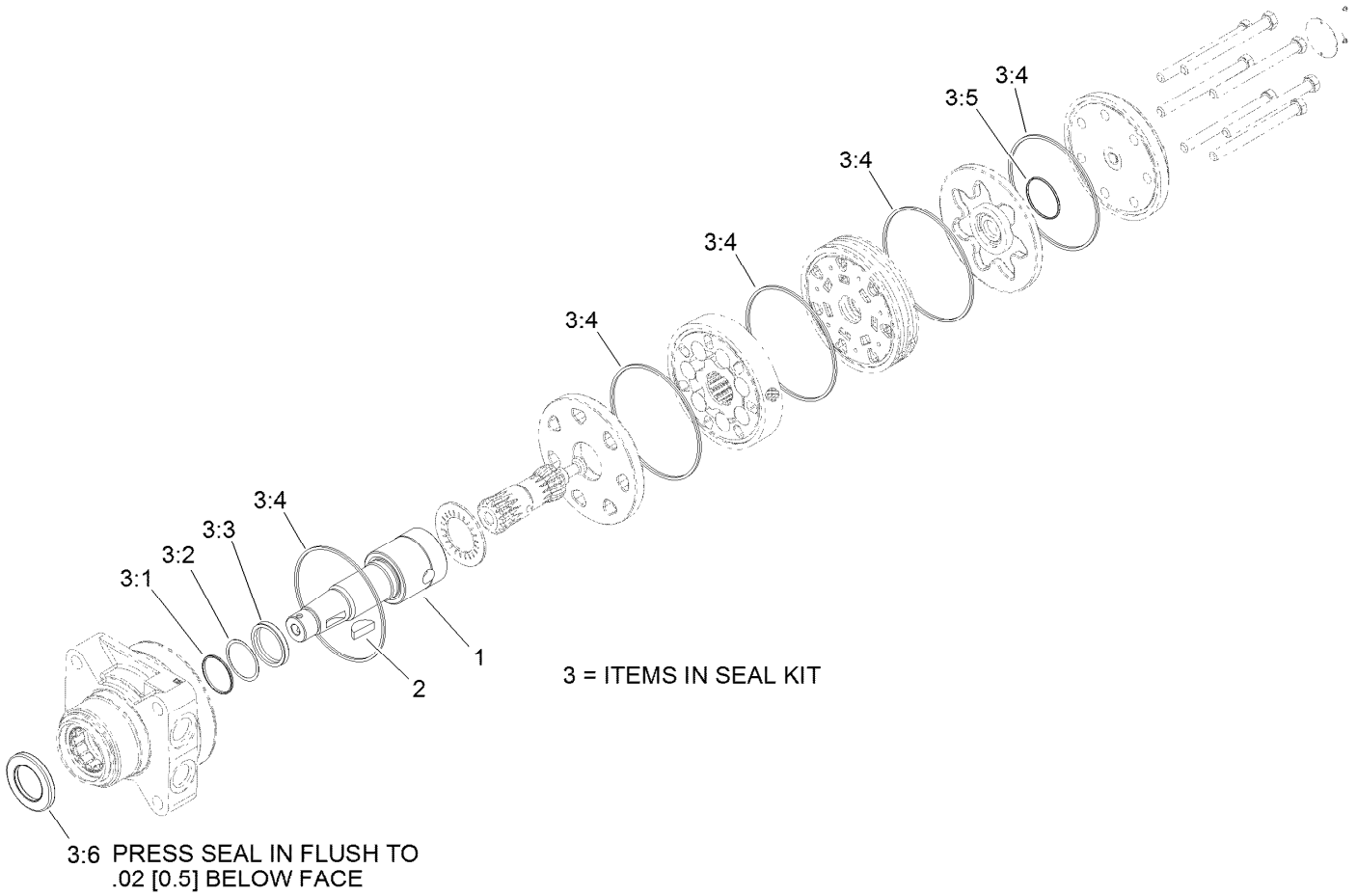


Rear Fork and Tire Assembly

Ref.	Part Number	Qty.	Description
1	140-6293-01	1	Fork-Rear
2	127-8576	1	Rear Casting ASM
2:1		1	Casting-Rear ●
2:2	127-8572	2	Bushing-Flange
2:3	302-5	1	Fitting-Grease
3	3255-2	1	Washer-Lock, EXT
4	75-7730	1	Washer-Thrust
5	325-3	1	Screw-HH
6	95-8694	1	HYD Motor ASM
7	3274-93	4	Screw-HSH
8	3296-23	4	Nut-Lock, NI
9	18-3209	1	Wheel Hub/Stud ASM
9:2	10-6830	4	Stud-Type, Drive
10	116-1399	1	Locknut
11		1	Wheel And Tire ASM ●
11:1	117-5129	1	Rim
11:2	115-1572	1	Tire

Ref.	Part Number	Qty.	Description
11:3	232-27	1	Stem-Valve
12	139-2564	4	Nut-Lug
13	82-8170	2	Clamp
14	3296-29	2	Nut-Lock, NI
15	93-7960	2	Spacer
16	93-7961	1	Clamp-Drain, Case
17	322-13	2	Screw-HH
18	3234-38	8	Screw-HHF
19		1	Steering Cylinder ASM ●
19:1	121-3605	2	Ball Joint
19:2	32151-104	2	Ring-Retaining, External
19:3	121-3653	1	Cylinder-HYD
20	340-132	2	Fitting-Elbow, 90 DEG
20:1	237-78	1	O-Ring
20:2	237-21	1	O-Ring
21	121-3611	2	Nut-Hex, Flextop

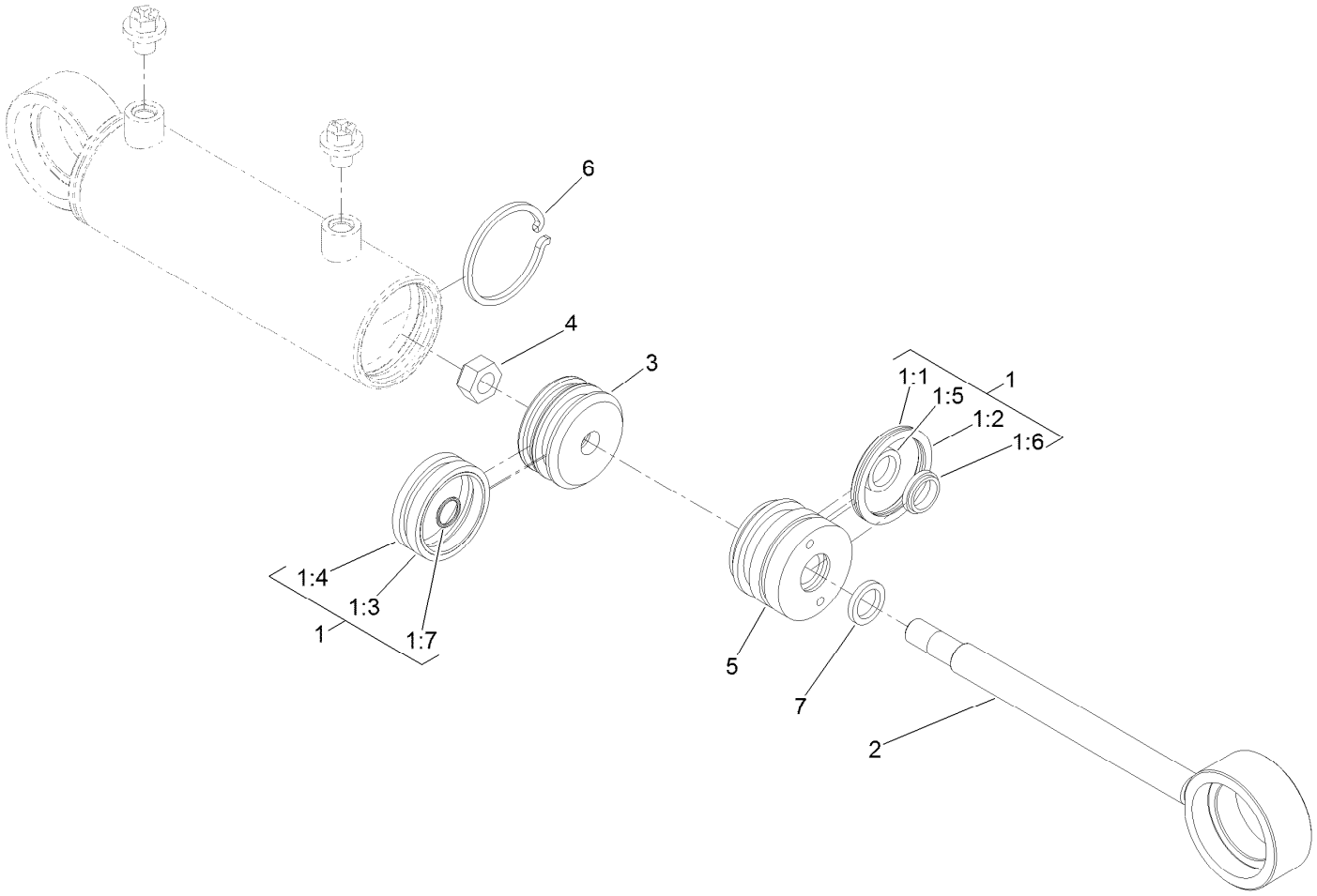
● Not serviced separately



Hydraulic Motor Assembly No. 95-8694

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

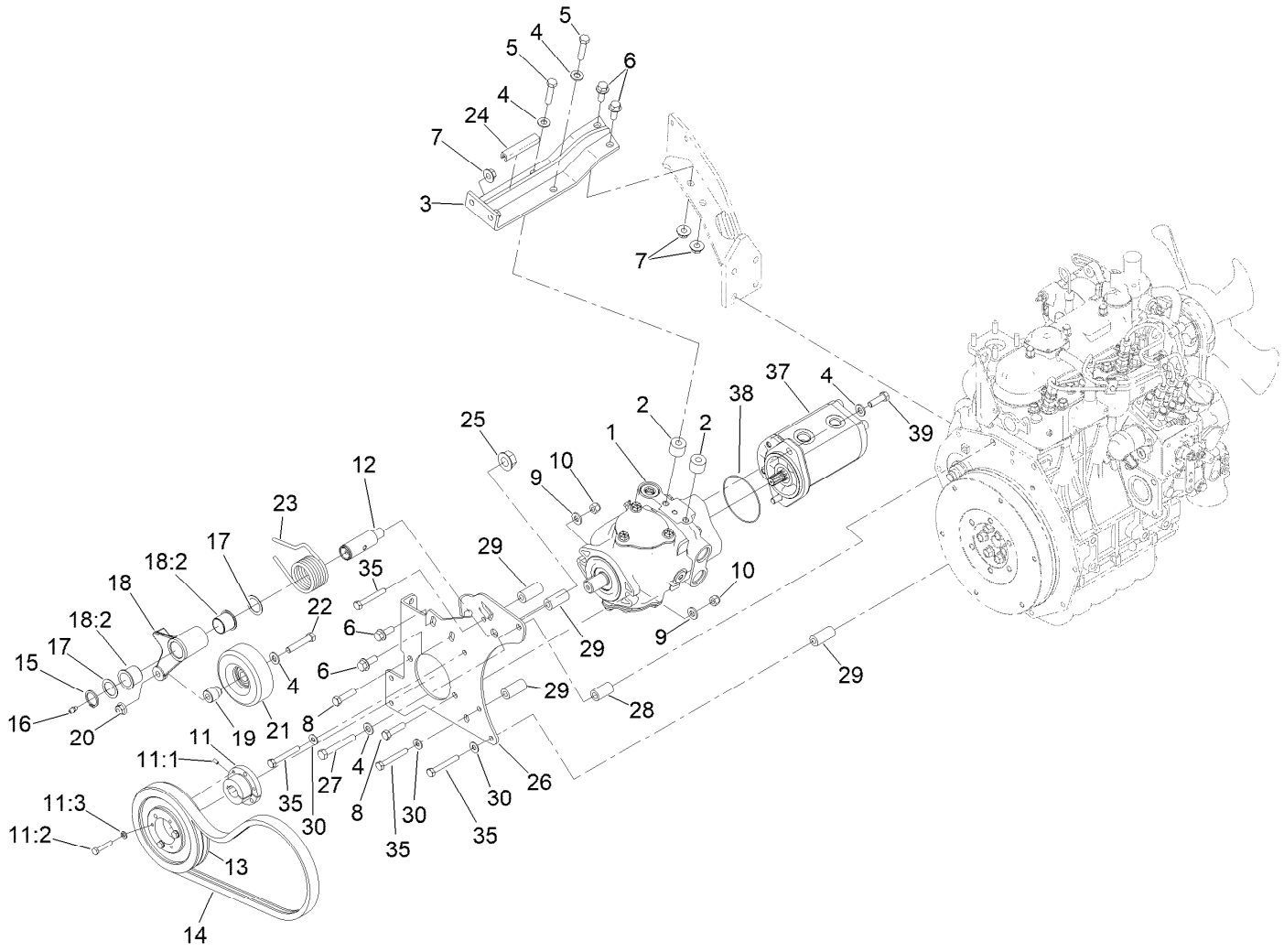
● Not serviced separately



Hydraulic Cylinder Assembly No. 121-3653

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

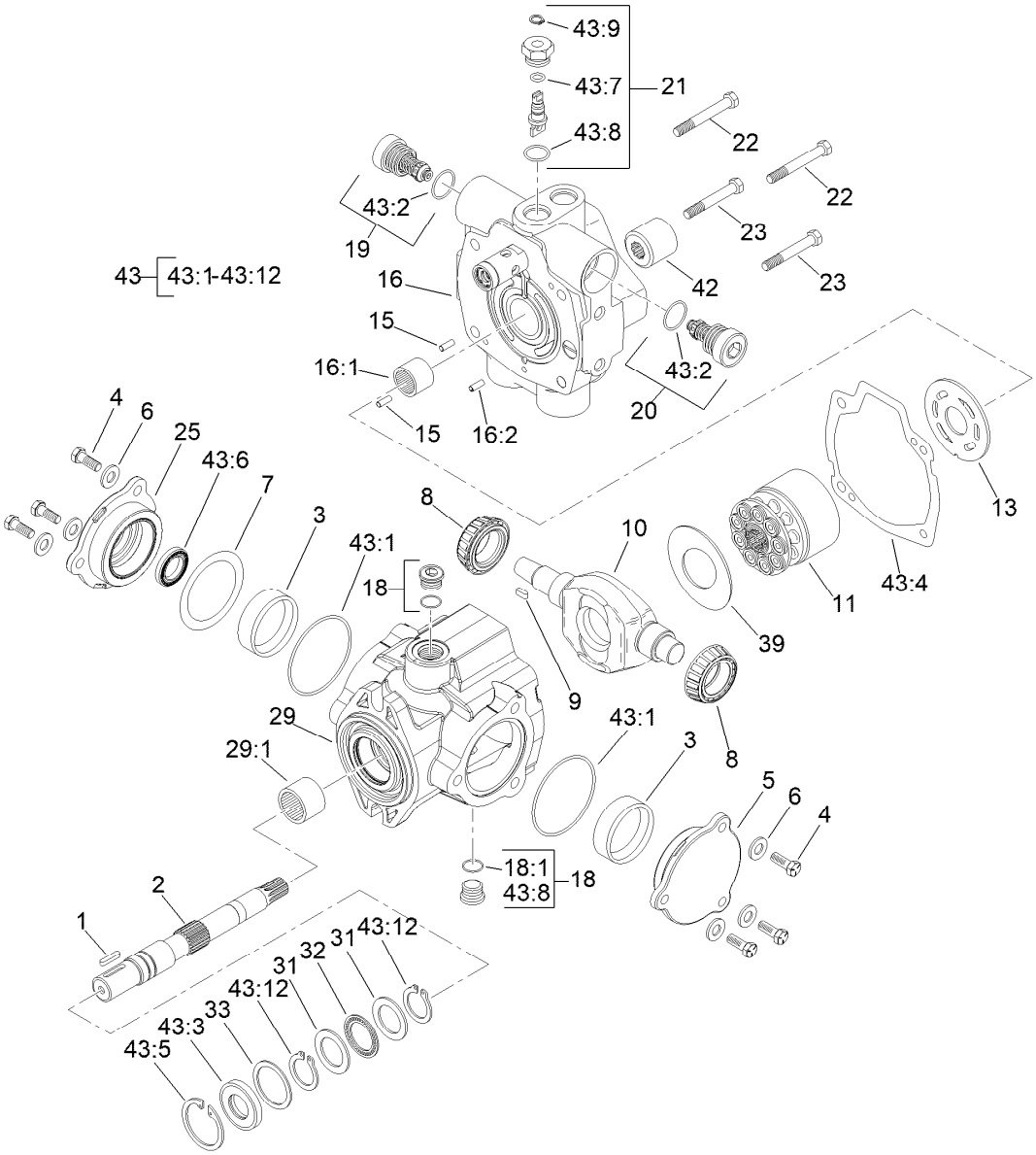
● Not serviced separately



Tandem Hydraulic Pump Assembly

Ref.	Part Number	Qty.	Description
1	104-4890	1	Piston Pump ASM
2	99-3440	2	Spacer
3	99-3436-0P	1	Support-Pump
4	3256-24	6	Washer-Plain
5	323-19	2	Screw-HH
6	3234-11	4	Screw-HHF
7	32128-43	4	Nut-Flange
8	323-8	2	Screw-HH
9	100-4852	2	Washer-Hardened
10	3296-39	2	Nut-Lock, NI
11	93-6842	1	Bushing-Lock, Taper
11:1	3245-36	1	Screw-Set, HSH
11:2	321-13	3	Screw-HH
11:3	3253-3	3	Washer-Lock
12	99-3529	1	Shaft-Pivot, Idler
13	93-6841	1	Pulley
14	95-8730	1	V-Belt
15	32151-36	1	Ring-Retaining
16	302-5	1	Fitting-Grease

Ref.	Part Number	Qty.	Description
17	74-1810	2	Washer
18	137-1653	1	Idler Arm ASM
18:2	126-1963	2	Bushing-Pivot
19	95-8806	1	Spacer
20	104-8301	1	Nut-HF, NI
21	95-8802	1	Pulley-Idler
22	323-10	1	Screw-HH
23	95-8917	1	Spring-Torsion
24	70-2041	1	Trim - Edge
25	32128-54	1	Nut-HF
26	95-8933-0P	1	Plate - Pump Mount *b
27	42-9370	1	Screw-HH
28	95-8736	1	Spacer
29	95-8941	4	Spacer-Mount, Pump
30	87-8640	3	Washer-Flat
35	33114-060	4	Screw-HH
37	136-3743	1	Pump-Gear
38	353-949	1	O-Ring
39	323-7	2	Screw-HH



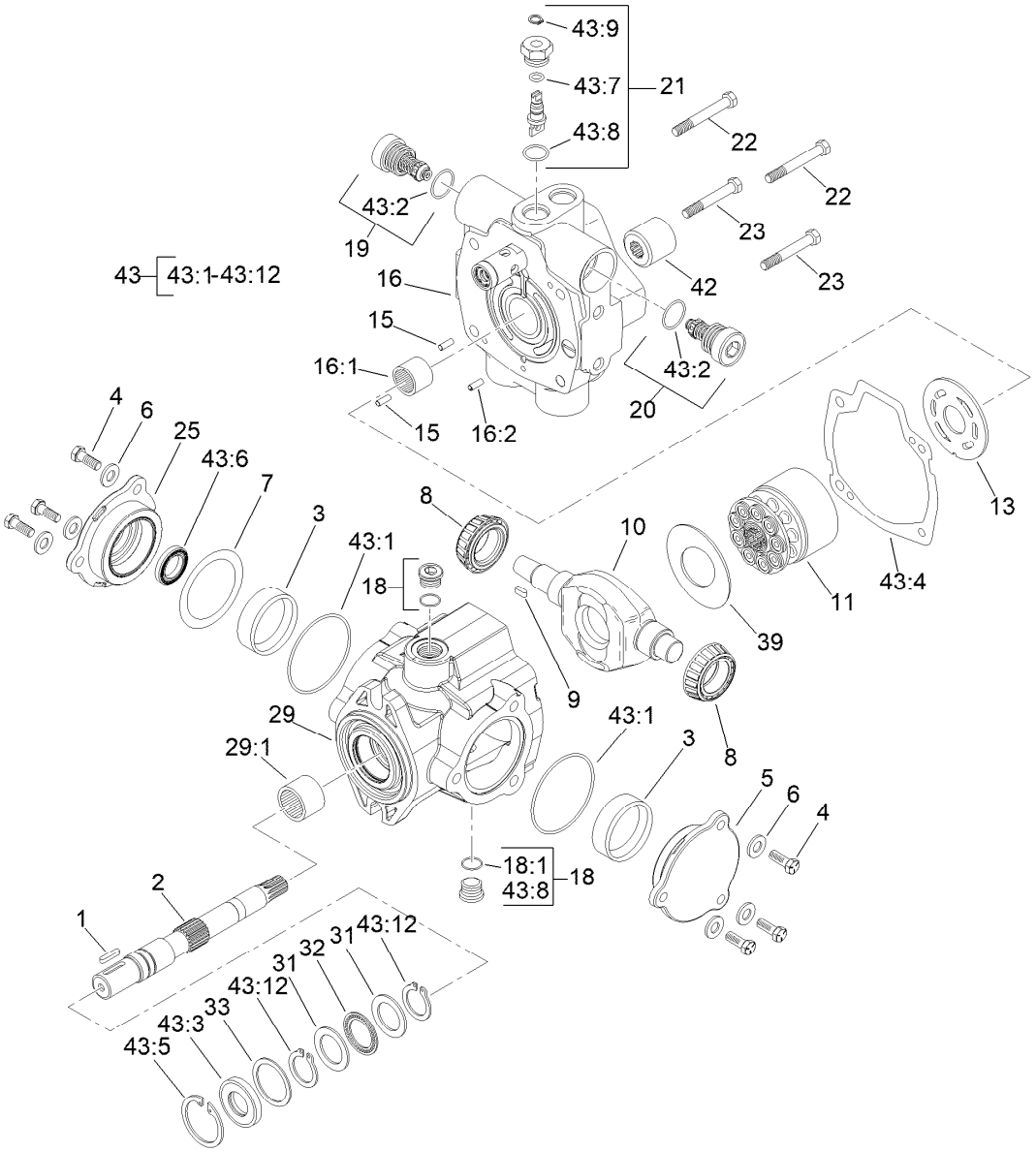
Hydraulic Pump Assembly No. 104-4890

Ref.	Part Number	Qty.	Description
1	94-3645	1	Key
2	94-6359	1	Shaft-Drive
3	104-4046	2	Bearing-Cup
4	98-4640	6	Screw-Cap
5	98-4644	1	Plate-Cover
6	105-9762	6	Washer
7	100-3182	2	Shim Kit
8	98-4639	2	Bearing-Cone
9	94-3646	1	Key
10	104-4888	1	Swashplate
11	76-6070	1	Rotating Kit
13	104-0429	1	Plate-Valve
15	76-6150	2	Pin-Dowel
16	105-3813	1	Endcover Sub ASM
16:1	94-6368	1	Bearing
16:2		1	Pin-Roll ■
18	74-9280	2	Plug ASM
18:1		1	O-Ring ■

Ref.	Part Number	Qty.	Description
19	104-4889	1	Relief Valve ASM
20	105-3812	1	Valve-Check
21	105-3811	1	Valve-Bypass
22	76-6170	2	Capscrew
23	76-6160	2	Capscrew
25	98-4645	1	Plate-Cover
29	100-3176	1	Housing ASM
29:1	94-6363	1	Bearing
31	252-71	2	Washer-Thrust
32	252-66	1	Bearing-Thrust
33	33-3720	1	Washer
39	98-4635	1	Insert-Plate, Cam
42	74-9040	1	Coupler
43	120-5754	1	Seal Kit
43:1		2	O-Ring ■
43:2		2	O-Ring ■
43:3		1	Seal-Shaft ■
43:4		1	Gasket ■

● Not illustrated

■ Not serviced separately



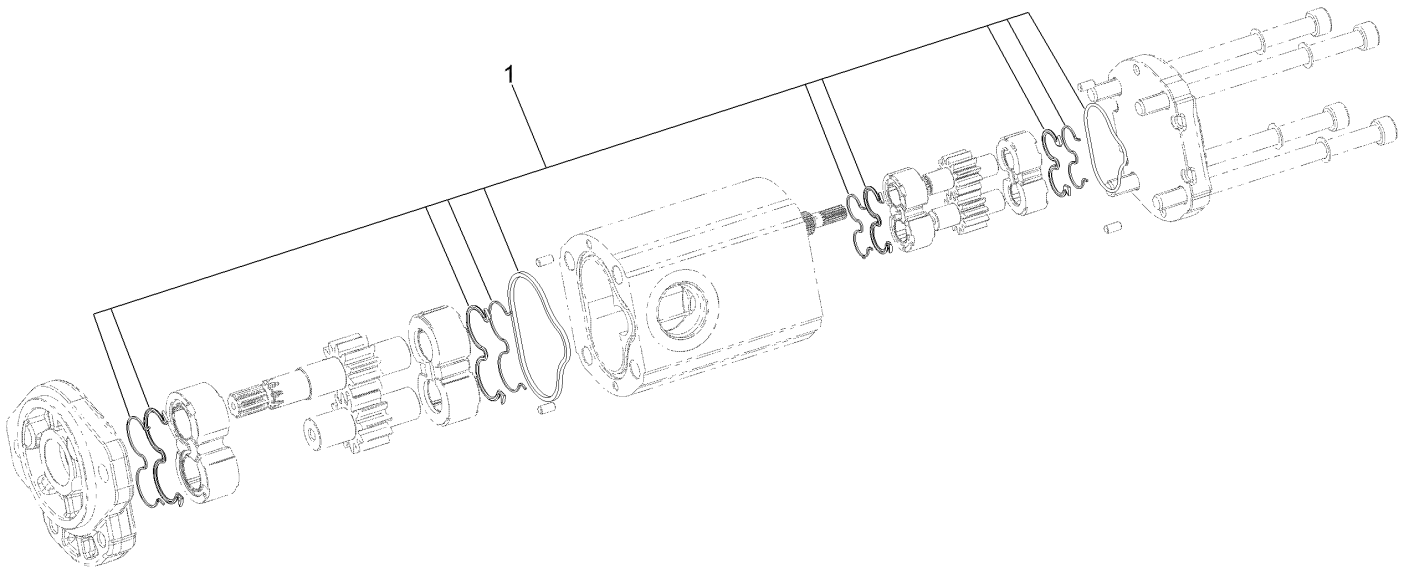
Hydraulic Pump Assembly No. 104-4890 (continued)

