



Groundsmaster® 3505-D

Model No. 30826 - 270001301 and up.

Parts Catalog

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 illustrations and in part 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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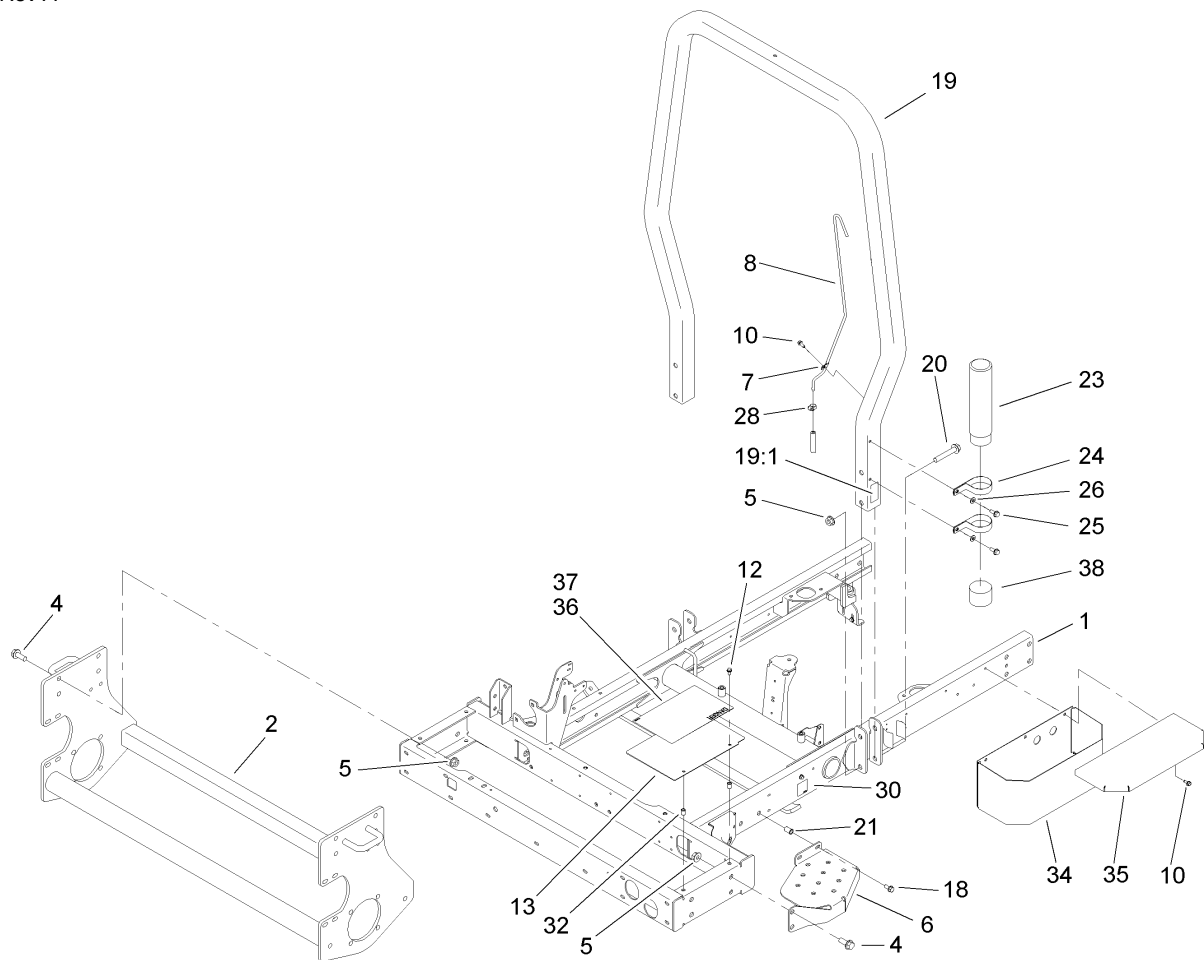
Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

AR.	as required	HYD.	hydraulic
ASM.	assembly	LH.	left hand
BBC.	blade brake clutch	NI.	nylon insert
CARR.	carriage	NPTF.	national pipe thread fine
DEG.	degrees	PFH.	phillips flat head
EXT.	external	PPH.	phillips pan head
FH.	flat head	PPHTF.	phillips pan head thread forming
GA.	gauge	PRH.	phillips round head
HD.	heavy-duty	PTH.	phillips truss head
HF.	hex flange	PTO.	power-take-off
HH.	hex head	RH.	right hand
HHF.	hex head flange	ROPS.	roll-over protection system
HHFTF.	hex head flange thread forming	SFH.	slotted fillister head
HJ.	hex jam	SHH.	slotted hex head
HLH.	hex lag head	SHWH.	slotted hex washer head
HOC.	height-of-cut	SPH.	slotted pan head
HSBH.	hex socket button head	SQH.	square head
HSFH.	hex socket flat head	SRH.	slotted round head
HSH.	hex socket head	STD.	standard
HWH.	hex washer head	TAP.	self tapping
HWHTF.	hex washer head thread forming	TTH.	torx truss head

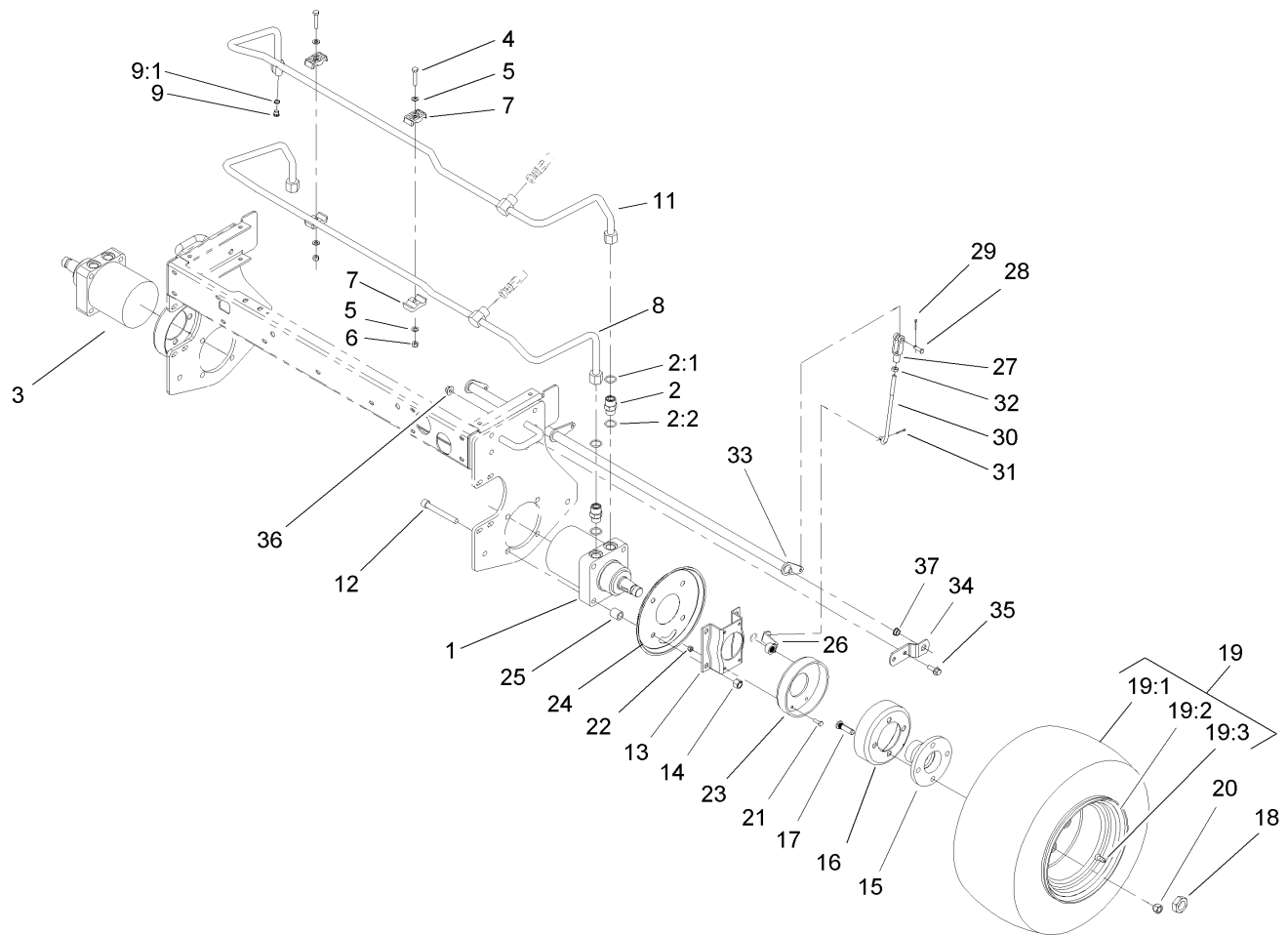
Footnotes

- ❶** Not illustrated
- ❷** Not serviced separately



Frame Assembly

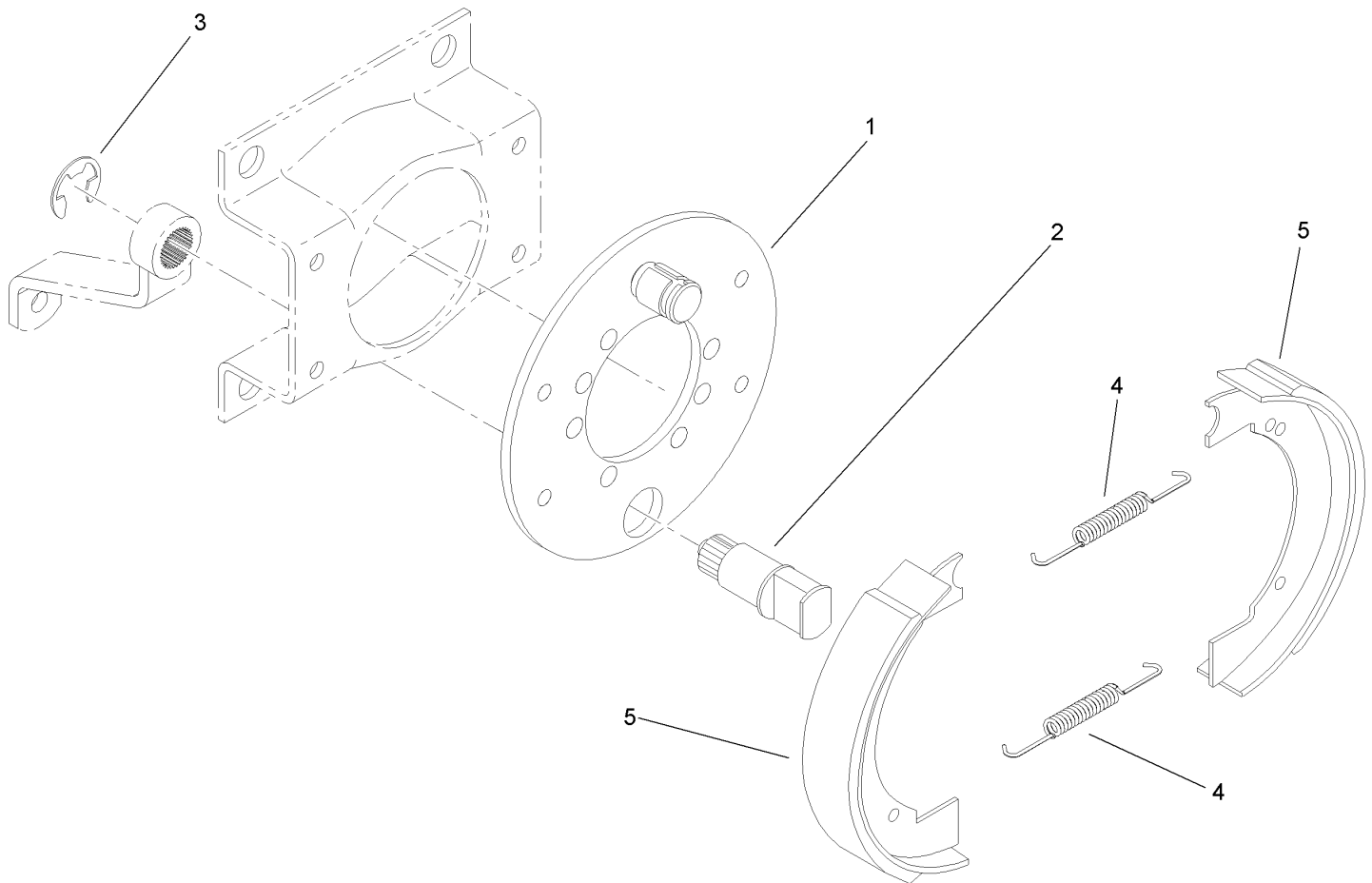
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	99-3610-03	1	Frame ASM	36	108-9015	1	Decal-Danger
2	95-8568-03	1	Frame-Lower	37	104-5181	1	Decal-Danger, Ce
4	3234-38	8	Screw-HHF	38	104-7048	1	Cap-Housing
5	32128-49	12	Nut-HHF				
6	99-3375-03	1	Step				
7	2412-72	3	Clip-Closed, Insulated				
8	95-8615	1	Tube-Breather				
10	32144-10	6	Screw-HWH				
12	3234-4	2	Screw-HHF				
13	104-0468-01	1	Cover-Frame				
18	3234-5	2	Screw-HHF				
19	107-7833	1	ROPS ASM				
19:1	107-7831	1	Decal-ROPS				
20	3234-40	4	Screw-HF				
21	32148-8	2	Insert-Threaded				
23	104-7050	1	Housing-Manual				
24	2412-133	2	R-Clamp				
25	32144-70	2	Screw-HWHTF				
26	3256-23	2	Washer-Flat				
28	2412-108	1	Clamp-Worm				
30	105-4674	1	Decal-Noise				
32	32148-6	2	Insert-Nut				
34	104-4634-03	1	Toolbox ASM				
35	104-4633-03	1	Toolbox Cover ASM				



Front Wheel and Brake Assembly

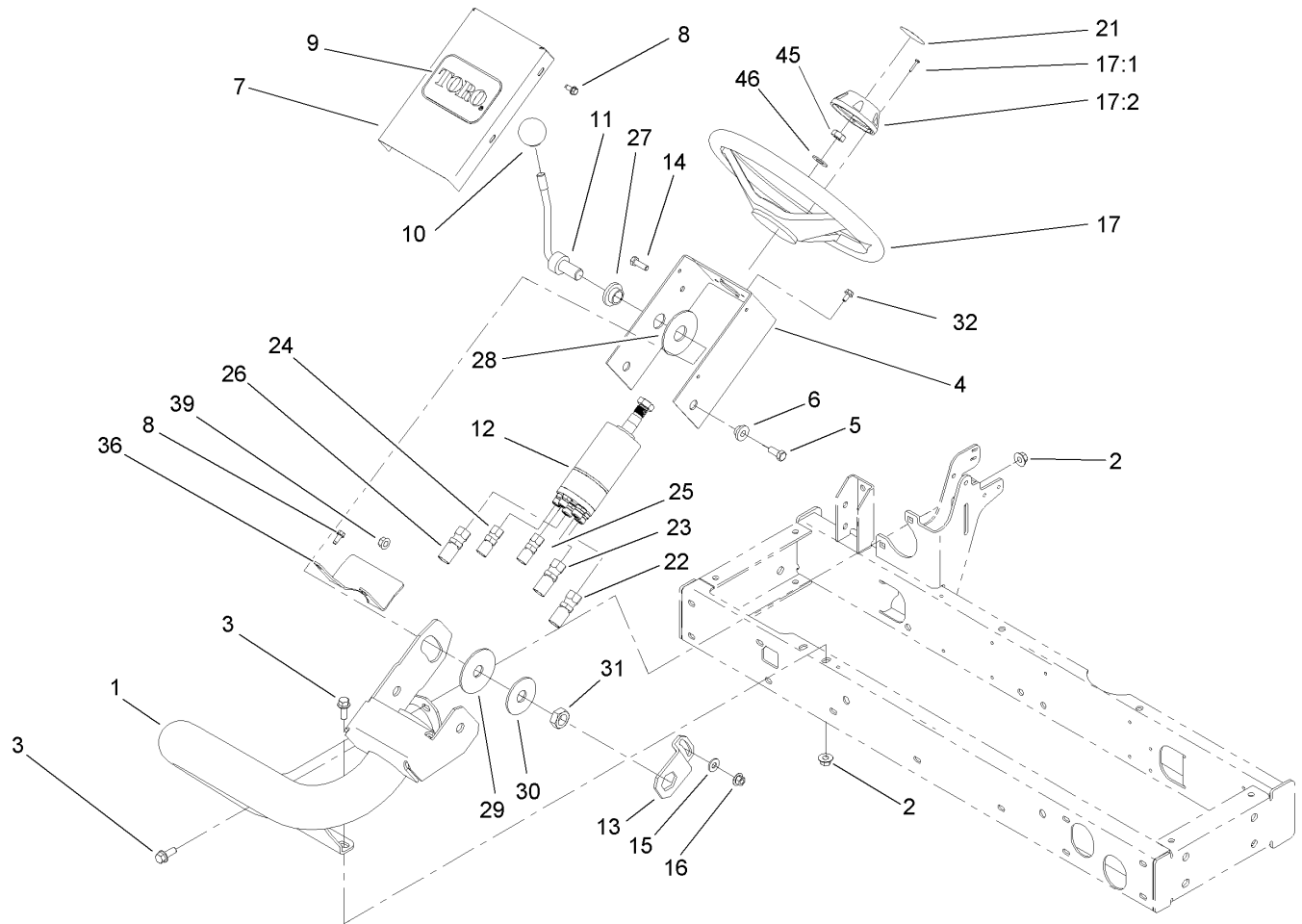
Ref	Part No.	Qty.	Description
1	110-8785	1	Motor-Wheel, LH
2	340-7	4	Adapter
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	110-8786	1	Motor-Wheel, RH
4	322-9	2	Screw-HH
5	3256-23	4	Washer-Flat
6	3296-29	2	Nut-Lock, NI
7	56-7971	4	Clamp-Tube
8	95-8783	1	Tube ASM
9	353-990	1	Plug
9:1	237-78	1	O-Ring
11	95-8784	1	Tube ASM
12	3274-99	8	Screw-HSH
13	84-2000-03	2	Bracket-Brake
14	3296-23	8	Nut-Lock, NI
15	93-6838	2	Hub-Wheel
16	10-6850	2	Drum-Brake
17	85-6540	8	Stud-Drive
18	26-3790	2	Nut-Lock
19		2	Tire And Wheel ASM
19:1	95-8656	1	Tire-4-Ply Turf-Trac, (20X10-10)
19:2	99-3474	1	Rim-Wheel
19:3	232-27	1	Stem-Valve

Ref	Part No.	Qty.	Description
20	242-50	8	Nut-Lug
21	321-5	8	Screw-HH
22	3296-42	8	Nut-Lock, NI
23	104-7705	2	Brake ASM
24	104-0485-03	2	Shield-Wheel
25	92-1715	8	Spacer
26	93-6850	2	Lever-Brake
27	282-2	2	Yoke
28	283-1	2	Pin-Clevis
29	3272-10	2	Pin-Cotter
30	104-4627	2	Rod-Adjusting
31	3272-6	2	Pin-Cotter
32	3220-2	2	Nut-Jam
33	104-4625-03	1	Brake Pivot Shaft ASM
34	95-8683	2	Bracket-Pivot, Brake
35	3234-11	4	Screw-HHF
36	32128-43	4	Nut-Flange
37	256-156	2	Bushing-Flange



Brake Assembly No. 104-7705

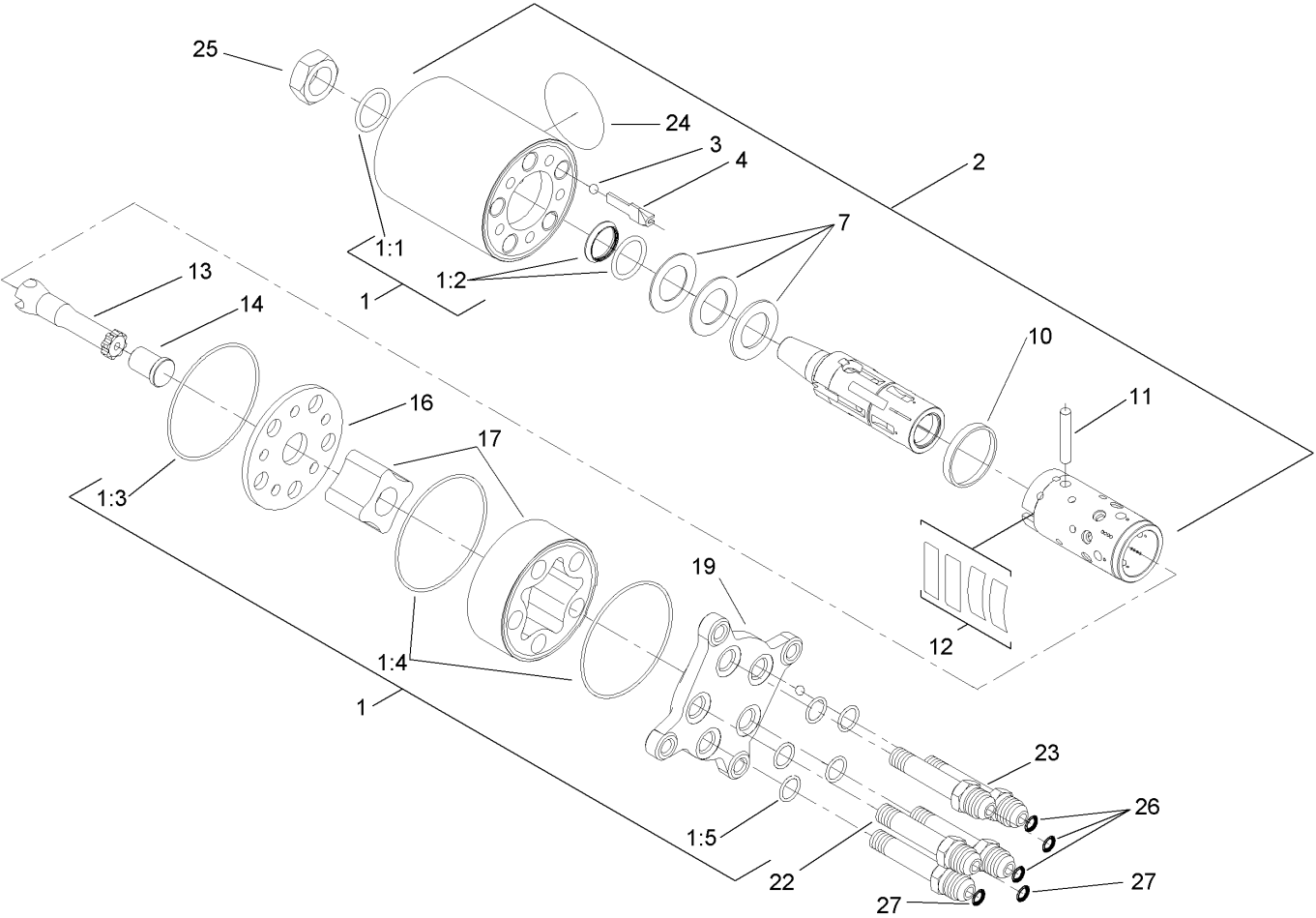
Ref	Part No.	Qty.	Description
1	70-9870	1	Plate-Backing
2	104-7707	1	Shaft-Cam, Brake
3	104-7706	1	E-Ring, Bowed
4	70-9880	2	Spring-Return
5	70-9840	2	Shoe-Brake



Steering Column Assembly

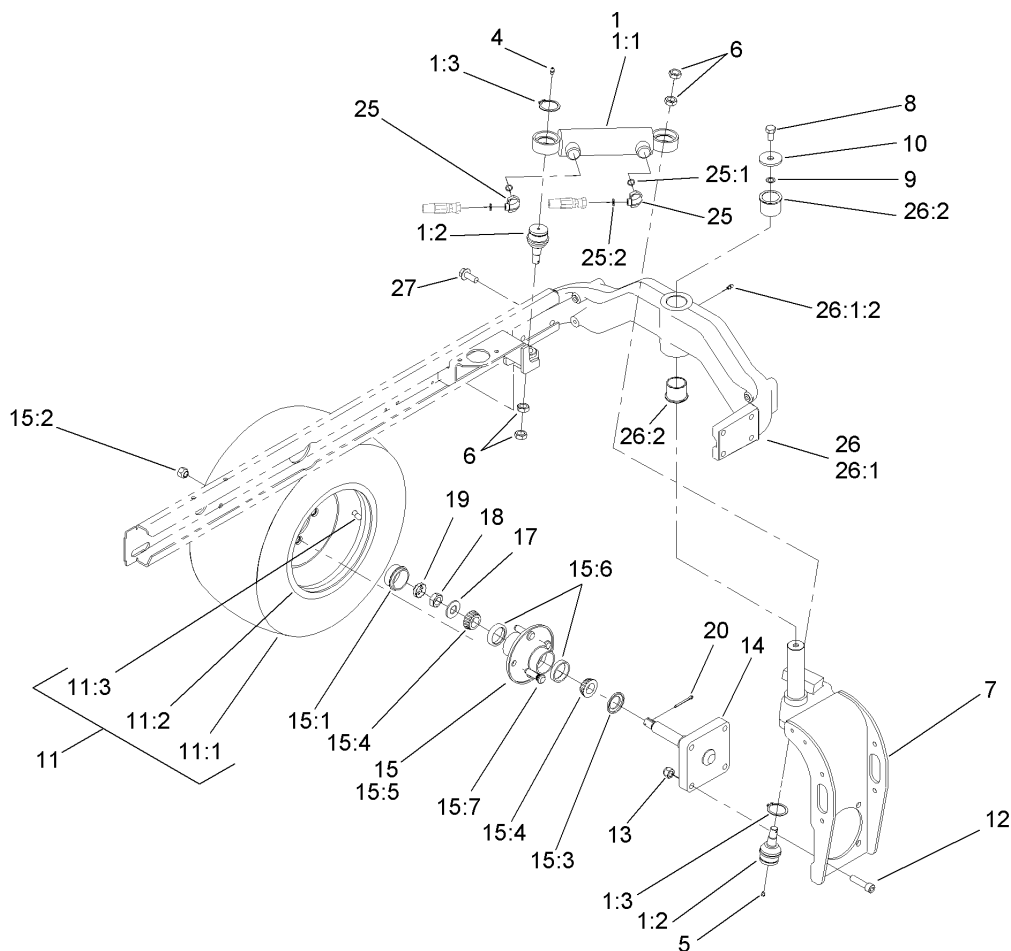
Ref	Part No.	Qty.	Description
1	108-9003-01	1	Arm-Steering
2	32128-43	4	Nut-Flange
3	3234-11	4	Screw-HHF
4	104-5185-01	1	Bracket-Valve, Steering
5	323-5	2	Screw-HH
6	93-5988	2	Hub-Pivot
7	95-8794-01	1	Cover-Valve, Steering
8	32144-10	5	Screw-HWH
9	67-1300	1	Decal
10	233-48	1	Knob
11	95-8798-03	1	Lever-Steering
12	104-5180	1	Valve-Steering
13	80-2880	1	Bracket-Tilt
14	322-5	1	Screw-HH
15	3256-3	1	Washer-Flat
16	32128-44	1	Nut
17	75-0560	1	Wheel-Steering
17:1	32144-21	1	Screw
17:2	68-5140	1	Cap-Wheel, Steering
21	68-5370	1	Decal
22	95-8842	1	Hose ASM
23	95-8843	1	Hose ASM
24	100-4892	1	Hose ASM
25	100-4893	1	Hose ASM

Ref	Part No.	Qty.	Description
26	95-8846	1	Hose ASM
27	99-3502	1	Boss
28	31-0390	1	Disc-Friction
29	82-9010	1	Disc-Friction
30	80-2930	1	Washer-Flat
31	3218-7	1	Nut-Jam
32	33103-012	4	Screw-HHF
36	99-3405-01	1	Shield-Steering
39	32128-21	2	Nut-HF
45	3296-33	1	Nut-Lock, NI
46	3256-27	1	Washer-Flat



Steering Valve Assembly No. 104-5180

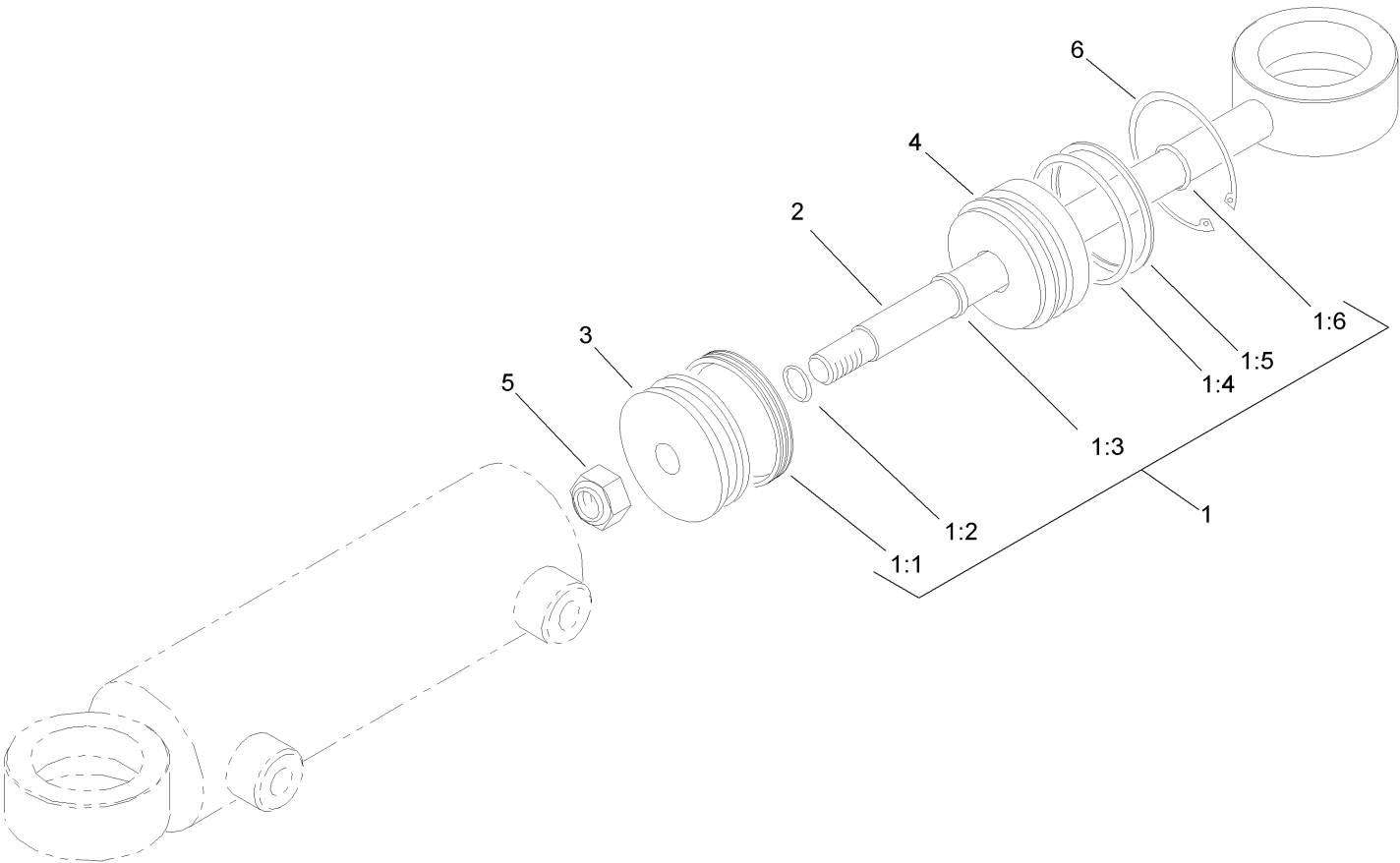
Ref	Part No.	Qty.	Description				
1	106-6716	1	Seal Kit				
1:1		1	Ring-Seal, Dust				
1:2		1	Seal-Shaft				
1:3		1	O-Ring				
1:4		2	O-Ring				
1:5		5	O-Ring				
2		1	Housing				
3		1	Ball				
4		1	Stop-Ball				
7		1	Bearing ASM				
10		1	Ring				
11		1	Pin-Cross				
12		1	Springs				
13		1	Shaft				
14		1	Spacer				
16		1	Plate-Distributor				
17		1	Gearwheel Set				
19		1	Cover-End				
22		1	Screw-Special				
23		4	Screw-Special				
24		1	Plate-Name				
25	3296-33	1	Nut-Lock, NI				
26	237-22	3	O-Ring				
27	237-21	2	O-Ring				



