Form No. 3383-172 Rev A

TORO®

Count on it.

Parts Catalog

Groundsmaster® 7210 Traction Unit

Model No. 30381N—Serial No. 314000001 and Up

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

3383-172 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

Contents

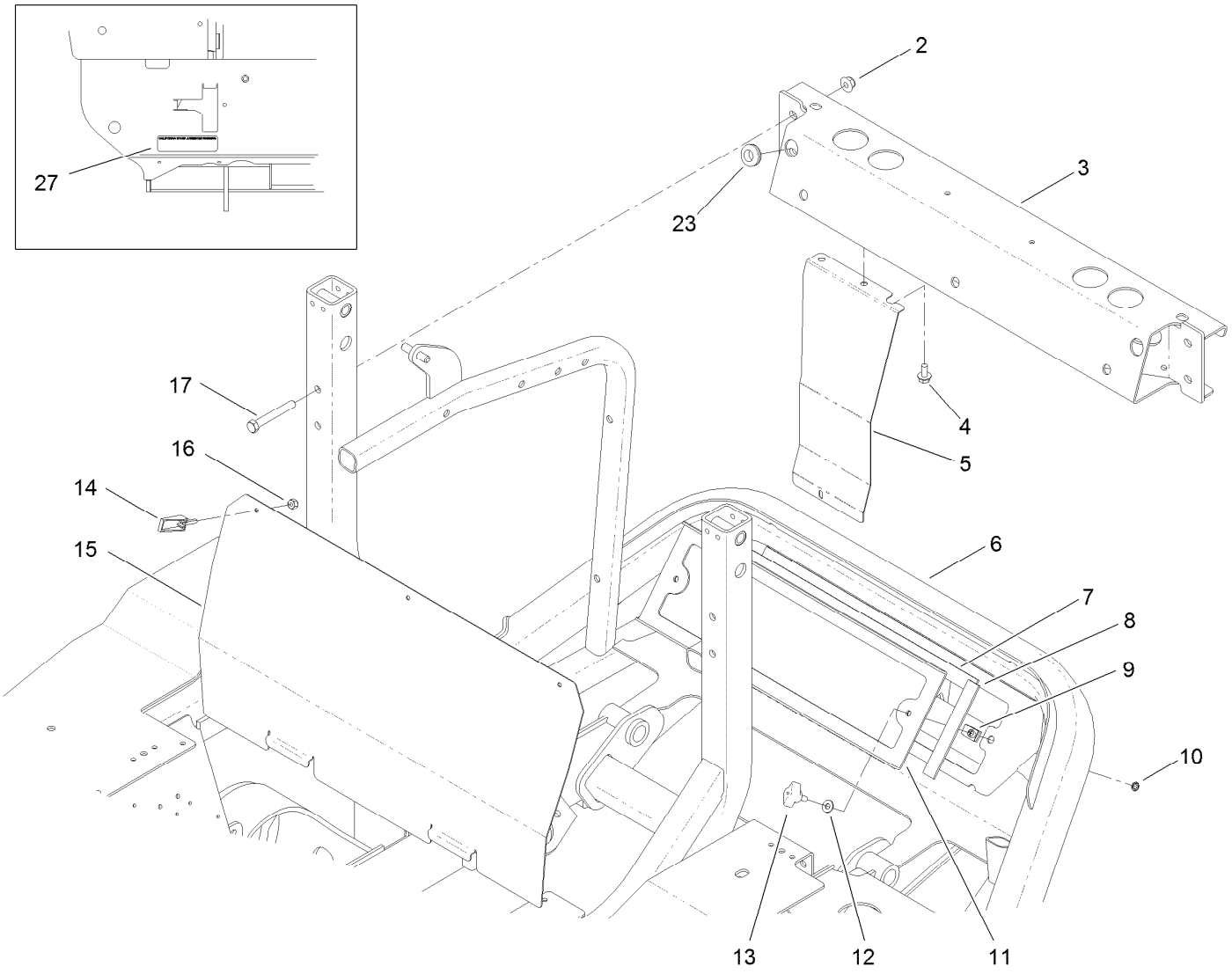
Rear Frame Assembly . . . 5
Engine Assembly . . . 6
Transmission and Gear Pump Assembly . . . 7
Charge Pump Housing Assembly Transmission Assembly No. 121-3370 . . . 8
Center Section Assembly Transmission Assembly No. 121-3370 . . . 9
Gear Case and Clutch Assembly Transmission Assembly No. 121-3370 . . . 10
Driveshaft Assembly No. 110-3575 . . . 11
Hydraulic Gear Pump Assembly No. 112-9542 . . . 12
Rear Drive Assembly . . . 13
Hydraulic Motor Assembly No. 108-5155 . . . 14
Hydraulic Motor Assembly No. 108-5230 . . . 15
LH Brake Caliper Assembly No. 120-0013 . . . 16
RH Brake Caliper Assembly No. 120-0014 . . . 17
Brake Handle Assembly . . . 18
Radiator and Oil Cooler Assembly . . . 19
Traction Control Assembly . . . 20
Link Assembly No. 112-5099 . . . 21
RH Lever Assembly No. 125-2687 . . . 22
Control Panel Assembly . . . 23
Left-Hand and Right-Hand Fuel Tank Assembly . . . 24
LH Fuel Tank Assembly No. 110-8230 . . . 25
RH Fuel Tank Assembly No. 110-8236 . . . 26
Fuel Filter / Seperator Assembly . . . 27
Hood and Screen Assembly . . . 28
Seat and Seat Plate Assembly . . . 29
Seat Assembly No. 107-2286 . . . 30
Electrical Assembly . . . 31
Transmission and Oil Cooler Hydraulic Assembly . . . 32
Hydraulic Reservoir Assembly . . . 33
Hydraulic Reservoir Assembly No. 110-8237 . . . 34
Air Cleaner and Hose Assembly . . . 35
Air Cleaner Assembly No. 104-3428 . . . 36
Crankcase Assembly . . . 37
Oil Pan Assembly . . . 38
Cylinder Head Assembly . . . 39
Head Cover Assembly . . . 40
Gear Case Assembly . . . 41
Main Bearing Case Assembly . . . 42
Camshaft and Idle Gear Shaft Assembly . . . 43
Piston and Crankshaft Assembly . . . 44
Flywheel Assembly . . . 45
Fuel Camshaft and Governor Shaft Assembly . . . 46
Idle Apparatus Assembly . . . 47
Injection Pump Assembly . . . 48
Governor Assembly . . . 49
Speed Control Plate Assembly . . . 50
Nozzle Holder and Glow Plug Assembly . . . 51
Nozzle Holder Assembly . . . 52
Alternator and Pulley Assembly . . . 53
Alternator Components Assembly . . . 54
Starter (Component Part) Assembly No. 98-9705 . . . 55
Water Flange and Thermostat Assembly . . . 56
Water Pump Assembly . . . 57
Inlet and Exhaust Manifold Assembly . . . 58

© 2014—The Toro® Company
8111 Lyndale Avenue South
Bloomington, MN 55420

Contact us at www.Toro.com.
Printed in the USA.
All Rights Reserved

Contents (continued)

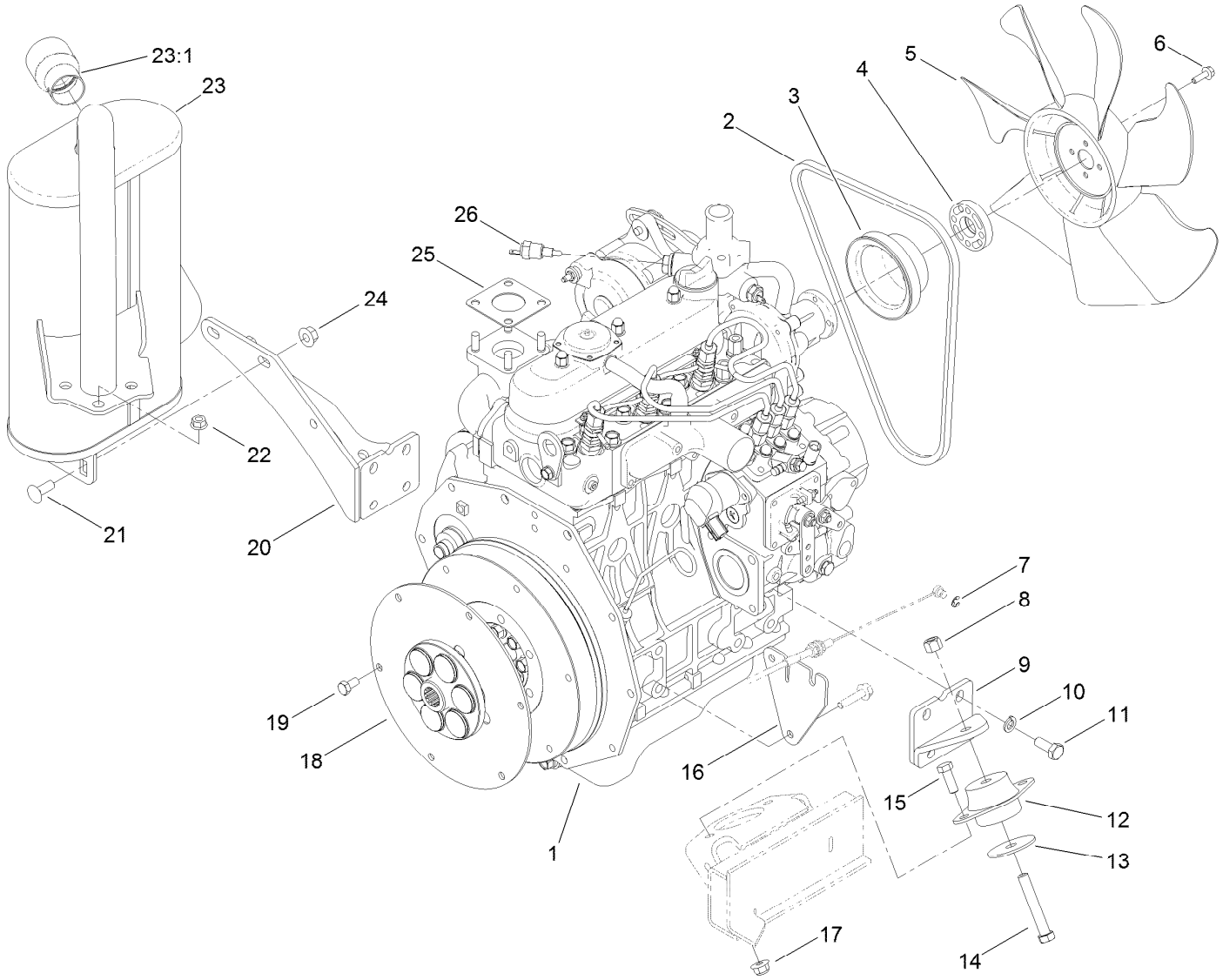
Valve and Rocker Arm Assembly 59
Turbo Charger Assembly 60
Turbo Charger Oil Pipe Assembly 61
Oil Cooler Assembly 62
Gasket Kit 63
Electric Fuel Pump, Fuel Filter, Starter and Overflow Bottle Assemblies 64
Attachments and Accessories 65



Rear Frame Assembly

Ref.	Part Number	Qty.	Description
2	104-8301	4	Nut-Flange, NI
3	125-2720-03	1	Crossmember
4	32144-14	2	Screw-HWHTF
5	112-6368-03	1	Shield-Heat
6	125-2714-03	1	Frame-Rear
7	120-0019	2	Strip-Foam
8	120-0017	2	Strip-Foam
9	107069	2	Clip
10	32151-106	2	Ring-Retaining

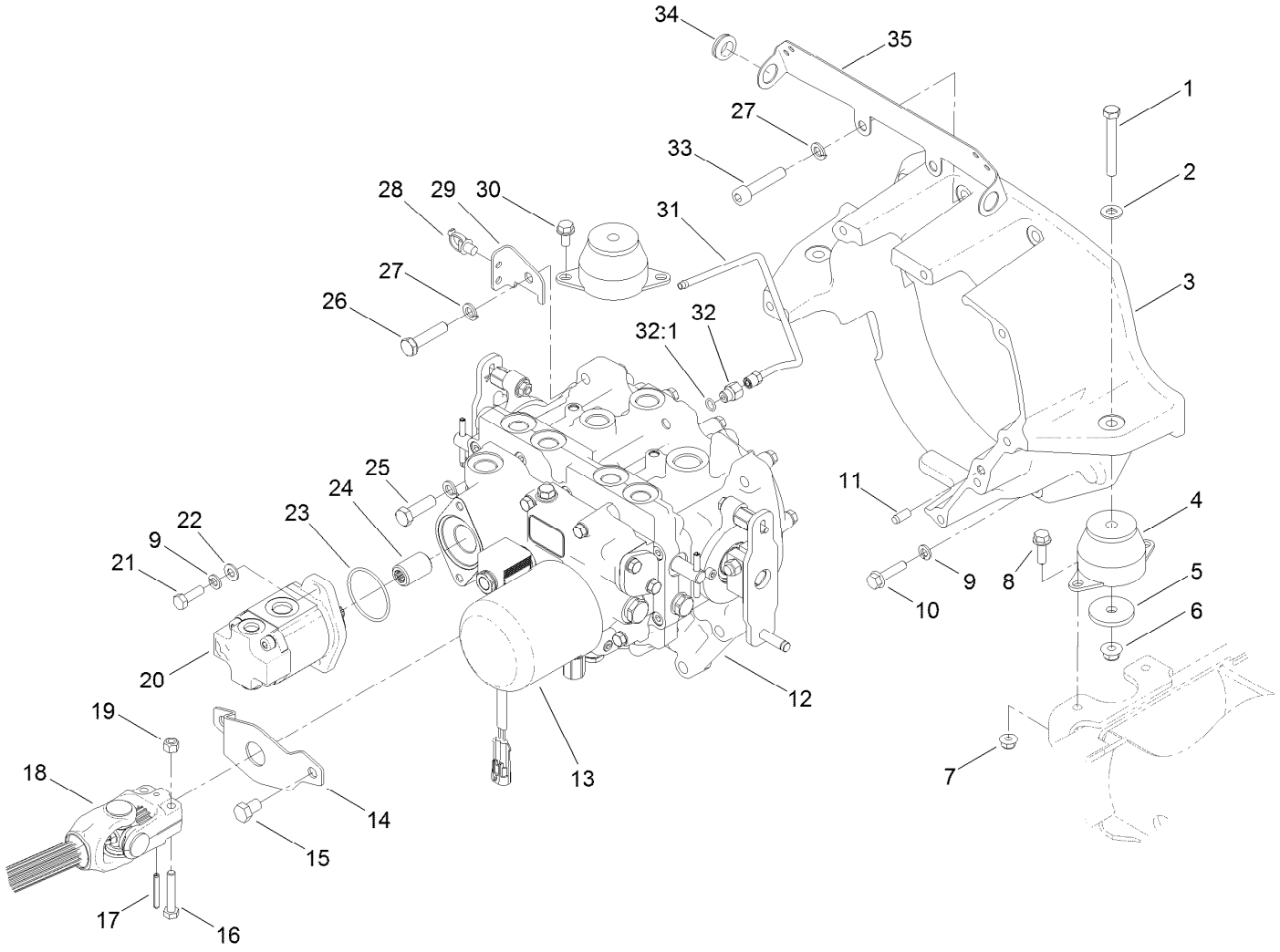
Ref.	Part Number	Qty.	Description
11	112-6384-03	1	Screen
12	3256-22	2	Washer-Flat
13	98-8332	2	Knob
14	74-5950	3	Latch-Swell
15	125-2718-03	1	Panel-Rear
16	1-804254	3	Nut-Lock, HH
17	323-13	4	Screw-HH
23	237-124	2	Grommet
27	117-2718	1	Decal-Arrester, Spark



Engine Assembly

Ref.	Part Number	Qty.	Description
1	125-2173	1	Engine-Kubota, D1105T
2	98-9676	1	V-Belt
3	98-9584	1	Pulley-Fan
4	108-2872	1	Collar-Fan
5	104-4246	1	Fan-Engine
6	33103-020	4	Screw-HHF
7	701197	1	E-Ring
8	3296-48	2	Nut-Lock, NI
9	105-7235-03	1	Mount-Rear
10	48-9590	8	Washer-Lock
11	43-0090	8	Screw-HH
12	53-9681	2	Mount-Engine
13	87-5100	2	Washer-Snubbing
14	324-11	2	Screw-HH

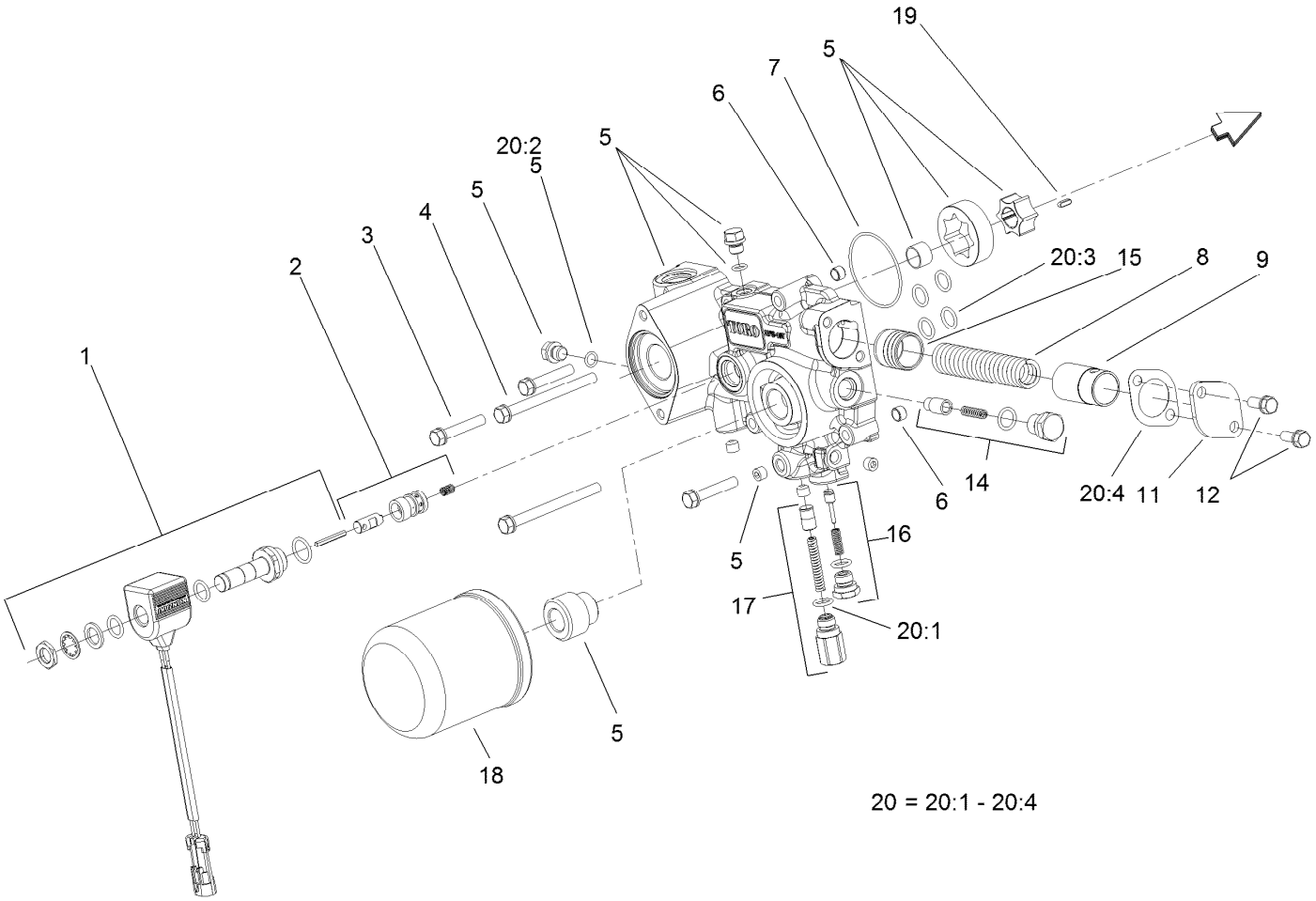
Ref.	Part Number	Qty.	Description
15	323-6	4	Screw-HH
16	114-4060	1	Bracket-Throttle
17	104-8301	4	Nut-Flange, NI
18	110-9729	1	Coupling-Flywheel
19	99-5132	6	Bolt
20	108-9926-03	1	Bracket-Muffler
21	3231-22	2	Screw-CARR
22	33004-00	4	Nut-HF
23	108-9912	1	Muffler
23:1	112-1688	1	Spark Arrestor Kit
24	32128-29	2	Nut-Lock, Flange
25	99-8343	1	Gasket-Muffler
26	98-9719	1	Thermoswitch



Transmission and Gear Pump Assembly

Ref.	Part Number	Qty.	Description
1	323-13	2	Screw-HH
2	3256-24	2	Washer-Flat
3	108-5193	1	Housing-Flywheel
4	107-2289	2	Mount-Motor
5	80-8560	2	Washer-Hardened
6	104-8301	2	Nut-Flange, NI
7	104-8300	2	Nut-Flange, NI
8	3234-17	2	Screw-HHF
9	3253-4	10	Washer-Lock
10	33104-035	8	Screw-HHF
11	87-1910	4	Pin-Dowel
12	121-3370	1	Transmission
13	108-5194	1	Filter-Oil, HYD
14	114-4088	1	Shield-Seal
15	33115-016	2	Screw-HH
16	322-9	4	Screw-HH
17	32121-34	2	Pin-Roll
18	110-3575	1	Driveshaft ASM

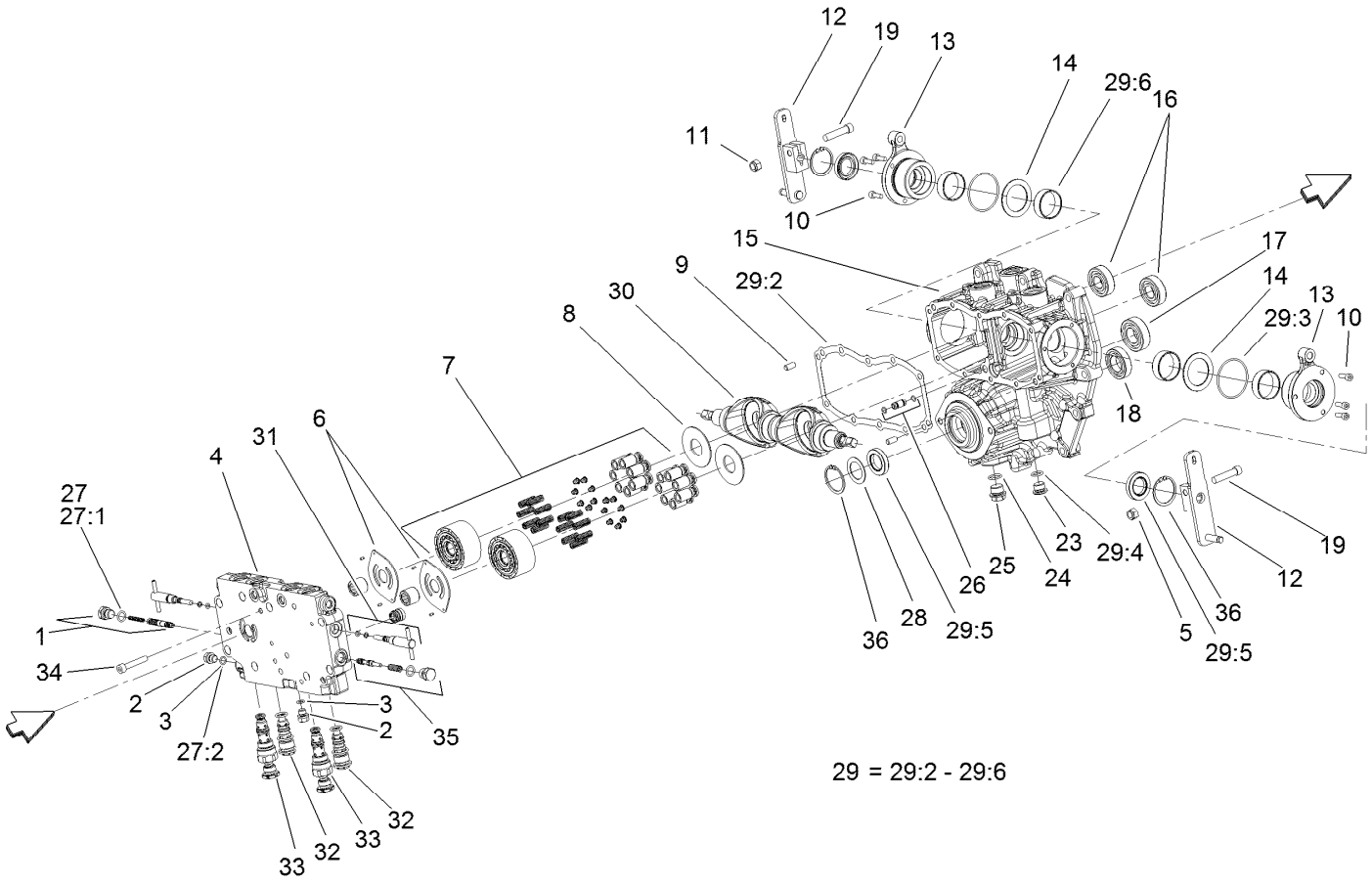
Ref.	Part Number	Qty.	Description
19	3296-29	4	Nut-Lock, NI
20	112-9542	1	HYD Gear Pump ASM
21	33114-025	2	Screw-HH
22	3256-23	2	Washer-Flat
23	108-9919	1	O-Ring
24	108-9920	1	Coupler-Spline
25	33115-035	1	Screw-HH
26	33115-045	6	Screw-HH
27	48-9590	9	Washer-Lock
28	32180-030	1	Clip-Tie
29	120-0239	1	Support-Tube
30	32144-14	2	Screw-HWHTF
31	110-5537	1	Tube
32	110-5536	1	Fitting-HYD, Adapter
32:1	237-78	1	O-Ring
33	3274-106	2	Screw-HSH
34	99-3481	2	Grommet
35	125-2716-03	1	Bracket-Wire



Charge Pump Housing Assembly
Transmission Assembly No. 121-3370

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

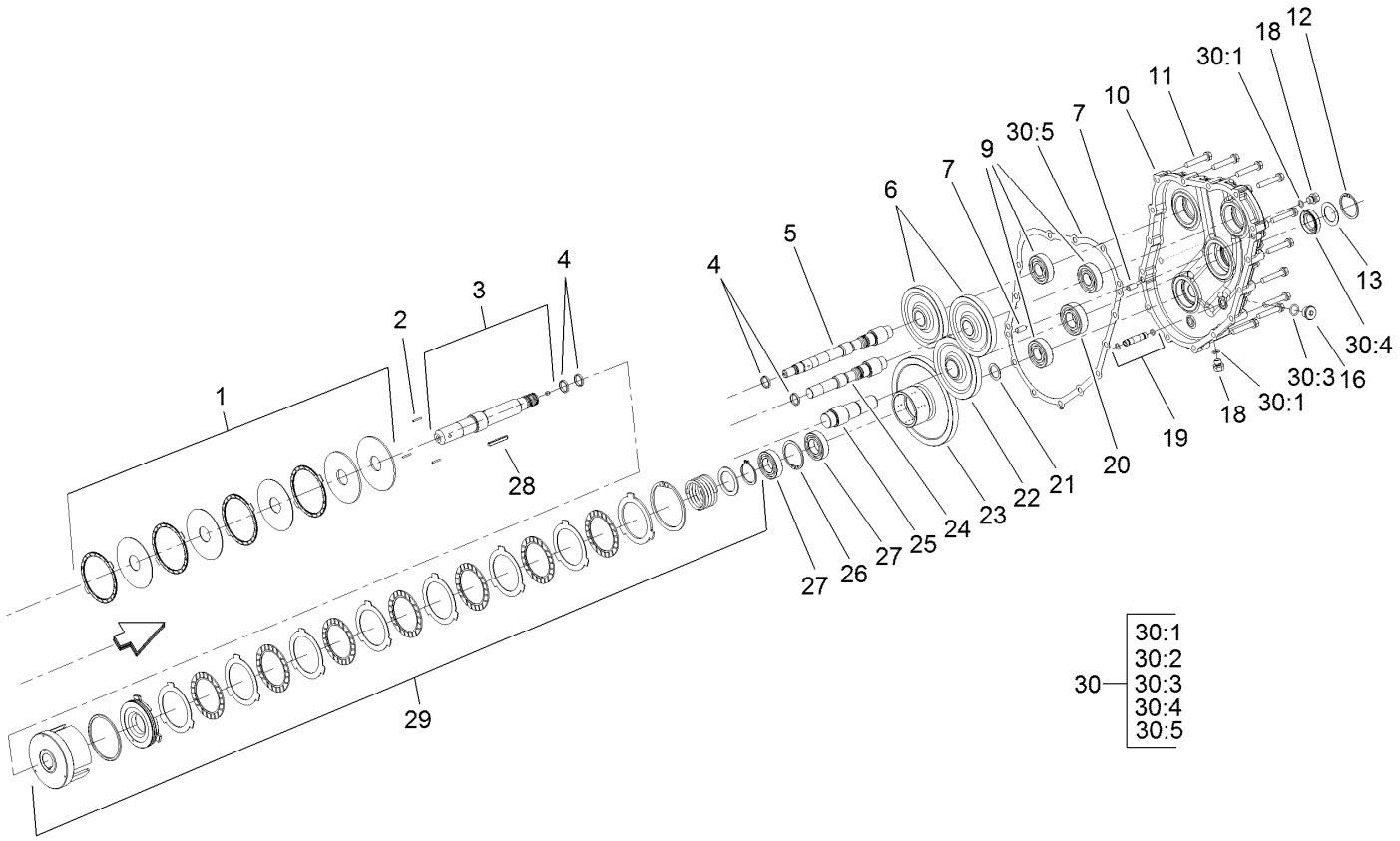
Ref.	*Part Number*	*Qty.*	*Description*
14	107-0843	1	Filter Bypass Valve ASM
15	107-0818	1	Piston
16	107-0842	1	Charge Relief Valve ASM
17	107-0841	1	Pressure Valve ASM
18	108-5194	1	Filter-Oil, HYD
19	107-0865	1	Key
20	107-0855	1	Charge Pump Seal Kit
20:1	93-0418	2	O-Ring
20:2	107-0817	2	O Ring-Plug
20:3	104-3298	6	Packing
20:4	107-0847	1	Gasket



Center Section Assembly
Transmission Assembly No. 121-3370

Ref.	Part Number	Qty.	Description
1	107-0807	1	Valve-Flushing, RH
2	107-0857	2	Plug
3	107-0817	2	O Ring-Plug
4	121-3377	1	Center Case, Complete
5	107-0858	1	U-Nut
6	107-0805	2	Plate-Valve
7	107-0824	2	Cylinder Block ASM
8	107-0830	2	Plate-Thrust
9	92-0765	4	Pin-Parallel
10	107-0859	6	Bolt
11	120-6681	2	U-Nut
12	120-6680	2	Arm-Control
13	107-0832	2	Side Cover ASM
14	107-0829	2	Washer
15	120-5151	1	Pump Housing ASM
16	107-0826	2	Bearing
17	107-0821	1	Bearing
18	107-0838	1	Bearing
19	120-6682	2	Bolt (10 X 40)
23	107-0861	1	Plug-NPTF

Ref.	Part Number	Qty.	Description
24	107-0862	1	O-Ring
25	107-0867	1	Plug
26	107-0812	1	Pipe
27	107-0852	1	Center Case Seal Kit
27:1	93-0418	2	O-Ring
27:2	107-0817	6	O Ring-Plug
28	107-0813	1	Spacer
29	107-0853	1	Pump Housing Seal Kit
29:2	107-0810	1	Gasket-Case, Center
29:3	107-0817	2	O Ring-Plug
29:4	104-3298	1	Packing
29:5	107-0814	3	Seal
29:6	107-0825	4	Ring-Seal
30	120-6679	2	Plate-Swash
31	107-0808	2	Valve-Bypass
32	121-3378	2	Check Valve-Rear
33	107-0803	2	Valve-Front
34	107-0863	8	Bolt
35	107-0806	1	Valve-Flushing, LH
36	92-0757	2	Ring-Snap

