



Groundsmaster® 328-D

Model No. 30630 - 250000001 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	HWHTF.	hex washer head thread forming
ASM.	assembly	HYD.	hydraulic
CARR.	carriage	INC.	incorporated
DEG.	degrees	LH.	left hand
EXT.	external	NI.	nylon insert
FH.	flat head	NPTF.	national pipe thread fine
GA.	gauge	PPH.	phillips pan head
HF.	hex flange	PPHTF.	phillips pan head thread forming
HH.	hex head	PRH.	phillips round head
HHF.	hex head flange	PTH.	phillips truss head
HHFTF.	hex head flange thread forming	PTO.	power take off
HJ.	hex jam	RH.	right hand
HLH.	hex lag head	ROPS.	roll over protection system
HOC.	height-of-cut	SFH.	slotted fillister head
HS.	hex	SHH.	slotted hex head
HSBH.	hex socket button head	SHWH.	slotted hex washer head
HSFH.	hex socket flat head	SPH.	slotted pan head
HSH.	hex socket head	SQH.	square head
HWH.	hex washer head		

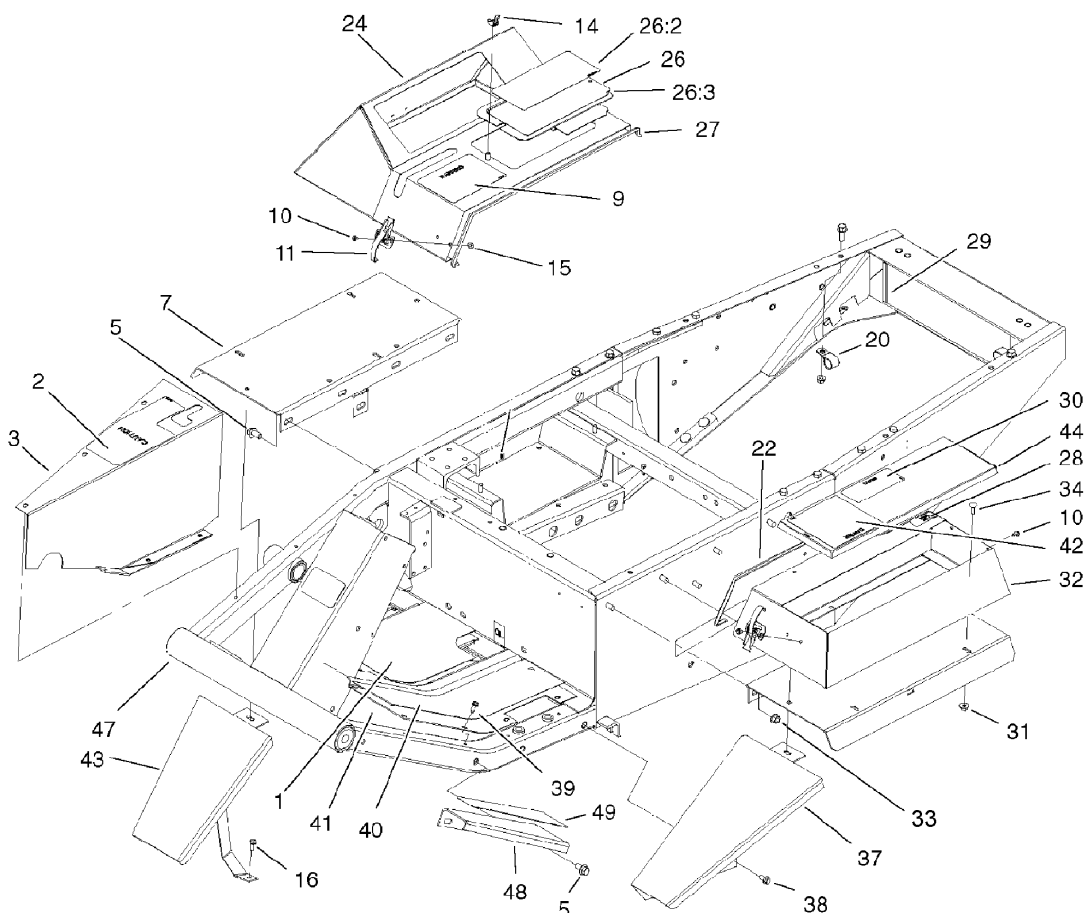
Footnotes

- ❶

Not illustrated
- ❷

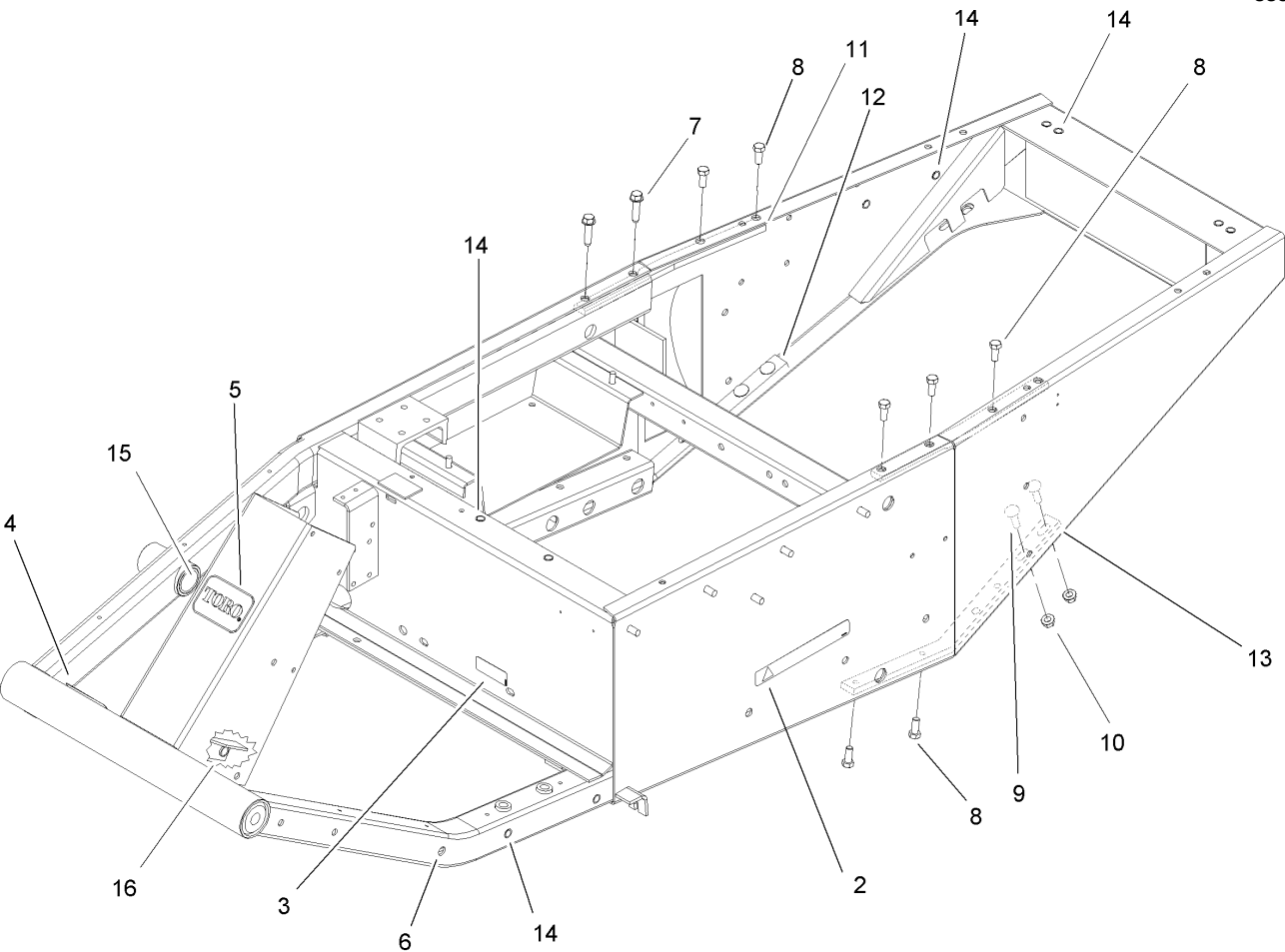
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Optional Equipment



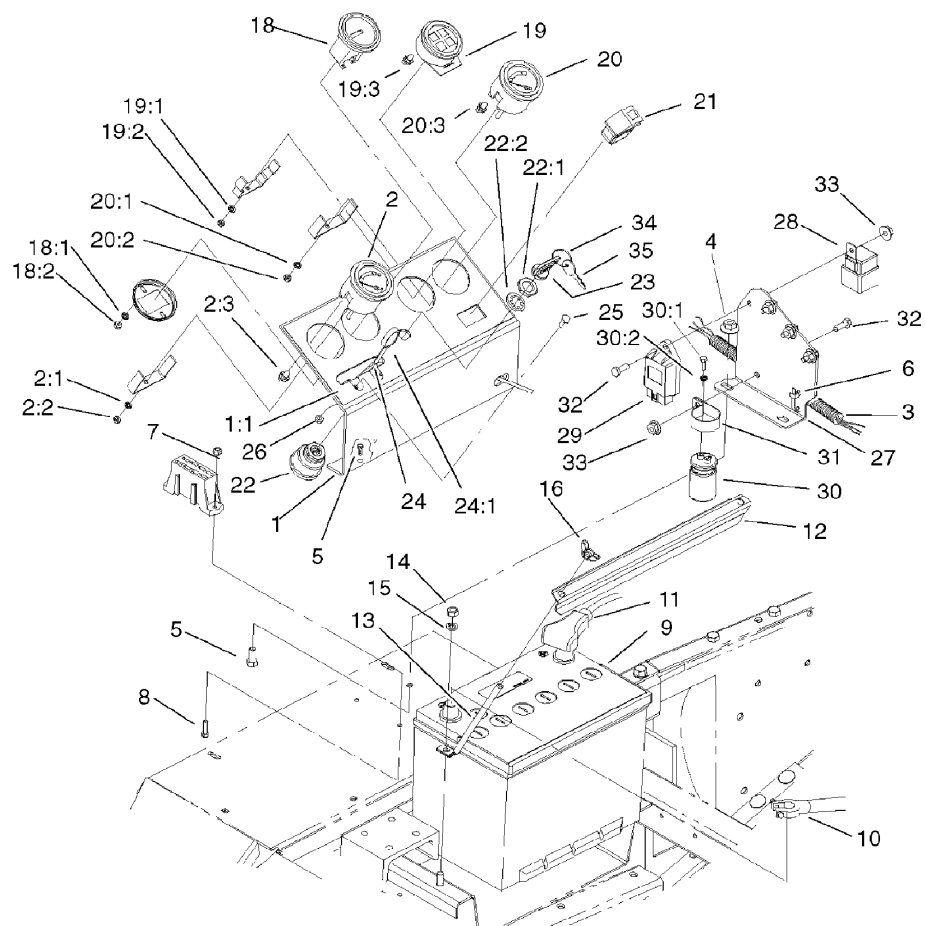
Frame Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	21-2770	1	Pad-Floor Plate, RH	34	3229-1	5	Screw-CARR
2	105-7823	1	Decal-Caution	37	68-8610-01	1	Extension-Fender
3	21-2660-01	1	Plate-Side	38	3234-14	2	Screw-HHF
5	3234-12	5	Screw-HHF	39	32144-10	11	Screw-HWH
7	105-2596-01	2	Fender ASM	40	21-2760	1	Pad-Plate Floor, LH
9	107-2918	1	Decal-Danger	41	88-0070-01	1	Plate-Floor
10	3290-144	9	Screw-SHWH	42	93-7839	1	Decal-Danger
11	249-21	3	Clamp-Slotted	43	93-7626-01	1	Fender-RH
14	32103-2	1	Nut-Wing	44	93-3177-03	1	Cover-Box, Tool
15	3296-2	9	Nut-Lock	47	98-3879	1	Frame ASM
16	3234-33	1	Screw-HHF	48	93-7410-01	1	Panel-Footrest
20	2412-4	2	Clamp	49	66-3200	1	Tread-Footrest, LH
22	37-9650	1	Trim-Box, Tool				
24	38-4550-03	1	Cover-Instruments				
26	105-2565	1	Battery Cover ASM				
26:2	107-2927	1	Decal-Starting Instructions				
26:3	92-7801	1	Shield-Cover, Battery				
27	39-8020	1	Trim-Cover, Instrument				
28	93-6680	1	Decal-Diesel				
29	43-4300	2	Trim-Frame, Rear				
30	93-7822	1	Decal-Refueling				
31	32128-33	5	Nut-HF				
32	93-3182-03	1	Box-Tool				
33	3290-357	6	Nut-HHF				



Frame Assembly No. 98-3879

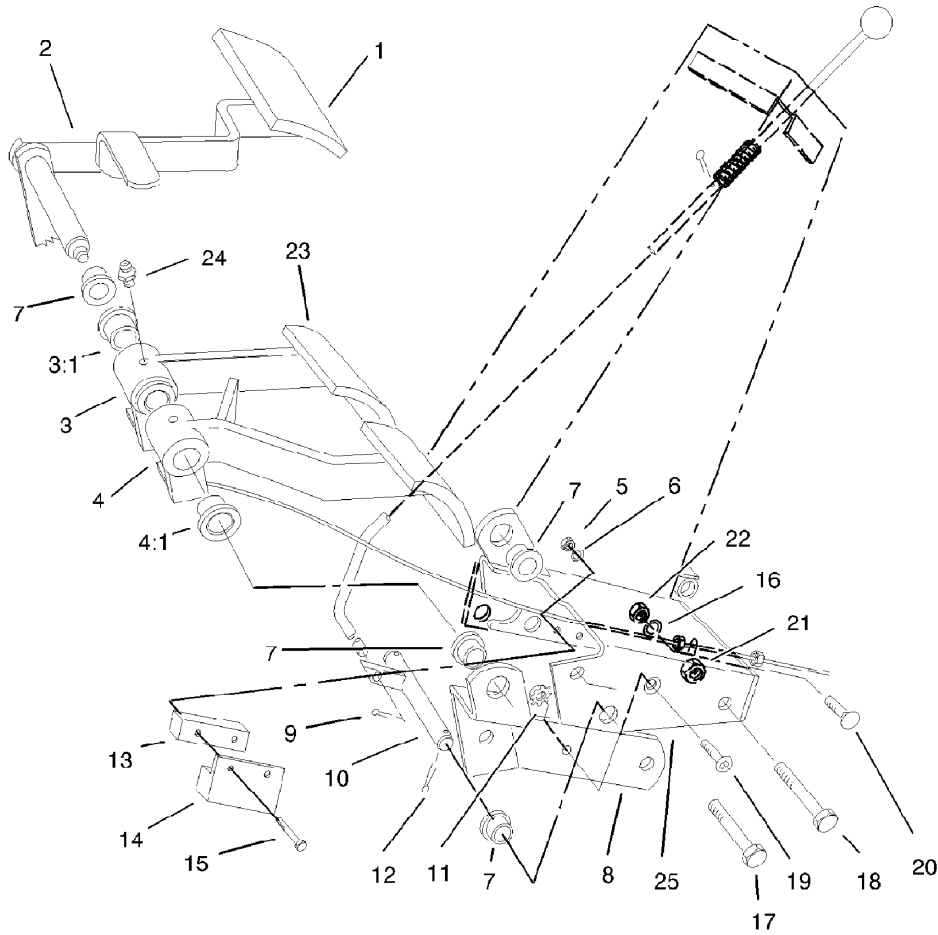
Ref	Part No.	Qty.	Description				
2	93-7830	2	Decal-Torque				
3	93-6686	1	Decal-Oil, HYD				
4	93-7836	1	Decal-Traction Pedal				
5	70-2200	1	Decal				
6	32148-9	1	Insert-Nut				
7	11-0590	2	Screw-HWHTF				
8	3234-25	9	Screw-HHF				
9	3231-25	4	Screw-CARR				
10	32128-21	4	Nut-HF				
11	98-3866-01	2	Brace-Upper				
12	98-3865-01	1	Brace-Right, Lower				
13	98-3864-01	1	Brace-Left, Lower				
14	3290-472	10	Insert-Threaded				
15	256-126	2	Bushing				
16	256-156	1	Bushing-Flange				



Control Panel Assembly

Ref	Part No.	Qty.	Description
1	105-2917	1	Instrument Panel ASM
1:1	105-0056	1	Decal-Panel, Instrument
2	98-9339	1	Gauge-Fuel
2:1	3254-1	3	Washer-Lock, Int
2:2	3217-27	3	Nut-Hex
2:3	105-9265	1	Bulb And Lamp ASM
3	104-4065	1	Harness-Wire, Main
4	32128-30	4	Nut
5	322-3	4	Screw-HH
6	3290-379	2	Tie-Cable
7	3296-2	2	Nut-Lock
8	32105-13	2	Screw-SHH
9	106-5190	1	Battery
10	104-9497	1	Cable-Battery, Negative
11	95-8853	1	Cable-Battery, Positive
12	24-6420-03	1	Holddown-Battery
13	24-6390	2	Stud-Holddown, Battery
14	3217-6	2	Nut-Hex
15	3253-4	2	Washer-Lock
16	32103-2	2	Nut-Wing
18	66-2950	1	Gauge-Hourmeter
18:1	3255-20	2	Washer-Lock
18:2	3217-25	2	Nut-Hex
19	98-9306	1	Light-Warning