Rear Fork and Tire Assembly

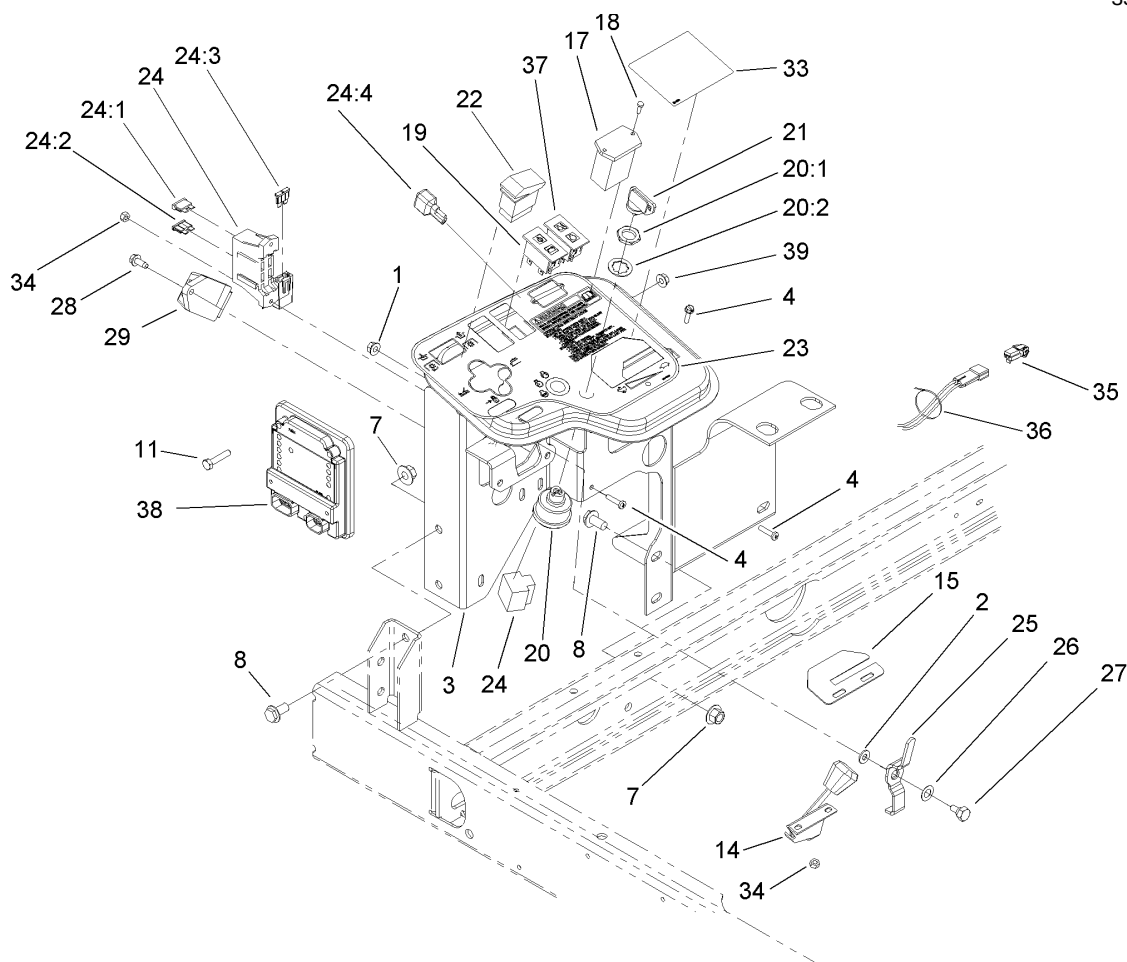
Ref	Part No.	Qty.	Description
②1		1	Steering Cylinder / Balljoint ASM
1:1	94-8141	1	HYD Cylinder ASM
1:2	106-6774	2	Joint-Ball
1:3	32151-104	2	Ring-Retaining, External
4	302-5	1	Fitting-Grease
5	302-59	1	Plug-Threaded
6	3220-6	4	Nut-Jam
7	95-8905-01	1	Fork-Rear
8	325-3	1	Screw-HH
9	3255-2	1	Washer-Lock / EXT
10	75-7730	1	Washer-Thrust
②11		1	Tire And Wheel ASM
11:1	95-8656	1	Tire-4-Ply Turf-Trac, (20X10-10)
11:2	95-8657	1	Rim-Wheel
11:3	232-27	1	Stem-Valve
12	3274-5	4	Screw-HSH
13	3296-23	4	Nut-Lock, NI
14	104-3966-03	1	2 Wheel Drive Hub ASM
15	80-6570	1	Hub ASM
15:1	241-119	1	Cap-Dust
15:2	242-50	4	Nut-Lug
15:3	253-129	1	Seal
15:4	254-94	2	Bearing-Cone, Tapered
15:5	80-6580	1	Hub

Ref	Part No.	Qty.	Description
15:6	254-72	2	Bearing-Cup, Tapered
15:7	10-6830	4	Stud-Type, Drive
17	93-0309	1	Washer-Tab
18	3220-7	1	Nut-Jam
19	93-0307	1	Nut-Lock, Retainer
20	3272-13	1	Pin-Cotter
25	340-132	2	Fitting-HYD, 90 DEG
25:1	237-78	1	O-Ring
25:2	237-21	1	O-Ring
26	107-7828	1	Rear Casting ASM
②26:1		1	Casting-Rear
26:1:2	302-5	1	Fitting-Grease
26:2	95-8805	2	Bushing
27	3234-38	8	Screw-HHF



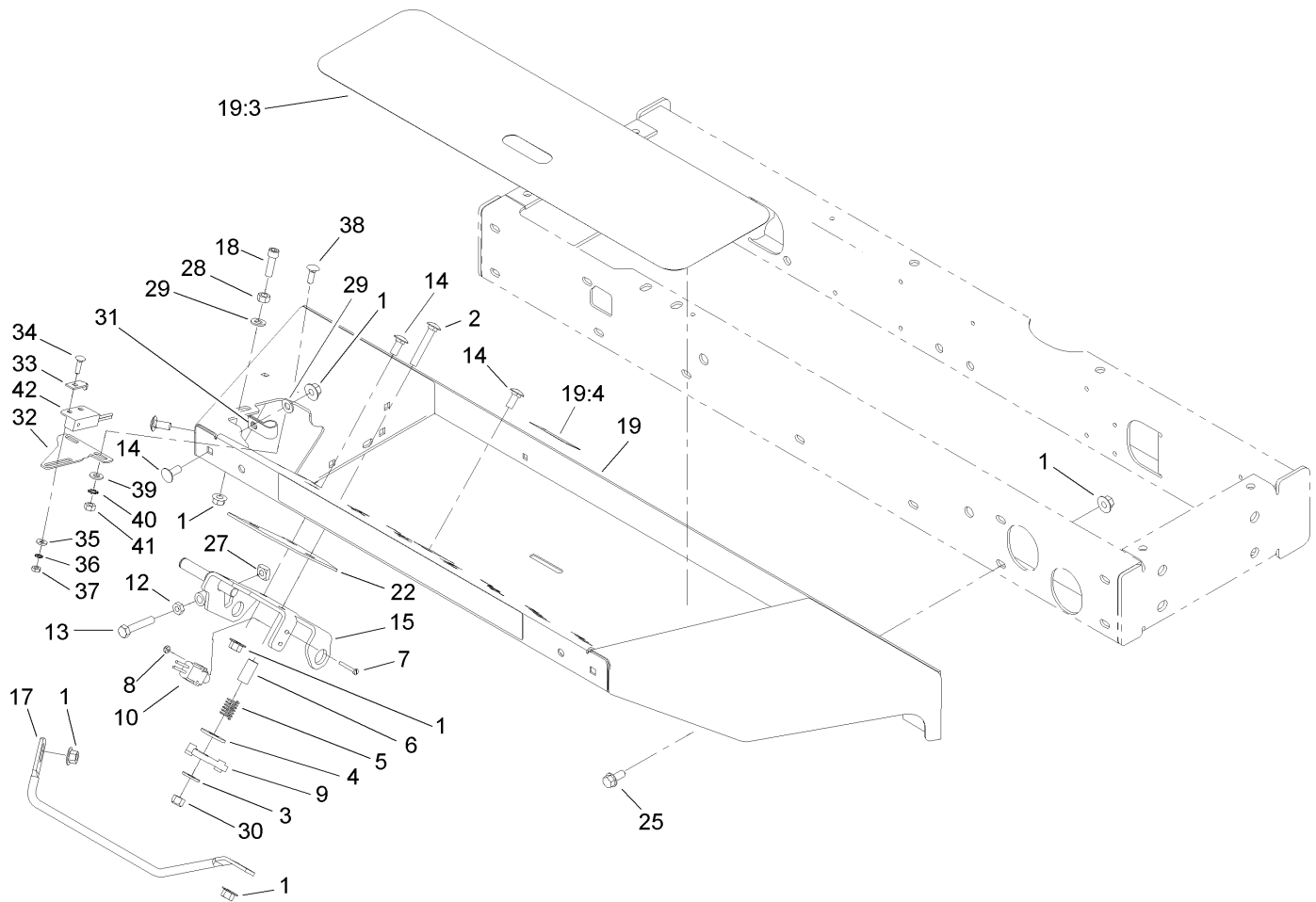
Hydraulic Cylinder Assembly No. 94-8141

Ref	Part No.	Qty.	Description				
1	86-5390	1	Seal Kit				
1:1		1	Uniring				
1:2		1	O-Ring				
1:3		1	Seal-Rod				
1:4		1	O-Ring				
1:5		1	Ring-Backup				
1:6		1	O-Ring				
2		1	Rod				
3		1	Piston				
4		1	Gland				
5		1	Nut-Lock				
6		1	Ring-Retaining				



Control Panel Assembly

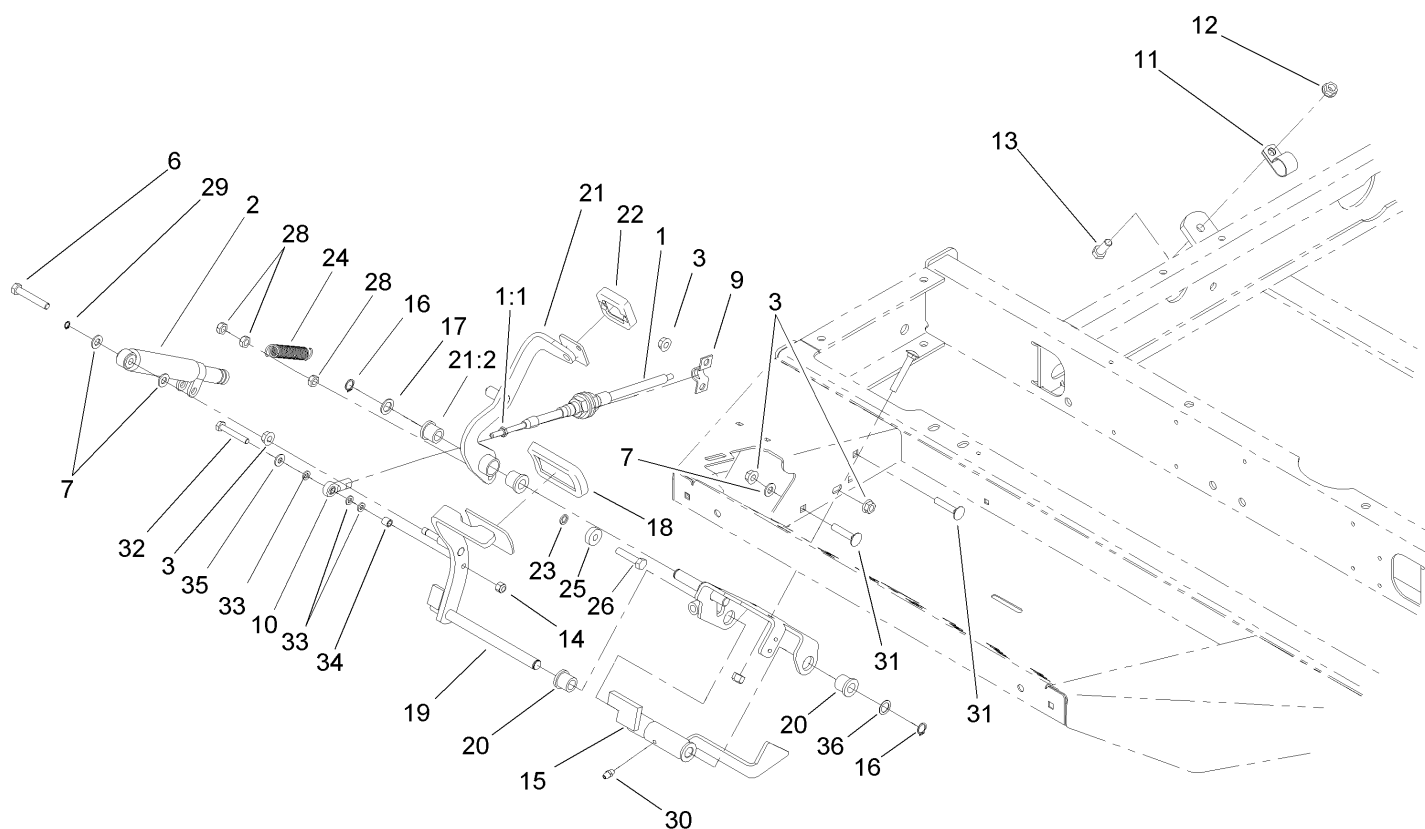
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	32128-32	1	Nut-HHF	26	3290-477	1	Washer-Curved
2	3256-22	1	Washer-Flat	27	63-3410	1	Screw-Shoulder
3	104-5190-03	1	Panel-Control	28	32144-10	1	Screw-HWH
4	3290-134	4	Screw	29	98-7611	1	Controller-Glow
7	32128-43	5	Nut-Flange	33	99-3558	1	Decal-Console, Ce
8	3234-1	5	Screw-HHF	34	3290-148	4	Nut-HF
11	321-8	3	Screw-HH	35	104-4875	1	Harness-Wire, Jumper
14	110-8795	1	Cable-Throttle, Woven	36	3290-379	1	Tie-Cable
15	104-0421	1	Plate-Stop, Throttle	37	100-8071	1	Lamp-Warning
17	75-6820	1	Hourmeter	38	106-9277	1	Module-Control, Standard
18	32144-18	2	Screw-HH	39	32128-33	3	Nut-HF
19	100-8070	1	Lamp-Warning				
20	104-2541	1	Switch ASM				
20:1	218-461	1	Nut-HH				
20:2	3254-5	1	Washer-Tooth				
21	63-8360	2	Key-Ignition				
22	95-8999	1	Switch				
23	108-9006	1	Decal-Console				
24	110-8774	1	Harness-Wire				
24:1	109355	1	Fuse-15 Amp				
24:2	218-578	2	Fuse-10 Amp				
24:3	94-6710	1	Fuse-Blade, 2 Amp				
24:4	100-4918	1	Diode				
25	99-3401-03	1	Lever-Valve, Lock				



Front Platform Assembly

Ref	Part No.	Qty.	Description
1	32128-20	18	Nut-HF
2	3230-6	1	Screw-CARR
3	3256-3	1	Washer-Flat
4	3256-40	1	Washer-Flat
5	65-9940	1	Spring
6	95-8866	1	Tube-Arm, Rocker
7	32105-9	2	Screw
8	3296-9	2	Nut-Lock
9	99-3593	1	Arm-Rocker
10	95-8900	1	Switch
12	3218-2	1	Nut-Jam
13	322-41	1	Screw-HH
14	3230-23	7	Screw-CARR
15	95-8869-03	1	Bracket-Pedal, Traction
17	95-8893	1	Bar-Deflector
18	3274-22	1	Screw-HSH
19	106-4154	1	Floorplate ASM
19:3	99-3478	1	Tread-Foot
19:4	99-3444	1	Decal-Mow / Transport
22	106-2661-01	1	Plate-Support
25	3234-5	10	Screw-HHF
27	99-3565	1	Nut-Square
28	3217-6	1	Nut-Hex
29	3256-23	2	Washer-Flat

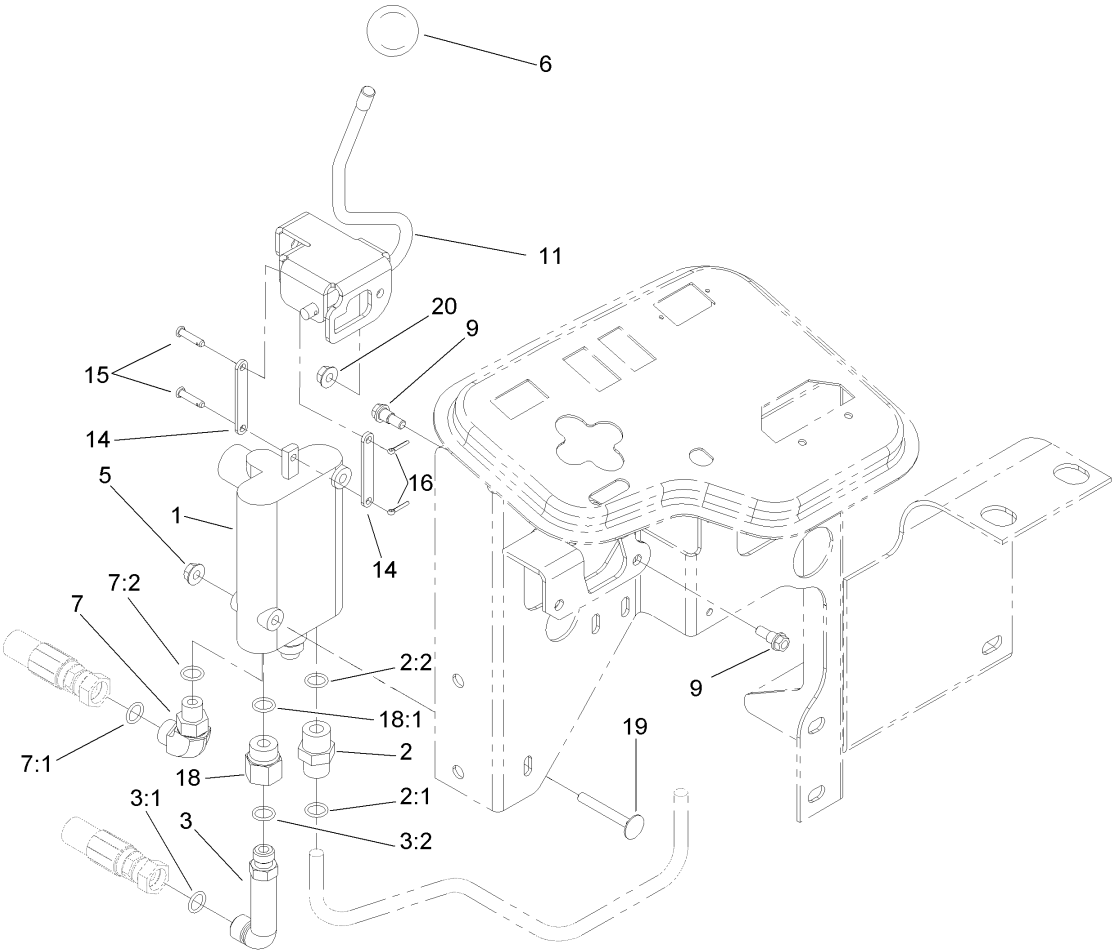
Ref	Part No.	Qty.	Description
30	3296-29	1	Nut-Lock, NI
31	2412-103	1	Clamp
32	100-4871	1	Bracket-Switch, Neutral
33	100-4872	1	Plate-Switch, Neutral
34	3229-20	1	Screw-CARR
35	3256-14	1	Washer-Flat
36	3255-17	1	Washer-Lock, EXT
37	3296-2	1	Nut-Lock
38	3229-1	2	Screw-CARR
39	3256-22	2	Washer-Flat
40	3255-7	2	Washer-Lock / EXT
41	3217-5	2	Nut-Hex
42	100-1270	1	Switch-Proximity



Traction Pedal Assembly

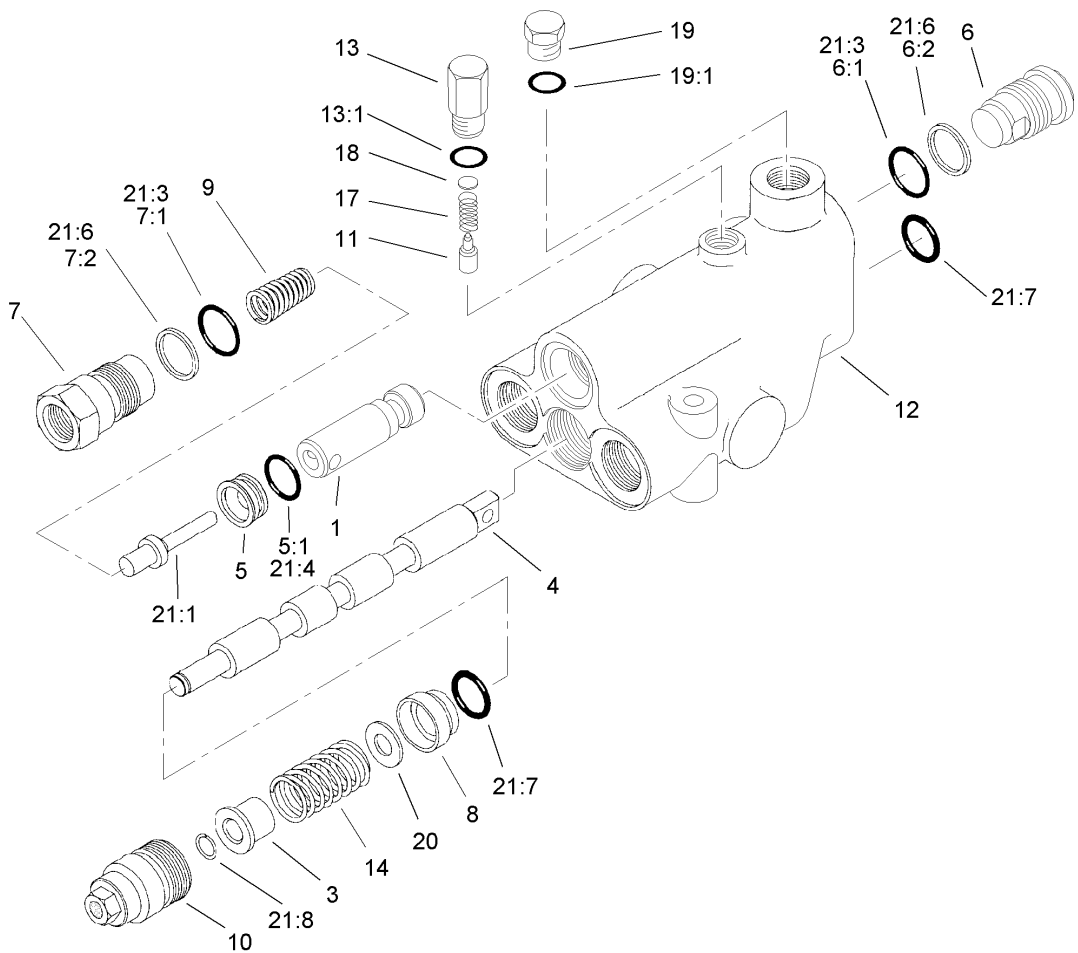
Ref	Part No.	Qty.	Description
1	100-4815	1	Cable-Control, Traction
1:1	3220-1	2	Nut-Jam
2	76-8870	1	Lever Damper ASM
3	32128-20	5	Nut-HF
6	322-10	1	Screw-HH
7	3256-23	3	Washer-Flat
9	93-2092	1	Clamp-Cable
10	2411-41	1	Joint-Ball
11	2412-41	1	Clamp
12	3290-357	1	Nut-HHF, Whiz
13	323-6	1	Screw-HH
14	3296-42	1	Nut-Lock, NI
15	95-8861	1	Slide
16	32151-84	2	Ring-Shaft, EXT
17	41-8440	1	Washer
18	74-9100	1	Pad-Pedal, Forward
19	104-4852-03	1	Traction Pedal ASM
20	256-243	2	Bearing-Flange
21	99-3379	1	Pedal-Reverse
21:2	256-243	2	Bearing-Flange
22	74-9110	1	Pad-Pedal, Reverse
23	75-5470	1	Spacer-Bearing
24	99-3476	1	Spring-Extension
25	251-259	1	Bearing-Ball

Ref	Part No.	Qty.	Description
26	322-7	1	Screw-HH
28	3296-47	3	Nut-Lock, NI
29	32151-3	1	Ring-Grip, EXT
30	302-5	1	Fitting-Grease
31	3230-27	1	Screw-CARR
32	321-10	1	Screw-HH
33	33093-00	3	Washer-Flat
34	99-3545	1	Spacer
35	3256-22	1	Washer-Flat
36	73-0040	4	Washer-Thrust



Control Valve Assembly

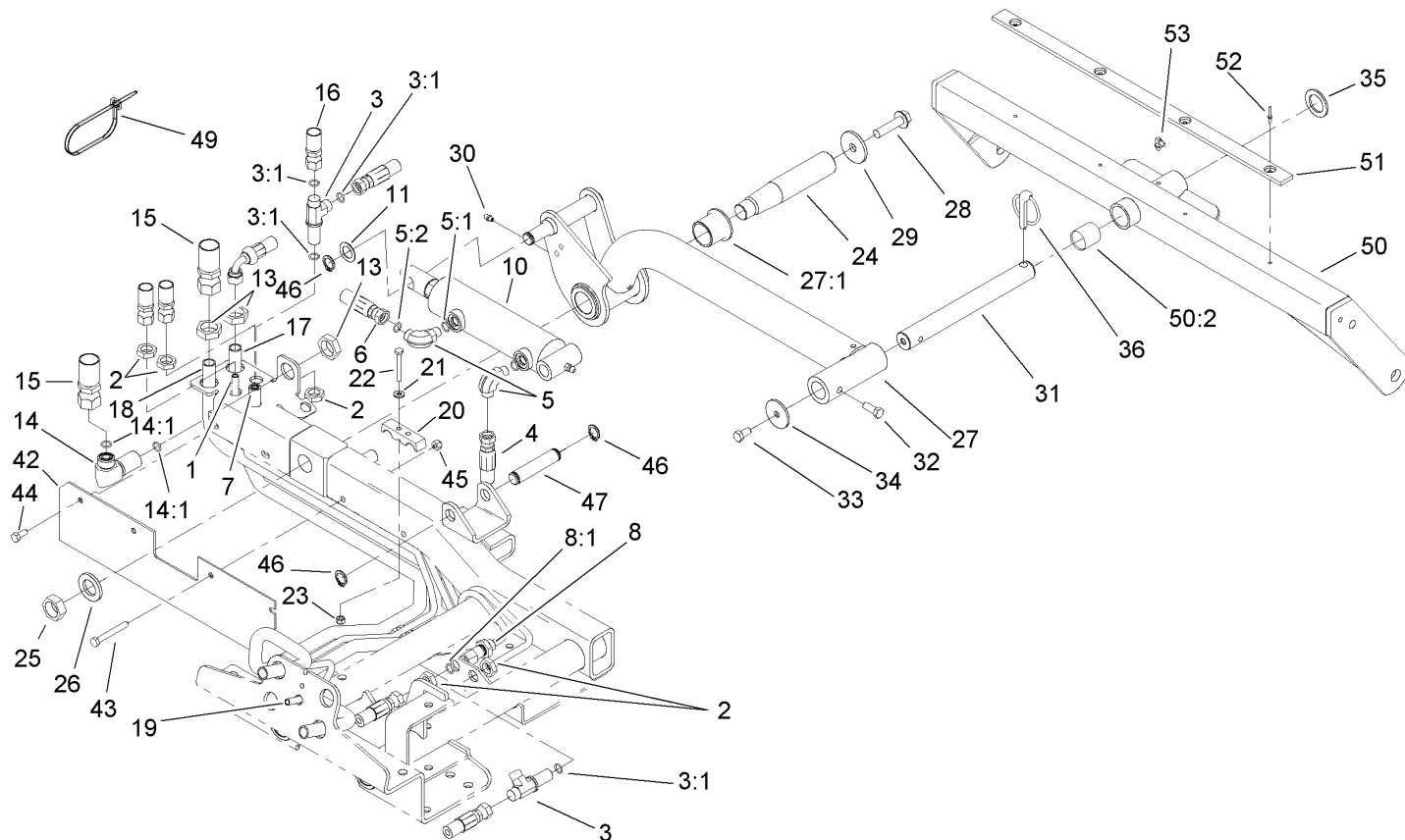
Ref	Part No.	Qty.	Description				
1	95-8689	1	Valve ASM				
2	340-3	1	Adapter				
2:1	237-22	1	O-Ring				
2:2	237-79	1	O-Ring				
3	69-4320	1	Fitting-HYD, 90 DEG				
3:1	237-22	1	O-Ring				
3:2	237-42	1	O-Ring				
5	32128-33	2	Nut-HF				
6	233-42	1	Knob				
7	340-77	1	Fitting-HYD, 90 DEG				
7:1	237-22	1	O-Ring				
7:2	237-42	1	O-Ring				
9	42-3560	2	Bolt-Shoulder				
11	95-8692	1	Lever ASM				
14	95-8634	2	Link				
15	58-3830	2	Pin-Clevis				
16	3272-5	2	Pin-Cotter				
18	353-397	1	Reducer-Adapter				
18:1	237-79	1	O-Ring				
19	3230-33	2	Screw-CARR				
20	32128-32	2	Nut-HHF				