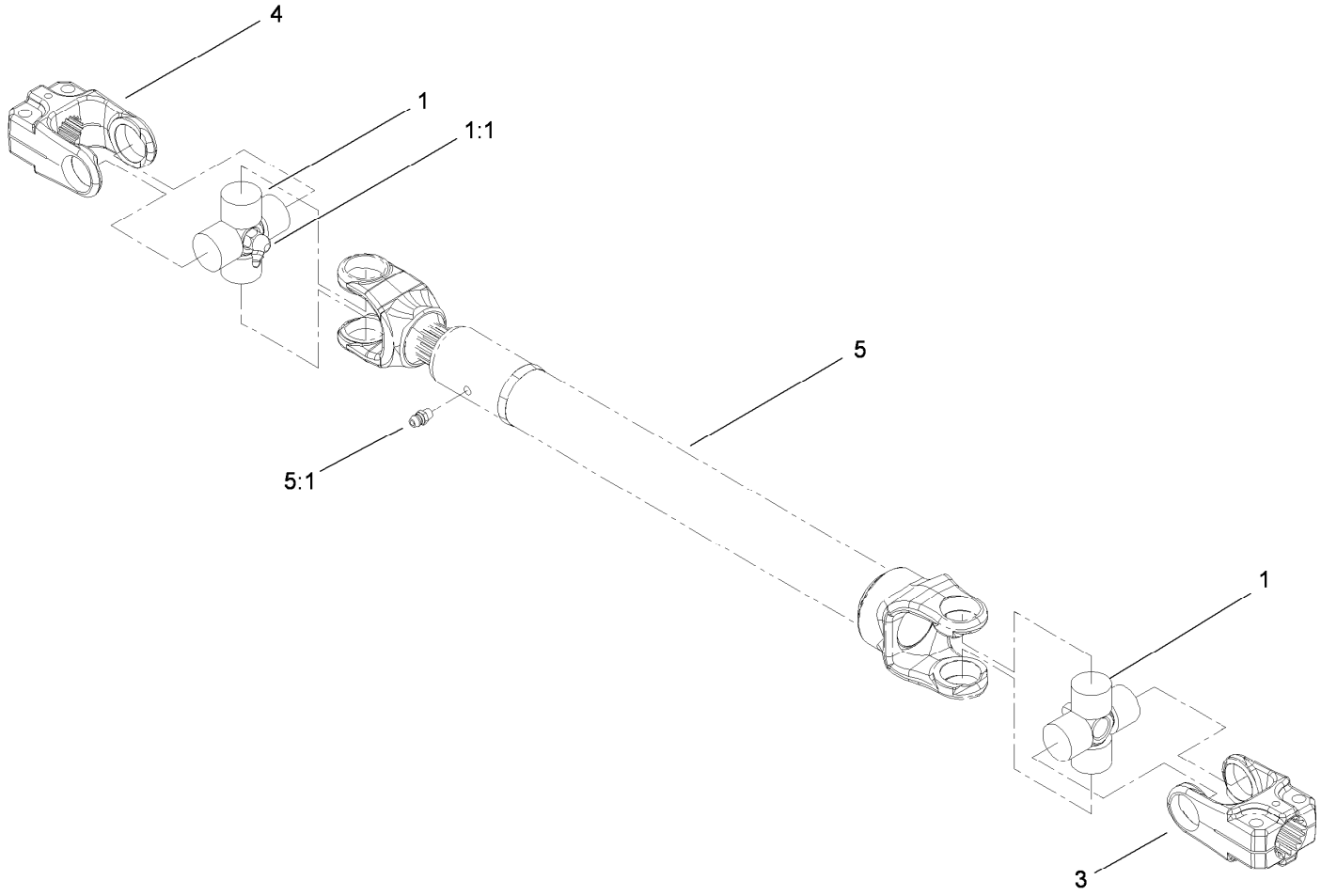


Gear Case and Clutch Assembly
Transmission Assembly No. 121-3370

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

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

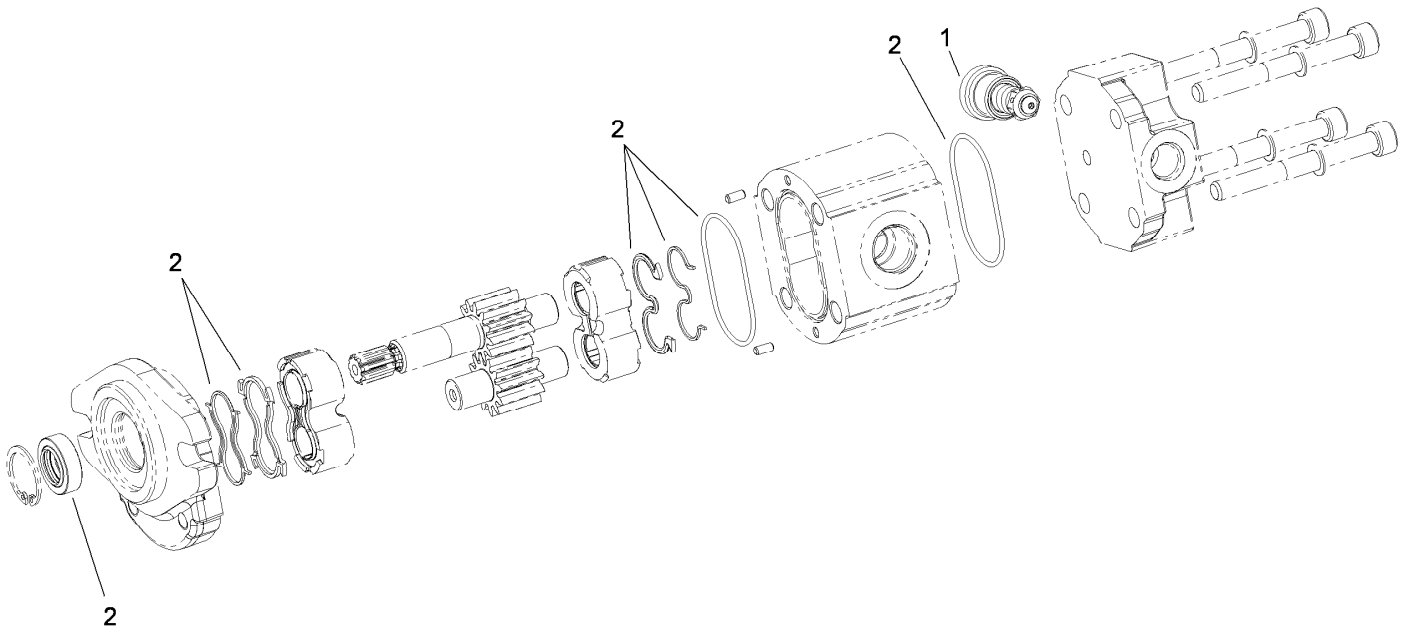
● Not serviced separately



Driveshaft Assembly No. 110-3575

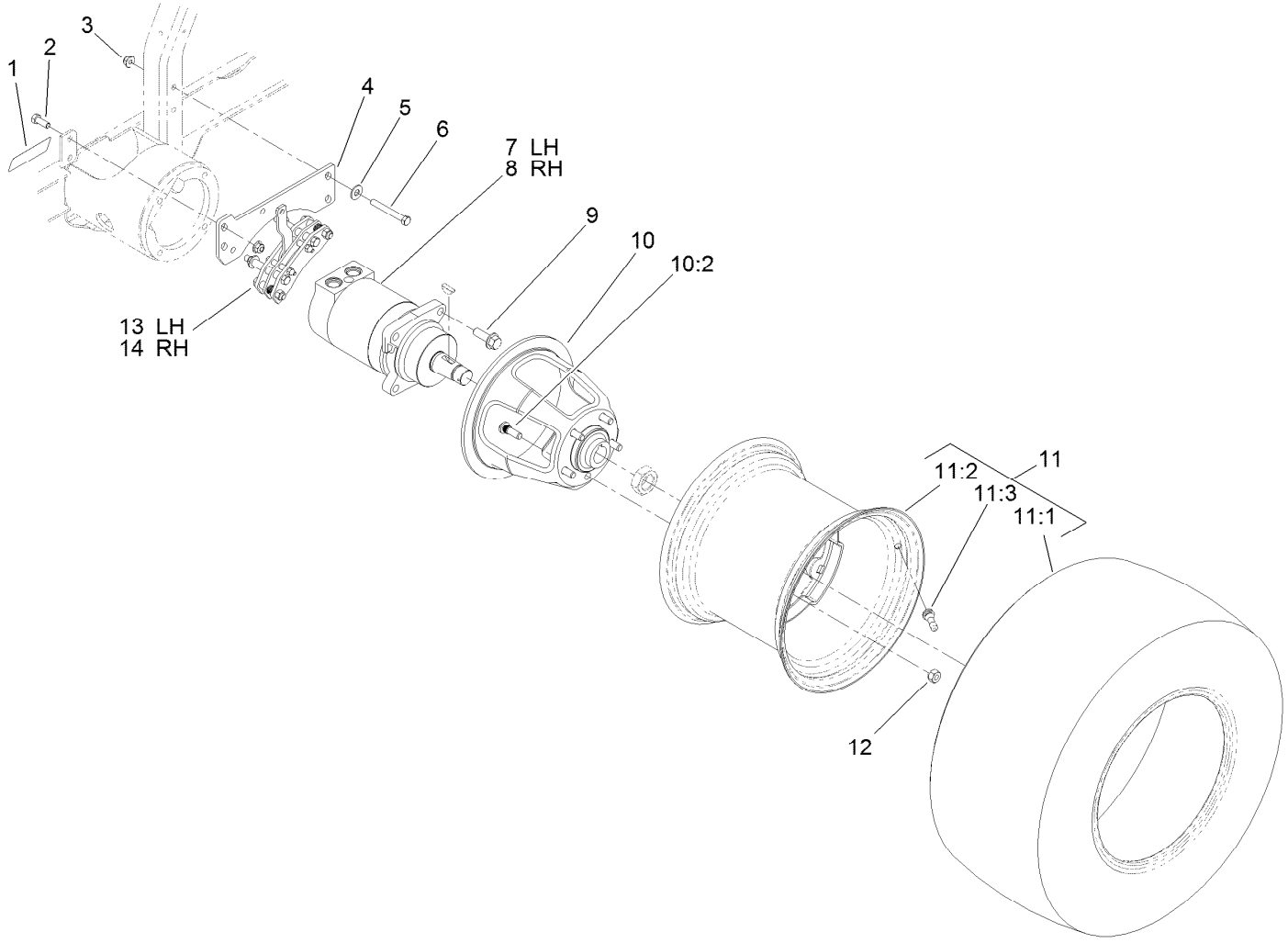
Ref.	*Part Number*	*Qty.*	*Description*
1	112-1687	2	Cross And Bearing Kit
1:1	62-3820	1	Fitting-Grease
3	54-9040	1	Yoke-End
4	54-9090	1	Yoke-End
5		1	Tube-Yoke, Slip ●
5:1	302-22	1	Fitting-Grease

● Not serviced separately



Hydraulic Gear Pump Assembly No. 112-9542

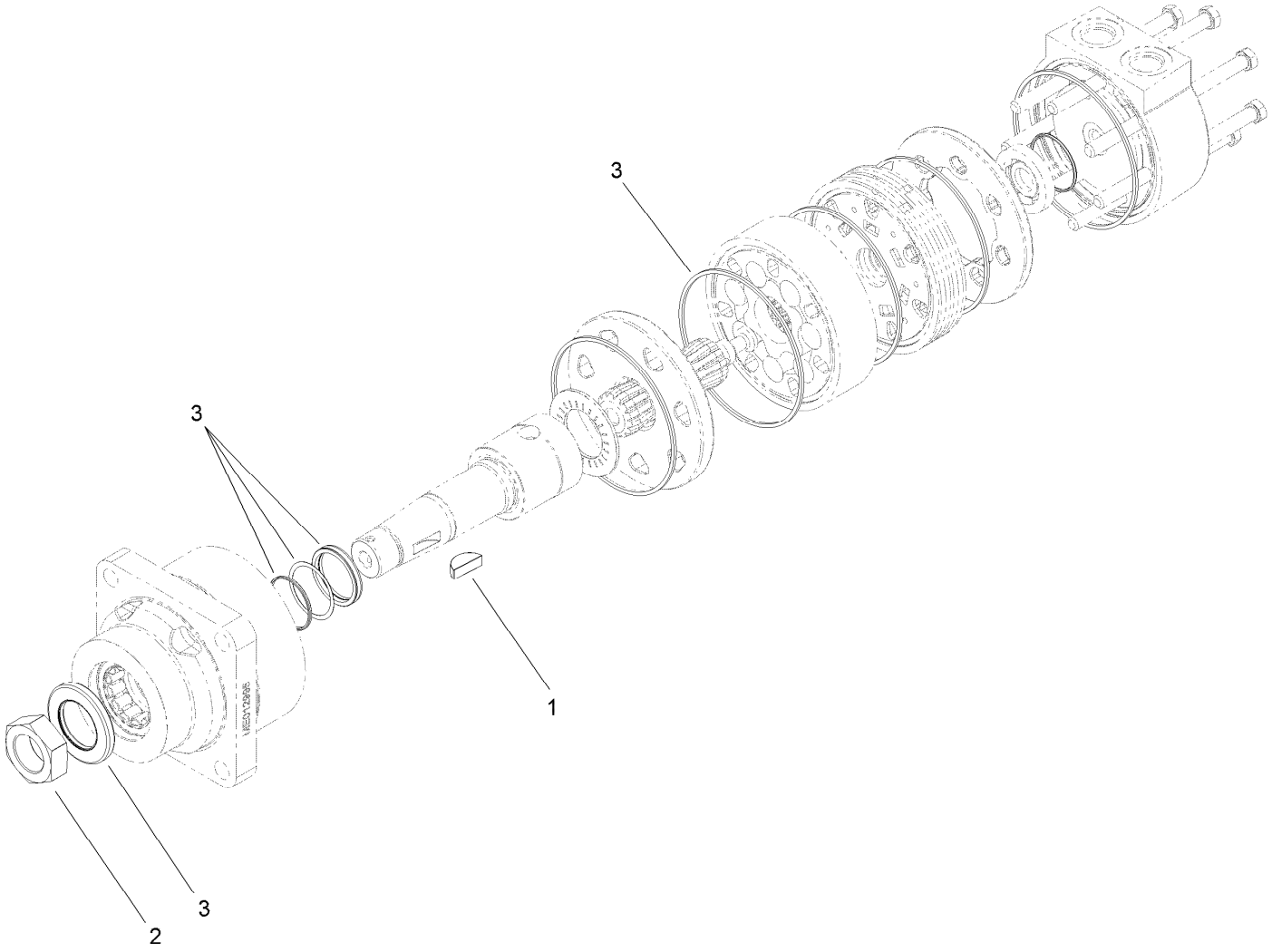
Ref.	*Part Number*	*Qty.*	*Description*
1	112-0198	1	Valve
2	112-0199	1	Seal Kit



Rear Drive Assembly

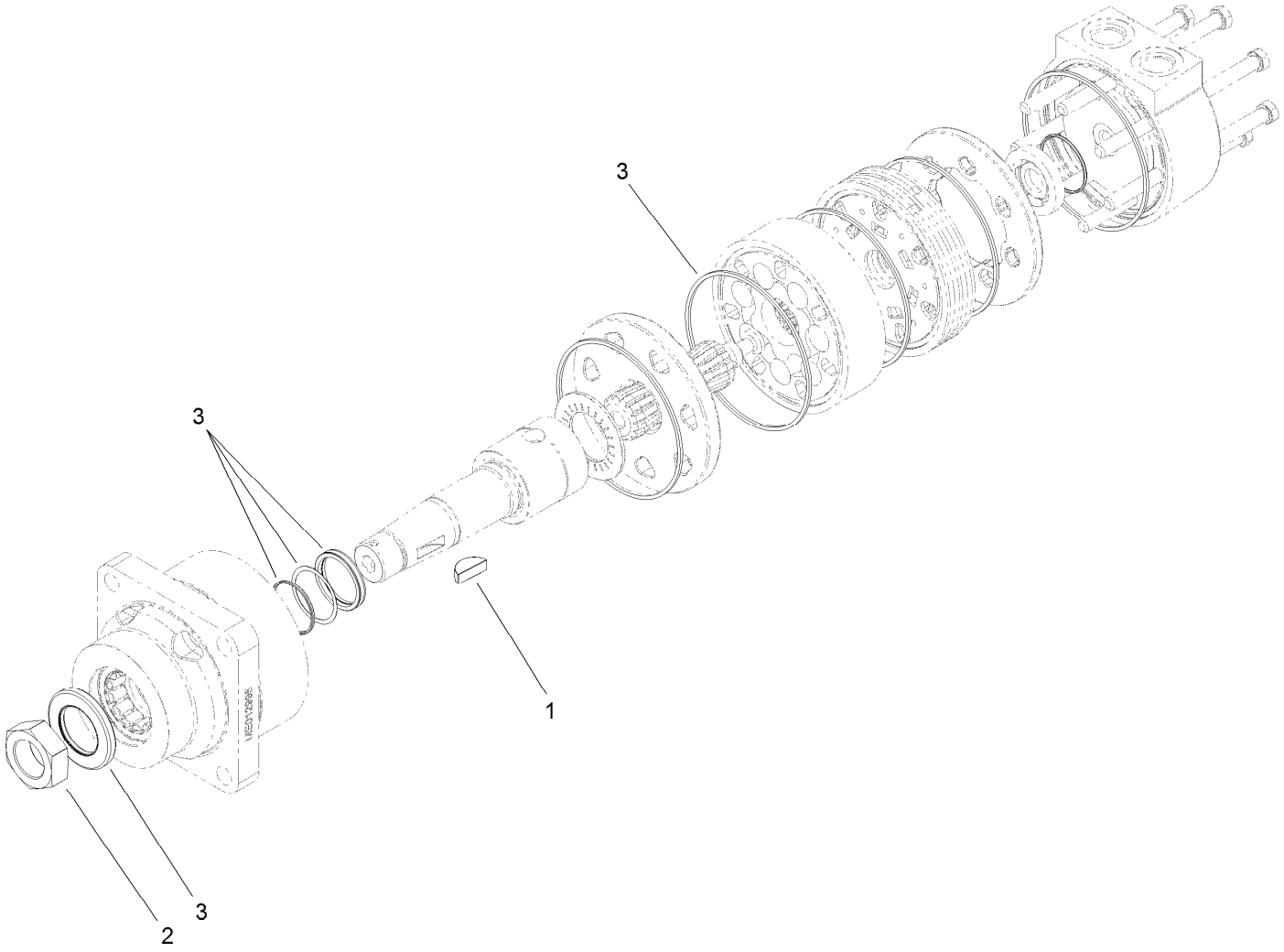
Ref.	Part Number	Qty.	Description
1	106-9206	2	Decal-Torque, Wheel
2	323-6	4	Screw-HH
3	104-8301	8	Nut-Flange, NI
4	112-9550-03	2	Bracket-Brake
5	3256-4	4	Washer-Flat
6	323-14	4	Screw-HH
7	108-5155	1	LH HYD Motor ASM
8	108-5230	1	RH HYD Motor ASM
9	100-6116	8	Screw-HHF

Ref.	Part Number	Qty.	Description
10	110-5535	2	Wheel Hub ASM
10:2	87-8730	5	Stud
11	106-7864	2	Tire And Wheel ASM
11:1	106-7868	1	Tire
11:2	87-6750	1	Wheel
11:3	232-27	1	Stem-Valve
12	23-7270	10	Nut-Wheel
13	120-0013	1	LH Brake Caliper ASM
14	120-0014	1	RH Brake Caliper ASM



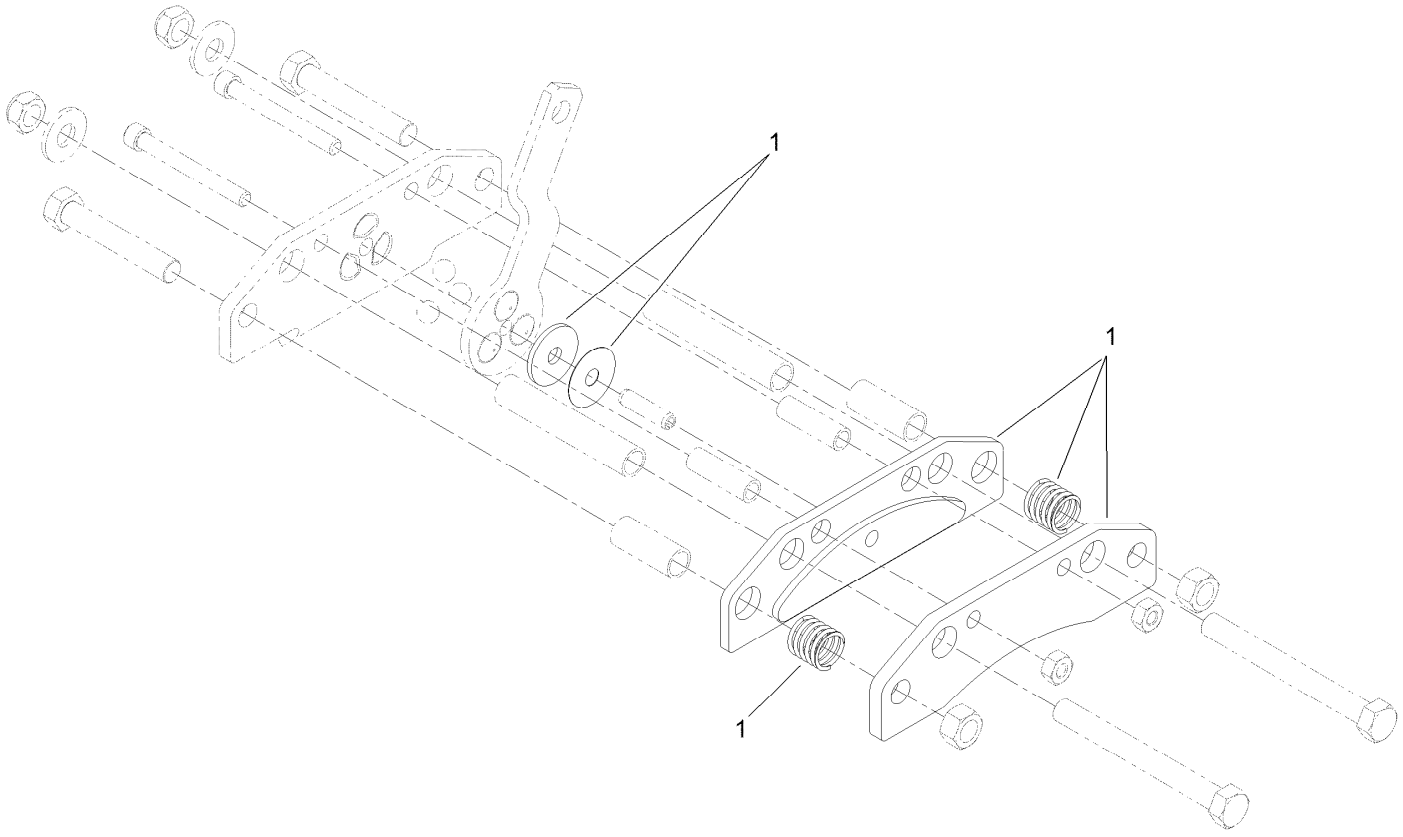
Hydraulic Motor Assembly No. 108-5155

Ref.	*Part Number*	*Qty.*	*Description*
1	3257-42	1	Key-Woodruff
2	107-9319	1	Nut-Hex
3	112-8405	1	Seal Kit



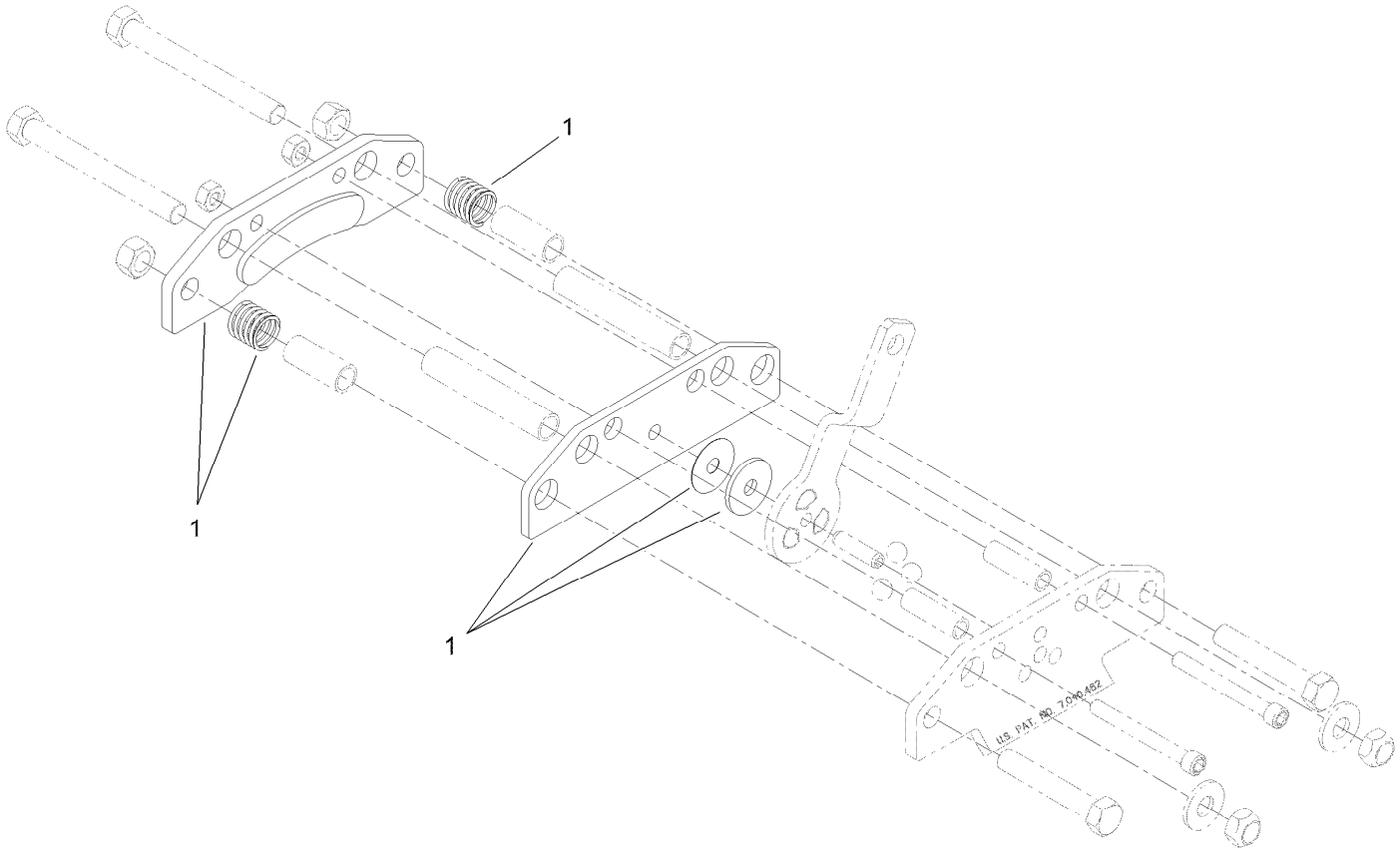
Hydraulic Motor Assembly No. 108-5230

Ref.	*Part Number*	*Qty.*	*Description*
1	3257-42	1	Key-Woodruff
2	107-9319	1	Nut-Hex
3	112-8405	1	Seal Kit



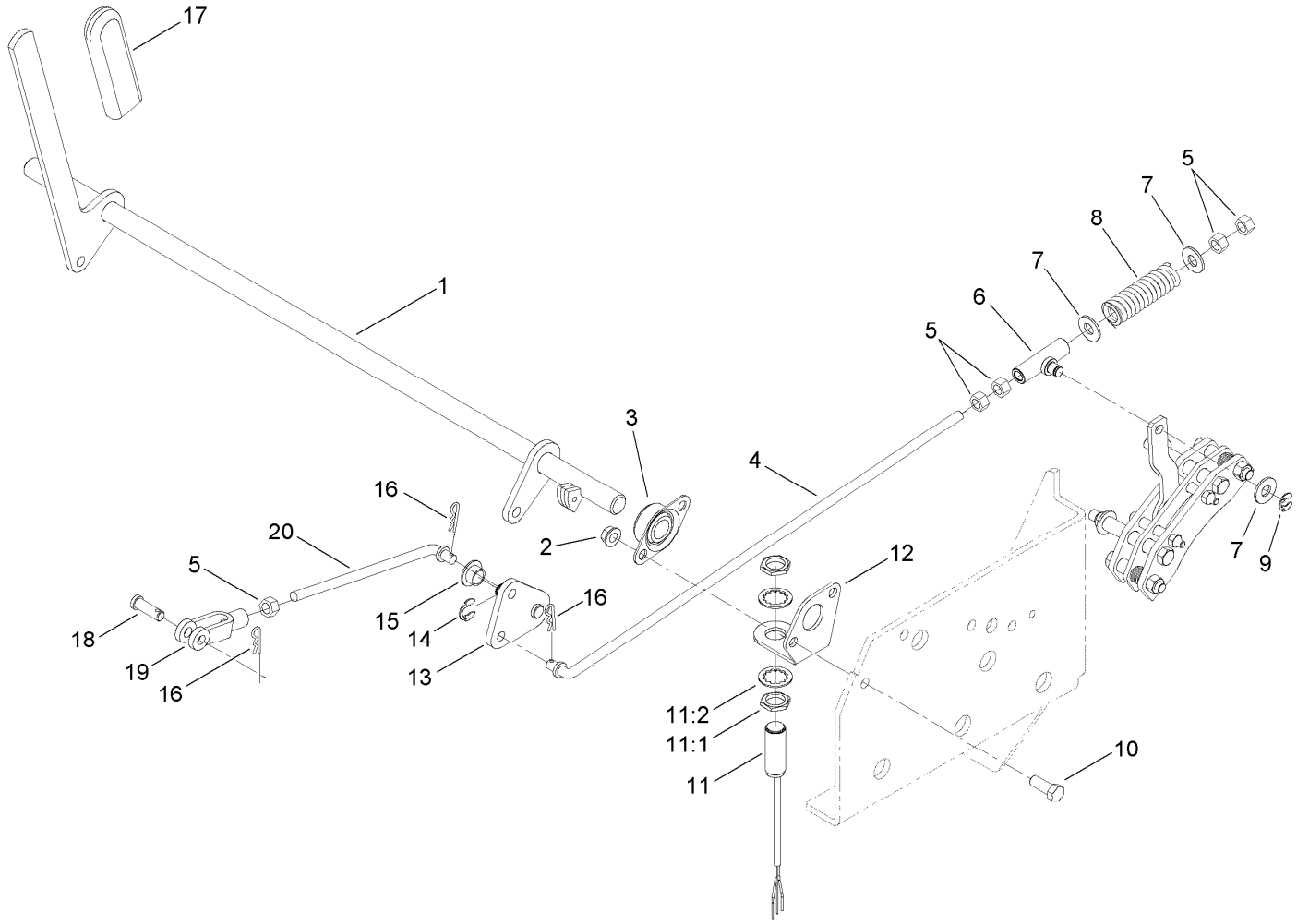
LH Brake Caliper Assembly No. 120-0013

Ref.	*Part Number*	*Qty.*	*Description*
1	120-0015	1	Replacement Brake Pad Service Kit



RH Brake Caliper Assembly No. 120-0014

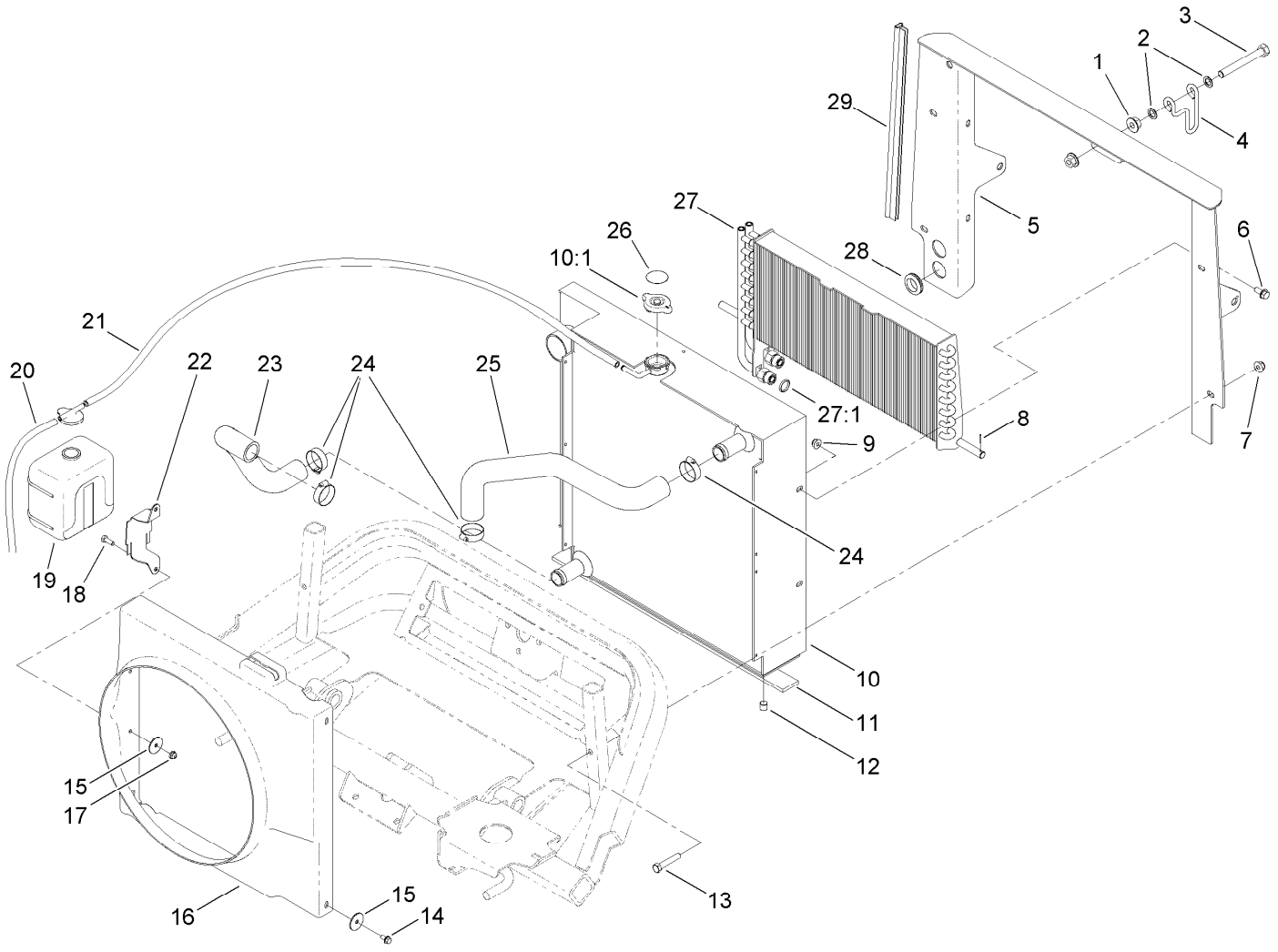
Ref.	*Part Number*	*Qty.*	*Description*
1	120-0015	1	Replacement Brake Pad Service Kit