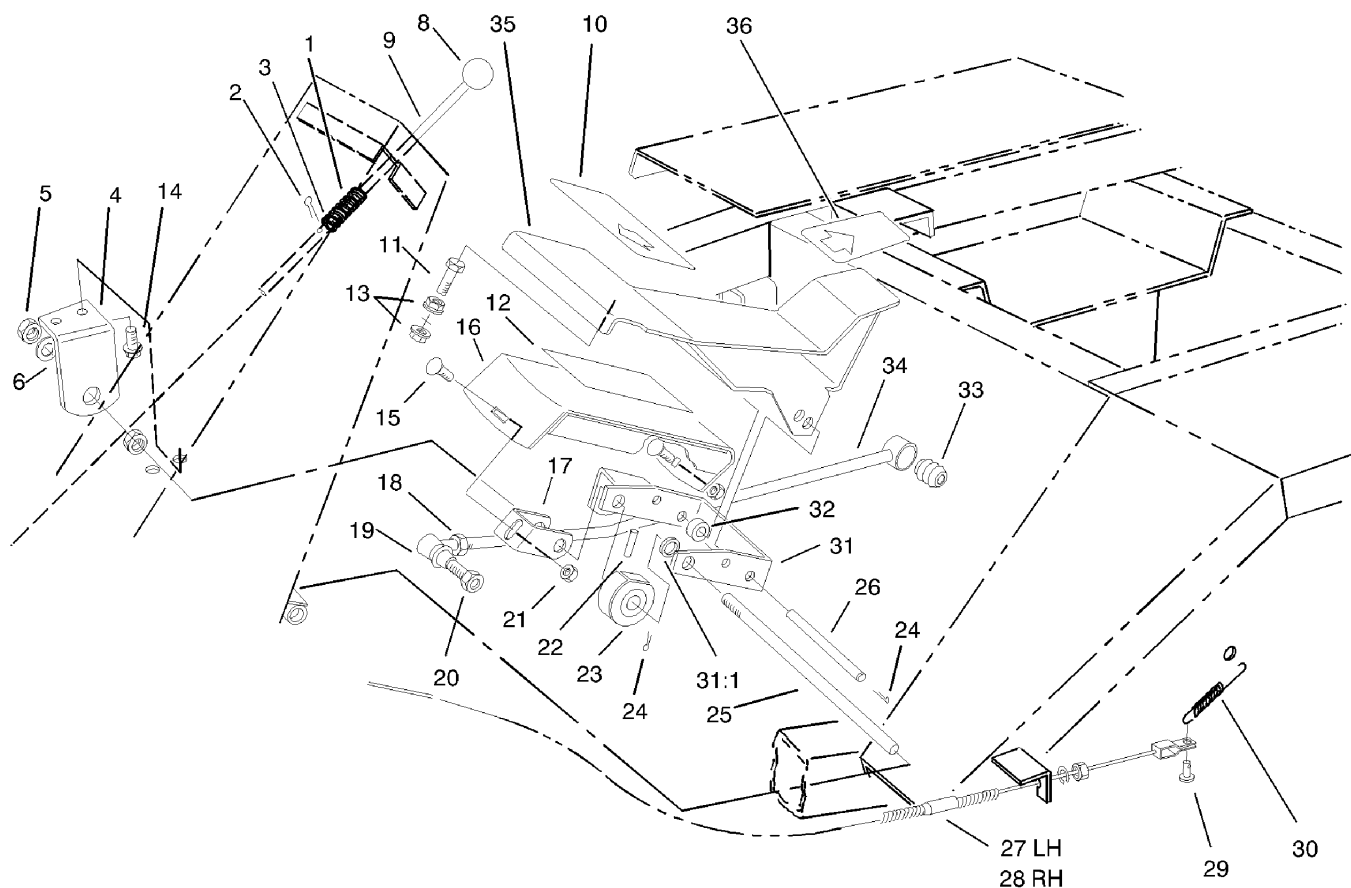
Ref	Part No.	Qty.	Description
19:1	3254-1	1	Washer-Lock, Int
19:2	3217-27	1	Nut-Hex
19:3	105-9264	4	Bulb And Lamp ASM
20	98-9308	1	Gauge-Temperature
20:1	3254-1	3	Washer-Lock, Int
20:2	3217-27	3	Nut-Hex
20:3	105-9265	1	Bulb And Lamp ASM
21	100-8072	1	Switch
22	104-2541	1	Switch-Key
22:1	218-461	1	Nut-HH
22:2	3254-5	1	Washer-Tooth
23	63-8360	1	Key-Ignition
24	43-3990	1	Control-Throttle
24:1	233-35	1	Knob
25	3290-134	2	Screw
26	3296-12	2	Nut-Lock
27	105-0002-01	1	Bracket-Relay
28	70-1480	4	Relay
29	107-9097	1	Glow Controller
30	37-2690	1	Capacitor
30:1	3252-18	2	Screw
30:2	3254-1	2	Washer-Lock, Int
31	2412-74	1	R-Clamp
32	321-4	5	Screw-HH



Brake Pedal Assembly

Ref	Part No.	Qty.	Description
1	93-8742	1	Footpad-Brake
2	27-8550-01	1	Parking Brake Pedal ASM
3	27-7510	1	RH Brake Pedal ASM
3:1	256-10	2	Bushing-Flange
4	27-7490	1	LH Brake Pedal ASM
4:1	256-10	2	Bushing-Flange
5	3296-2	2	Nut-Lock
6	3256-51	4	Washer-Flat
7	256-156	4	Bushing-Flange
8	27-9270-01	1	Mount-Brake
9	3272-5	2	Pin-Cotter
10	105-0065	1	Parking Brake Shaft ASM
11	32149-2	1	Nut-Keps
12	3272-6	2	Pin-Cotter
13	105-0064	1	Spacer-Switch
14	100-1270	1	Switch-Proximity
15	3290-360	2	Screw-HH
16	3253-21	2	Washer-Lock
17	323-13	1	Screw-HH
18	323-14	1	Screw-HH
19	3274-47	1	Screw-HSFH
20	3231-21	2	Screw-CARR
21	32153-2	2	Nut-Lock, Side
22	3217-7	2	Nut-Hex

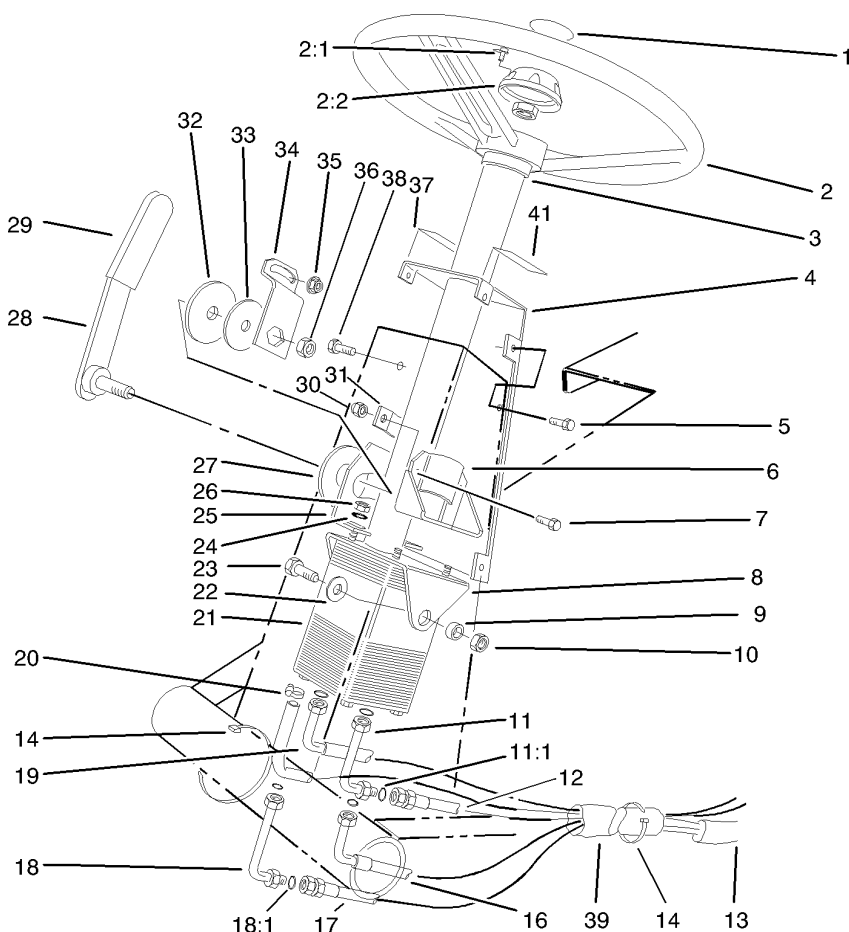
Ref	Part No.	Qty.	Description
23	93-8743	2	Footpad-Turn
24	302-5	2	Fitting-Grease
25	105-0066-01	1	Brake Pedal Mount ASM



Traction Pedal Assembly

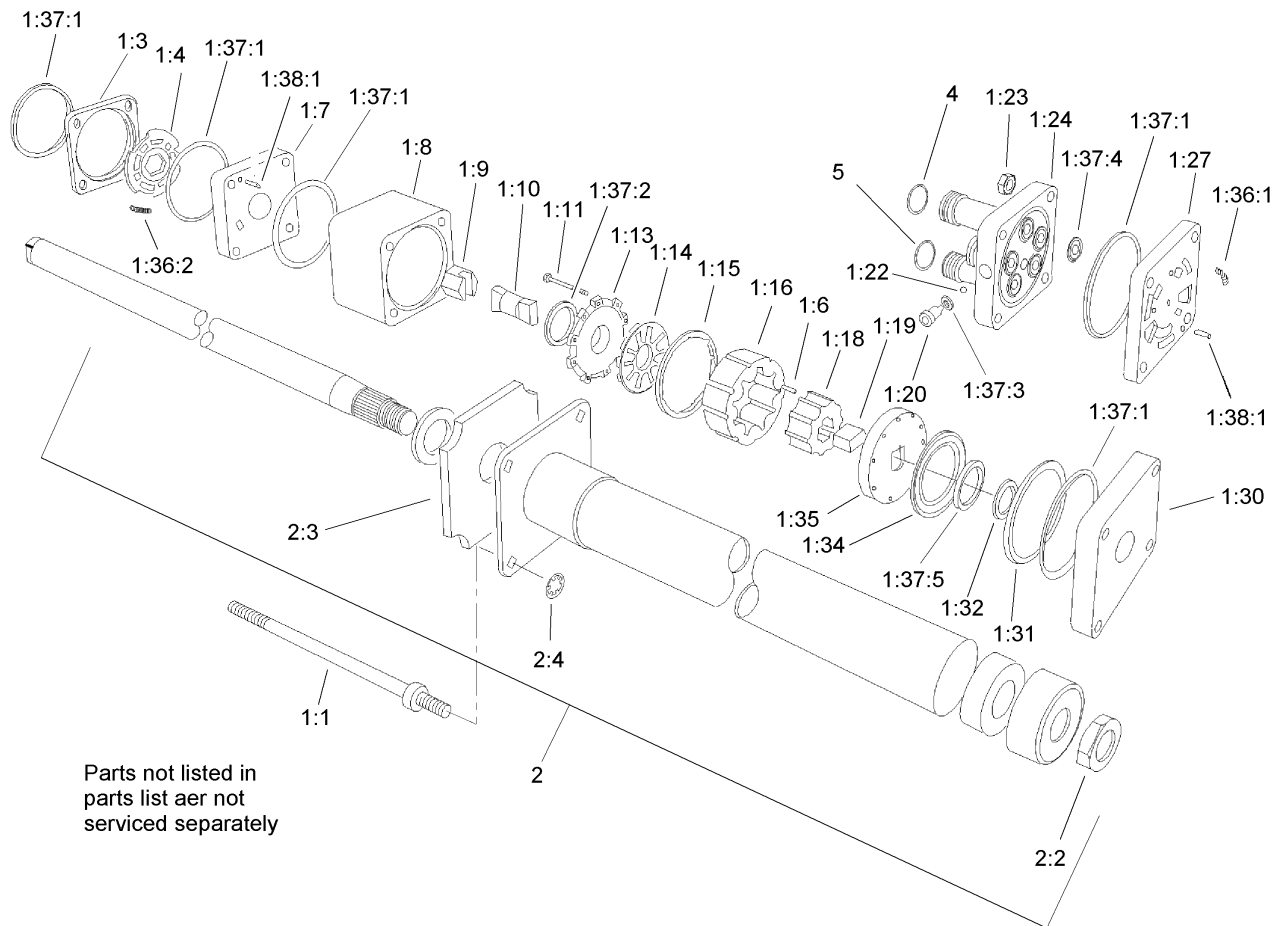
Ref	Part No.	Qty.	Description
1	95-1821-03	1	Spring-Compression
2	3272-5	1	Pin-Cotter
3	3256-22	1	Washer-Flat
4	21-2850-01	1	Mount-Pedal, RH
5	3218-5	2	Nut-Jam
6	3256-26	1	Washer-Flat
8	233-17	1	Knob
9	82-8670	1	Rod-Latch, Brake
10	94-3307	1	Pad-Pedal, Traction
11	323-15	1	Screw-HH
12	88-1720	1	Pad-Footrest
13	32128-43	2	Nut-Flange
14	11-0590	2	Screw-HWHTF
15	3230-1	2	Bolt-CARR
16	88-1710-01	1	Footrest ASM
17	88-1680-01	1	Bracket-Footrest
18	3220-5	1	Nut-Jam
19	21-0141	1	RH Ball Joint ASM
20	3220-3	2	Nut-Jam
21	32128-20	2	Nut-HF
22	32121-6	1	Pin-Roll, Slotted
23	28-5220	1	Friction Wheel ASM
24	3272-6	4	Pin-Cotter
25	88-1650	1	Shaft-Pedal, Traction

Ref	Part No.	Qty.	Description
26	88-1640	1	Pin-Pedal, Traction
27	108-1380	1	LH Brake Cable ASM
28	108-1379	1	RH Brake Cable ASM
29	283-58	2	Pin-Clevis
30	3-7243	2	Spring-Extension
31	88-1670	1	Pivot Bracket ASM
31:1	256-156	2	Bushing-Flange
32	88-0470	1	Tube-Spacer, Pedal
33	23-2270	1	Bushing-Rubber
34	23-2240-03	1	Pump Control Tube ASM
35	94-3304-01	1	Support-Pedal
36	94-3308	1	Pad-Pedal, Traction