Control Valve Assembly No. 95-8689

Ref	Part No.	Qty.	Description
1	99-3586	1	Plunger
3	58-6310	1	Spacer
24		1	Spool
5	58-6330	1	Seat
5:1	58-6340	1	O-Ring
6	58-6350	1	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	69-1800	1	Plug ASM
7:1	60-5720	1	O-Ring
7:2	58-6370	1	Washer
8	58-6400	1	Bushing
9	69-1810	1	Spring
10	58-6420	1	Cap
11	99-3585	1	Detent-Plunger
12		1	Body
13	99-3588	1	Plug ASM
13:1	60-6410	1	O-Ring
14	99-3531	1	Spring
17	99-3587	1	Spring
18	60-6450	1	Disc
19	353-989	1	Plug-Hex, Hollow
19:1	237-42	1	O-Ring
20	65-2770	1	Washer

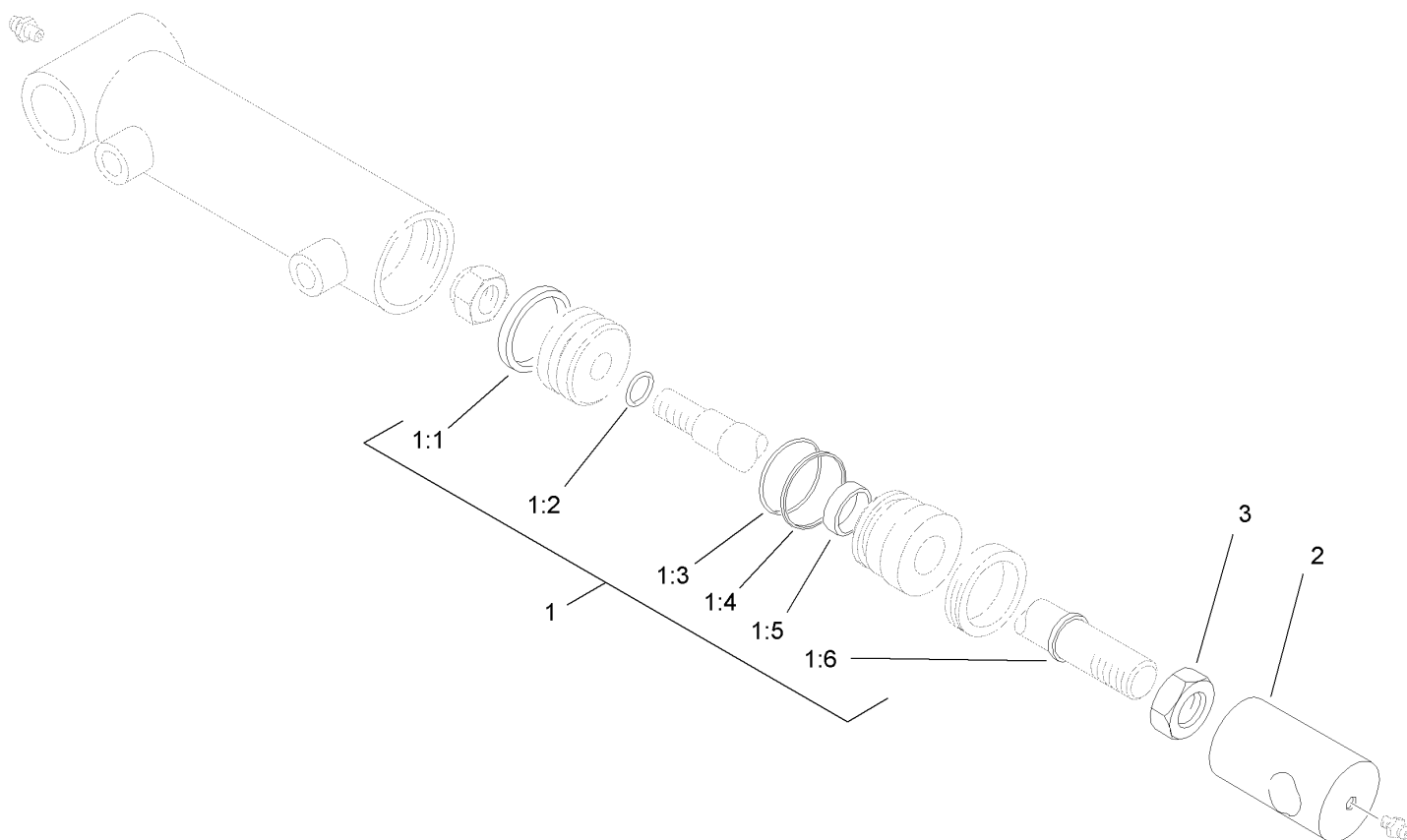
Ref	Part No.	Qty.	Description
21	99-3589	1	Seal Kit
21:1	58-6290	2	Poppet
21:2	58-6320	1	Wiper
21:3	60-5720	2	O-Ring
21:4	58-6340	2	O-Ring
21:5	93-6314	1	O-Ring
21:6	58-6370	2	Washer
21:7	58-6450	2	O-Ring
21:8	58-6460	1	Ring-Retaining
21:9		1	Seal-Dust



Rear Lift Arm Assembly

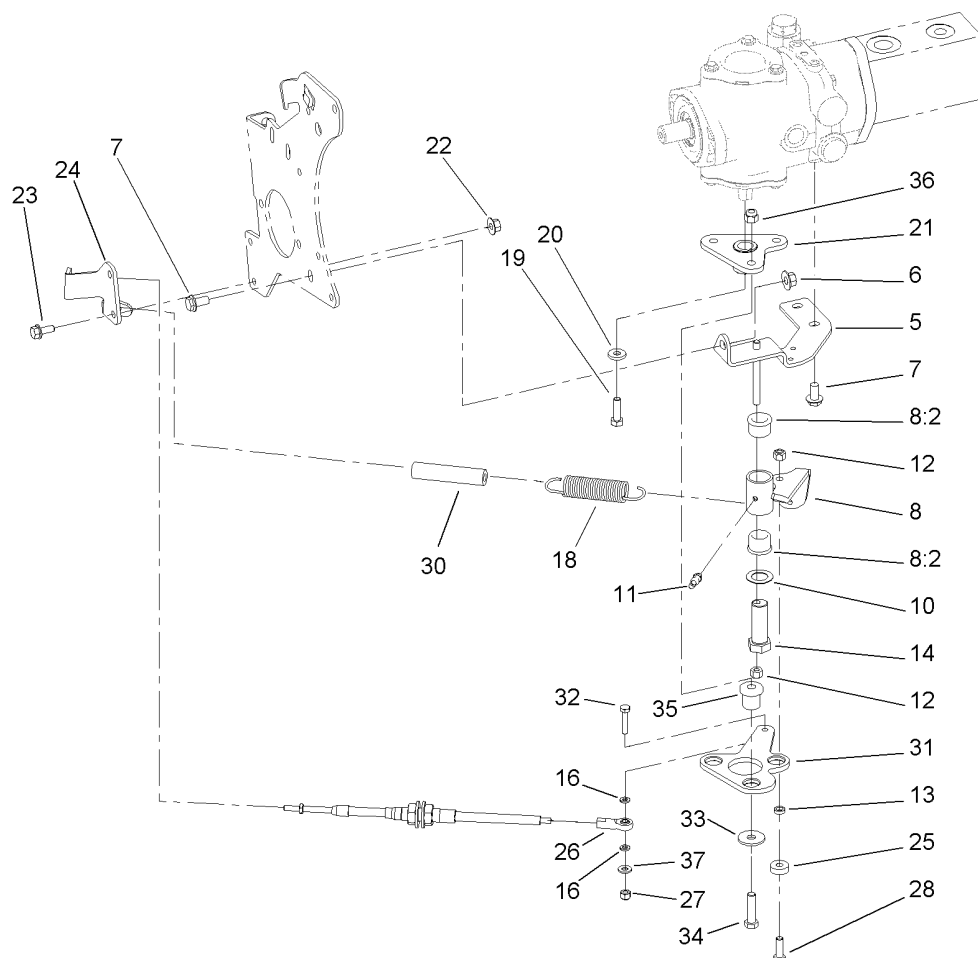
Ref	Part No.	Qty.	Description
1	104-0402	1	Tube ASM
2	340-70	5	Nut-Lock
3	340-68	2	Fitting-Tee, Bulkhead
3:1	237-22	3	O-Ring
4	104-0407	1	Hose ASM
5	340-77	2	Fitting-HYD, 90 DEG
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	99-3579	1	Hose ASM
7	104-0403	1	Tube ASM
8	340-71	1	Fitting-Straight, Bulkhead
8:1	237-22	2	O-Ring
10	108-9033	1	Cylinder-HYD
11	3-6498	1	Washer-Thrust
13	340-74	3	Locknut-Bulkhead
14	340-72	1	Fitting-Bulkhead, 90 DEG
14:1	237-65	2	O-Ring
15	108-9004	2	Hose ASM
16	94-6383	1	Hose ASM
17	104-0401	1	Tube ASM
18	104-0400	1	Tube ASM
19	104-0404	1	Tube ASM
20	99-3641	2	Clamp-Tube
21	3256-22	4	Washer-Flat

Ref	Part No.	Qty.	Description
22	321-11	2	Screw-HH
23	3296-42	2	Nut-Lock, NI
24	95-8990	1	Shaft-Pivot, Rear
25	3220-9	1	Nut-Jam
26	86-1480	1	Washer
27	100-4938	1	Rear Lift Arm ASM
27:1	69-6470	2	Bushing-Caster
28	3234-27	1	Screw-Flange
29	75-7730	1	Washer-Thrust
30	302-5	1	Fitting-Grease
31	100-4944	1	Shaft-Pivot, Cutting Unit
32	323-6	1	Screw-HH
33	323-4	1	Screw-HH
34	63-7400	1	Washer-Rebound
35	3-6781	1	Washer-Thrust
36	283-71	1	Pin-Lynch
42	104-0453-03	1	Guard
43	322-12	2	Screw-HH
44	322-3	2	Screw-HH
45	32128-20	4	Nut-HF
46	32120-93	3	Ring-Retaining, EXT
47	95-8575	1	Pin
49	3334-945	2	Tie-Cable
50	104-4229	1	Rear Carrier Frame ASM



Hydraulic Cylinder Assembly No. 108-9033

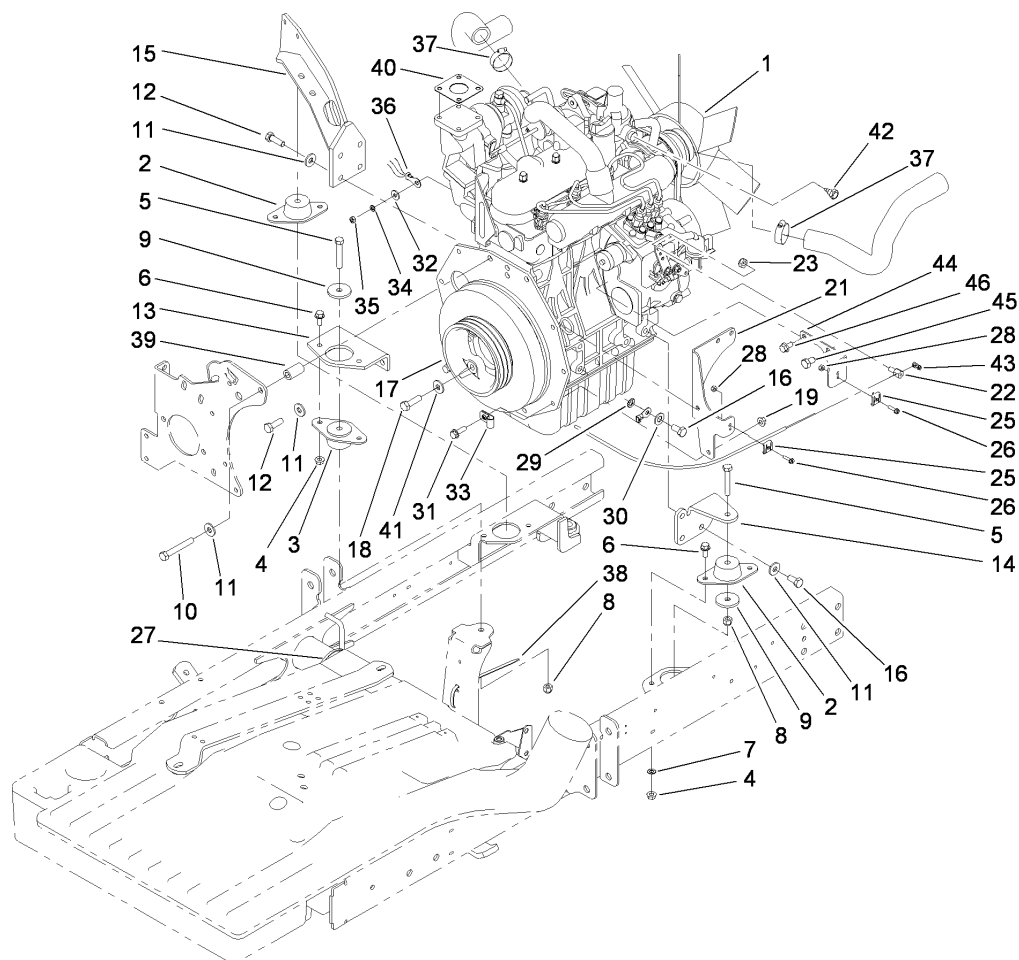
Ref	Part No.	Qty.	Description				
1	99-8163	1	Seal Kit				
21:1		1	Uniring				
21:2		1	O-Ring				
21:3		1	O-Ring				
21:4		1	Washer-Back-Up				
21:5		1	Seal-Dust				
21:6		1	Seal-Rod				
2	108-9035	1	Clevis				
3	3220-7	1	Nut-Jam				



Neutral Arm Assembly

Ref	Part No.	Qty.	Description
5	95-8960-03	1	Bracket-Neutral
6	32128-43	1	Nut-Flange
7	3234-1	3	Screw-HHF
8	104-0422	1	Neutral Arm ASM
8:2	256-113	2	Bushing-Flange
10	3-6498	1	Washer-Thrust
11	302-60	1	Fitting-Grease, 90 DEG
12	3296-29	2	Nut-Lock, NI
13	100-4817	1	Spacer-Bearing
14	76-8640	1	Stud-Traction
16	33093-00	2	Washer-Flat
18	94-1369	1	Spring-Extension
19	3210-6	1	Screw-HH
20	88-7200	1	Washer-Flat
21	99-3598-03	1	Hub ASM
22	32128-44	2	Nut
23	3234-5	2	Screw-HHF
24	104-0464-03	1	Bracket-Support, Cable
25	251-259	1	Bearing-Ball
26	2411-41	1	Joint-Ball
27	3296-42	1	Nut-Lock, NI
28	3274-104	1	Screw-HSBH
30	99-3556	1	Hose
31	99-3594-03	1	Lever-Pump

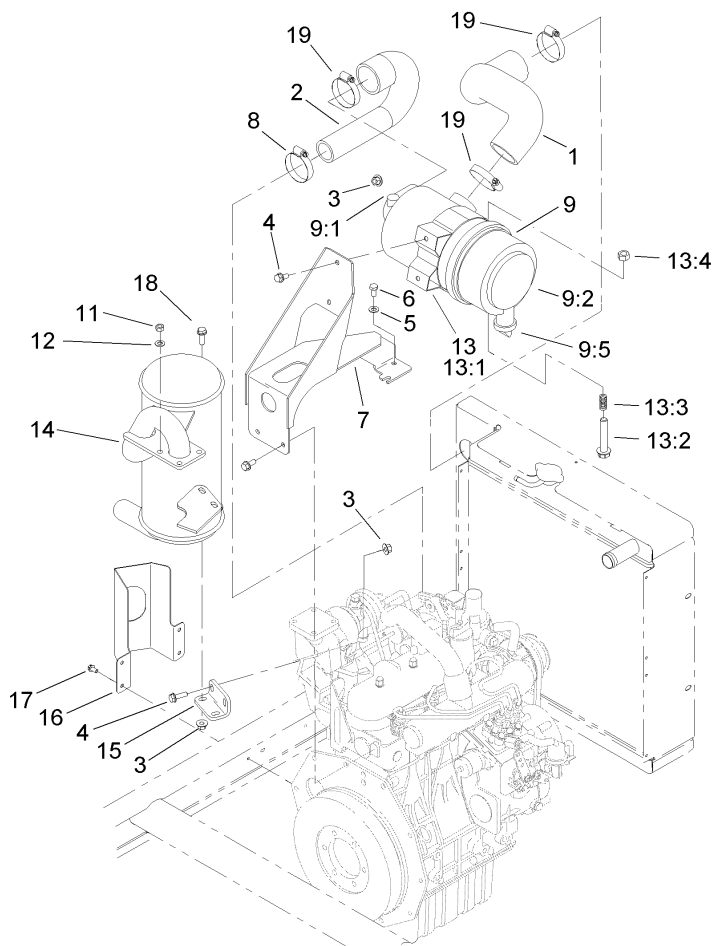
Ref	Part No.	Qty.	Description
32	321-8	1	Screw-HH
33	2844	3	Washer
34	95-3857	3	Screw-HSBH
35	63-9750	3	Mount
36	3296-39	3	Nut-Lock, NI
37	3256-22	1	Washer-Flat



Engine Assembly

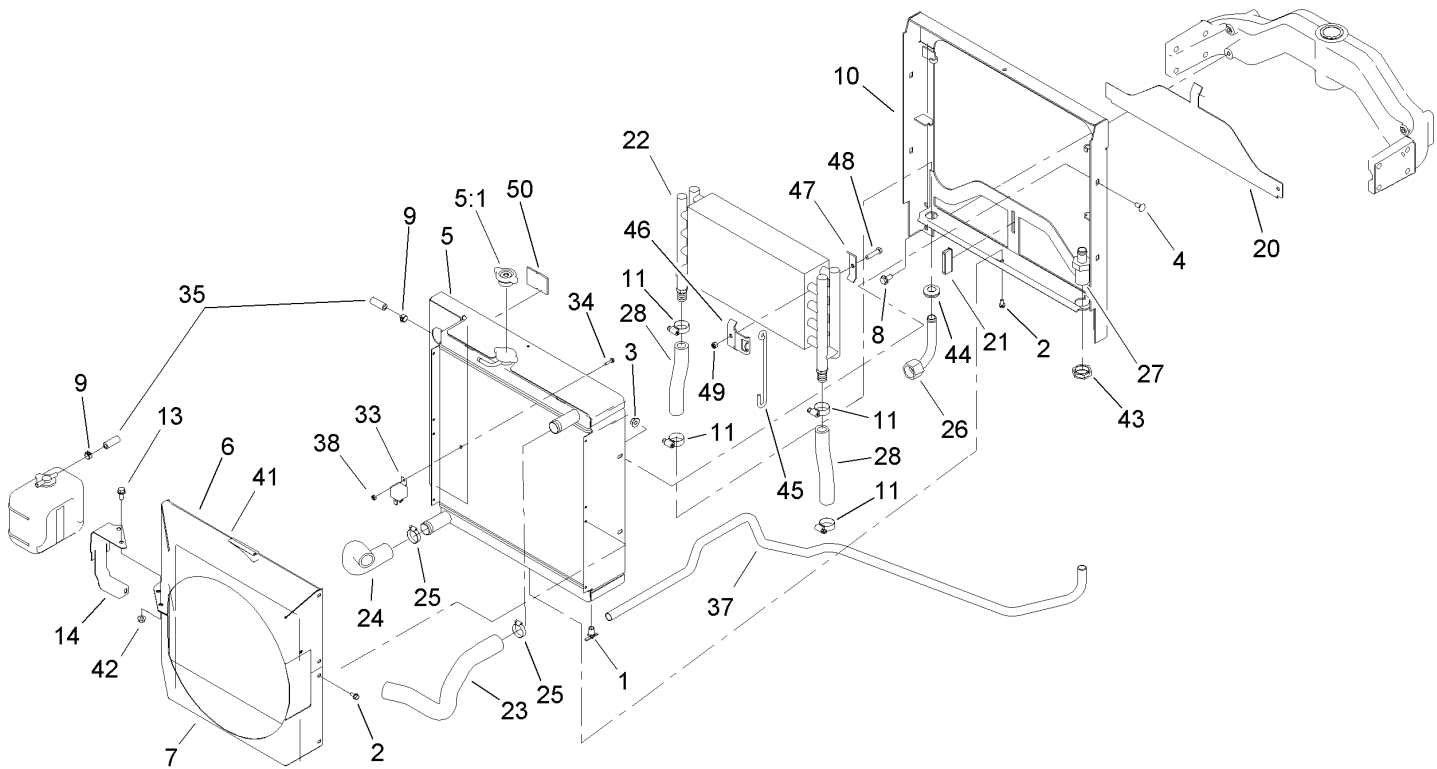
Ref	Part No.	Qty.	Description
1	107-7822	1	Engine-Diesel
2	83-1030	2	Mount-Engine
3	93-5265	1	Mount-Engine
4	32128-20	6	Nut-HF
5	323-11	3	Screw-HH
6	3234-5	6	Screw-HHF
7	3255-8	1	Washer-Lock
8	3296-39	3	Nut-Lock, NI
9	80-8560	3	Washer-Hardened
10	42-9370	1	Screw-HH
11	80-6990	9	Washer-Hardened
12	95-8812	5	Screw-HH
13	99-3618-03	1	Mount-Engine, Front
14	95-8937-03	1	Mount-Engine, LH
15	100-4838-03	1	Mount-Engine
16	63-7790	4	Screw-Cap
17	99-3626-03	1	Pulley
18	56-2140	3	Bolt
19	32128-44	2	Nut
21	100-4867-03	1	Support-Throttle, Filter
22	98-9311	1	Swivel-Throttle
23	3296-20	1	Nut-Lock, NI
25	81-1690	2	Clamp-Cable
26	32105-13	2	Screw-HWH

Ref	Part No.	Qty.	Description
27	3290-379	2	Tie-Cable
28	3296-2	2	Nut-Lock
29	3255-9	1	Washer-Lock
30	3256-25	1	Washer-Flat
31	3234-17	2	Screw-HHF
32	3256-78	1	Washer-Flat
33	2412-10	1	R-Clamp
34	43-5930	1	Washer-Spring
35	48-7890	1	Nut
36	99-3441	1	Harness-Wire, Fusible Link
37	2412-34	2	Clamp-Hose
38	3290-378	14	Tie-Cable
39	95-8736	1	Spacer
40	98-9611	1	Gasket
41	3256-24	3	Washer-Flat
42	106-7772	1	Thermoswitch
43	112-9919	1	Stop-Cable, Throttle
44	110-9009-03	1	Bracket-Cable, Throttle
45	70-8470	1	Screw-HH
46	33104-016	1	Screw-HHF



Air Cleaner and Muffler Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-0420	1	Hose-Air Intake, Upper	17	32144-4	4	Screw-HWH
2	99-3643	1	Hose-Air Intake, Lower	18	3234-17	3	Screw-HHF
3	32128-44	6	Nut	19	2412-130	3	Clamp-Hose
4	3234-5	3	Screw-HHF				
5	3256-23	4	Washer-Flat				
6	33114-016	4	Screw-HH				
7	99-3648-03	1	Air Filter Mount ASM				
8	2412-92	1	Clamp-Hose				
9	100-4824	1	Air Cleaner ASM				
9:1	285-17	1	Plug-Pipe				
9:2	104-0497	1	Cover ASM				
9:5	104-0498	1	Valve-Vacuator				
●9:6	108-3810	1	Filter-Air				
●9:7	104-4897	1	Gasket				
11	33014-00	4	Nut-Hex				
12	3253-4	4	Washer-Lock				
13	100-4825	1	Band-Mounting, Air Cleaner				
●13:1		1	Clamp ASM				
13:2	94-3653	1	Bolt				
13:3	94-3654	1	Spring				
13:4	48-9510	1	Nut				
14	100-4810	1	Muffler				
15	95-8943-03	1	Bracket-Muffler				
16	99-3425-03	1	Guard-Exhaust				

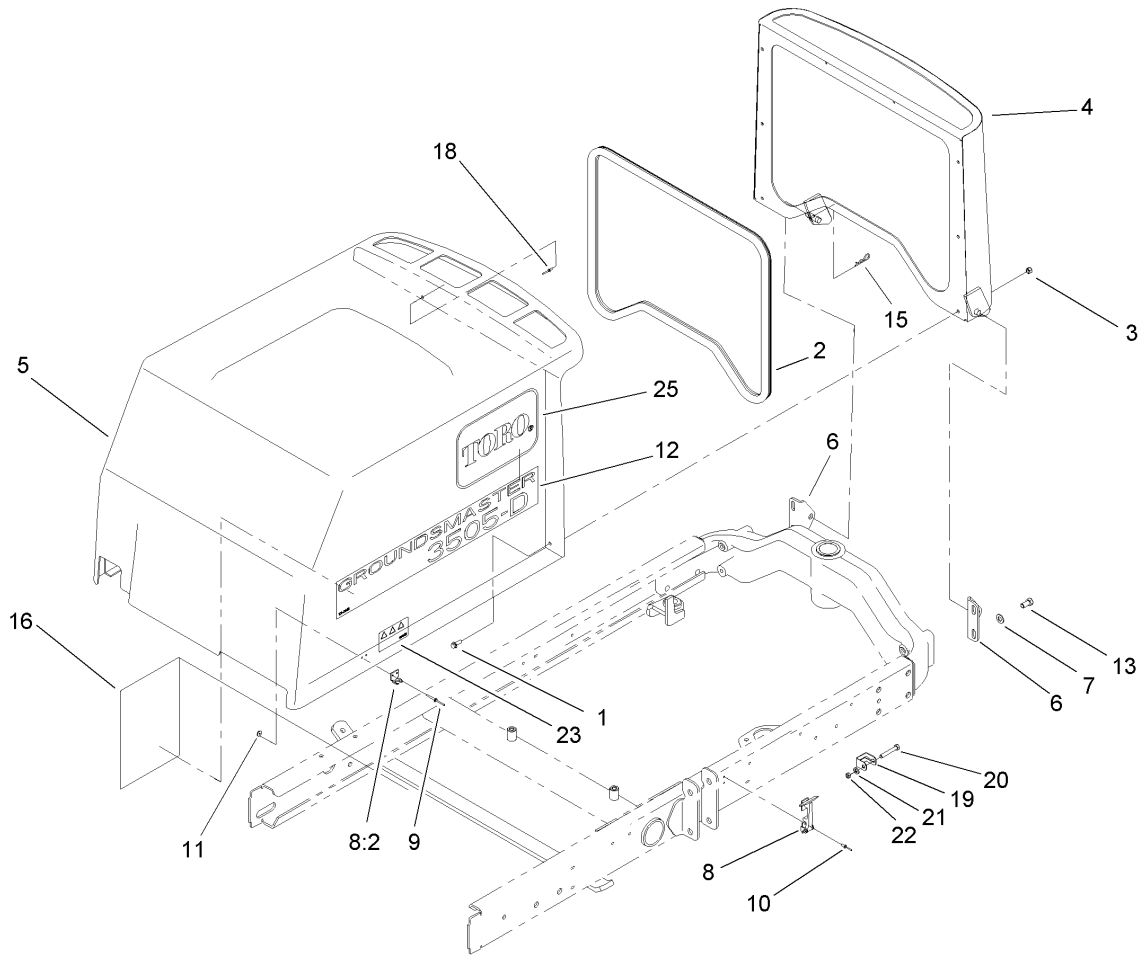


Water overflow bottle
is furnished with engine

Radiator Assembly

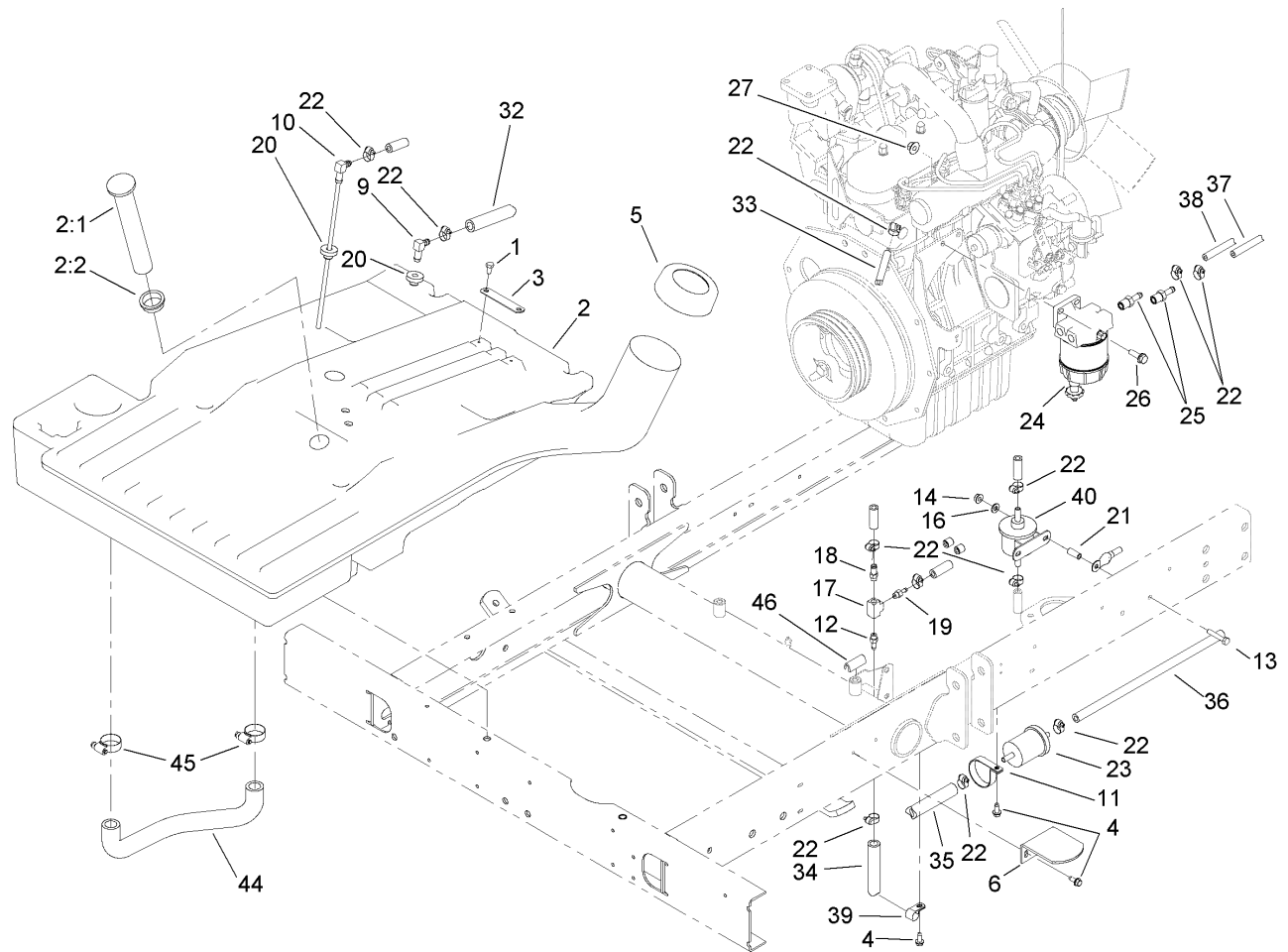
Ref	Part No.	Qty.	Description
1	304-46	1	Draincock
2	32104-116	11	Screw
3	32128-44	4	Nut
4	3230-1	4	Bolt-CARR
5	99-3637	1	Radiator
5:1	93-5957	1	Cap-Radiator
6	100-4885-03	1	Shroud-Fan, Top
7	110-8798-03	1	Lower Fan Shroud ASM
8	3234-1	4	Screw-HHF
9	92-2379	2	Clamp-Hose
10	104-4855-03	1	Radiator Frame ASM
11	2412-129	4	Clamp-Hose
13	3234-5	2	Screw-HHF
14	100-4899-03	1	Bracket-Reservoir
20	95-8702-03	1	Shield-Radiator, Lower
21	99-3497	1	Magnet
22	100-4869	1	Cooler-Oil
23	104-0454	1	Hose-Radiator, Upper
24	100-4809	1	Hose-Radiator, Lower
25	2412-34	2	Clamp-Hose
26	99-3644	1	Filter Head Tube ASM
27	100-4925	1	Fitting-Bulkhead
28	99-3646	2	Hose-Cooler, Oil
33	99-7435	1	Relay-Power