Brake Handle Assembly

Ref.	Part Number	Qty.	Description
1	117-5582-03	1	Handle-Brake
2	3290-357	4	Nut-HHF, Whiz
3	1-633102	2	Bearing-Flange, Side
4	120-0009	2	Rod-Brake
5	3219-3	10	Nut-Hex
6	112-1676	2	Swivel
7	3256-4	6	Washer-Flat
8	109-2230	2	Spring-Compression
9	32151-47	2	Ring-Retaining
10	323-6	4	Screw-HH
11	115-5300	1	Proximity Switch ASM

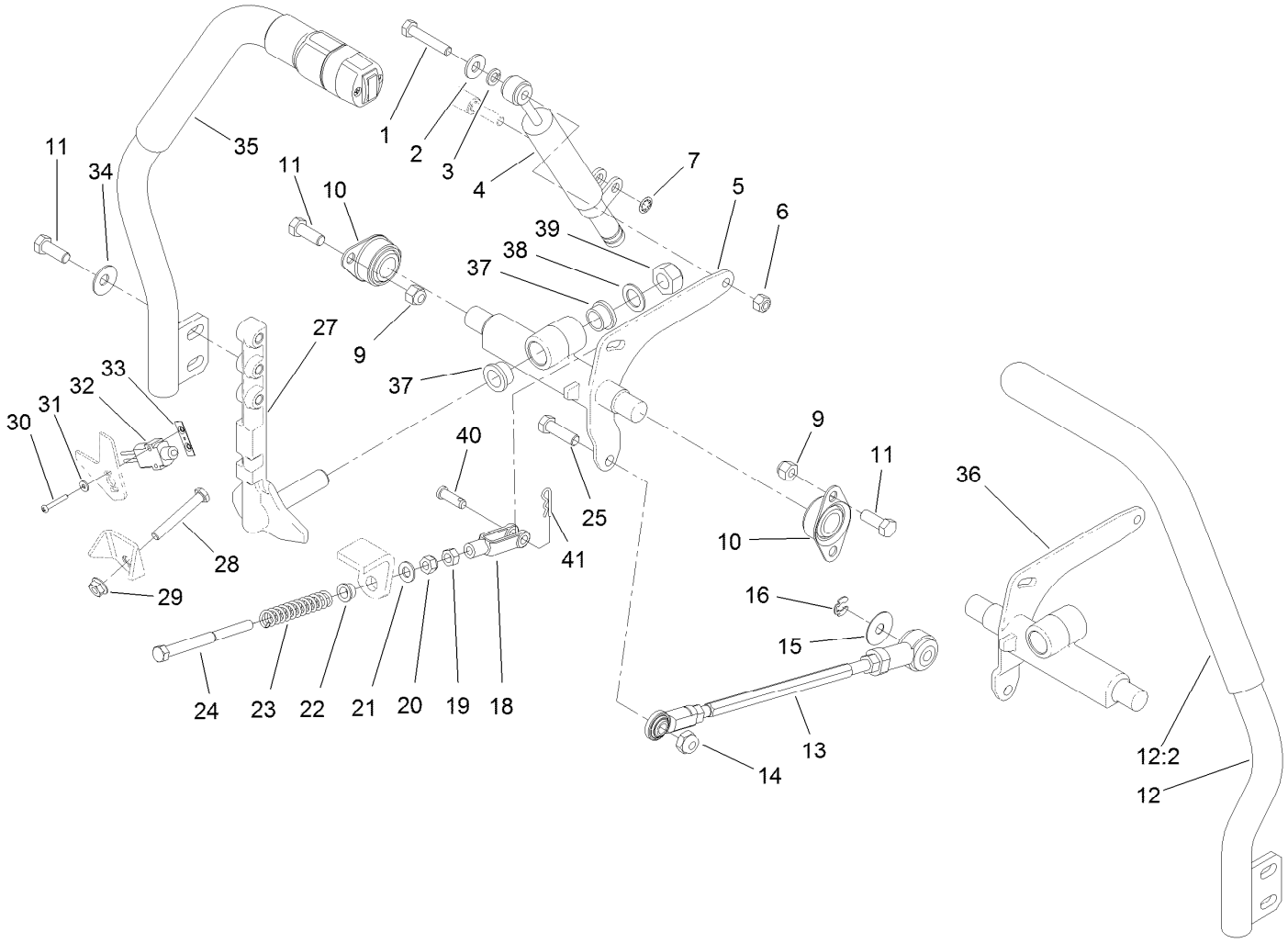
Ref.	Part Number	Qty.	Description
11:1	117-3207	2	Nut-Hex
11:2	117-3208	2	Washer-Lock, Internal Tooth
12	117-5572	1	Bracket-Switch
13	120-0022	2	Pivot-Brake
14	32151-68	2	Ring-Retaining
15	1-513140	4	Bearing-Control
16	3290-307	6	Pin-Hair
17	1-633268	1	Grip-Lever
18	1-808285	2	Pin-Clevis
19	1-633131	2	Yoke-Linkage, Brake
20	120-0023	2	Rod-Brake



Radiator and Oil Cooler Assembly

Ref.	Part Number	Qty.	Description
1	32128-49	2	Nut-HHF
2	41-8440	2	Washer
3	325-17	1	Screw-HH
4	104-5429	1	Clamp-Form, Wire
5	110-8277-03	1	Frame-Radiator
6	3234-5	4	Screw-HHF
7	104-8301	4	Nut-Flange, NI
8	32121-107	1	Pin-Roll, Slotted
9	104-8300	4	Nut-Flange, NI
10	117-5135	1	Radiator
10:1	121-3518	1	Cap-Radiator
11	108-9935	1	Strip-Foam
12	99-8551	1	Plug-Pipe
13	323-10	4	Screw-HH
14	32104-116	4	Screw-HF
15	3256-55	6	Washer-Flat

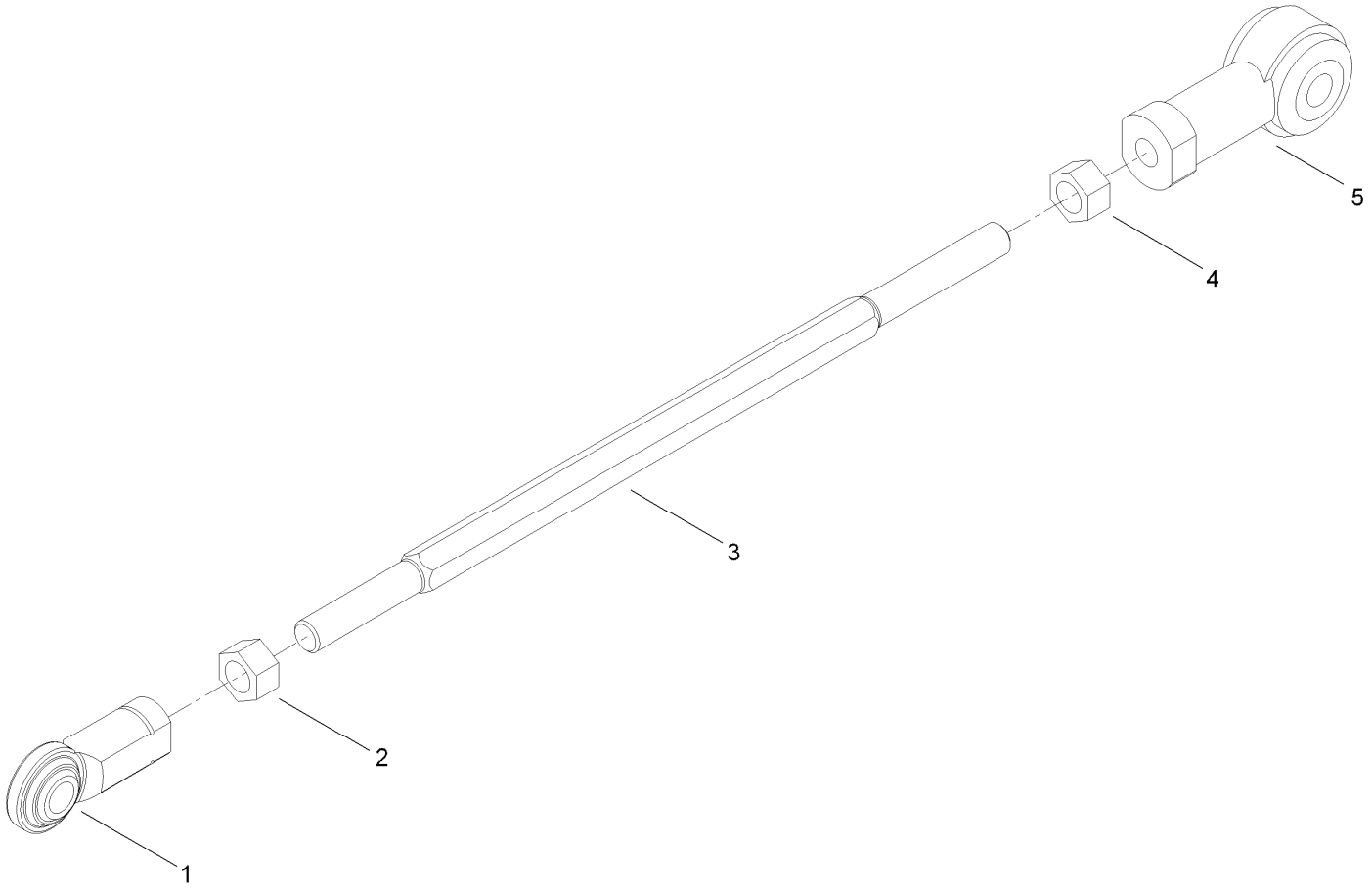
Ref.	Part Number	Qty.	Description
16	117-9232	1	Shroud-Fan
17	104-7201	2	Nut-HF
18	321-4	2	Screw-HH
19	108-0638	1	Bottle-Overflow
20	108-3284	1	Hose-Fuel
21	109-0274	1	Hose-Fuel
22	108-9930-03	1	Bracket-Bottle
23	105-7283	1	Hose-Radiator, Lower
24	2412-34	4	Clamp-Hose
25	105-7282	1	Hose-Radiator, Upper
26	106-6755	1	Decal-Cap, Radiator
27	112-1684	1	Cooler-Oil
27:1	237-30	2	O-Ring
28	240-5	2	Grommet
29	107-2269	2	Seal-Bulb



Traction Control Assembly

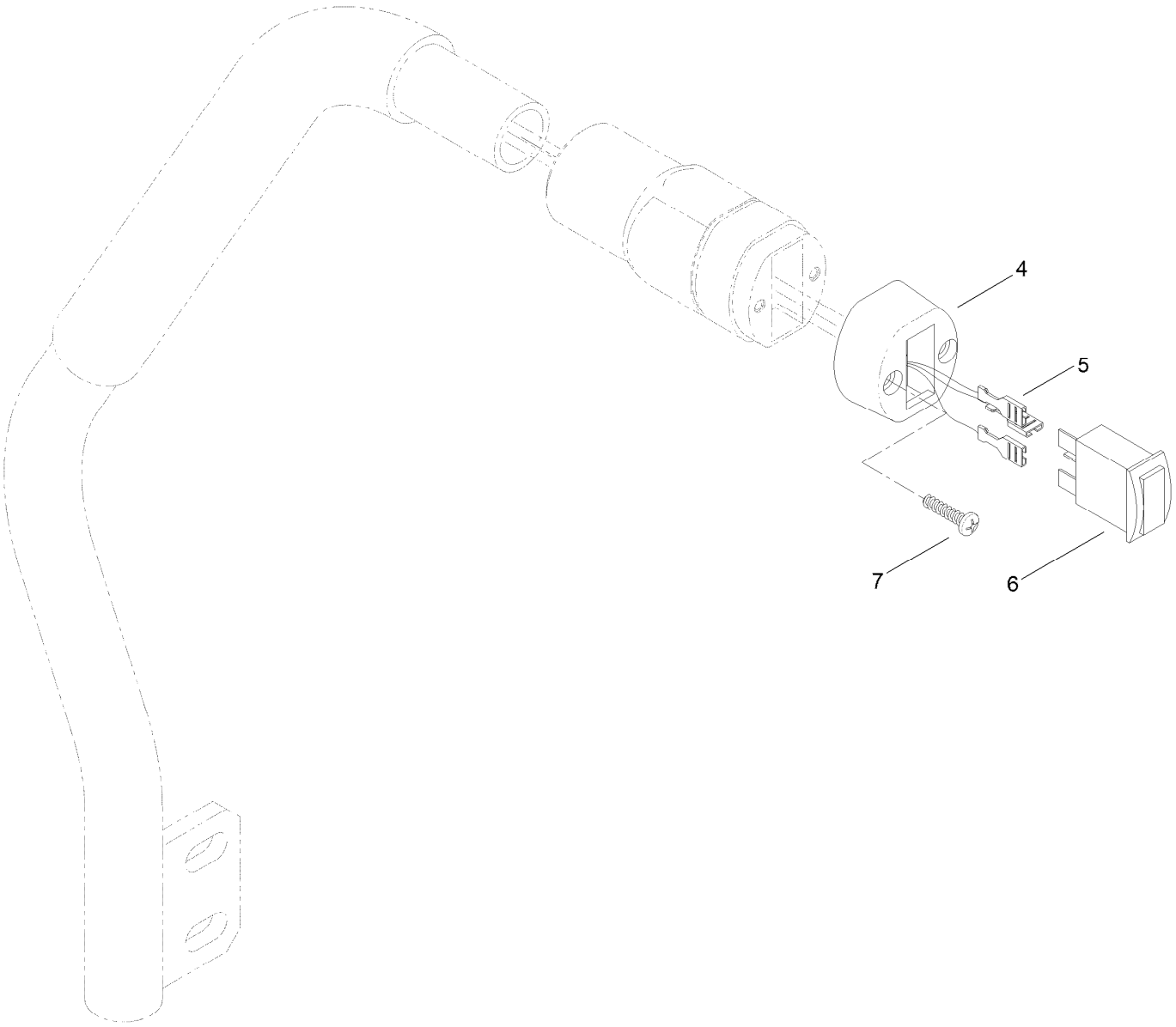
Ref.	Part Number	Qty.	Description
1	322-9	2	Screw-HH
2	3256-3	2	Washer-Flat
3	3253-4	4	Washer-Lock
4	105-7280	2	Damper
5	120-5557-03	1	Hub-Lever, RH
6	3296-29	2	Nut-Lock, NI
7	32151-72	2	Ring-Retaining
9	3296-39	8	Nut-Lock, NI
10	1-633102	4	Bearing-Flange, Side
11	323-6	12	Screw-HH
12	125-2688	1	LH Lever ASM
12:2	125-2704	1	Grip-Foam
13	112-5099	2	Link ASM
14	3296-44	2	Nut-Lock, NI
15	105-6814	2	Washer-Plain
16	32151-47	2	Ring-Retaining
18	1-303105	2	Yoke-Adjustable
19	3219-2	2	Nut-Hex
20	3296-4	2	Nut-Lock
21	3256-23	2	Washer-Flat

Ref.	Part Number	Qty.	Description
22	1-603735	2	Bushing-Flanged
23	1-603807	2	Spring-Return, Neutral
24	1-603737	2	Bolt-Return, Neutral
25	323-7	2	Screw-HH
27	120-5562-03	2	Lever-Control, Motion
28	9114524	2	Bolt-TAP, HH
29	32128-26	2	Nut-Flange
30	3250-35	4	Screw-PPH
31	3256-53	4	Washer-Flat
32	99-3410	2	Switch
33	108-9824	2	Nut-Switch
34	3290-461	4	Washer-Spring
35	125-2687	1	RH Lever ASM
36	120-5555-03	1	Hub-Lever, LH
37	105-3455	4	Bushing
38	105-3481	4	Washer-Thrust
39	32152-6	2	Nut-Lock, Cone
40	283-1	2	Pin-Clevis
41	3290-307	2	Pin-Hair



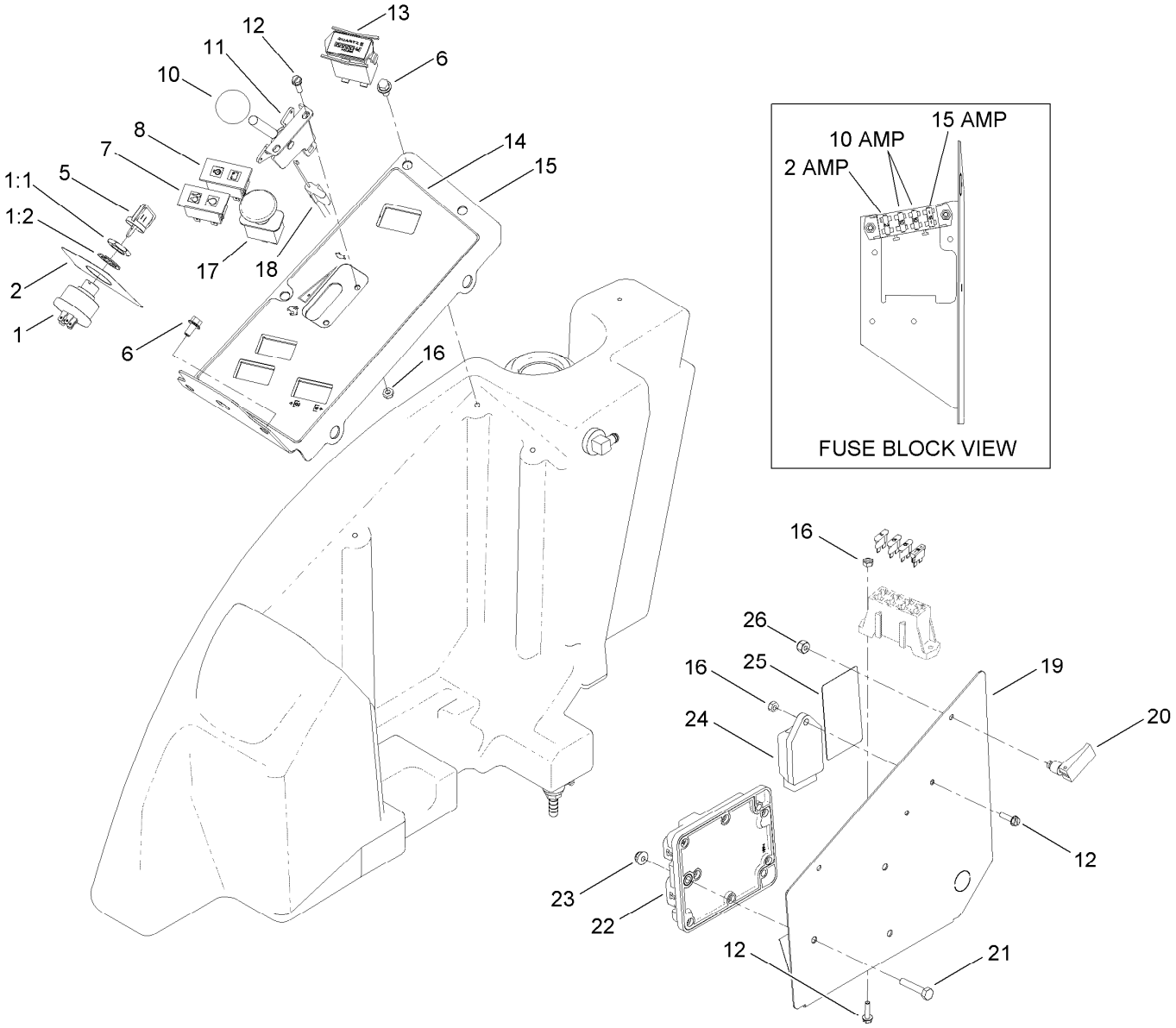
Link Assembly No. 112-5099

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



RH Lever Assembly No. 125-2687

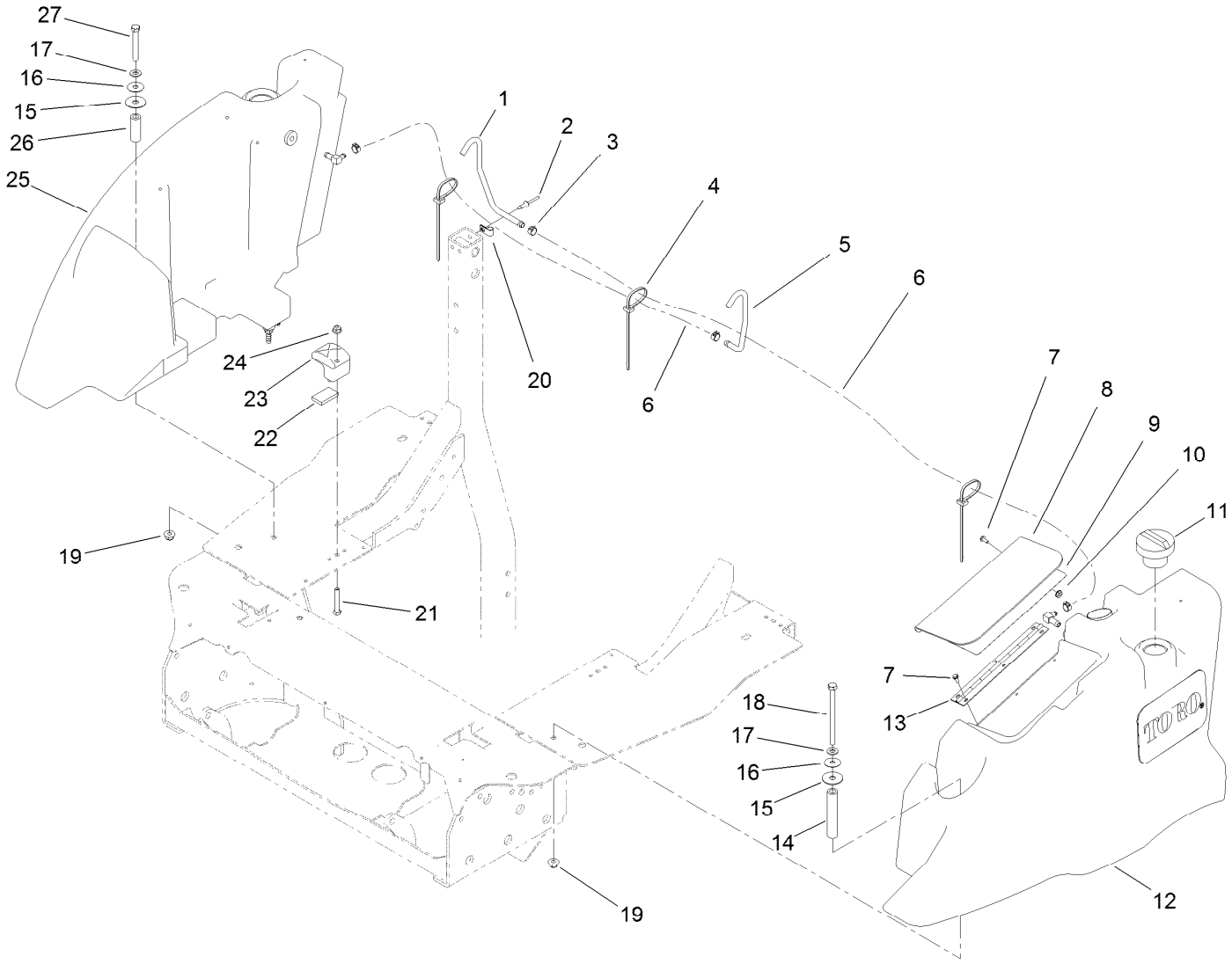
Ref.	*Part Number*	*Qty.*	*Description*
4	121-3399	1	Cap-Switch
5	119-4382	1	Harness-Control Handle
6	125-2702	1	Switch, Spst (On)-Off-On
7	94-4496	2	Screw-PPH



Control Panel Assembly

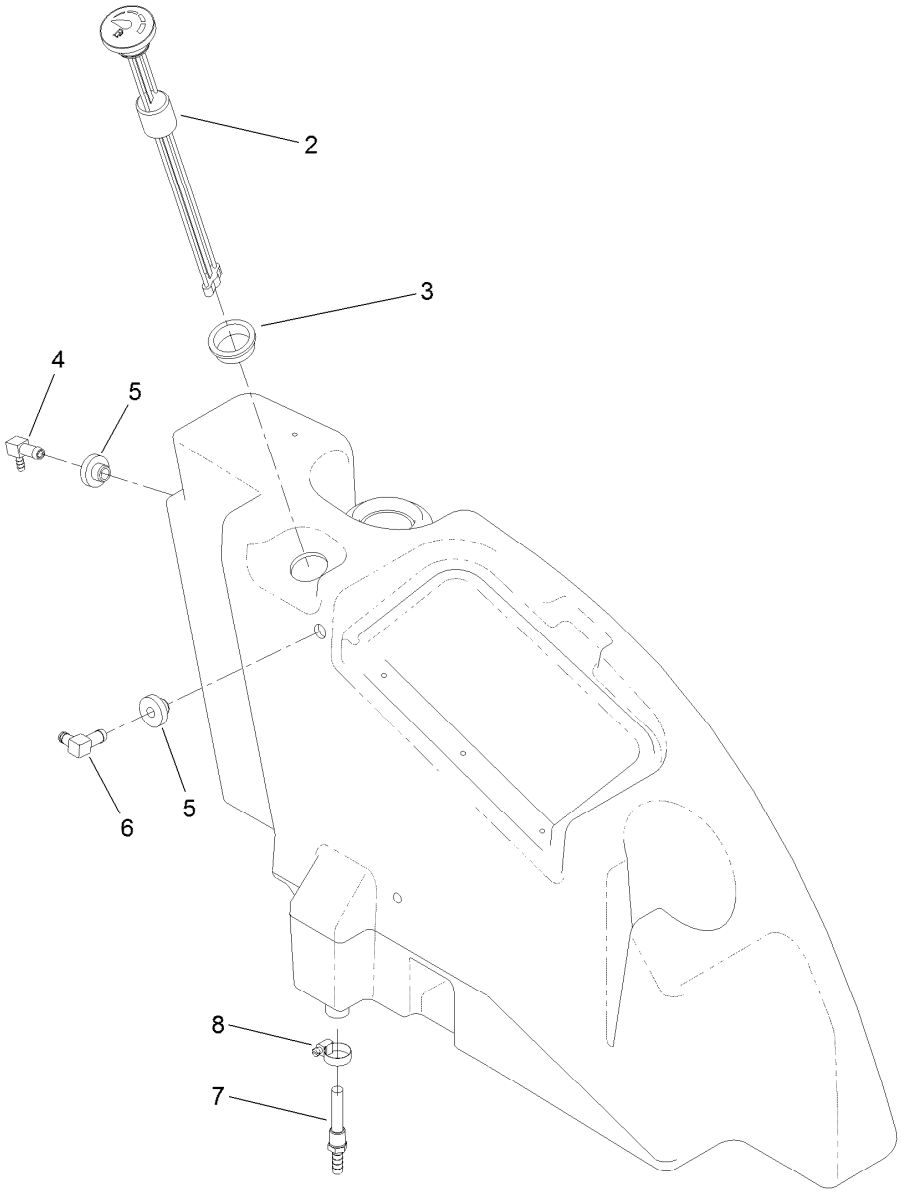
Ref.	Part Number	Qty.	Description
1	104-2541	1	Switch ASM
1:1	218-461	1	Nut-HH
1:2	3254-5	1	Washer-Tooth, Internal
2	110-8254	1	Decal-Start, Control Panel
5	63-8360	2	Key-Ignition
6	3234-13	5	Screw-HHF
7	100-8071	1	Lamp-Warning
8	100-8070	1	Lamp-Warning
10	233-42	1	Knob
11	110-5547	1	Lever-Control
12	32105-13	5	Screw-HWH
13	1-513374	1	Meter-Hour
14	110-8253	1	Decal-Panel, Control

Ref.	Part Number	Qty.	Description
15	110-8256-03	1	Panel-Control
16	3296-2	7	Nut-Lock, NI
17	93-9999	1	Switch-PTO
18	110-5548	1	Cable-Throttle
19	110-8257-03	1	Cover-Panel, Control
20	74-5950	2	Latch-Swell
21	321-13	3	Screw-HH
22	106-9277	1	Module-Control, Standard
23	104-7201	3	Nut-HF
24	107-9097	1	Controller-Glow
25	110-9796	1	Decal-Block, Fuse
26	1-804254	2	Nut-Lock, HH



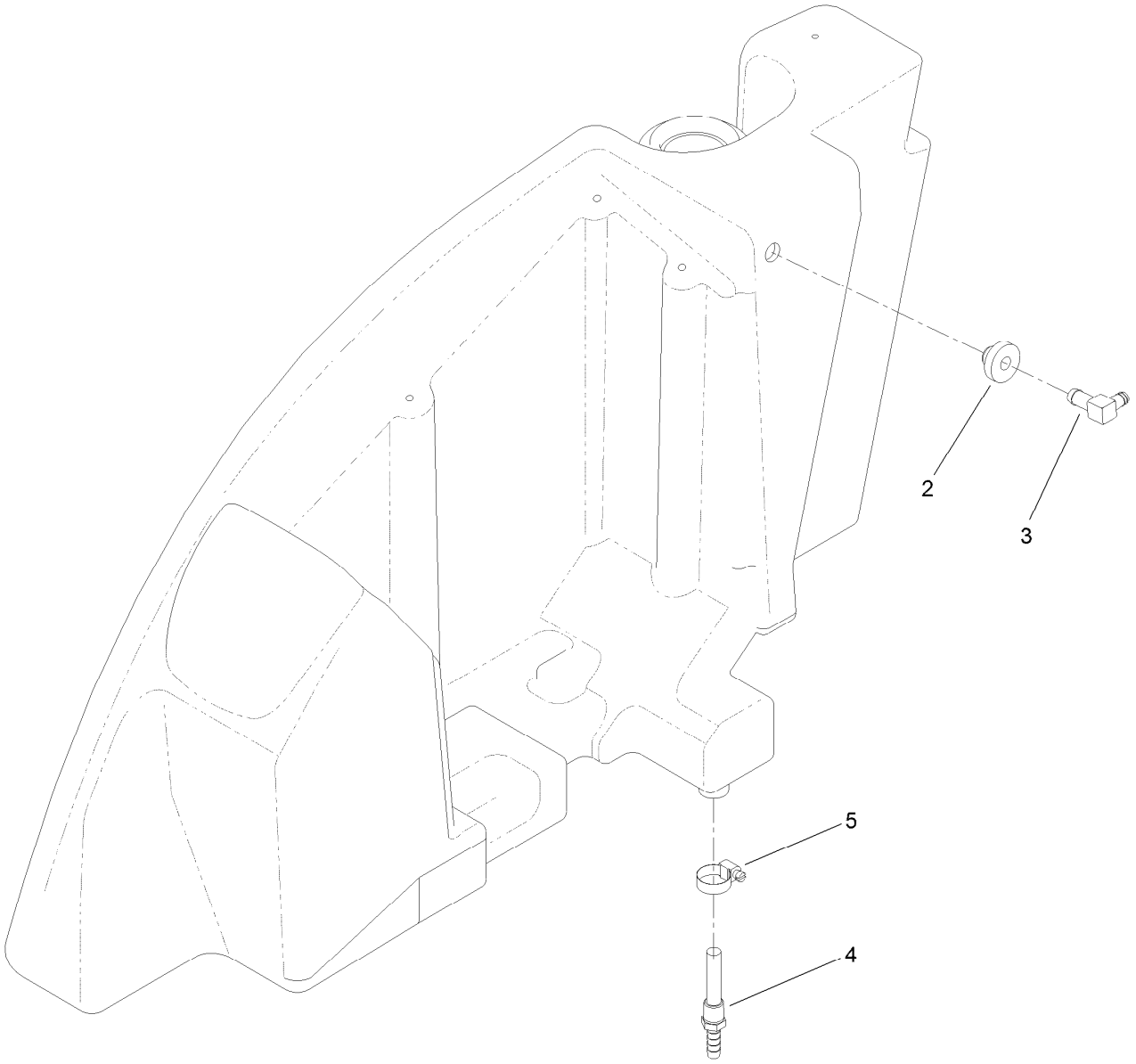
Left-Hand and Right-Hand Fuel Tank Assembly