Ref.	Part Number	Qty.	Description
43:5		1	Ring-Retaining ■
43:6		1	Seal-Shaft ■
43:7		1	O-Ring ■
43:8		5	O-Ring ■
43:9		1	Ring-Retaining ■

Ref.	Part Number	Qty.	Description
43:10		1	O-Ring ● ■
43:11		1	O Ring-Molded ● ■
43:12		2	Ring-Retaining ■
43:13		1	O-Ring ■ ●

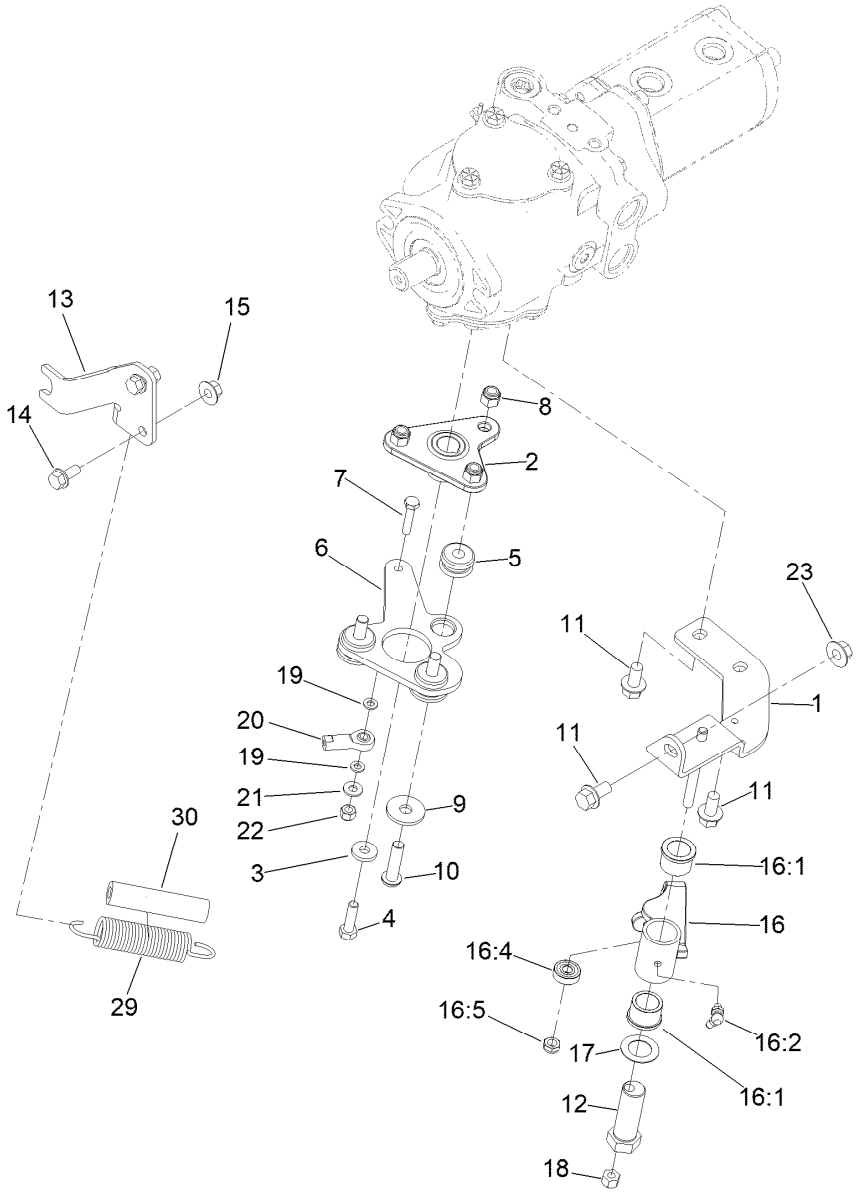
● Not illustrated

■ Not serviced separately



Gear Pump Assembly No. 136-3743

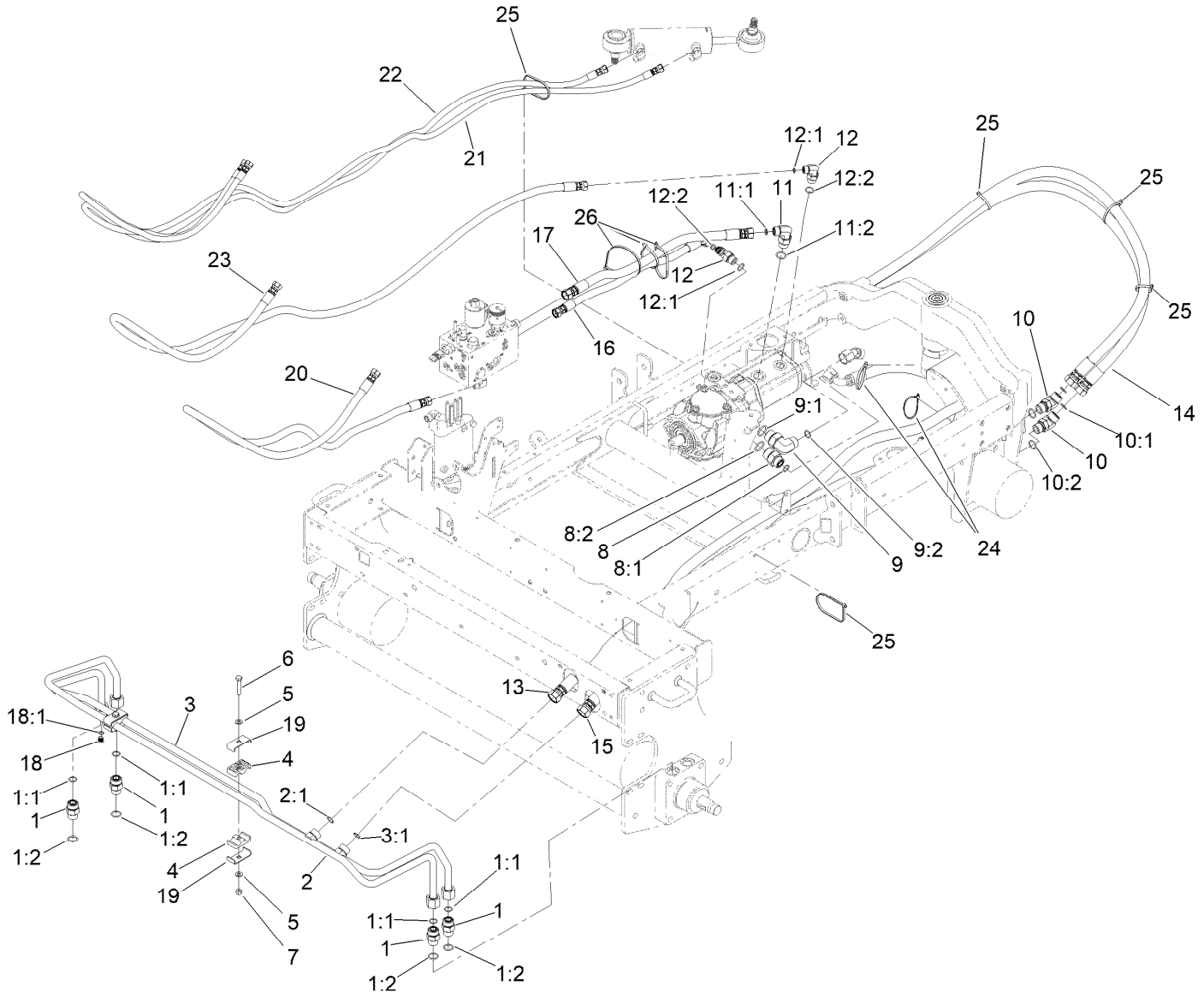
Ref.	*Part Number*	*Qty.*	*Description*
1	110-8755	1	Seal Kit



Tandem Pump Mount Assembly

Ref.	Part Number	Qty.	Description
1	95-8960-0P	1	Bracket-Neutral
2	120-5566	1	Hub
3	88-7200	1	Washer-Flat
4	3210-6	1	Screw-HH
5	63-9750	3	Mount
6	99-3594-0P	1	Lever-Pump
7	321-8	1	Screw-HH
8	3296-39	3	Nut-Lock, NI
9	2844	3	Washer
10	95-3857	3	Screw-HSBH
11	3234-1	3	Screw-HHF
12	76-8640	1	Stud-Traction
13	104-0464-03	1	Bracket-Support, Cable
14	3234-5	2	Screw-HHF
15	32128-44	2	Nut

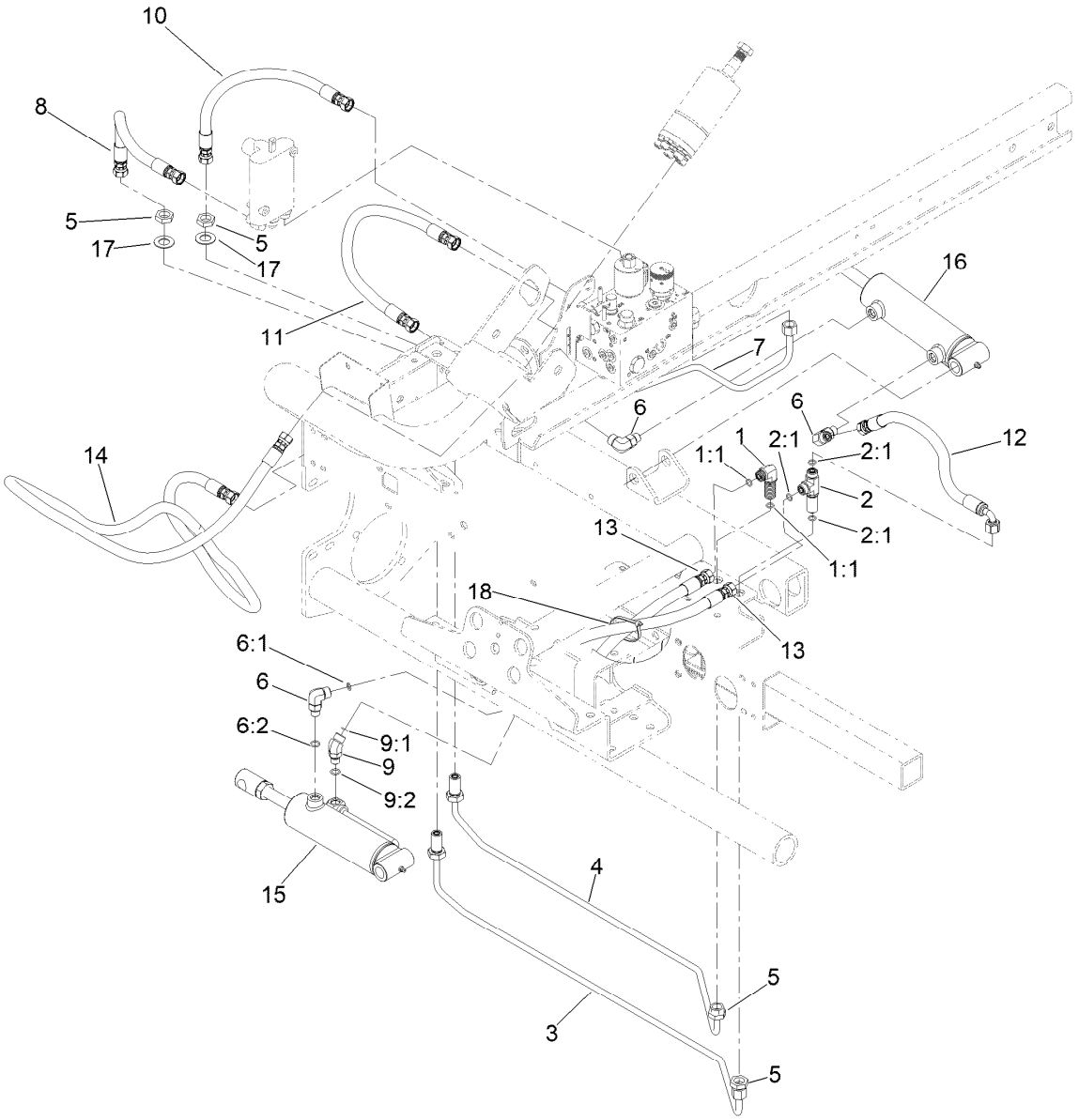
Ref.	Part Number	Qty.	Description
16	140-6168	1	Neutral Arm ASM
16:1	256-113	2	Bushing-Flange
16:2	302-60	1	Fitting-Grease
16:4	251-259	1	Bearing-Ball
16:5	3296-47	1	Nut-Lock,NI
17	3-6498	1	Washer-Thrust
18	3296-29	1	Nut-Lock, NI
19	33093-00	2	Washer-Flat
20	2411-41	1	Rod End-Ball Joint
21	3256-22	1	Washer-Flat
22	3296-42	1	Nut-Lock, NI
23	32128-43	1	Nut-Flange
29	145-5262	1	Spring-Extension
30	99-3556	1	Hose



Traction and Steering Circuit Assembly

Ref.	Part Number	Qty.	Description
1	340-7	4	Fitting-Straight
1:1	237-65	1	O-Ring
1:2	237-80	1	O-Ring
2	95-8783	1	Tube ASM
2:1	237-65	1	O-Ring
3	95-8784	1	Tube ASM
3:1	237-65	1	O-Ring
4	56-7971	4	Clamp-Tube
5	3256-23	4	Washer-Plain
6	322-9	2	Screw-HH
7	3296-29	2	Nut-Lock, NI
8	340-8	1	Fitting-Straight
8:1	237-65	1	O-Ring
8:2	237-81	1	O-Ring
9	340-139	1	Fitting-Elbow 90
9:1	237-81	1	O-Ring
9:2	237-65	1	O-Ring
10	340-14	2	Fitting-HYD, 45 DEG
10:1	237-65	1	O-Ring
10:2	237-80	1	O-Ring
11	340-105	1	Fitting-Elbow, 90 DEG

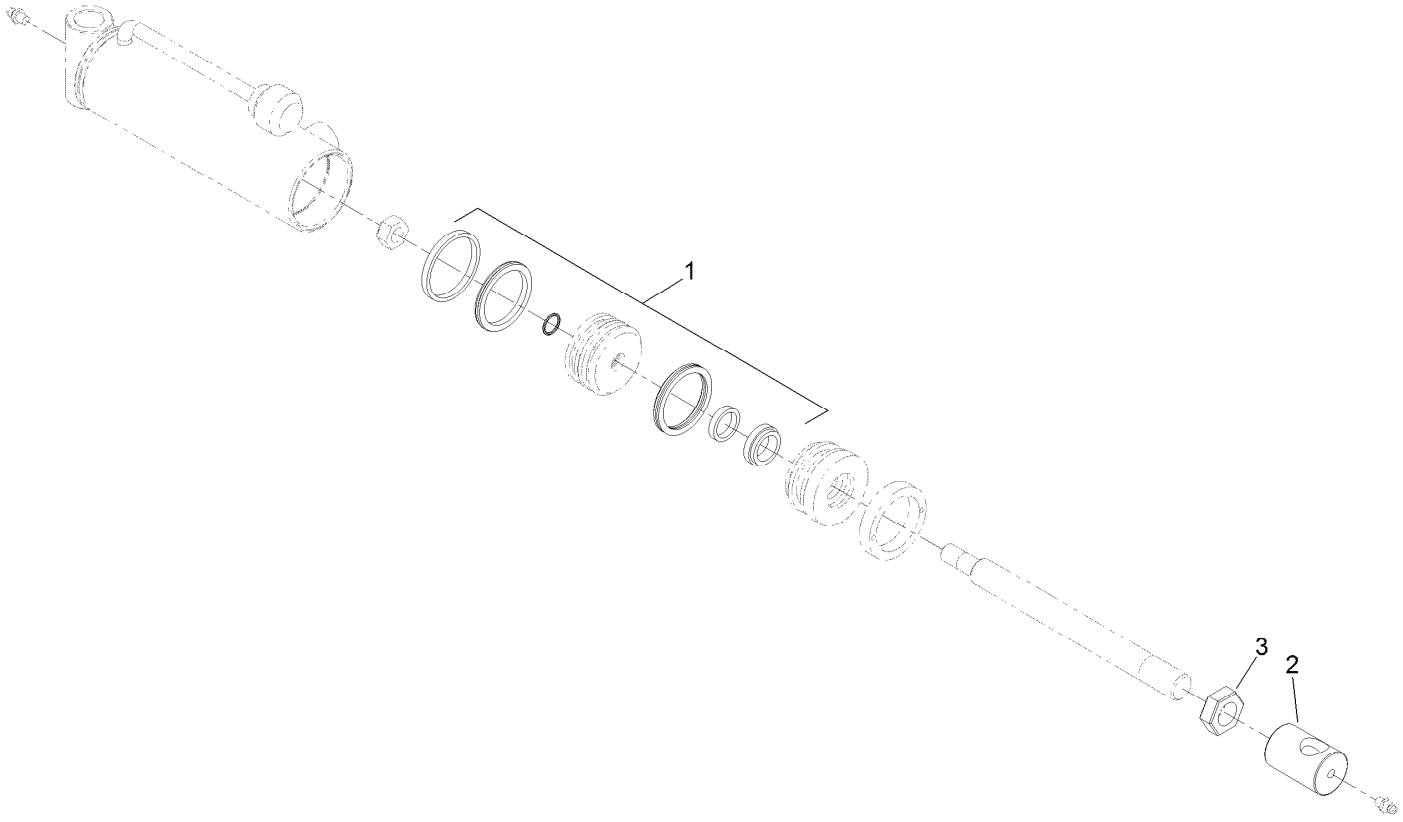
Ref.	Part Number	Qty.	Description
11:1	237-80	1	O-Ring
11:2	237-30	1	O-Ring
12	340-18	2	Fitting-HYD, 90 DEG
12:1	237-79	1	O-Ring
12:2	237-22	1	O-Ring
13	105-1221	1	Hose ASM
14	105-1222	1	Hose ASM
15	105-1214	1	Hose-HYD
16	106-4197	1	Hose ASM
17	161-8376	1	Hose ASM
18	353-990	1	Plug ASM
18:1	237-78	1	O-Ring
19	119-1419	4	Plate-Clamp
20	95-8842	1	Hose-HYD
21	95-8845	1	Hose ASM
22	95-8844	1	Hose ASM
23	147-6064	1	Hose ASM
24	3290-378	2	Tie-Cable
25	3290-379	5	Tie-Cable
26	3334-945	3	Tie-Cable



Lift Circuit Assembly

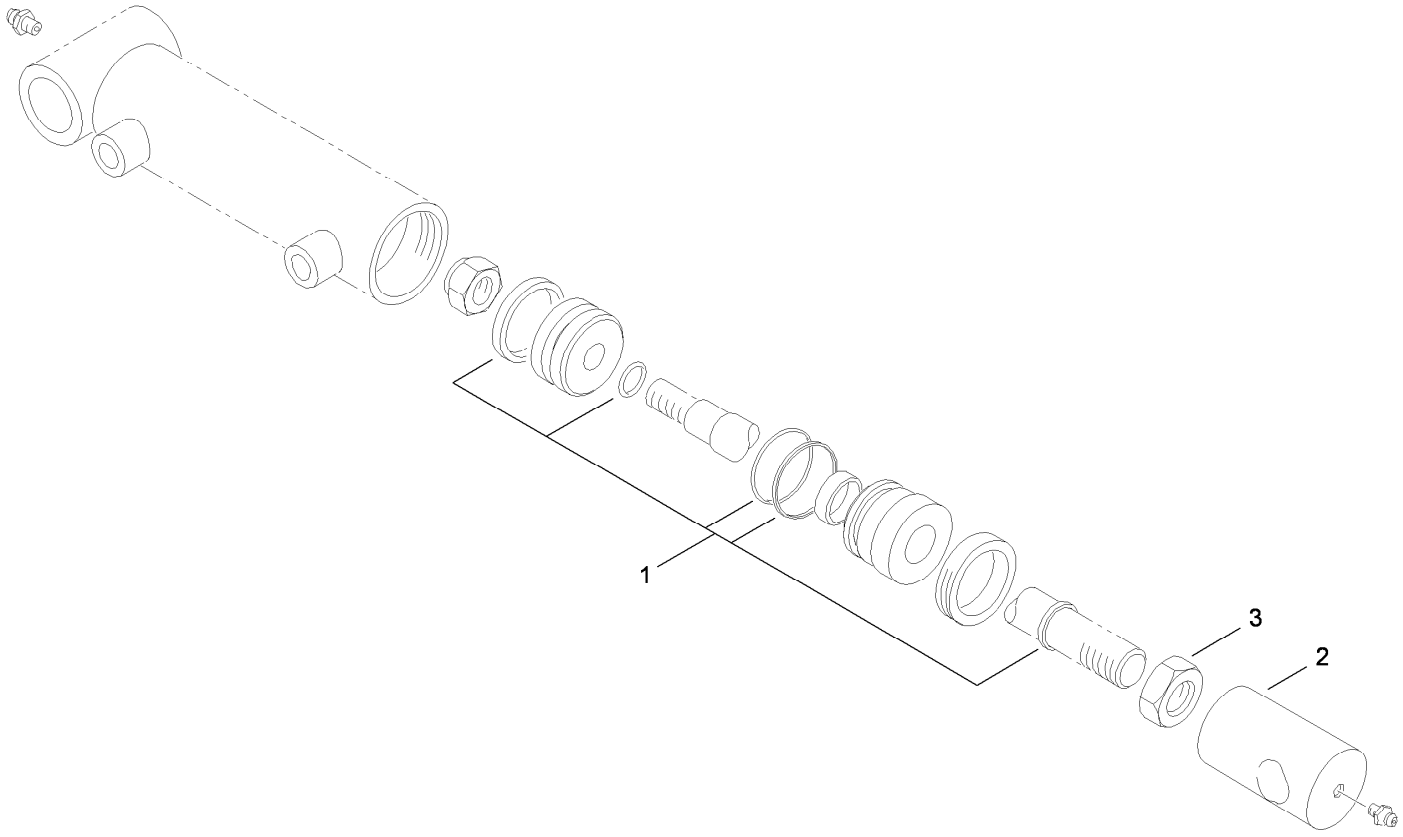
Ref.	Part Number	Qty.	Description
1	340-154	1	Union-Bulkhead
1:1	237-22	2	O-Ring
2	340-68	1	Fitting-Tee, Bulkhead
2:1	237-22	3	O-Ring
3	95-8984	1	Tube-HYD
4	95-8983	1	Tube-HYD
5	340-70	4	Nut-Lock
6	340-77	3	Fitting-Elbow, 90 DEG
6:1	237-22	1	O-Ring
6:2	237-42	1	O-Ring
7	99-3551	1	Tube-HYD
8	99-3575	1	Hose-HYD

Ref.	Part Number	Qty.	Description
9	340-87	1	Fitting-Elbow, 45 DEG
9:1	237-22	1	O-Ring
9:2	237-42	1	O-Ring
10	99-3579	1	Hose-HYD
11	99-3576	1	Hose-HYD
12	104-2234	1	Hose-HYD
13	117-5147	2	Hose-HYD
14	95-8843	1	Hose-HYD
15	117-5109	1	HYD Cylinder ASM
16	112-9916	1	HYD Cylinder ASM
17	1278	2	Washer
18	3290-378	1	Tie-Cable



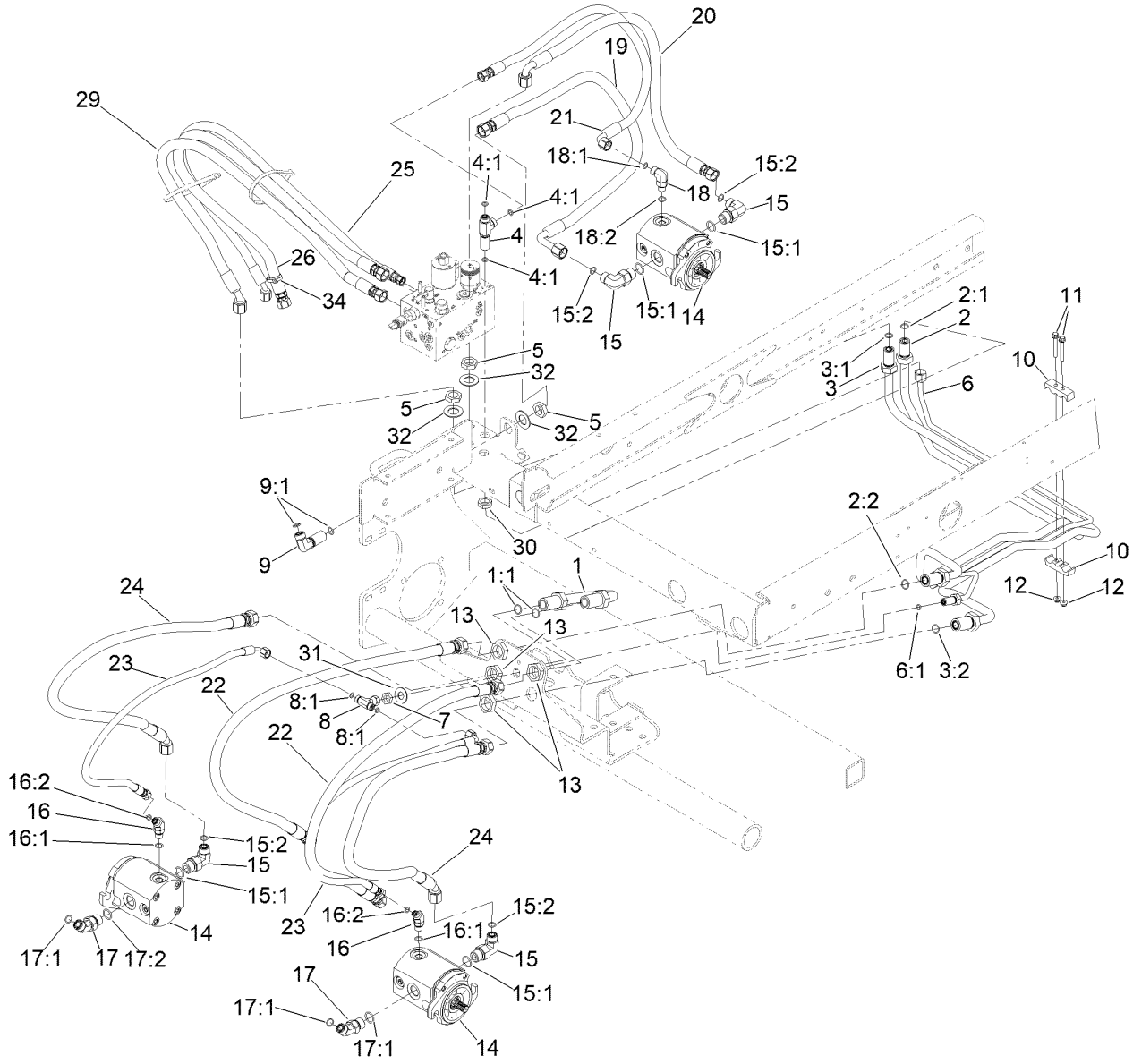
Hydraulic Cylinder Assembly No. 117-5109