Ref	Part No.	Qty.	Description
34	32105-13	1	Screw-HWH
35	109-0274	1	Hose-Fuel
37	100-4924	1	Tube ASM
38	32128-17	1	Nut-Lock, Flange
41	93-6681	1	Decal-Warning, Fan
42	32128-20	2	Nut-HF
43	340-126	1	Nut-Bulkhead
44	100-4866	1	Grommet
45	100-4858	2	Form-Wire
46	100-4859	2	Bracket-Cooler, Keeper
47	100-4860	2	Bracket-Clamp
48	322-17	2	Screw-HH
49	3296-47	2	Nut-Lock, NI
50	104-9459	2	Seal-Foam



Hood Assembly

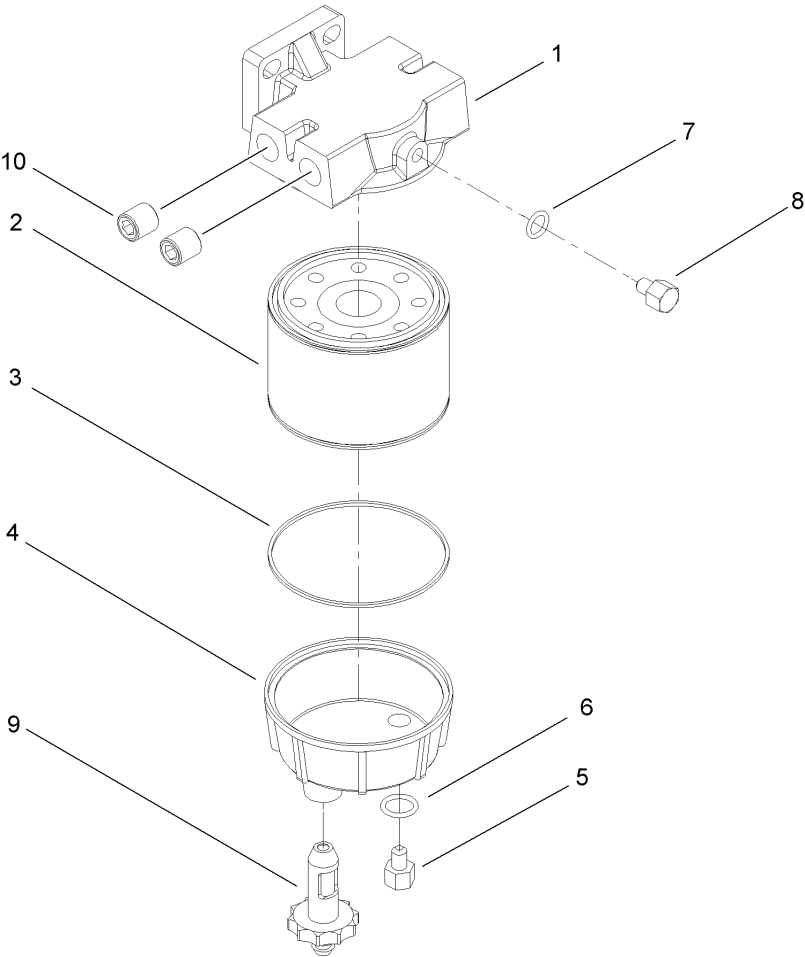
Ref	Part No.	Qty.	Description				
1	3234-4	6	Screw-HHF				
2	100-4932	1	Trim-Seal				
3	3296-42	6	Nut-Lock, NI				
4	104-4853-03	1	Hood Screen ASM				
5	100-4855	1	Hood				
①5:5	106-8115	1	Heat Tape Repair Kit				
6	95-8728	2	Bracket-Pivot, Hood				
7	3256-24	8	Washer-Flat				
8	59-9740	2	Flex Draw Latch ASM				
8:2	249-40	1	Keeper				
9	98-7310	4	Rivet				
10	3290-55	4	Rivet-Pop				
11	3269-10	4	Washer-Back				
12	108-9007	2	Decal-Hood				
13	323-6	4	Screw-HH				
15	3290-467	1	Pin-Hair				
16	107-7800	1	Decal-Service				
18	3269-21	2	Rivet-Pop				
19	99-3568	1	Bracket-Lock, Ce				
20	321-9	1	Screw-HH				
21	3256-22	1	Washer-Flat				
22	3296-42	1	Nut-Lock, NI				
23	106-6754	1	Decal-Danger				
25	66-6140	2	Decal				



Fuel Tank Assembly

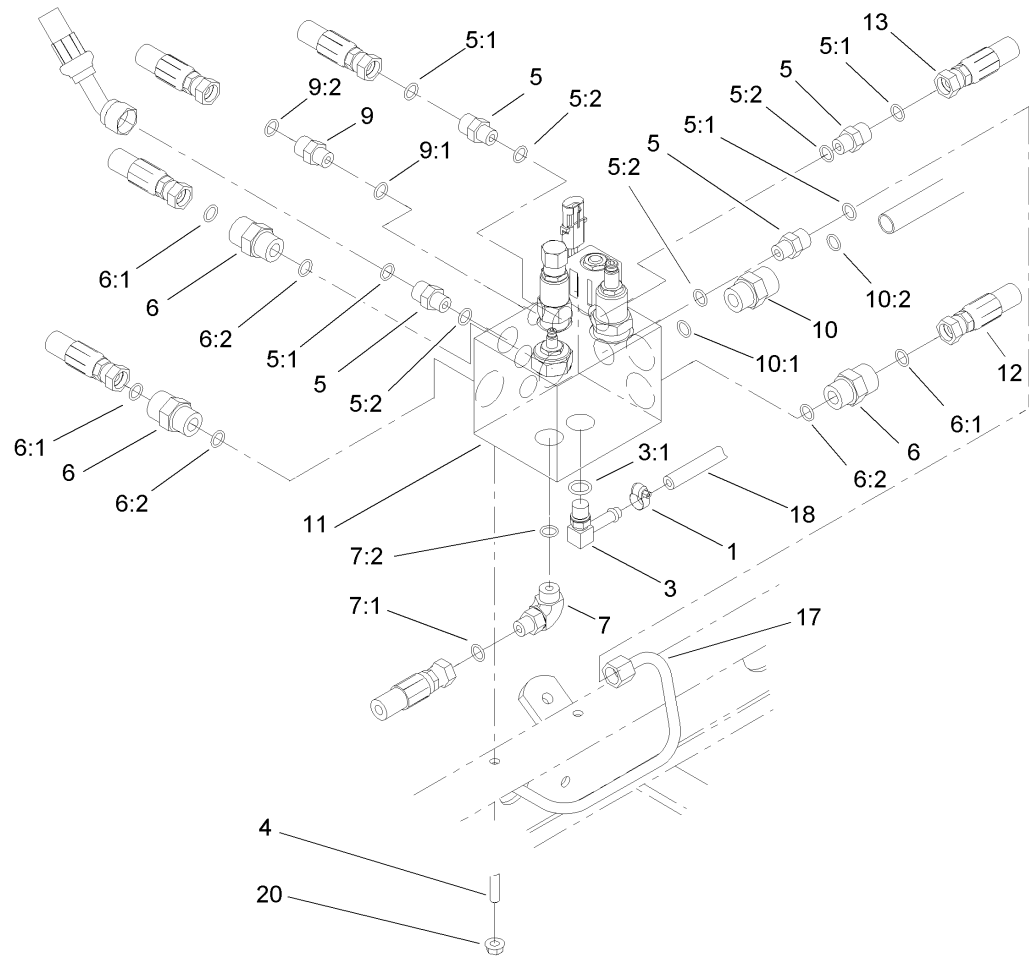
Ref	Part No.	Qty.	Description
1	321-2	2	Screw-HH
2	105-7865	1	Tank-Fuel
2:1	95-8971	1	Guage-Fuel
2:2	95-8972	1	Grommet
3	95-8881	1	Strap-Line, Fuel
4	32144-10	4	Screw-HWH
5	95-4193	1	Diesel Fuel Cap ASM
6	95-8968-03	1	Support-Tank, Fuel
9	46-6550	1	Fitting-Elbow, 90 DEG
10	66-8121	1	Standpipe
11	2412-148	1	Clamp-R
12	304-73	1	Connector-Hose
13	321-9	2	Screw-HH
14	32128-33	2	Nut-HF
16	3256-22	2	Washer-Flat
17	354-20	1	Fitting-Tee
18	354-21	1	Fitting-Barb
19	354-22	1	Fitting-Barb
20	46-6560	2	Bushing
21	87-4710	2	Spacer-Brake, Parking
22	2412-108	13	Clamp-Worm
23	98-7612	1	Filter-Fuel
24	98-9305	1	Water / Fuel Filter ASM
25	353-783	2	Fitting-Straight

Ref	Part No.	Qty.	Description
26	3234-17	2	Screw-HHF
27	32128-44	2	Nut
32	110-6187	1	Hose-Fuel
33	110-8751	1	Hose-Fuel
34	110-5701	1	Hose-Fuel
35	110-6186	1	Hose-Fuel
36	110-4110	1	Hose-Fuel
37	110-8752	1	Hose-Fuel
38	104-4857	1	Hose-Fuel
39	2412-73	1	Clamp-R
40	107-0122	1	Pump-Fuel, Electric
44	105-4094	1	Hose-Formed
45	2412-129	2	Clamp-Hose
46	110-8754	1	Trim



Water and Fuel Filter Assembly No. 98-9305

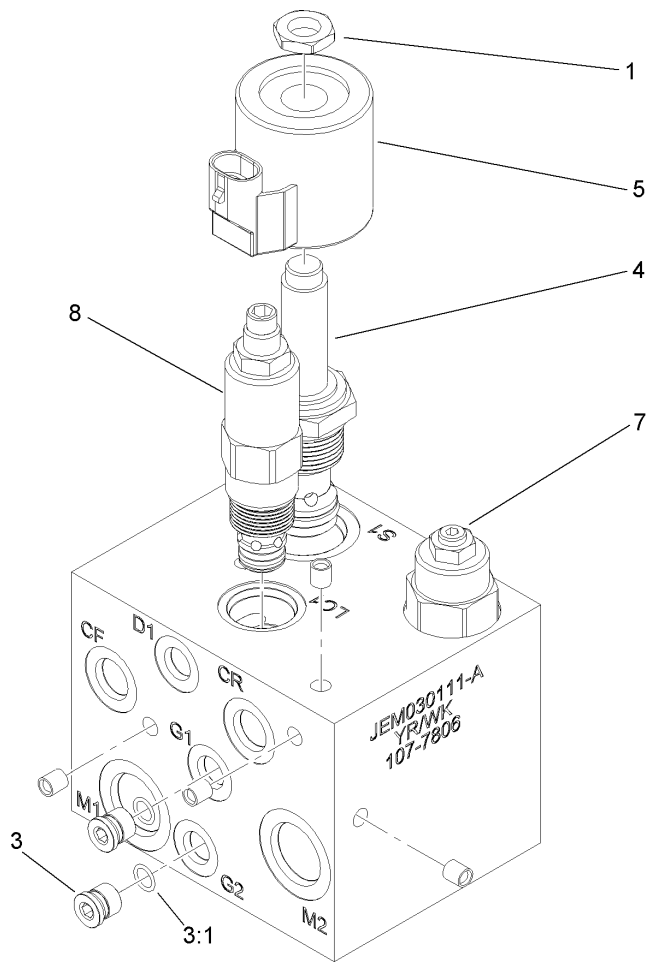
Ref	Part No.	Qty.	Description				
1	98-9772	1	Head-Filter				
2	98-9764	1	Element				
3	98-9774	1	O-Ring				
4	98-9775	1	Base-Filter				
5	98-9773	1	Plug-Base, Filter				
6	237-42	1	O-Ring				
7	237-78	1	O-Ring				
8	98-9776	1	Plug-Head, Filter				
9	98-9777	1	Drain Valve ASM				
10	285-22	2	Plug-Pipe				



Manifold Block Installation Assembly

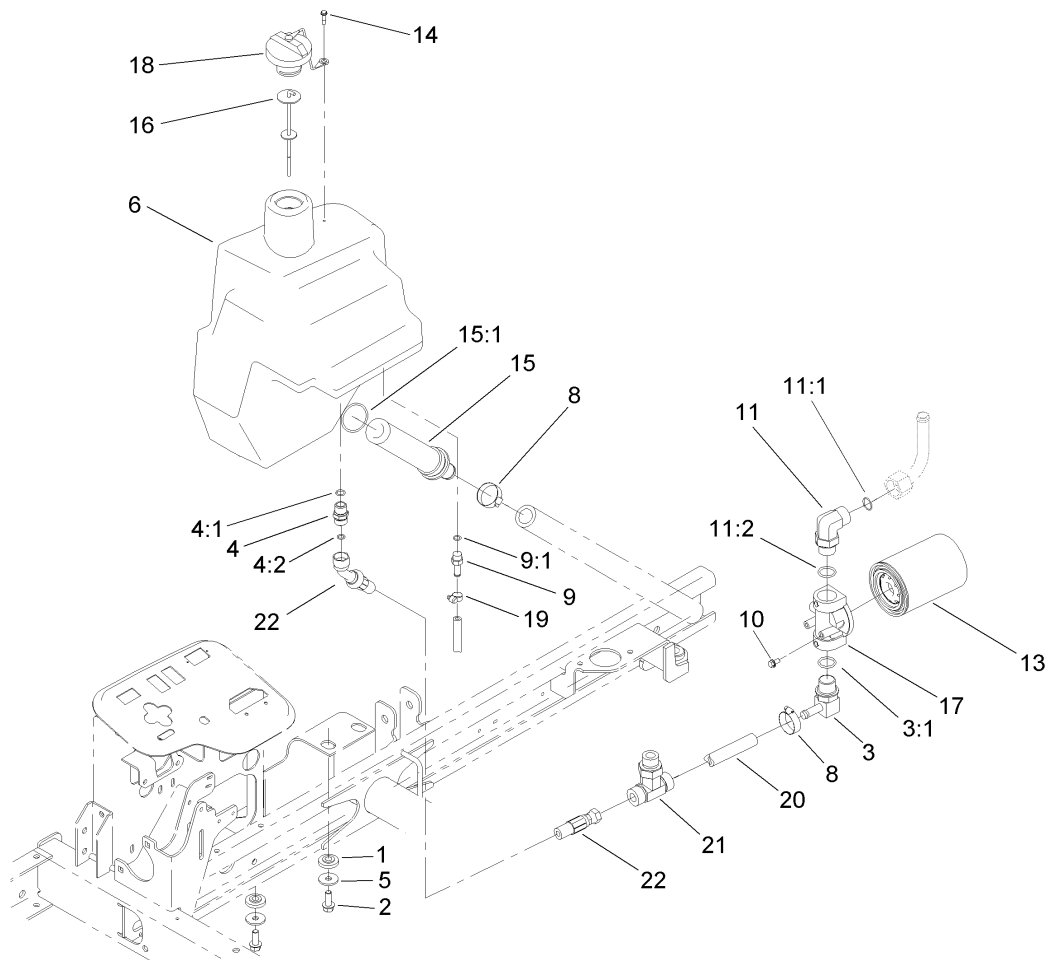
Ref	Part No.	Qty.	Description
1	2412-36	1	Clamp-Hose
3	100-4887	1	Fitting-Barb
3:1	237-42	1	O-Ring
4	104-0430	2	Stud
5	340-2	4	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-7	3	Adapter
6:1	237-65	1	O-Ring
6:2	237-80	1	O-Ring
7	340-77	1	Fitting-HYD, 90 DEG
7:1	237-22	1	O-Ring
7:2	237-42	1	O-Ring
9	340-88	1	Adapter
9:1	237-22	1	O-Ring
9:2	237-78	1	O-Ring
10	340-66	1	Fitting-HYD
10:1	237-80	1	O-Ring
10:2	237-58	1	O-Ring
11	107-7806	1	Manifold Block ASM
12	104-0488	1	Hose ASM
13	92-7595	1	Hose ASM
17	108-9005	1	Tube ASM
18	80-7342	1	Hose ASM

Ref	Part No.	Qty.	Description
20	32128-20	2	Nut-HF



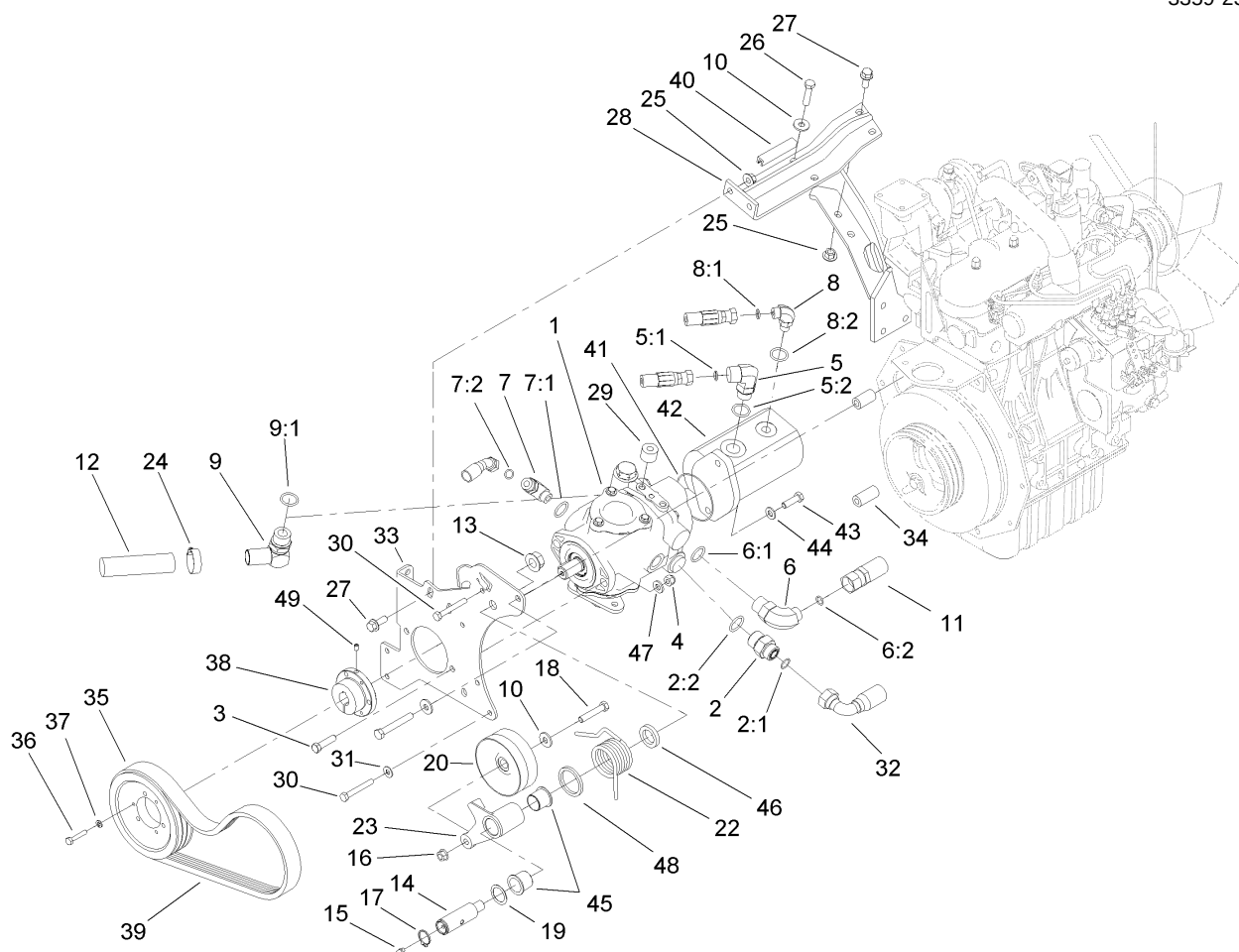
Manifold Block Assembly No. 107-7806

Ref	Part No.	Qty.	Description				
1	107-7812	1	Nut-Solenoid				
❶2	107-7815	1	Seal Kit				
3	353-512	2	Plug				
3:1	237-78	1	O-Ring				
4	107-7809	1	Cartridge ASM				
5	107-7811	1	Solenoid				
❶6	107-7813	1	Seal Kit				
7	107-7810	1	Valve-Braking				
8	107-7808	1	Cartridge-Logic				
❶8:1	107-7813	1	Seal Kit				
❶9	107-7814	1	Seal Kit				



Hydraulic Tank Assembly

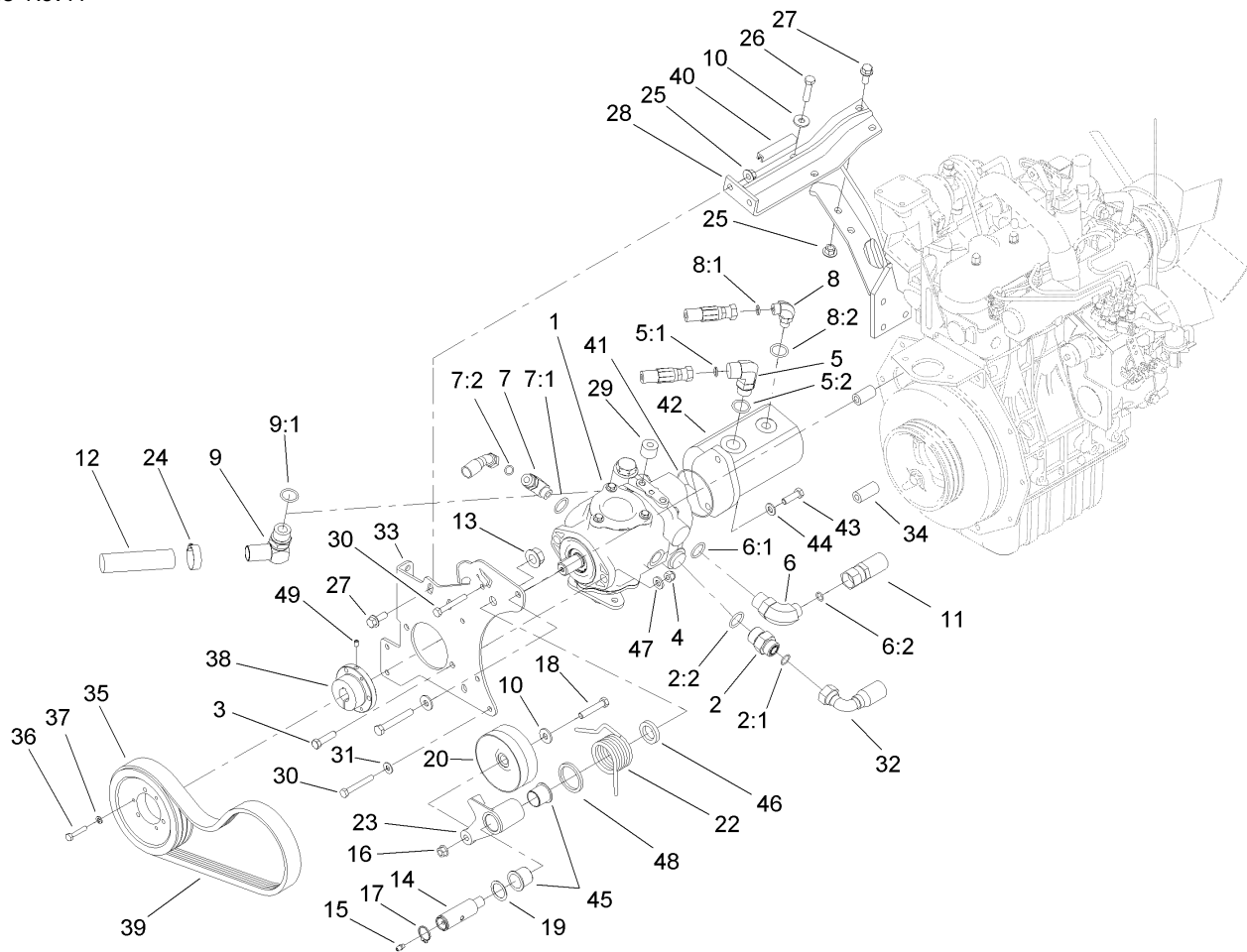
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	240-11	4	Bushing-Flange	20	104-0486	1	Hose ASM
2	3234-11	4	Screw-HHF	21	104-4836	1	Fitting-Tee
3	353-987	1	Fitting-HYD, 90	22	104-0487	1	Hose ASM
3:1	237-81	1	O-Ring				
4	100-4890	1	Fitting-Check				
4:1	237-79	1	O-Ring				
4:2	237-30	1	O-Ring				
5	63-8410	4	Washer				
6	104-4840	1	Tank-HYD				
8	2412-34	2	Clamp-Hose				
9	353-979	1	Fitting-Straight				
9:1	237-42	1	O-Ring				
10	3234-13	2	Screw-HHF				
11	340-142	1	Fitting-HYD, 90 DEG				
11:1	237-58	1	O-Ring				
11:2	237-81	1	O-Ring				
13	86-3010	1	Filter-Oil				
14	57-5420	1	Screw-Shoulder				
15	104-7546	1	Strainer-Tank				
15:1	340-136	1	O-Ring				
16	75-3710	1	Dipstick				
17	92-5821	1	Filter Head ASM				
18	93-7160	1	Cap-Oil, HYD				
19	2412-36	1	Clamp-Hose				



Hydrostat Assembly

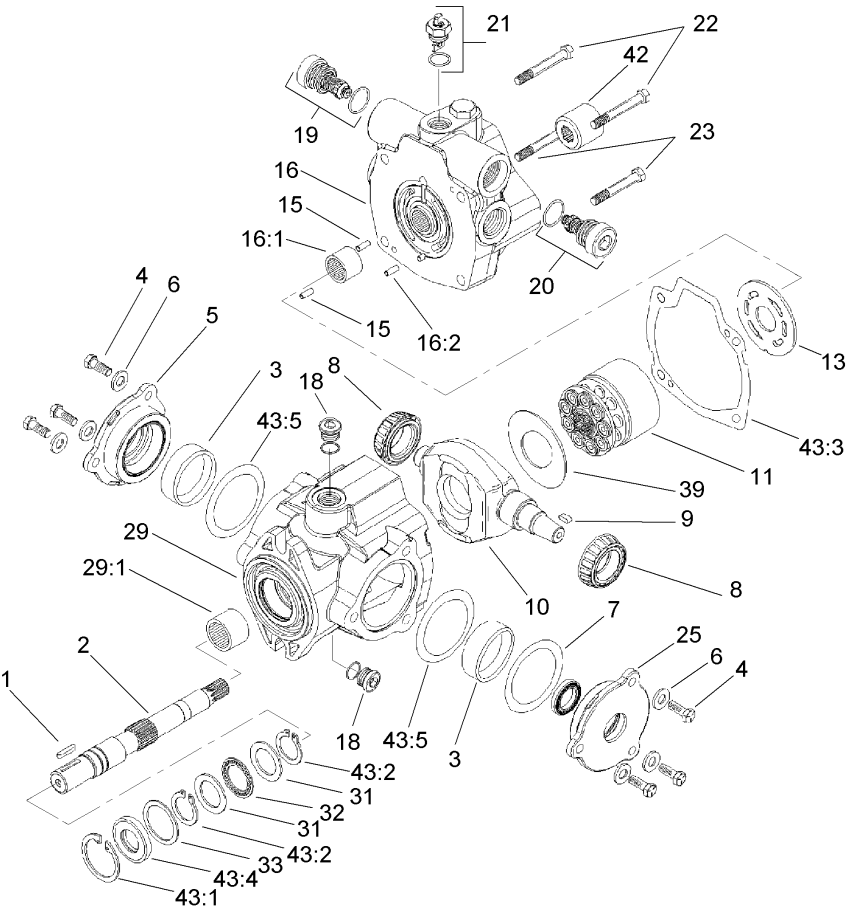
Ref	Part No.	Qty.	Description
1	104-4890	1	Pump-Piston
2	340-8	1	Adapter
2:1	237-65	1	O-Ring
2:2	237-81	1	O-Ring
3	323-8	2	Screw-HH
4	3296-39	2	Nut-Lock, NI
5	340-17	1	Fitting-HYD, 90 DEG
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-139	1	Fitting-HYD, 90 DEG
6:1	237-81	1	O-Ring
6:2	237-65	1	O-Ring
7	340-18	1	Fitting-HYD, 90 DEG
7:1	237-79	1	O-Ring
7:2	237-22	1	O-Ring
8	340-77	1	Fitting-HYD, 90 DEG
8:1	237-22	1	O-Ring
8:2	237-42	1	O-Ring
9	95-3502	1	Fitting-Elbow
9:1	237-81	1	O-Ring
10	80-6990	3	Washer-Hardened
11	108-9008	1	Hose ASM
12	104-5486	1	Hose
13	32128-54	1	Nut-HF

Ref	Part No.	Qty.	Description
14	99-3624	1	Shaft-Pivot, Idler
15	302-5	1	Fitting-Grease
16	32128-21	1	Nut-HF
17	32151-36	1	Ring-Retaining
18	323-10	1	Screw-HH
19	74-1810	1	Washer
20	107-7834	1	Pulley-Idler
22	100-4844	1	Spring-Torsion
23	99-3623-03	1	Arm-Idler
24	2412-34	1	Clamp-Hose
25	32128-43	4	Nut-Flange
26	323-19	2	Screw-HH
27	3234-11	4	Screw-HHF
28	99-3436-03	1	Support-Pump
29	99-3440	2	Spacer
30	33114-060	4	Screw-HH
31	87-8640	3	Washer-Flat
32	105-1214	1	Hose ASM
33	95-8933-03	1	Plate-Mount, Pump
34	95-8941	4	Spacer-Mount, Pump
35	99-3620	1	Pulley-3V, Pump
36	321-13	3	Screw-HH
37	3253-3	3	Washer-Lock
38	100-4813	1	Bushing-Lock, Taper