Ref.	Part Number	Qty.	Description
1	110-8260	1	Tube-Vent, RH
2	3290-412	2	Rivet
3	92-2379	8	Clamp-Hose
4	3290-378	3	Tie-Cable
5	110-8261	1	Tube-Vent, LH
6	110-6186	2	Hose-Fuel
7	112-6349	6	Screw-HWH
8	110-5540-03	1	Cover-Toolbox
9	110-8252	1	Decal-Instructions, Service
10	32149-8	3	Nut-Keps
11	115-5305	2	Cap-Fuel
12	110-8230	1	LH Fuel Tank ASM
13	108-2024	1	Hinge
14	110-5539	1	Spacer
15	95-1905	2	Washer-Rubber
16	105-6814	2	Washer-Plain
17	3256-24	2	Washer-Flat
18	323-39	1	Screw-HH
19	104-8301	2	Nut-Flange, NI
20	2412-89	2	Clamp-R
21	322-10	4	Screw-HH
22	112-9561	4	Pad-Foam
23	107-4543	4	Clamp
24	104-8300	4	Nut-Flange, NI
25	110-8236	1	RH Fuel Tank ASM
26	92-1239	1	Spacer-Support
27	323-13	1	Screw-HH



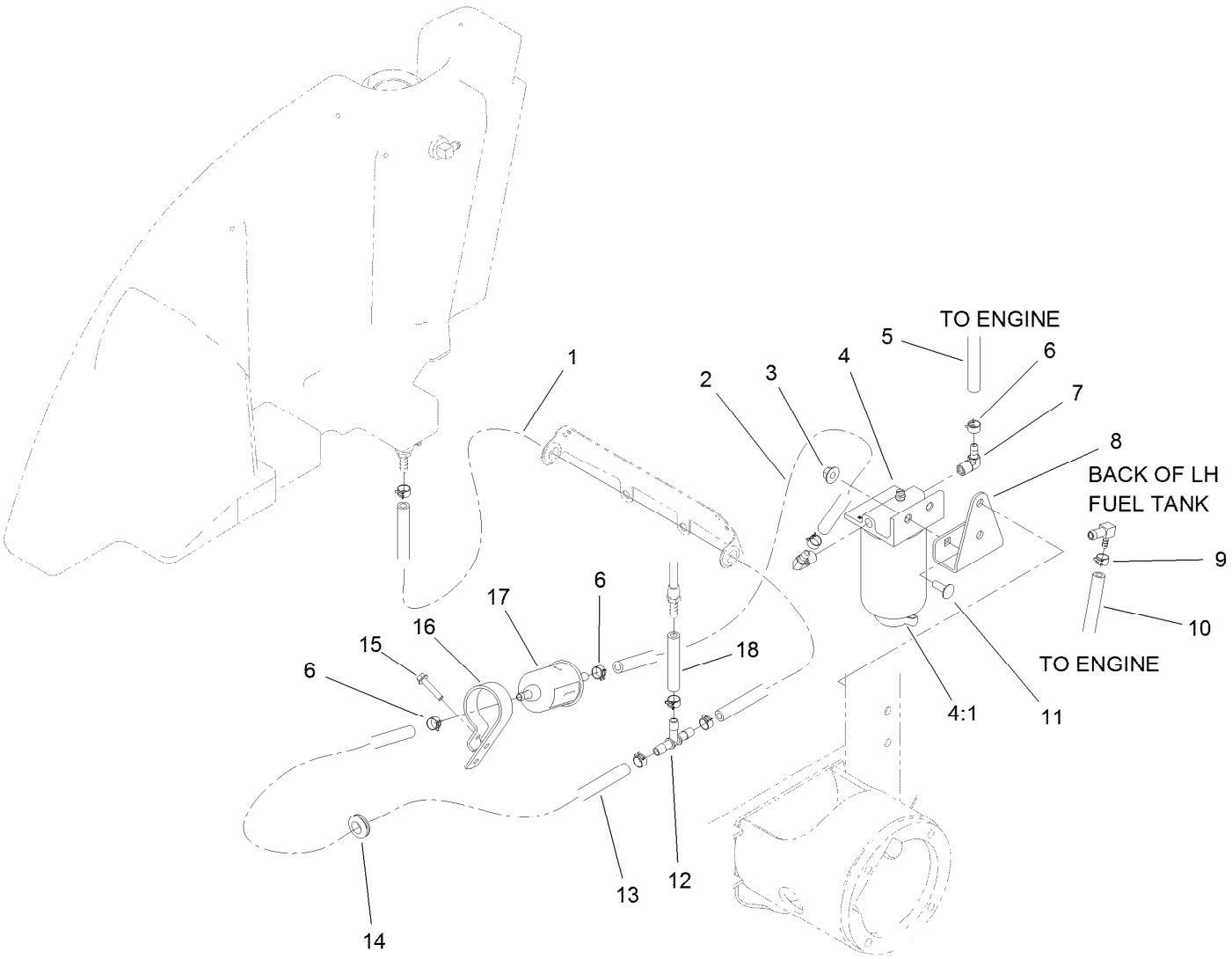
LH Fuel Tank Assembly No. 110-8230

Ref.	*Part Number*	*Qty.*	*Description*
2	110-8262	1	Gauge-Fuel
3	95-8972	1	Grommet
4	104-5228	1	Fitting-Elbow, 90 DEG
5	46-6560	2	Bushing
6	1-643259	1	Fitting-Elbow
7	112-6374	1	Fitting-Strainer
8	2412-36	1	Clamp-Hose



RH Fuel Tank Assembly No. 110-8236

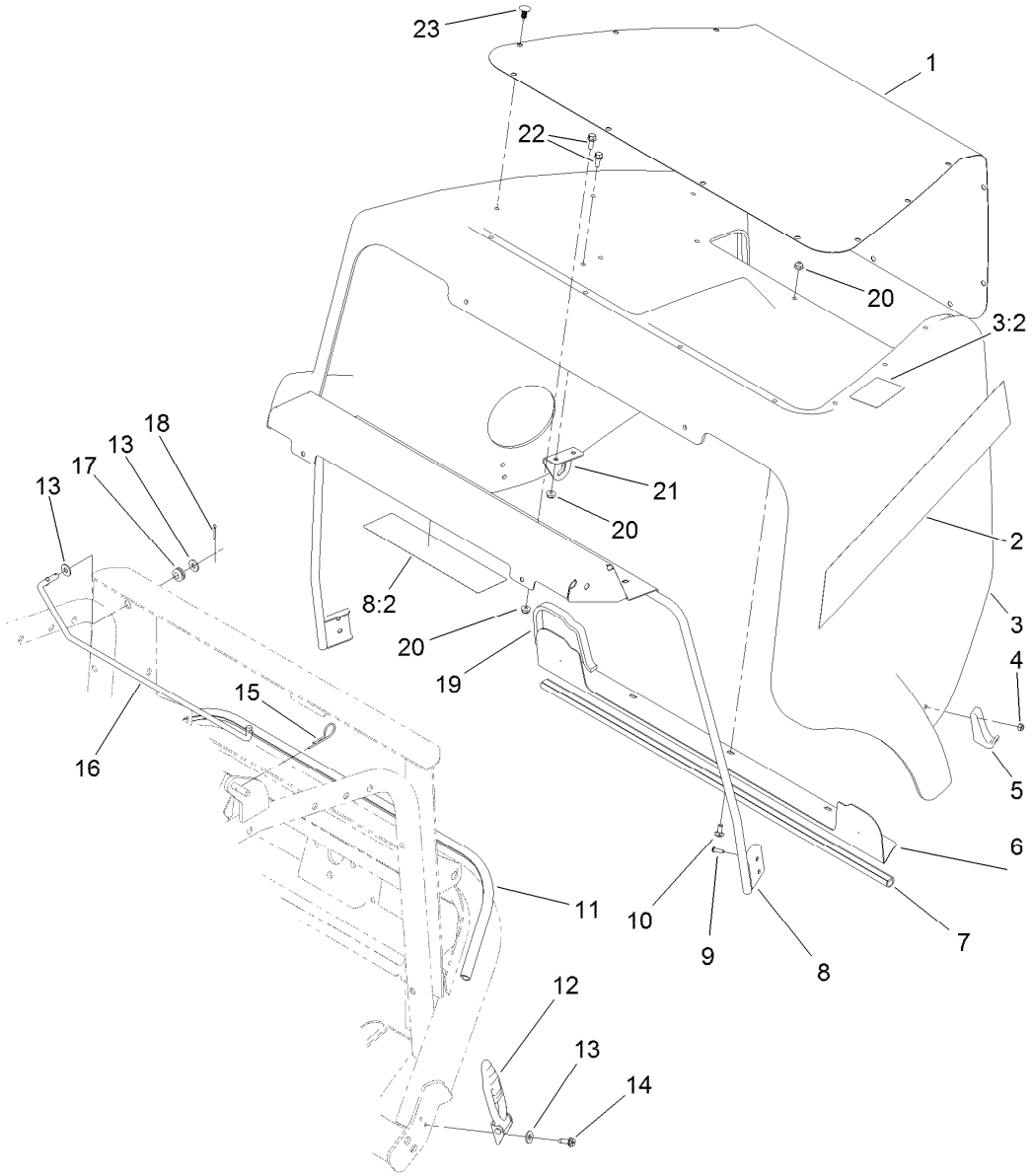
Ref.	*Part Number*	*Qty.*	*Description*
2	46-6560	1	Bushing
3	1-643259	1	Fitting-Elbow
4	112-6374	1	Fitting-Strainer
5	2412-36	1	Clamp-Hose



Fuel Filter / Seperator Assembly

Ref.	Part Number	Qty.	Description
1	110-6186	1	Hose-Fuel
2	110-8752	1	Hose-Fuel
3	32128-44	2	Nut
4	110-9044	1	Seperator Filter ASM
4:1	110-9049	1	Filter-Spin On
5	110-4104	1	Hose-Fuel
6	92-2379	8	Clamp-Hose
7	353-781	2	Fitting-Elbow
8	114-4058-03	1	Mount-Separator
9	2412-80	2	Clamp-Hose

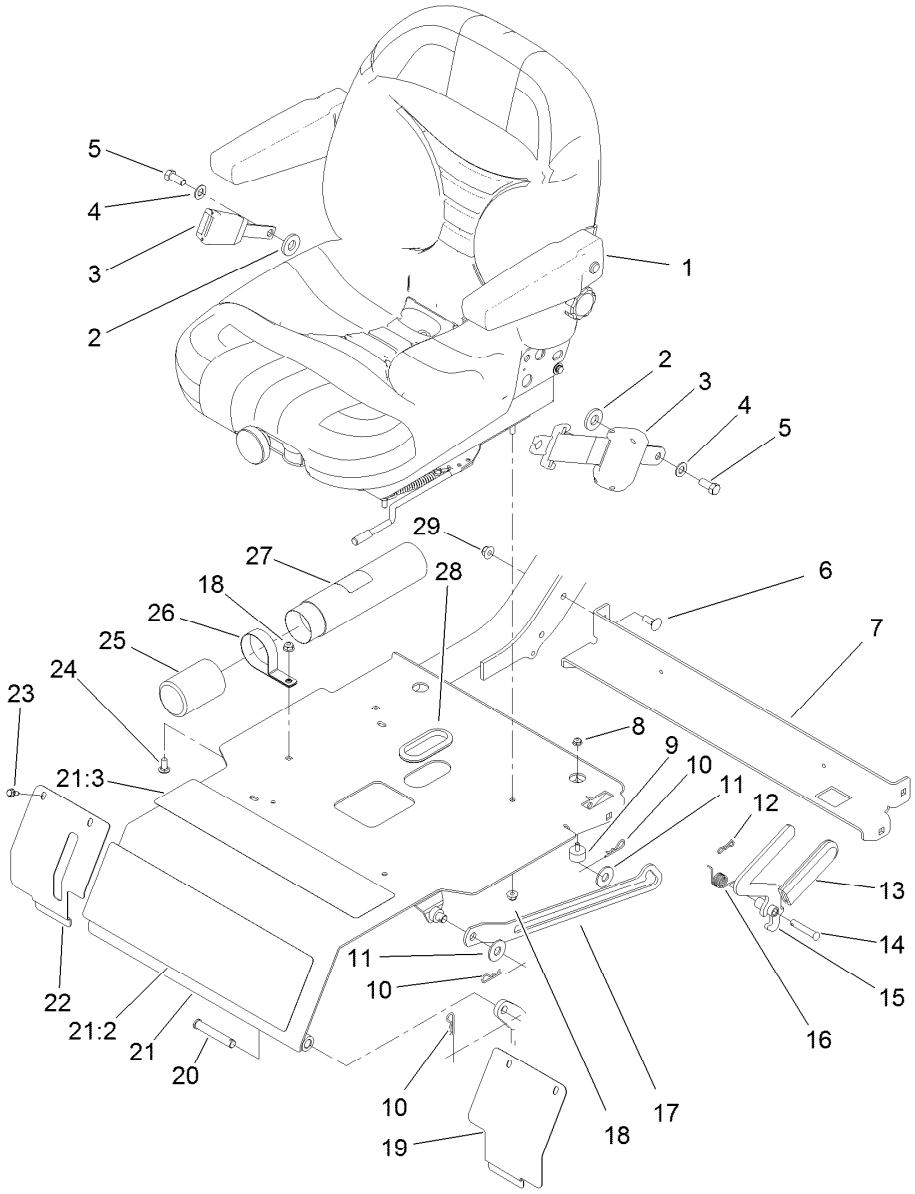
Ref.	Part Number	Qty.	Description
10	110-8255	1	Hose-Fuel
11	3230-10	2	Screw-CARR
12	354-107	1	Fitting-HYD, Tee
13	114-4028	1	Hose-Fuel
14	237-124	1	Grommet
15	32144-110	1	Screw-HWH
16	110-8817	1	Bracket-Pump, Fuel
17	110-8806	1	Pump-Fuel
18	112-6388	1	Hose-Fuel



Hood and Screen Assembly

Ref.	Part Number	Qty.	Description
1	115-1446-03	1	Screen-Intake
2	110-5545	2	Decal-Hood
3	112-6311	1	Hood ASM
3:2	106-6754	1	Decal-Danger
4	3296-2	4	Nut-Lock, NI
5	103-2897	2	Latch-Catch
6	110-8285-03	1	Angle-Seal
7	110-8287	1	Bulb-Seal
8	110-9795	1	Support-Hood
8:2	110-9781	1	Decal-Danger
9	3274-39	4	Screw-HSBH
10	3229-11	3	Screw-CARR
11	112-1694	1	Seal-Bulb

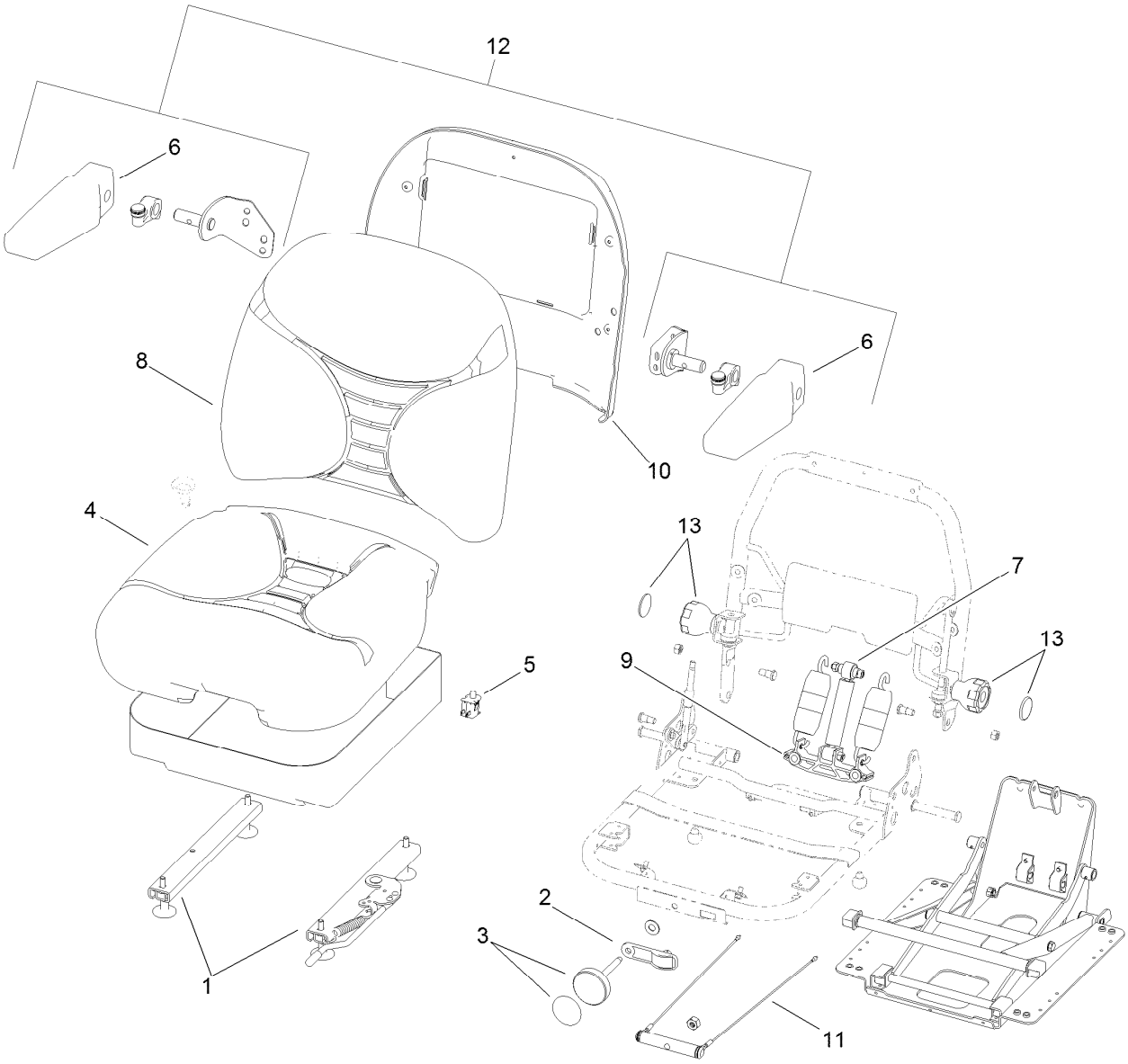
Ref.	Part Number	Qty.	Description
12	103-2898	2	Latch-Rubber
13	3256-2	4	Washer-Flat
14	32104-95	2	Screw-HWH
15	3290-255	1	Pin-Cotter, Hair
16	110-8291	1	Rod-Prop, Hood
17	237-136	1	Grommet
18	3272-6	1	Pin-Cotter
19	110-8288	2	Seal-Foam
20	104-7201	11	Nut-HF
21	108-9811	1	Support-Rod, Prop
22	3234-33	8	Screw-HHF
23	117-2382	17	Plug-Plastic



Seat and Seat Plate Assembly

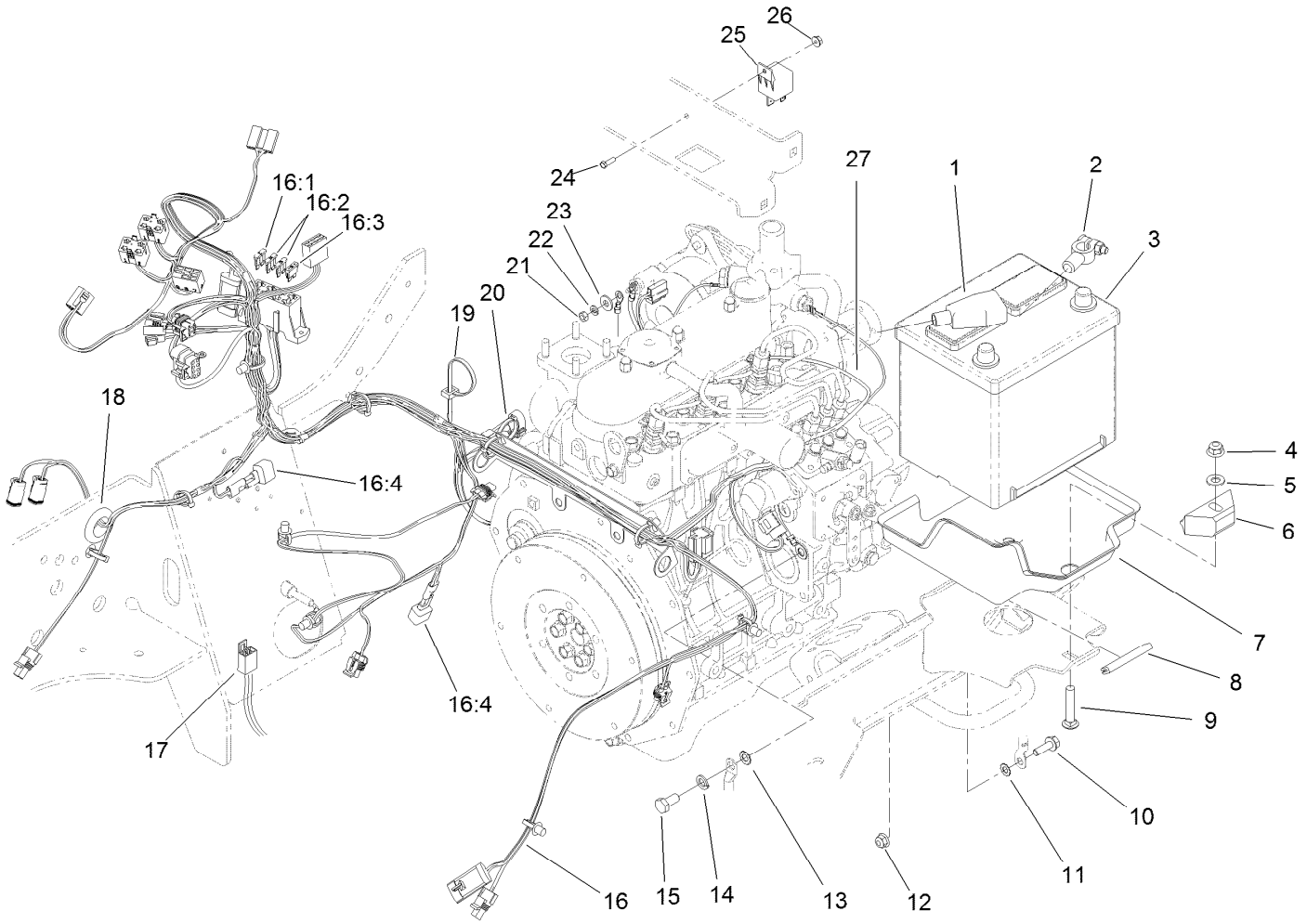
Ref.	Part Number	Qty.	Description
1	107-2286	1	Seat ASM
2	99-7667	2	Washer-Flat
3	110-0413	1	Seatbelt-Retractable
4	3256-25	2	Washer-Flat
5	3212-4	2	Screw-HH
6	3231-2	4	Bolt-CARR
7	120-0095-03	1	Support-Seat
8	104-7201	2	Nut-HF
9	240-14	2	Bumper-Rubber
10	3290-467	4	Pin-Hair
11	3256-6	2	Washer-Flat
12	119-1415	1	Pin-Cotter, Locking
13	1-633268	1	Grip-Lever
14	283-82	1	Pin-Clevis
15	121-3390-03	1	Lever-Seat
16	121-3386	1	Spring-Torsion

Ref.	Part Number	Qty.	Description
17	120-0097-03	1	Prop-Seat
18	104-8300	6	Nut-Flange, NI
19	120-9191-03	1	Cover-LH
20	283-55	2	Pin-Clevis
21	120-9197	1	Seat Plate ASM
21:2	120-9195	1	Decal-Safety
21:3	120-9196	1	Decal-Top Console Ce
22	120-9192-03	1	Cover-RH
23	32144-10	4	Screw-HWH
24	3230-23	2	Screw-CARR
25	104-7048	1	Cap-Housing
26	2412-133	2	R-Clamp
27	104-7050	1	Tube-Manual
28	237-164	1	Grommet
29	104-8301	4	Nut-Flange, NI



Seat Assembly No. 107-2286

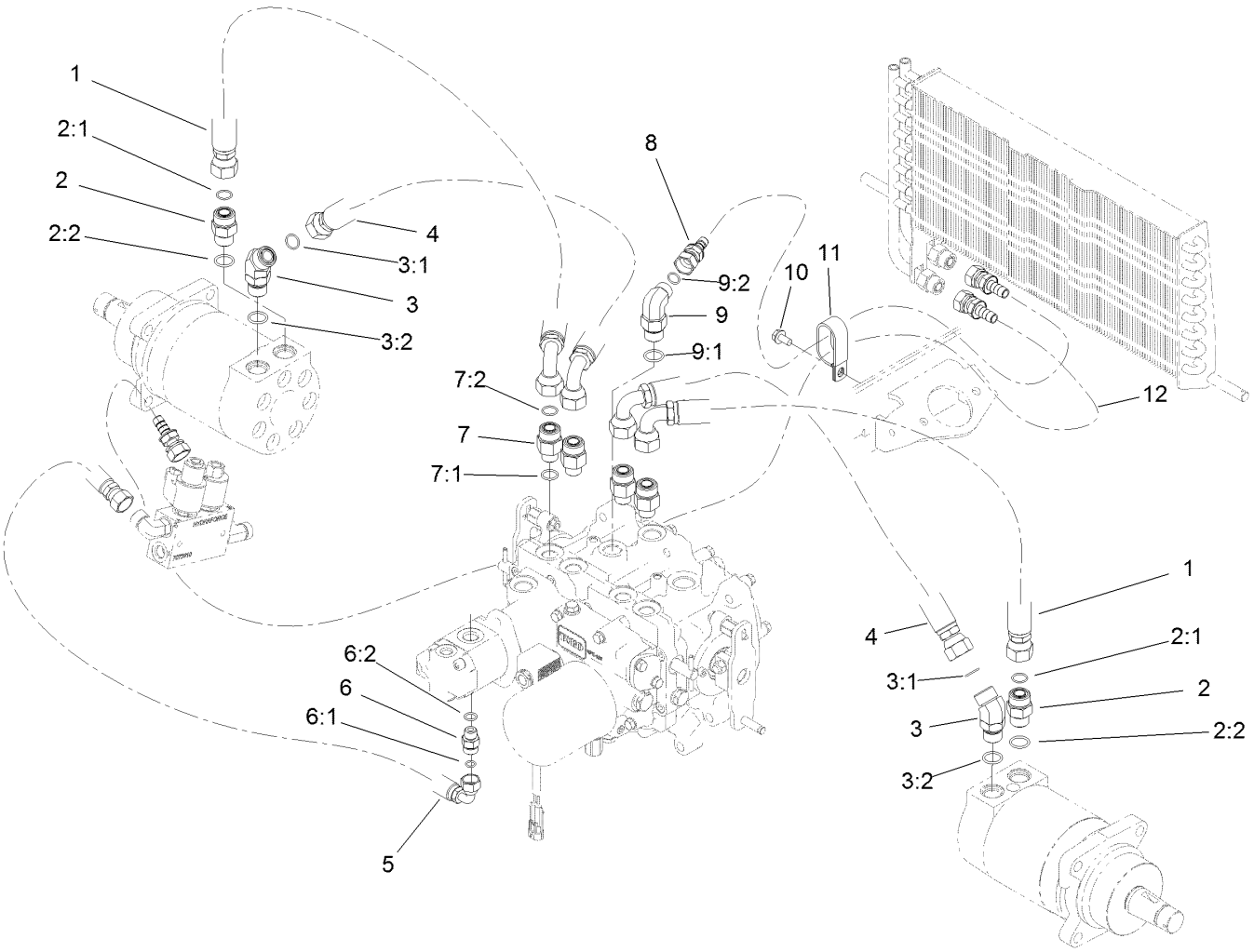
Ref.	*Part Number*	*Qty.*	*Description*
1	107-1880	1	Seat Track Kit
2	107-1885	1	Weight Indicator Kit
3	121-9431	1	Knob Kit
4	107-1883	1	Bottom Cushion Kit
5	82-2190	1	Switch-Bail
6	107-1887	2	Pad-Armrest
7	107-1884	1	Shock Absorber Kit
8	107-1882	1	Back Cushion Kit
9	109-3343	1	Spring And Saddle Kit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



Electrical Assembly

Ref.	Part Number	Qty.	Description
1	119-1796	1	Cable-Battery, Positive
2	105-0040	1	Cable-Battery, Negative
3	106-5187	1	Battery-Dry
4	104-8301	1	Nut-Flange, NI
5	3256-24	1	Washer-Flat
6	66-2490	1	Retainer-Battery
7	108-9928	1	Tray-Battery
8	110-8276	1	Trim-Hold Down, Battery
9	3231-6	1	Screw-CARR
10	3234-17	1	Screw-HHF
11	3255-8	1	Washer-Lock
12	104-8300	1	Nut-Flange, NI
13	3255-9	1	Washer-Lock
14	48-9590	1	Washer-Lock
15	63-7790	1	Screw-Cap
16	119-4380	1	Harness-Wire, Main

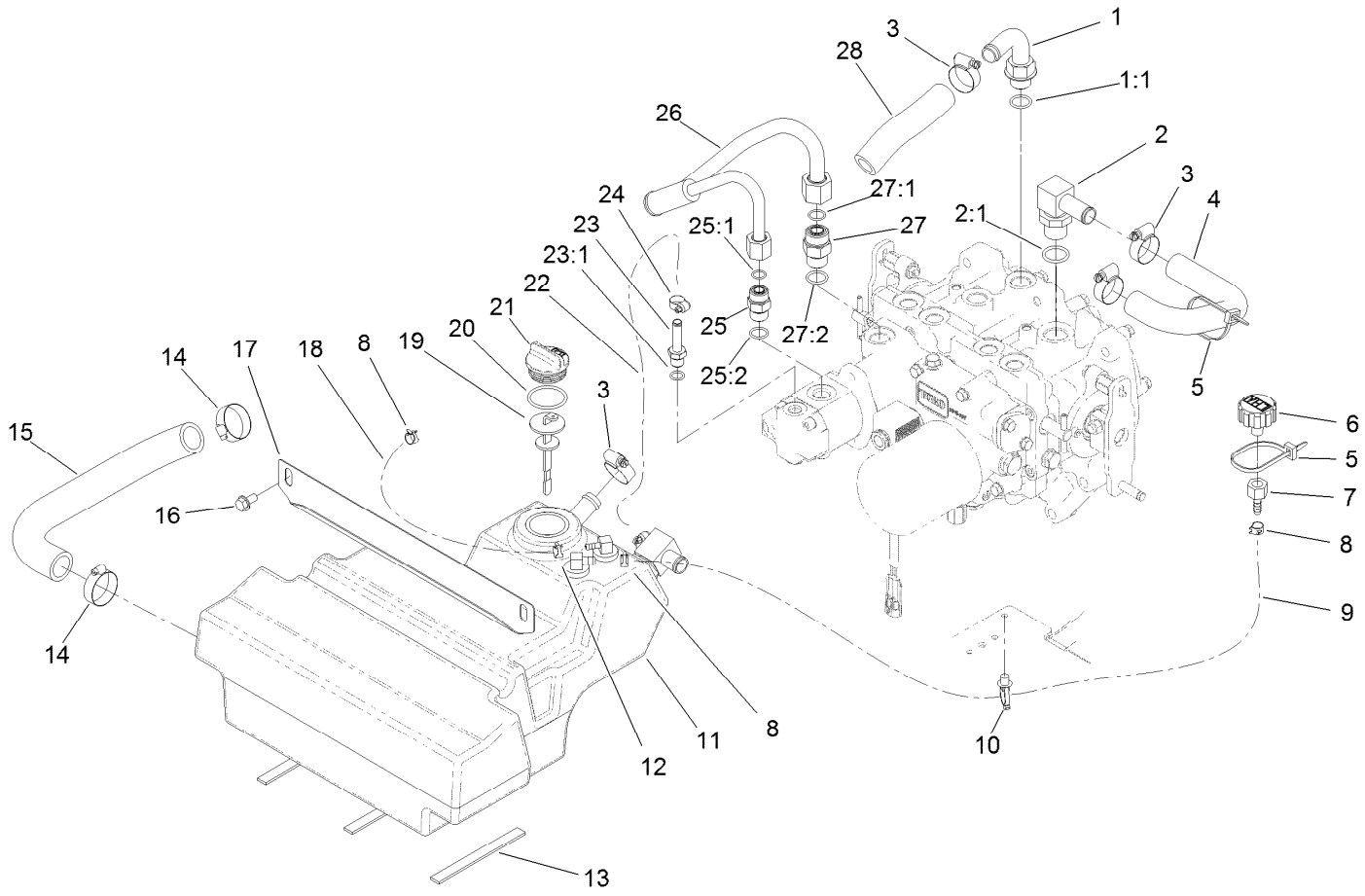
Ref.	Part Number	Qty.	Description
16:1	94-6710	1	Fuse-2 Amp
16:2	218-578	2	Fuse-Blade, 10 Amp
16:3	109355	1	Fuse-Blade, 15 Amp
16:4	100-4918	2	Diode-Over Molded
17	108-8657	1	Harness-Wire, Seat
18	237-165	1	Grommet
19	3290-378	5	Tie-Cable
20	32180-030	2	Clip-Tie
21	33013-00	1	Nut-Hex
22	43-5930	1	Washer-Lock, Spring
23	3256-2	1	Washer-Flat
24	3290-134	2	Screw
25	99-7435	1	Relay-Power
26	3290-148	2	Nut-HF
27	99-3441	1	Harness-Wire, Fusible Link



Transmission and Oil Cooler Hydraulic Assembly

Ref.	Part Number	Qty.	Description
1	112-1683	2	Hose
2	340-7	2	Adapter
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	340-14	2	Fitting-HYD, 45 DEG
3:1	237-65	1	O-Ring
3:2	237-80	1	O-Ring
4	110-5518	2	Hose
5	94-5961	1	Hose
6	340-2	1	Fitting-HYD, Straight
6:1	237-22	1	O-Ring