Power Steering Assembly

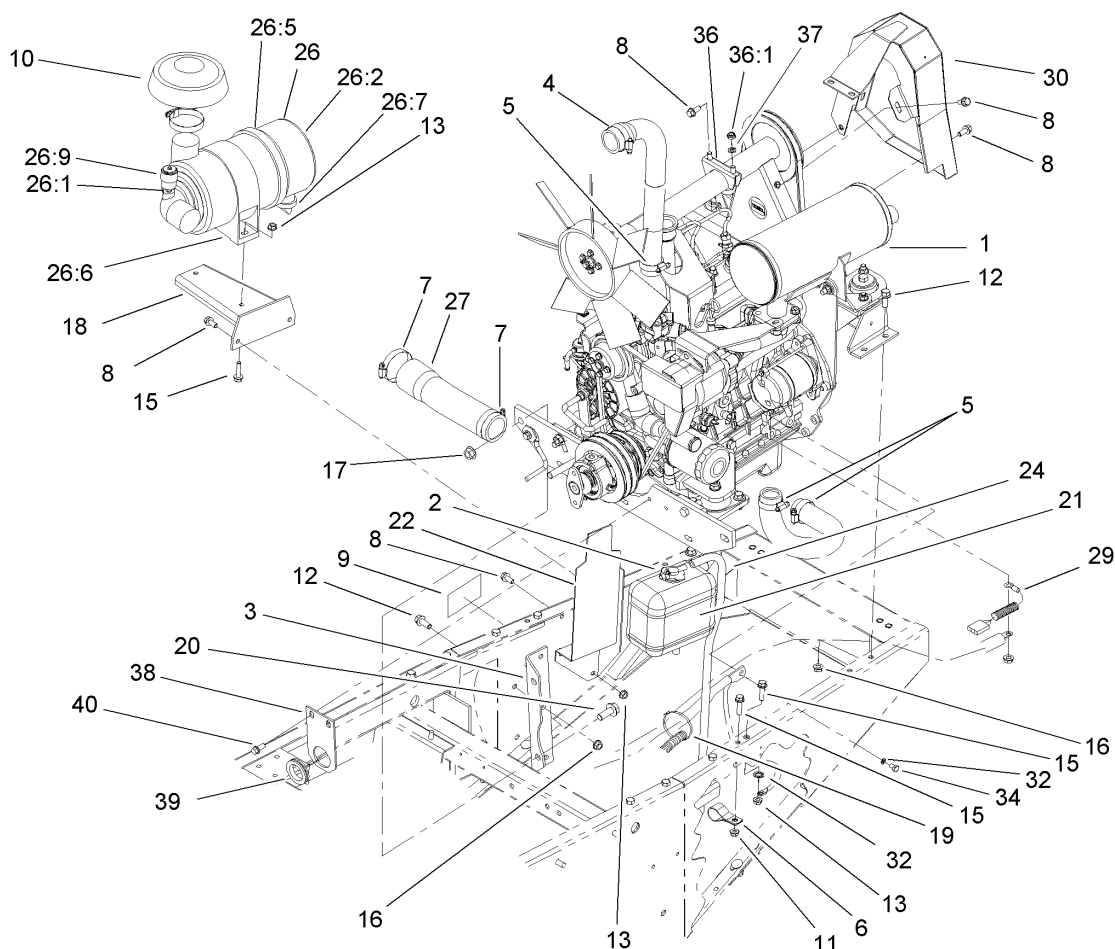
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	68-5370	1	Decal	22	3256-46	2	Washer-Flat
2	75-0560	1	Wheel-Steering	23	323-6	2	Screw-HH
2:1	32144-21	1	Screw	24	3256-3	4	Washer-Flat
2:2	68-5140	1	Cap-Wheel, Steering	25	80-2940-03	1	Plate-Pivot
3	21-9260	1	Cover-Dust	26	3296-20	4	Nut-Lock, NI
4	82-8660-01	1	Cover-Tower	27	31-0390	1	Disc-Friction
5	32144-10	6	Screw-HWH	28	93-1353-03	1	Lever-Steering, Tilt
6	67-8690-03	1	Support-Column	29	21-1880	2	Grip-Handle
7	322-5	2	Screw-HH	30	3296-29	2	Nut-Lock, NI
8	77-3120-01	1	Bracket-Mounting, Column	31	82-8650	1	Clamp-Column
9	80-2960	2	Spacer-Tower	32	82-9010	1	Disc-Friction
10	3296-39	2	Nut-Lock, NI	33	80-2930	1	Washer-Flat
11	82-8760	1	Elbow-HYD	34	80-2880	1	Bracket-Tilt
11:1	237-30	1	O-Ring	35	32128-20	1	Nut-HF
12	63-8970	1	Hose-HYD	36	3218-7	1	Nut-Jam
13	70-1390	1	Sleeve-Protective	37	82-8940	1	Decal-Steering, Tilt
14	3290-379	4	Tie-Cable	38	322-4	1	Screw-HH
16	68-9730	1	Hose-Steering, HYD	39	70-1380	1	Sleeve-Protective
17	68-9720	1	Hose-Steering, HYD	41	93-7831	1	Decal-Brake, Parking
18	82-8770	1	Elbow-HYD				
18:1	237-22	1	O-Ring				
19	63-8980	1	Hose-HYD				
20	2412-36	1	Clamp-Hose				
21	108-6557	1	Steer Valve And Column ASM				



Power Steering Unit Assembly No. 108-6557

Ref	Part No.	Qty.	Description
1:1	92-7310	4	Bolt-Special
②1:3		1	Ring-Valve
②1:4		1	Plate-Valve
②1:6		9	Pin-Alignment
②1:7		1	Manifold-Isolation
②1:8		1	Ring-Metering
②1:9		1	Hex Drive ASM
②1:10		1	Link-Drive
②1:11		11	Screw-HSH
②1:13		1	Cover-Commutator
②1:14		1	Commutator
②1:15		1	Ring-Commutator
②1:16		1	Stator
②1:18		1	Rotor
②1:19		1	Spacer-Link, Drive
②1:20		1	Plug
②1:22		1	Ball
②1:23		4	Nut-Hex
②1:24		1	Cover-Port
②1:27		1	Manifold-Port
②1:30		1	Plate-Cover, Upper
②1:31		1	Spacer-Bearing, Thrust
②1:32		1	Spacer-Seal
②1:34		1	Bearing-Thrust
②1:35		1	Plate-Drive

Ref	Part No.	Qty.	Description
①1:36	66-9970	1	Spring Kit
②1:36:1		3	Spring
②1:36:2		3	Spring
①1:37	66-9980	1	Seal Kit
②1:37:1		5	Ring-Seal
②1:37:2		1	Seal-Commutator
②1:37:3		1	O-Ring
②1:37:4		5	O-Ring
②1:37:5		1	Seal-Face
①1:38	66-9990	1	Needle Roller Kit
②1:38:1		9	Pin-Alignment
2	108-6560	1	Column ASM
2:2	3220-6	1	Nut-Jam
2:3	92-7317	1	Seal-Foam, Upper Cover
2:4	92-7316	4	Nut-Push On
4	237-30	2	O-Ring
5	237-22	2	O-Ring

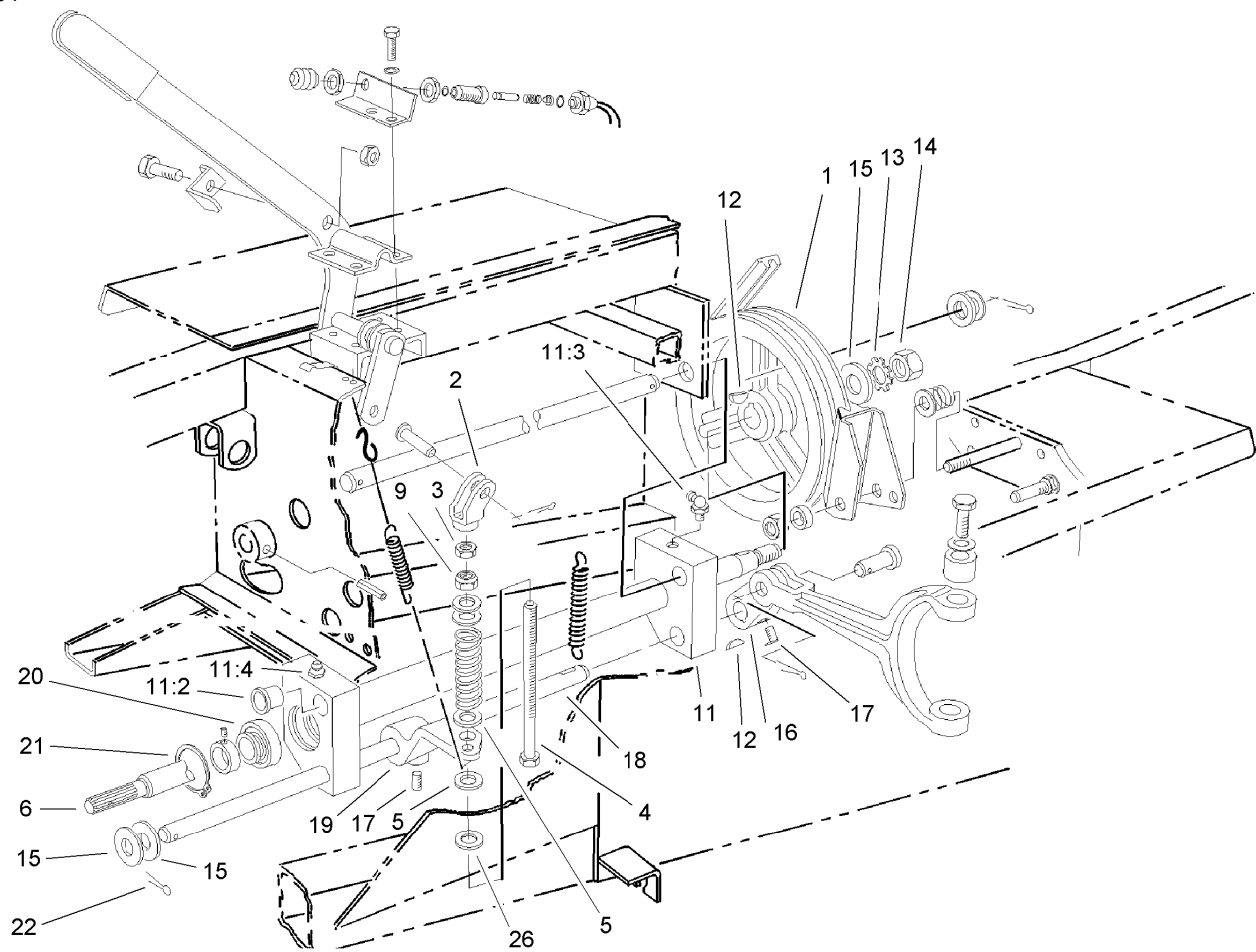


Engine Installation Assembly

Ref	Part No.	Qty.	Description
② 1		1	Engine ASM
2	2412-108	2	Clamp-Worm
3	67-8190-01	2	Bracket-Support, Engine
4	2412-3	1	Clamp-Hose
5	2412-111	3	Clamp
6	98-3883	1	Clamp-Wire
7	2412-130	2	Clamp-Hose
8	3234-5	9	Screw-HHF
9	93-7275	1	Decal-Fluid, Starting
10	105-2539	1	Cap ASM
11	104-8300	1	Nut-Flange, NI
12	3234-11	10	Screw-HHF
13	32128-20	6	Nut-HF
15	3234-36	4	Screw-HHF
16	3290-357	10	Nut-HHF
17	32128-23	2	Nut-HF
18	98-4518-03	1	Bracket-Cleaner, Air
19	3290-378	1	Tie-Cable
20	3234-32	2	Screw-HHF
21	104-9318	1	Bottle-Overflow
22	105-0050-03	1	Reservoir Bracket ASM
24	63-7630	1	Hose-Fuel
26	104-3428	1	Air Cleaner ASM
26:1	105-4292	1	Nipple-Pipe

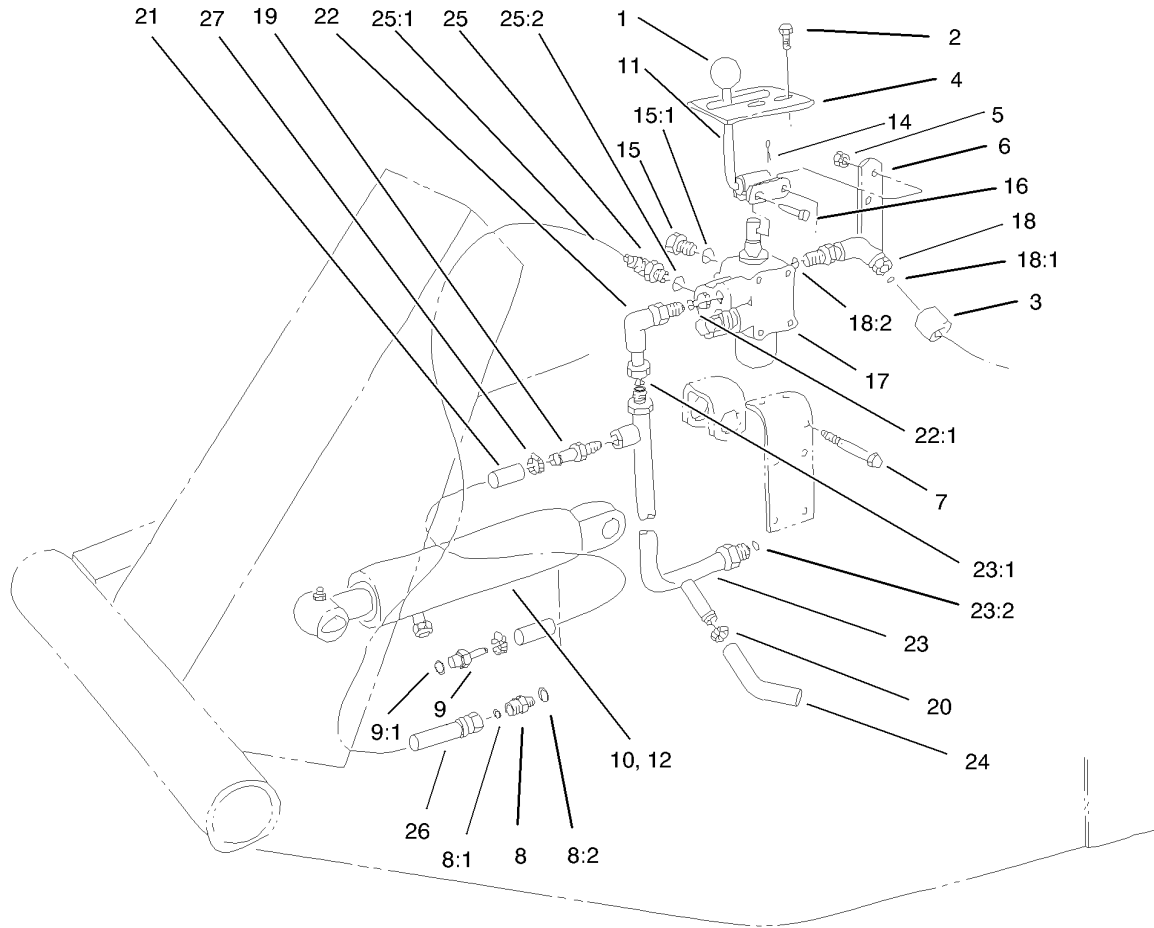
Ref	Part No.	Qty.	Description
26:2	104-0497	1	Cover ASM
26:5	104-4897	1	Gasket
26:6	98-4525	1	Bracket-Cleaner, Air
26:7	104-0498	1	Valve-Vacuator
① 26:8	108-3810	1	Filter-Air
26:9	93-9164	1	Indicator-Mini
27	104-3434	1	Hose-Inlet, Air
29	99-3441	1	Harness-Wire, Fusible Link
30	105-7807-03	1	Guard-Belt, Fan
32	3254-6	2	Washer-Lock, Internal
34	70-8470	1	Screw-HH
36	2112-6	1	Clamp-Muffler
36:1	3218-2	2	Nut-Jam
37	3253-4	2	Washer-Lock
38	104-3774-03	1	Bracket-Bulkhead
39	240-7	1	Grommet-Rubber
40	32144-11	2	Screw-HWHTF