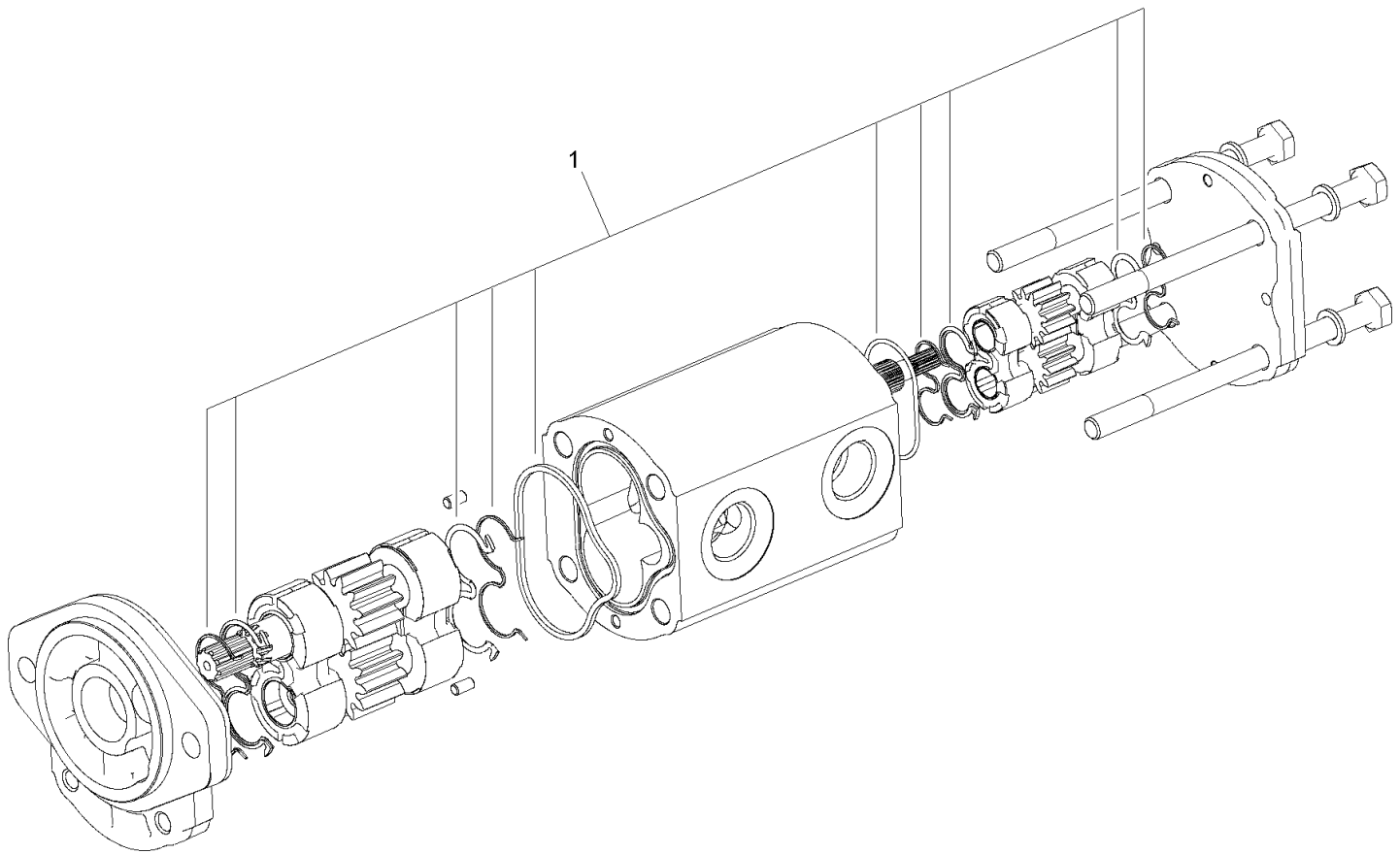
Hydrostat Assembly (continued)

Ref	Part No.	Qty.	Description
39	99-3619	1	Belt-3V
40	70-2041	1	Trim
41	353-949	1	O-Ring
42	108-9036	1	Pump-Gear, HYD
43	323-7	2	Screw-HH
44	3256-24	2	Washer-Flat
45	99-3631	2	Bushing-Flange
46	99-3625	1	Spacer-Arm, Idler
47	100-4852	2	Washer-Hardened
48	72-4170	1	Washer
49	3245-41	1	Screw-HSH



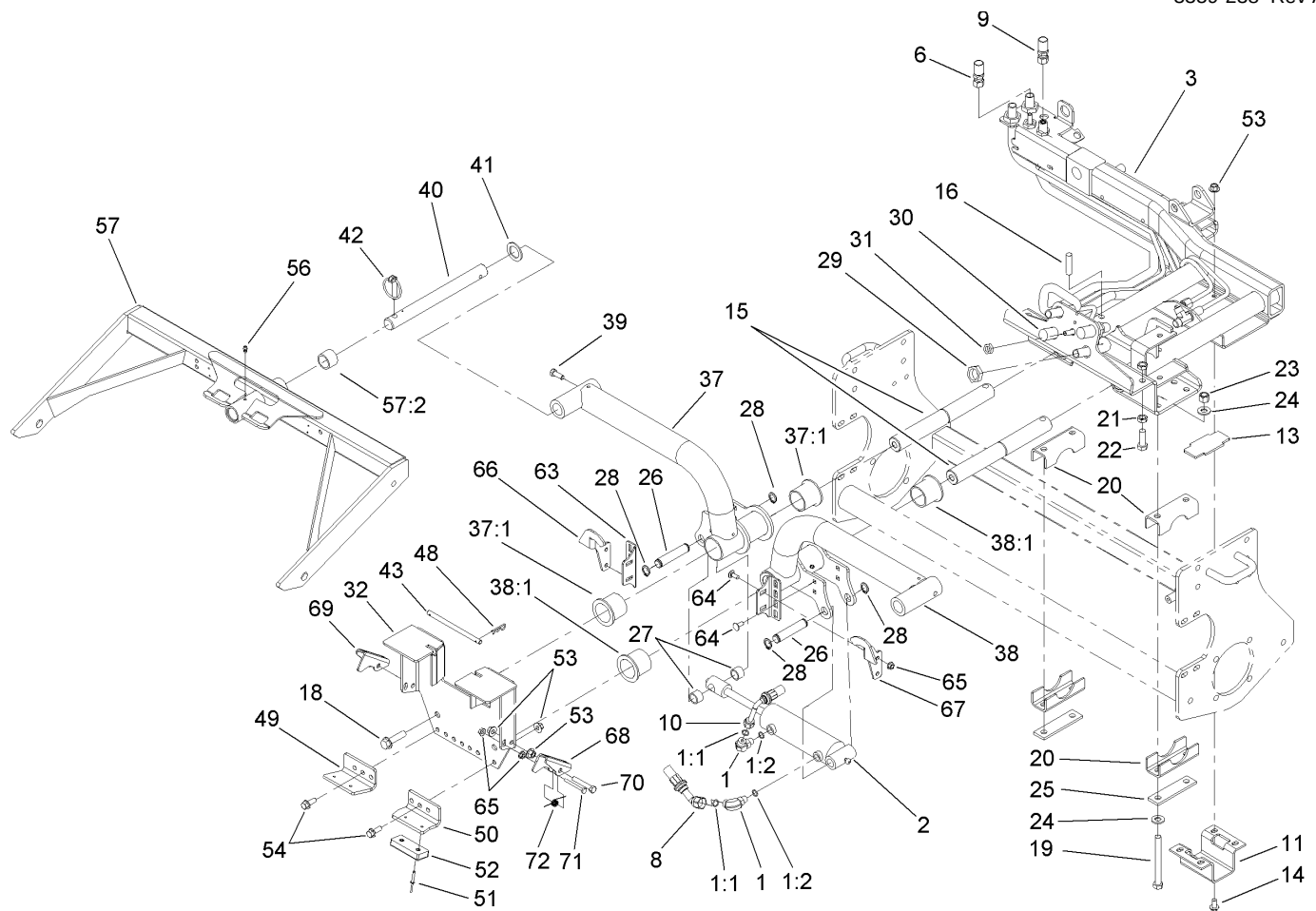
Piston Pump Assembly No. 104-4890

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	94-3645	1	Key	29	100-3176	1	Housing ASM
2	94-6359	1	Shaft-Drive	29:1	94-6363	1	Bearing
3	104-4046	2	Bearing-Cup	31	252-71	2	Washer-Thrust
4	98-4640	6	Screw-Cap	32	252-66	1	Bearing-Thrust
5	98-4644	1	Plate-Cover	33	33-3720	1	Washer
6	105-9762	6	Washer	39	98-4635	1	Insert-Plate, Cam
7	100-3182	2	Shim Kit	42	74-9040	1	Coupler
8	98-4639	2	Bearing-Cone	43	104-4868	1	Seal Repair Kit
9	94-3646	1	Key	43:1	32151-13	1	Ring-Retaining
10	104-4888	1	Swashplate	43:2	32151-29	1	Ring-Retaining
11	76-6070	1	Rotating Kit	43:3	33-4930	1	Gasket-Housing
13	104-0429	1	Plate-Cam	43:4	104-4861	1	Seal-Shaft
15	76-6150	2	Pin-Dowel	43:5	100-3179	1	O-Ring
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	Seal-Dust				
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				



Hydraulic Gear Pump Assembly No. 108-9036

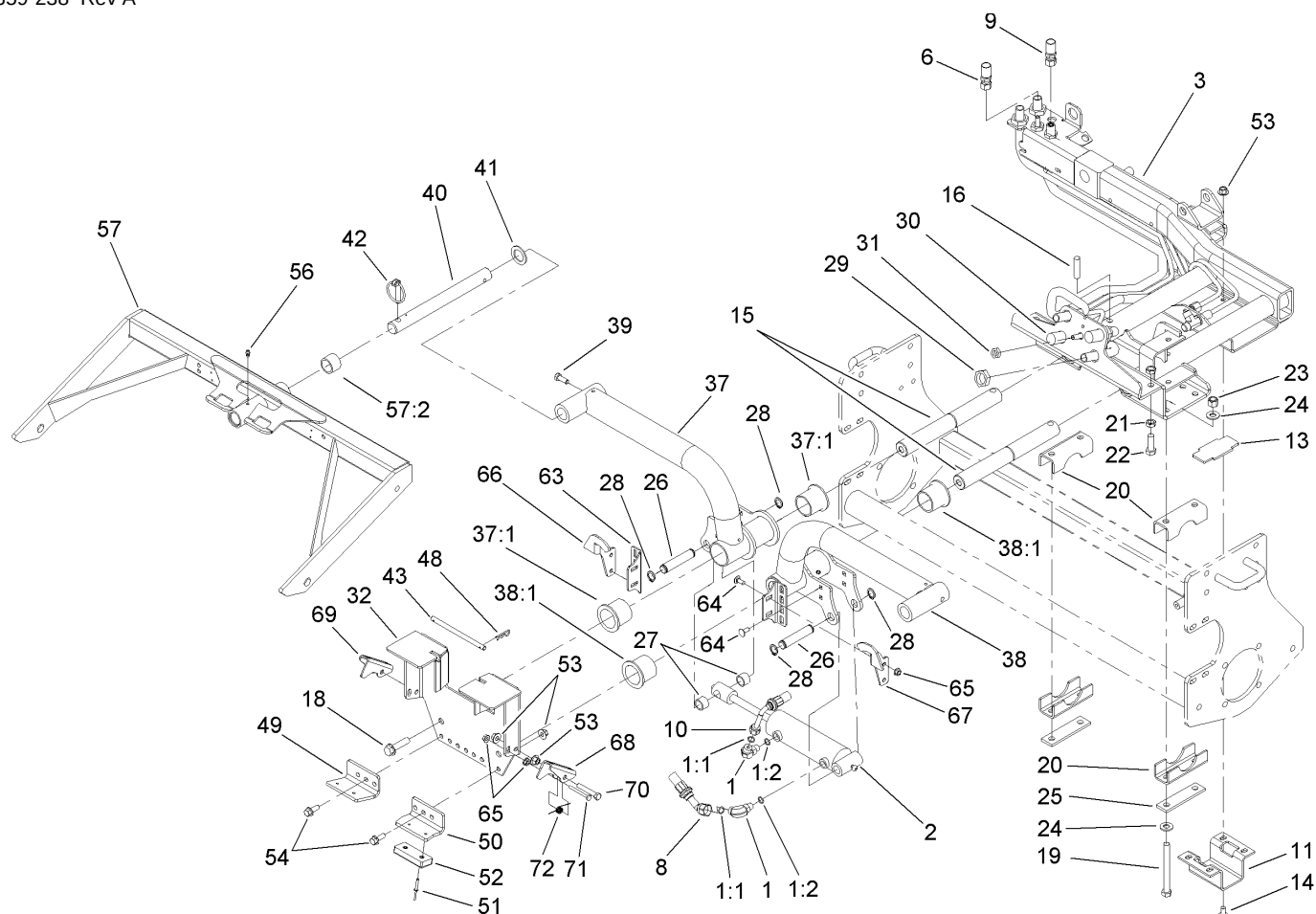
Ref	Part No.	Qty.	Description
1	110-8755	1	Seal Kit



Carrier Assembly

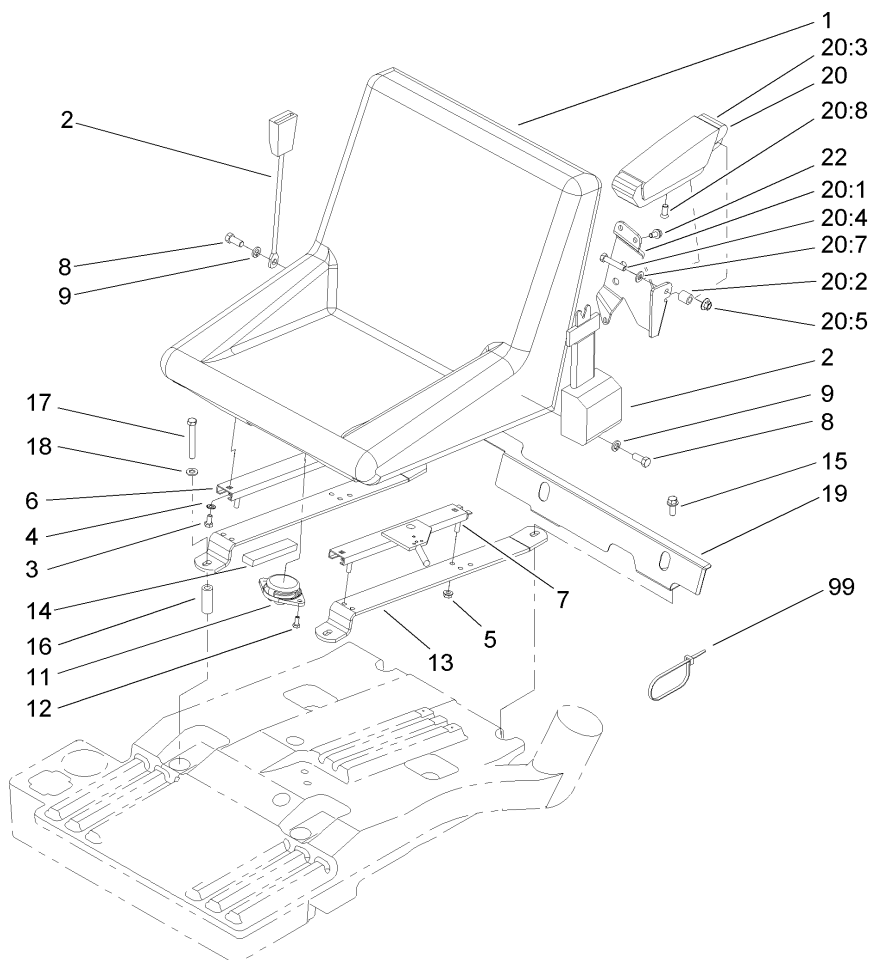
Ref	Part No.	Qty.	Description
1	340-77	2	Fitting-HYD, 90 DEG
1:1	237-22	1	O-Ring
1:2	237-42	1	O-Ring
2	108-9033	1	Cylinder-HYD
3	100-4939-03	1	Sidewinder Carrier ASM
6	99-3575	1	Hose ASM
8	104-0405	1	Hose ASM
9	108-9013	1	Hose ASM
10	104-0406	1	Hose ASM
11	95-8904-03	1	Bracket-Clamp
13	95-8538	1	Slide-Plastic
14	3234-1	4	Screw-HHF
15	95-8531	2	Shaft-Pivot, Liftarm
16	32121-122	2	Pin-Roll
18	3234-27	2	Screw-Flange
19	325-19	4	Screw-HH
20	95-8884	4	Clamp
21	3218-5	4	Nut-Jam
22	325-6	2	Screw-HH
23	3296-23	4	Nut-Lock, NI
24	87-7270	8	Washer-Thrust
25	99-3373	2	Bar-Support, Slide
26	95-8575	2	Pin
27	75-9590	2	Spacer-Cylinder

Ref	Part No.	Qty.	Description
28	32120-93	4	Ring-Retaining, EXT
29	340-74	4	Locknut-Bulkhead
30	99-3640	1	Tube ASM
31	340-78	1	Nut-Lock, Bulkhead
32	104-4820-03	1	Bracket-Stop, Carrier
37	95-8553	1	RH Short Lift Arm ASM
37:1	69-6470	2	Bushing-Caster
38	95-8554	1	LH Short Lift Arm ASM
38:1	69-6470	2	Bushing-Caster
39	323-6	2	Screw-HH
40	95-8979	2	Shaft
41	3-6781	2	Washer-Thrust
42	283-71	2	Pin-Lynch
43	104-0472	1	Rod
48	3290-467	2	Pin-Hair
49	110-8793-03	1	Stop-Deck, RH
50	110-8794-03	1	Stop-Deck, LH
51	3269-11	4	Rivet
52	86-5350	2	Bumper-Rubber
53	32128-43	12	Nut-Flange
54	3234-11	4	Screw-HHF
56	302-5	2	Fitting-Grease
57	110-8787	2	Front Carrier Frame ASM
57:2	108-4000	2	Bushing



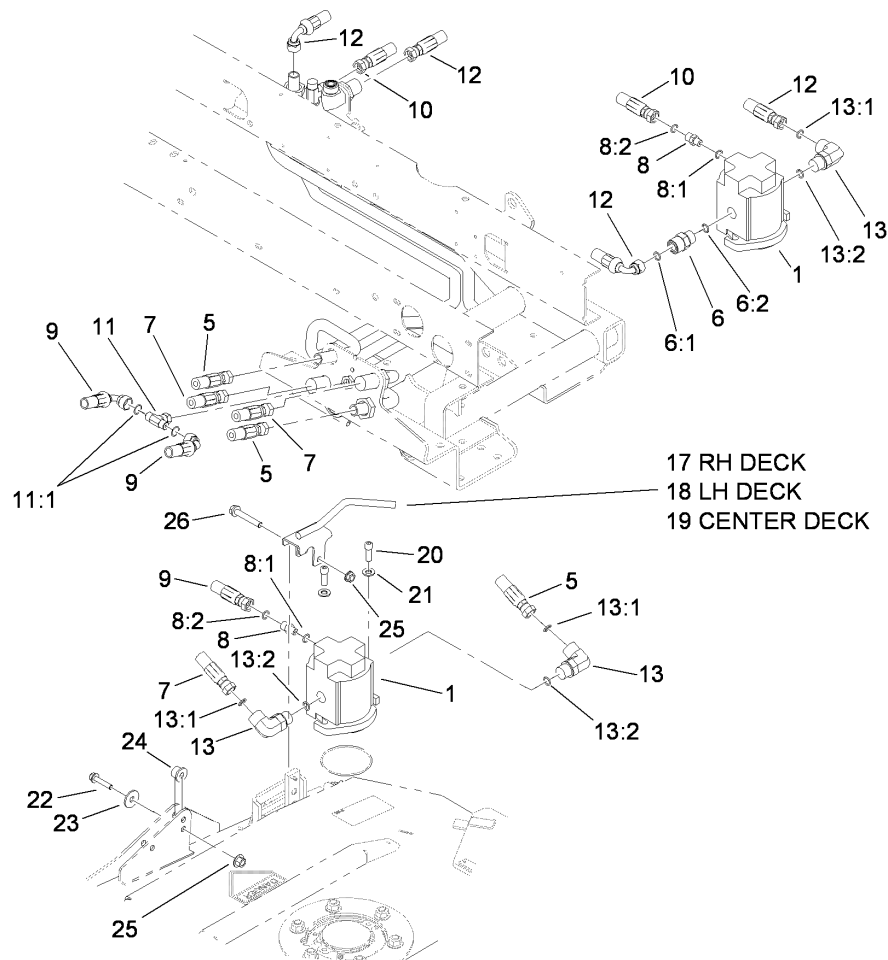
Carrier Assembly (continued)

Ref	Part No.	Qty.	Description
63	104-4828-03	2	Bracket-Actuator
64	3230-23	8	Screw-CARR
65	32128-44	12	Nut
66	104-4826-03	1	Actuator-RH
67	104-4827-03	1	Actuator-LH
68	104-4819-03	1	Bracket-Pivot, LH
69	104-4825-03	1	Bracket-Pivot, RH
70	323-11	2	Screw-HH
71	322-11	2	Screw-HH
72	104-4821	2	Spring-Torsion



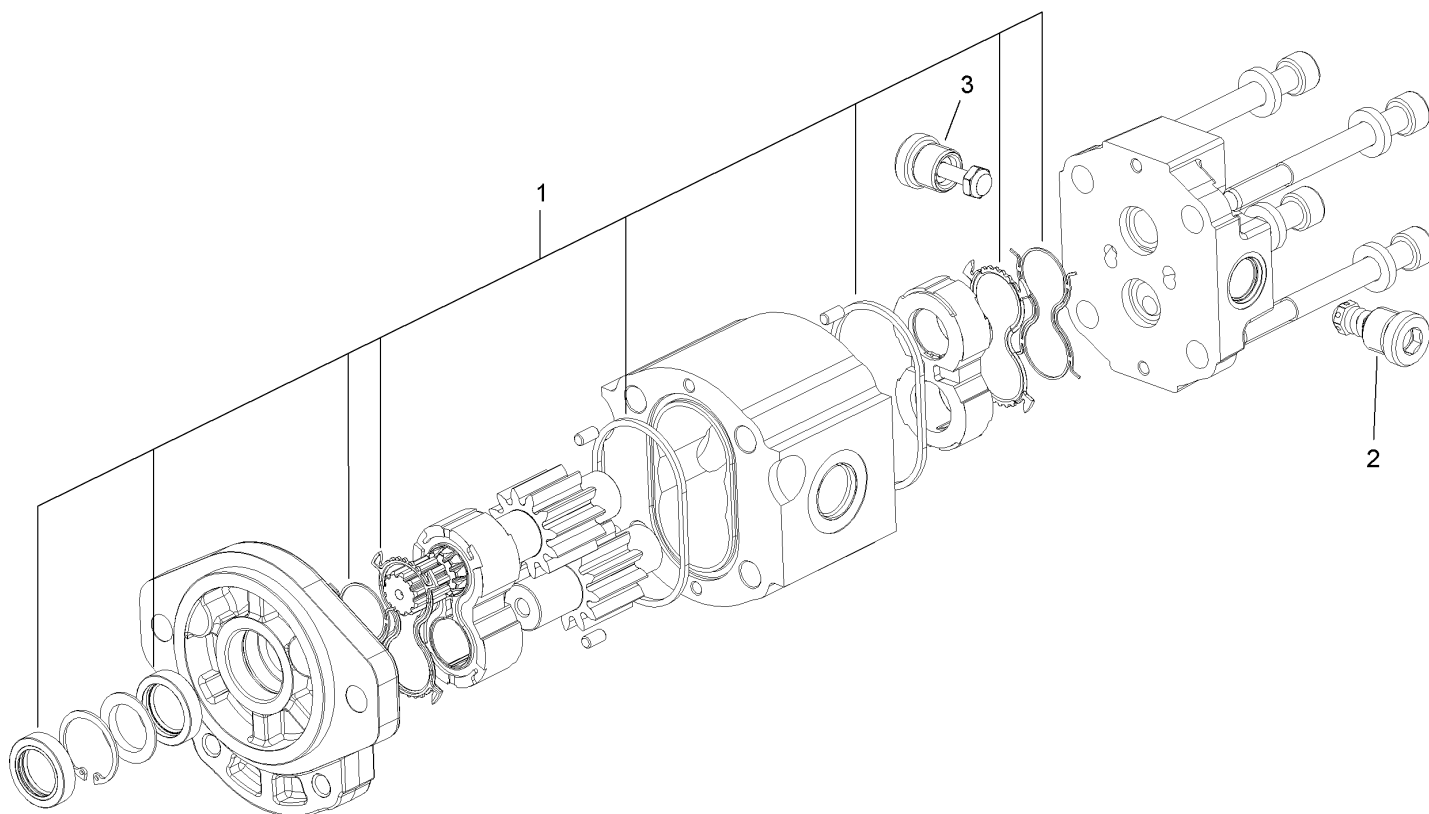
Seat Mounting Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-4620	1	Seat	20:7	3256-24	1	Washer-Flat
2	100-4928	1	Belt-Seat	20:8	92-7318	1	Screw
3	322-2	4	Screw-HH	21	92-7306	1	RH Armrest ASM
4	3255-8	4	Washer-Lock	21:1	69-0770	1	Bracket-Arm, RH
5	104-8300	4	Nut-Flange, NI	21:2	92-7301	1	Spacer
6	92-8990	1	Adjuster-Slave	21:3	69-1180	1	Armrest
7	92-8991	1	Adjuster ASM (W/Latch)	21:4	323-9	1	Screw-HH
8	3212-4	2	Screw-HH	21:5	32128-19	1	Nut-HF
9	3253-6	2	Washer-Lock	21:7	3256-24	1	Washer-Flat
11	92-6282	1	Switch-Seat	21:8	92-7318	1	Screw
12	32144-10	2	Screw-HWH	22	3234-14	6	Screw-HHF
13	104-0467-03	2	Strap-Support, Seat	99	3290-378	1	Tie-Cable
14	95-8896	2	Foam				
15	3234-11	2	Screw-HHF				
16	104-0466	2	Spacer-Tube				
17	323-14	2	Screw-HH				
18	3256-24	2	Washer-Flat				
19	104-4833-03	1	Shield-Heat				
20	92-7307	1	LH Armrest ASM				
20:1	69-0760	1	Bracket-Arm, LH				
20:2	92-7301	1	Spacer				
20:3	69-1180	1	Armrest				
20:4	323-9	1	Screw-HH				
20:5	32128-19	1	Nut-HF				



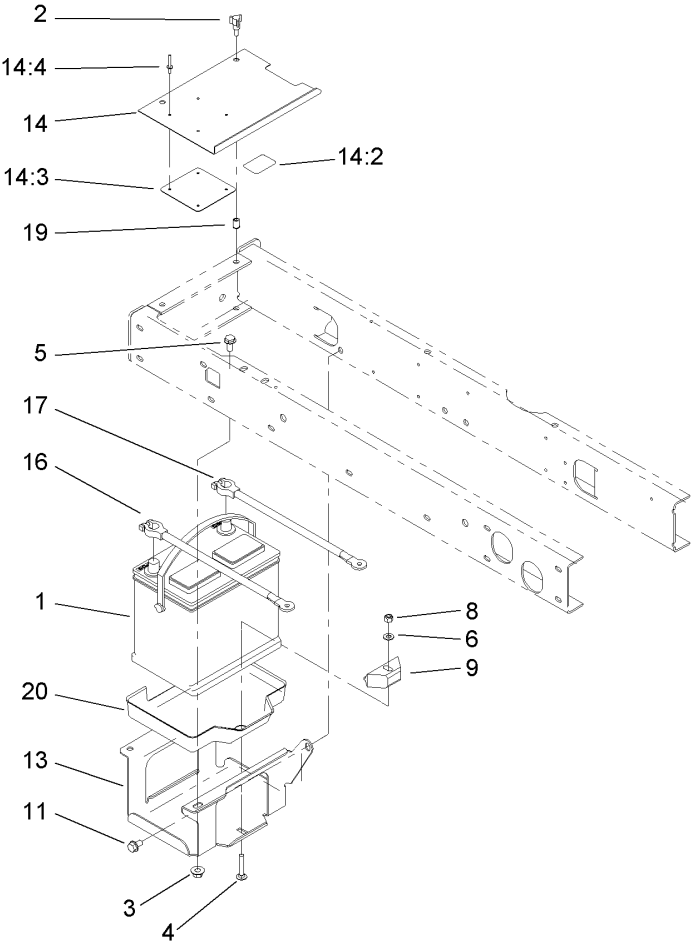
Rotary Motor Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	105-9872	3	Motor-HYD	24	95-8803	6	Bushing-Flange
5	105-1216	2	Hose ASM	25	104-8301	10	Nut-Flange, NI
6	340-7	1	Adapter	26	323-11	4	Screw-HH
6:1	237-65	1	O-Ring				
6:2	237-80	1	O-Ring				
7	105-1215	2	Hose ASM				
8	340-92	3	Fitting-HYD, Straight				
8:1	237-78	1	O-Ring				
8:2	237-21	1	O-Ring				
9	104-1080	2	Hose ASM				
10	100-4876	1	Hose ASM				
11	99-3477	1	Fitting-Tee				
11:1	237-42	2	O-Ring				
12	100-4880	2	Hose ASM				
13	340-17	5	Fitting-HYD, 90 DEG				
13:1	237-65	1	O-Ring				
13:2	237-80	1	O-Ring				
17	112-9901-03	1	RH Foot Guard ASM				
18	112-9902-03	1	LH Foot Guard ASM				
19	112-9900-03	1	Foot Guard ASM				
20	3274-7	6	Screw-HSH				
21	3256-24	6	Washer-Flat				
22	3234-18	6	Screw-HHF				
23	93-8806	6	Washer-Hardened				



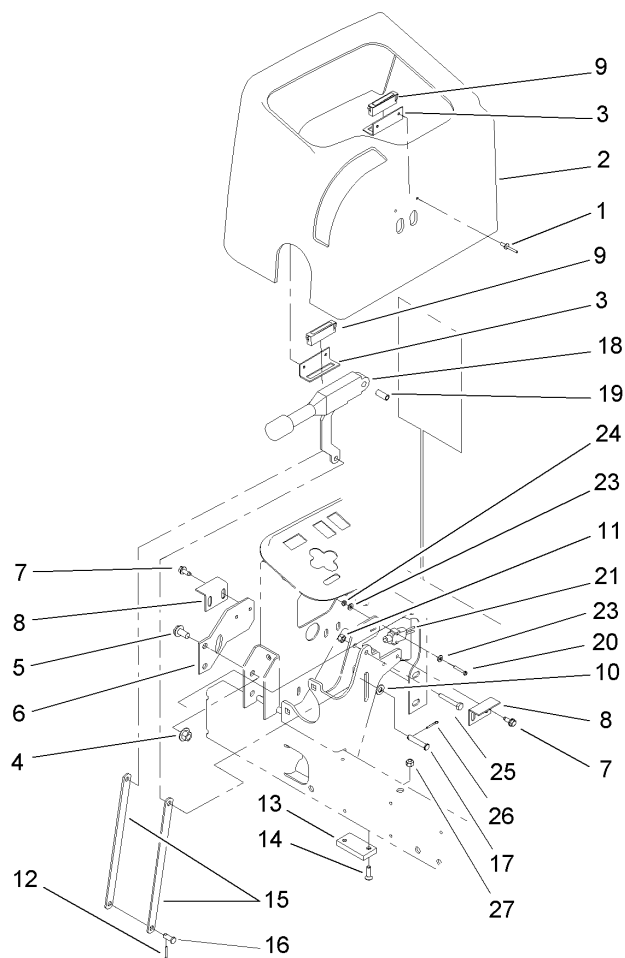
Hydraulic Motor Assembly No. 105-9872

Ref	Part No.	Qty.	Description
1	107-7819	1	Seal Kit
2	107-7820	1	Valve-Relief
3	107-7821	1	Valve-Anticavitation