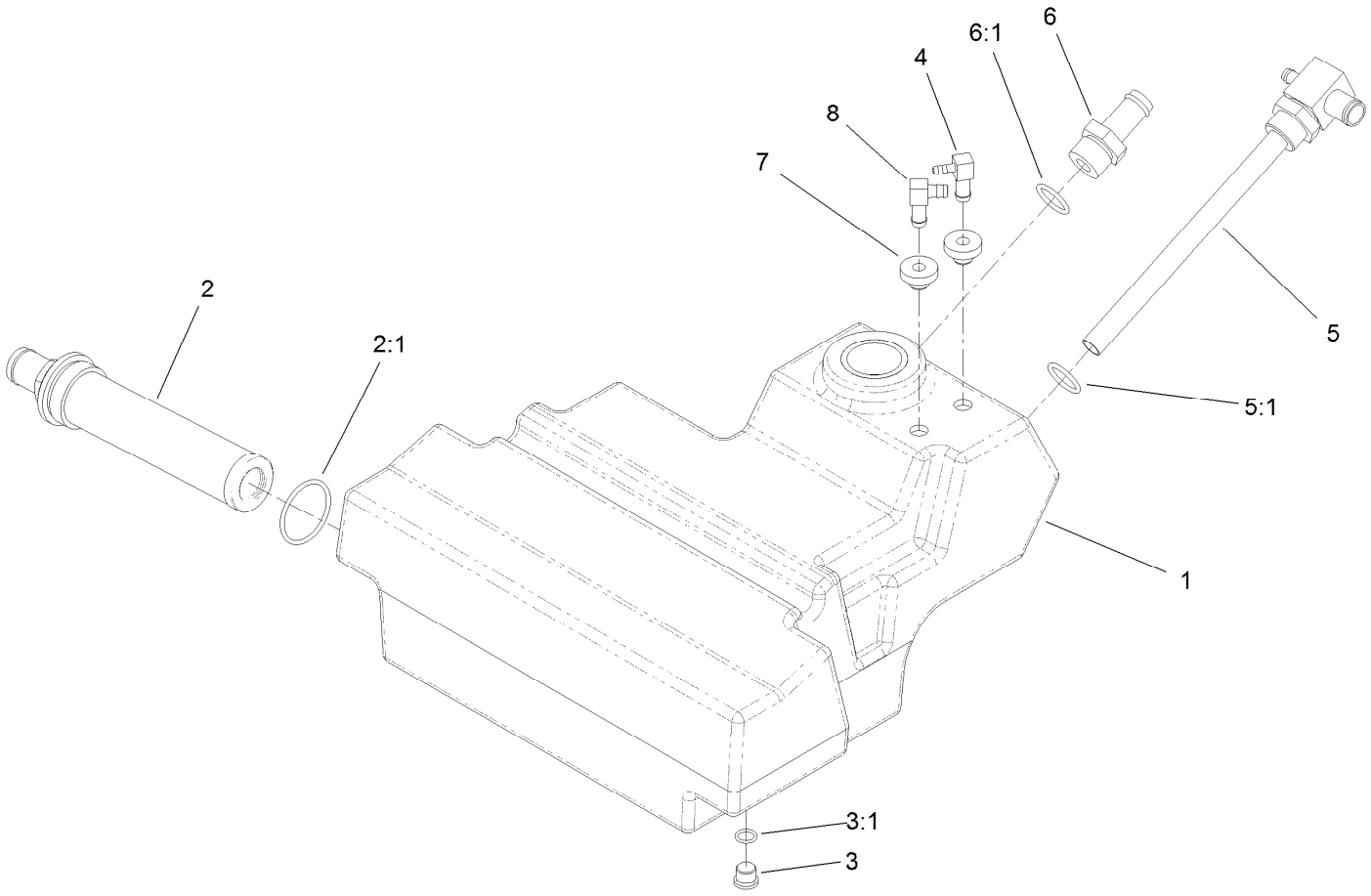
Ref.	Part Number	Qty.	Description
6:2	237-42	1	O-Ring
7	340-155	4	Fitting-HYD, Straight
7:1	237-79	1	O-Ring
7:2	237-151	1	O-Ring
8	110-5542	1	Hose-HYD
9	340-105	1	Fitting-HYD, 90 DEG
9:1	237-80	1	O-Ring
9:2	237-30	1	O-Ring
10	32144-14	1	Screw-HWHTF
11	2412-137	1	Clamp-R, Double
12	110-5543	1	Hose-HYD



Hydraulic Reservoir Assembly

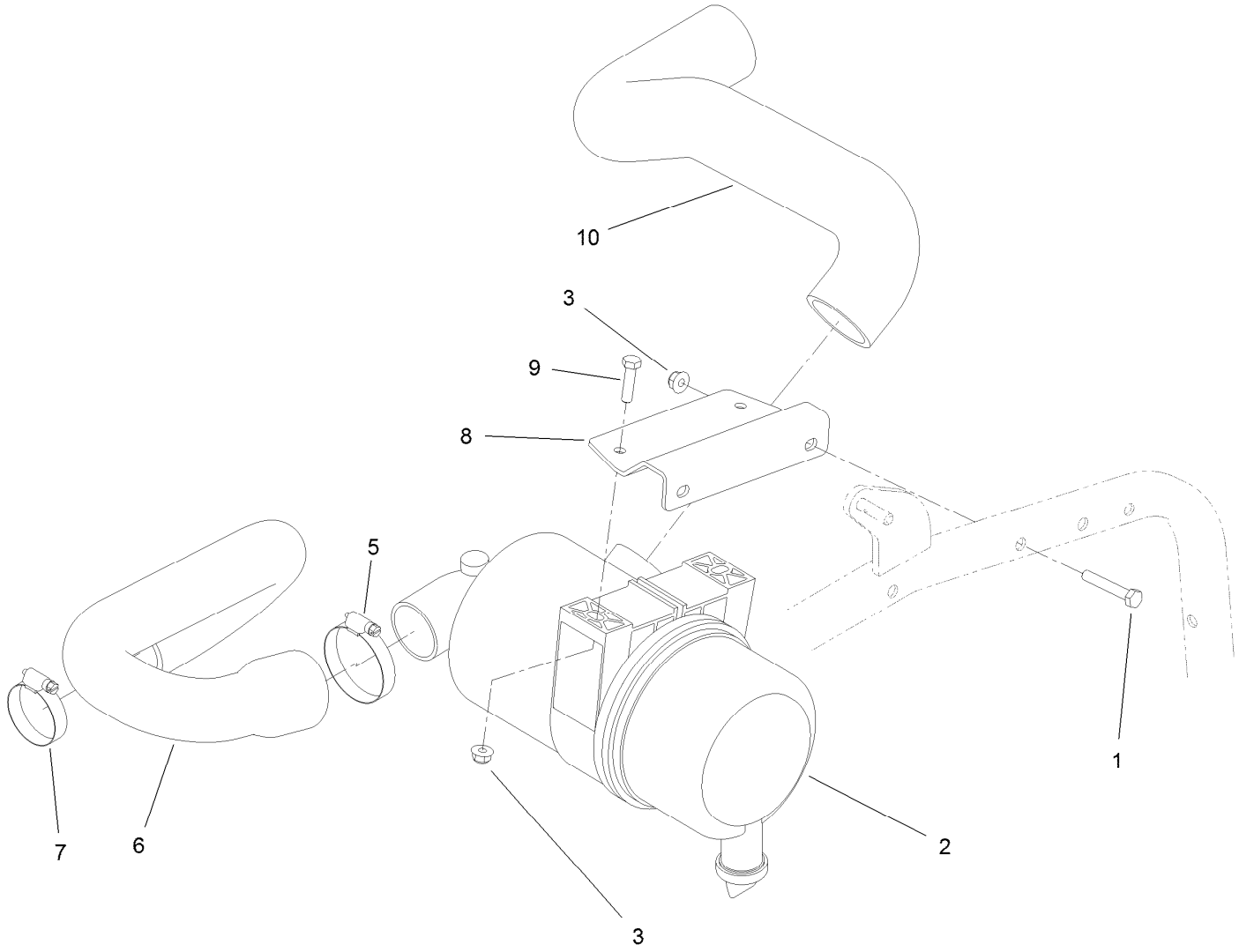
Ref.	Part Number	Qty.	Description
1	110-5522	1	Fitting-Elbow, 90
1:1	237-80	1	O-Ring
2	353-987	1	Fitting-HYD, 90 DEG (Barbed)
2:1	237-81	1	O-Ring
3	2412-129	4	Clamp-Hose
4	110-5524	1	Hose-Return
5	3290-379	2	Tie-Cable
6	68-6150	1	Breather
7	354-95	1	Fitting-Straight
8	92-2379	3	Clamp-Hose
9	110-9662	1	Hose-Fuel
10	32180-030	1	Clip-Tie
11	110-8237	1	HYD Reservoir ASM
12	2412-98	1	Clamp-Hose
13	120-0017	3	Strip-Foam
14	2412-34	2	Clamp-Hose
15	110-5526	1	Hose-Suction

Ref.	Part Number	Qty.	Description
16	32144-14	2	Screw-HWHTF
17	110-5529-03	1	Support-Reservoir
18	109-0299	1	Hose-Fuel
19	112-6365	1	Dipstick
20	94-8166	1	O-Ring
21	93-7498	1	Plug-Plastic
22	94-5625	1	Hose-Overflow, Radiator
23	353-979	1	Fitting-Straight
23:1	237-42	1	O-Ring
24	2412-108	2	Clamp-Worm
25	340-4	1	Fitting-HYD, Straight
25:1	237-30	1	O-Ring
25:2	237-79	1	O-Ring
26	110-5532	1	Tube
27	340-7	1	Adapter
27:1	237-65	1	O-Ring
27:2	237-80	1	O-Ring
28	112-1680	1	Hose-HYD



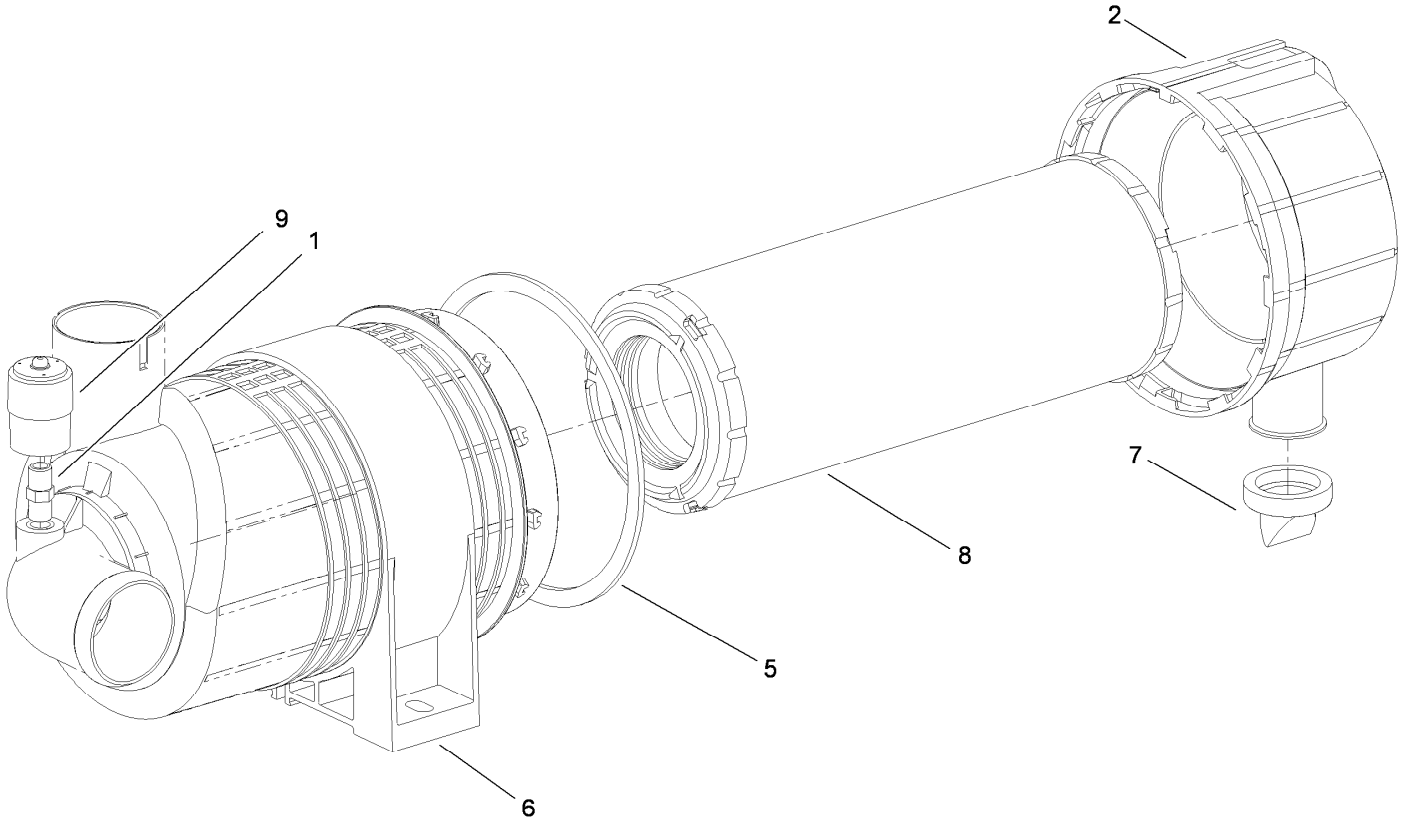
Hydraulic Reservoir Assembly No. 110-8237

Ref.	*Part Number*	*Qty.*	*Description*
1	108-5200	1	Reservoir-HYD
2	104-7546	1	Tank Strainer ASM
2:1	340-136	1	O-Ring
3	353-989	1	Plug-Hex, Hollow
3:1	237-42	1	O-Ring
4	104-5228	1	Fitting-Elbow, 90 DEG
5	108-9894	1	Fitting-Elbow, Special
5:1	237-81	1	O-Ring
6	354-73	1	Fitting-Straight
6:1	237-81	1	O-Ring
7	46-6560	2	Bushing
8	46-6550	1	Fitting-Elbow, 90 DEG



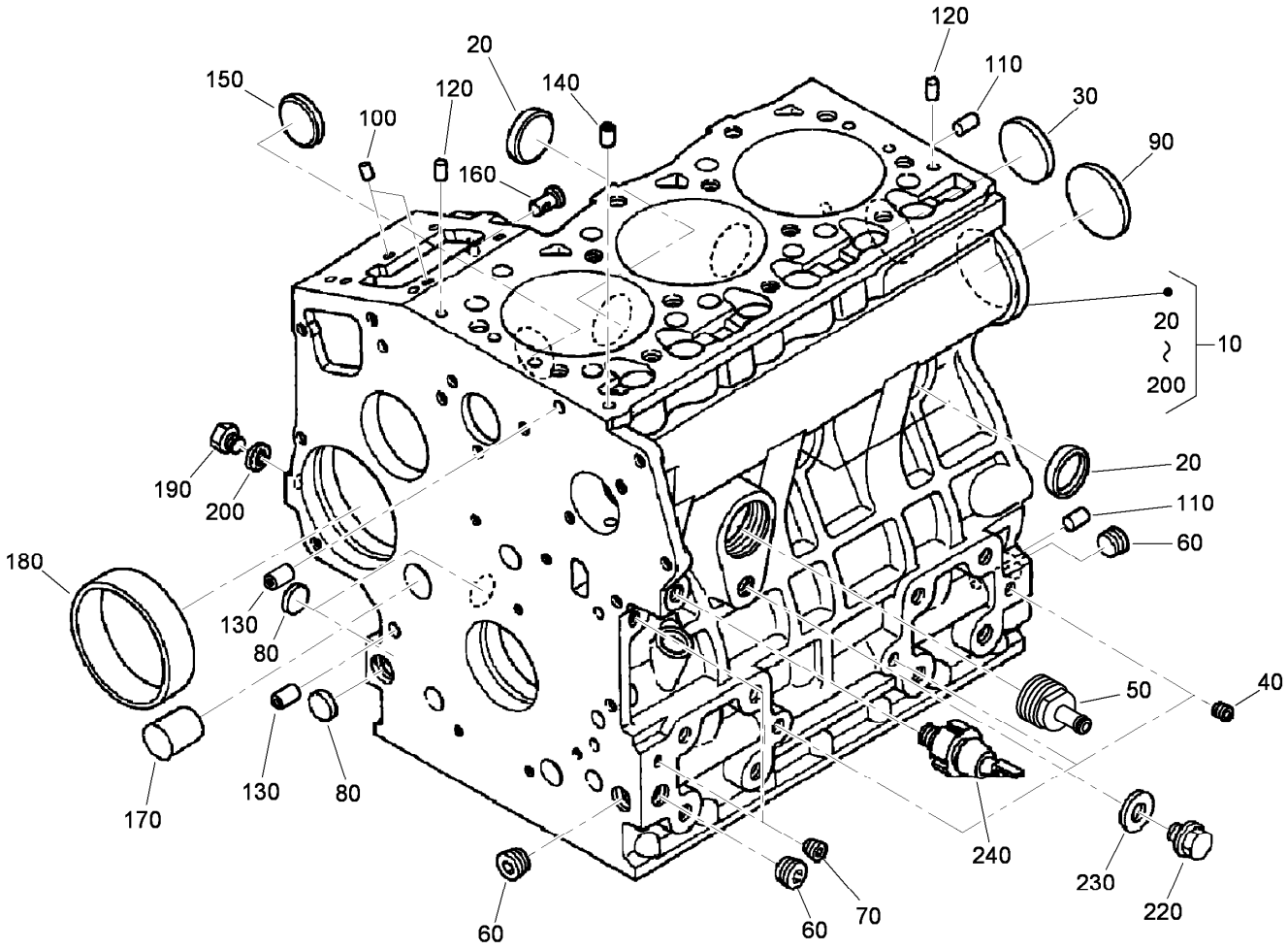
Air Cleaner and Hose Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	322-10	2	Screw-HH
2	104-3428	1	Air Cleaner ASM
3	104-8300	4	Nut-Flange, NI
5	2412-130	1	Clamp-Hose
6	112-9582	1	Hose-Air Inlet, Turbo
7	2412-3	1	Clamp-Hose
8	108-9843-03	1	Support-Cleaner, Air
9	322-6	2	Screw-HH
10	105-7281	1	Hose-Air Inlet, Upper



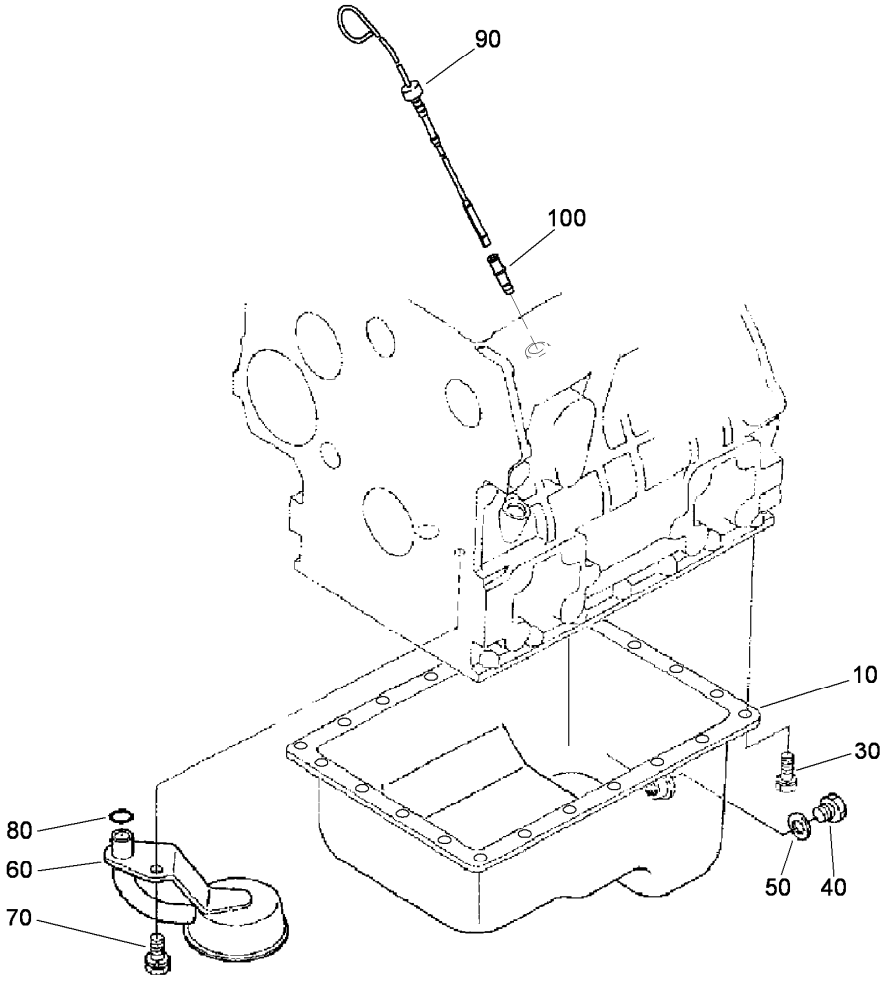
Air Cleaner Assembly No. 104-3428

Ref.	*Part Number*	*Qty.*	*Description*
1	105-4292	1	Nipple-Pipe
2	104-0497	1	Cover
5	104-4897	1	Gasket
6	98-4525	1	Bracket-Cleaner, Air
7	104-0498	1	Valve-Vacuator
8	108-3810	1	Filter-Air
9	93-9164	1	Indicator-Mini



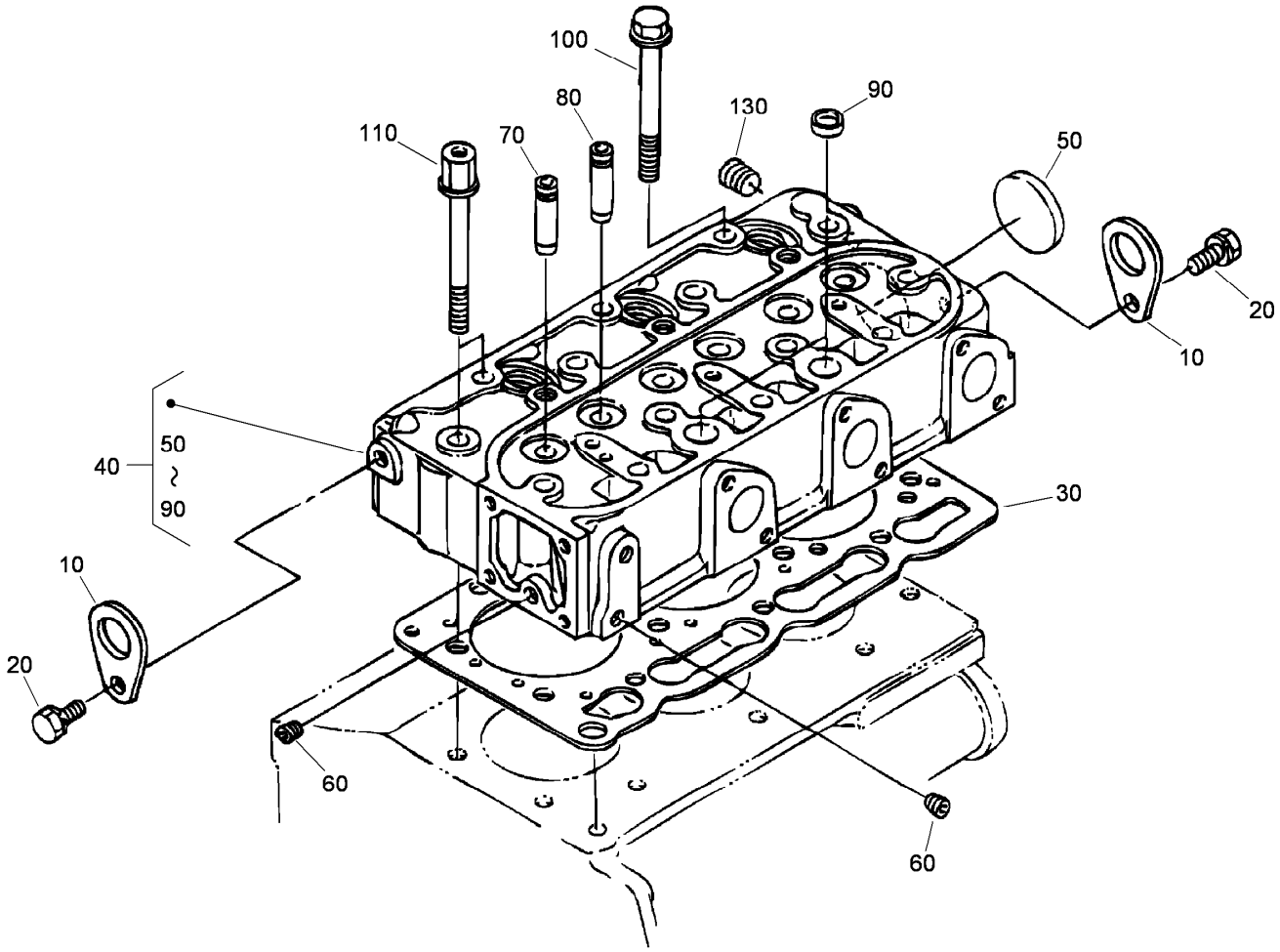
Crankcase Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-7043	1	Crankcase ASM
20	98-9398	4	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-7540	3	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	2	Pin-Straight
110	98-9377	2	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	98-9630	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
220	99-3447	1	Plug
230	106-7056	1	Gasket
240	98-9416	1	Switch-Oil



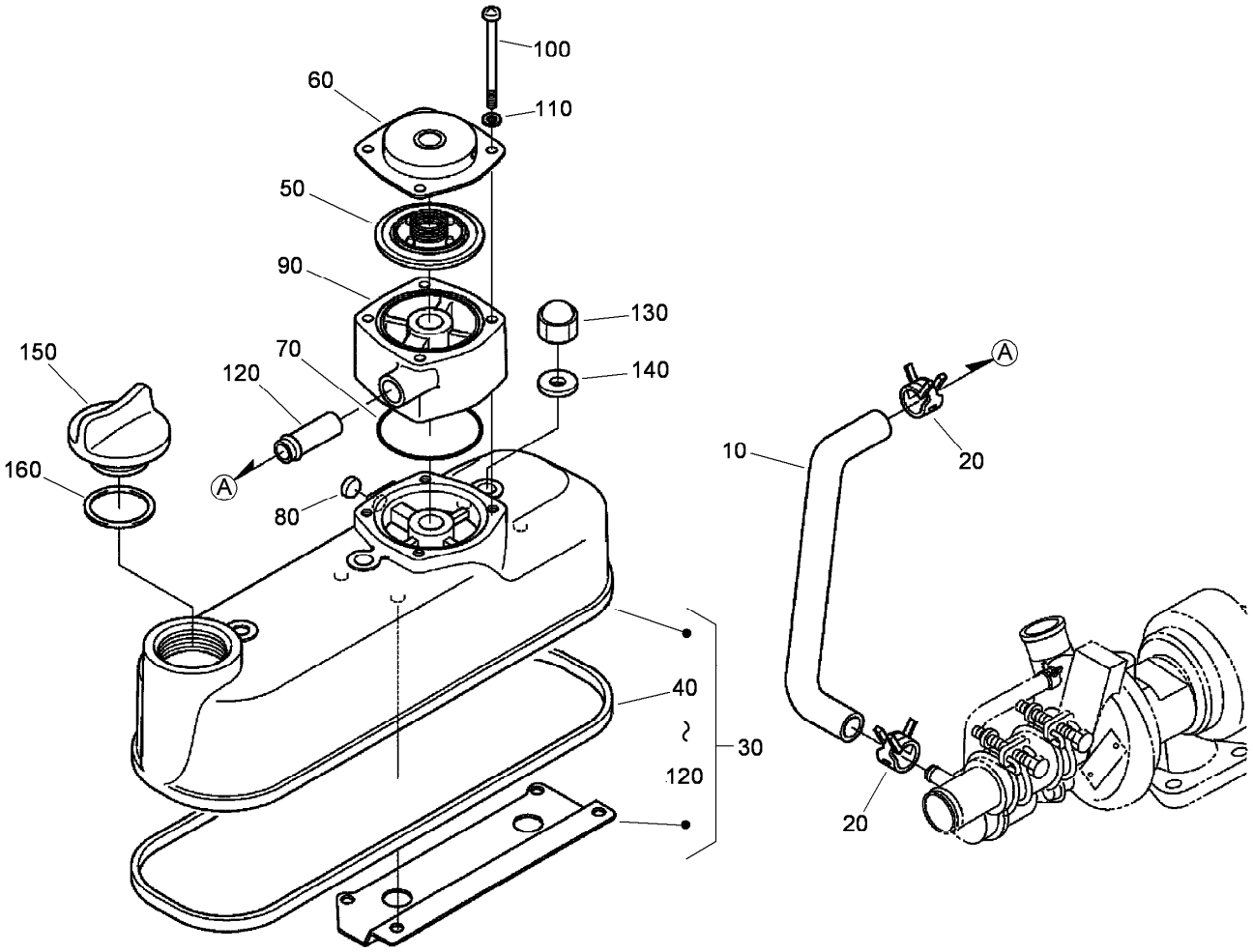
Oil Pan Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-0179	1	Pan-Oil
30	98-9351	22	Bolt
40	114-8151	1	Plug-Drain
50	98-7524	1	Gasket
60	112-7044	1	*obs* Head-Filter
70	98-7526	1	Bolt
80	105-3776	1	O-Ring
90	107-9076	1	Gauge-Oil
100	105-4580	1	Guide-Gauge, Oil



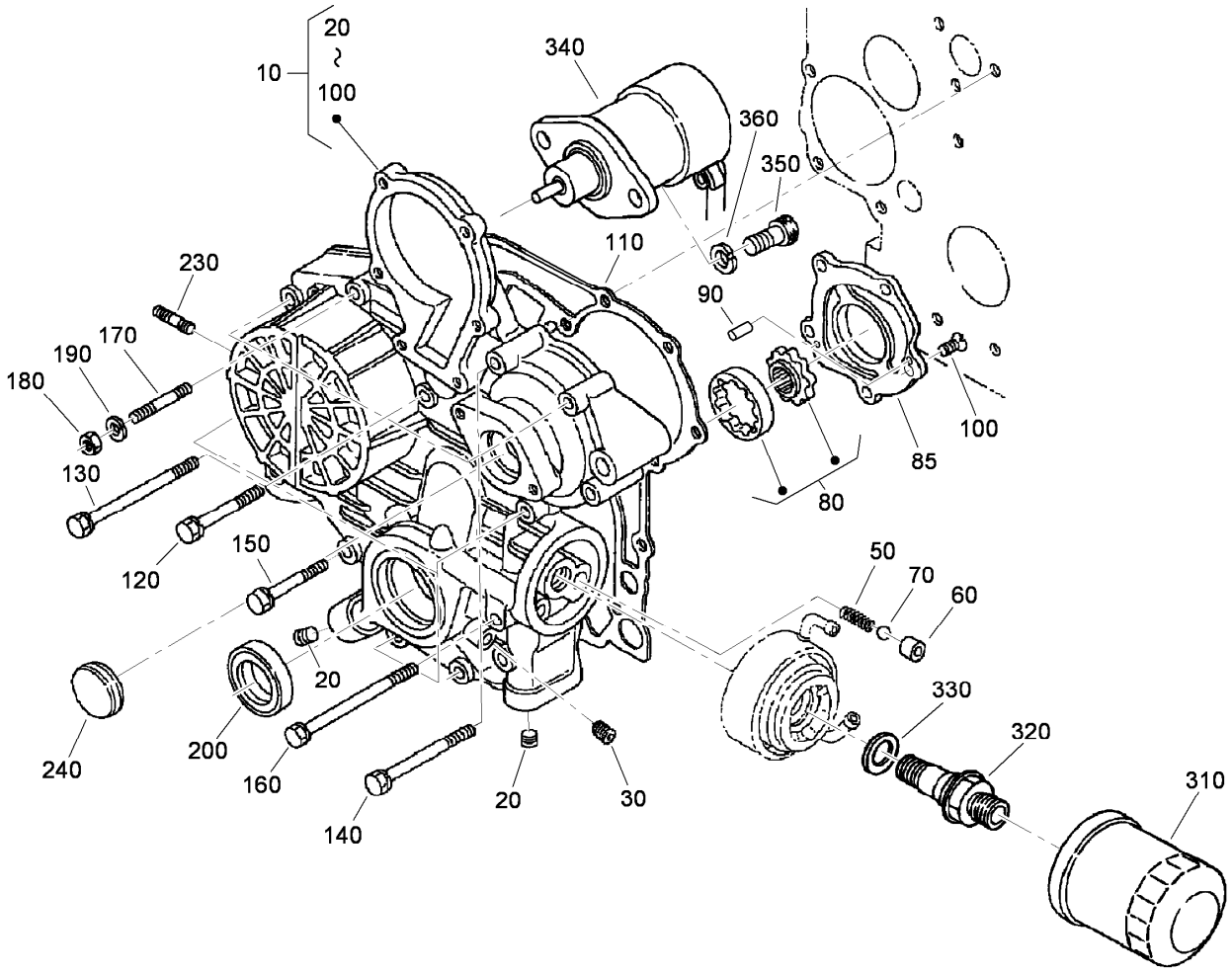
Cylinder Head Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-7531	2	Hook-Engine
20	100-9195	2	Bolt
30	108-6573	1	Gasket-Head, Cylinder
40	107-7823	1	Cylinder Head ASM
50	105-3705	1	Cap-Sealing
60	98-7540	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
110	98-9647	2	Bolt-Head, Cylinder
130	98-9444	1	Plug