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



Hydraulic Cylinder Assembly No. 112-9916

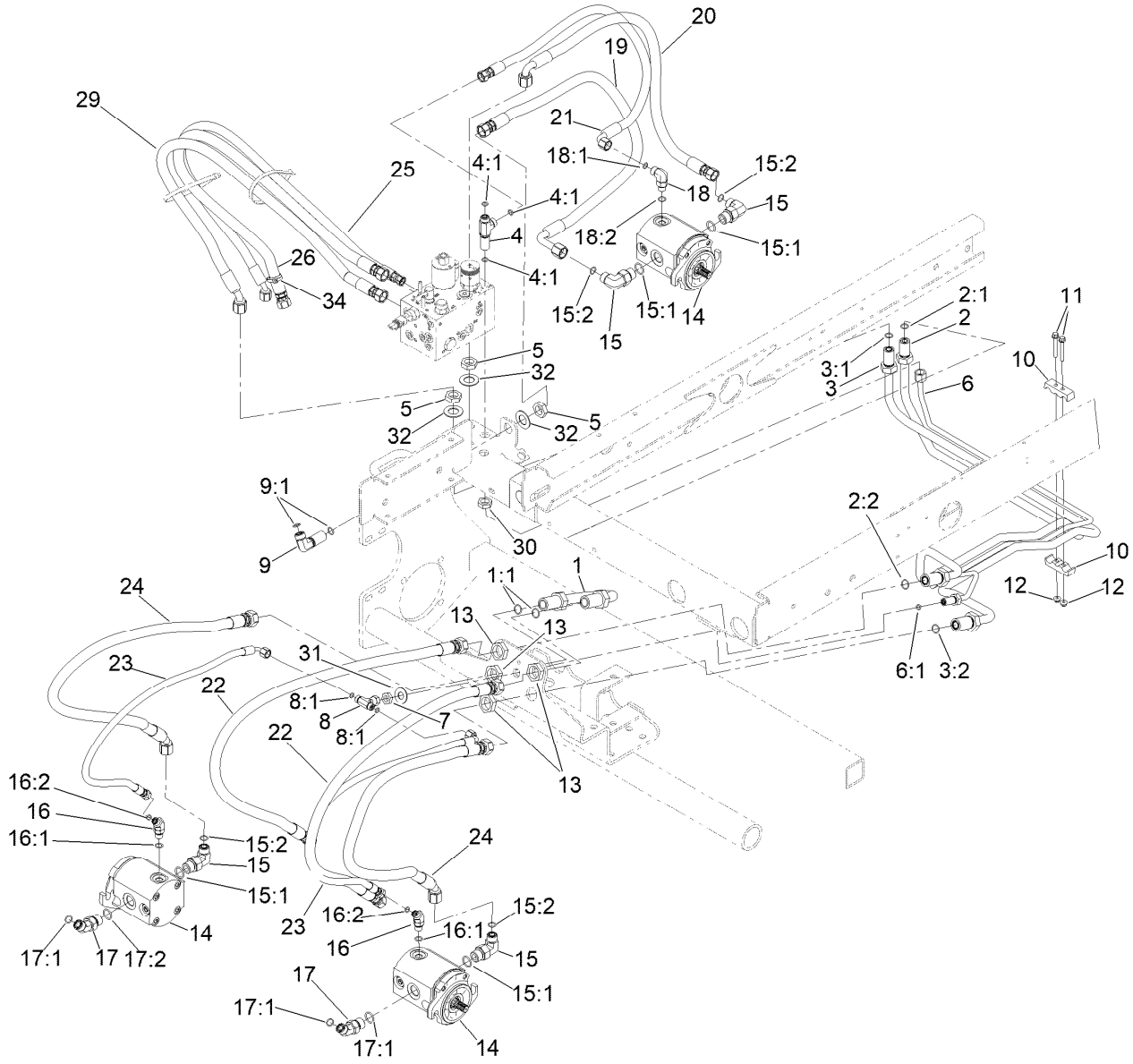
Ref.	*Part Number*	*Qty.*	*Description*
1	115-3410	1	Seal Kit
2	108-9035	1	Clevis
3	3220-7	1	Nut-Jam



Hydraulic Mow Circuit Assembly

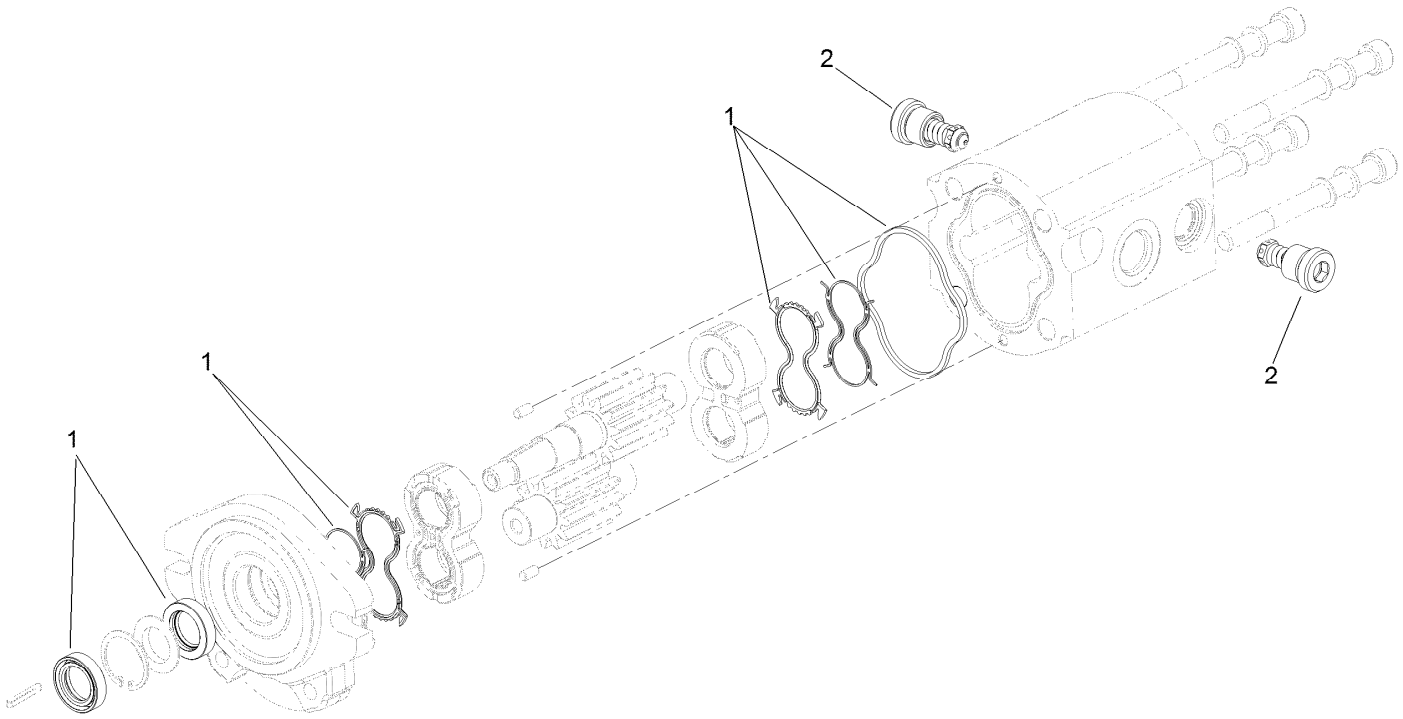
Ref.	Part Number	Qty.	Description
1	99-3640	1	Tube ASM
1:1	237-65	2	O-Ring
2	95-8980	1	Tube ASM
2:1	237-30	1	O-Ring
2:2	237-65	1	O-Ring
3	95-8981	1	Tube ASM
3:1	237-30	1	O-Ring
3:2	237-65	1	O-Ring
4	340-68	1	Fitting-Tee, Bulkhead
4:1	237-22	3	O-Ring
5	340-127	3	Nut-Bulkhead
6	95-8982	1	Tube ASM
6:1	237-21	1	O-Ring
7	340-78	1	Nut-Lock
8	99-3477	1	Fitting-Tee
8:1	237-21	2	O-Ring
9	93-9151	1	Fitting-HYD
9:1	237-30	2	O-Ring
10	93-2509	2	Clamp-Tube
11	3234-34	2	Screw-HHF
12	104-7201	2	Nut-HF, NI

Ref.	Part Number	Qty.	Description
13	340-74	4	Nut-Lock, Bulkhead
14	115-8250	3	Gear Motor ASM
15	340-105	4	Fitting-Elbow, 90 DEG
15:1	237-80	1	O-Ring
15:2	237-30	1	O-Ring
16	340-137	2	Fitting
16:1	237-21	1	O-Ring
16:2	237-42	1	O-Ring
17	340-89	2	Fitting-HYD, 45 DEG
17:1	237-30	1	O-Ring
17:2	237-80	1	O-Ring
18	340-77	1	Fitting-Elbow, 90 DEG
18:1	237-22	1	O-Ring
18:2	237-42	1	O-Ring
19	117-5145	1	Hose-HYD
20	117-5146	1	Hose-HYD
21	114-5500	1	Hose-HYD
22	117-5142	2	Hose-HYD
23	117-5144	2	Hose-HYD
24	117-5143	2	Hose-HYD
25	115-3412	1	Hose-HYD



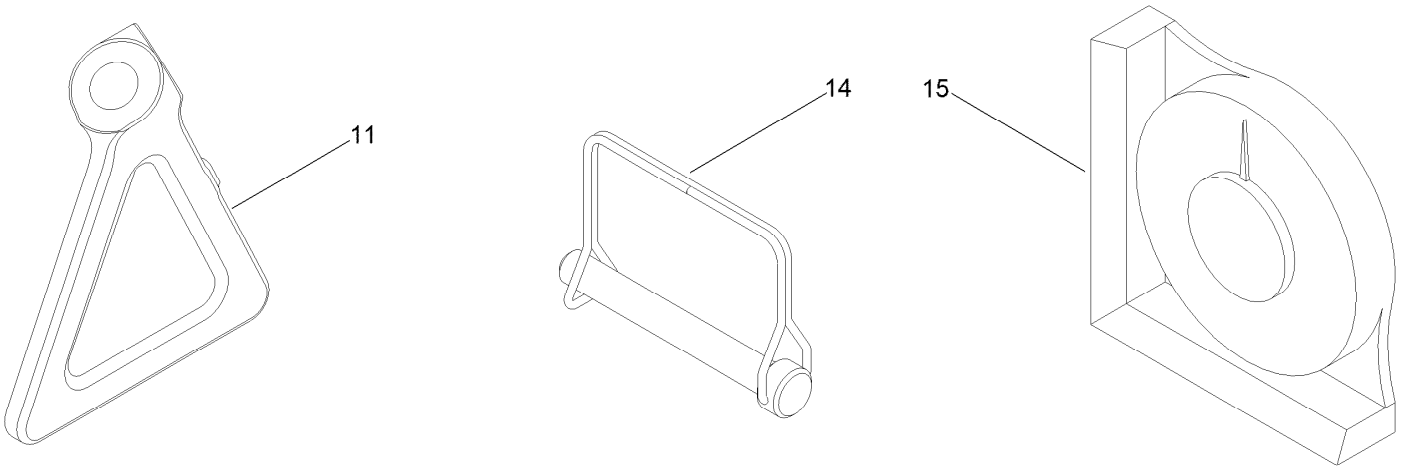
Hydraulic Mow Circuit Assembly (continued)

Ref.	Part Number	Qty.	Description
26	99-3578	1	Hose-HYD
29	99-3574	1	Hose-HYD
30	340-70	1	Nut-Lock
31	69-8980	1	Washer
32	69-8930	3	Washer
34	3290-378	1	Tie-Cable



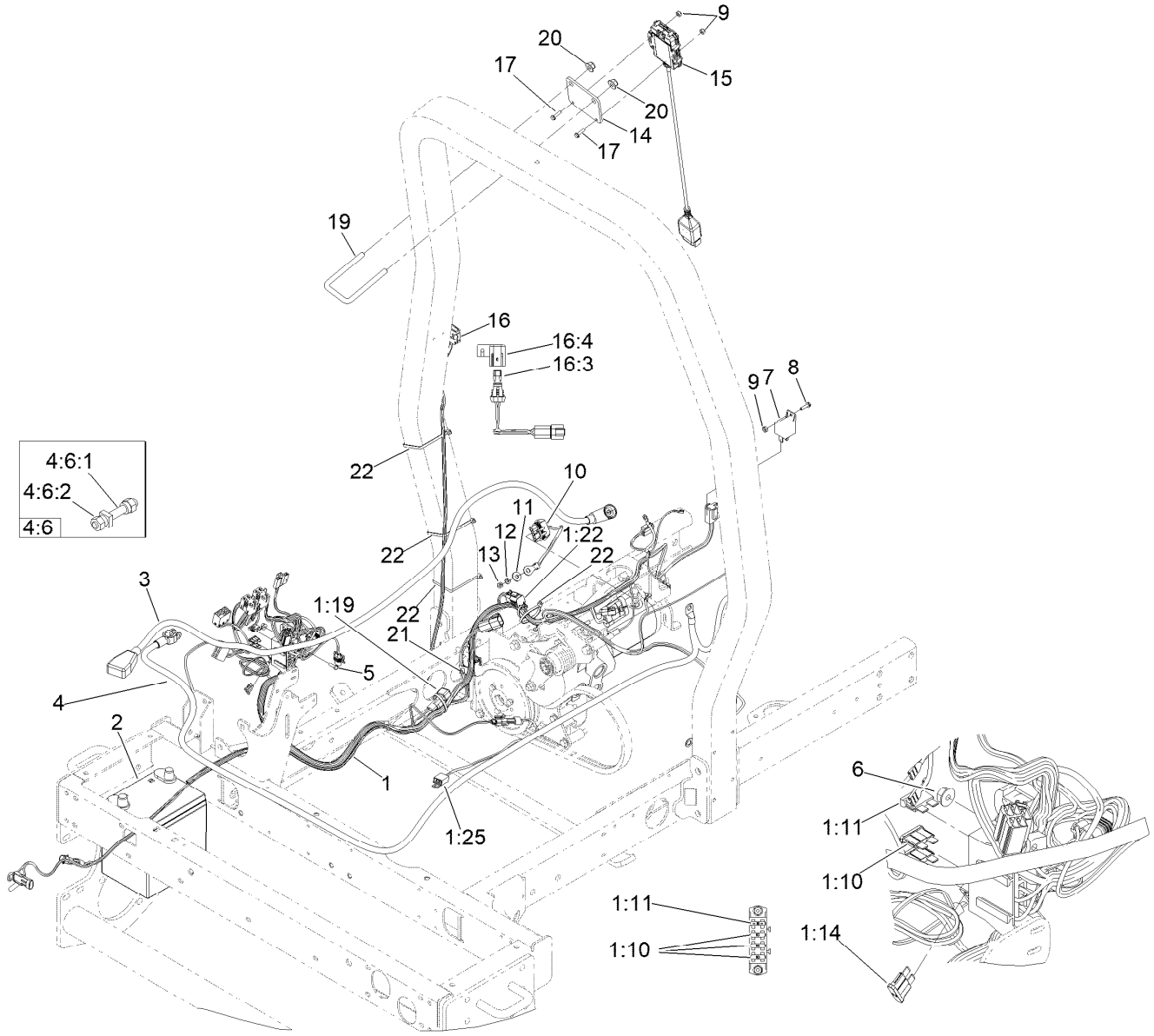
Gear Motor Assembly No. 115-8250

Ref.	*Part Number*	*Qty.*	*Description*
1	145-2784	1	Seal Kit
2	117-5107	2	Valve-Check



Optional Tool Assembly

Ref.	*Part Number*	*Qty.*	*Description*
11	119-8010-03	1	Kickstand
14	107-7400	1	Pin-Lynch
15	99-3503	1	Indicator-Angle

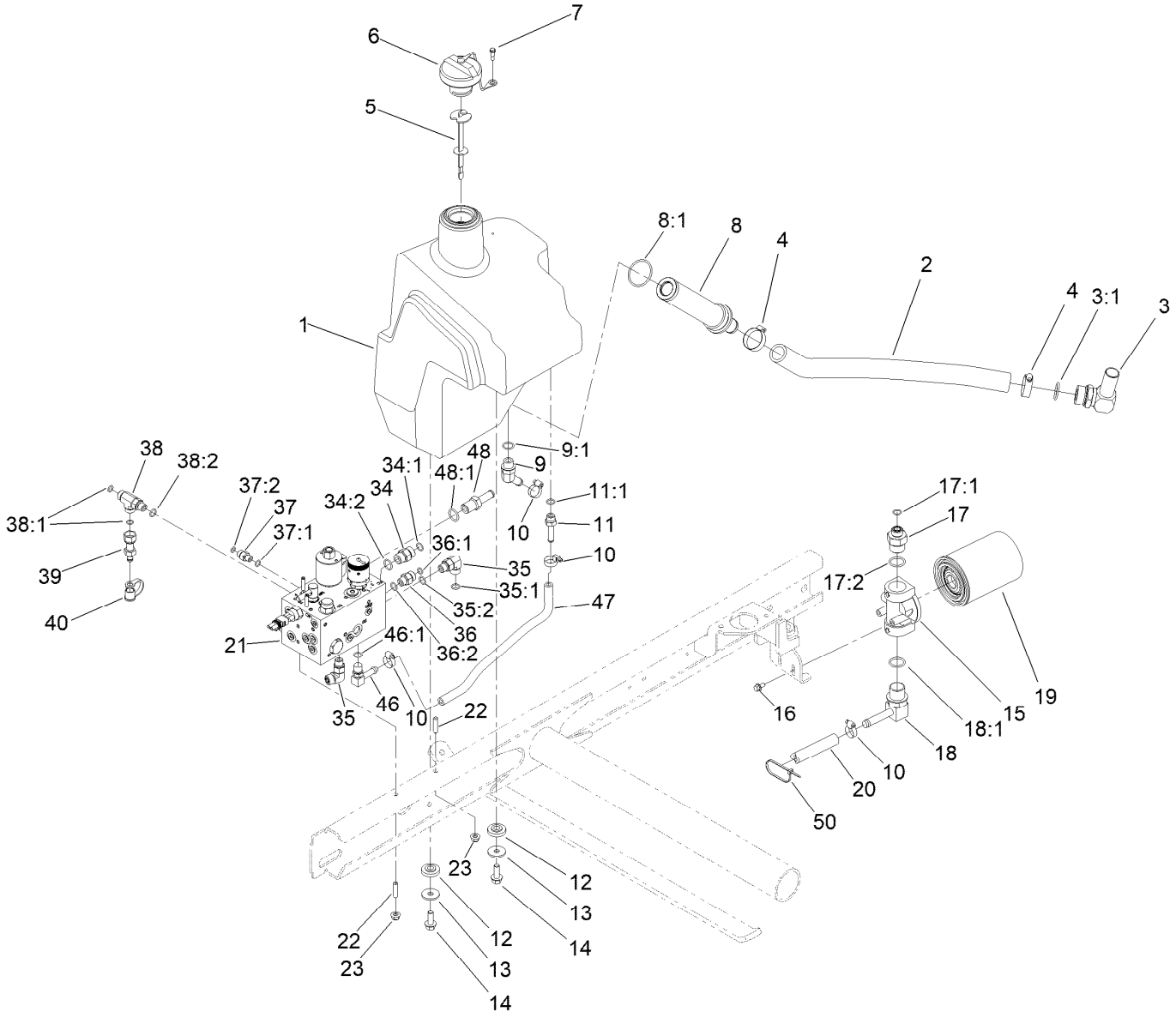


Wire Harness and Battery Assembly

Ref.	Part Number	Qty.	Description
1	122-2738	1	Harness-Wire, Main
1:10	218-578	3	Fuse-Blade, 10 Amp
1:11	109355	1	Fuse-Blade, 15 Amp
1:14	94-6710	1	Fuse-2 Amp
1:19	100-4918	1	Diode
1:22	32180-156	1	Cap-Plug, 6 Way
1:25	122-2708	1	Harness-Wire, Seat Switch
2	161-6891	1	Battery-Wet,12V,540 CCA
3	95-8853	1	Cable-Battery, Positive
4	95-8854	1	Cable-Battery, Negative
4:6		1	Bolt ASM ●
4:6:1	32180-107	1	Bolt-Clamp, Battery
4:6:2	32180-108	2	Nut-Hex Shoulder
5	3290-134	2	Screw
6	3290-148	2	Nut-HF
7	99-7435	1	Relay

Ref.	Part Number	Qty.	Description
8	32105-13	1	Screw-HWH
9	3296-2	3	Nut-Lock, NI
10	99-3441	1	Harness-Wire, Fusible Link
11	3256-78	1	Washer-Flat
12	43-5930	1	Washer-Lock, Spring
13	48-7890	1	Nut-Hex
14	161-8395-03	1	Bracket-Lmu
15	122-3876	1	Gateway-Telematics Lite
16	122-2161	1	Harness-Wire
16:3	121-8861	1	Fuse-Mini Blade, 2 Amp
16:4	32180-101	1	Cover-Fuse, Single
17	3290-126	2	Screw-HWH
19	138-8991	1	U-Bolt-Sq
20	104-8301	2	Nut-HF, NI
21	3290-378	9	Tie-Cable
22	3290-379	10	Tie-Cable

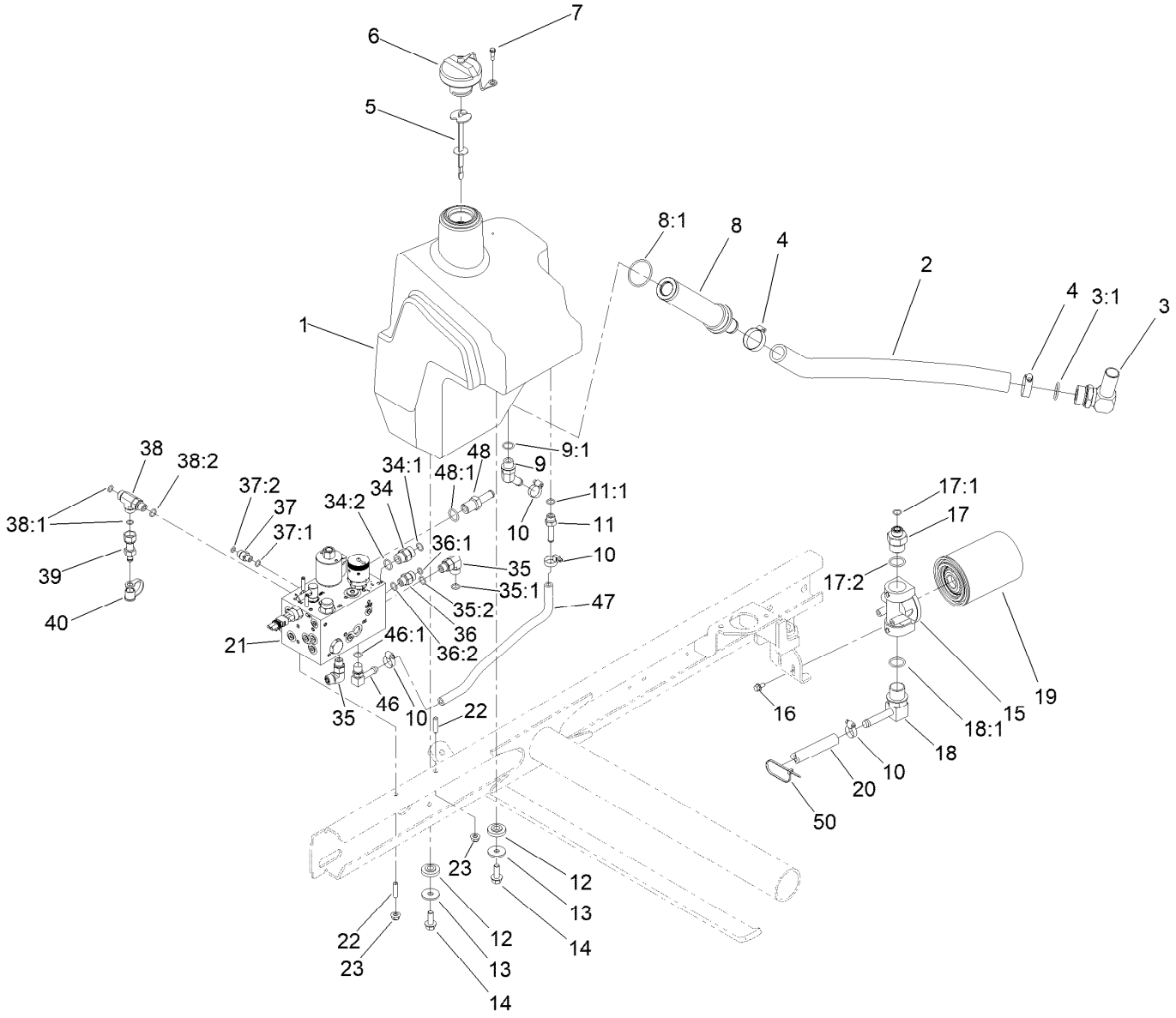
● Not serviced separately



Hydraulic Tank Assembly

Ref.	Part Number	Qty.	Description
1	104-4840	1	Tank-HYD
2	104-4845	1	Hose-Suction
3	56-9530	1	Fitting-HYD, 90 DEG
3:1	237-117	1	O-Ring
4	2412-34	2	Clamp-Hose
5	119-6968	1	Dipstick-Oil
6	93-7160	1	Cap-Oil, HYD
7	57-5420	1	Screw-Shoulder
8	104-7546	1	Tank Strainer ASM
8:1	340-136	1	O-Ring
9	354-126	1	Fitting-Elbow, 45
9:1	237-79	1	O-Ring
10	2412-36	4	Clamp-Hose
11	353-979	1	Fitting-STR
11:1	237-42	1	O-Ring
12	240-11	4	Bushing-Flange
13	63-8410	4	Washer
14	3234-11	4	Screw-HHF
15	92-5821	1	Head-Filter
16	3234-13	2	Screw-HHF
17	100-4240	1	Fitting-STR