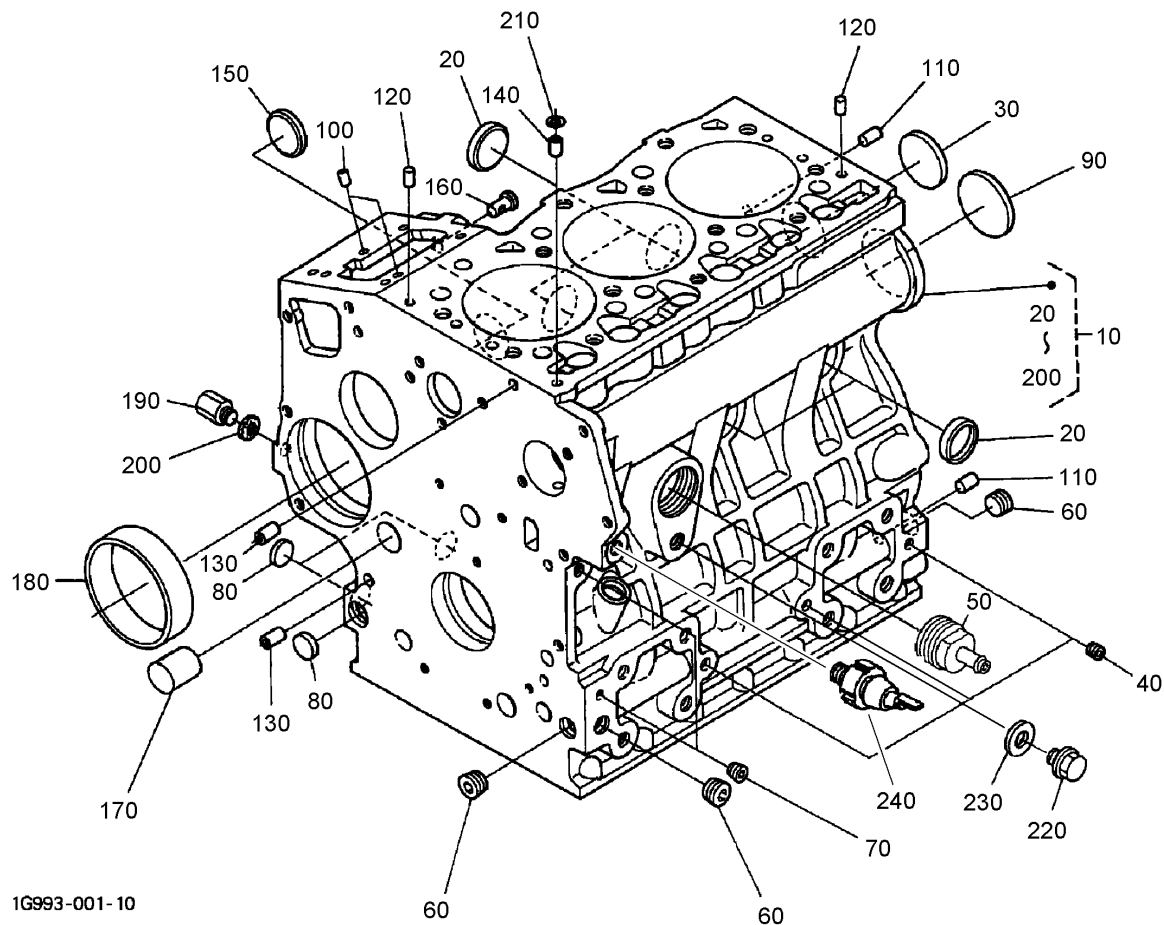
Battery Assembly

Ref	Part No.	Qty.	Description				
1	104-9979	1	Battery				
2	233-70	2	Knob-Star, Three				
3	32128-43	3	Nut-Flange				
4	3230-6	1	Screw-CARR				
5	3234-1	3	Screw-HHF				
6	3256-23	1	Washer-Flat				
8	3296-29	1	Nut-Lock, NI				
9	66-2490	1	Retainer-Battery				
11	32144-15	1	Screw-HHFTF				
13	95-8796-03	1	Support-Battery				
14	99-3602	1	Battery Cover ASM				
14:2	93-7276	1	Decal-Danger				
14:3	87-7620	1	Shield-Terminal, Battery				
14:4	3269-27	4	Rivet-Snap				
16	95-8853	1	Cable-Battery, Positive				
17	95-8854	1	Cable-Battery, Negative				
19	32148-6	2	Insert-Nut				
20	99-3513	1	Tray-Battery				



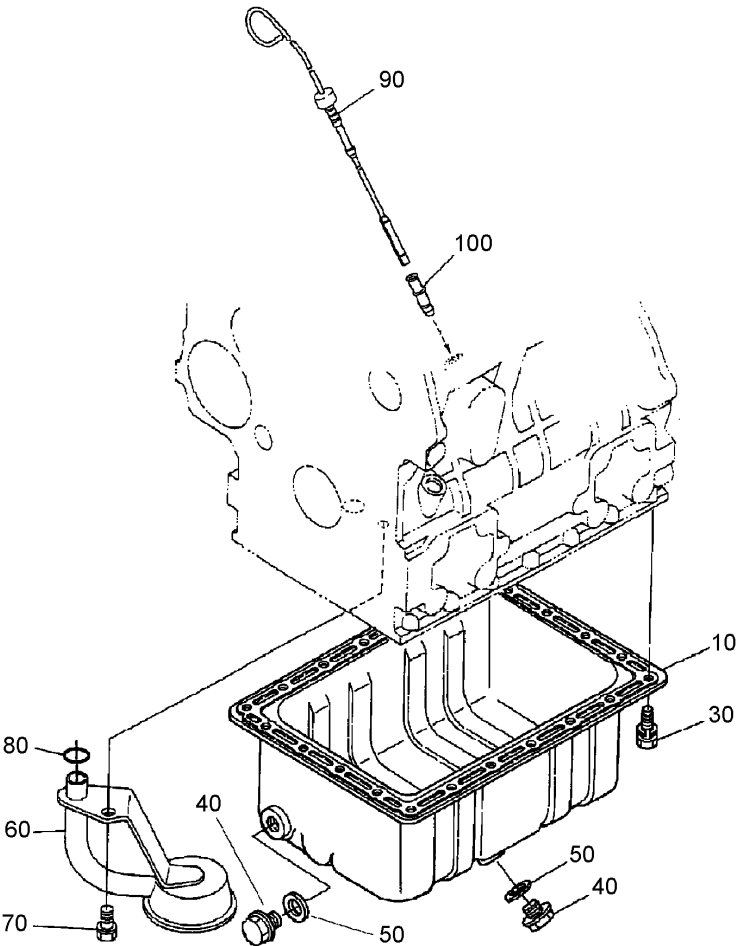
Parking Brake Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	3269-5	4	Rivet	26	3272-6	1	Pin-Cotter
2	95-8707	1	Cover-Dash	27	32128-32	2	Nut-HHF
3	95-8763	2	Bracket-Hold Down, Cover				
4	32128-43	2	Nut-Flange				
5	3234-1	2	Screw-HHF				
6	95-8764-03	1	Support-Magnet				
7	32144-10	4	Screw-HWH				
8	95-8765	2	Bracket-Strike, Magnet				
9	58-4250	2	Catch-Magnetic				
10	3256-23	1	Washer-Flat				
11	3296-42	1	Nut-Lock, NI				
12	3272-10	1	Pin-Cotter				
13	95-8684	1	Pad-Bumper				
14	3289-4	2	Screw-FH				
15	104-4628-03	2	Link-Brake, Parking				
16	283-62	1	Pin-Clevis				
17	94-3829	1	Pin-Clevis				
18	104-4817	1	Lever-Brake				
19	87-4710	1	Spacer-Brake, Parking				
20	32105-9	2	Screw				
21	95-8900	1	Switch				
23	3256-21	4	Washer-Flat				
24	3296-9	2	Nut-Lock				
25	321-10	1	Screw-HH				



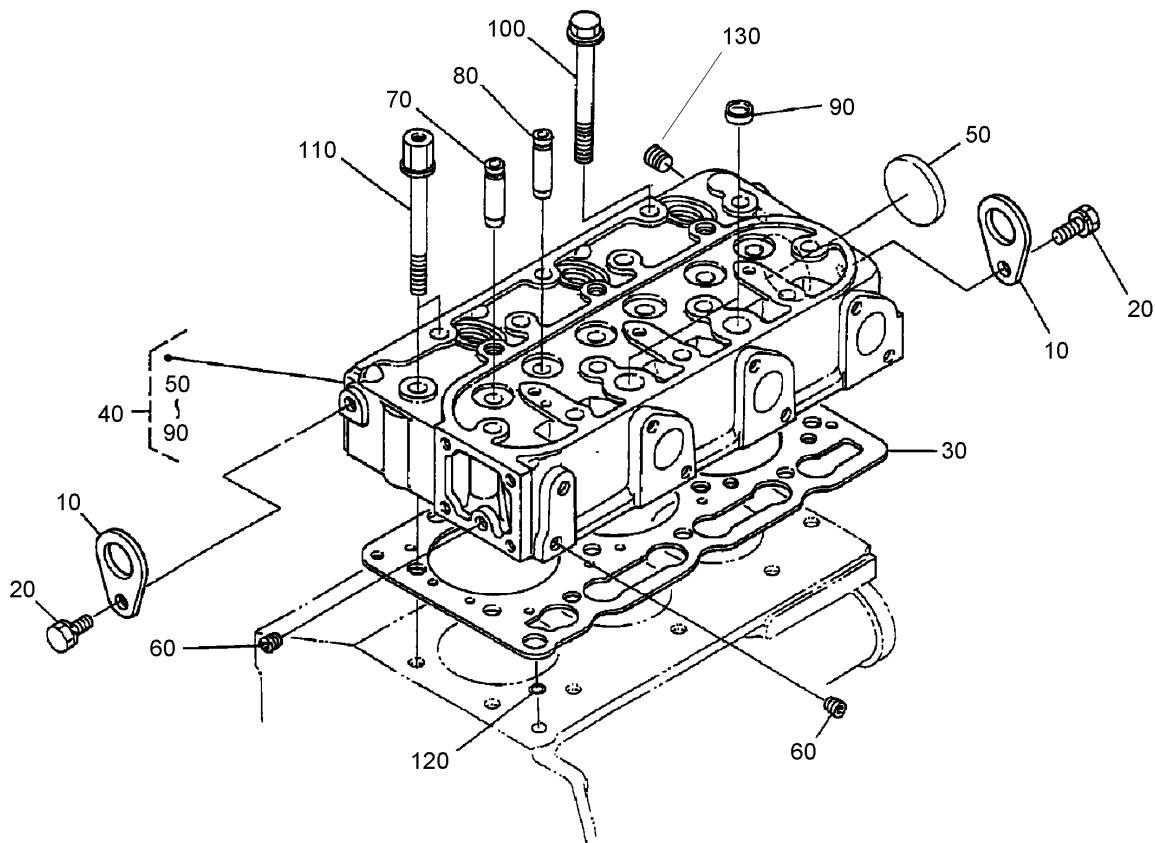
Crankcase Assembly

Ref	Part No.	Qty.	Description				
10	107-7824	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	98-7489	3	Plug				
90	98-9668	1	Plug				
100	98-9375	2	Pin-Straight				
110	98-9377	2	Pin-Straight				
120	105-3795	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				
210	98-7509	1	O-Ring				
220	99-3447	1	Plug				
230	106-7056	1	Gasket				
240	98-9416	1	Switch-Oil				



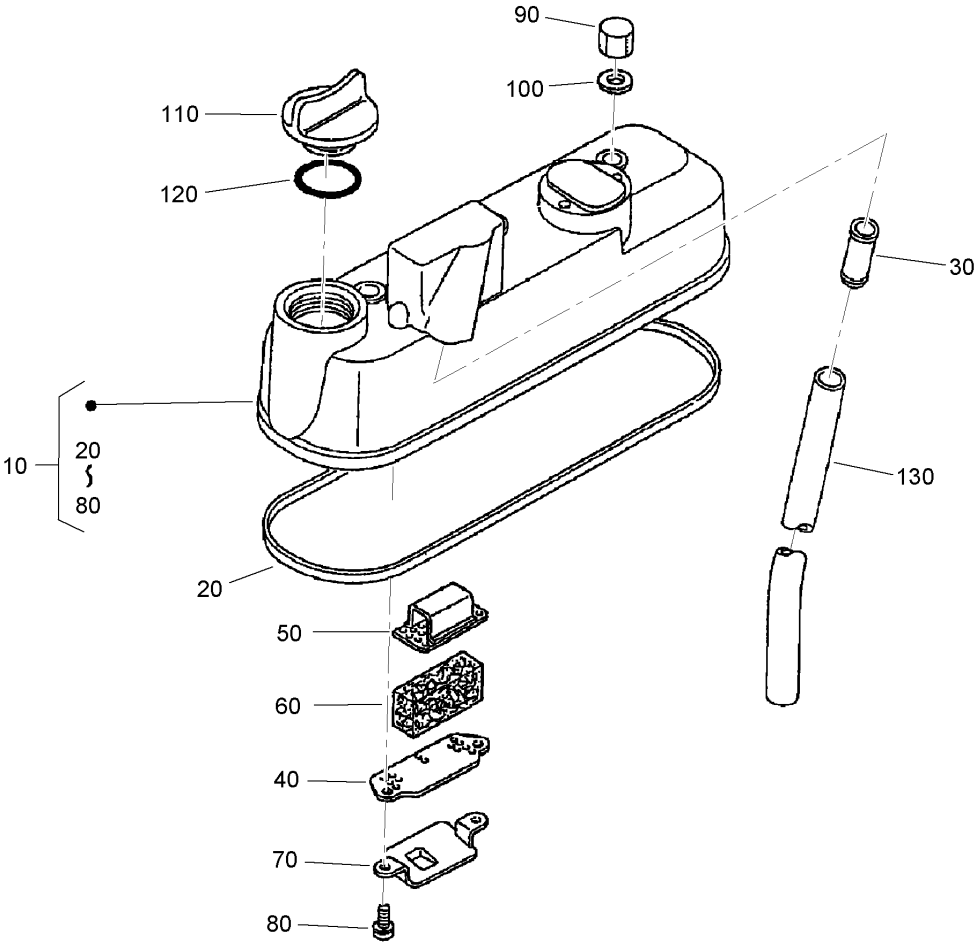
Dipstick and Oil Pan Assembly

Ref	Part No.	Qty.	Description				
10	98-9685	1	Drain-Oil				
30	107-9065	22	Bolt				
40	98-9386	2	Plug				
50	98-7524	2	Gasket				
60	108-1401	1	Filter-Oil				
70	98-7526	1	Bolt				
80	105-3776	1	O-Ring				
90	107-9076	1	Gauge-Oil				
100	105-3713	1	Guide-Gauge, Oil				



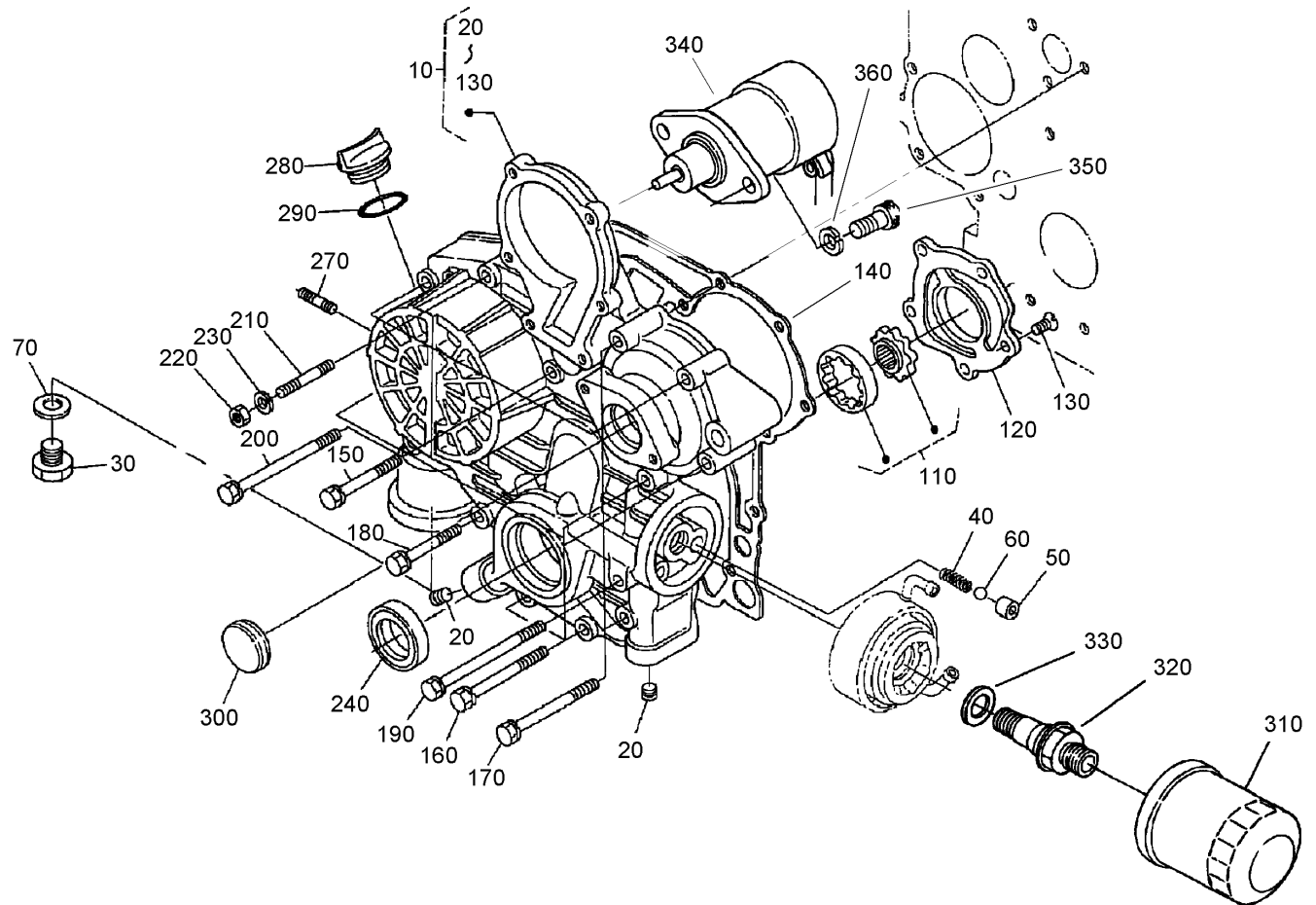
Cylinder Head Assembly

Ref	Part No.	Qty.	Description				
10	98-7531	2	Hook-Engine				
20	100-9195	2	Bolt				
30	105-3780	1	Gasket-Head, Cylinder				
40	107-7823	1	Cylinder Head ASM				
50	98-9395	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				
120	98-7509	1	O-Ring				
130	98-9444	1	Plug				



Head Cover Assembly

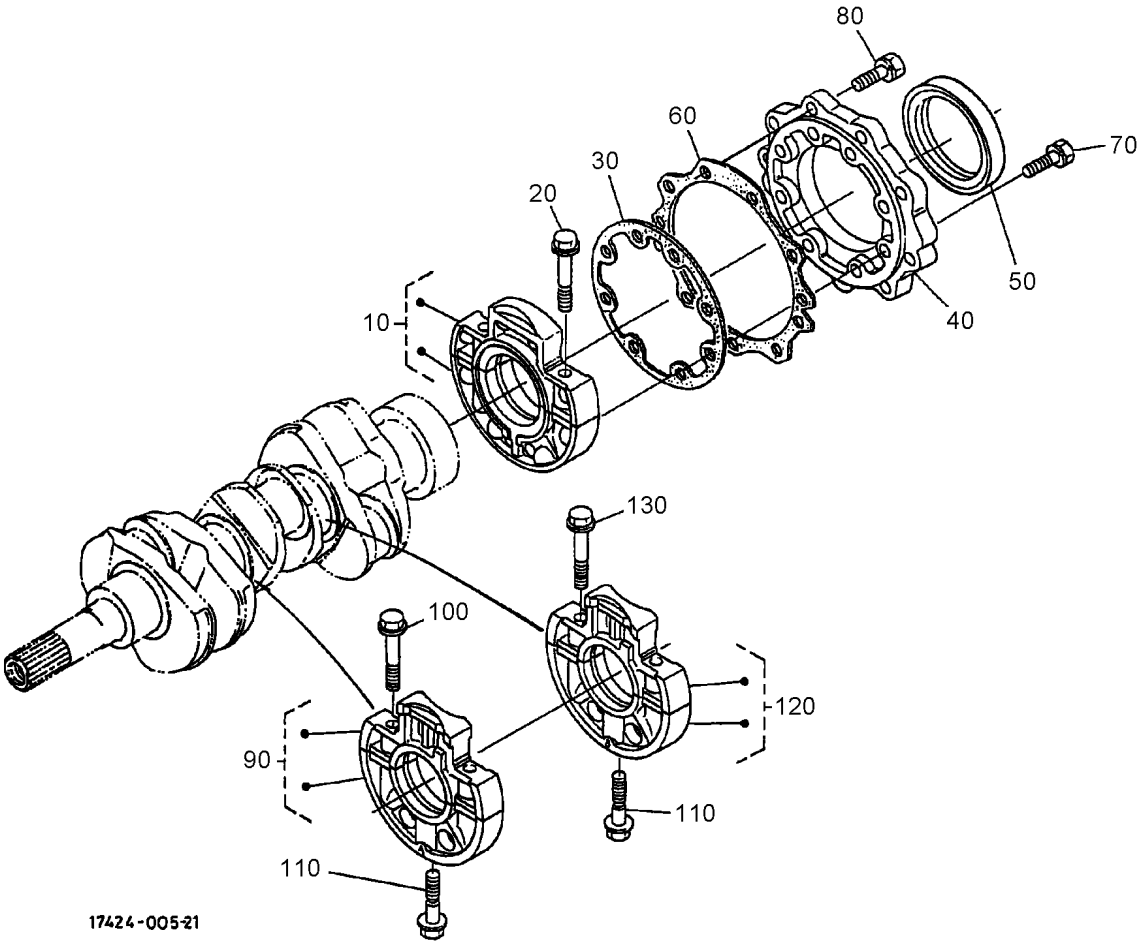
Ref	Part No.	Qty.	Description				
10	98-9614	1	Cylinder Head Cover ASM				
20	98-9615	1	Gasket-Cover, Head				
30	98-9492	1	Joint-Pipe, Breather				
40	98-9488	1	Plate-Element, Breather				
50	98-9489	1	Plate-Element, Breather				
60	98-9493	1	Element-Breather				
70	98-9490	1	Shield-Oil, Breather				
80	98-9364	2	Screw (W/Washer)				
90	98-9455	3	Nut-Cap				
100	98-9454	3	Gasket				
110	107-9075	1	Plug-Filler, Oil				
120	99-3446	1	O-Ring				
130	98-9491	1	Pipe-Breather				



Gear Case, Oil Filter and Stop Solenoid Assembly

Ref	Part No.	Qty.	Description
10	107-7825	1	Gear Case ASM
20	98-9598	5	Plug
30	99-3450	1	Plug
40	98-9544	1	Spring
50	98-9543	1	Seat-Valve
60	98-9380	1	Ball
70	99-3451	1	Plug-Packing
110	98-9540	1	Oil Pump Rotor ASM
120	105-3708	1	Cover-Pump, Oil
130	98-9592	5	Screw
140	98-9633	1	Gasket-Case, Gear
150	98-7496	3	Bolt
160	105-3797	4	Bolt
170	98-9356	2	Bolt
180	98-9437	1	Bolt
190	98-9586	2	Bolt
200	99-3511	1	Bolt
210	105-3709	1	Stud
220	98-7572	1	Nut
230	98-7699	1	Washer-Spring
240	98-9482	1	Seal-Oil
270	105-3710	2	Stud
280	107-9075	1	Plug-Filler, Oil
290	99-3446	1	O-Ring

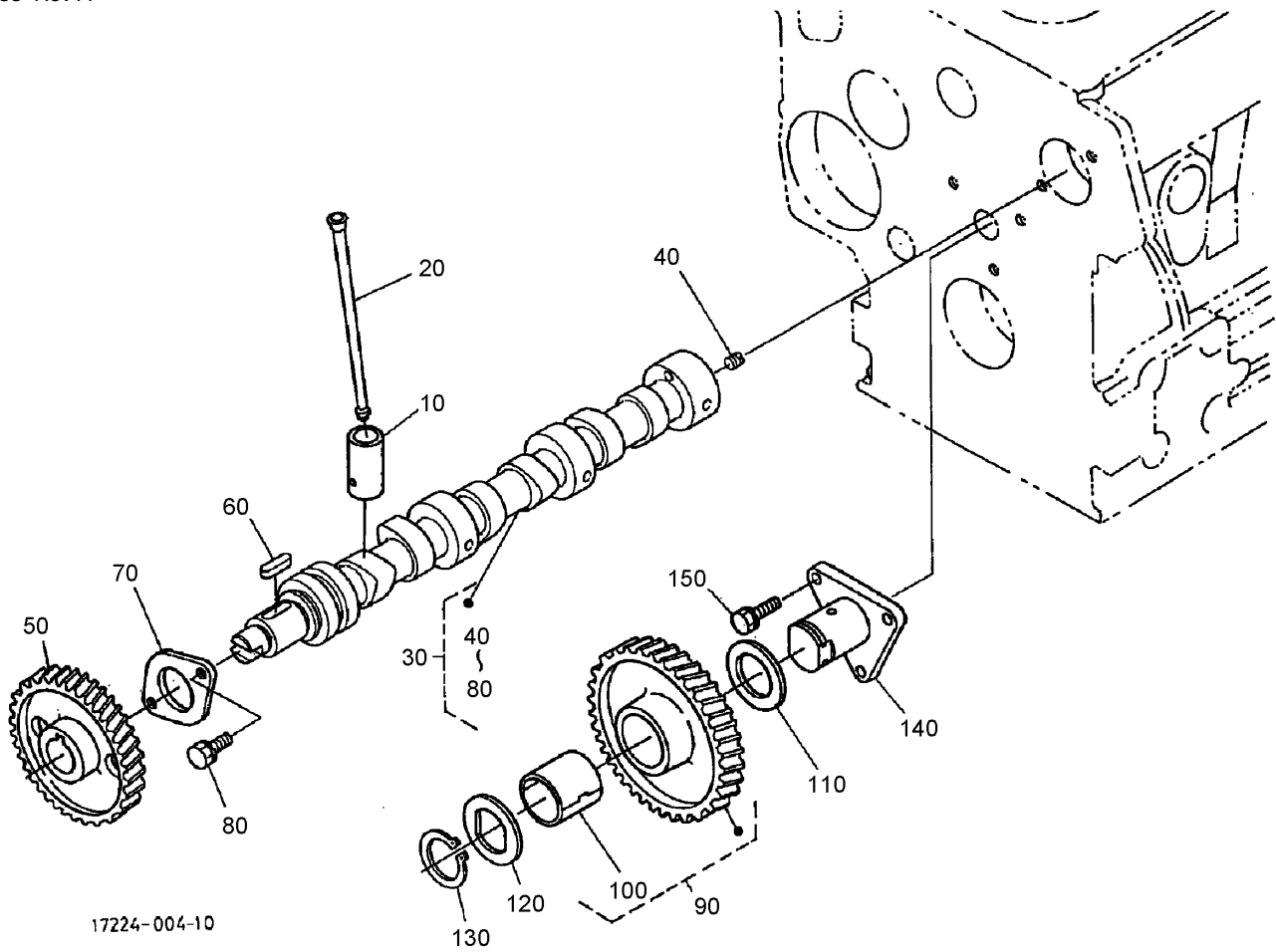
Ref	Part No.	Qty.	Description
300	98-9641	1	Cover
310	99-8384	1	Filter-Oil
320	104-5159	1	Holder ASM
330	98-9727	1	Collar
340	104-5155	1	Solenoid-Stop
350	105-3799	2	Bolt-HSH
360	98-7699	2	Washer-Spring



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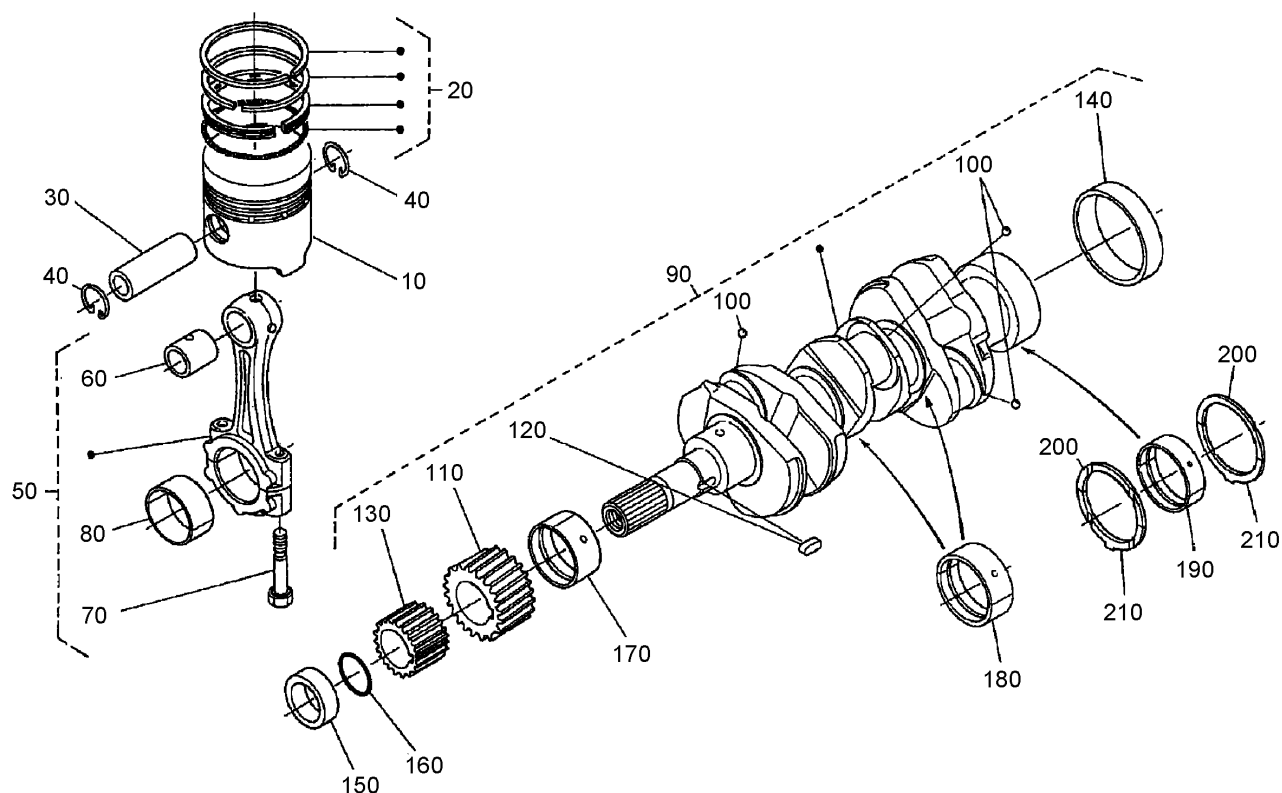
Main Bearing Assembly