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Power-Take-Off Assembly

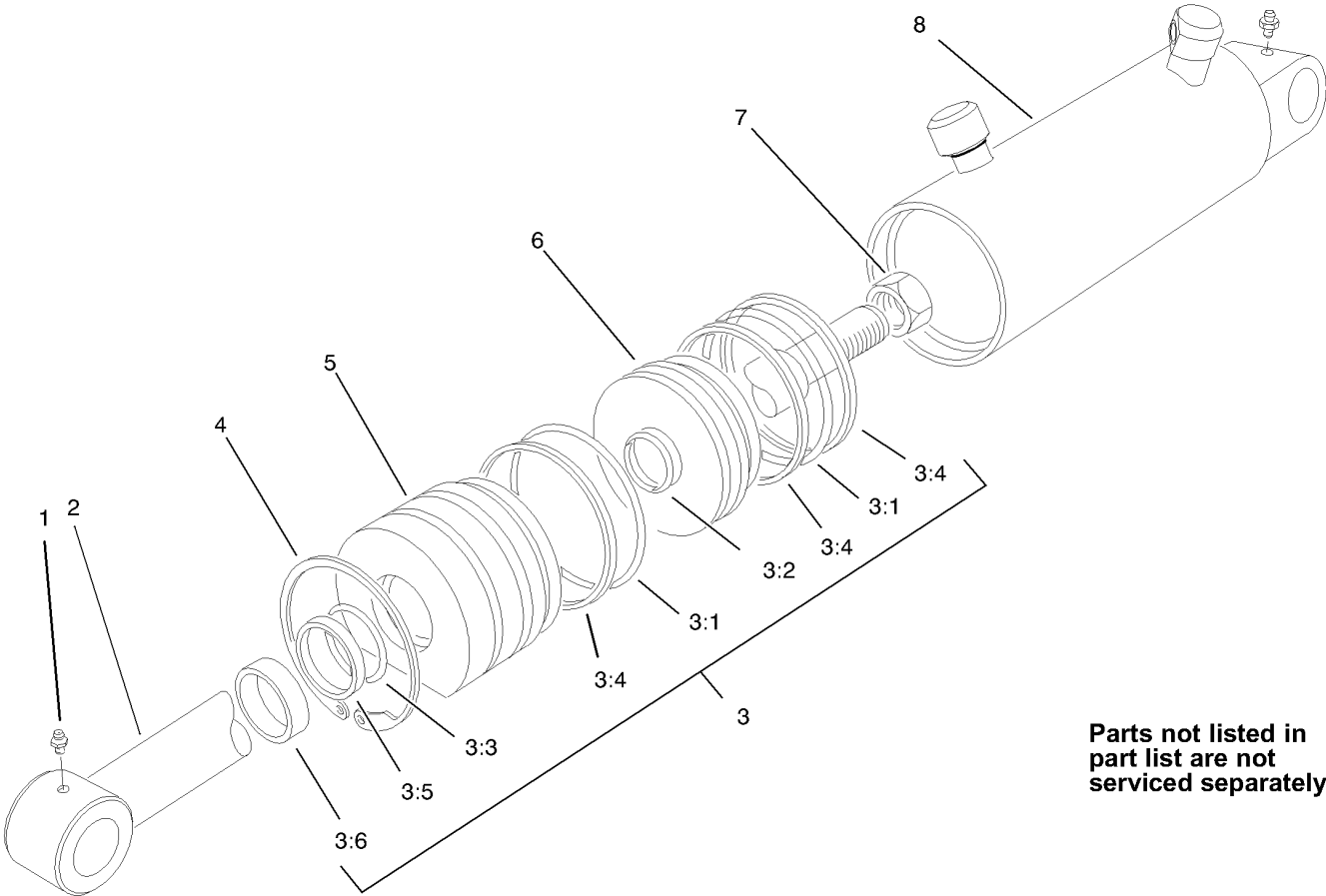
Ref	Part No.	Qty.	Description				
1	21-0230	1	Pulley-PTO				
2	43-5630	1	Yoke-PTO				
3	3219-3	1	Nut-Hex				
4	27-7900	1	Screw-Adjusting				
5	3256-41	4	Washer-Flat				
6	43-5540	1	Shaft-PTO				
9	3296-6	1	Nut-Lock				
11	100-6599	1	PTO Pivot ASM				
11:2	256-113	4	Bushing-Flange				
11:3	302-10	1	Fitting-Grease				
11:4	302-2	1	Fitting-Grease				
12	3257-5	3	Key-Woodruff				
13	3254-7	1	Washer-Lock, Int				
14	3219-7	1	Nut-Hex				
15	3256-28	3	Washer-Flat				
16	92-4058	1	Arm-PTO				
17	3246-3	4	Screw-HS				
18	43-5550	1	Shaft-Actuator, PTO				
19	43-5570	1	Arm-Actuator				
20	251-252	2	Bearing				
21	32120-22	2	Ring-Snap, Internal				
22	3272-22	1	Pin-Cotter				
26	5-0652	1	Spacer				



Valve and Cylinder Assembly

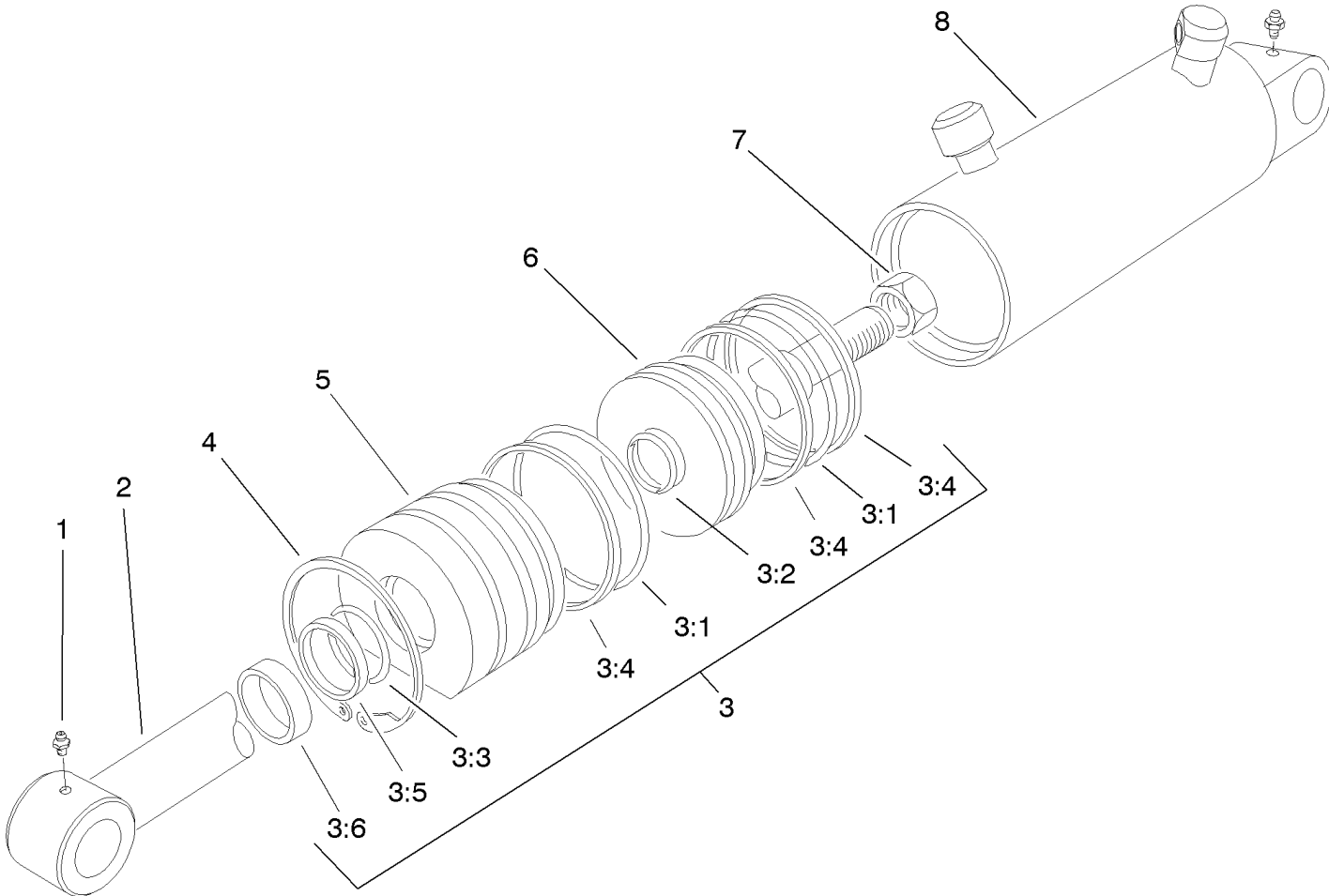
Ref	Part No.	Qty.	Description
1	233-21	1	Knob
2	32144-10	2	Screw-HWH
3	38-3400	1	Guard-Rubber
4	105-7806	1	Latch-Lever, Valve
5	3296-42	5	Nut-Lock, NI
6	21-9010	1	Lever-Valve, Pivot Mount
7	321-23	5	Screw-HH
8	340-2	1	Fitting-HYD, Straight
8:1	237-22	1	O-Ring
8:2	237-42	1	O-Ring
9	95-8849	1	Fitting-Straight, HYD
9:1	237-78	1	O-Ring
10	100-6586	1	Cylinder-HYD, 2.5In
11	105-7839-03	1	Valve Lever ASM
12	100-6591	1	Cylinder-HYD, 3In
14	3272-6	1	Pin-Cotter
15	353-512	1	Plug
15:1	237-78	1	O-Ring
16	283-17	1	Pin-Clevis
17	106-8071-01	1	Valve ASM
18	340-99	1	Fitting-HYD-90
18:1	237-30	1	O-Ring
18:2	237-42	1	O-Ring
19	304-73	1	Connector-Hose

Ref	Part No.	Qty.	Description
20	2412-36	1	Clamp-Hose
21	92-7834	1	Hose
22	340-110	1	Fitting-Swivel, 90 DEG
22:1	237-42	1	O-Ring
23	63-9260	1	Manifold-Valve
23:1	237-22	1	O-Ring
23:2	237-30	1	O-Ring
24	63-8990	1	Hose-Out/Cool
25	340-97	1	Fitting-HYD, 90 DEG
25:1	237-22	1	O-Ring
25:2	237-78	1	O-Ring
26	92-7833	1	Hose ASM
27	2412-108	2	Clamp-Worm



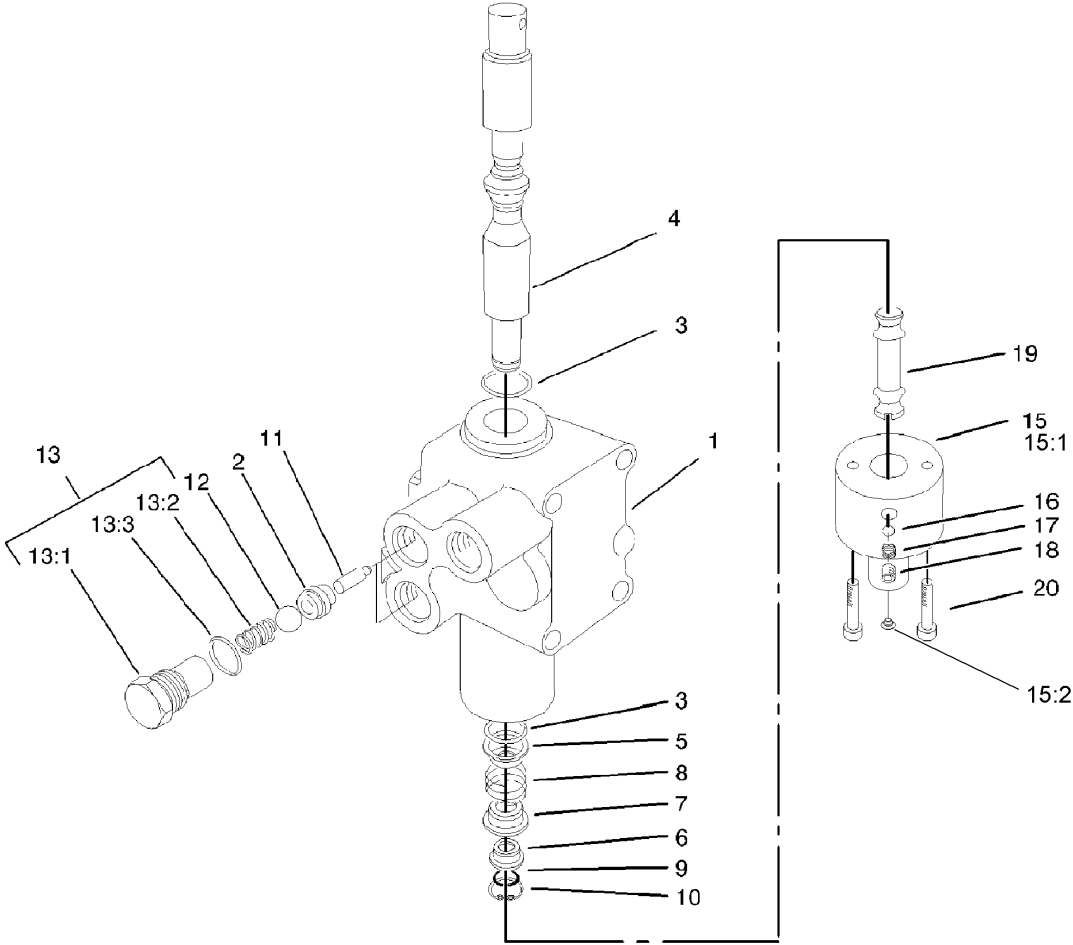
Hydraulic Cylinder Assembly No. 100-6586 (2-1/2in Bore)

Ref	Part No.	Qty.	Description				
1	302-55	2	Fitting-Grease				
2		1	Shaft				
3	61-4960	1	Seal Kit				
3:1		2	O-Ring				
3:2		1	O-Ring				
3:3		1	O-Ring				
3:4		3	Backup				
3:5		1	Backup				
3:6		1	Seal-Dust				
4	61-4990	1	Ring-Retaining				
5		1	Head				
6		1	Piston				
7		1	Nut				
8		1	Barrel				



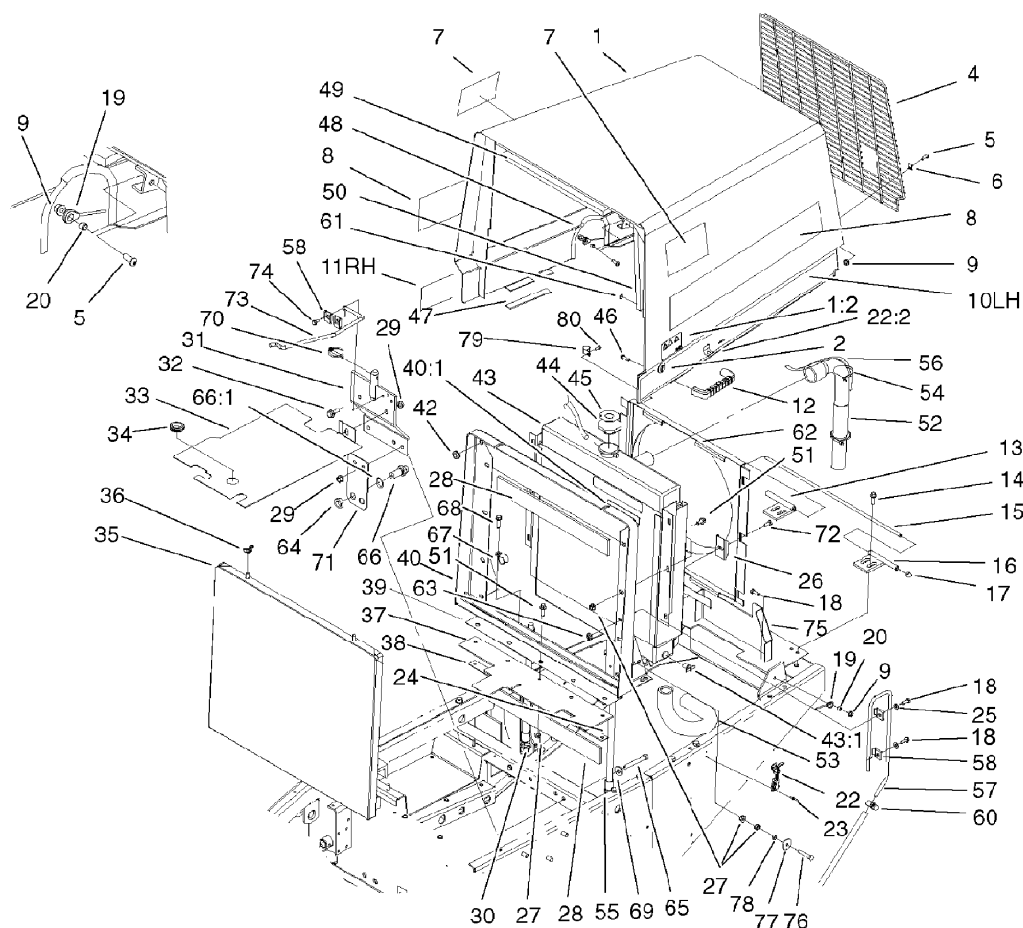
**Hydraulic Cylinder Assembly No. 100-6591 (3in Bore)
(Optional)**

Ref	Part No.	Qty.	Description				
1	302-55	2	Fitting-Grease				
2		1	Shaft				
3	67-5500	1	Seal Kit				
3:1		2	O-Ring				
3:2		1	O-Ring				
3:3		1	O-Ring				
3:4		3	Backup				
3:5		1	Backup				
3:6		1	Seal-Dust				
4	67-5470	1	Ring-Snap				
5		1	Head				
6		1	Piston				
7		1	Nut				
8		1	Barrel				