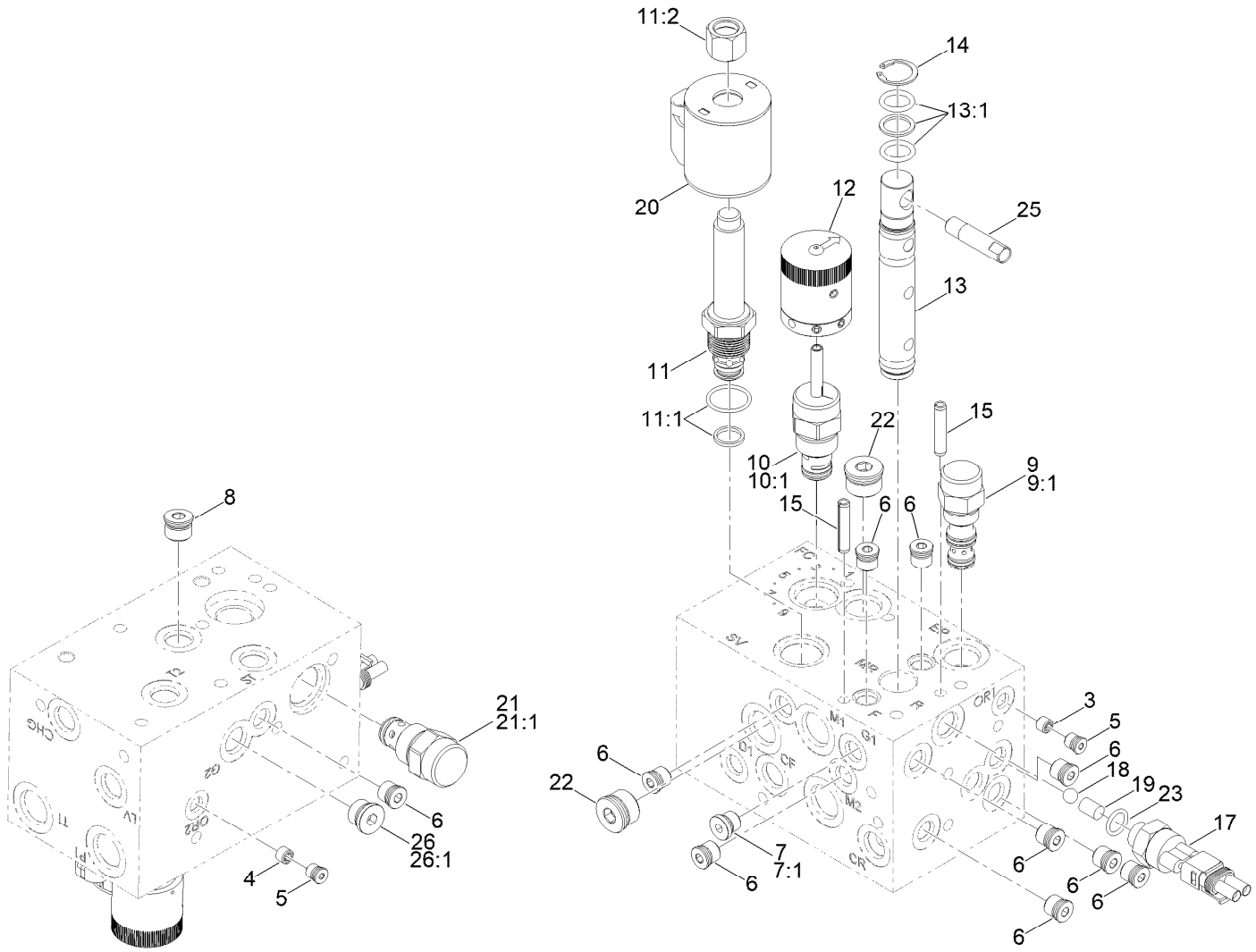
Ref.	Part Number	Qty.	Description
17:1	237-30	1	O-Ring
17:2	237-81	1	O-Ring
18	95-8814	1	Fitting-90
18:1	237-81	1	O-Ring
19	86-3010	1	Filter-Oil
20	99-3501	1	Hose
21	108-9037	1	Manifold ASM
22	104-0430	2	Stud
23	104-8300	2	Nut-HF, NI
34	340-4	3	Fitting-Straight
34:1	237-30	1	O-Ring
34:2	237-79	1	O-Ring
35	340-77	2	Fitting-Elbow, 90 DEG
35:1	237-22	1	O-Ring
35:2	237-42	1	O-Ring
36	340-2	2	Fitting-Straight
36:1	237-22	1	O-Ring
36:2	237-42	1	O-Ring
37	340-92	1	Fitting-Straight
37:1	237-78	1	O-Ring
37:2	237-21	1	O-Ring



Hydraulic Tank Assembly (continued)

Ref.	Part Number	Qty.	Description
38	340-86	1	Fitting-Tee
38:1	237-22	2	O-Ring
38:2	237-42	1	O-Ring
39	86-5480	1	Nipple-Test
40	354-79	1	Cap-Dust
46	100-4887	1	Fitting-Elbow, 90

Ref.	Part Number	Qty.	Description
46:1	237-42	1	O-Ring
47	80-7342	1	Hose-HYD
48	354-121	1	Fitting-STR
48:1	237-79	1	O-Ring
50	3290-379	2	Tie-Cable

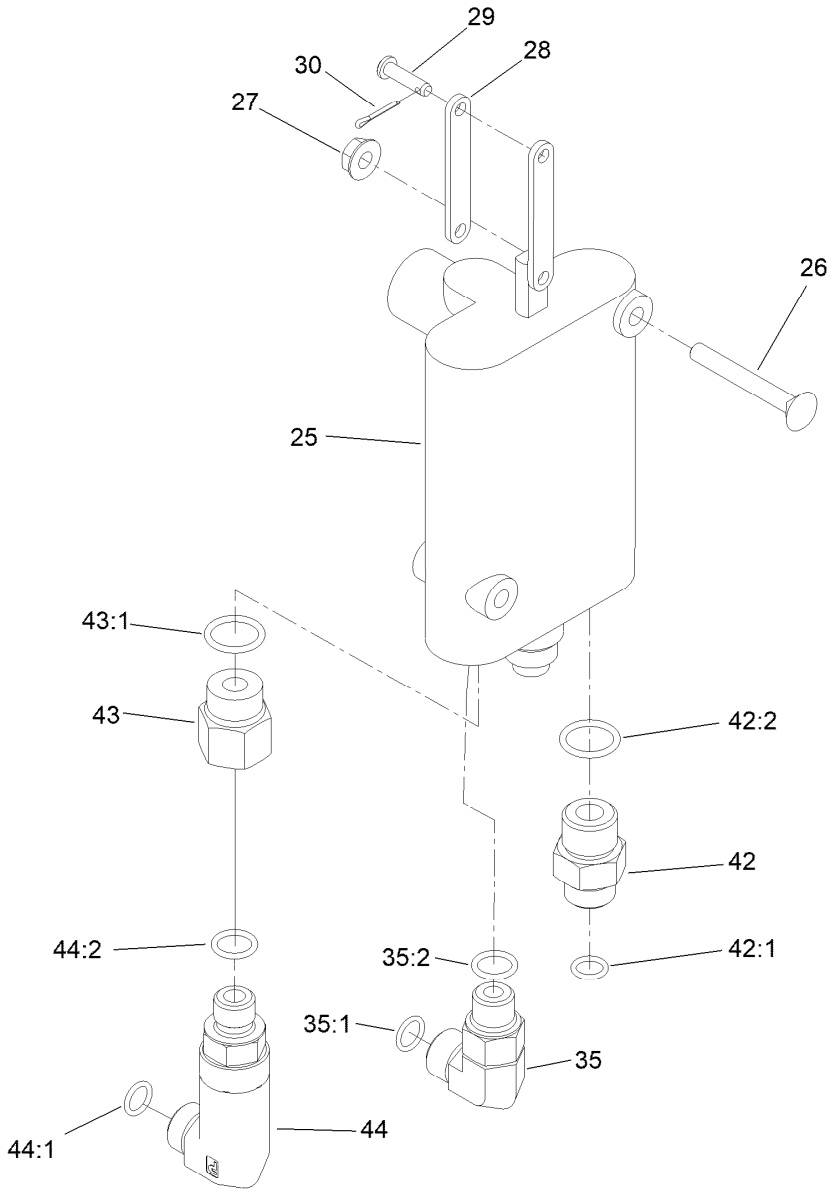


Hydraulic Manifold Assembly No. 108-9037

Ref.	Part Number	Qty.	Description
3	110-8771	1	Orifice-.020
4	110-8760	1	Orifice-.073
5	106-1024	2	Plug-Leak, Zero
6	106-1025	10	Plug-HYD
7	353-512	1	Plug
7:1	237-78	1	O-Ring
8	106-1026	1	Plug-HYD
9	110-8770	1	Logic Element
9:1	110-8773	1	Seal Kit
10	147-3068	1	Valve-Control, Manual Flow
10:1	132-6231	1	Seal Kit
11	110-8768	1	Valve-Relief, Solenoid (3000 PSI)
11:1	110-6316	1	Seal Kit
11:2	130-8180	1	Nut-Coil (9/16-24 Unef-2B)
12	110-8767	1	Rotary Handle ASM

Ref.	Part Number	Qty.	Description
13	117-0108	1	Spool-Rotary
13:1	117-0109	1	Seal Kit
14	112-6532	2	Ring-Retaining
15	112-6531	2	Pin-Spring
17	72-4310	1	Switch-Ball
18	117-4605	1	Ball-SS
19	120-1650	1	Pin
20	110-6344	1	Coil-12V, DC
21	110-8759	1	Valve-Relief
21:1	110-8772	1	Seal Kit ●
22	106-1027	2	Plug
23	110-8757	1	O-Ring
25	110-8758	1	Handle-Spool
26	353-508	1	Plug-HH
26:1	237-42	1	O-Ring

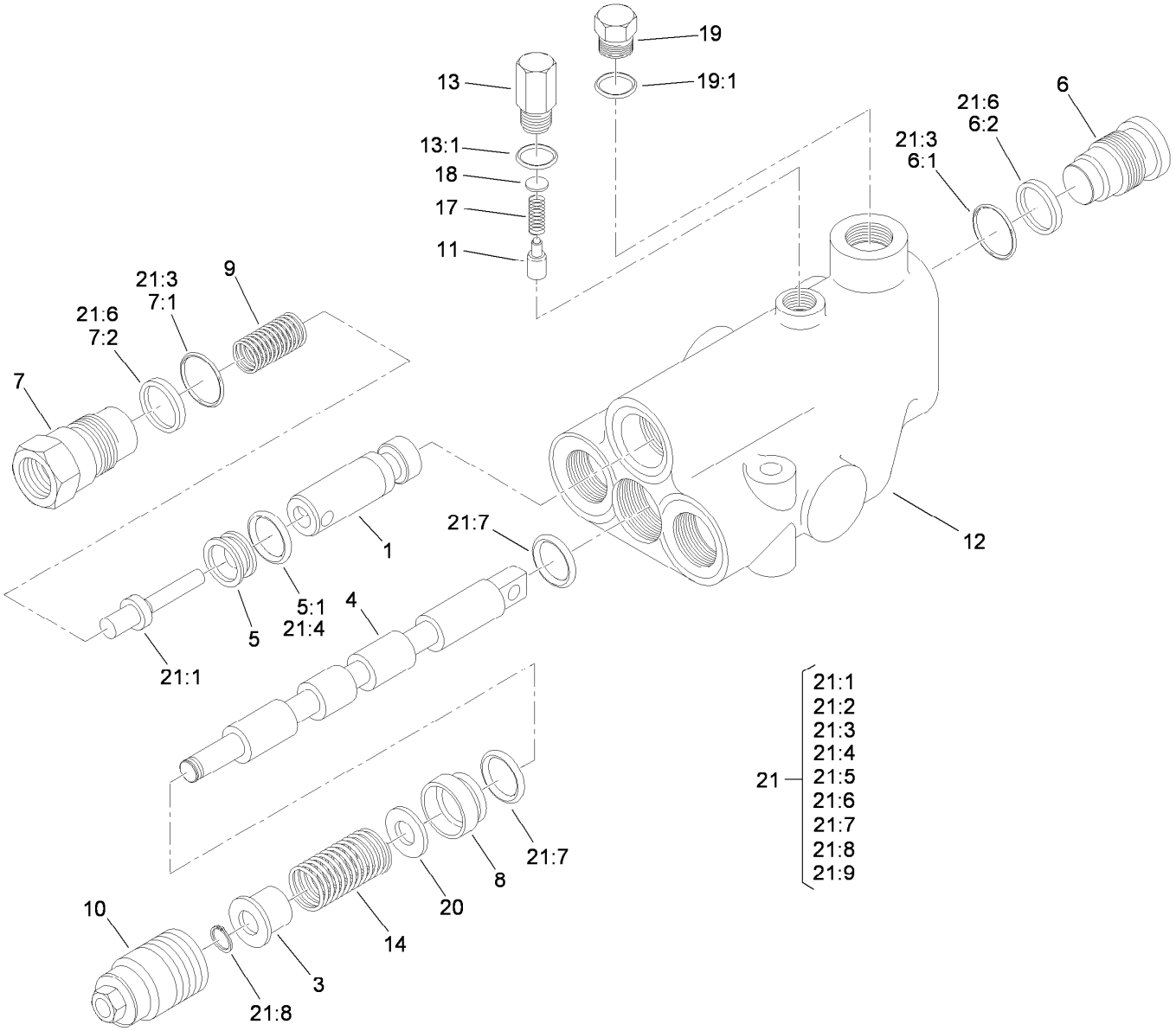
● Not illustrated



Control Valve Assembly

Ref.	Part Number	Qty.	Description
25	95-8689	1	Single Spool Control Valve ASM
26	3230-33	2	Screw-CARR
27	32128-33	2	Nut-HF
28	95-8634	2	Link
29	283-16	2	Pin-Clevis
30	3272-1	2	Pin-Cotter
35	340-77	1	Fitting-Elbow, 90 DEG
35:1	237-22	1	O-Ring

Ref.	Part Number	Qty.	Description
35:2	237-42	1	O-Ring
42	340-3	1	Fitting-Straight
42:1	237-22	1	O-Ring
42:2	237-79	1	O-Ring
43	353-397	1	Reducer-Adapter
43:1	237-79	1	O-Ring
44	145-2645	1	Fitting-Elbow 90 Long
44:1	237-22	1	O-Ring
44:2	237-42	1	O-Ring

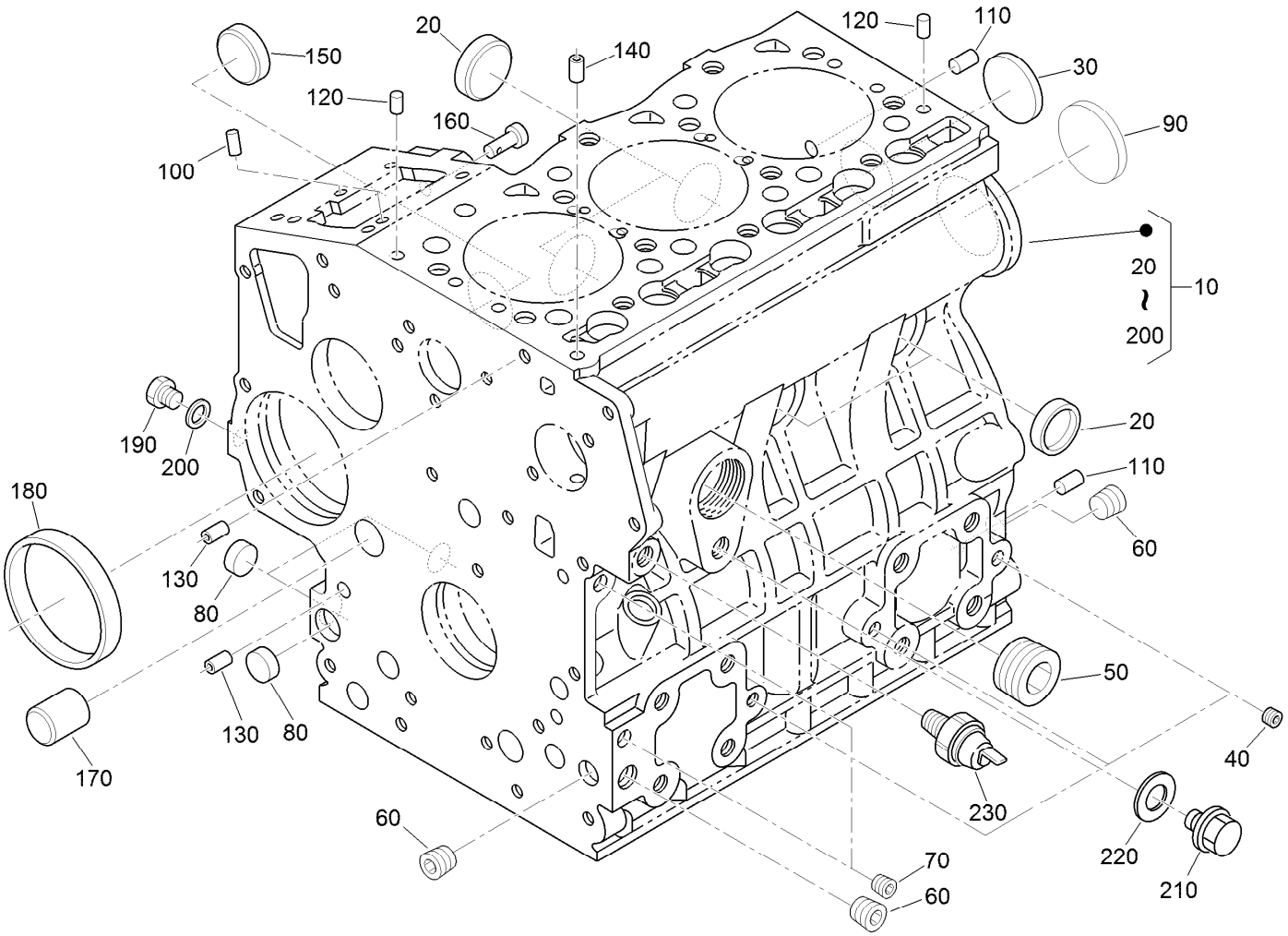


Single Spool Control Valve Assembly No. 95-8689

Ref.	Part Number	Qty.	Description
1	99-3586	1	Plunger
3	58-6310	1	Spacer
4		1	Spool ●
5	58-6330	1	Seat
5:1	58-6340	1	O-Ring
6	58-6350	1	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	69-1800	1	Plug ASM
7:1	60-5720	1	O-Ring
7:2	58-6370	1	Washer
8	58-6400	1	Bushing
9	69-1810	1	Spring
10	58-6420	1	Cap
11	99-3585	1	Detent-Plunger
12		1	Body ●
13	99-3588	1	Plug ASM

Ref.	Part Number	Qty.	Description
13:1	60-6410	1	O-Ring
14	99-3531	1	Spring
17	99-3587	1	Spring
18	60-6450	1	Disc
19	353-989	1	Plug-Hex, Hollow
19:1	237-42	1	O-Ring
20	65-2770	1	Washer
21	99-3589	1	Seal Kit
21:1	58-6290	2	Poppet
21:2	58-6320	1	Wiper
21:3	60-5720	2	O-Ring
21:4	58-6340	2	O-Ring
21:5	93-6314	1	O-Ring
21:6	58-6370	2	Washer
21:7	58-6450	2	O-Ring
21:8	58-6460	1	Ring-Retaining
21:9		1	O-Ring ●

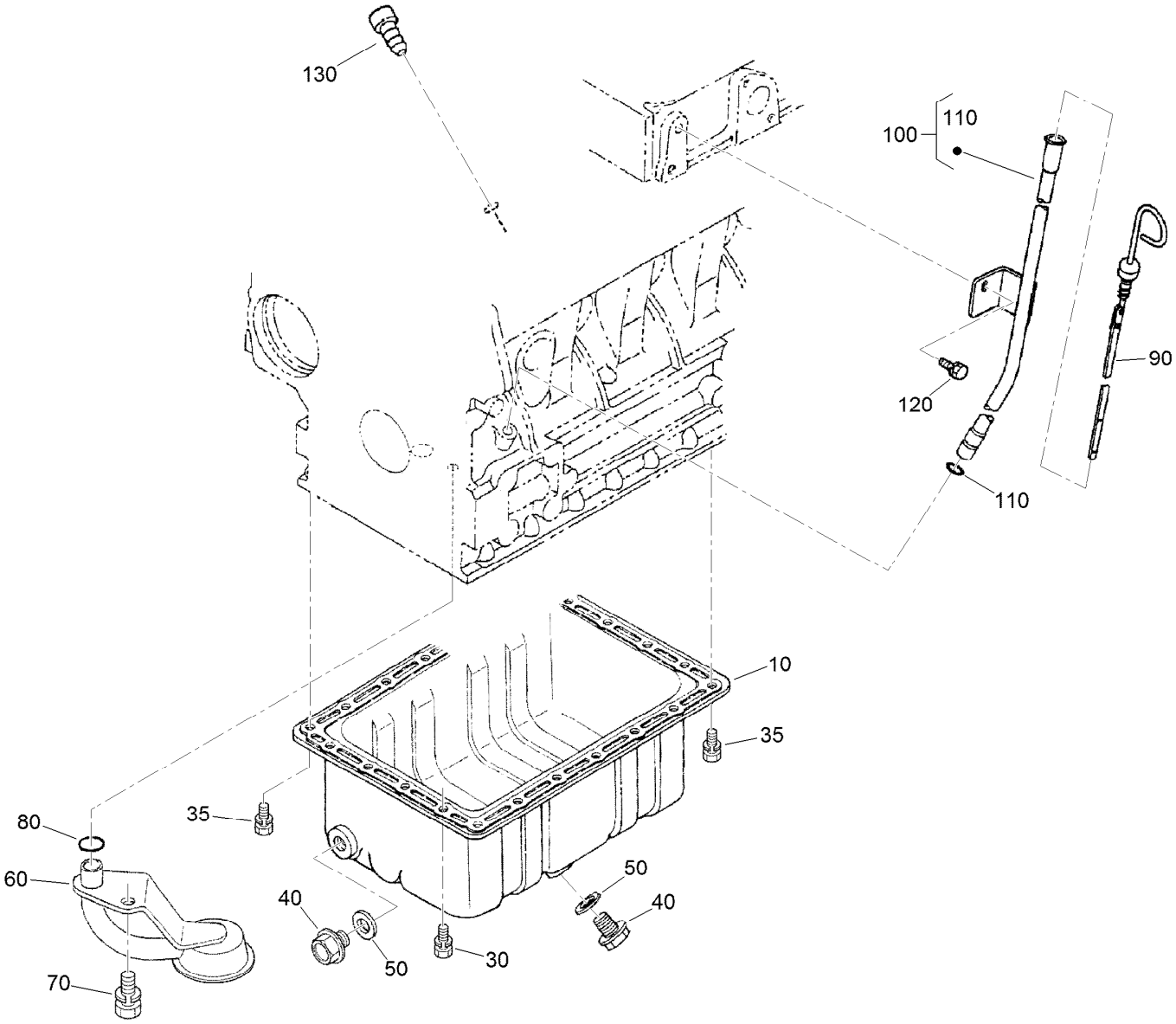
● Not serviced separately



Crankcase Assembly

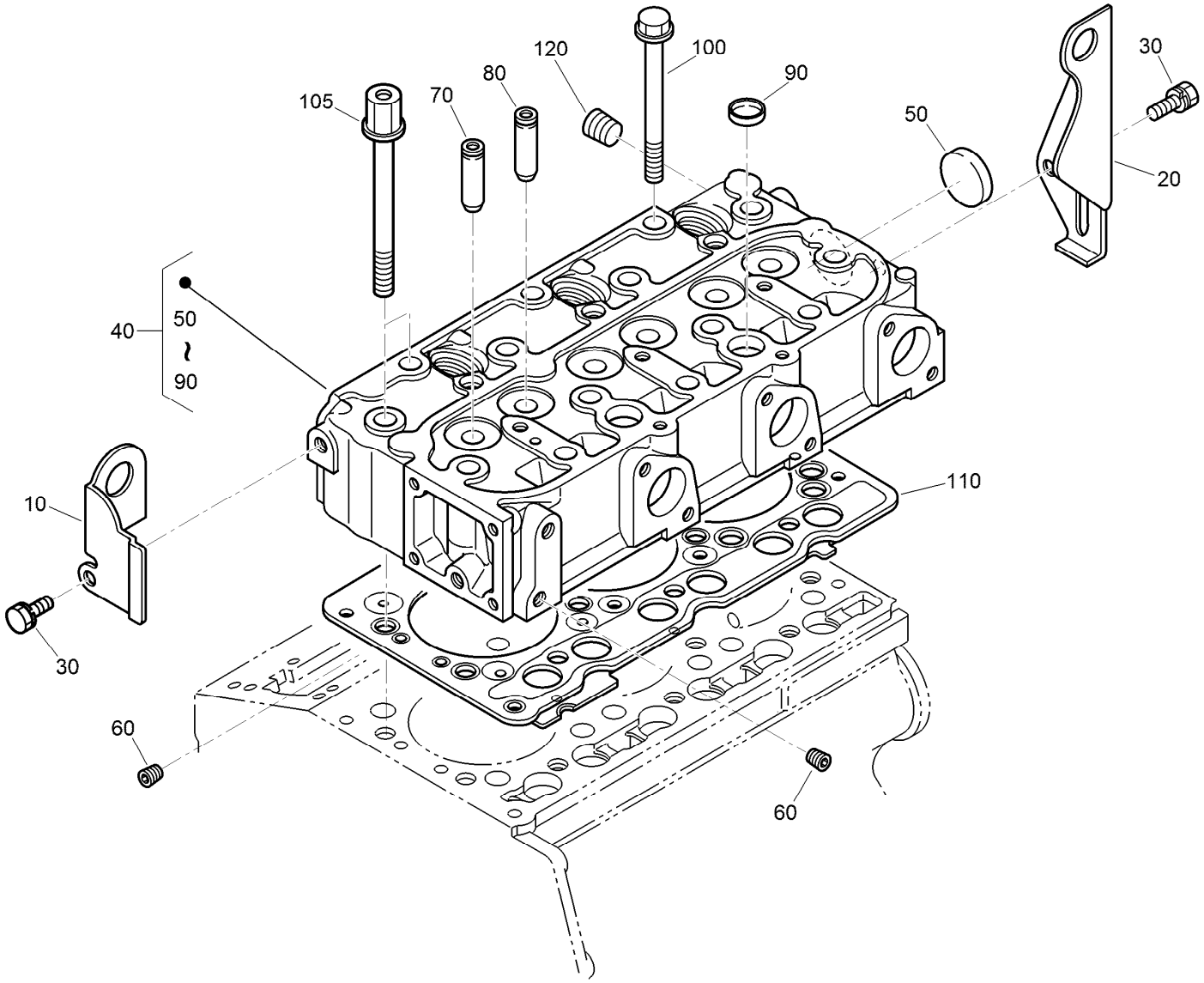
Ref.	Part Number	Qty.	Description
10	115-3443	1	Crankcase ASM
20	98-9398	4	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-9687	3	Plug
50	105-3779	1	Plug
60	98-9597	3	Plug
70	98-7487	2	Plug
80	98-9379	3	Plug-Expansion
90	98-9668	1	Plug-Expansion
100	98-9375	2	Pin-Straight
110	98-9377	2	Pin-Straight
120	98-9376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