Head Cover Assembly

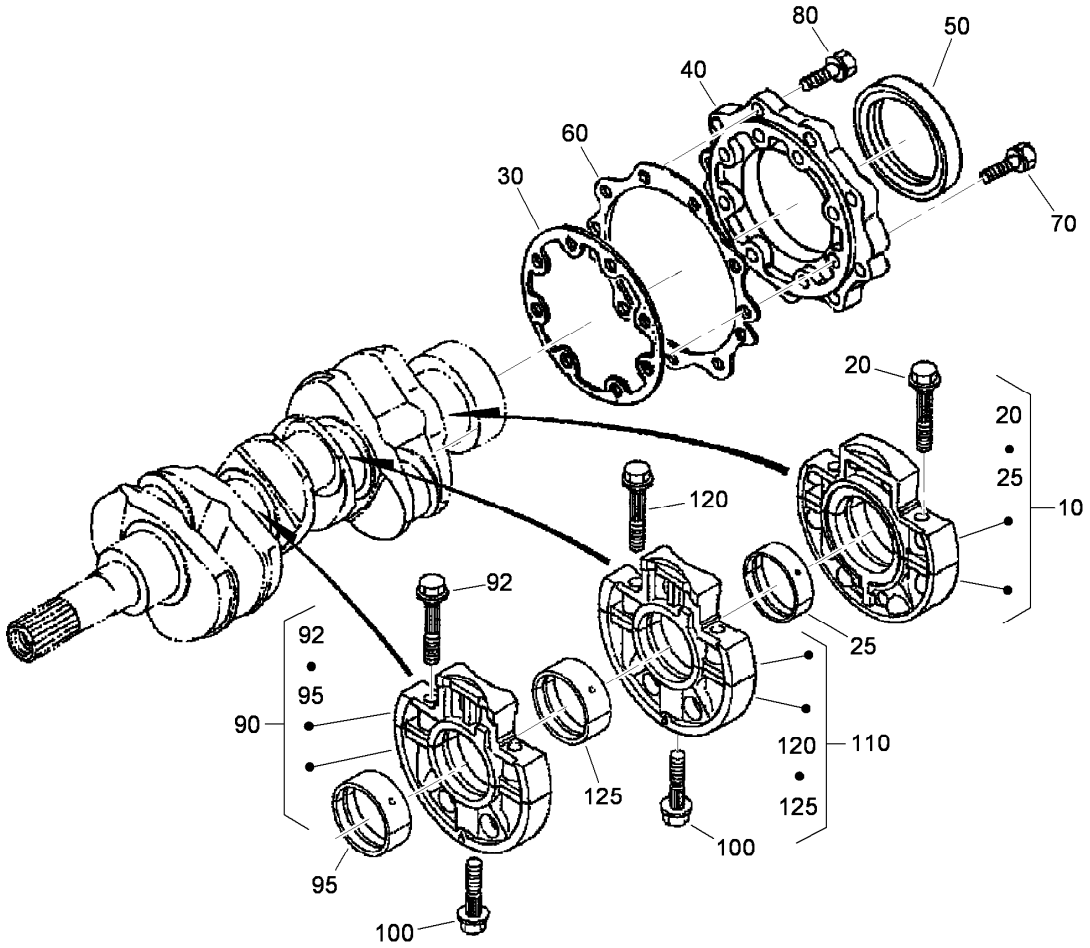
Ref.	*Part Number*	*Qty.*	*Description*
10	115-3040	1	Tube-Breather
20	108-2859	2	Clamp-Hose
30	115-3041	1	Cylinder Head Cover ASM
40	98-9615	1	Gasket-Cover, Head
50	108-2861	1	Breather Valve ASM
60	110-3714	1	Cover-Breather
70	110-3846	1	O Ring-Breather
80	115-3042	1	Cap-Sealing
90	115-3043	1	Spacer-Breather
100	115-3044	4	Screw-Pan Head
110	100-2204	4	Washer-Spring
120	98-7766	1	Pipe-Return, Water
130	98-9455	3	Nut-Cap
140	98-9454	3	Gasket
150	107-9075	1	Plug-Filler, Oil
160	99-3446	1	O-Ring



Gear Case Assembly

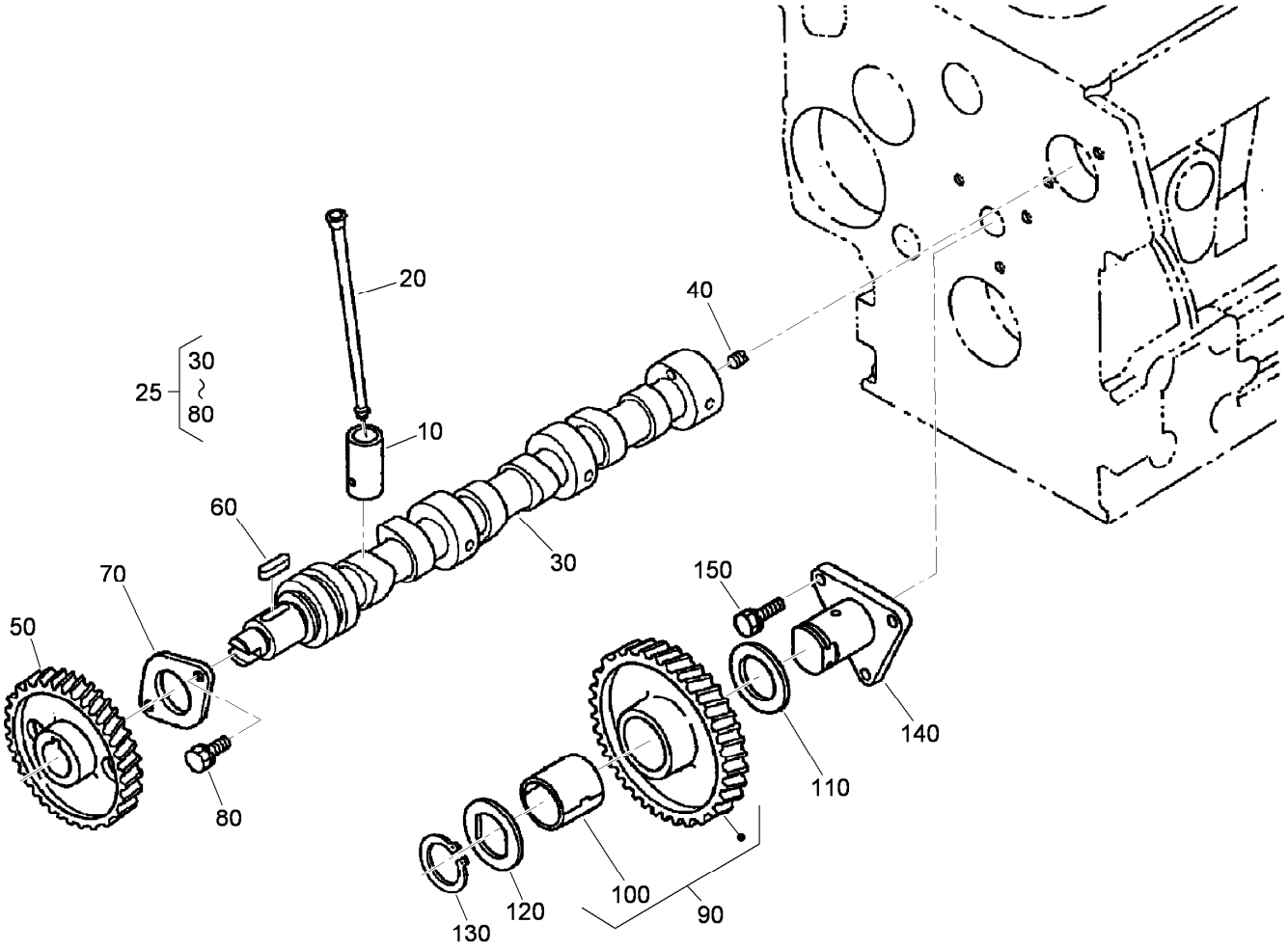
Ref.	Part Number	Qty.	Description
10	115-4111	1	Gear Case ASM
20	98-9598	2	Plug
30	98-7487	1	Plug
50	98-9544	1	Spring
60	98-9543	1	Seat-Valve
70	98-9380	1	Ball
80	98-9540	1	Oil Pump Rotor ASM
85	107-9069	1	Cover-Pump, Oil
90	107-9072	2	Pin-Straight
100	107-9071	5	Screw
110	98-9633	1	Gasket-Case, Gear
120	98-7496	3	Bolt
130	105-3797	4	Bolt
140	98-9356	4	Bolt

Ref.	Part Number	Qty.	Description
150	107-9074	1	Bolt
160	98-9586	2	Bolt
170	105-3709	1	Stud
180	98-7572	1	Nut
190	98-7699	1	Washer-Spring
200	98-9482	1	Seal-Oil
230	105-3710	2	Stud
240	98-9641	1	Cover-Case, Gear
310	108-3841	1	Filter-Oil
320	104-5159	1	Holder ASM
330	98-9727	1	Collar
340	104-5155	1	Solenoid-Stop
350	115-3039	2	Bolt-HSH
360	98-7699	2	Washer-Spring



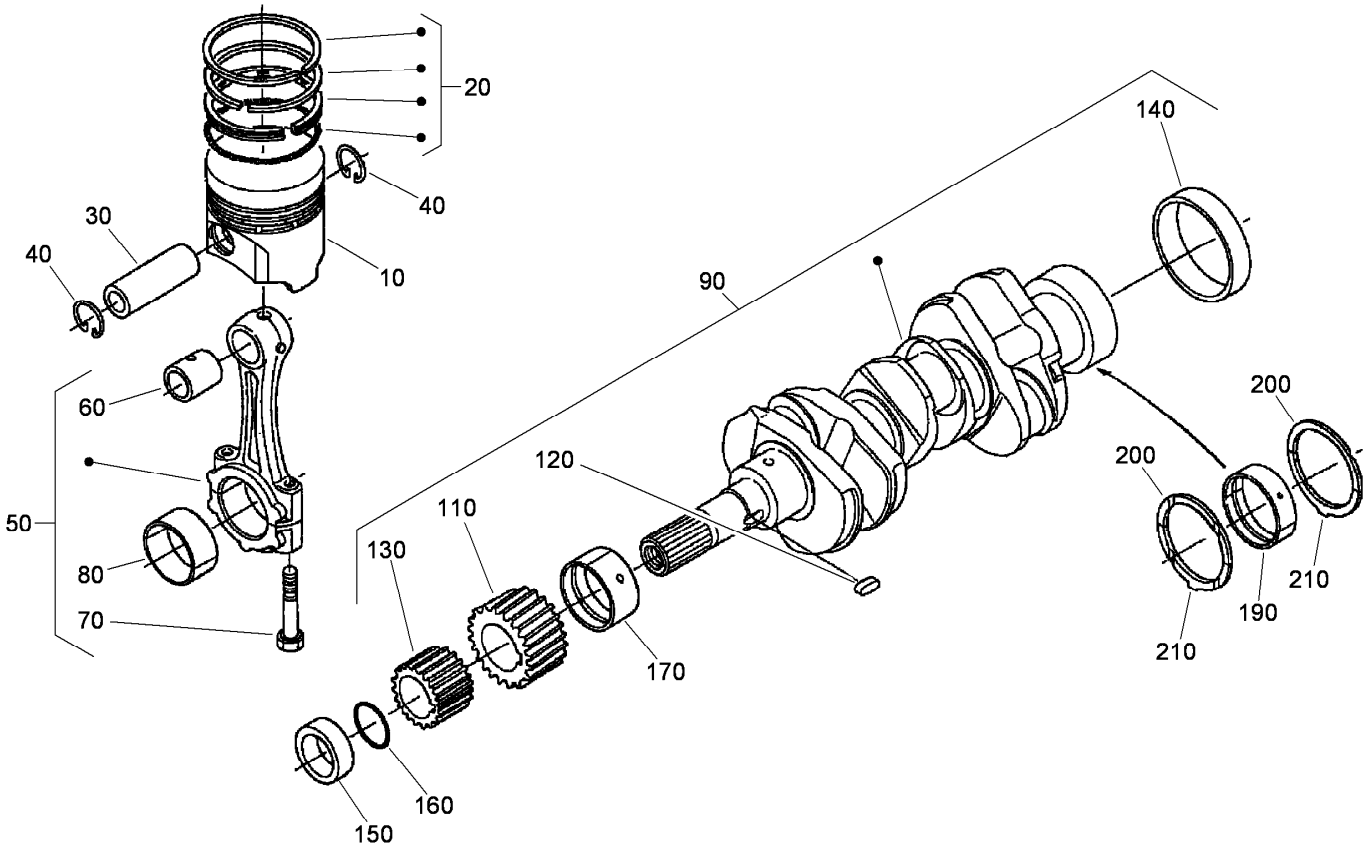
Main Bearing Case Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-7026	1	Wheel Bearing Case ASM
20	98-9484	2	Bolt-Case, Bearing
25	112-7045	1	Metal-Crankshaft
25	112-7039	1	Metal-Crankshaft (0.2Mm)
25	112-7040	1	Metal-Crankshaft (-0.4Mm)
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
92	98-9484	2	Bolt-Case, Bearing
95	112-7011	1	Bearing-Main (STD)
95	112-7012	1	Metal-Crankpin (-0.2Mm)
95	112-7013	1	Metal-Crankpin (-0.4Mm)
100	98-9485	2	Bolt-Case, Bearing
110	112-7027	1	Bearing ASM
120	98-9484	2	Bolt-Case, Bearing
125	112-7011	1	Bearing-Main (STD)
125	112-7012	1	Metal-Crankpin (-0.2Mm)
125	112-7013	1	Metal-Crankpin (-0.4Mm)



Camshaft and Idle Gear Shaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-0185	6	Tappet
20	98-9509	6	Rod-Push
25	112-7029	1	Camshaft ASM
30	108-1403	1	Camshaft
40	98-7449	1	Screw-Set
50	98-9512	1	Gear-Cam
60	98-9378	1	Key-Feather
70	98-9510	1	Stopper-Camshaft
80	98-7692	2	Bolt
90	98-9649	1	Idle Gear ASM
100	98-9650	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

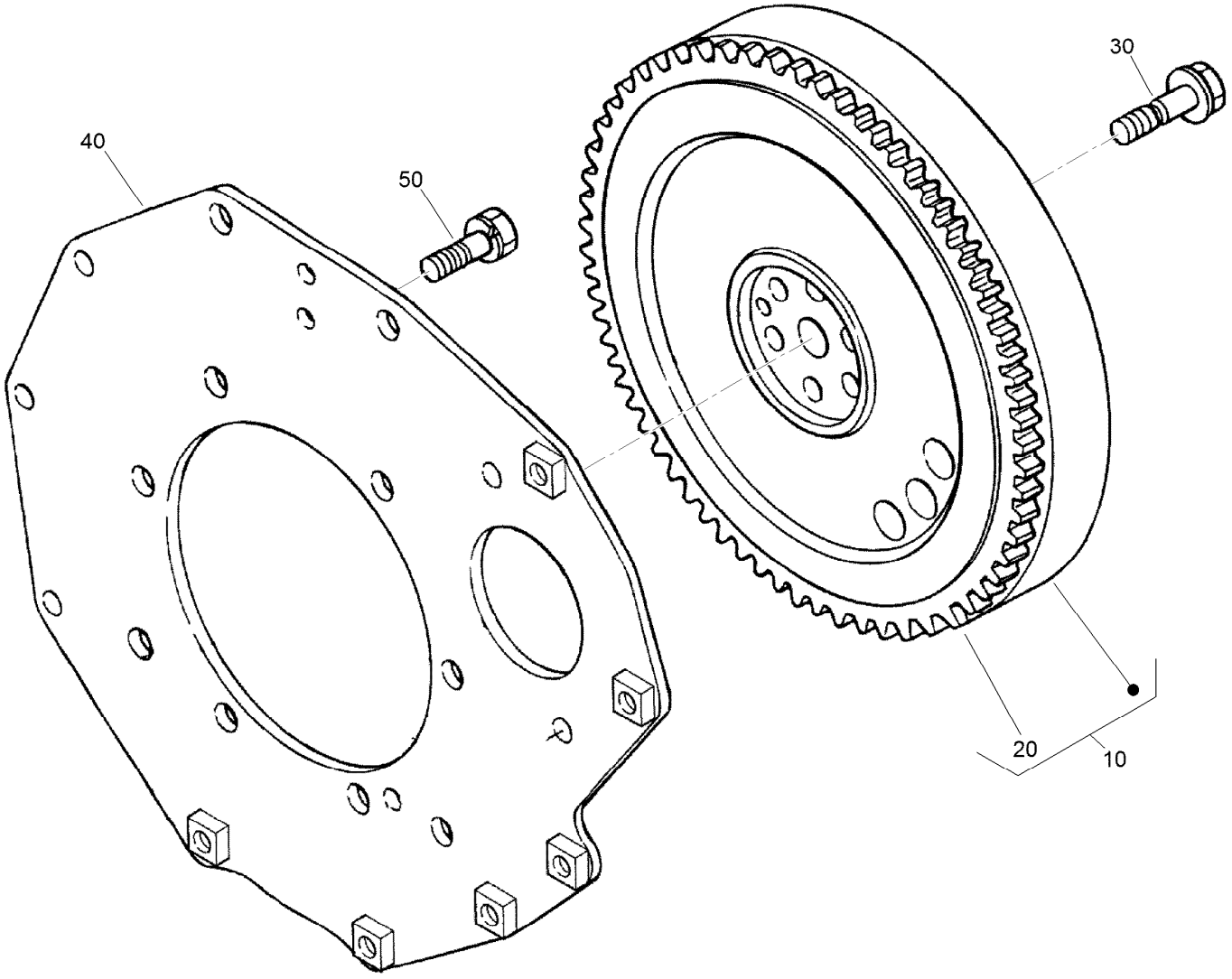


Piston and Crankshaft Assembly

Ref.	Part Number	Qty.	Description
10	98-9550	3	Piston (STD)
10	108-1417	3	Piston (0.5Mm)
20	98-9551	3	Piston Ring ASM (STD)
20	108-1404	3	Piston Ring ASM (0.5Mm)
30	98-9513	3	Pin-Piston
40	98-9514	6	Circlip-Pin, Piston
50	98-9552	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	108-1405	3	Metal-Crankpin (-0.2Mm)
80	108-1406	3	Metal-Crankpin (-0.4Mm)
90	98-9642	1	Crankshaft ASM
100	110-3729	3	Ball ●
110	98-9532	1	Gear-Crankshaft
120	98-9666	1	Key
130	98-9542	1	Gear-Drive, Oil Pump
140	98-9522	1	Sleeve-Crankshaft

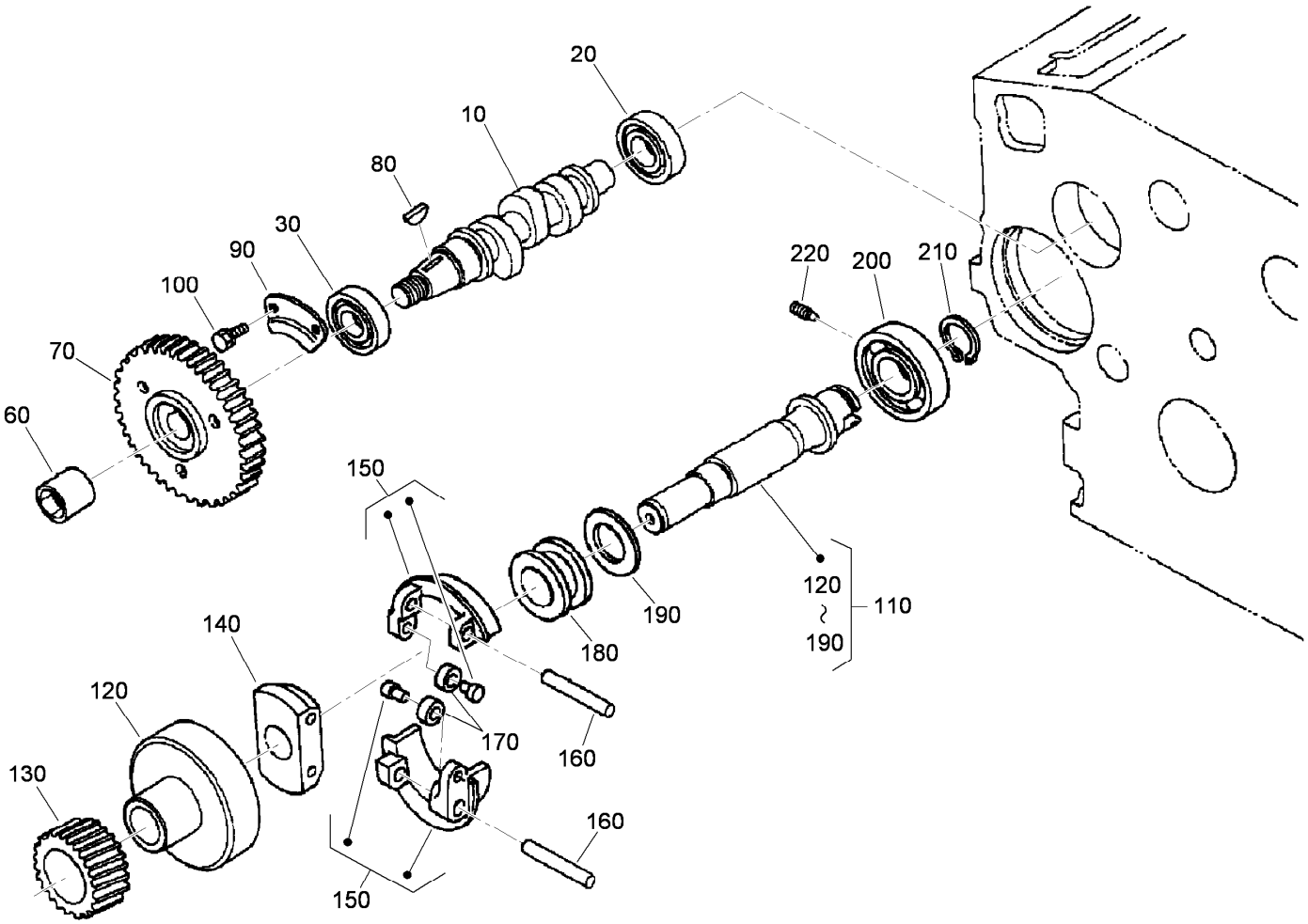
Ref.	Part Number	Qty.	Description
150	98-9521	1	Collar-Crankshaft
160	105-3783	1	O-Ring
170	112-7005	1	Bearing-Main (STD)
170	112-7009	1	Metal-Crankpin (-0.2Mm)
170	112-7010	1	Metal-Crankpin (-0.4Mm)
180	112-7011	2	Bearing-Main (STD) ●
180	112-7012	2	Metal-Crankpin (-0.2Mm) ●
180	112-7013	2	Metal-Crankpin (-0.4Mm) ●
190	112-7045	1	Metal-Crankshaft
190	112-7039	1	Metal-Crankshaft (0.2Mm)
190	112-7040	1	Metal-Crankshaft (-0.4Mm)
200	98-9413	2	Bearing-Thrust (STD)
200	98-9414	2	Bearing-Thrust (0.2Mm)
200	98-9415	2	Bearing-Thrust (0.4Mm)
210	98-9688	2	Bearing-Thrust (STD)
210	98-9689	2	Bearing-Thrust (0.2Mm)
210	98-9690	2	Bearing-Thrust (0.4Mm)

● Not illustrated



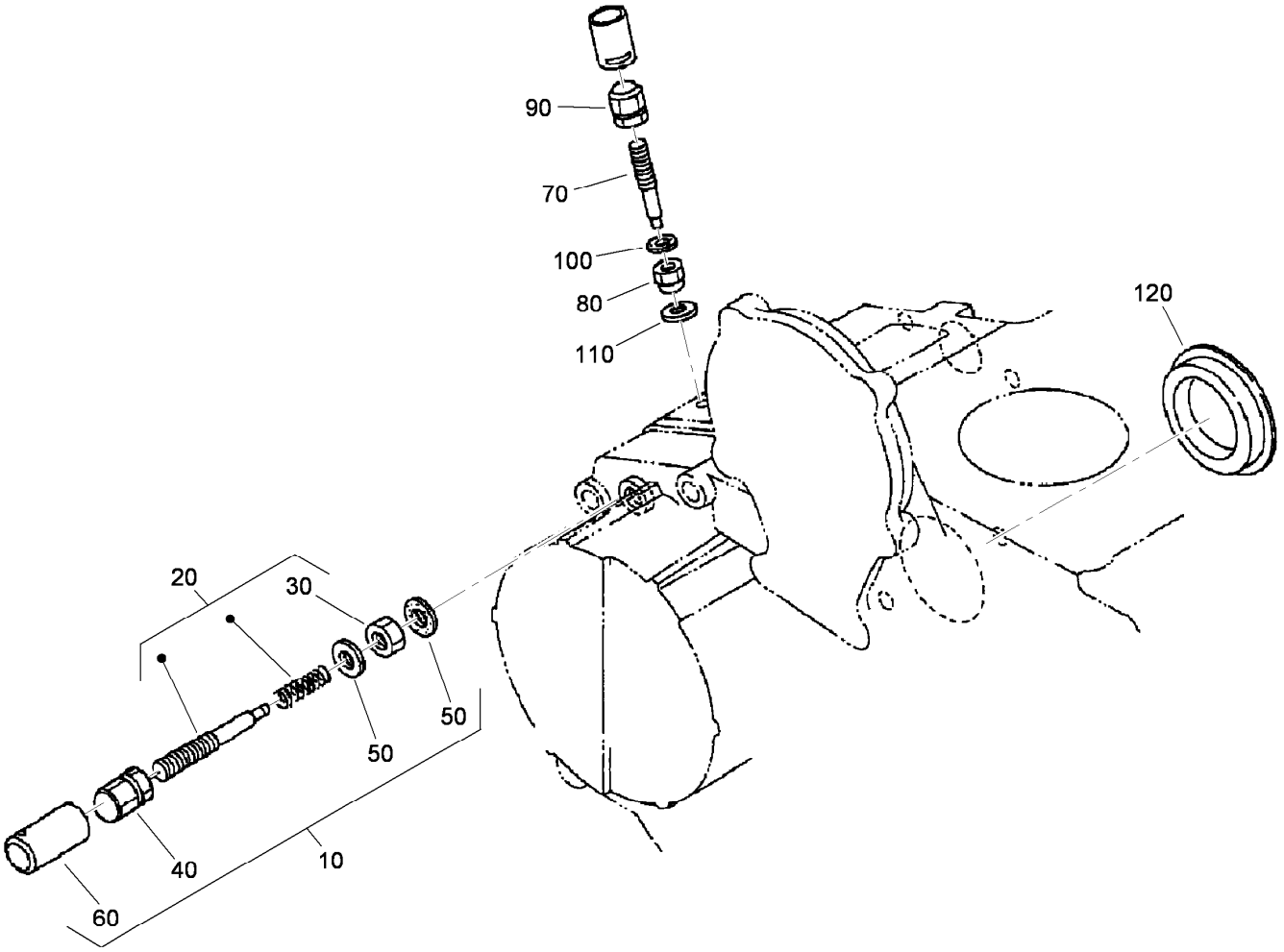
Flywheel Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3784	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



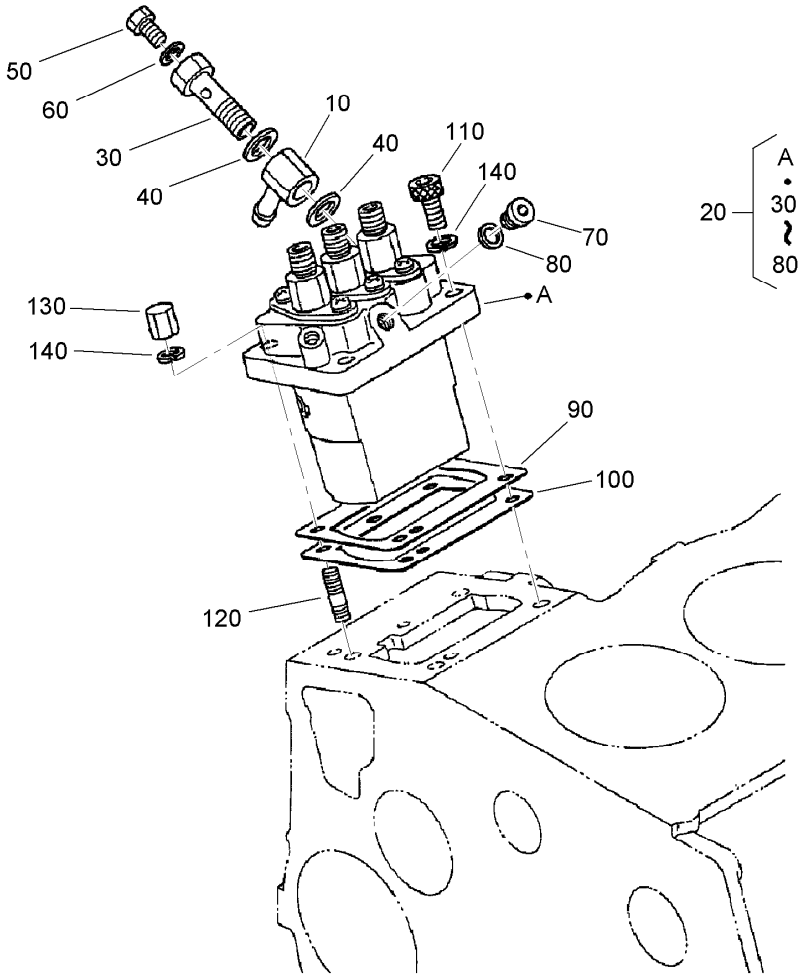
Fuel Camshaft and Governor Shaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9459	1	Camshaft-Fuel
20	107-9077	1	Bearing-Ball
30	107-9078	1	Bearing-Ball
60	98-9590	1	Nut-Cap
70	98-9669	1	Gear-Pump, Injection
80	98-9595	1	Key-Woodruff
90	98-9511	1	Stopper-Fuel, Camshaft
100	98-7692	2	Bolt
110	98-9644	1	Governor Shaft ASM
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



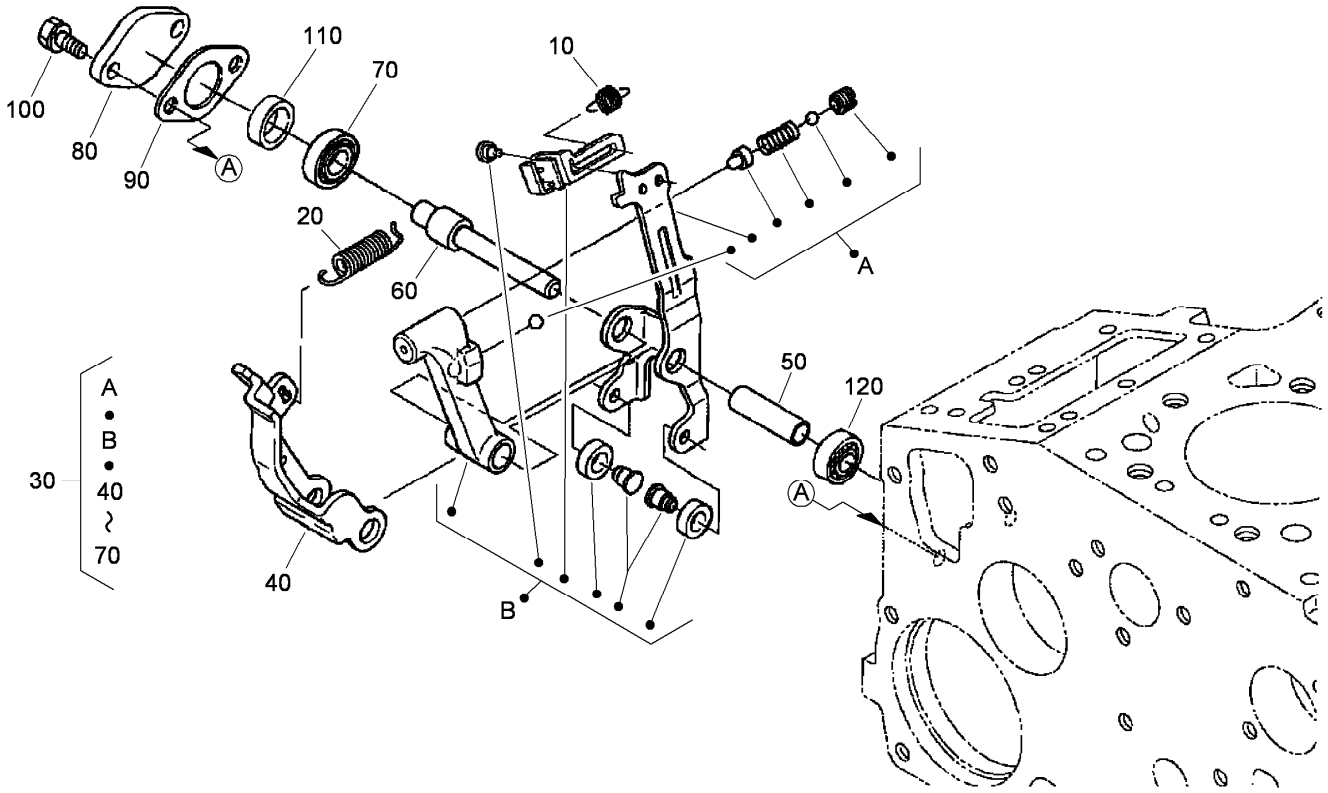
Idle Apparatus Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9678	1	Idle Apparatus ASM
20	112-7014	1	Adjusting Bolt ASM
30	99-8387	1	Nut-Cap
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	112-7016	1	Cover-Pump