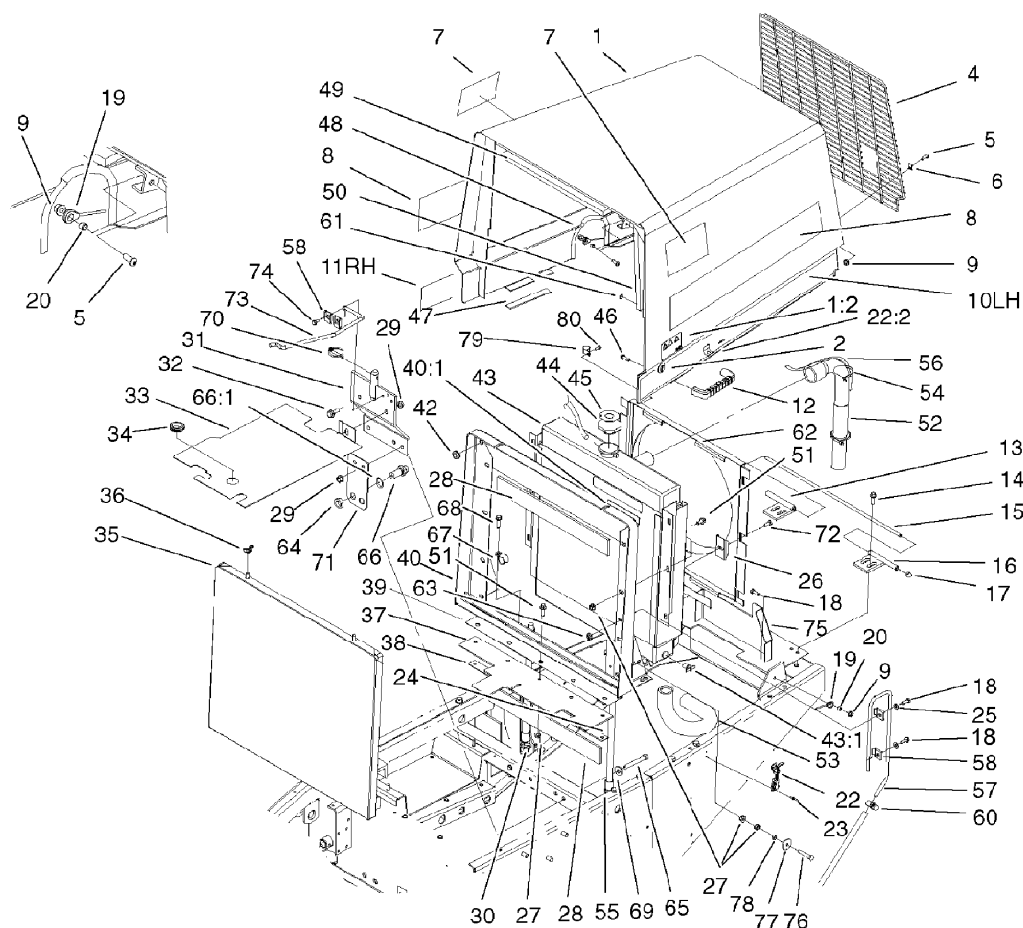
Valve Assembly No. 106-8071-01

Ref	Part No.	Qty.	Description				
1		1	Body				
2	22-8370	2	Seat-Valve				
3	22-8500	2	O-Ring				
4	105-7826	1	Spool				
5	22-8380	1	Retainer				
6	22-8400	1	Spacer				
7	22-8390	1	Retainer				
8	22-8410	1	Spring				
9	22-8480	1	Ring-Snap				
10	22-8490	1	Ring-Snap				
11	22-8360	2	Pin				
12	22-8350	2	Ball				
13	105-7827	2	Plug ASM				
13:1	22-8330	1	Plug				
13:2	22-8340	1	Spring				
13:3	237-42	1	O-Ring				
15	106-8070	1	Detent Barrel ASM				
15:1		1	Barrel-Detent				
15:2	106-8068	1	Plug-Dust				
16	105-7829	2	Ball-Steel				
17	105-7830	2	Spring				
18	105-7831	2	Screw-Set				
19	105-7832	1	Stud-Detent				
20	105-7833	2	Screw-HS				



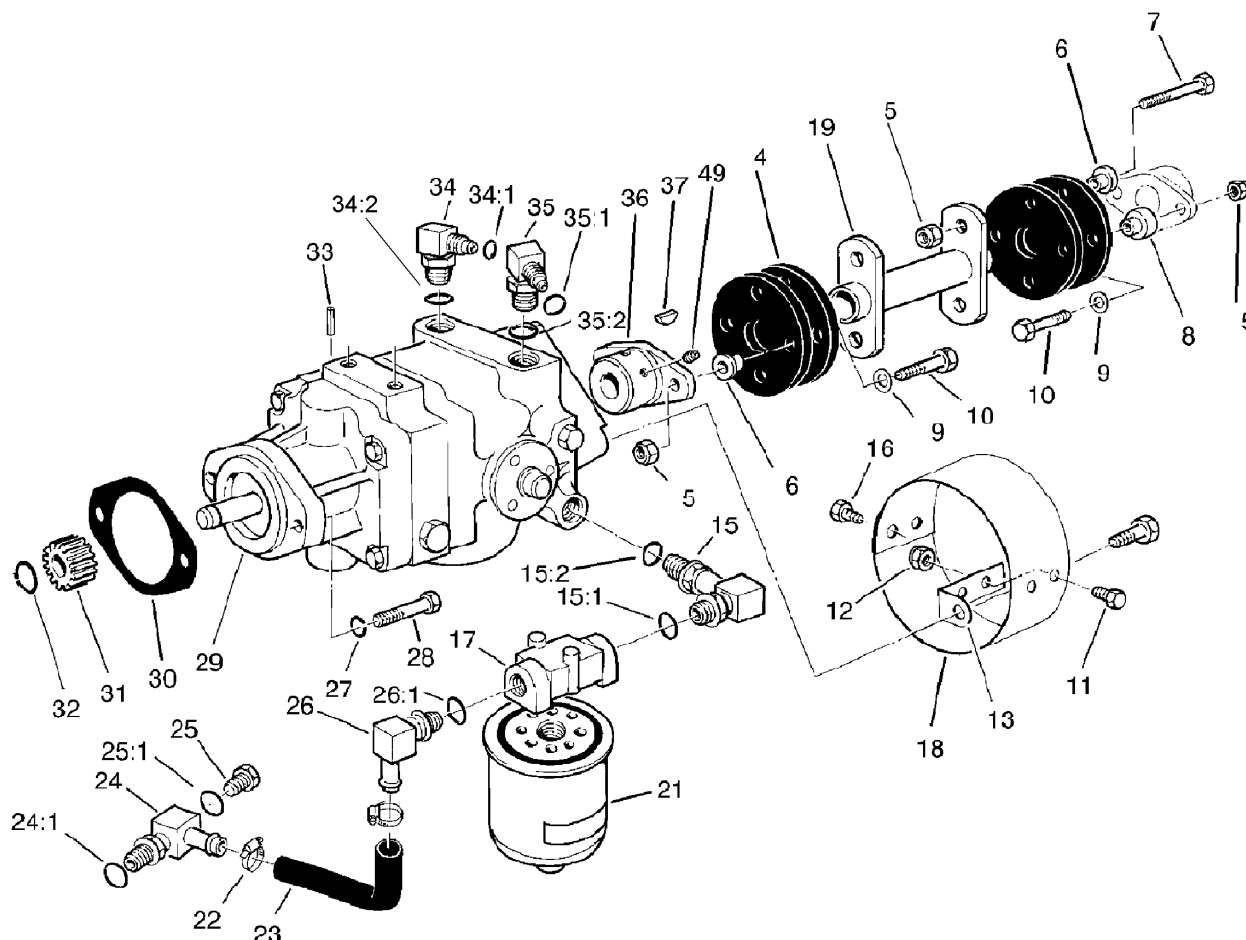
Radiator and Hood Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	105-4282	1	Hood	25	3256-22	2	Washer-Flat
1:2	106-6754	1	Decal-Danger	26	105-0012-03	6	Clip-Mounting, Fan Shroud
2	98-5398	1	Latch	27	32128-20	15	Nut-HF
4	105-0059-03	1	Hood-Screen, Rear	28	43-3320	2	Foam-Radiator
5	3274-69	6	Screw-HSBH	29	32128-21	4	Nut-HF
6	2412-127	4	Clamp-R	30	63-8960	1	Hose
7	66-6140	2	Decal	31	105-2542-01	1	Bracket-Support, Seat
8	106-4394	2	Decal	32	3234-11	1	Screw-HHF
9	32128-32	8	Nut-HHF	33	105-2544-01	1	Plate-Sealing
10	77-5141	1	Decal-Hood, LH	34	240-5	1	Grommet
11	77-5151	1	Decal-Hood, RH	35	67-9030-03	1	Grille ASM
12	65-5100	1	Handle-Door	36	32103-2	2	Nut-Wing
13	67-8820-01	1	RH Hinge ASM	37	67-8570	1	Strip-Sealing
14	3234-17	4	Screw-HHF	38	67-8470-03	1	Strip-Retainer
15	67-8840	1	Hinge-Rod	39	105-4264-03	1	Grill-Plate, Sealing
16	67-8810-01	1	LH Hinge ASM	40	105-4293	1	Radiator Support ASM
17	32111-8	2	Nut-Lock, Cap	40:1	93-7272	3	Decal-Warning
18	321-4	4	Screw-HH	42	237-141	2	Grommet-Rubber
19	77-3170	2	Cable-Hood	43	108-8699	1	Radiator Assembly
20	77-5250	4	Spacer-Cable, Hood	43:1	304-46	1	Draincock
22	59-9740	1	Flex Draw Latch ASM	44	66-3240	1	Cap-Radiator
22:2	249-40	1	Keeper	45	106-5976	1	Decal-Warning
23	3290-55	4	Rivet-Pop	46	46-8091	2	Screw-HWH
24	63-9010	1	Hose-Coolant, Transmission	47	82-8950	2	Foam



Radiator and Hood Assembly (continued)

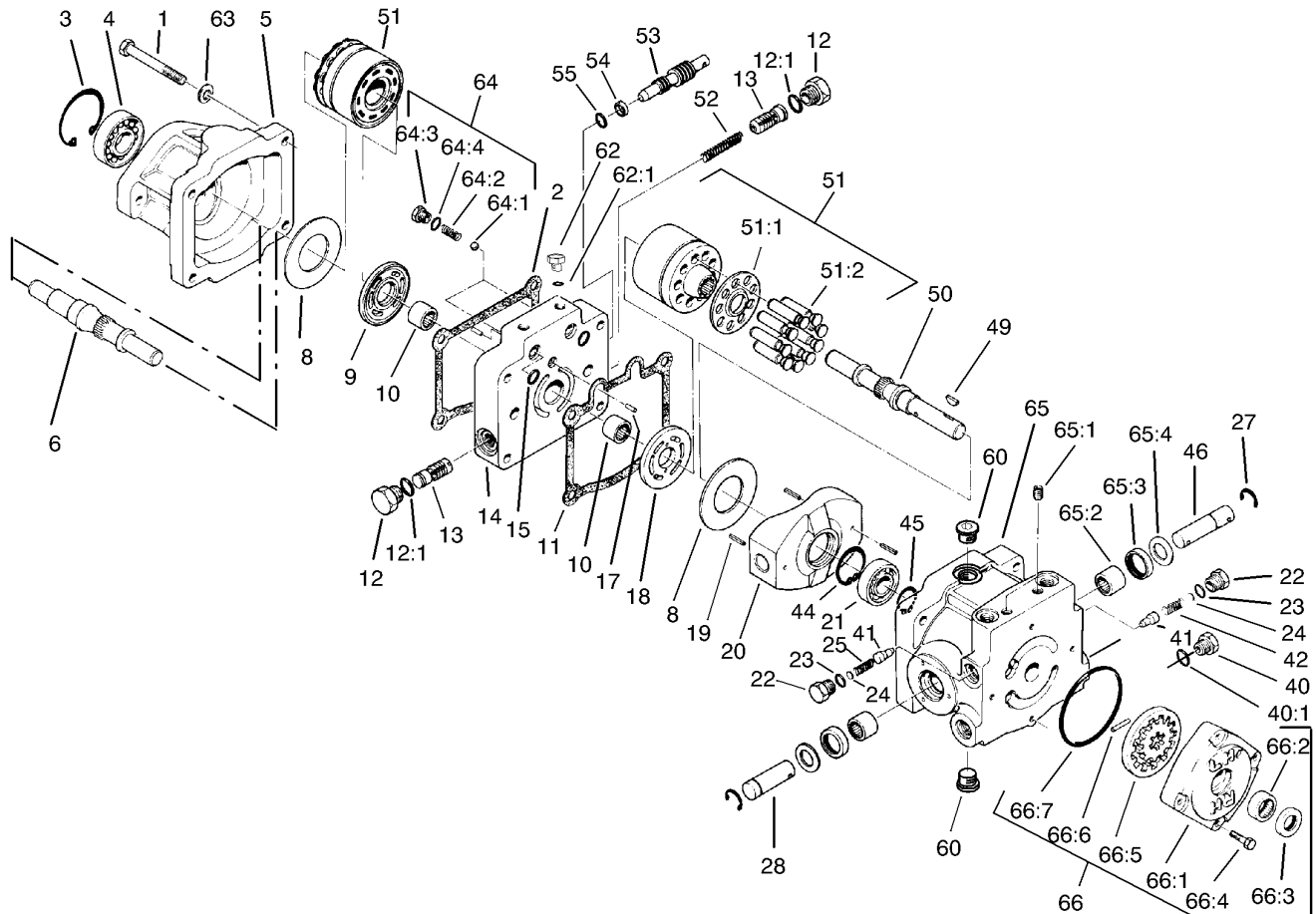
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
48	66-8111	1	Trim-Hood	72	3234-33	6	Screw-HHF
49	77-5170	1	Foam-Top	73	86-7040	1	Rod-Prop, Seat
50	77-5160	1	Foam-Side, LH	74	32144-10	2	Screw-HWH
51	3234-14	13	Screw-HHF	75	105-4255-01	1	Pulley Guard ASM
52	104-3433	1	Hose-Radiator, Top	76	322-41	1	Screw-HH
53	104-3432	1	Hose-Radiator, Bottom	77	3256-57	1	Washer-Flat
54	3290-379	6	Tie-Cable	78	3296-47	1	Nut-Lock, NI
55	38-3400	1	Guard-Rubber	79	2412-83	1	Clamp-Cable
56	104-0076	1	Hose-Fuel	80	32144-1	1	Screw-Taptite
57	105-4265	1	Tube-Vent				
58	3-6657	4	Clip-Skid				
60	2412-108	1	Clamp-Worm				
61	3269-10	2	Washer-Back				
62	105-0007-03	1	Fan Shroud ASM				
63	32128-33	1	Nut-HF				
64	340-70	2	Nut-Lock				
65	323-14	3	Screw-HH				
66	340-71	2	Fitting-Straight, Bulkhead				
66:1	237-22	2	O-Ring				
67	2412-4	1	Clamp				
68	11-0590	1	Screw-HWHTF				
69	5-0838	3	Washer				
70	283-76	1	Pin-Lynch				
71	68-9160	1	Bracket				



Transmission Assembly

Ref	Part No.	Qty.	Description
4	44-2230	4	Coupling-Rubber
5	32152-1	8	Nut-Lock, Cone
6	71-4411	4	Spacer
7	322-8	4	Screw-HH
8	71-4410	4	Spacer
9	3256-3	4	Washer-Flat
10	322-10	4	Screw-HH
11	321-2	2	Screw-HH
12	3296-42	4	Nut-Lock, NI
13	54-9290	2	Bracket-Mounting
15	68-8660	1	Fitting-HYD, 90 DEG
15:1	237-80	1	O-Ring
15:2	237-81	1	O-Ring
16	321-4	2	Screw-HH
17	68-8990	1	Filter Head ASM
18	54-9300-03	1	Cover-Shaft, Pump
19	105-0033-03	1	Drive Shaft ASM
21	23-9740	1	Filter-Oil
22	2412-34	2	Clamp-Hose
23	68-9650	1	Hose-Axle
24	70-2620	1	Fitting-HYD, 90 DEG
24:1	237-81	1	O-Ring
25	353-508	1	Plug
25:1	237-42	1	O-Ring