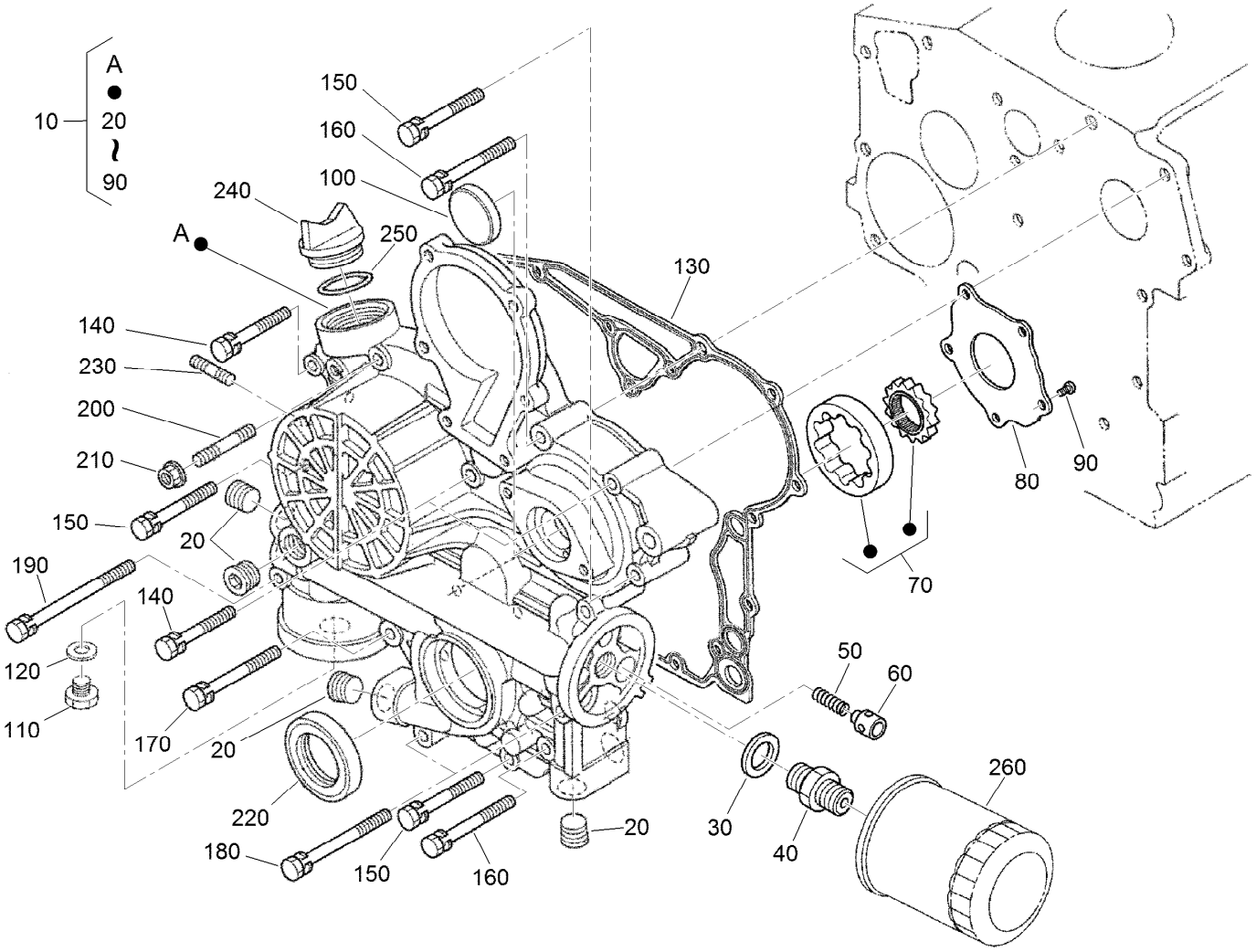
Oil Pan and Dipstick Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9685	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	98-9670	1	Gauge-Oil
100	98-9672	1	Oil Gauge Guide ASM
110	98-9722	1	O-Ring
120	100-9195	1	Bolt
130	110-3720	1	Plug-Gauge, Oil



Cylinder Head Assembly

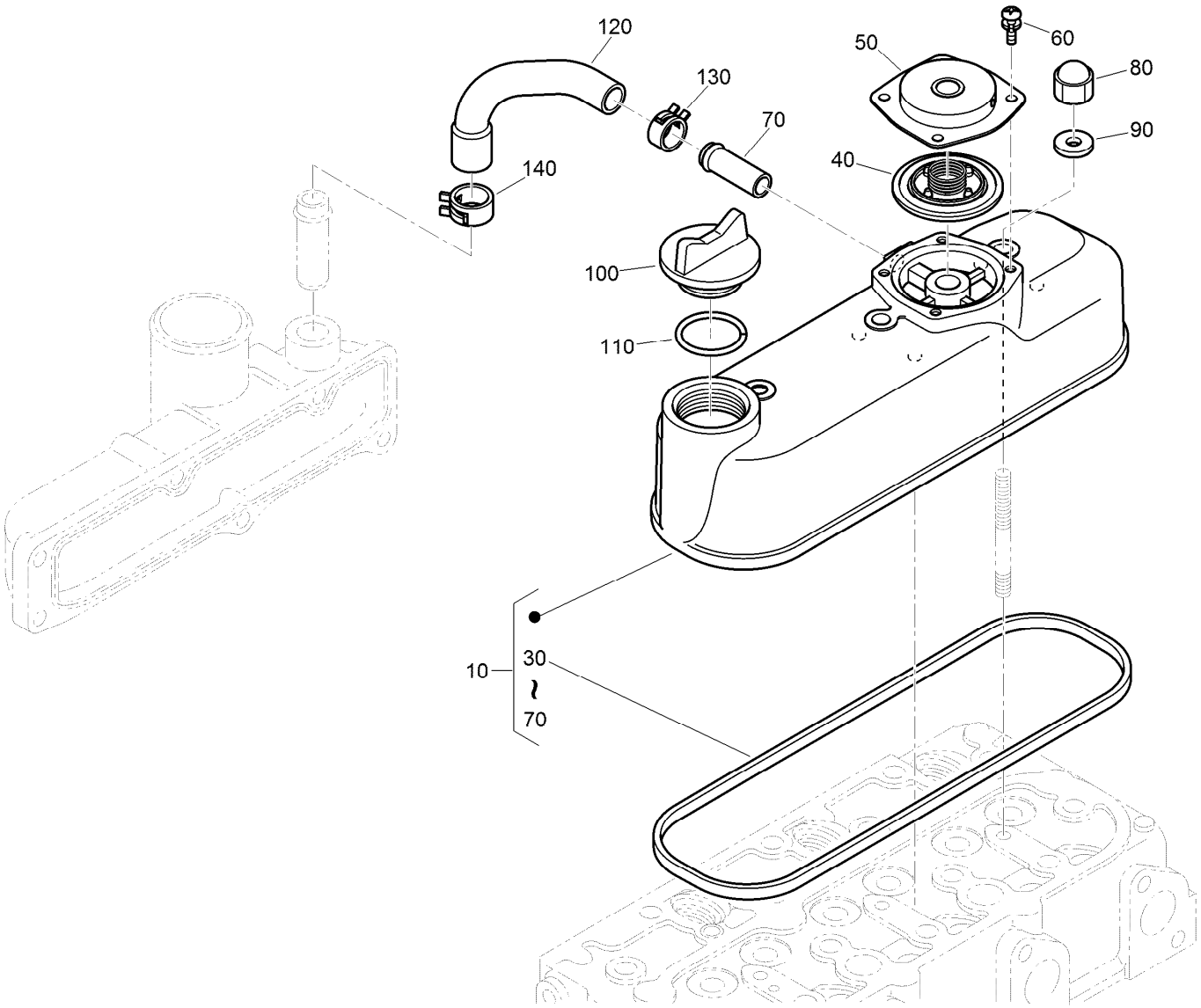
Ref.	*Part Number*	*Qty.*	*Description*
10	130-1231	1	Hook-Engine
20	98-9478	1	Hook-Engine
30	100-9195	2	Bolt
40	138-6997	1	Cylinder Head ASM
50	105-3705	1	Cap-Sealing
60	98-9687	2	Plug
70	107-9066	3	Guide-Valve, Inlet
80	107-9067	3	Guide-Valve, Exhaust
90	98-9389	2	Cap-Sealing
100	98-9479	12	Bolt-Head, Cylinder
105	98-9647	2	Bolt-Head, Cylinder
110	108-6573	1	Gasket-Head, Cylinder
120	98-9444	1	Plug



Gear Case and Oil Filter Cartridge Assembly

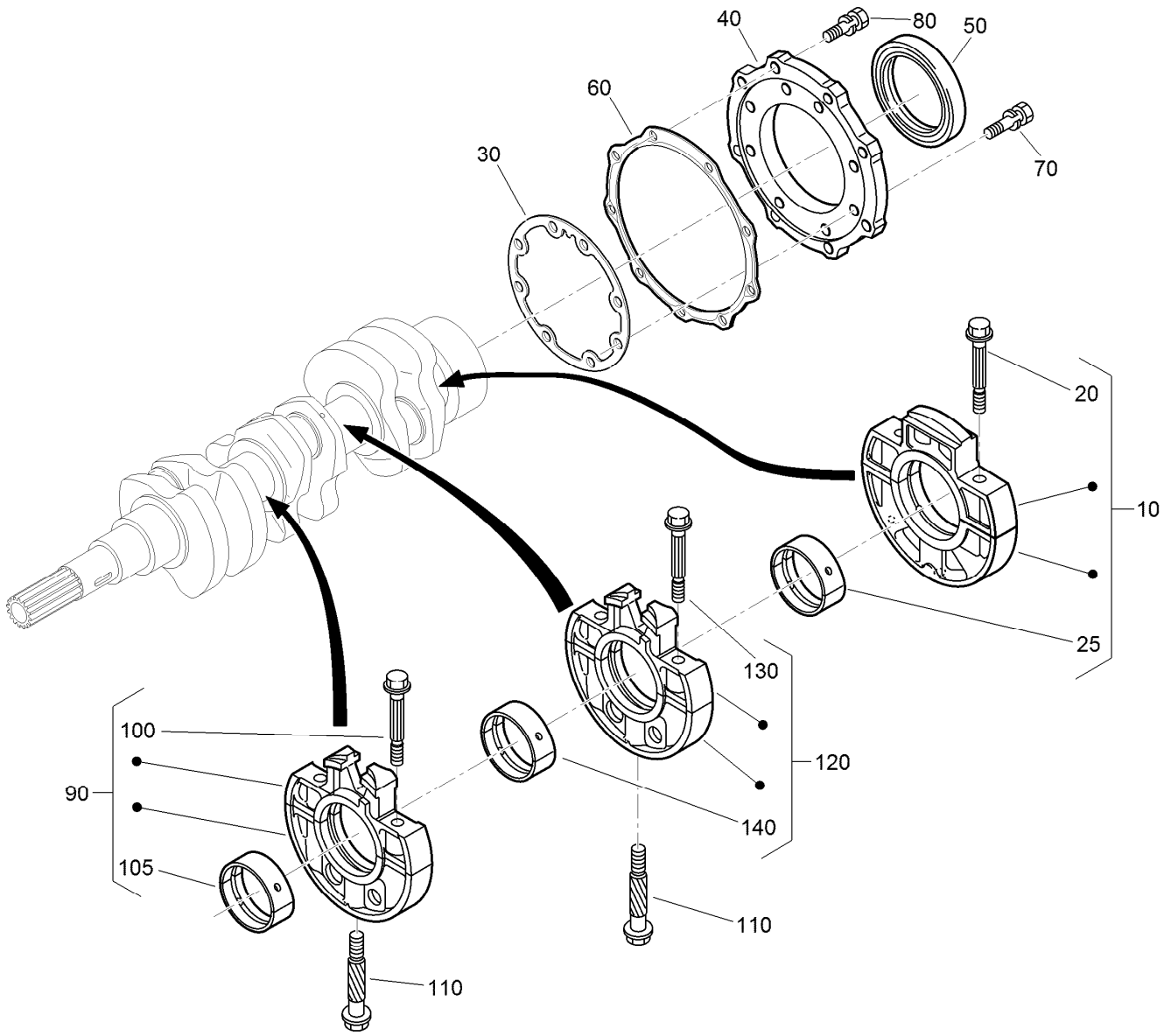
Ref.	Part Number	Qty.	Description
10	115-3442	1	Comp Gear Case
20	127-0425	5	Plug
30	98-7562	1	Washer-Plain
40	98-9388	1	Joint-Pipe
50	130-1511	1	Spring
60	130-1510	1	Valve-Relief
70	130-1508	1	Rotor ASM
80	130-1509	1	Cover-Pump, Oil
90	130-1164	5	Screw-Binding
100	99-3515	1	Plug-Gearcase
110	99-3450	1	Plug
120	99-3451	1	Plug-Packing
130	98-9633	1	Gasket-Case, Gear

Ref.	Part Number	Qty.	Description
140	100-1765	3	Bolt
150	125-9063	4	Bolt-Sems
160	98-9356	2	Bolt
170	98-9437	1	Bolt
180	98-9586	2	Bolt
190	99-3511	1	Bolt
200	105-3709	1	Stud
210	100-2203	1	Nut-Flange
220	119-8038	1	Seal-Oil
230	105-3710	2	Stud
240	107-9075	1	Plug-Filler, Oil
250	99-3446	1	O-Ring
260	127-0511	1	Filter-Oil



Cylinder Head Cover Assembly

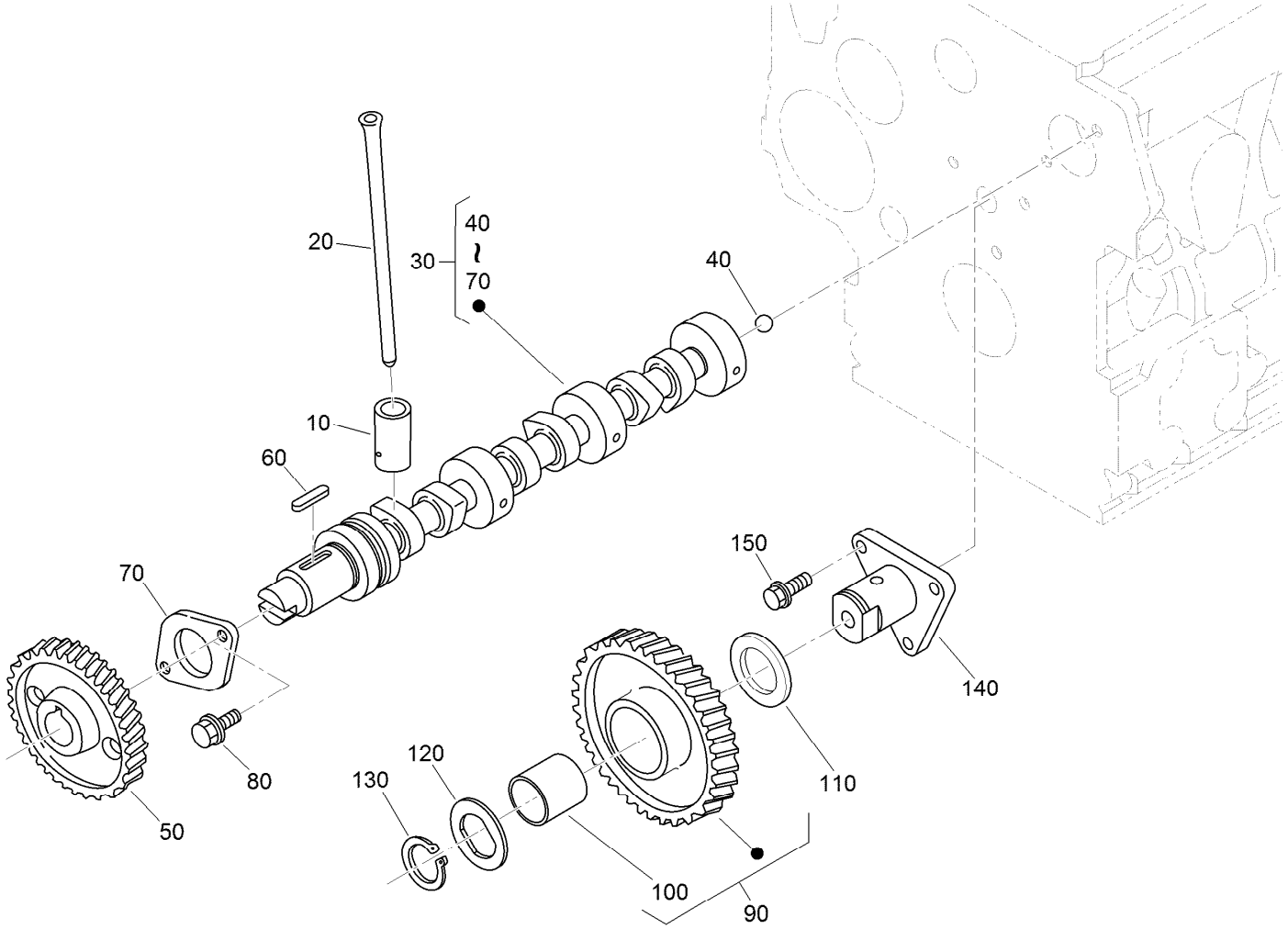
Ref.	*Part Number*	*Qty.*	*Description*
10	130-1372	1	Cylinder Head Cover ASM
30	98-9615	1	Gasket-Cover, Head
40	110-3715	1	Valve-Breather
50	110-3714	1	Cover-Breather
60	98-9364	4	Screw (With Washer)
70	98-7766	1	Pipe-Return, Water
80	98-9455	3	Nut-Cap
90	98-9454	3	Gasket
100	107-9075	1	Plug-Filler, Oil
110	99-3446	1	O-Ring
120	107-7836	1	Tube-Breather
130	108-2859	1	Clamp-Hose
140	108-2860	1	Clamp-Hose



Main Bearing Case Assembly

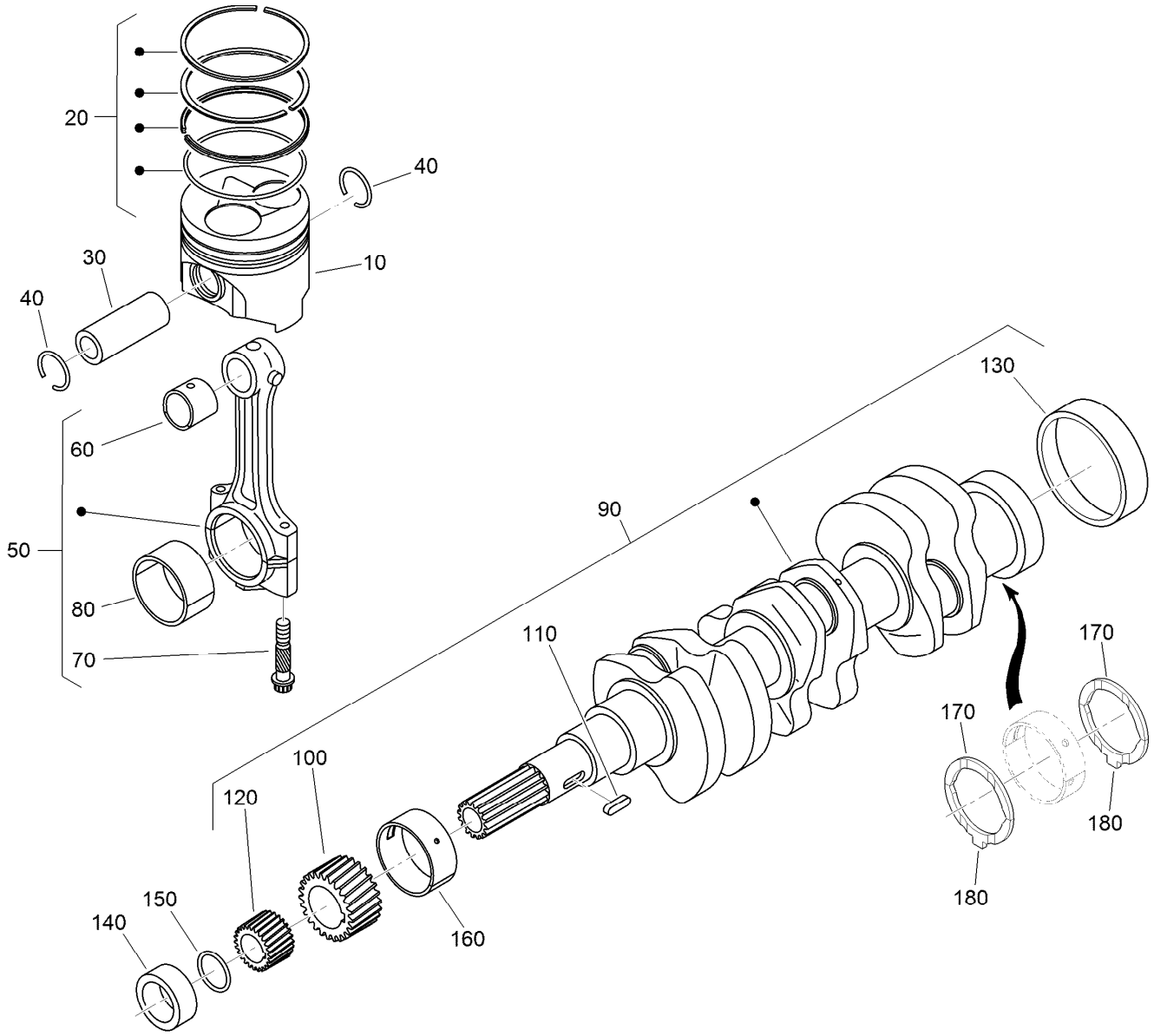
Ref.	Part Number	Qty.	Description
10	112-7026	1	Wheel Bearing Case ASM
20	98-9484	2	Bolt-Case, Bearing
25	115-4121	1	Metal-Crankshaft (STD)
25	112-7039	1	Metal-Crankshaft (0.2Mm)
25	112-7040	1	Metal-Crankshaft (-0.4Mm)
30	127-0440	1	Gasket-Case, Bearing
40	112-7046	1	Cover-Case, Bearing
50	112-0180	1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