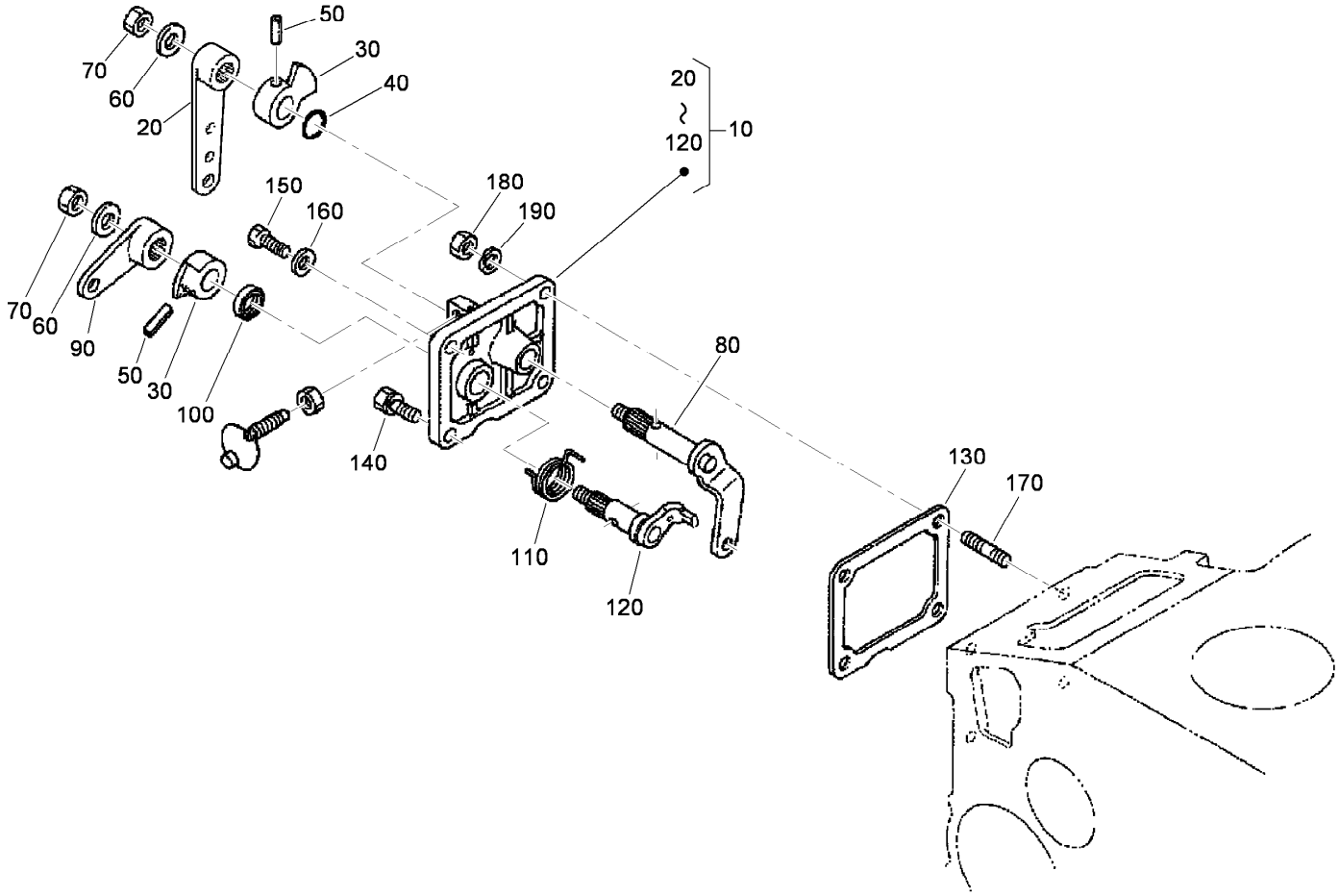
Injection Pump Assembly

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	98-9457	1	Shim-Injection (0.25Mm)
90	98-9456	1	Shim-Injection (0.20Mm)
100	98-9458	1	Shim-Injection (0.30Mm)
110	98-9361	2	Bolt-HSH
120	98-9438	2	Stud
130	98-9440	2	Nut-Cap
140	98-7699	4	Washer-Spring



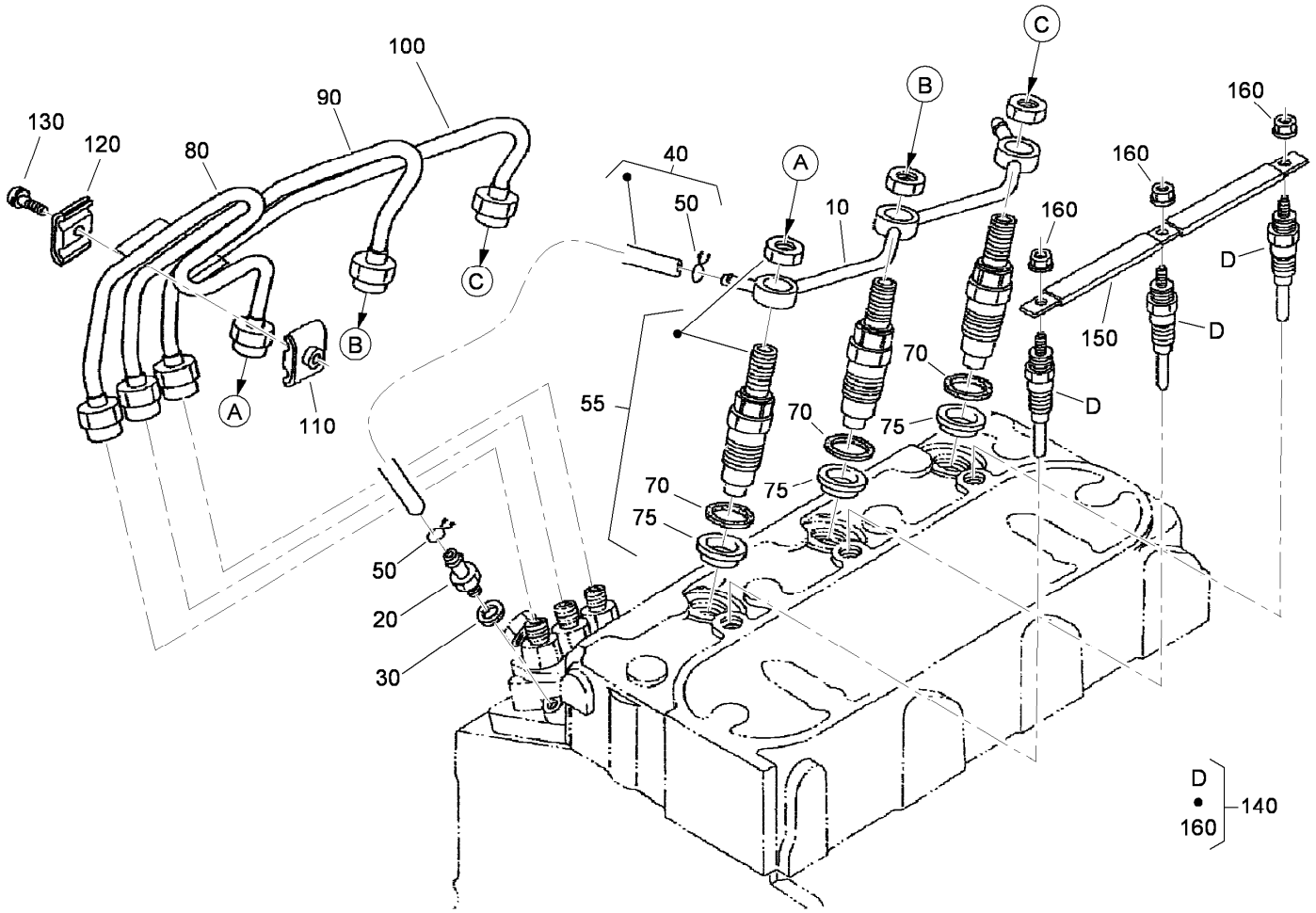
Governor Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3786	1	Spring-Start
20	98-9681	1	Spring-Governor
30	107-9082	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	98-9569	1	Cover-Shaft, Fork Lever
90	98-9682	1	Gasket
100	98-9350	2	Bolt
110	98-9567	1	Collar
120	98-9571	1	Bearing-Miniaturize



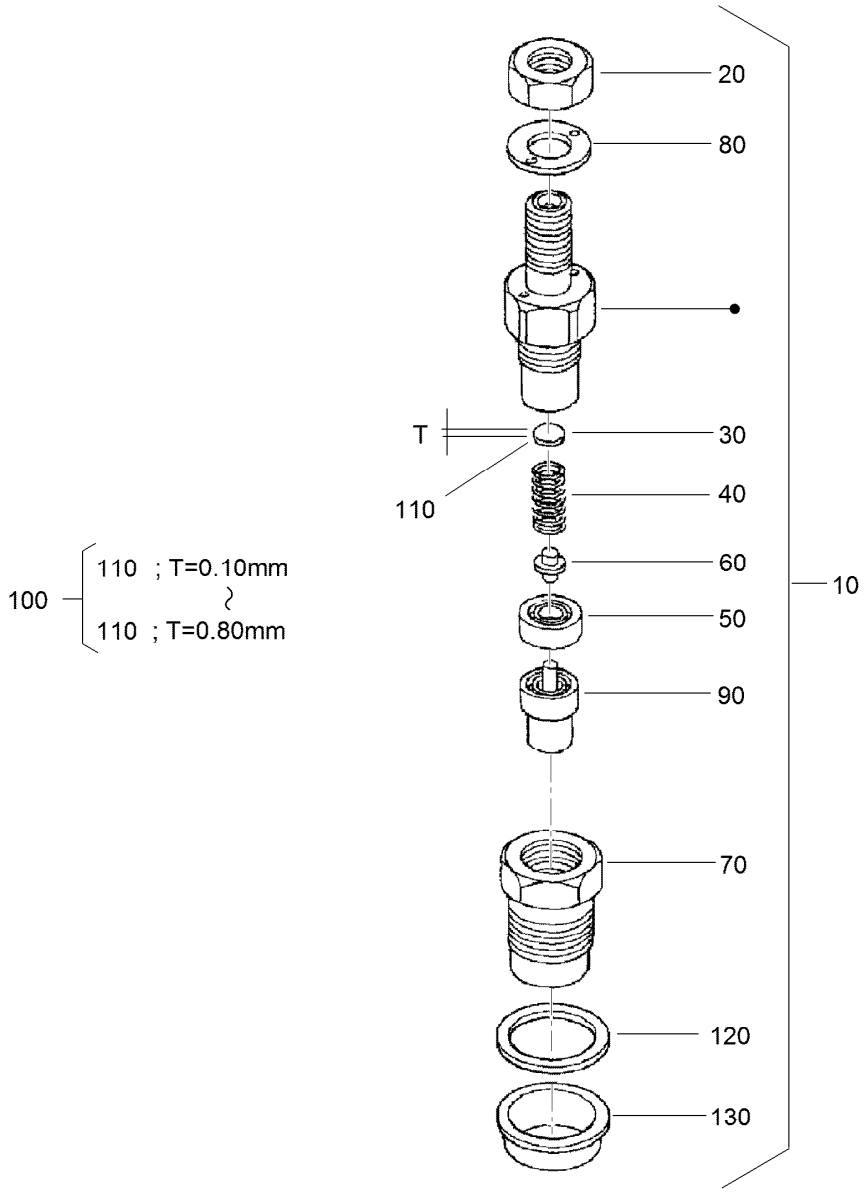
Speed Control Plate Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	105-3735	1	Control Plate ASM
20	98-9662	1	Lever-Control, Speed
30	98-9572	2	Lever-Control, Speed
40	105-3788	1	O-Ring
50	98-7602	2	Pin-Spring
60	98-9594	2	Washer-Plain
70	98-9589	2	Nut
80	98-9658	1	Governor Lever ASM
90	98-9663	1	Lever-Stop, Engine
100	98-7601	1	Seal-Oil
110	98-9472	1	Spring-Return
120	98-9664	1	Shaft-Lever, Stop
130	98-9637	1	Gasket
140	98-7692	1	Bolt
150	99-8348	1	Bolt
160	98-7654	1	Gasket
170	105-3710	2	Stud
180	98-7572	2	Nut
190	98-7699	2	Washer-Spring



Nozzle Holder and Glow Plug Assembly

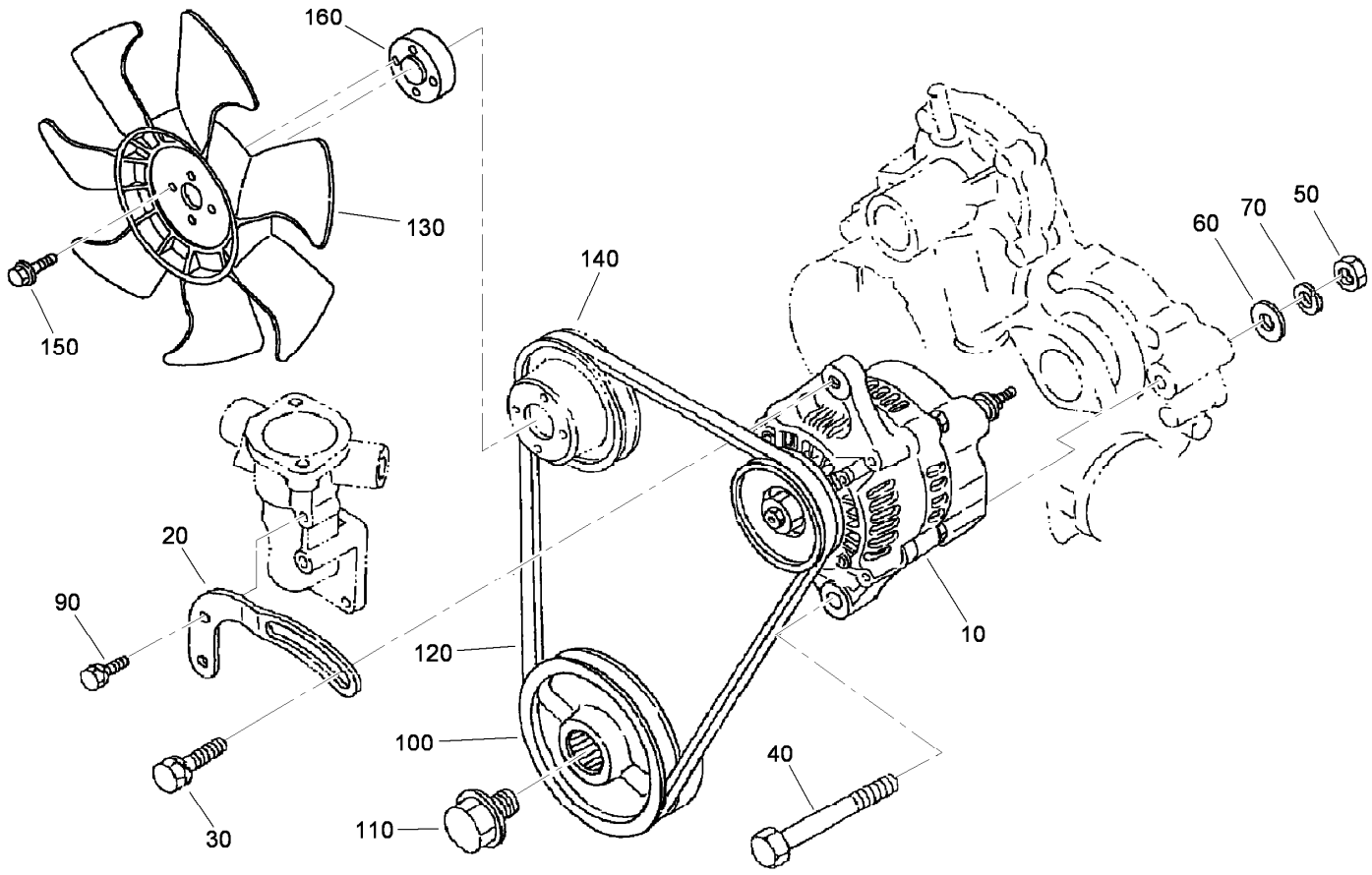
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9621	1	Overflow Pipe ASM
20	98-9431	1	Screw-Bleeder, Air
30	98-7654	1	Gasket
40	98-9624	1	Overflow Pipe ASM
50	98-7671	2	Clip-Pipe
55	108-2866	3	Nozzle Holder Kit
70	98-7676	3	Gasket
75	98-7677	3	Seal-Heat
80	98-9622	1	Pipe-Injection
90	98-9654	1	Pipe-Injection
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	98-9623	3	Plug-Glow
150	98-9631	1	Cord-Plug, Glow
160	99-8377	3	Nut-Flange



Nozzle Holder Assembly

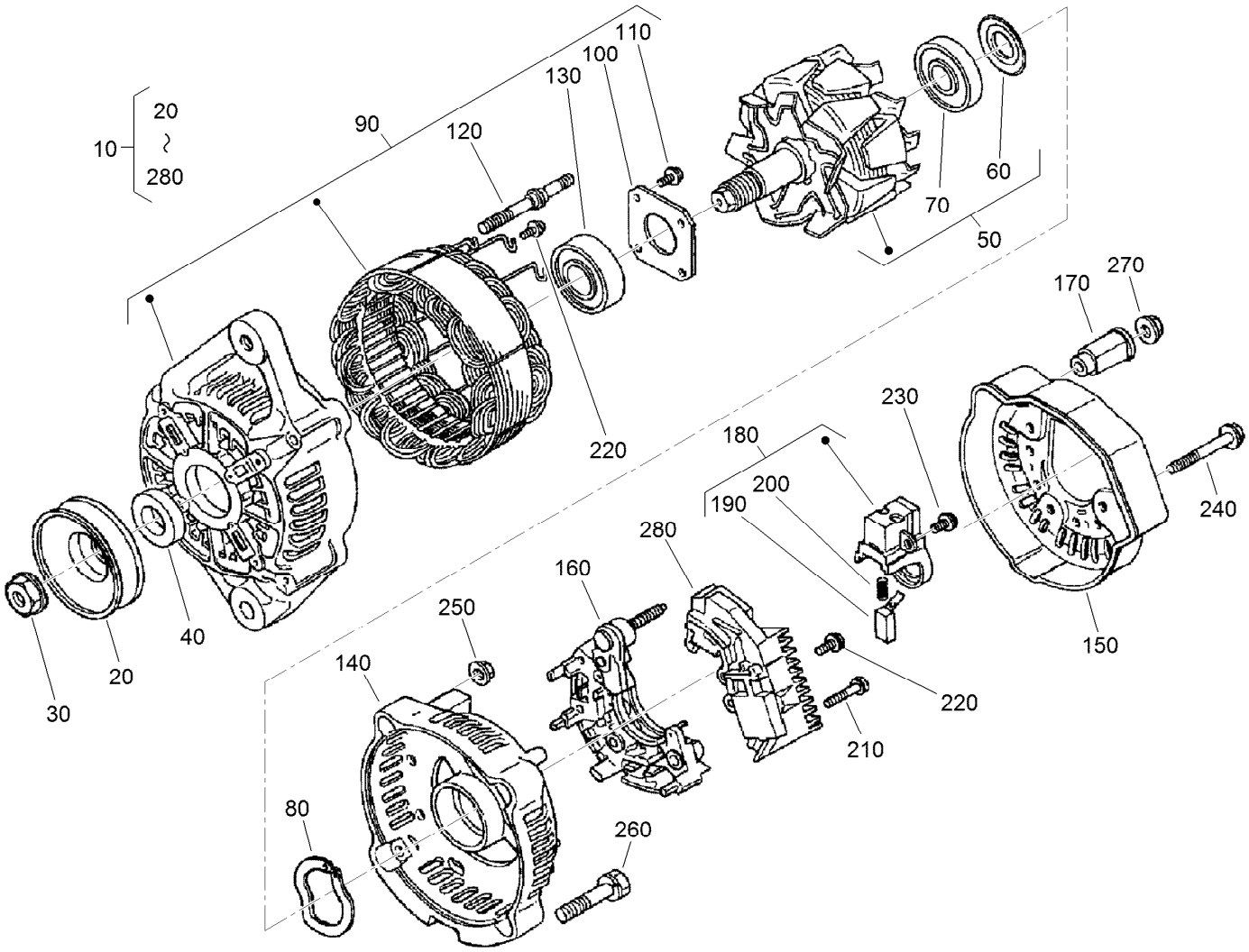
Ref.	Part Number	Qty.	Description
10	108-2866	3	Nozzle Holder Kit
20	99-8301	3	Nut
30	99-8302	3	Washer-Adjusting
40	99-8303	3	Spring-Nozzle
50	99-8304	3	Spacer-Distance
60	99-8305	3	Rod-Push
70	99-8306	3	Nut-Nozzle
80	99-8307	3	Washer-Plain
90	107-7826	3	Piece-Nozzle
100	99-8309	3	Adjusting Washer ASM
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 and Pulley Assembly

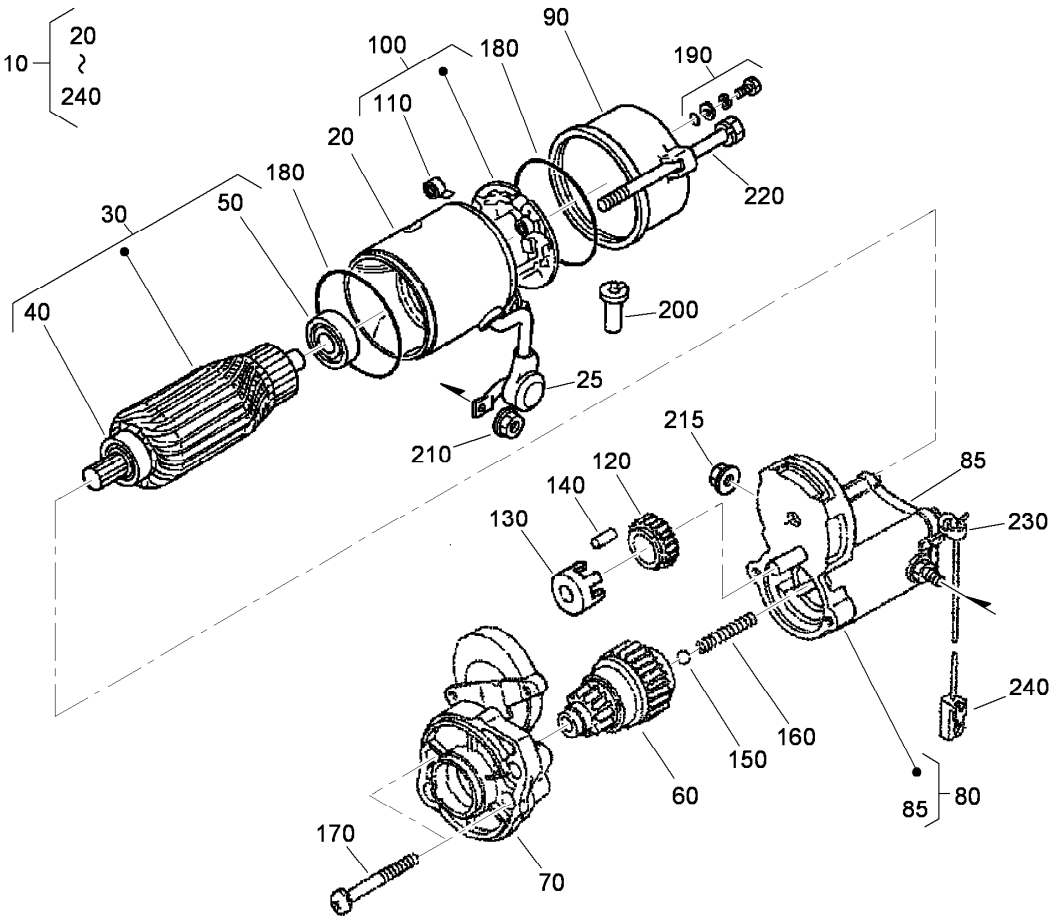
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9474	1	Alternator ASM
20	112-7047	1	Stay-Dynamo
30	108-7088	1	Bolt
40	98-9360	1	Bolt
50	98-7737	1	Nut
60	98-9366	1	Washer-Plain
70	98-7738	1	Washer-Spring
90	98-7692	1	Bolt
100	98-9473	1	Pulley-Drive, Fan
110	98-9585	1	Bolt
120	98-9676	1	V-Belt
130	104-4246	1	Fan-Engine
140	98-9584	1	Pulley-Fan
150	33103-020	4	Screw-HHF
160	108-2872	1	Collar-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	107-0137	1	Bearing-Ball
140	107-9087	1	Frame-End

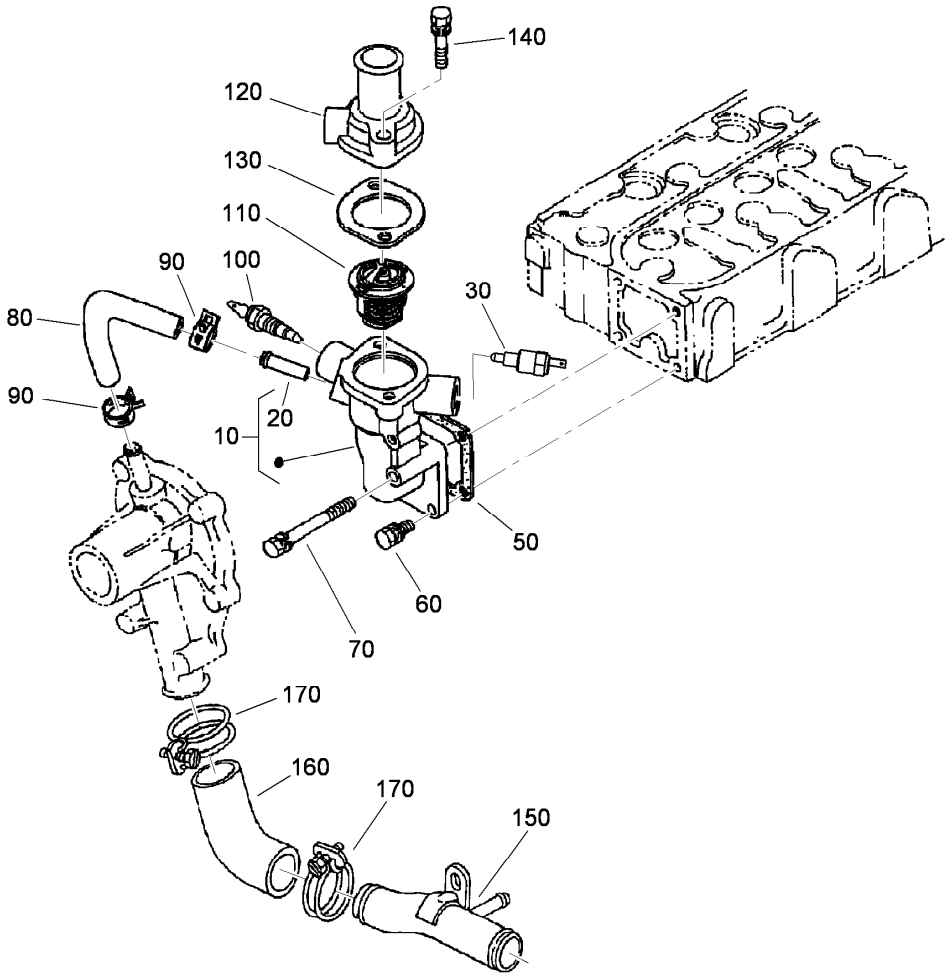
Ref.	Part Number	Qty.	Description
150	107-0140	1	Cover-End
160	98-7721	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Brush Holder ASM
190	98-7724	2	Brush
200	98-7725	2	Spring-Brush
210	98-7726	2	Screw-Head, Round
220	98-7727	6	Screw-Head, Round
230	98-7728	1	Screw-Head, Round
240	98-7729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



Starter (Component Part) Assembly No. 98-9705

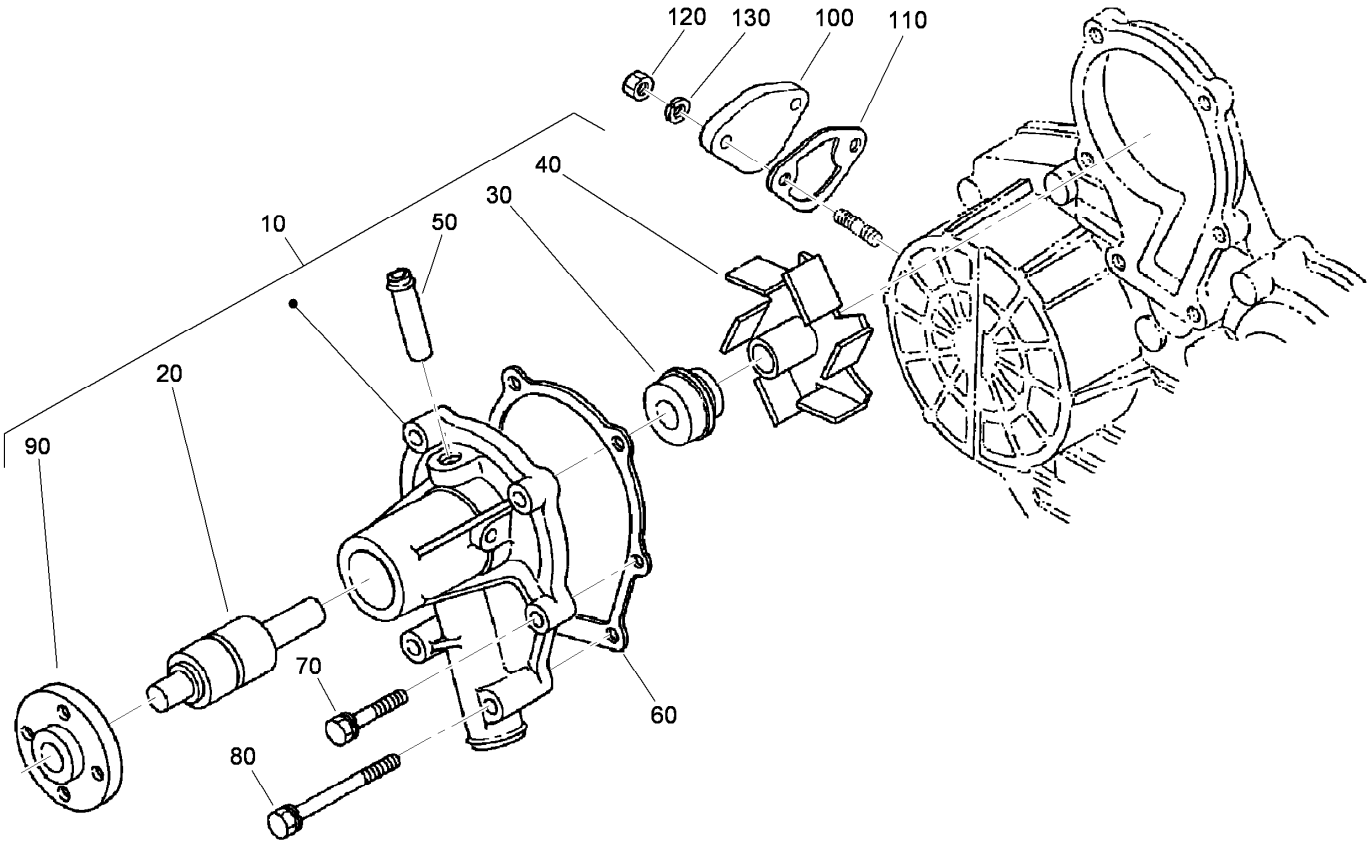
Ref.	*Part Number*	*Qty.*	*Description*
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
25	99-8375	1	Cover
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
85	105-2886	1	Cover ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear

Ref.	*Part Number*	*Qty.*	*Description*
130	98-7752	1	Retainer
140	98-7753	5	Roller
150	98-7755	1	Ball
160	98-7754	1	Spring
170	98-7756	2	Bolt
180	98-7757	2	O-Ring
190	98-7758	2	Bolt ASM
200	98-7759	1	Pipe-Drain
210	99-8371	1	Nut-Hex
215	99-8376	1	Nut-Hex
220	100-9240	2	Bolt
230	98-9712	1	Band-Cover
240	98-9711	1	Cord-Solenoid, Stop