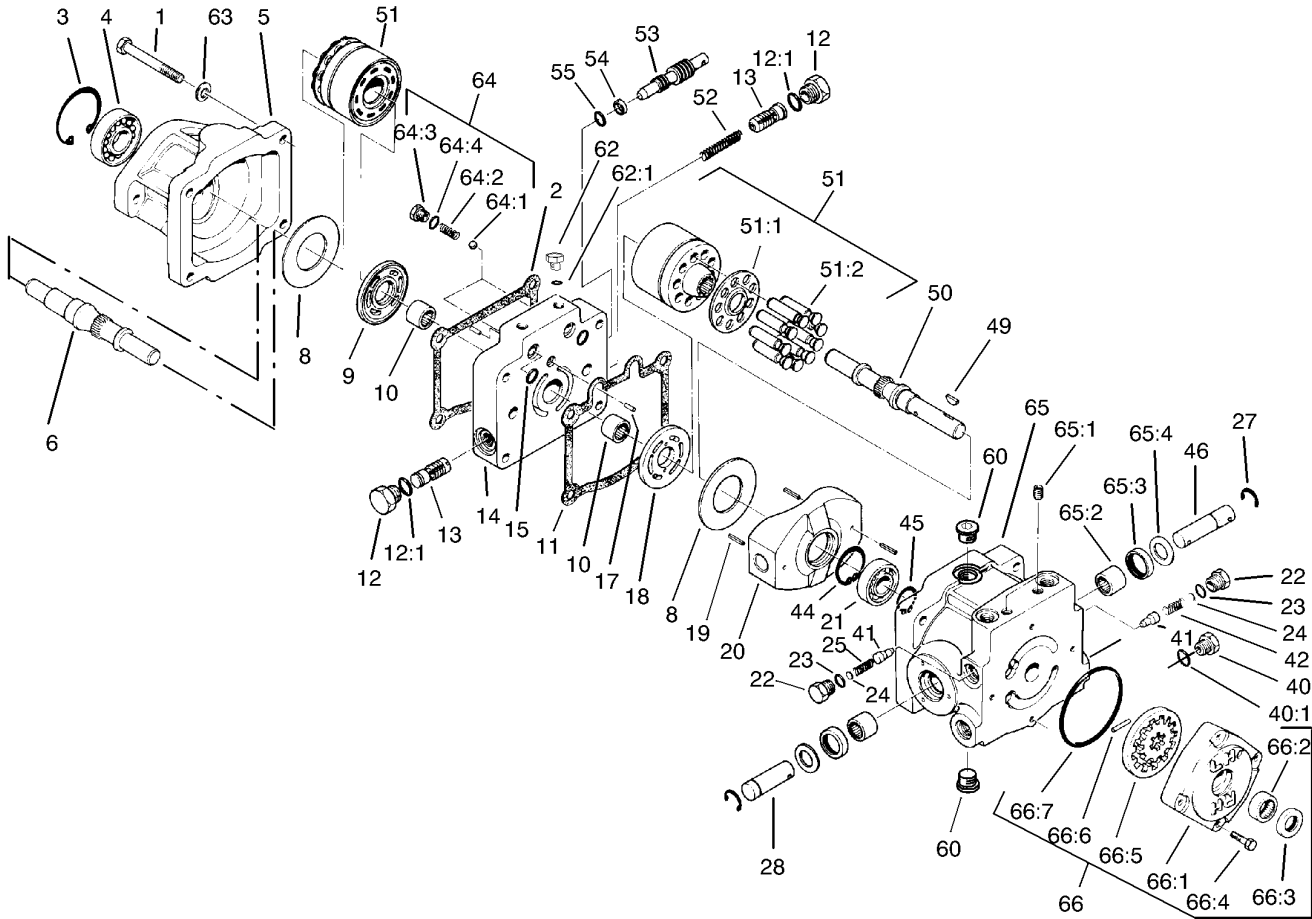
Ref	Part No.	Qty.	Description
26	353-987	1	Fitting-HYD, 90 DEG
26:1	237-81	1	O-Ring
27	3253-21	2	Washer-Lock
28	323-7	2	Screw-HH
29	92-8947	1	Transmission ASM
30	41-8760	1	Gasket
31	86-7220	1	Gear-Pinion
32	32120-72	1	Ring-Snap
33	32121-6	1	Pin-Roll, Slotted
34	340-77	1	Fitting-HYD, 90 DEG
34:1	237-22	1	O-Ring
34:2	237-42	1	O-Ring
35	340-99	1	Fitting-HYD-90
35:1	237-30	1	O-Ring
35:2	237-42	1	O-Ring
36	33-4380	1	Hub-Pump
37	3257-32	1	Key-Woodruff
49	3241-5	2	Screw-Set



Transmission Assembly No. 92-8947

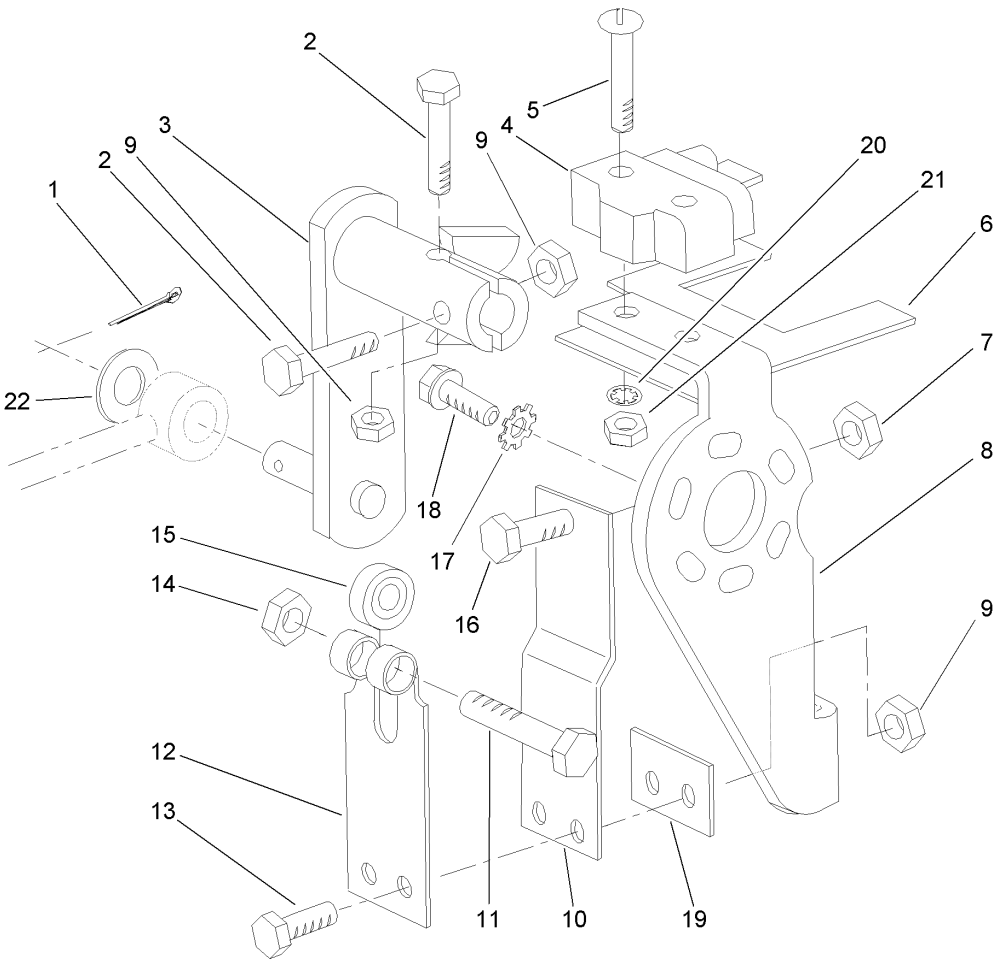
Ref	Part No.	Qty.	Description
1	323-56	4	Screw-HH
2	67-9100	1	Gasket
3	32120-8	1	Ring-Snap
4	72-3750	1	Bearing-Roller
5	67-9080	1	Housing-Motor
6	46-8410	1	Shaft-Motor
8	25-2380	2	Plate-Thrust
9	25-2390	1	Plate-Valve, Motor
10	46-8400	2	Bearing-Shaft
11	25-2400	1	Gasket
12	353-550	2	Plug-HYD, Hex Hd
12:1	237-79	1	O-Ring
13	25-2410	2	Valve ASM
14	92-8918	1	Section-Center
15	93-4132	2	O-Ring
17	25-2430	2	Pin-Dowel
18	25-2440	1	Plate-Valve, Pump
19	32121-91	3	Pin-Spring
20	25-2450	1	Plate-Swash, Variable
21	251-8	1	Bearing-Ball
22	25-2460	2	Plug-HH
23	237-86	4	O-Ring
24	25-2470	2	Pack-Shim
25	25-2480	1	Spring-Valve

Ref	Part No.	Qty.	Description
27	32151-46	2	Ring-Retaining
28	25-2500	1	Shaft-Trunnion
40	353-551	1	Plug-HH
40:1	237-80	1	O-Ring
41	83-7260	2	Cone-Relief, Charge
42	25-2570	1	Spring-Valve
44	32151-75	1	Ring-Retaining
45	32120-15	1	Ring-Snap, EXT
46	25-2580	1	Shaft-Trunnion
49	3257-32	1	Key-Woodruff
50	67-8020	1	Shaft-Pump
51	48-1800	2	Cylinder Block Kit
51:1		1	Retainer-Slipper
51:2		9	Piston ASM
52	25-2610	1	Spring-Valve
53	88-8220	1	Valve-By-Pass
54	25-2630	1	Ring-Back Up
55	237-22	1	O-Ring
60	67-9090	1	Plug
62	92-8776	4	Plug
62:1	92-8777	1	O-Ring
63	93-0312	4	Washer-Hardened
64	99-5689	1	Check Valve ASM
64:1	25-2490	1	Ball



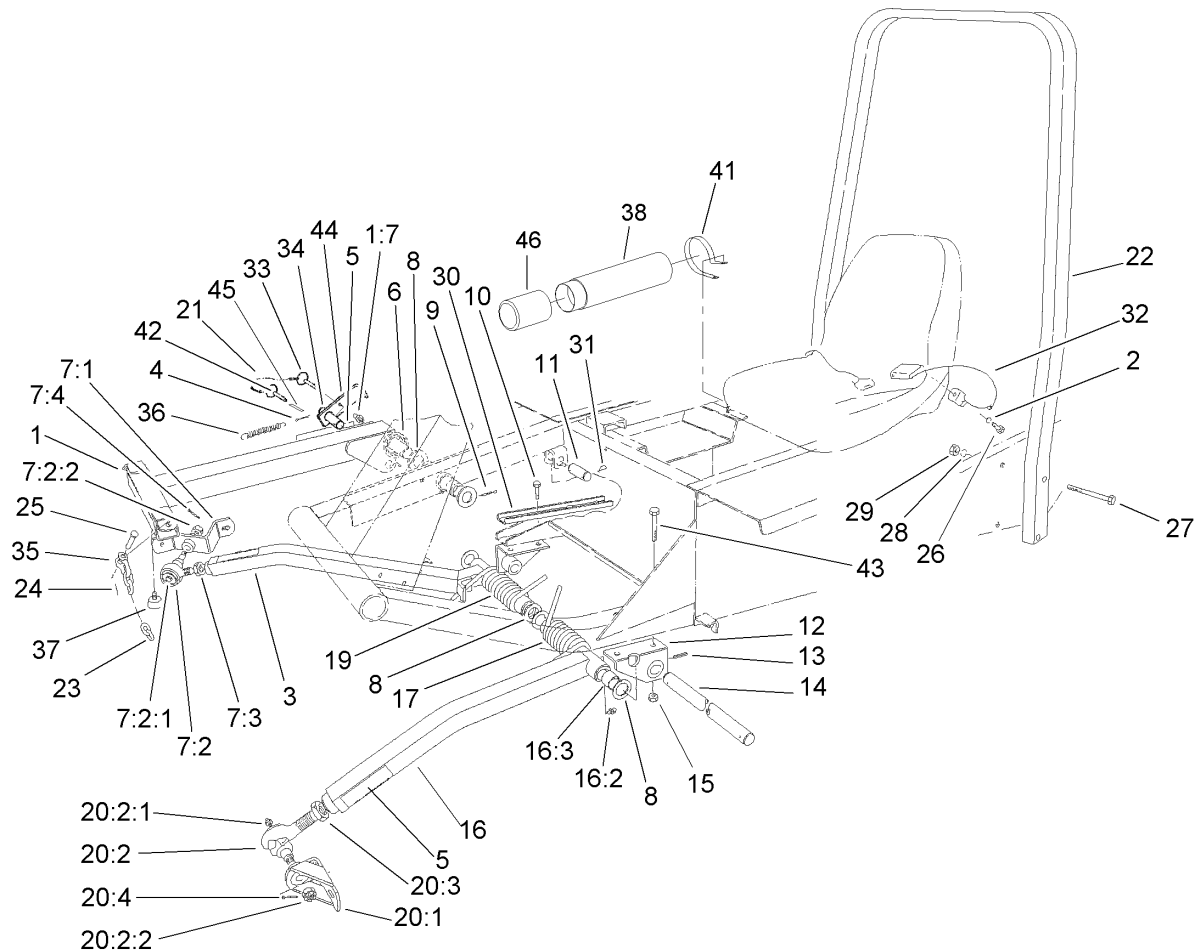
Transmission Assembly No. 92-8947 (continued)

Ref	Part No.	Qty.	Description				
64:2	25-2640	1	Spring-Valve				
64:3	25-2650	1	Plug-Valve, Check				
64:4	237-86	1	O-Ring				
65	54-7890	1	Housing Kit				
65:1	285-17	2	Plug-Pipe				
65:2	252-82	2	Bearing-Needle				
65:3	25-3210	2	Seal-Lip				
65:4	25-2510	2	Washer-Flat				
66	25-3190	1	Charge Pump Kit				
66:1	25-2550	1	Housing-Pump, Charge				
66:2	67-8050	1	Bearing-Needle				
66:3	93-4133	1	Seal-Lip				
66:4	322-4	4	Screw-HH				
66:5	25-2540	1	Gerotor ASM				
66:6	25-2530	1	Pin-Straight, Headless				
66:7	237-95	1	O-Ring				



Neutral Centering Device Assembly

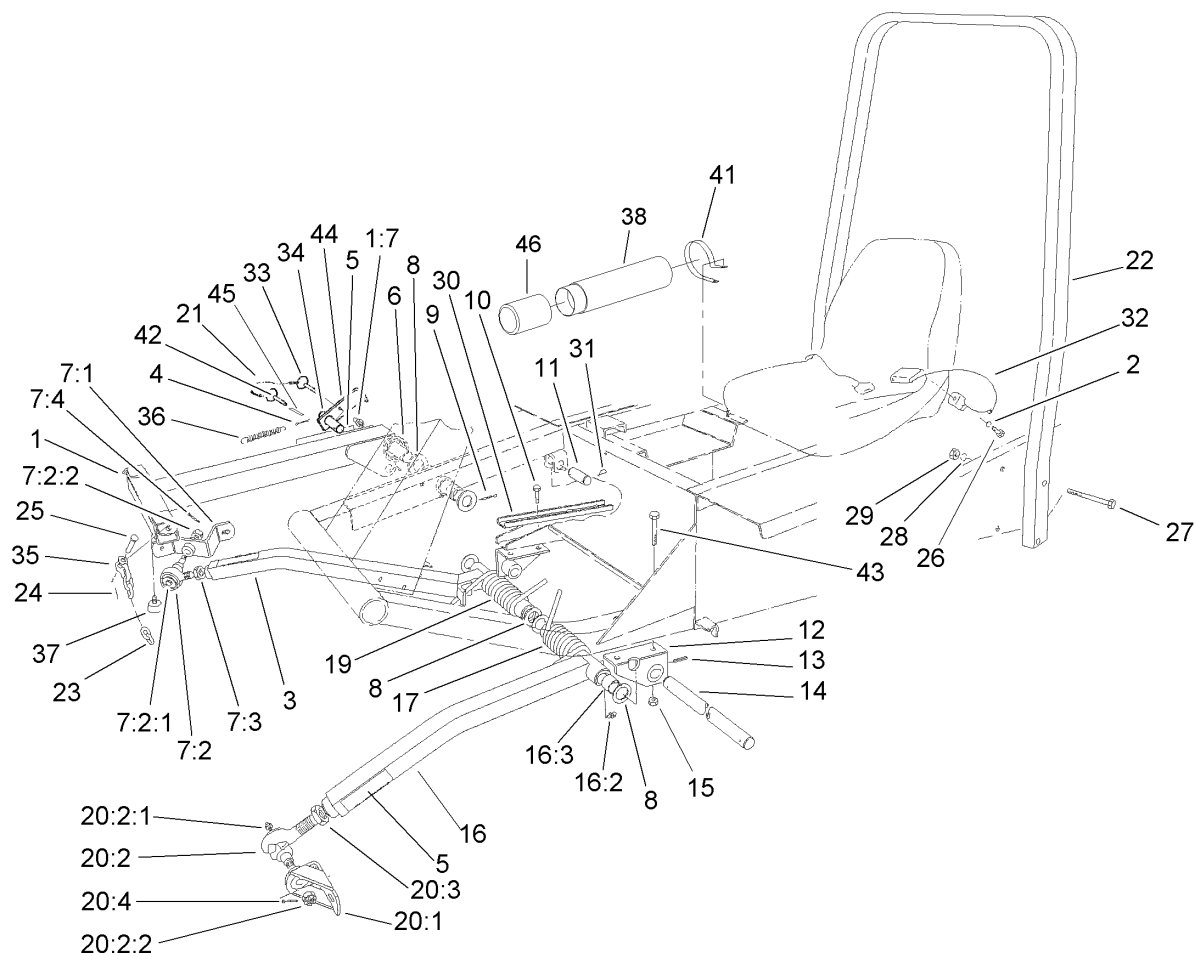
Ref	Part No.	Qty.	Description				
1	3272-10	1	Pin-Cotter				
2	321-9	2	Screw-HH				
3	108-6555-03	1	Pump Lever ASM				
4	29-6163	1	Switch-Micro				
5	3249-11	2	Screw-Machine				
6	46-8810	1	Stop-Leaf Spring				
7	3219-2	1	Nut-Hex				
8	29-6120-03	1	Plate-Pump				
9	3296-42	4	Nut-Lock, NI				
10	29-6170	1	Extended Leaf Spring ASM				
11	322-17	1	Screw-HH				
12	29-6150	1	Spring-Leaf				
13	321-6	2	Screw-HH				
14	3296-29	1	Nut-Lock, NI				
15	251-259	1	Bearing-Ball				
16	3210-7	1	Screw-HH				
17	3255-7	3	Washer-Lock / EXT				
18	49-2040	3	Screw-Tapping				
19	51-3150	1	Shim-Spring Arm				
20	3254-9	2	Washer-Lock, Internal				
21	3217-16	2	Nut-Hex				
22	3256-6	1	Washer				