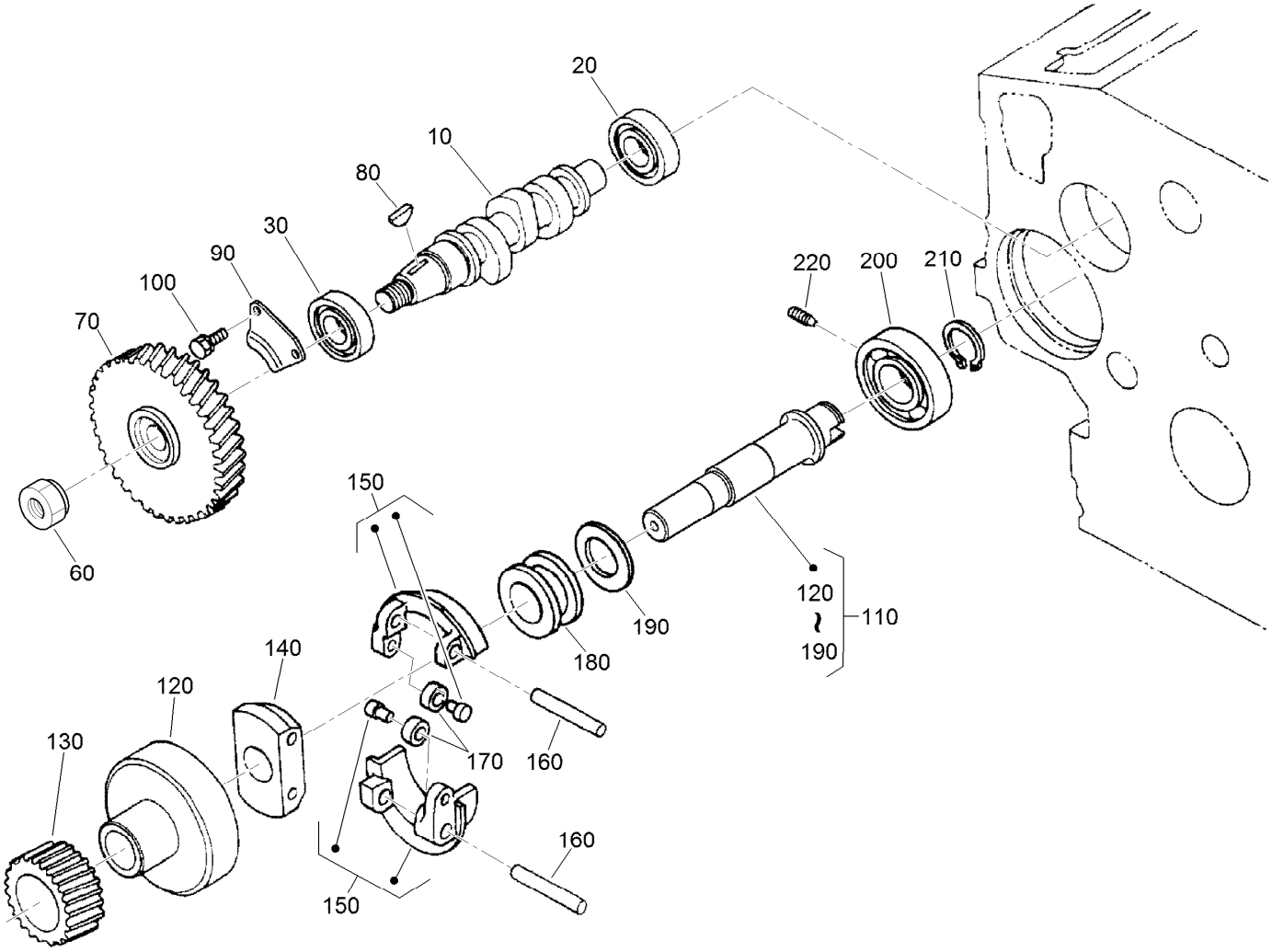
Ref.	*Part Number*	*Qty.*	*Description*
10	112-0185	6	Tappet
20	127-0421	6	Rod-Push
30	130-1505	1	Camshaft ASM
40	110-3729	1	Ball
50	120-3116	1	Camshaft ASM
60	98-9378	1	Key-Feather
70	98-9510	1	Stopper-Camshaft
80	98-7692	2	Bolt
90	117-7584	1	Idler Gear ASM
100	117-7585	1	Bushing-Gear, Idle
110	98-9535	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 (STD)
10	130-1549	3	Piston (+0.50MM)
20	130-1506	3	Piston Ring ASM (STD)
20	130-1507	3	Piston Ring ASM (+0.50MM)
30	98-9513	3	Pin-Piston
40	98-9514	6	Circlip-Pin, Piston
50	117-7586	3	Connecting Rod ASM
60	115-3014	3	Bushing-Pin, Piston
70	98-9517	6	Bolt-Rod, Connecting
80	98-9553	3	Bearing-Rod (STD)
80	98-9519	3	Bearing-Rod (-0.2MM)
80	117-7588	3	Metal-Crankpin (-0.4MM)
90	130-1375	1	Crankshaft ASM
100	117-7561	1	Gear-Crankshaft

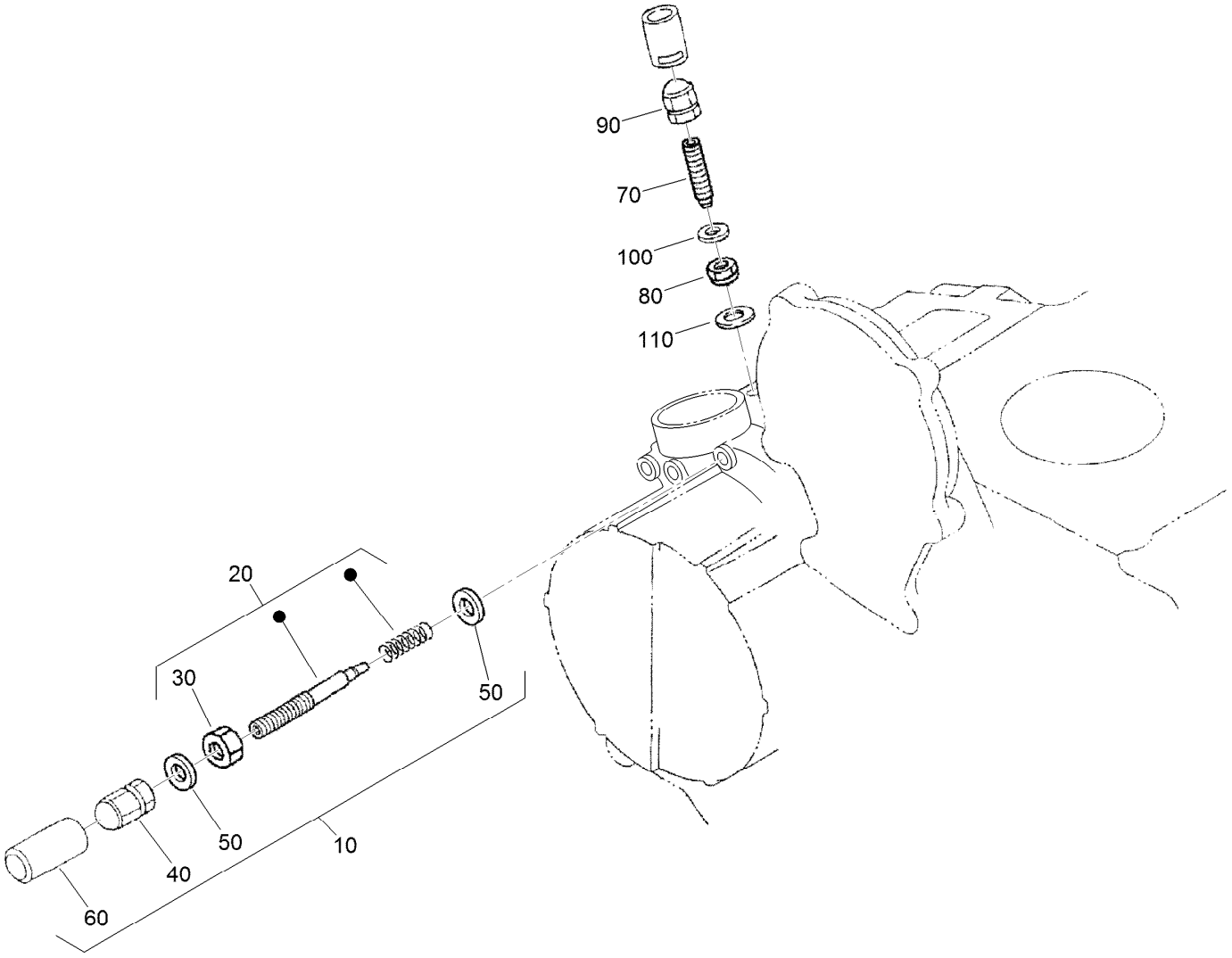
Ref.	Part Number	Qty.	Description
110	98-9666	1	Key
120	127-0445	1	Gear-Drive, Oil Pump
130	98-9522	1	Sleeve-Crankshaft
140	127-0444	1	Collar-Crankshaft
150	105-3783	1	O-Ring
160	112-7005	1	Bearing-Main (STD)
160	98-9528	1	Bearing-Main (-0.2MM)
160	130-1274	1	Metal-Crankshaft (-0.40Mm)
170	98-9413	2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

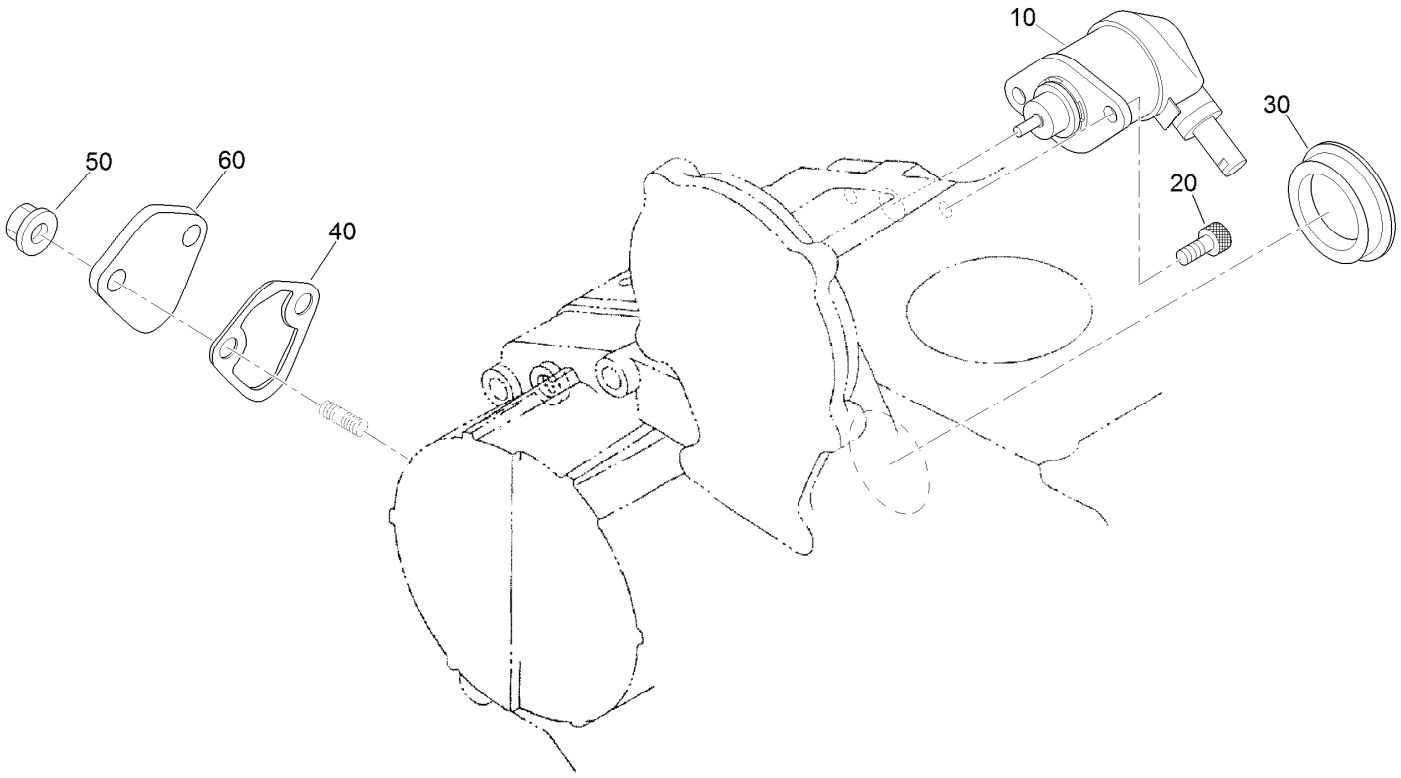
Ref.	Part Number	Qty.	Description
10	98-9459	1	Camshaft-Fuel
20	107-9077	1	Bearing-Ball
30	107-9078	1	Bearing-Ball
60	130-1512	1	Nut
70	130-1378	1	Gear-Injection Pump
80	98-9595	1	Key-Woodruff
90	98-9511	1	Stopper-Fuel, Camshaft
100	98-7692	2	Bolt
110	130-1255	1	Governor Shaft ASM
120	98-9562	1	Holder-Gear, Governor

Ref.	Part Number	Qty.	Description
130	98-9673	1	Gear-Governor
140	98-9561	1	Holder-Weight, Governor
150	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



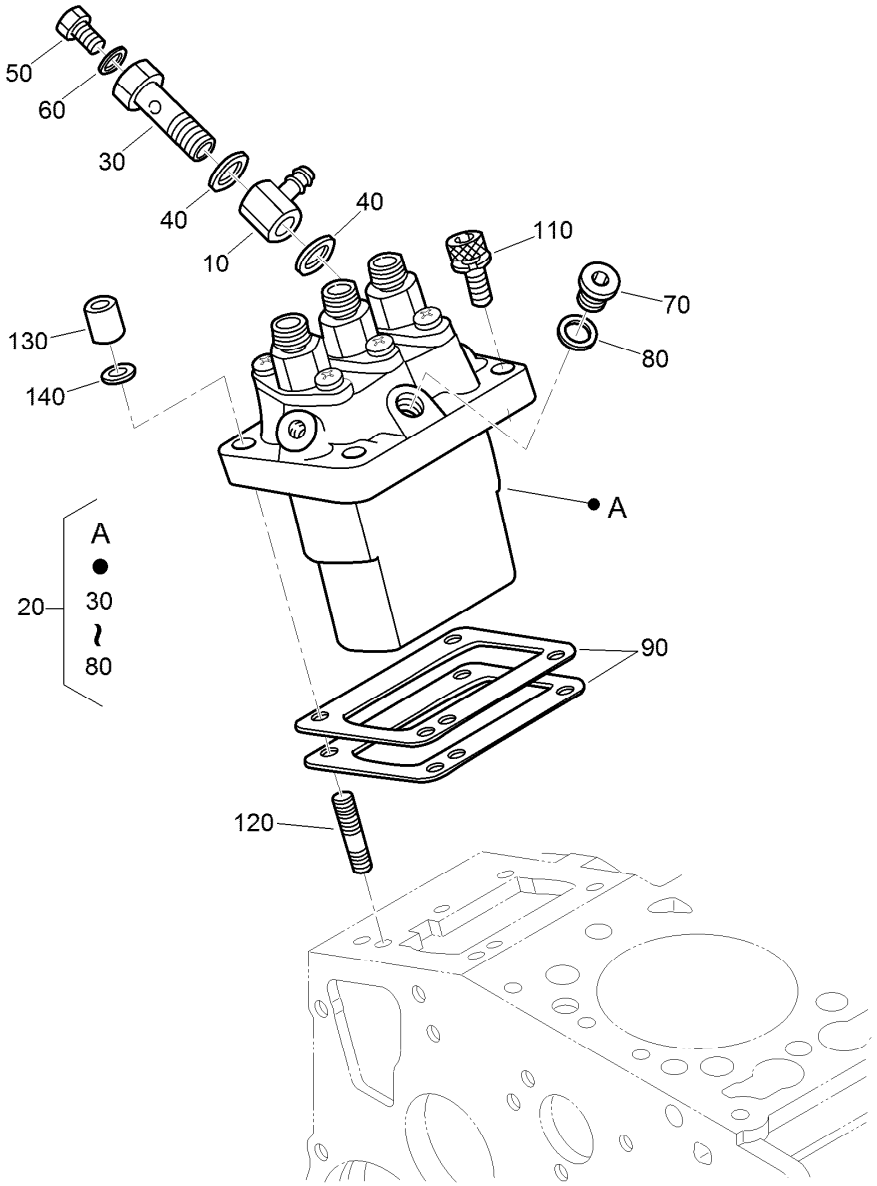
Idle Apparatus Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-7838	1	Apparatus-Idling
20	130-1253	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



Stop Solenoid and Fuel Pump Cover Assembly

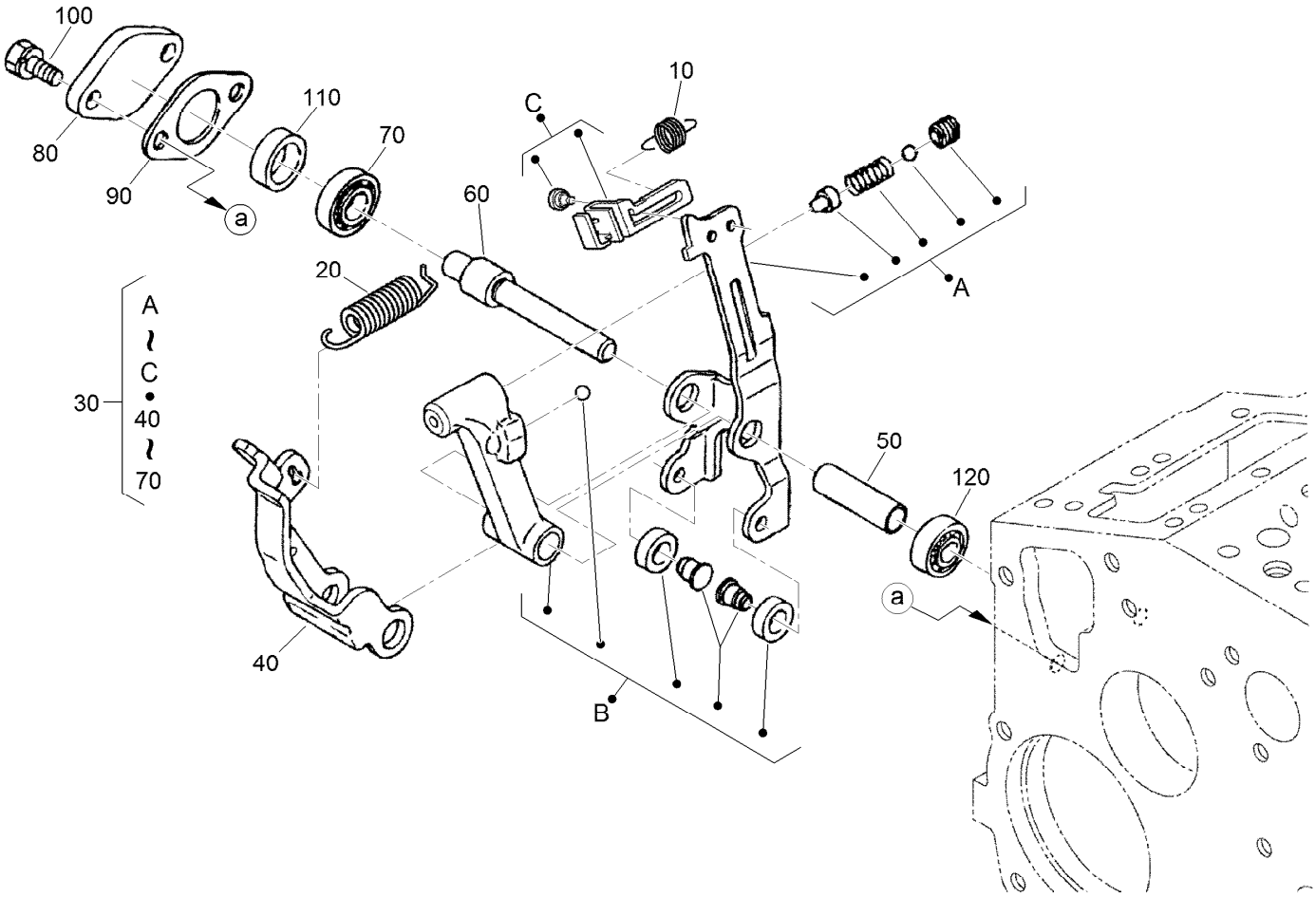
Ref.	*Part Number*	*Qty.*	*Description*
10	104-5155	1	Solenoid-Stop
20	130-1155	2	Screw-HSH
30	99-3514	1	Cover
40	117-7562	1	Gasket-Pump, Fuel
50	100-2203	2	Nut-Flange
60	112-7016	1	Cover-Pump



Injection Pump Assembly

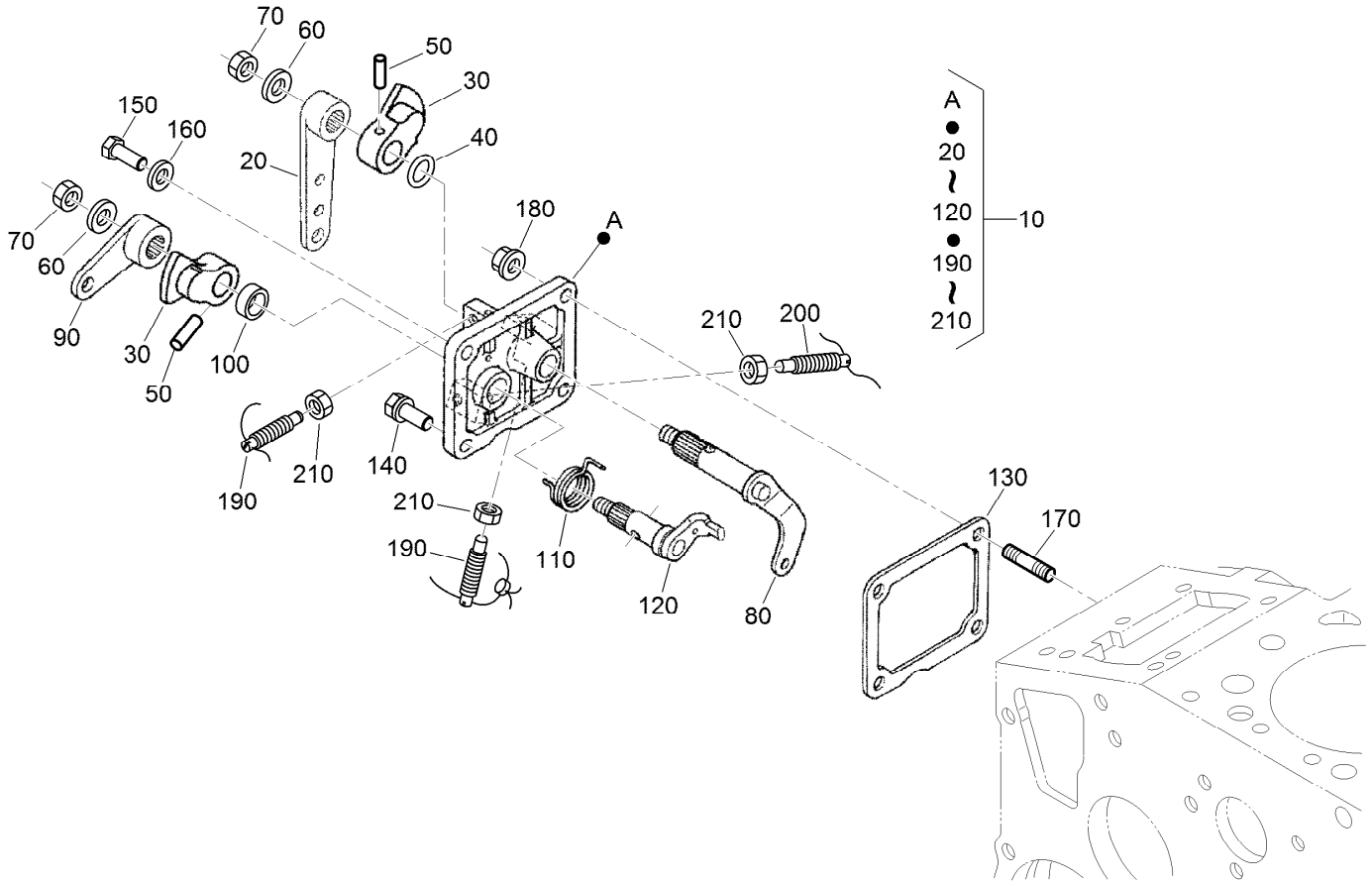
Ref.	Part Number	Qty.	Description
10	98-9596	1	Joint-Eye
20	98-9643	1	Injection Pump ASM
30	98-9464	1	Bolt-Joint
40	98-9445	2	Gasket
50	98-9430	1	Screw
60	98-9446	1	Gasket
70	98-9466	1	Plug
80	98-9451	1	Gasket
90	98-9456	1	Shim-Injection (0.20MM)

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

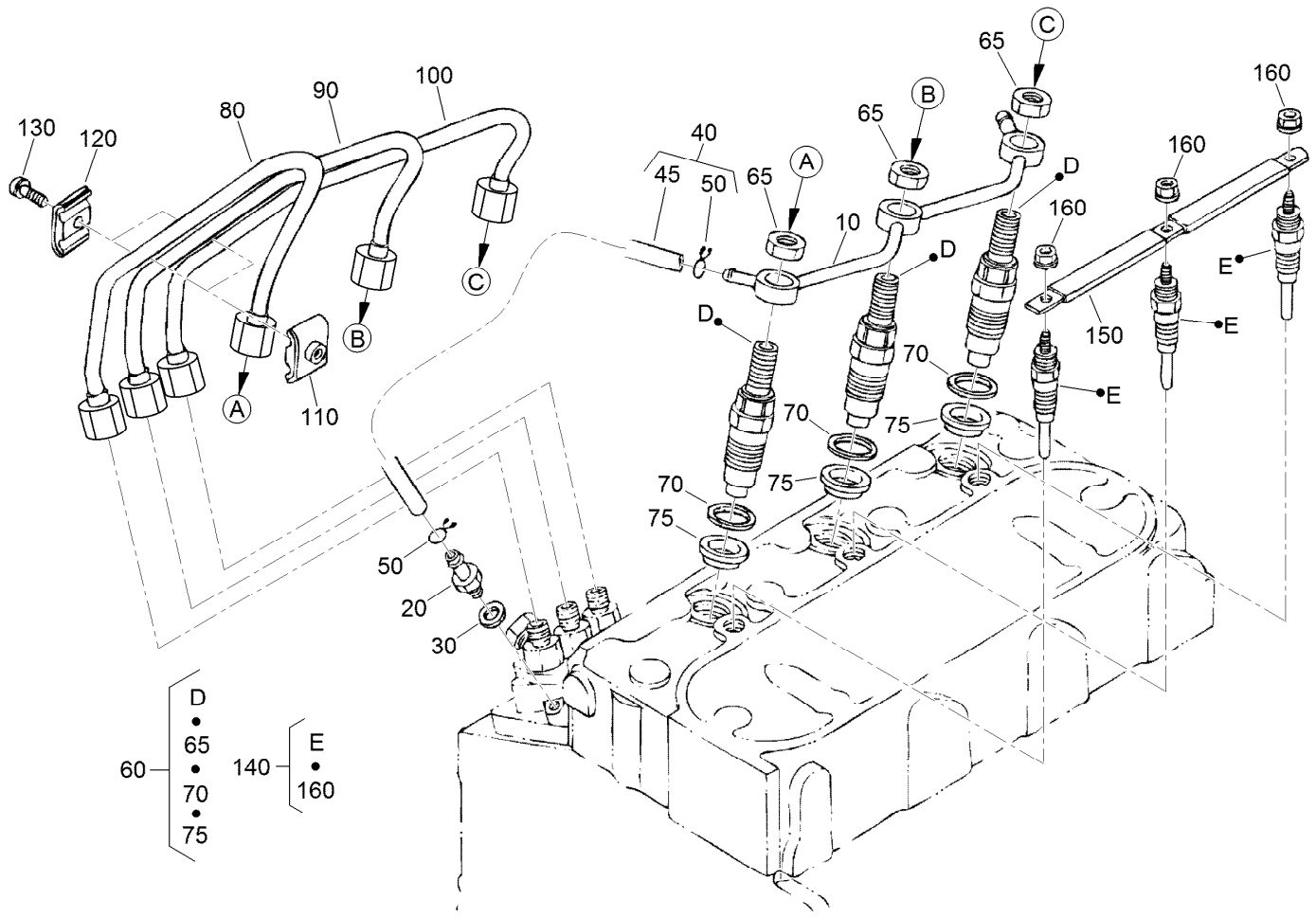
Ref.	*Part Number*	*Qty.*	*Description*
10	105-3786	1	Spring-Start
20	107-7839	1	Spring-Governor
30	107-7840	1	Fork Lever ASM
40	107-9084	1	Lever-Fork
50	107-9085	1	Shaft-Lever, Fork
60	107-9086	1	Shaft-Lever, Fork
70	98-9570	1	Bearing-Miniaturize
80	115-4122	1	Cover-Shaft, Fork Lever
90	98-9682	1	Gasket
100	98-9350	2	Bolt
110	98-9567	1	Collar
120	98-9571	1	Bearing-Miniaturize