Ref	Part No.	Qty.	Description				
10	98-9480	1	Main Bearing Case ASM				
20	98-9484	2	Bolt-Case, Bearing				
30	98-9634	1	Gasket-Case, Bearing				
40	98-9487	1	Cover-Case, Bearing				
50	98-9483	1	Seal-Oil				
60	98-9635	1	Gasket-Cover, Bearing Case				
70	98-9352	8	Bolt				
80	98-7568	9	Bolt				
90	99-8361	1	Case-Bearing, Main				
100	98-9484	2	Bolt-Case, Bearing				
110	98-9485	2	Bolt-Case, Bearing				
120	99-8360	1	Case-Bearing, Main				
130	98-9484	2	Bolt-Case, Bearing				



Camshaft and Idle Gear Shaft Assembly

Ref	Part No.	Qty.	Description				
10	98-9616	6	Tappet				
20	98-9509	6	Rod-Push				
30	99-8362	1	Camshaft ASM				
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	Clip-Circular, Idle Gear				
140	98-9533	1	Shaft-Gear, Idle				
150	98-7692	3	Bolt				

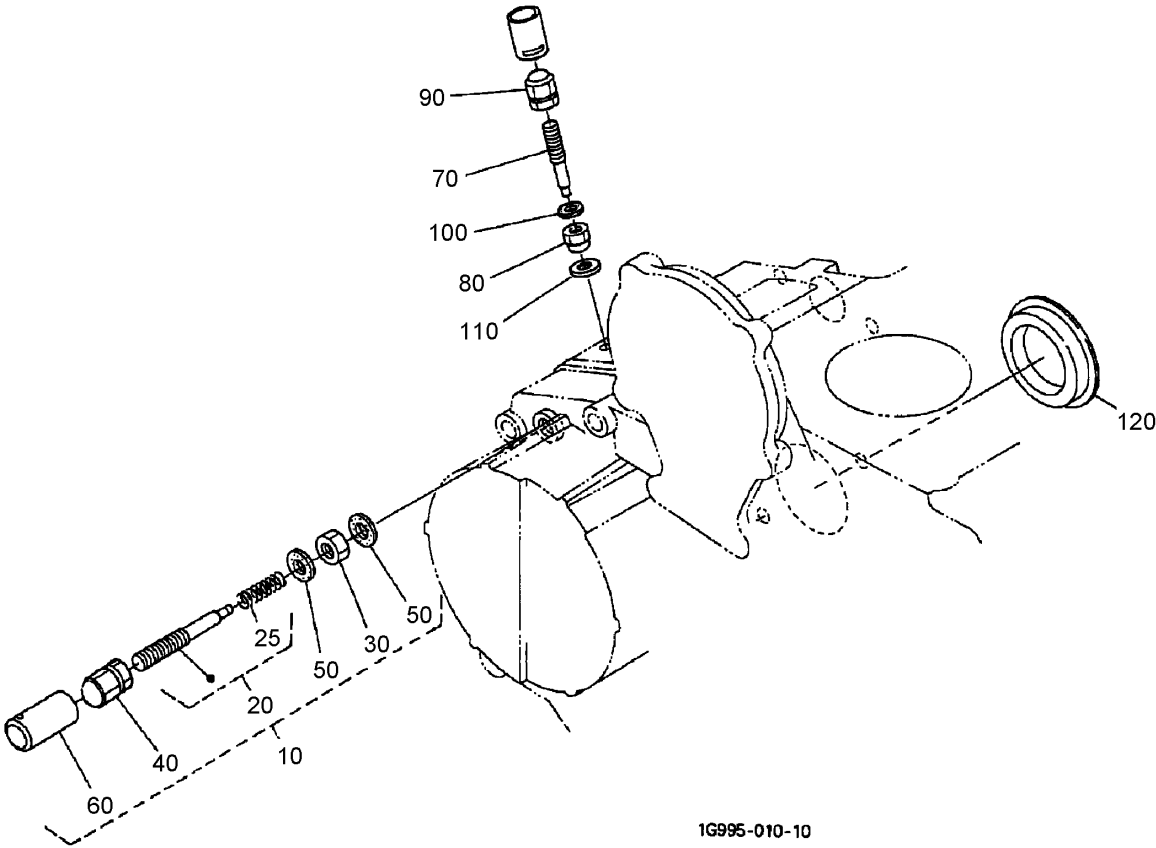


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Piston and Crankshaft Assembly

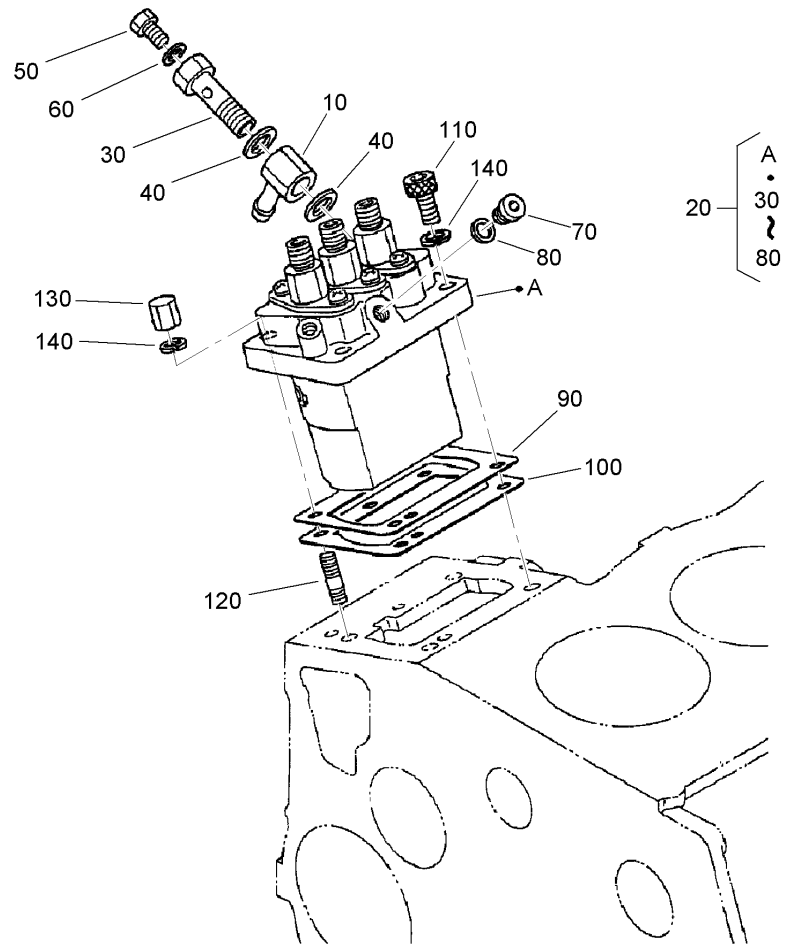
Ref	Part No.	Qty.	Description
10	98-9550	3	Piston (STD)
10	108-1417	3	Piston, 0.5Mm
20	98-9551	3	Piston Ring ASM (STD)
20	108-1404	3	Piston Ring ASM (0.5Mm)
30	98-9513	3	Pin-Piston
40	98-9514	6	Clip-Circular, Piston Pin
50	98-9552	3	Connecting Rod ASM
60	98-9515	3	Bushing-Pin, Piston
70	98-9517	6	Bolt-Rod, 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	98-7473	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
150	98-9521	1	Collar-Crankshaft
160	105-3783	1	O-Ring
170	98-9554	1	*obs* Bearing-Main (STD)
170	108-1407	1	Metal-Crankpin, -0.2Mm
170	108-1408	1	Metal-Crankpin, -0.4Mm
180	98-9555	2	Bearing-Main (STD)

Ref	Part No.	Qty.	Description
180	108-1409	2	Metal-Crankpin, -0.2Mm
180	108-1410	2	Metal-Crankpin, -0.4Mm
190	98-9556	1	Bearing-Main (STD)
190	105-3719	1	Metal-Crankshaft (.2Mm)
190	105-3720	1	Metal-Crankshaft (.4Mm)
200	99-6864	2	Metal-Side (STD)
200	99-6865	2	Metal-Side, O/S (0.2Mm)
200	99-6866	2	Metal-Side, O/S (0.4Mm)
210	99-6867	2	Metal-Side (STD)
210	99-6868	2	Metal-Side, O/S (0.2Mm)
210	99-6869	2	Metal-Side, O/S (0.4Mm)



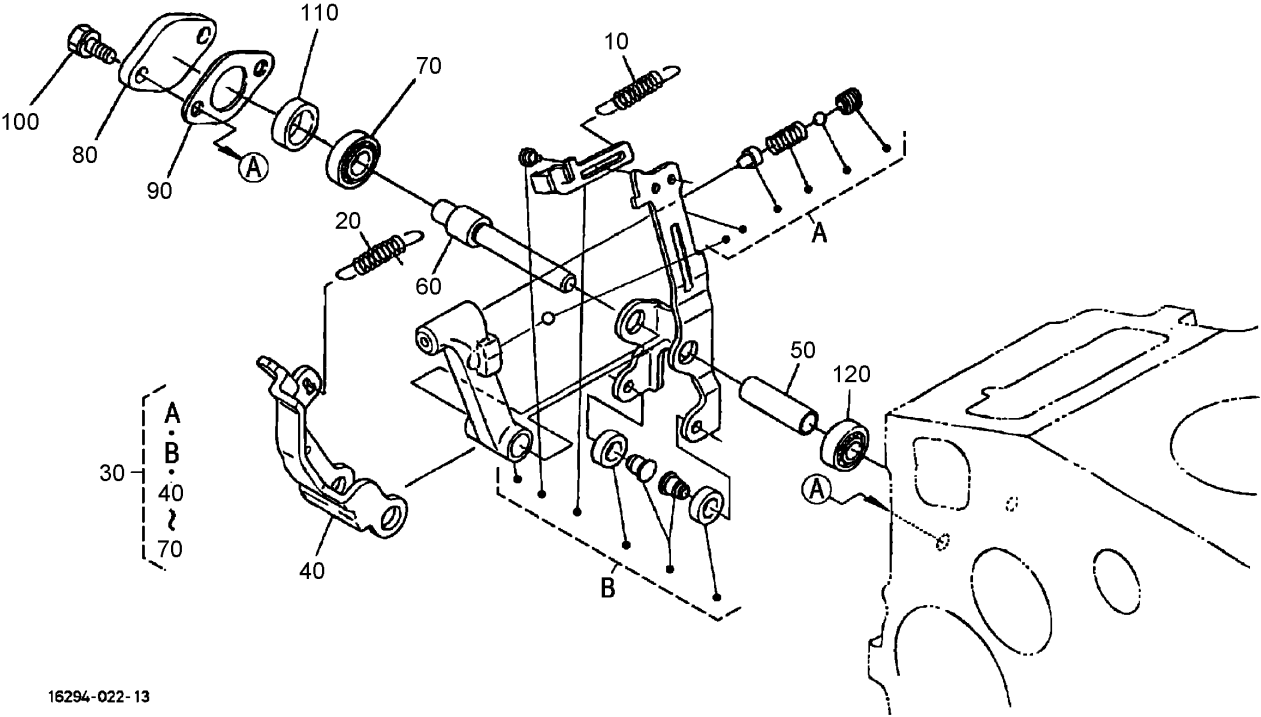
Idle Apparatus Assembly

Ref	Part No.	Qty.	Description				
10	105-3726	1	Idle Apparatus ASM				
20	104-4802	1	Adjusting Bolt ASM				
25	107-9080	1	Spring				
30	98-9439	1	Nut				
40	99-8387	1	Nut-Cap				
50	98-7654	2	Gasket				
60	98-7656	1	Cap				
70	98-9557	1	Bolt-Adjusting				
80	100-2175	1	Nut-Lock				
90	99-8387	1	Nut-Cap				
100	98-7654	1	Gasket				
110	107-9081	1	Gasket				
120	98-9640	1	Cover-Pump				



Injection Pump Assembly

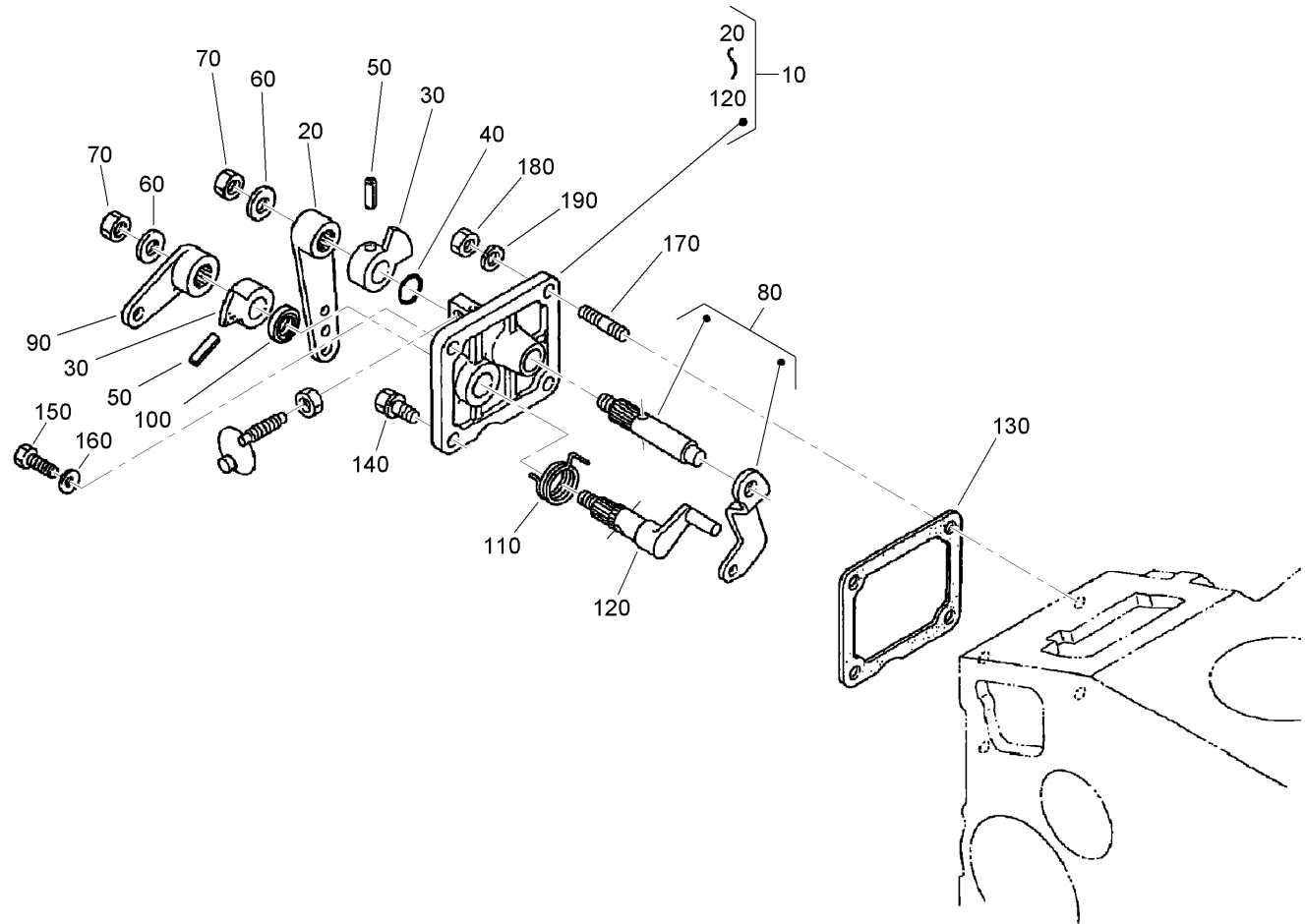
Ref	Part No.	Qty.	Description				
10	98-9596	1	Joint-Eye				
20	98-9643	1	Injection Pump ASM				
30	98-9464	1	Bolt-Joint				
40	98-9445	2	Gasket				
50	98-9430	1	Screw				
60	98-9446	1	Gasket				
70	98-9466	1	Plug				
80	98-9451	1	Gasket				
90	98-9457	1	Shim-Injection (0.25Mm)				
90	98-9456	1	Shim (0.2Mm)				
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				



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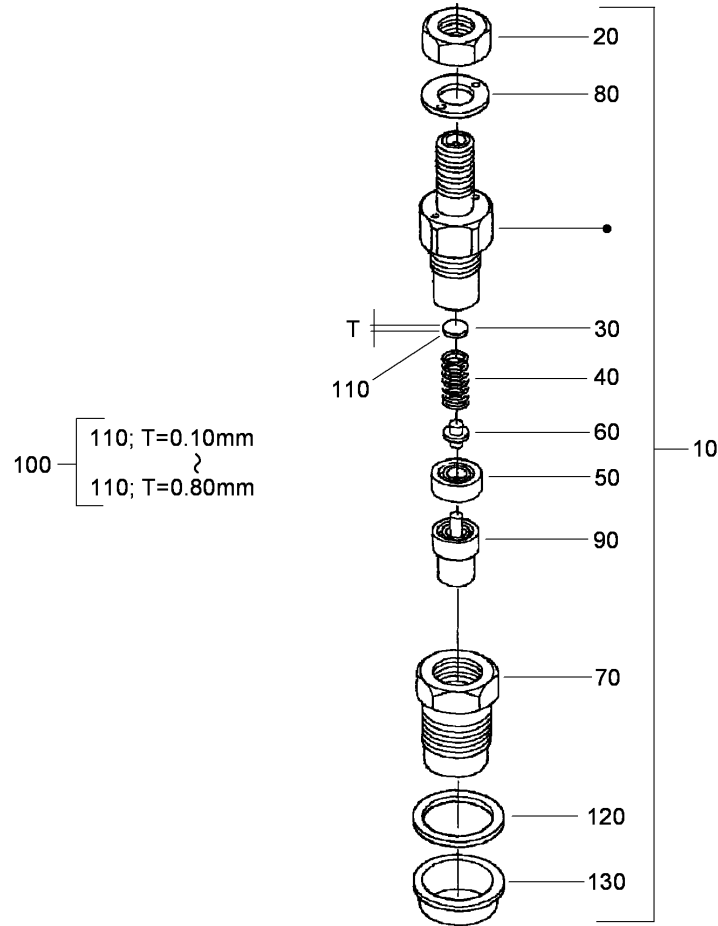
Governor Assembly

Ref	Part No.	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	98-9351	2	Bolt				
110	98-9567	1	Collar				
120	98-9571	1	Bearing-Miniaturize				



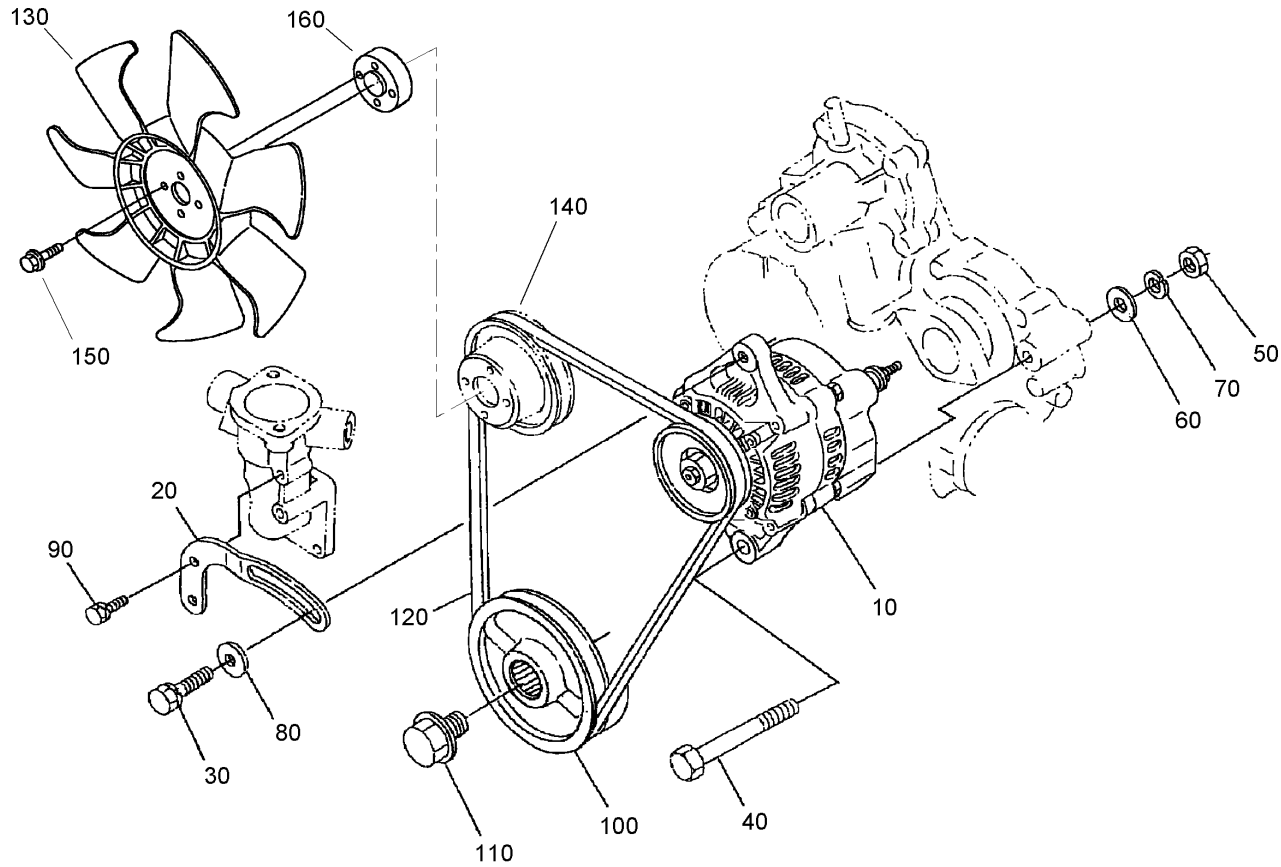
Speed Control Plate Assembly

Ref	Part No.	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				



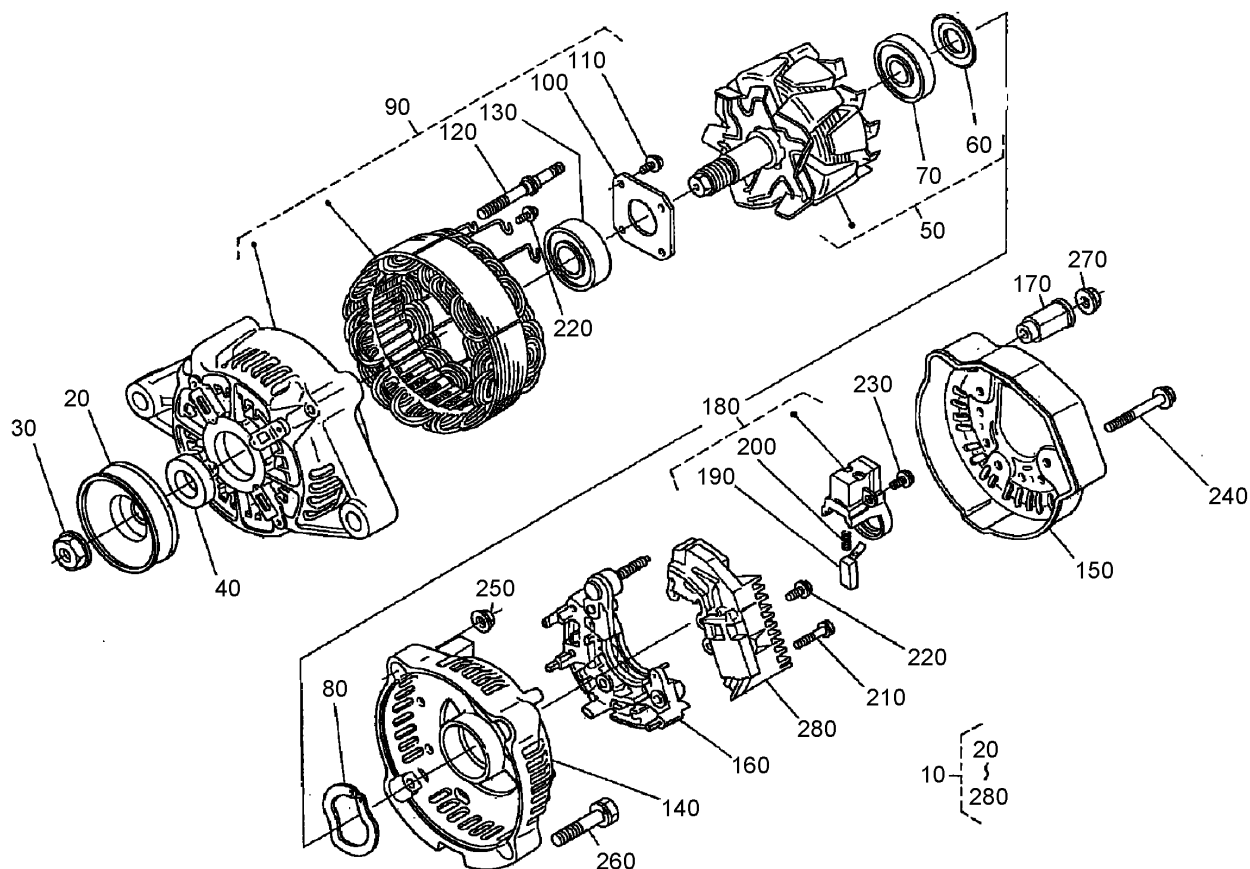
Nozzle Holder Assembly

Ref	Part No.	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)				
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				



Alternator and Pulley Assembly

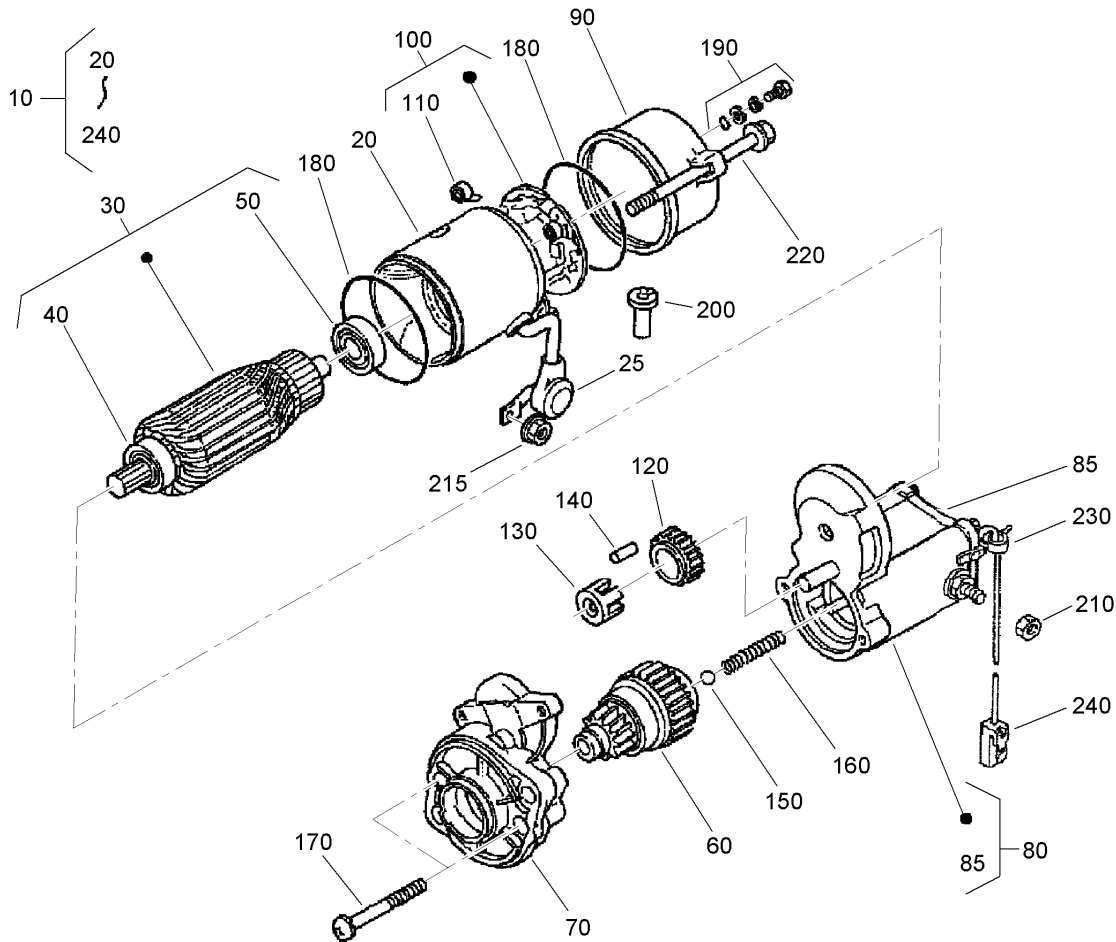
Ref	Part No.	Qty.	Description				
10	98-9474	1	Alternator ASM				
20	98-9573	1	Stay-Dynamo				
30	98-7697	1	Bolt				
40	98-9360	1	Bolt				
50	98-7737	1	Nut				
60	98-9366	1	Washer-Plain				
70	98-7738	1	Washer-Spring				
80	100-9233	1	Washer-Plain				
90	98-7692	1	Bolt				
100	99-3456	1	Pulley-Drive, 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	108-2873	4	Bolt-Flange				
160	108-2872	1	Collar-Fan				