Push Arm and Roll-Over-Protection-System Assembly

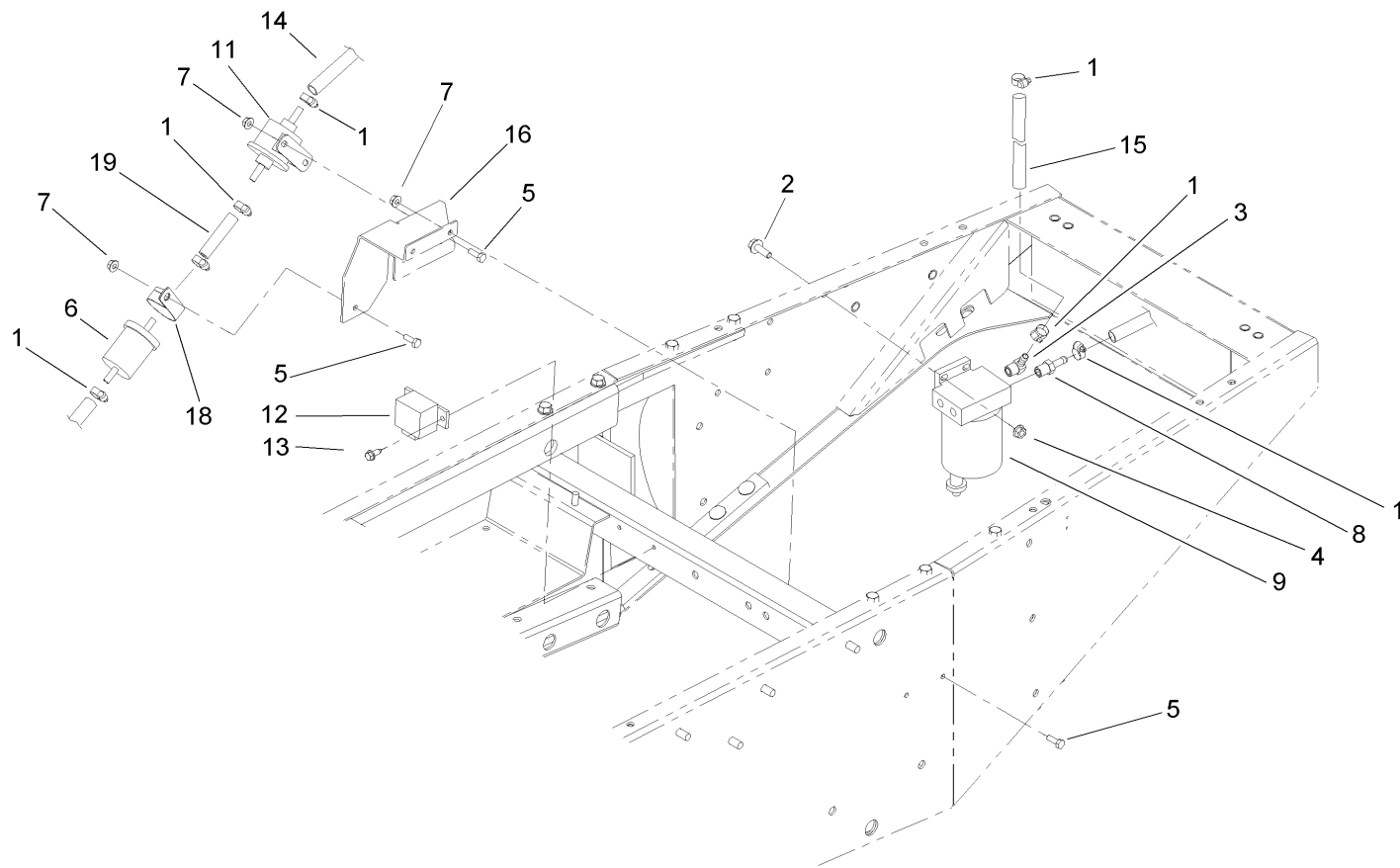
Ref	Part No.	Qty.	Description
1	66-6370	1	Lift Arm ASM
1:7	302-5	1	Fitting-Grease
1:8	3290-472	1	Insert-Threaded
2	3253-6	2	Washer-Lock
3	66-7150	1	Arm-Push, RH
3:2	302-33	1	Fitting-Grease
3:3	256-126	2	Bushing
4	3272-24	1	Pin-Cotter
5	93-6696	3	Decal-Warning
6	46-8840-01	1	Spring-Arm, Lift
7		1	RH Ball Joint ASM
7:1	21-3020-01	1	Mount-Balljoint, RH
7:2	86-8100-01	1	Joint-Ball
7:2:1	302-5	1	Fitting-Grease
7:2:2	32136-2	1	Nut-SHH
7:2:3	105-7835	1	Seal
7:3	21-3000	1	Nut-HJ
7:4	3272-11	1	Pin-Cotter
8	5-1754	6	Washer-Flat
9	3272-33	1	Pin-Cotter
10	324-4	2	Screw-HH
11	3-7292	1	Pin
12	21-2860-01	2	Push Arm Bracket ASM
13	32121-84	2	Pin-Coil

Ref	Part No.	Qty.	Description
14	21-2990	1	Shaft-Pivot
15	32128-42	4	Nut-HF
16	21-2960	1	Arm-Push, LH
16:2	302-33	1	Fitting-Grease
16:3	256-126	2	Bushing
17	21-2900-01	1	Spring-Counter Balance, LH
17	105-9550-01	1	Spring-Counter Balance, LH Light
19	21-2890-01	1	Spring-Counter Balance, RH
20		1	LH Ball Joint ASM
20:1	21-3050-01	1	LH Ball Joint Mount ASM
20:2	86-8100-01	1	Joint-Ball
20:2:1	302-5	1	Fitting-Grease
20:2:2	32136-2	1	Nut-SHH
20:2:3	105-7835	1	Seal
20:3	21-3000	1	Nut-HJ
20:4	3272-11	1	Pin-Cotter
21	28-8070	1	Lanyard
22	99-1299-03	1	ROPS-2 Post
23	3-1365	3	Chain
24	3272-10	6	Pin-Cotter
25	283-10	6	Pin-Clevis
26	3212-4	2	Screw-HH
27	328-12	4	Screw-HH
28	3253-9	4	Washer-Lock



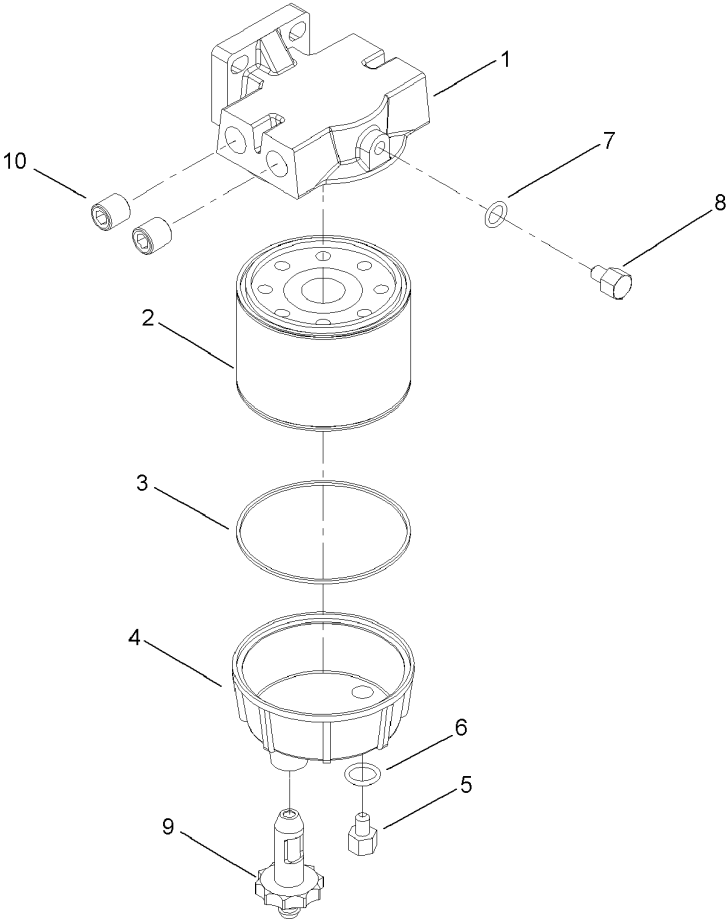
20.2.2 Push Arm and Roll-Over-Protection-System Assembly (continued)

Ref	Part No.	Qty.	Description
29	3217-12	4	Nut-Hex
30	93-7040-01	1	Support-Reinforcement
31	5-3126	3	Pin-Spring
32	72-9390	1	Belt-Seat
33	93-7644	1	Pin-Hitch, Cotterless
34	24-9510	1	Pin
35	5-2942	6	Shackle
36	21-1830	1	Spring-Extension
37	68-3270	1	Bumper-Rubber
38	104-7050	1	Housing-Manual
41	2412-133	2	R-Clamp
42	3272-7	1	Pin-Cotter
43	324-12	2	Screw-HH
44	93-7650-01	1	Lever-Locking
45	32121-2	1	Pin-Roll, Slotted
46	104-7048	1	Cap-Housing



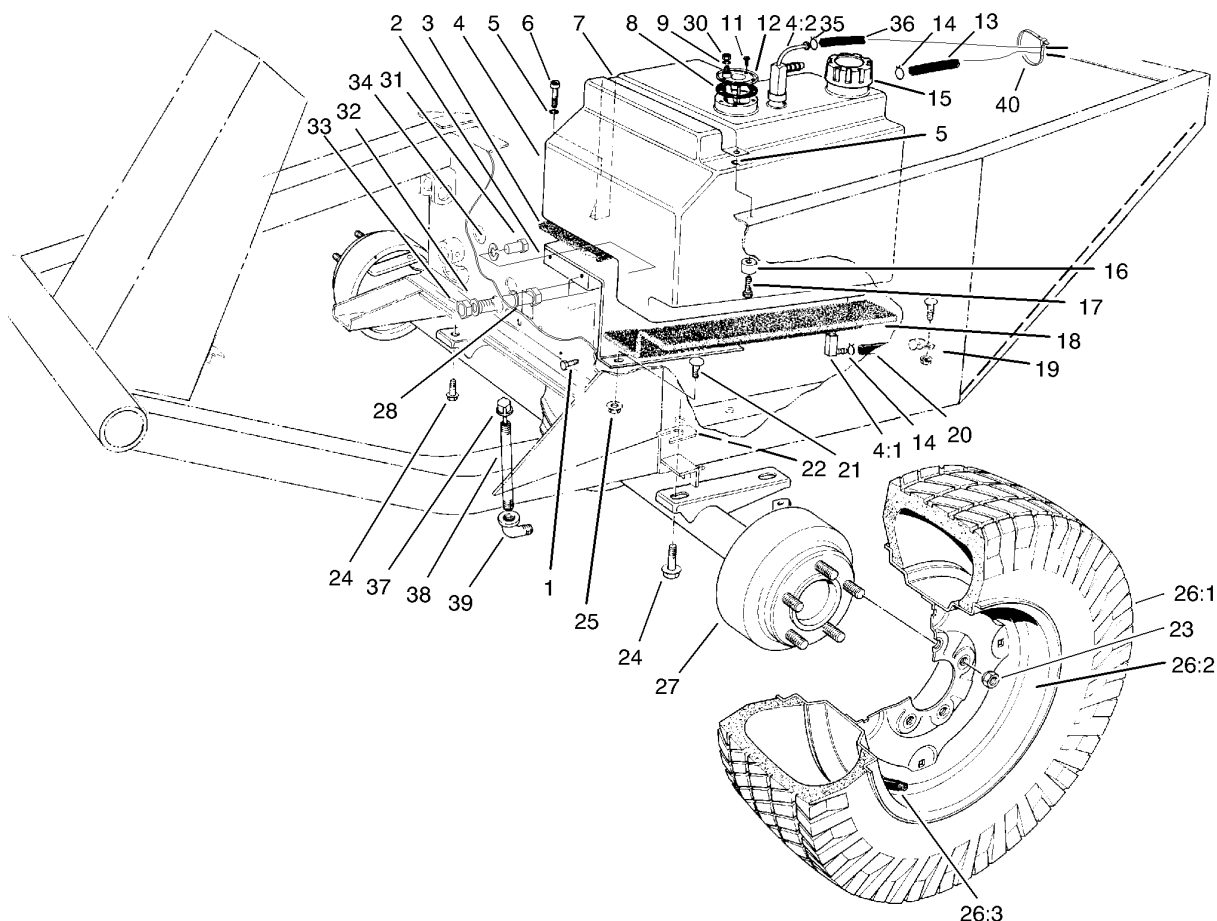
Water and Fuel Filter Assembly

Ref	Part No.	Qty.	Description				
1	2412-108	7	Clamp-Worm				
2	3234-29	2	Screw-HHF				
3	353-781	1	Fitting-Elbow				
4	32128-20	2	Nut-HF				
5	321-4	5	Screw-HH				
6	98-7612	1	Filter-Fuel				
7	32128-33	5	Nut-HF				
8	353-783	1	Fitting				
9	98-9305	1	Water / Fuel Filter ASM				
11	104-5215	1	Pump-Fuel, Electric				
12	66-8800	1	Relay				
13	32144-10	2	Screw-HWH				
14	95-4274	1	Hose-Fuel				
15	63-9640	1	Hose				
16	105-2561-03	1	Bracket-Pump, Fuel				
18	2412-147	1	Clamp				
19	105-2599	1	Hose-Fuel				



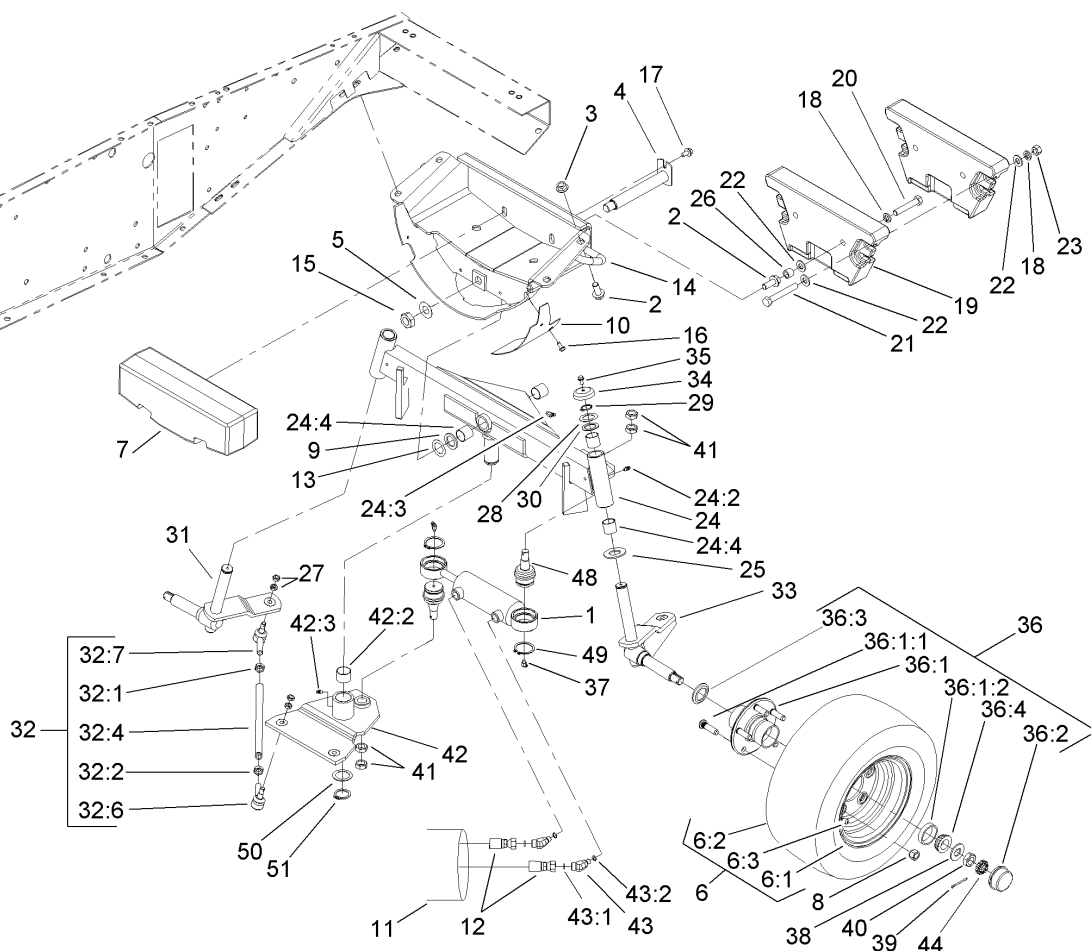
Water / Fuel Filter Assembly No. 98-9305