Speed Control Plate Assembly

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

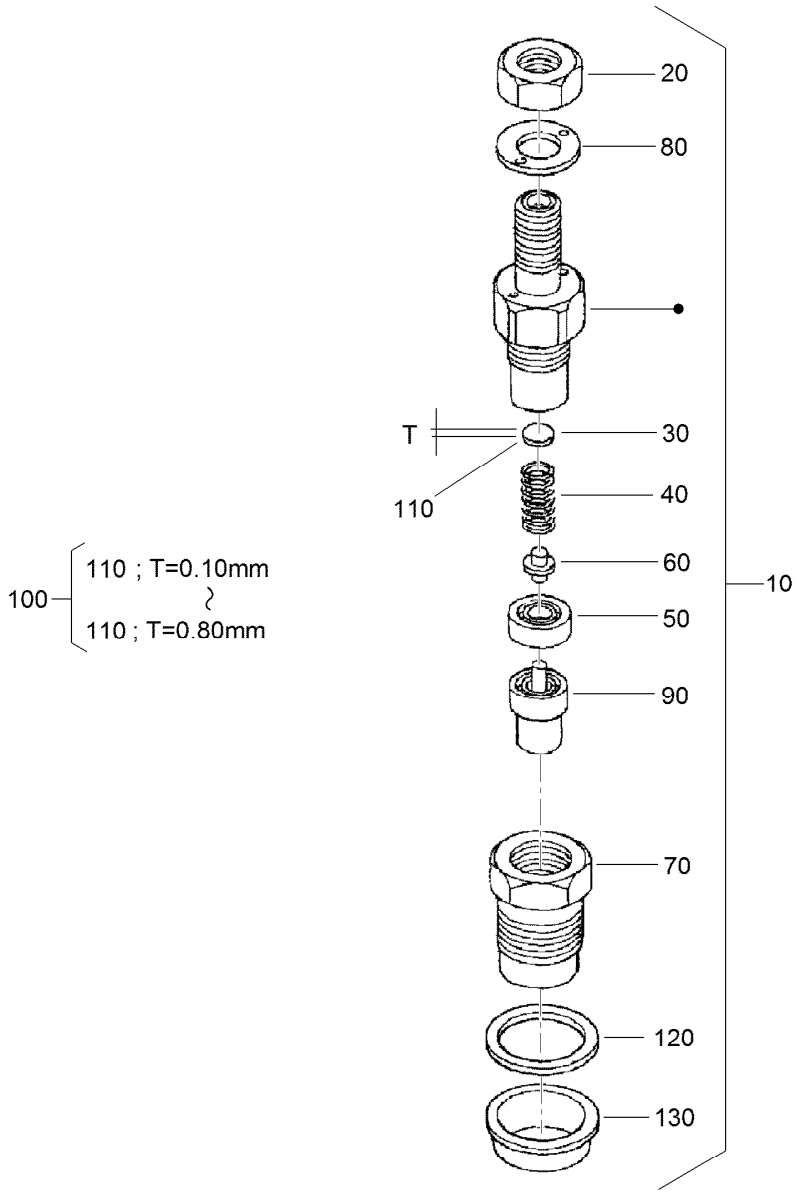
Ref.	Part Number	Qty.	Description
120	98-9664	1	Shaft-Lever, Stop
130	98-9637	1	Gasket
140	98-7692	1	Bolt
150	127-0401	1	Bolt-Hex
160	98-7654	1	Gasket
170	105-3710	2	Stud
180	100-2203	2	Nut-Flange
190	117-7565	2	Bolt-Adjusting
200	117-7566	1	Bolt-Adjusting
210	98-7572	3	Nut



Nozzle Holder and Glow Plug Assembly

Ref.	Part Number	Qty.	Description
10	98-9620	1	Overflow Pipe ASM
20	98-9431	1	Screw-Bleeder, Air
30	98-7654	1	Gasket
40	98-9420	1	Overflow Pipe ASM
45	112-0182	1	Pipe-Overflow
50	98-7671	2	Clip-Pipe
60	115-3018	3	Nozzle Holder Kit
65	121-2411	3	Nut
70	98-7676	3	Gasket
75	98-7677	3	Seal-Heat

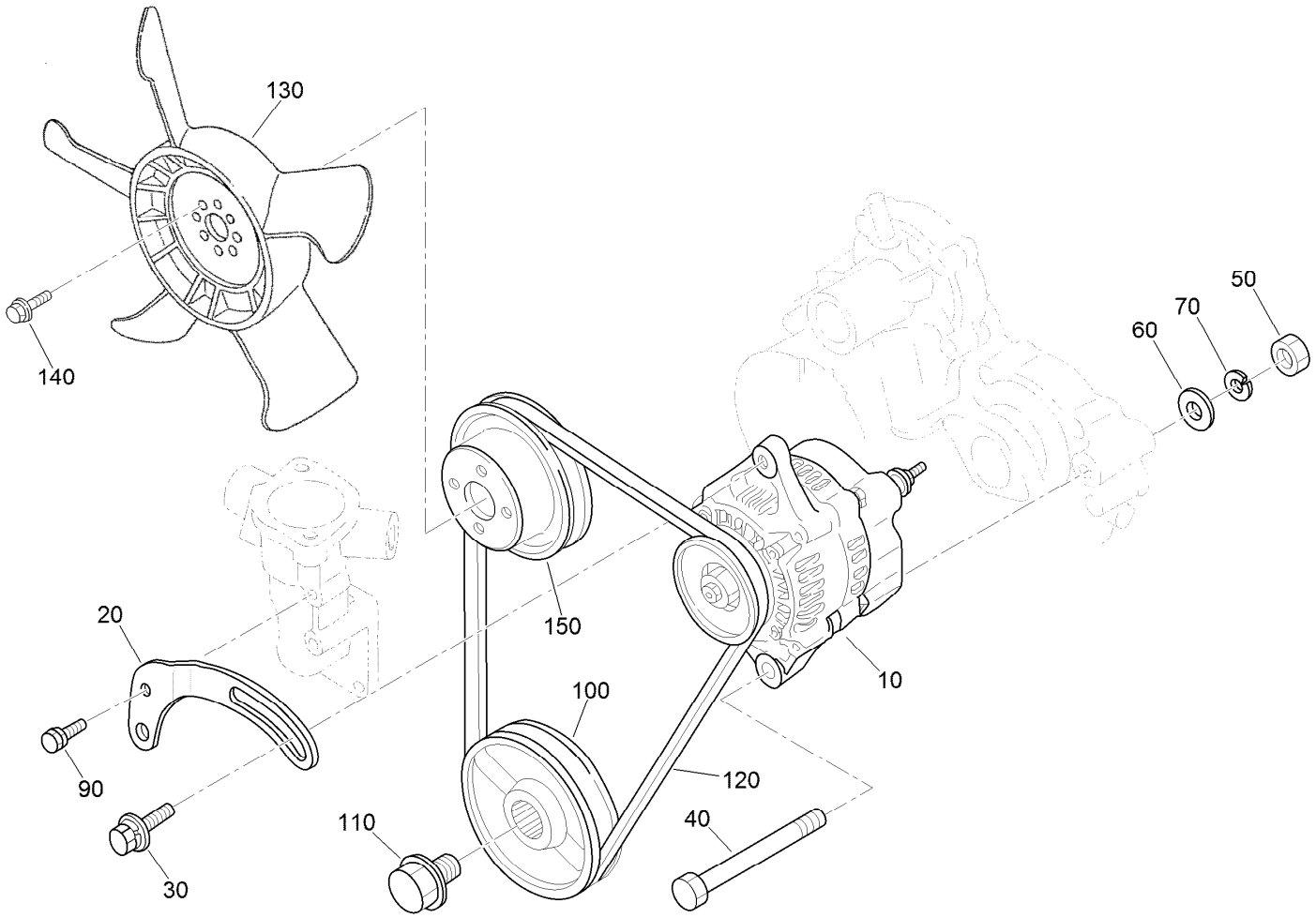
Ref.	Part Number	Qty.	Description
80	98-9622	1	Pipe-Injection
90	98-9654	1	Pipe-Injection
100	98-9655	1	Pipe-Injection
110	98-7682	2	Clamp-Pipe
120	98-7683	2	Clamp-Pipe
130	98-7684	2	Screw (W/Washer)
140	130-1411	3	Plug-Glow
150	98-9631	1	Cord-Plug, Glow
160	99-8377	3	Nut-Flange



Nozzle Holder Assembly

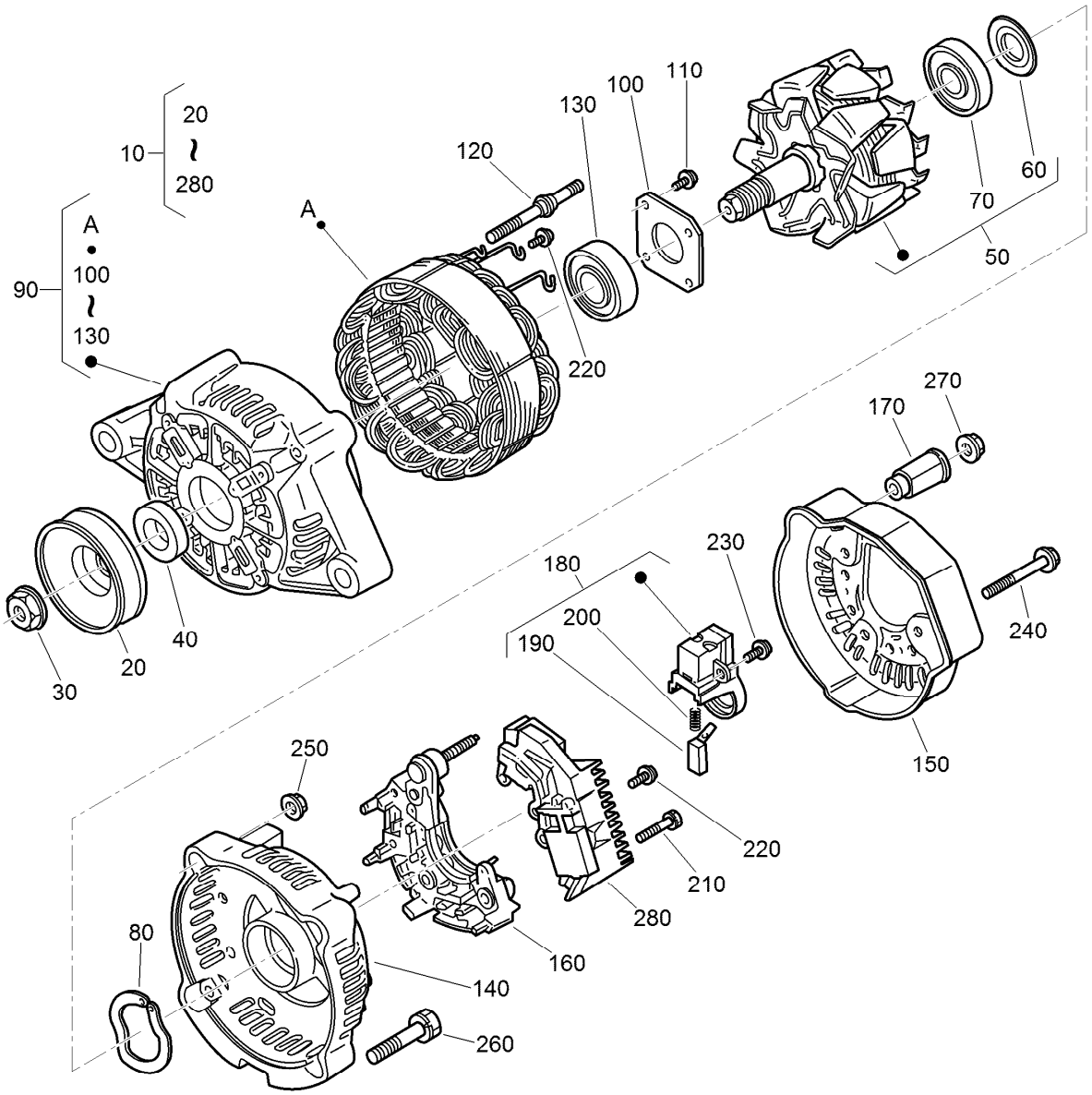
Ref.	Part Number	Qty.	Description
10	115-3018	3	Nozzle Holder Kit
20	121-2411	3	Nut
30	99-8302	3	Washer-Adjusting
40	99-8303	3	Spring-Nozzle
50	99-8304	3	Spacer-Distance
60	99-8305	3	Rod-Push
70	99-8306	3	Nut-Nozzle
80	99-8307	3	Washer-Plain
90	115-3020	3	Piece-Nozzle
100	99-8309	3	Adjusting Washer ASM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

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



Alternator, Pulley and Fan Assembly

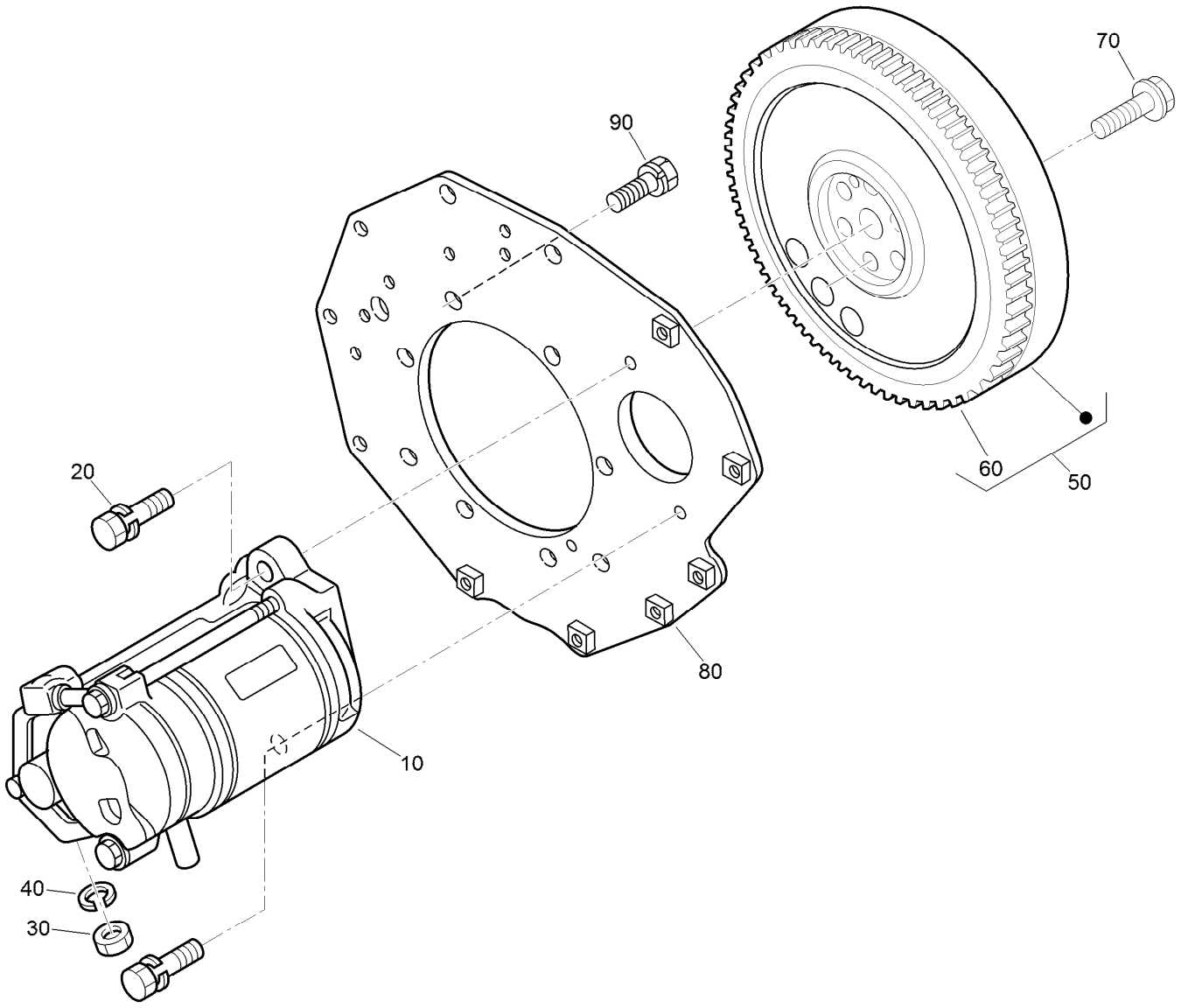
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9474	1	Alternator ASM
20	112-7047	1	Stay-Dynamo
30	108-7088	1	Bolt
40	98-9360	1	Bolt
50	98-7737	1	Nut
60	98-9366	1	Washer-Plain
70	98-7738	1	Washer-Spring
90	98-7692	1	Bolt
100	99-3456	1	Pulley-Drive, Fan
110	98-9585	1	Bolt
120	130-1241	1	V Belt
130	99-3461	1	Fan
140	99-8363	4	Bolt-Flange
150	99-3453	1	Pulley-Fan



Alternator Components Assembly

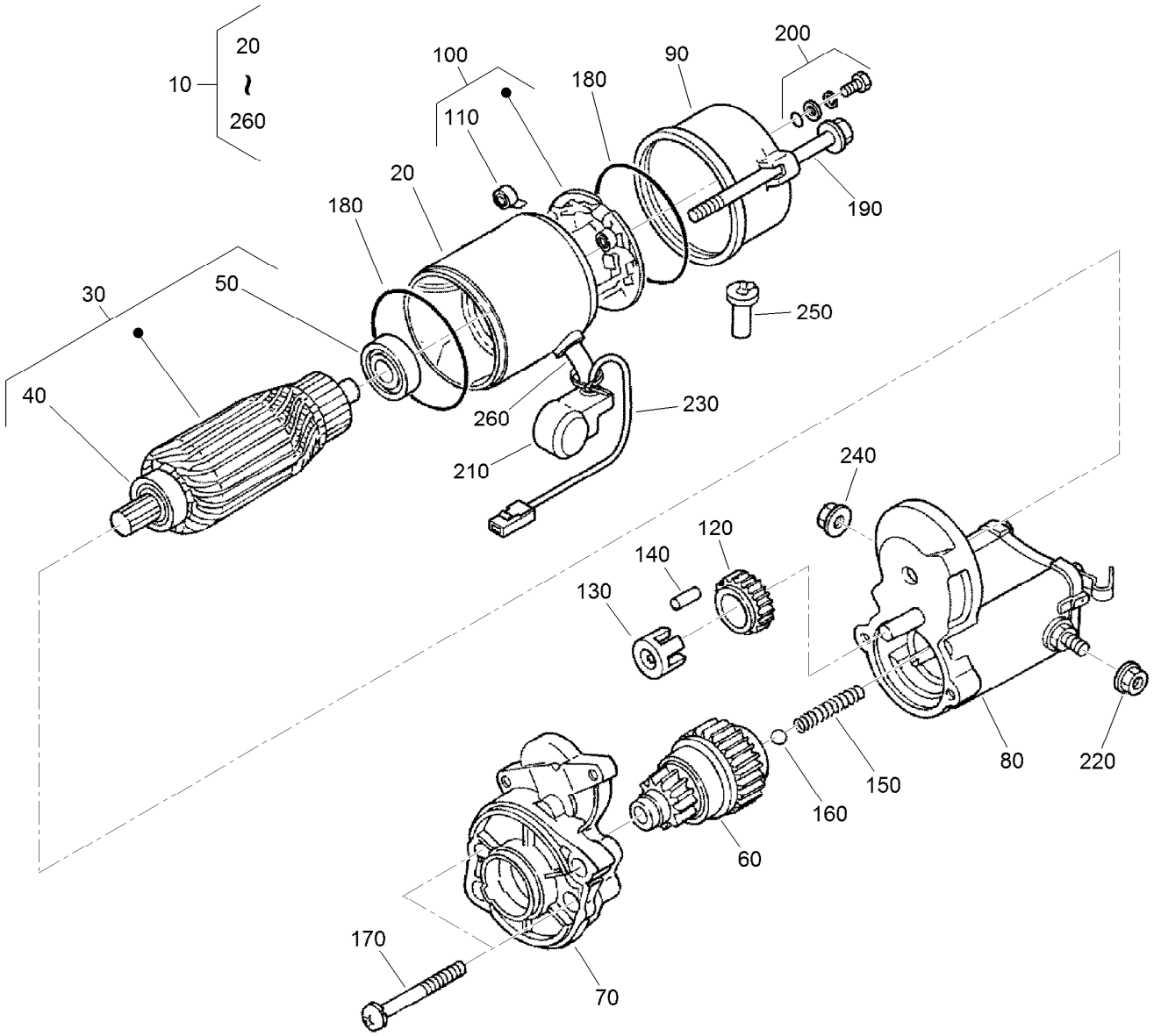
Ref.	Part Number	Qty.	Description
10	98-9474	1	Alternator ASM
20	98-9453	1	Pulley-Dynamo
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor ASM
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	98-7716	4	Screw-Head, Round
120	98-7717	2	Bolt-Through
130	133-2811	1	Bearing
140	107-9087	1	Frame-End

Ref.	Part Number	Qty.	Description
150	107-0140	1	Cover-End
160	127-1612	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Brush Holder ASM
190	98-7724	2	Brush
200	98-7725	2	Spring-Brush
210	98-7726	2	Screw-Head, Round
220	98-7727	6	Screw-Head, Round
230	98-7728	1	Screw-Head, Round
240	98-7729	3	Bolt
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	110-3799	1	Regulator ASM



Starter and Flywheel Assembly

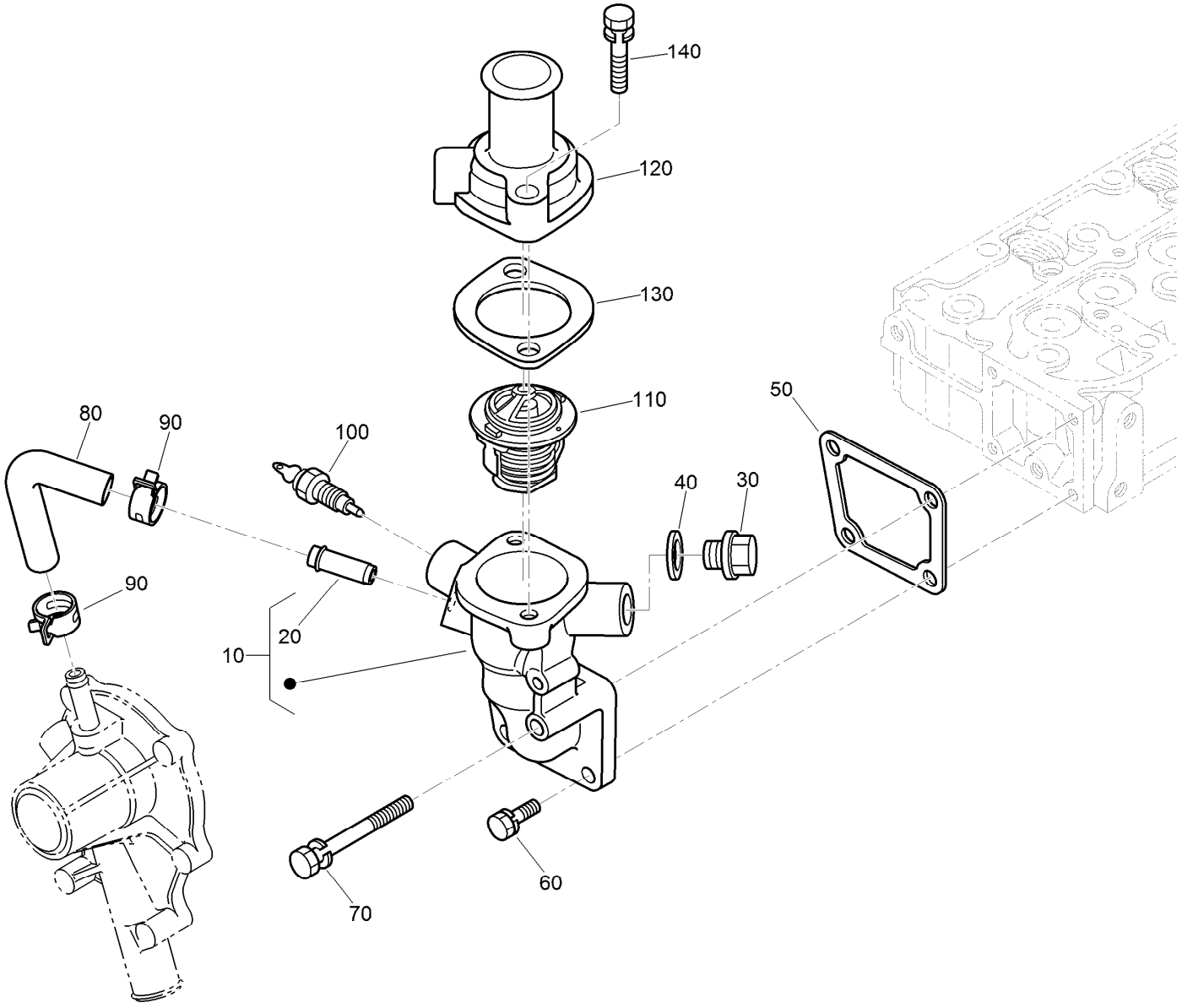
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9705	1	Starter ASM
20	98-7697	2	Bolt
30	98-7739	1	Nut
40	105-2893	1	Washer-Spring
50	105-3784	1	Flywheel ASM
60	115-3015	1	Gear-Ring
70	98-9537	6	Bolt-Flywheel
80	98-9486	1	Plate-End, Rear
90	98-9392	8	Bolt