Alternator (Component Part) Assembly

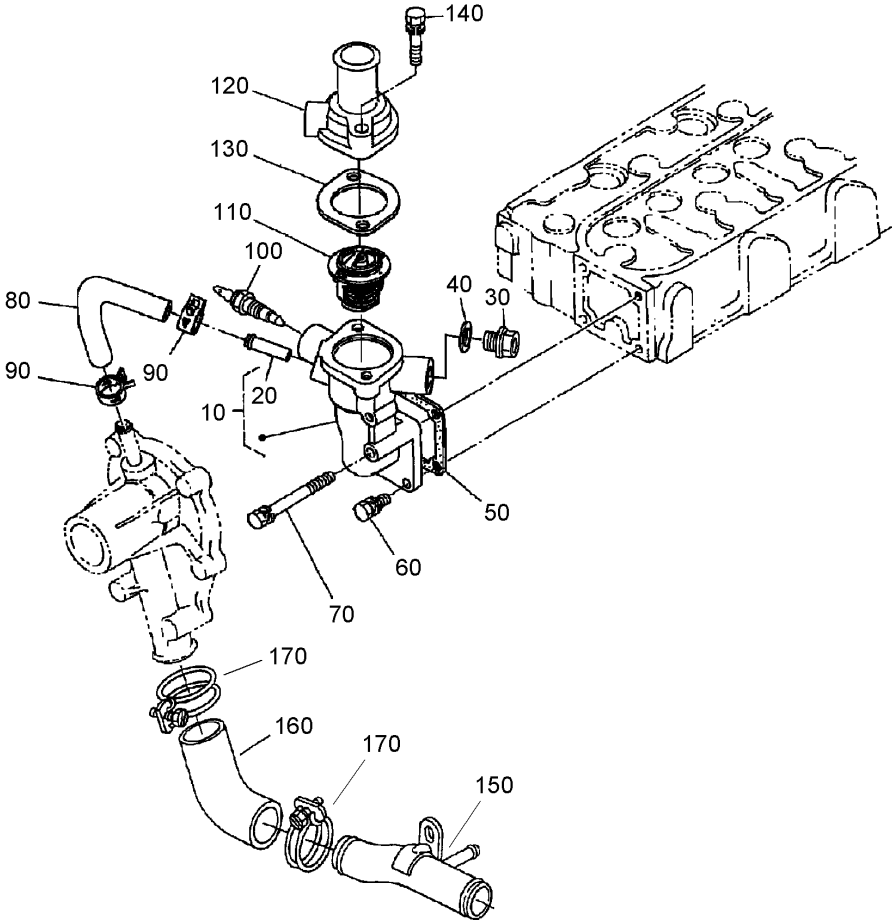
Ref	Part No.	Qty.	Description
10	98-9474	1	Alternator ASM
20	98-9453	1	Pulley-Dynamo
30	98-7708	1	Nut
40	98-7709	1	Collar
50	107-0136	1	Rotor
60	98-7711	1	Cover-Bearing
70	107-0138	1	Bearing-Ball
80	98-7713	1	Washer-Thrust
90	107-0139	1	Drive End Frame ASM
100	98-7715	1	Plate-Retainer
110	98-7716	4	Screw-Head, Round
120	98-7717	2	Bolt-Through
130	107-0137	1	Bearing-Ball
140	107-9087	1	Frame-End
150	107-0140	1	Cover-End
160	98-9476	1	Rectifier ASM
170	98-7722	1	Bushing-Insulation
180	107-0141	1	Holder-Brush
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

Ref	Part No.	Qty.	Description
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	107-9088	1	Regulator ASM



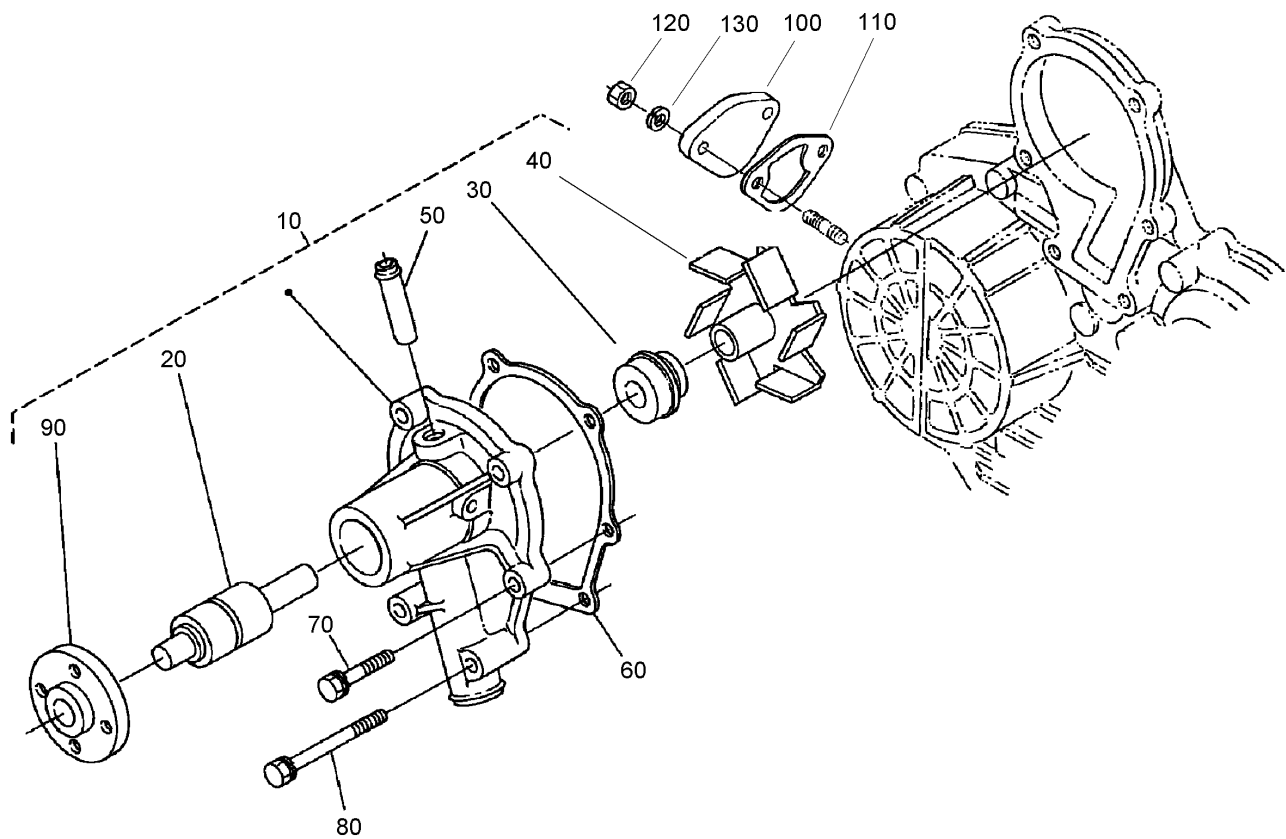
Starter (Component Part) Assembly No. 98-9705

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
10	98-9705	1	Starter ASM	220	100-9240	2	Bolt
20	104-8608	1	Yoke ASM	230	98-9712	1	Band-Cover
25	99-8375	1	Cover	240	98-9711	1	Cord-Solenoid, Stop
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				
130	98-7752	1	Retainer				
140	98-7753	5	**obs** 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				



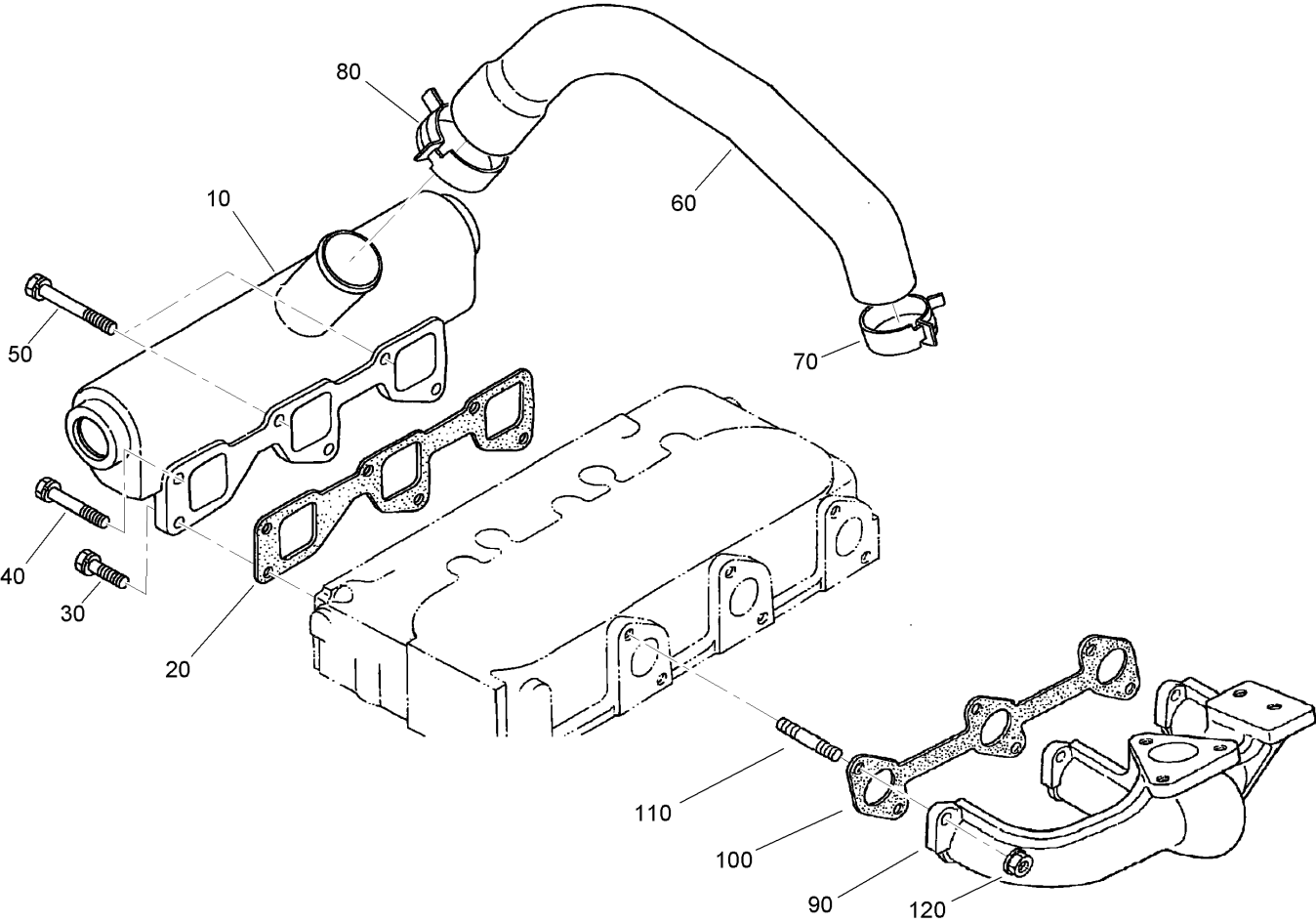
Water Flange and Thermostat Assembly

Ref	Part No.	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	Packing				
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	98-9719	1	Thermoswitch				
110	98-7778	1	Thermostat ASM				
120	104-4804	1	Outlet-Water				
130	105-3748	1	Gasket-Thermostat				
140	98-7777	2	Bolt				
150	99-8379	1	Pipe-Water				
160	107-9091	1	Pipe-Water				
170	98-9717	2	Clamp				



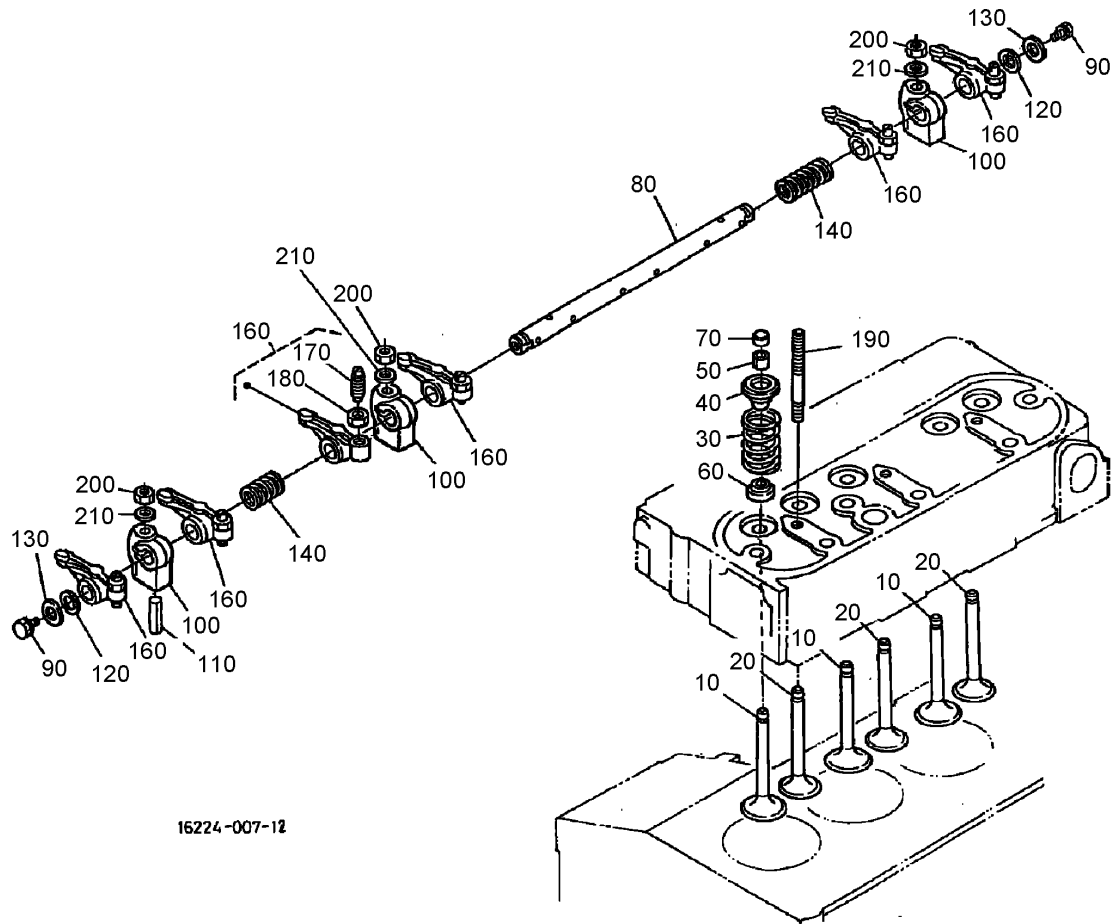
Water Pump Assembly

Ref	Part No.	Qty.	Description				
10	107-9089	1	Water Pump ASM				
20	99-3517	1	Bearing-Pump, Water				
30	105-3750	1	Mechanical Seal ASM				
40	99-3519	1	Impeller-Pump, Water				
50	98-9577	1	Pipe-Return, Water				
60	99-3454	1	Gasket-Pump, Water				
70	98-9353	4	Bolt				
80	98-9357	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				



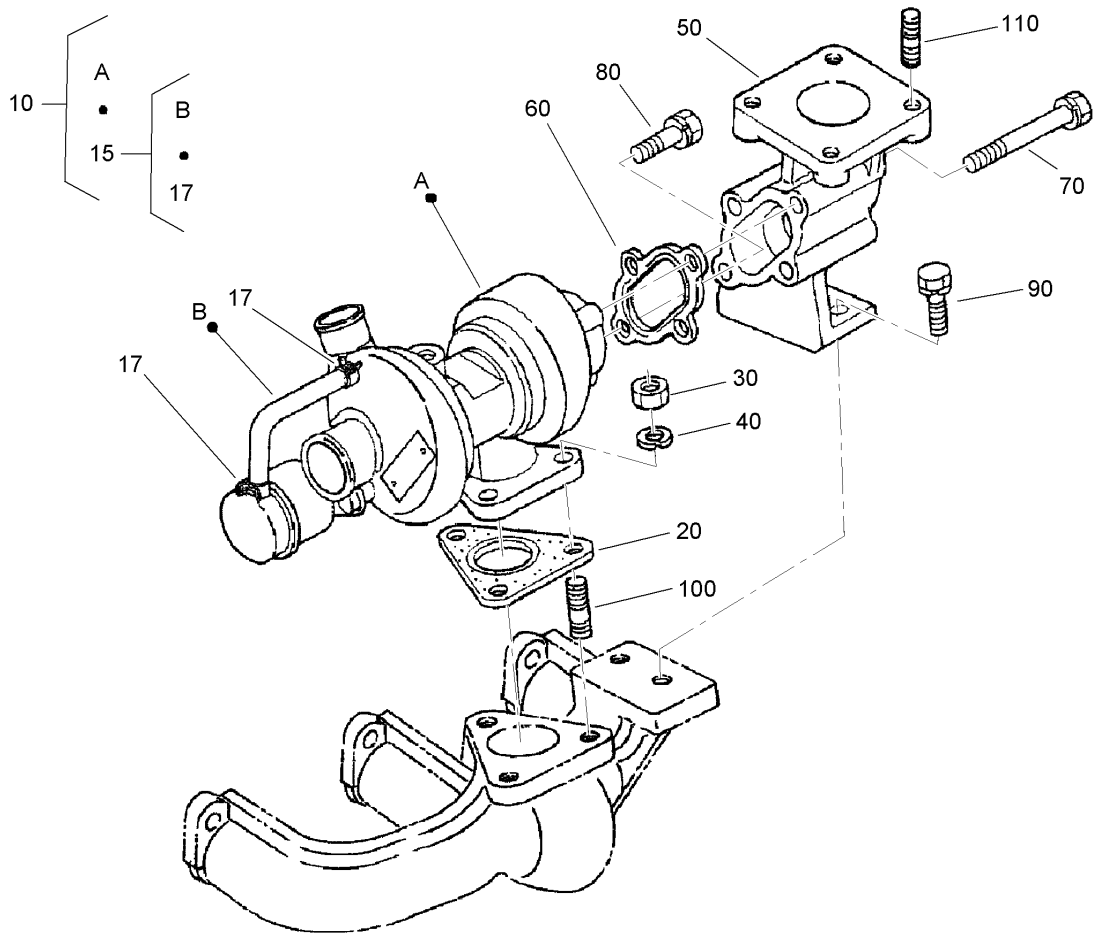
Inlet and Exhaust Manifold Assembly

Ref	Part No.	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	99-8323	1	Hose-Inlet				
70	99-8324	1	Band-Pipe				
80	99-8322	1	Band-Pipe				
90	108-1411	1	Manifold-Exhaust				
100	98-9610	1	Gasket				
110	98-9588	6	Stud				
120	98-9665	6	Nut				



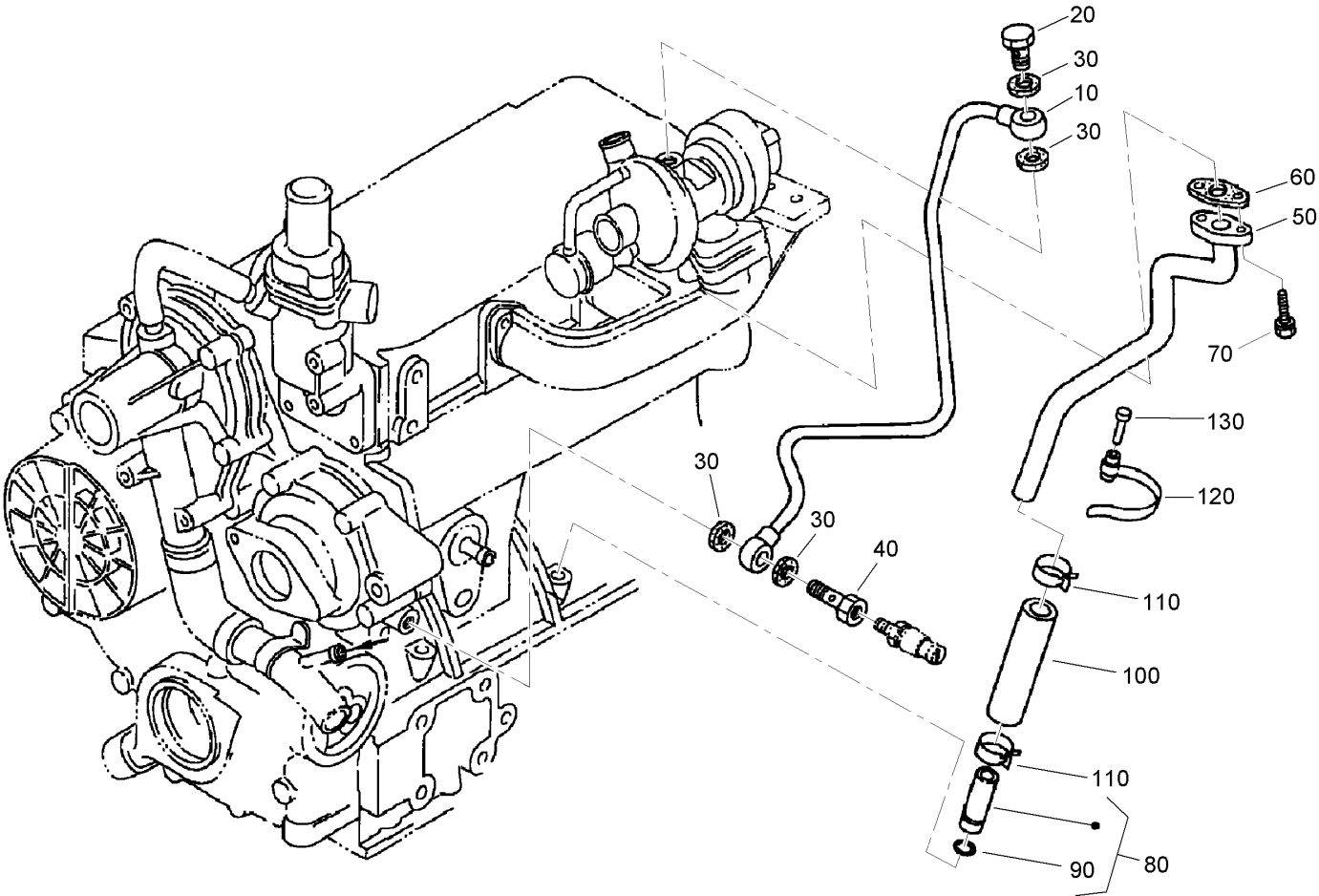
Valve Rocker Arm Assembly

Ref	Part No.	Qty.	Description				
10	98-9494	3	Valve-Inlet				
20	98-9625	3	Valve-Exhaust				
30	98-9626	6	Spring-Valve				
40	107-9092	6	Retainer-Spring				
50	98-9390	6	Collet-Set, Valve Spring				
60	99-8385	6	Seat-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	100-1927	2	Washer-Plain				
140	98-9504	2	Spring-Arm, Rocker				
160	98-9501	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				



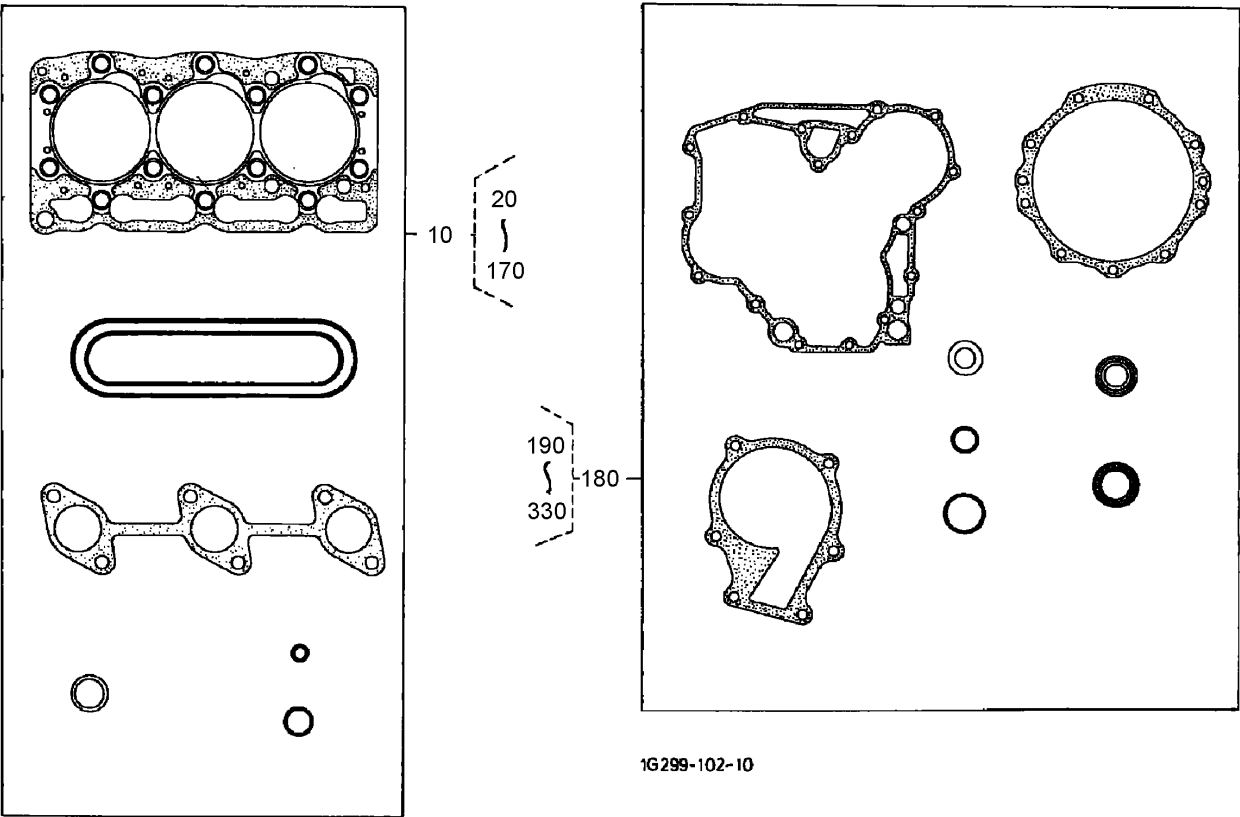
Turbo Charger Assembly

Ref	Part No.	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	98-7535	3	Washer-Spring				
50	99-8335	1	Flange-Muffler				
60	105-3768	1	Gasket				
70	105-2894	3	Bolt				
80	105-2895	1	Bolt				
90	98-7610	2	Bolt				
100	99-8341	3	Stud				
110	98-7769	4	Stud				



Turbo Charger Oil Pipe Assembly

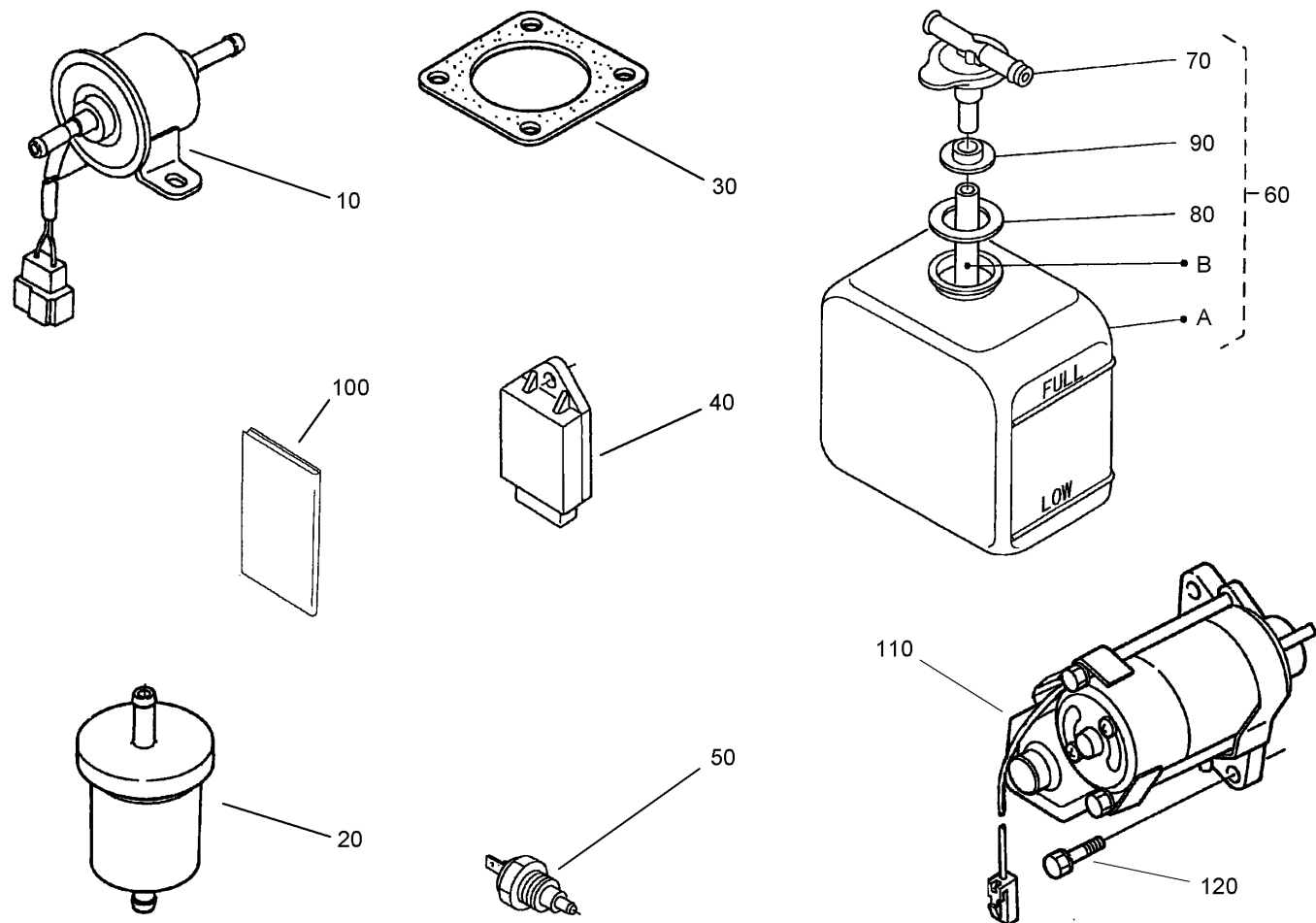
Ref	Part No.	Qty.	Description				
10	98-9419	1	Oil Pipe ASM				
20	98-9418	1	Bolt-Joint, Eye				
30	99-8346	4	Gasket				
40	98-9417	1	Bolt-Joint, Eye				
50	98-9461	1	Pipe Line ASM				
60	98-9435	1	Gasket-Oil Return, Turbo				
70	98-7605	2	Bolt				
80	99-8383	1	Oil Pipe ASM				
90	98-9374	1	O-Ring				
100	98-9721	1	Pipe-Oil				
110	98-9714	2	Clamp-Hose				
120	98-9601	1	Clamp-Pipe				
130	98-9591	1	Pin-Band				



Gasket Kit Assembly

Ref	Part No.	Qty.	Description
10	108-1415	1	Upper Gasket Kit
●20	98-7538	1	Cap-Sealing
●30	105-3780	1	Gasket-Head, Cylinder
●40	99-8329	1	Gasket-Manifold, Intake
●50	105-3767	1	Gasket
●60	105-3768	1	Gasket
●70	98-9610	1	Gasket
●80	99-8385	6	Seat-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	98-9435	1	Gasket-Oil Return, Turbo
●140	98-9374	1	O-Ring
●150	98-9638	1	Gasket-Flange, Water
●160	105-3748	1	Gasket-Thermostat
●170	98-9611	1	Gasket
180	108-1416	1	Lower Gasket Kit
●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

Ref	Part No.	Qty.	Description
●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



Starter, Overflow Bottle and Other Miscellaneous Part Assembly

Ref	Part No.	Qty.	Description				
10	107-0122	1	Pump-Fuel, Electric				
20	98-7612	1	Filter-Fuel				
30	98-9611	1	Gasket				
40	98-7611	1	Controller-Glow				
50	106-7772	1	Thermoswitch				
60	104-9318	1	Bottle-Overflow				
70	105-3754	1	Cap				
80	105-3755	1	Gasket				
90	105-3756	1	Plate				
100	107-7827	1	Manual-Operator, Kubota				
110	98-9705	1	Starter ASM				
120	98-7697	2	Bolt				

Attachments and Accessories

For 30826 - Groundsmaster 3505-D

Product Name	Model/Part
Blade-Lift, High	104-5183
Blade-Sail, Angle	105-9810-03
Blade-Atomic	107-0235-03
Blade-Combo	108-9026-03
27 Inch Rotary Cutting Unit	30834
Leaf Mulching Kit	30836

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