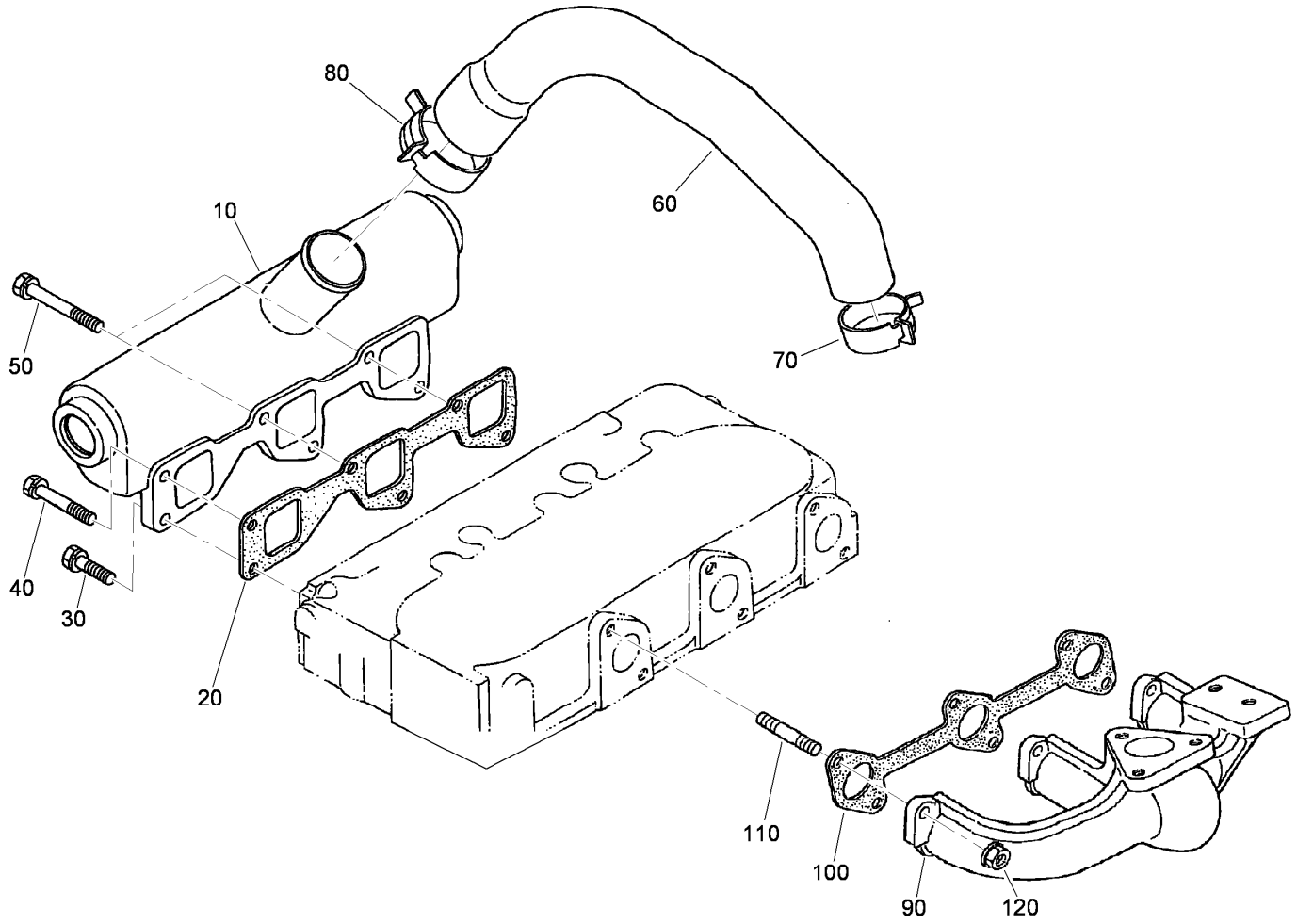
Water Flange and Thermostat Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9713	1	Water Flange ASM
20	98-9580	1	Pipe-Return, Water
30	98-9719	1	Thermoswitch
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
150	99-8379	1	Pipe-Water
160	107-9091	1	Pipe-Water
170	98-9717	2	Clamp



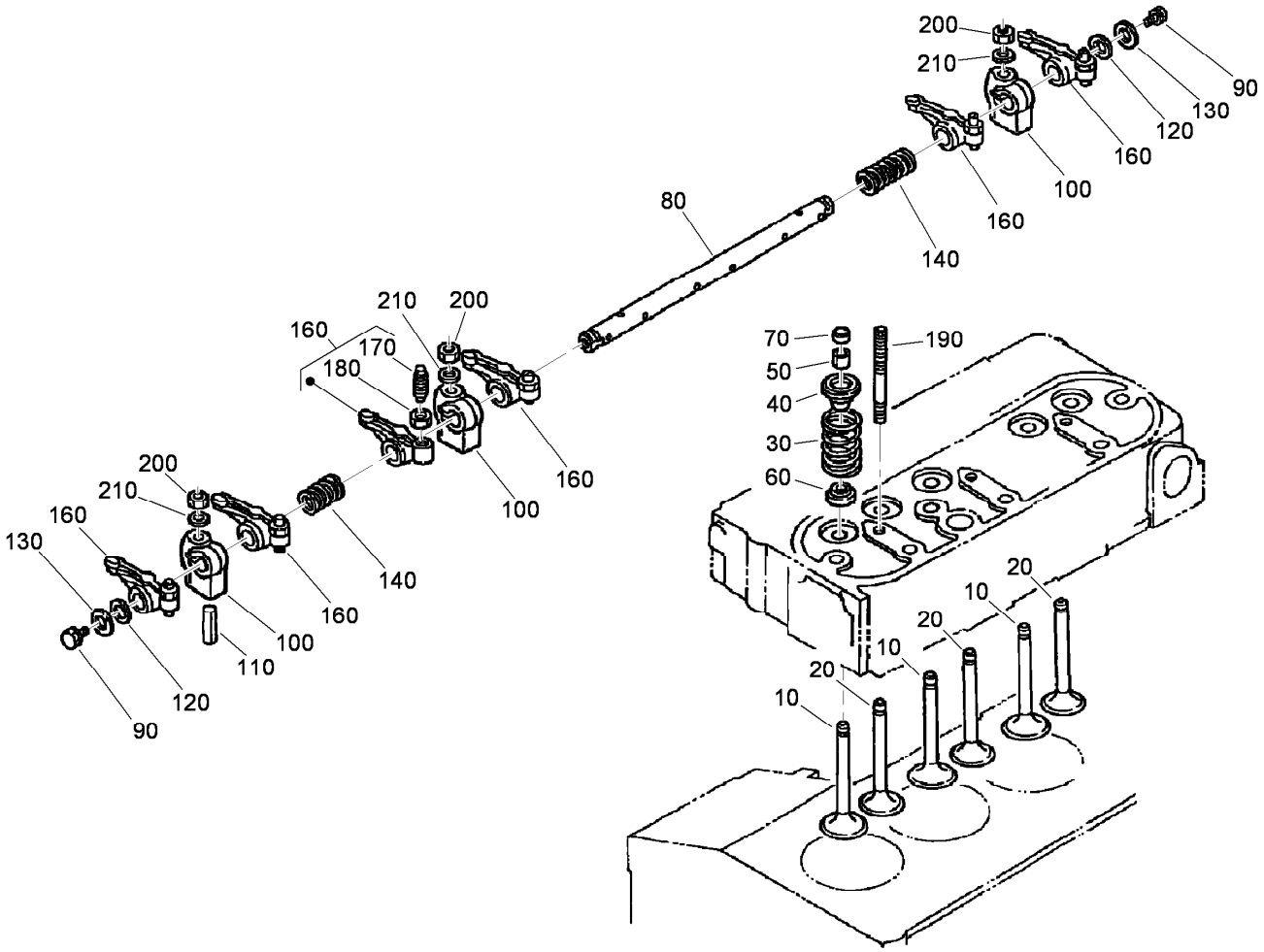
Water Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	107-9089	1	Water Pump ASM
20	99-3517	1	Bearing-Pump, Water
30	105-3750	1	Mechanical Seal ASM
40	112-7017	1	Impeller-Pump, Water
50	100-1932	1	Pipe-Return, Water
60	99-3454	1	Gasket-Pump, Water
70	98-9353	4	Bolt
80	107-9090	2	Bolt
90	99-3516	1	Flange-Pump, Water
100	99-3514	1	Cover
110	98-9636	1	Gasket-Pump, Fuel
120	98-7572	2	Nut
130	98-7699	2	Washer-Spring



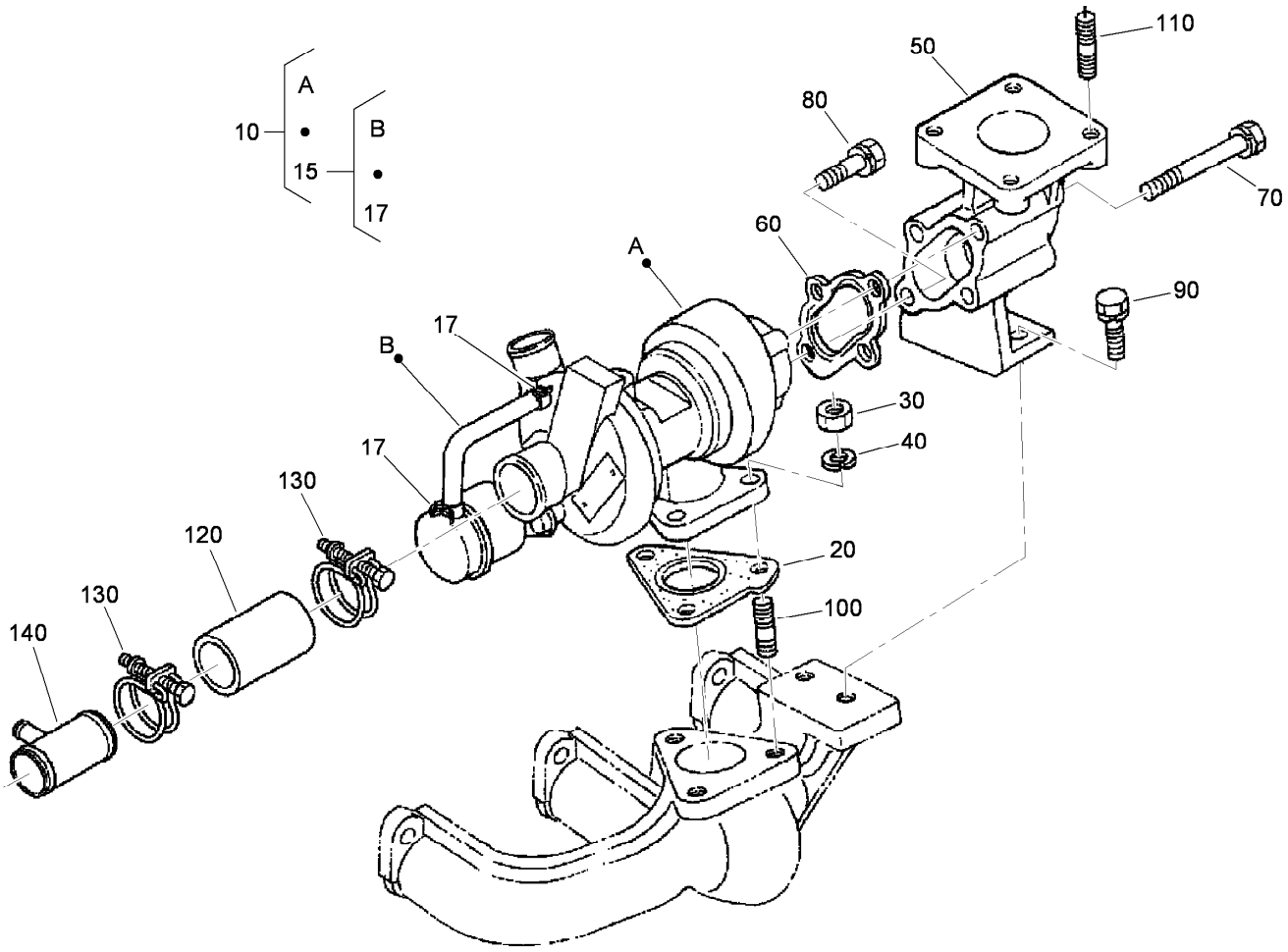
Inlet and Exhaust Manifold Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	99-8321	1	Manifold-Inlet
20	99-8329	1	Gasket-Manifold, Intake
30	98-7568	3	Bolt
40	107-9073	1	Bolt
50	99-8320	2	Bolt
60	115-3047	1	Hose-Inlet
70	115-3048	1	Clamp-Hose
80	115-3049	1	Clamp-Hose
90	108-1411	1	Manifold-Exhaust
100	99-8327	1	Gasket-Manifold, Exhaust
110	98-9588	6	Stud
120	98-9665	6	Nut



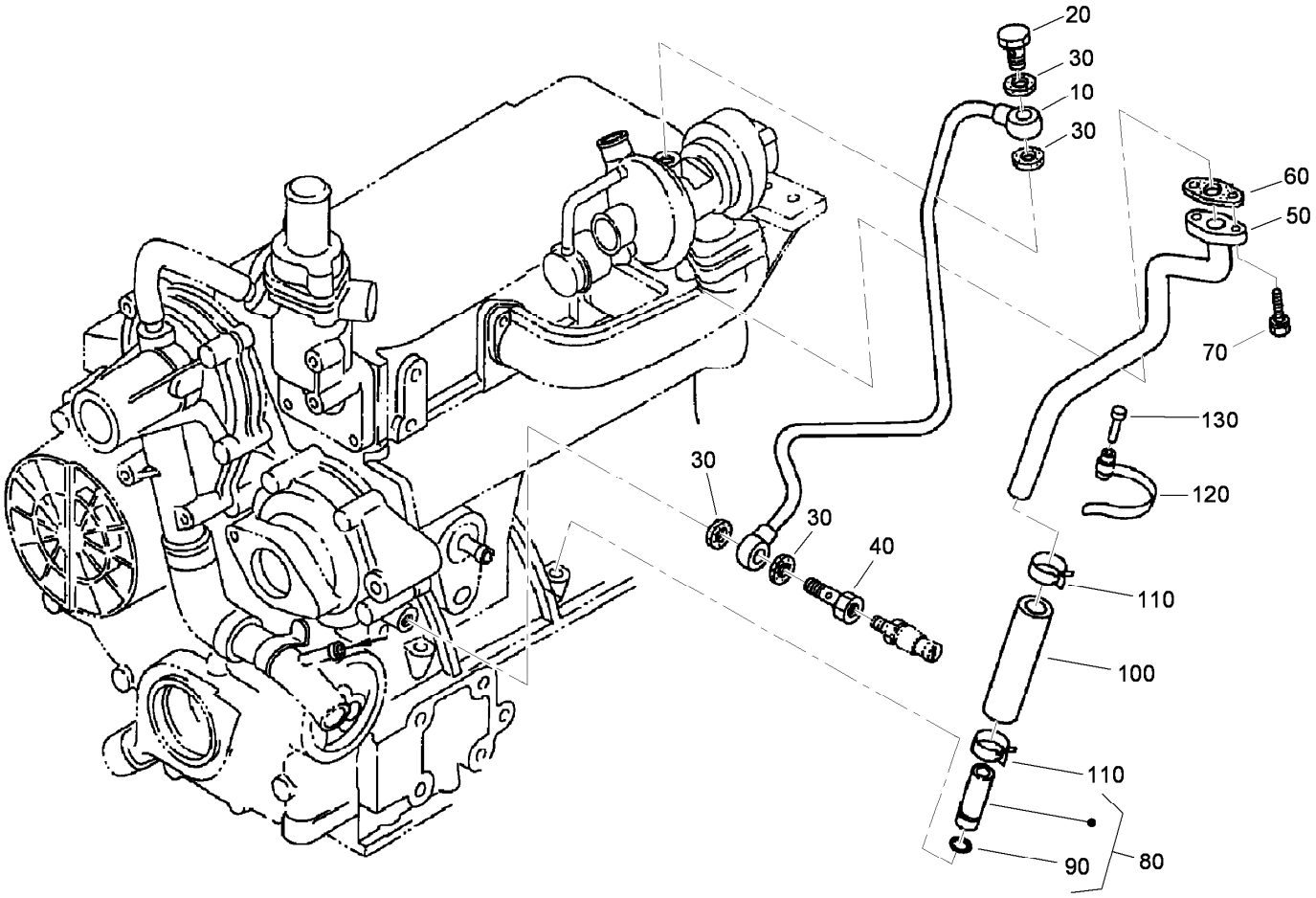
Valve and Rocker Arm Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	112-7018	3	Valve-Inlet
20	112-7019	3	Valve-Exhaust
30	98-9626	6	Spring-Valve
40	107-9092	6	Retainer-Spring
50	98-9390	6	Collet-Spring, Valve
60	99-8385	6	Seal-Stem, Valve
70	98-9497	6	Cap-Valve
80	105-3790	1	R-Arm Shaft ASM
90	100-9265	2	Bolt
100	98-9505	3	Bracket-Arm, Rocker
110	105-3758	1	Pin-Spring
120	98-9507	2	Washer-Shaft, R-Arm
130	110-3832	2	Washer-Plain
140	98-9504	2	Spring-Arm, Rocker
160	112-7020	6	Rocker Arm ASM
170	98-9502	6	Screw-Adjusting
180	98-9503	6	Nut
190	98-9506	3	Stud
200	98-9393	3	Nut
210	98-9385	3	Washer-Flat



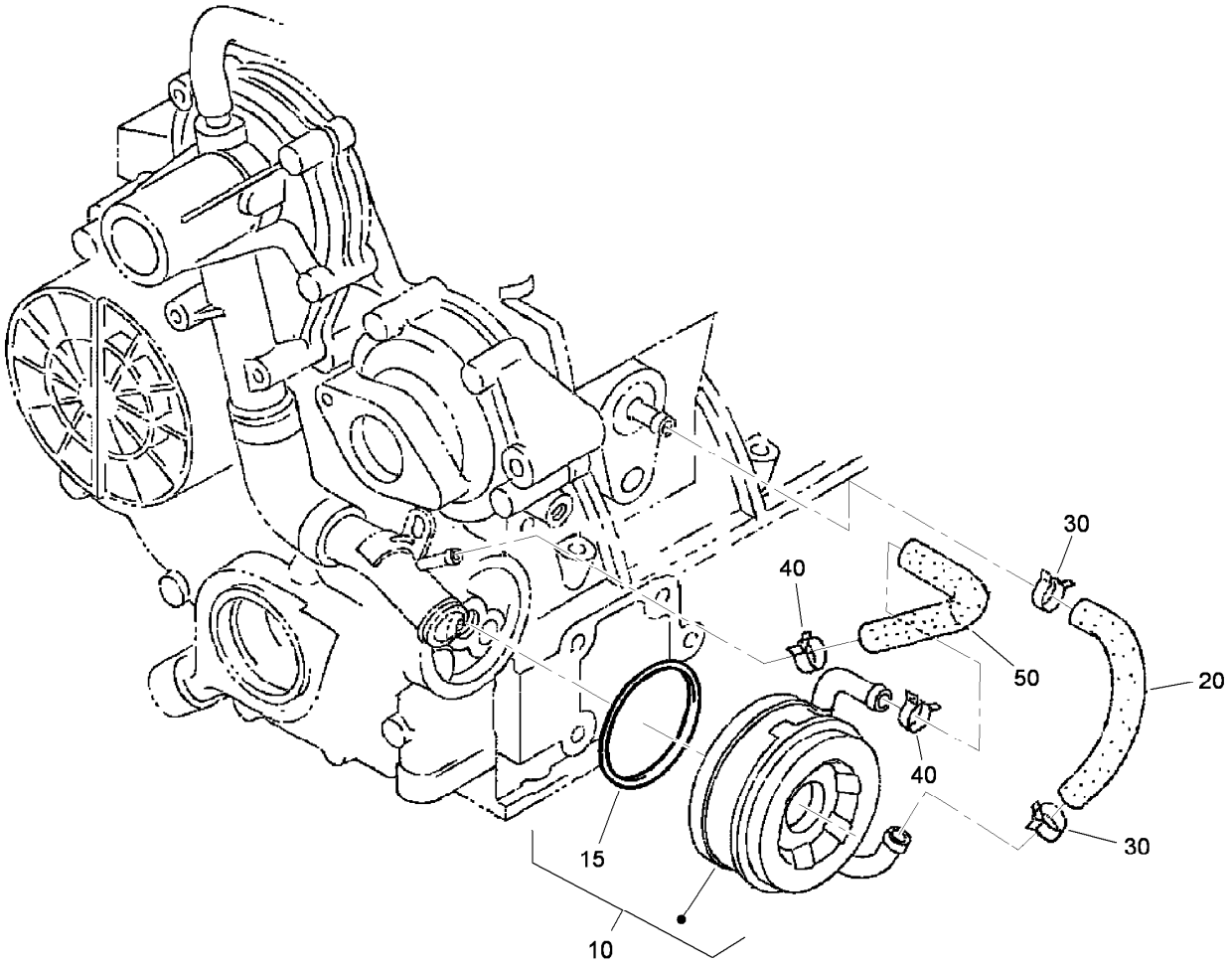
Turbo Charger Assembly

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	99-8342	3	Stud
110	98-7769	4	Stud
120	115-4101	1	Tube-Inlet, Turbo
130	115-4102	2	Band
140	115-4103	1	Pipe-Inlet, Breather



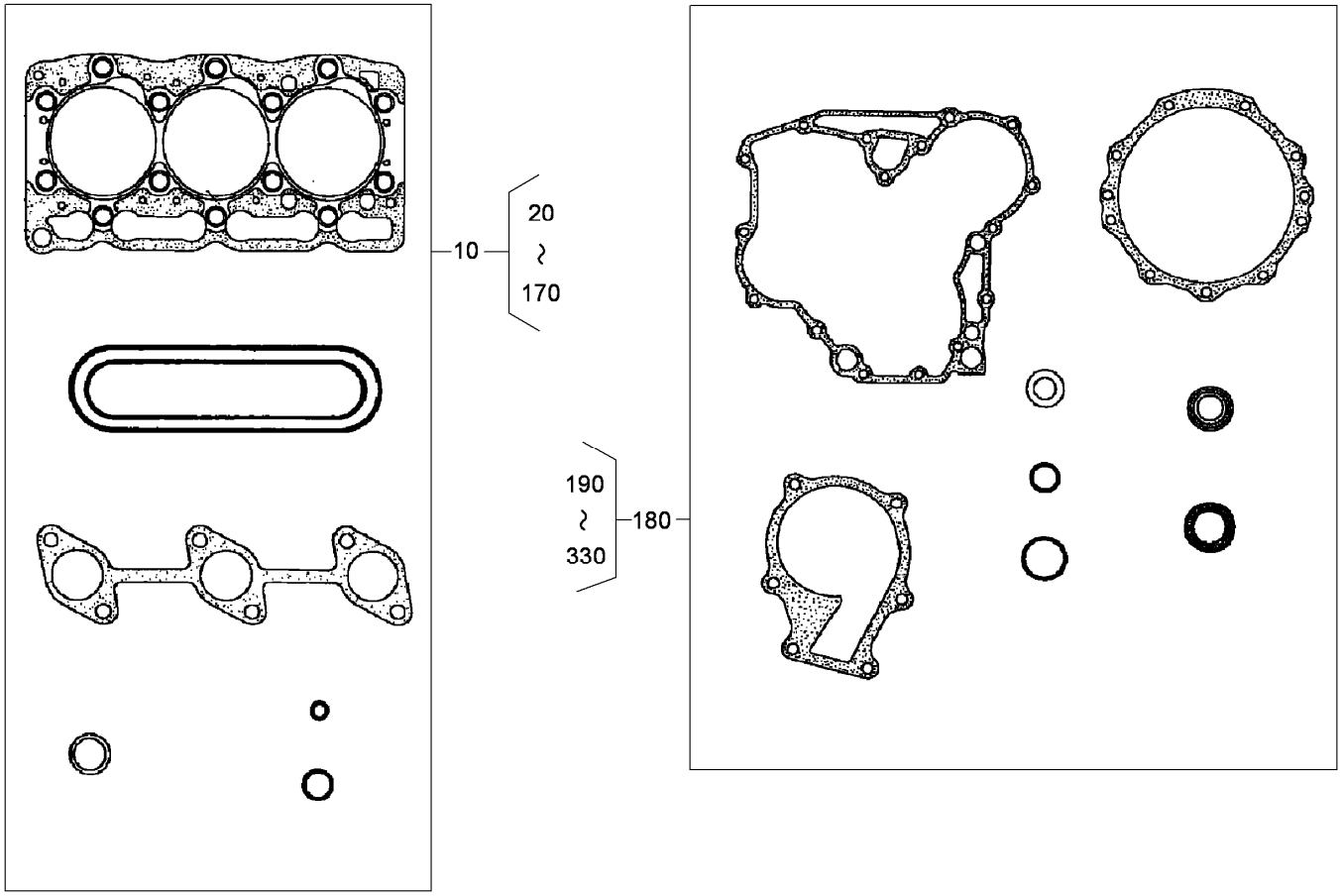
Turbo Charger Oil Pipe Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	98-9419	1	Oil Pipe ASM
20	98-9418	1	Bolt-Joint, Eye
30	99-8346	4	Gasket
40	98-9417	1	Bolt-Joint, Eye
50	98-9461	1	Pipe Line ASM
60	108-4422	1	Gasket
70	98-7605	2	Bolt
80	99-8383	1	Oil Pipe ASM
90	98-9722	1	O-Ring
100	98-9721	1	Pipe-Oil
110	98-9714	2	Clamp-Hose
120	98-9601	1	Clamp-Pipe
130	98-9591	1	Pin-Band



Oil Cooler Assembly

Ref.	*Part Number*	*Qty.*	*Description*
10	104-5158	1	Oil Cooler ASM
15	112-7030	1	O-Ring
20	98-9724	1	Pipe-Cooler, Oil
30	98-9579	2	Band-Pipe
40	98-9579	2	Band-Pipe
50	98-9578	1	Pipe-Return, Water

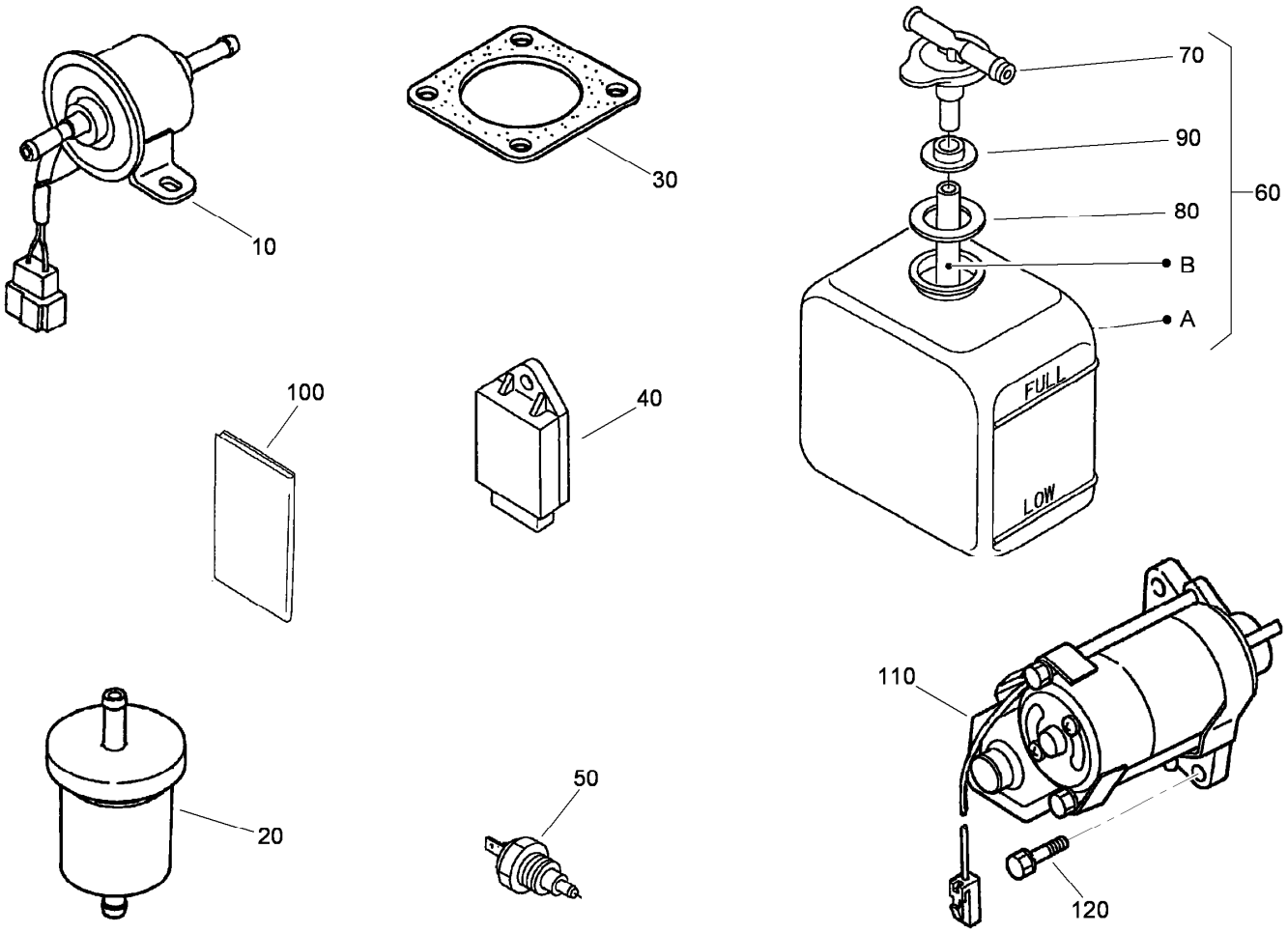


Gasket Kit

Ref.	Part Number	Qty.	Description
10	108-1415	1	Upper Gasket Kit
20	108-6573	1	Gasket-Head, Cylinder ●
40	99-8329	1	Gasket-Manifold, Intake ●
50	105-3767	1	Gasket ●
60	105-3768	1	Gasket ●
70	99-8327	1	Gasket-Manifold, Exhaust ●
80	99-8385	6	Seal-Stem, Valve ●
90	98-9615	1	Gasket-Cover, Head ●
100	98-9454	3	Gasket ●
110	99-3446	1	O-Ring ●
120	99-8346	4	Gasket ●
130	108-4422	1	Gasket ●
140	98-9722	1	O-Ring ●
150	98-9638	1	Gasket-Flange, Water ●
160	105-3748	1	Gasket-Thermostat ●
170	99-8343	1	Gasket-Muffler ●
180	112-7041	1	Lower Gasket Kit

Ref.	Part Number	Qty.	Description
190	98-9632	1	Gasket-Pump, Water ●
200	98-9633	1	Gasket-Case, Gear ●
210	105-3781	2	O-Ring ●
220	105-3777	2	O-Ring ●
230	98-9634	1	Gasket-Case, Bearing ●
240	98-9635	1	Gasket-Cover, Bearing Case ●
250	105-3783	1	O-Ring ●
260	105-3776	1	O-Ring ●
270	98-9729	1	O-Ring ●
280	98-9636	1	Gasket-Pump, Fuel ●
290	98-9682	1	Gasket ●
300	105-3788	1	O-Ring ●
310	98-7601	1	Seal-Oil ●
320	98-9637	1	Gasket ●
330	98-9683	1	Gasket-Cover, Solenoid ●

● Not illustrated



Electric Fuel Pump, Fuel Filter, Starter and Overflow Bottle Assemblies

Ref.	*Part Number*	*Qty.*	*Description*
10	107-0122	1	Pump-Fuel, Electric
20	98-7612	1	Filter-Fuel
30	99-8343	1	Gasket-Muffler
40	98-7611	1	Controller-Glow
50	98-9719	1	Thermoswitch
60	108-0638	1	Bottle-Overflow
70	105-3754	1	Cap
80	105-3755	1	Gasket
90	105-3756	1	Plate
100	115-4104	1	Operator Manual
110	98-9705	1	Starter ASM
120	98-7697	2	Bolt

Attachments and Accessories

For 30381N Groundsmaster 7210 Traction Unit

Product Name	Model/Part
TÜV Kit - Speed Decal 20kph	02980
TÜV Kit - German Vehicle Serial Plate	02983
Tooth Rake	08751
Finish Grader	08754
Drag Mat Carrier System	08756
Steel Drag Mat	08757
Coco Drag Mat	08758
Blade-Belt Kit, 72in Side Discharge Deck	105-7272
Yellow Hydraulic Cap	107-1576
Green Diesel Cap	107-2172
Premium Transmission/Hydraulic Tractor Fluid (55 Gallon Drum)	108-1183
Premium Transmission/Hydraulic Tractor Fluid (5 Gallon Pail)	108-1184
Fuse-In Line	111-5101
Spark Arrestor Kit	112-1688
5in Air Cleaner Safety Element	114-4057
42-pound Weight, For Kit 114-4090	114-4096
60-Amp Alternator Kit, Kubota 05 Series-Powered Traction Unit	117-5540
Overflow Tank Kit	117-5570
Fender Kit	117-9170
Roll-Over Protection Kit	117-9179
Brake Service Kit	120-0015
Premium Engine Oil 15w40 (55 Gallon Drum)	121-6394
Premium Engine Oil 15w40 (5 Gallon Pail)	121-6395
400-hour Filter Maintenance Kit	30052
Polar Trac Kit	30370
Polar Trac Cab	30371
Z-Stand Kit (For Model Year 2012 and earlier only.)	30375
Rear Quick Attach System	30377
V-Plow Mounting Kit	30378
Auxiliary Hydraulic Power Kit	30380
Auxiliary Power Unit	30382
CE Kit	30392
Debris Blower	30393
Grass Collection System	30460
48in V-Plow	30750

Notes:

Notes:

Count on it.