Starter Component Assembly

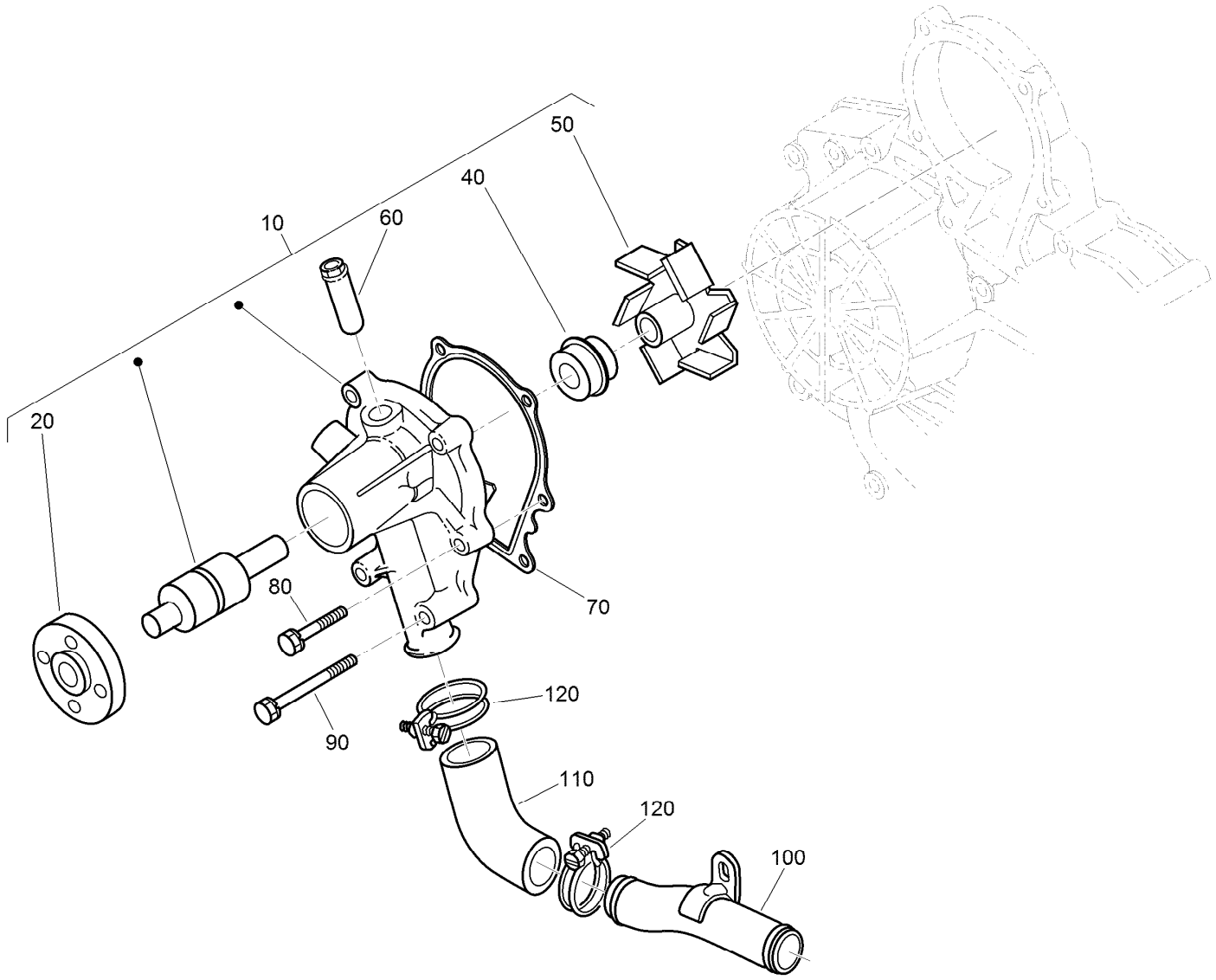
Ref.	Part Number	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM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



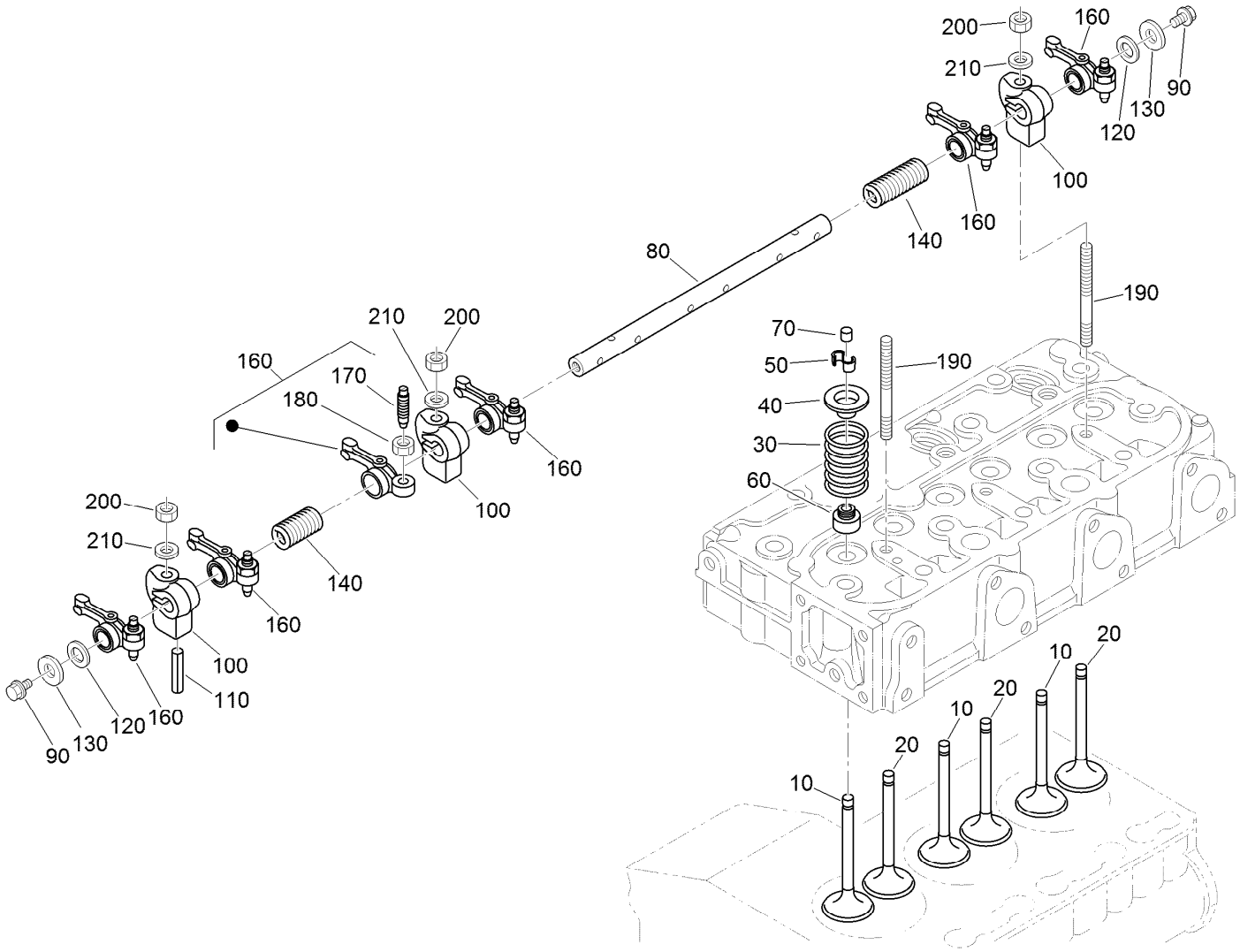
Water Flange and Thermostat Assembly

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	98-9719	1	Thermoswitch
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

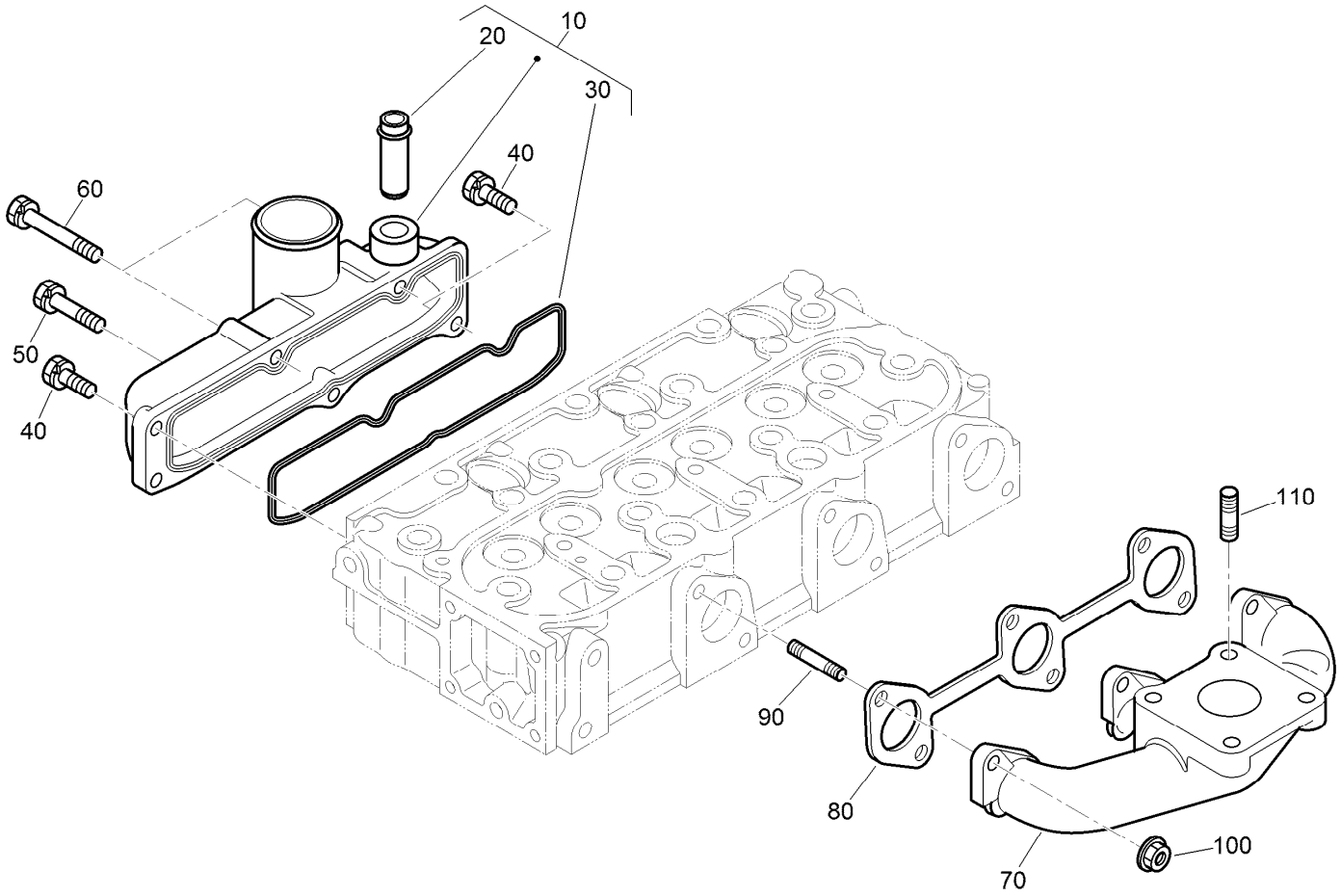
Ref.	*Part Number*	*Qty.*	*Description*
10	107-9089	1	Water Pump ASM
20	99-3516	1	Flange-Pump, Water
40	105-3750	1	Mechanical Seal ASM
50	112-7017	1	Impeller-Pump, Water
60	100-1932	1	Pipe-Return, Water
70	99-3454	1	Gasket-Pump, Water
80	98-9353	4	Bolt
90	98-9357	2	Bolt
100	98-9716	1	Pipe-Water
110	107-9091	1	Pipe-Water
120	127-0439	2	Clamp-Hose



Valve and Rocker Arm Assembly

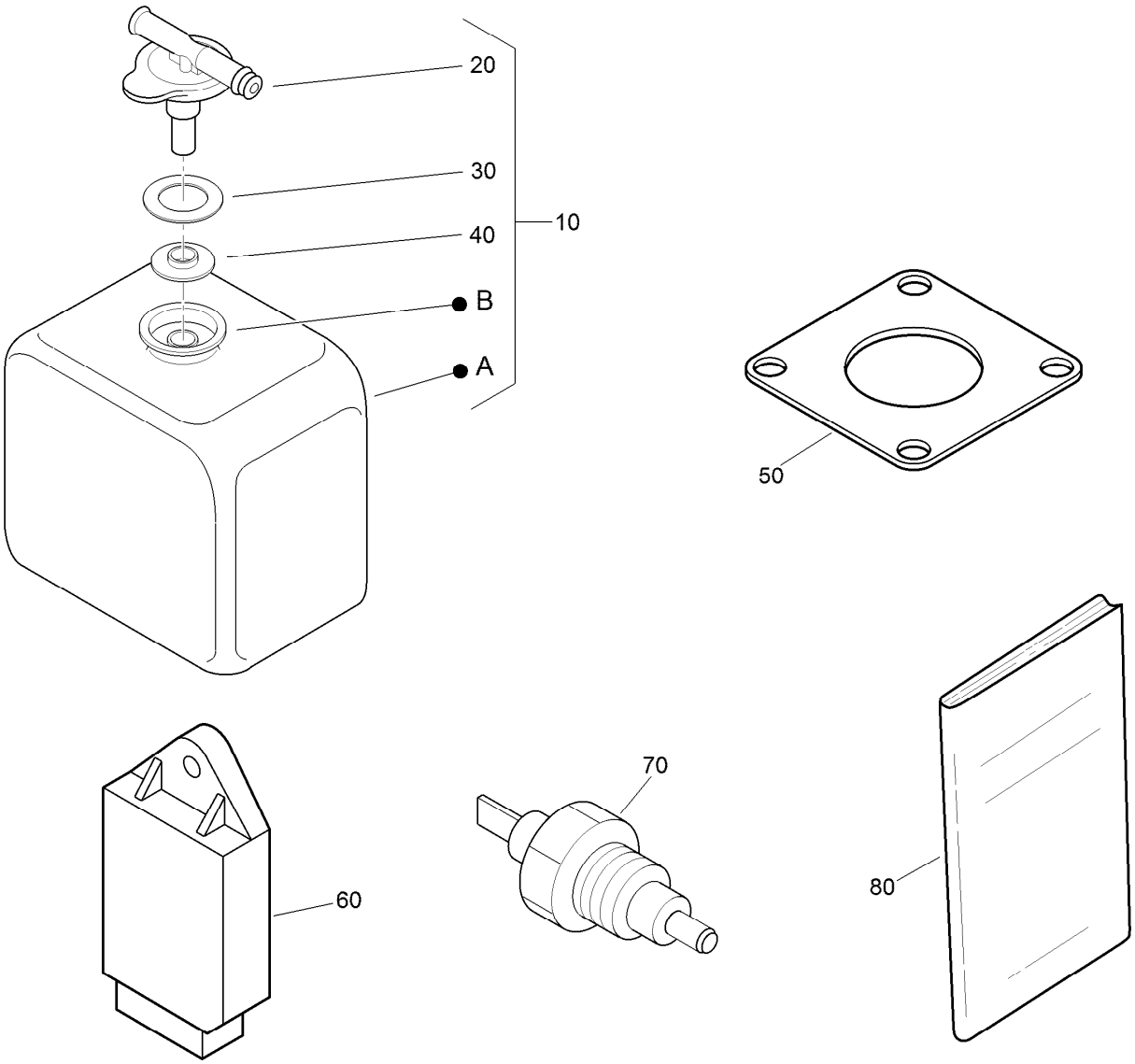
Ref.	Part Number	Qty.	Description
10	112-7018	3	Valve-Inlet
20	120-2564	3	Valve-Exhaust
30	98-9648	6	Spring-Valve
40	107-9092	6	Retainer-Spring
50	117-7572	6	Collet-Spring, Valve
60	99-8385	6	Seal-Stem, Valve
70	98-9497	6	Cap-Valve
80	130-1248	1	Shaft-Arm, Rocker
90	99-8363	2	Bolt-Flange
100	98-9505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

Ref.	Part Number	Qty.	Description
110	105-3758	1	Pin-Spring
120	98-9507	2	Washer-Shaft, Rocker Arm
130	110-3832	2	Washer-Plain
140	98-9504	2	Spring-Arm, Rocker
160	112-7020	6	Rocker Arm ASM
170	98-9502	6	Screw-Adjusting
180	98-9503	6	Nut
190	98-9506	3	Stud
200	98-9393	3	Nut
210	98-9385	3	Washer-Flat



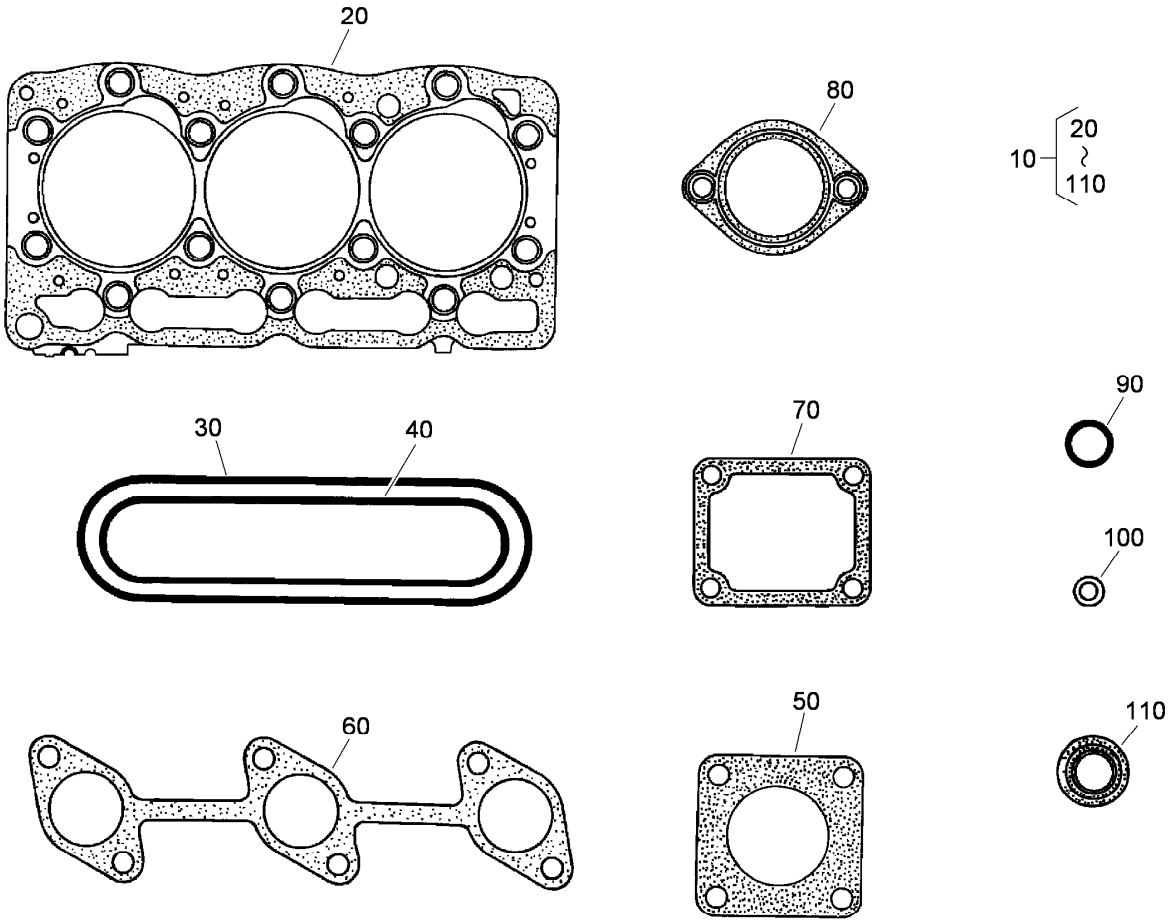
Inlet and Exhaust Manifold Assembly

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



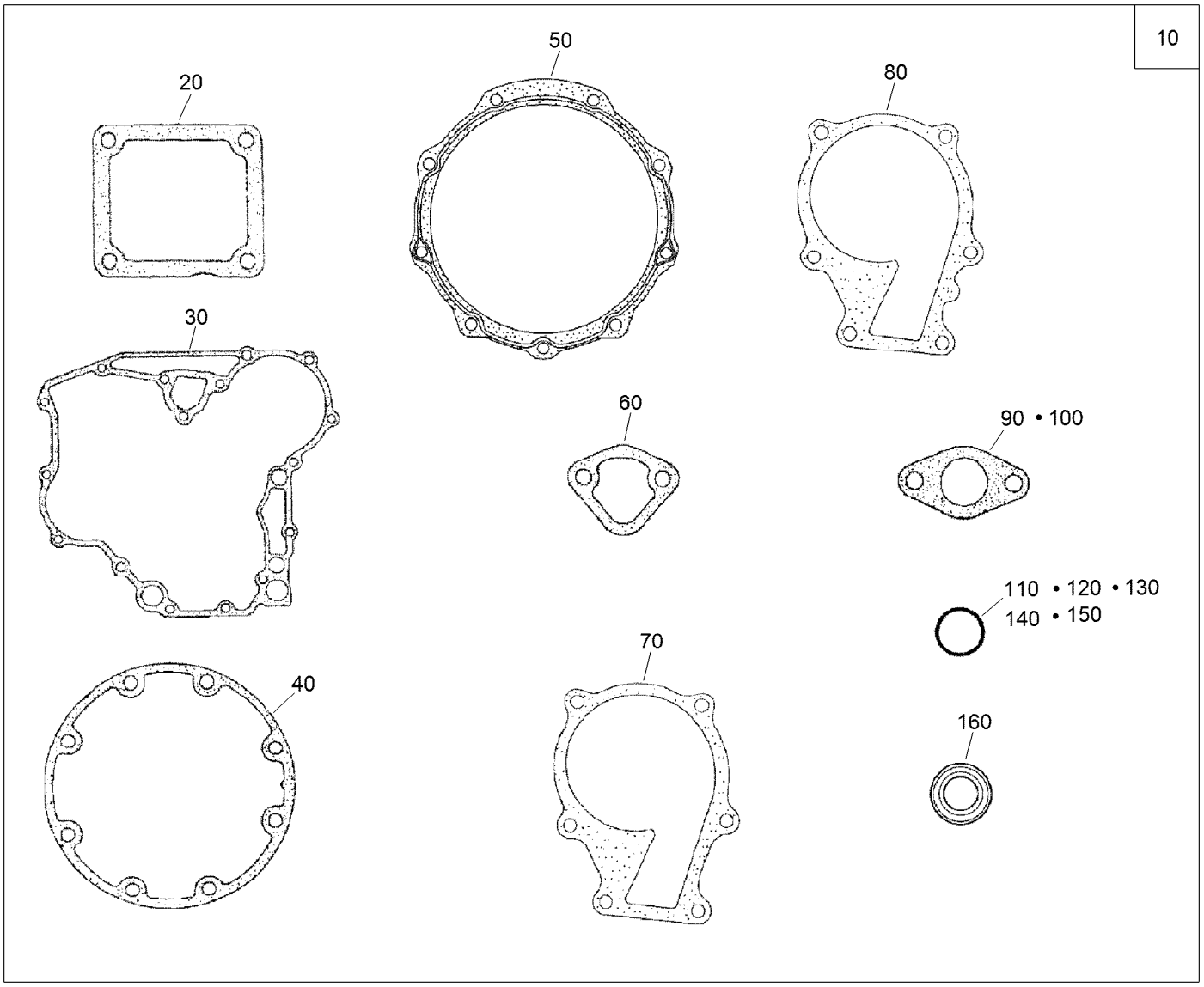
Miscellaneous Engine Parts

Ref.	*Part Number*	*Qty.*	*Description*
10	104-9318	1	Bottle-Overflow
20	115-4132	1	Cap
30	105-3755	1	Gasket
40	105-3756	1	Plate
50	99-8343	1	Gasket-Muffler
60	98-7611	1	Controller-Glow
70	106-7772	1	Thermoswitch
80	130-1543	1	Manual-Operator



Upper Gasket Kit

Ref.	*Part Number*	*Qty.*	*Description*
10	107-7848	1	Upper Gasket Kit
20	108-6573	1	Gasket-Head, Cylinder
30	98-9615	1	Gasket-Cover, Head
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 03170 — Reelmaser 3100-D Traction Unit

Product Name	Model/Part
27in Lift Arm Kit	03172
32in Lift Arm Kit	03173
Wireless Hourmeter	115-4754
8-Blade 27in DPA Edge Series Cutting Unit	03189
11-Blade 27in DPA Edge Series Cutting Unit	03190
8-Blade 32in DPA Edge Series Cutting Unit	03191
RM3105 27in, 8bld Rr Es No Frt Roller Cu	03192
27in Verticutter Cutting Unit	03203
Base Station Kit, Wireless Hourmeter System	115-9542
Repeater Kit, Wireless Hourmeter System	115-9543
External Antenna Kit, Wireless Hourmeter System	115-9524
PX Hydraulic Fluid (55 Gal)	133-8087
PX Hydraulic Fluid (5 Gal)	133-8086
Premium Seat Kit	30629
Arm Rest Kit	30707
LED Work Light Kit	31692
Smooth Rear Tire	127-2796
Tire	120-7639
Decal-Service, Japan	138-1190
White Universal Sunshade	30669
Red Universal Sunshade	30671
Operator Cooling Fan	03247
Hi-Back Seat Cover	133-1308
Switch Panel-Universal Sunshade	03248
Beacon Kit	138-2699
Work Lights Kit, Groundsmaster and Reelmaster Traction Units with Universal Sunshade	140-1554
Power Harness Kit	138-2993
Semi-Gloss Black Spray Paint	361-9
Wheel Weight Kit	136-3315
1000 Hour MVP Kit	44963
Dark Metallic Gray Aerosol Paint	361-12
New Red Paint - Gallon	361-11
Air Dry Red Paint - Qt	5340
Hydraulic Booster-10.5 fl oz	145-5286

Count on it.