Ref	Part No.	Qty.	Description				
1	98-9772	1	Head-Filter				
2	98-9764	1	Element				
3	98-9774	1	O-Ring-Base, Filter				
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				



Fuel Tank and Front Axle Assembly

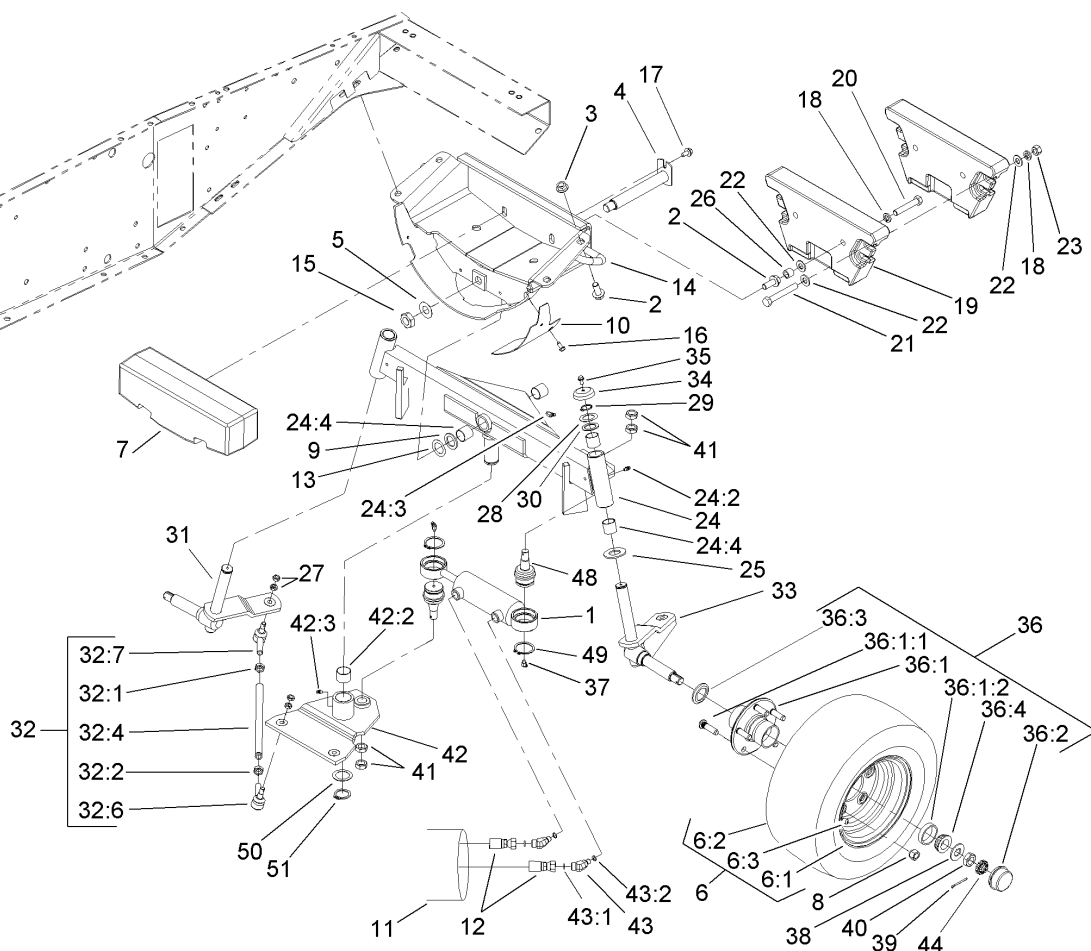
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	3234-11	2	Screw-HHF	24	32144-67	4	Screw
2	68-9760	1	Fuel Tank Base ASM	25	32128-20	3	Nut-HF
3	21-3600	1	Foam-Support, Tank	26		2	Wheel And Tire ASM
4	43-4150	1	Fuel Tank ASM	26:1	95-3348	1	Tire
4:1	43-4190	1	Fitting ASM	26:2	217-117	1	Wheel
4:2	43-4160	1	Fitting-Return And Vent	26:3	232-27	1	Stem-Valve
5	3253-3	2	Washer-Lock	27	86-9600-03	1	Axle ASM
6	32104-96	1	Screw-HH	28	24-9830-01	1	Support-Axle ASM
7	37-9550	1	Strap-Tank, Gas	30	3219-14	1	Nut-Hex
8	62-7650	1	Gasket	31	323-6	1	Screw-HH
9	3253-17	1	Washer-Lock / Sp	32	3256-6	2	Washer
11	32144-53	5	Screw-SHWH	33	3217-9	2	Nut-Hex
12	105-2563	1	Sender-Fuel	34	3253-21	1	Washer-Lock
13	104-0076	1	Hose-Fuel	35	2412-79	2	Clamp-Hose
14	2412-6	2	Clamp-Hose	36	43-4230	1	Hose-Return
15	55-3572	1	Gas Cap ASM	37	23-5180	1	Dipstick-Axle
16	22-7810	1	Spacer	38	289-37	1	Nipple-Pipe
17	321-6	1	Screw-HH	39	2811-9	1	Fitting-Elbow, Street
18	21-3610	1	Foam-Support, Tank	40	3290-379	1	Tie-Cable
19	2412-4	1	Clamp				
20	27-5360	1	Hose-Fuel				
21	3230-2	3	Bolt-CARR				
22	42-6080	1	Shim-Axle				
23	23-7270	10	Nut-Wheel				



Rear Axle Assembly

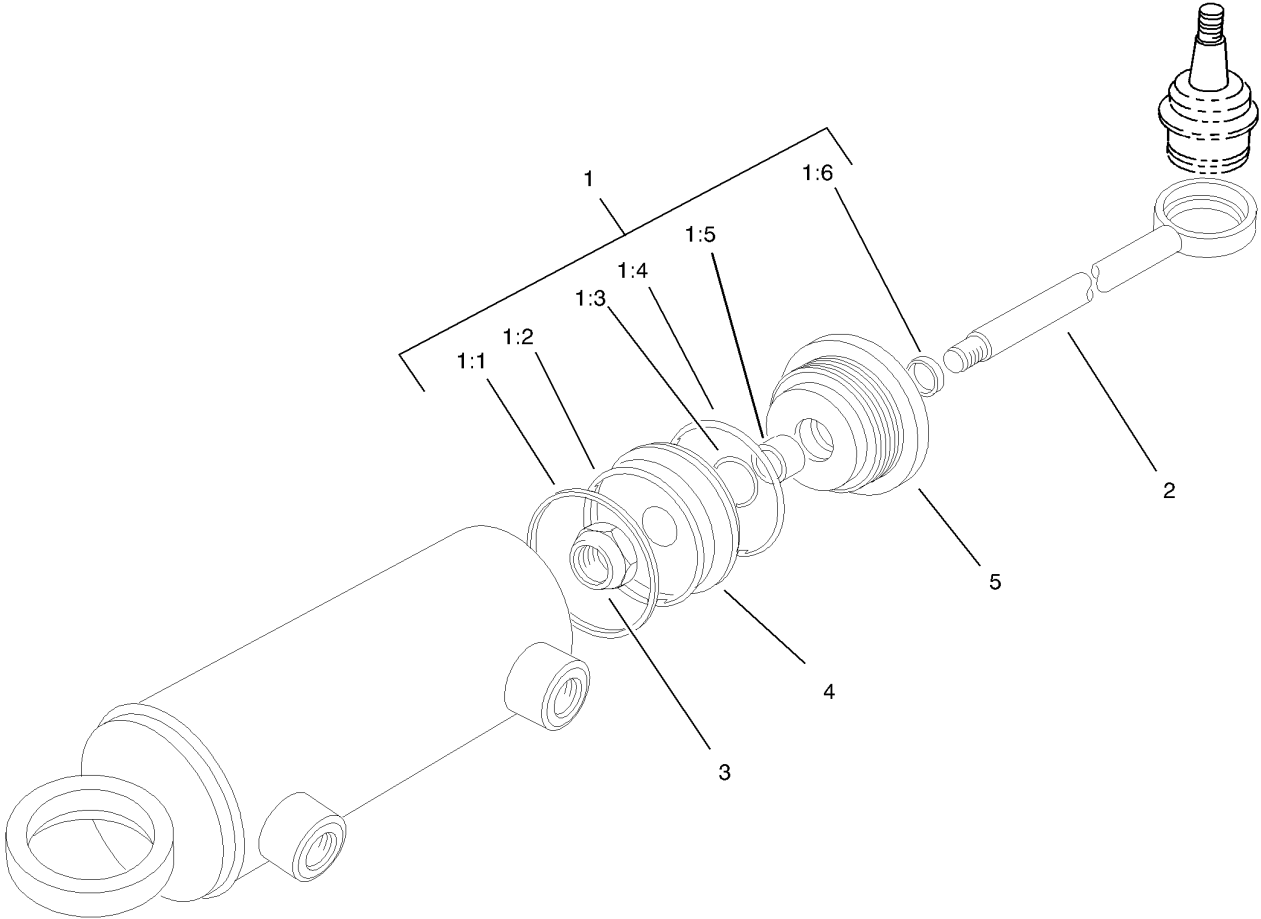
Ref	Part No.	Qty.	Description
1	92-7828	1	Cylinder-Hydraulic
2	3234-32	6	Screw-HHF
3	32128-23	4	Nut-HF
4	92-7807-01	1	Rear Axle Pin ASM
5	71-4540	1	Washer-Thrust
26		2	Wheel And Tire ASM
6:1	217-106	1	Wheel-8In
6:2	231-105	1	Tire-Rib
6:3	232-31	1	Stem-Valve
7	98-3869-01	1	Weight-Rear
8	242-50	10	Nut-Lug
9	92-7845	1	Spacer-Hardened
10	99-2413-01	1	Cover-Guard, Flywheel
11	56-7980	1	Sleeve-Protective
12	68-9710	2	Hose-Steering, Rear
13	56-2460	1	Washer-Flat
14	92-7803-01	1	Axle Support ASM
15	32146-20	1	Nut-Jam
16	32144-10	2	Screw-HWH
17	32144-14	1	Screw-HWH
18	3253-7	4	Washer-Lock
19	24-5790-01	2	Weight-Rear
20	325-11	2	Screw-HH
21	325-14	2	Screw-HH

Ref	Part No.	Qty.	Description
22	3256-26	6	Washer-Flat
23	3217-9	2	Nut-Hex
24	106-8050-03	1	Rear Axle ASM
24:2	302-5	2	Fitting-Grease
24:3	302-11	1	Fitting-Lube, 45 DEG
24:4	67-1750	6	Bushing
25	256-121	2	Washer-Thrust
26	57-4230	2	Spacer-Tubular
27	3220-3	8	Nut-Jam
28	5-1226	4	Washer
29	32151-36	2	Ring-Retaining
30	10-8110	2	Washer-Thrust
31	93-3199-03	1	RH Spindle ASM
32		2	Tie Rod-Steering ASM
32:1	3220-12	1	Nut-Hex Jam, LH Thread
32:2	3220-5-01	1	Nut-HJ
32:4	21-2000	1	Tie Rod-Steering
32:6	21-0151	1	LH Ball Joint ASM
32:7	21-0141-03	1	RH Ball Joint ASM
33	99-1292-03	1	LH Spindle ASM
34	66-2990	2	Cap-Spindle
35	3234-13	2	Screw-HHF
36		2	Hub ASM
36:1	21-2820	1	Hub



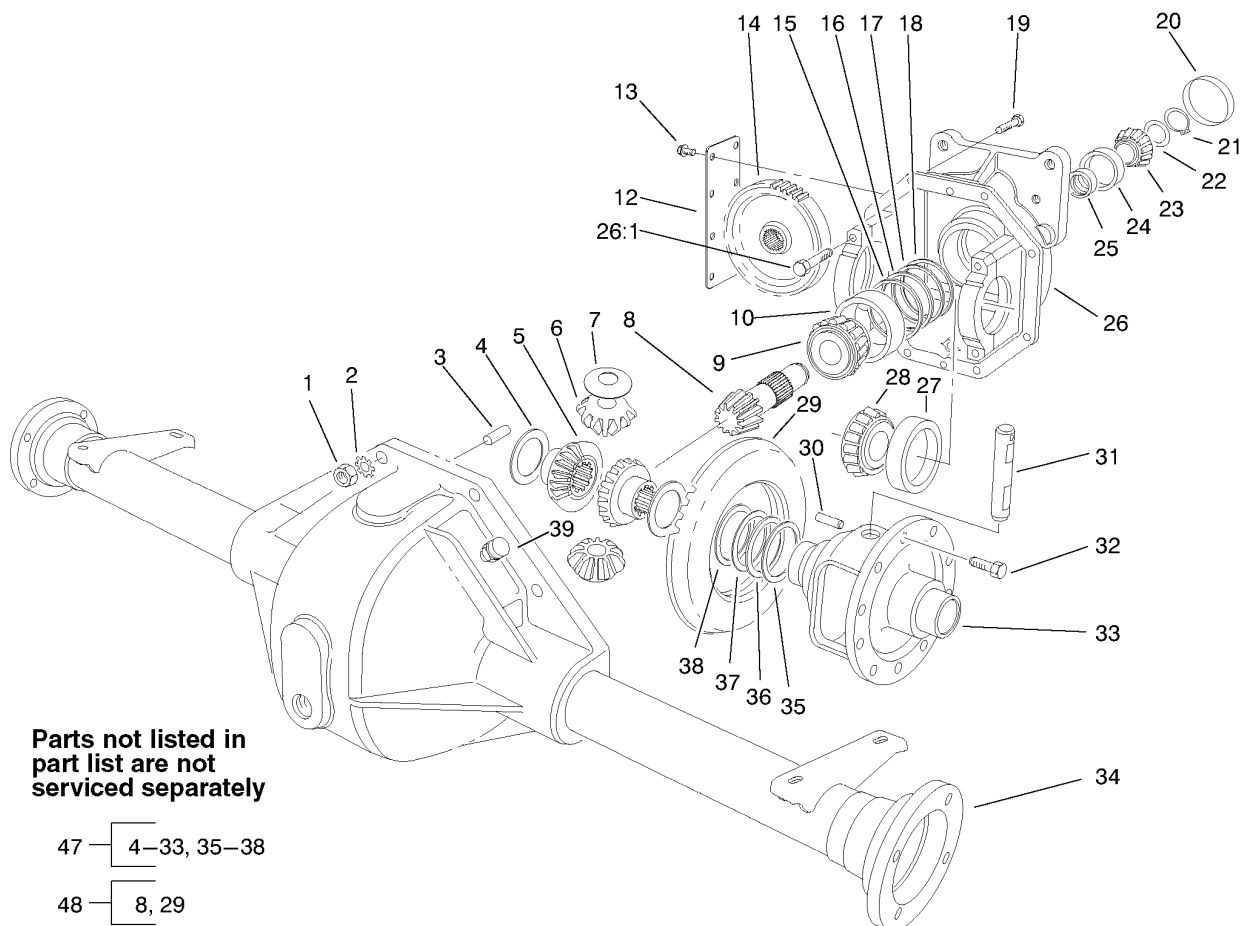
Rear Axle Assembly (continued)

Ref	Part No.	Qty.	Description				
36:1:1	10-6830	5	Stud-Type, Drive				
36:1:2	254-72	2	Bearing-Cup, Tapered				
36:2	241-119	1	Cap-Dust				
36:3	253-129	1	Seal				
36:4	254-94	2	Bearing-Cone, Tapered				
37	302-11	2	Fitting-Lube, 45 DEG				
38	93-0309	2	Washer-Tab				
39	3272-13	2	Pin-Cotter				
40	3220-7	2	Nut-Jam				
41	3220-6	4	Nut-Jam				
42	106-8052	1	Steering Pivot ASM				
42:2	76-2970	2	Bushing-Straight				
42:3	302-5	1	Fitting-Grease				
43	340-54	2	Elbow-45 DEG				
43:1	237-22	1	O-Ring				
43:2	237-78	1	O-Ring				
44	93-0307	2	Nut-Lock, Retainer				
48	106-6774	2	Joint-Ball				
49	32151-104	2	Ring-Retaining, External				
50	76-2980	1	Washer-Thrust				
51	32151-77	1	Ring-Retaining, EXT				



Hydraulic Cylinder Assembly No. 92-7828

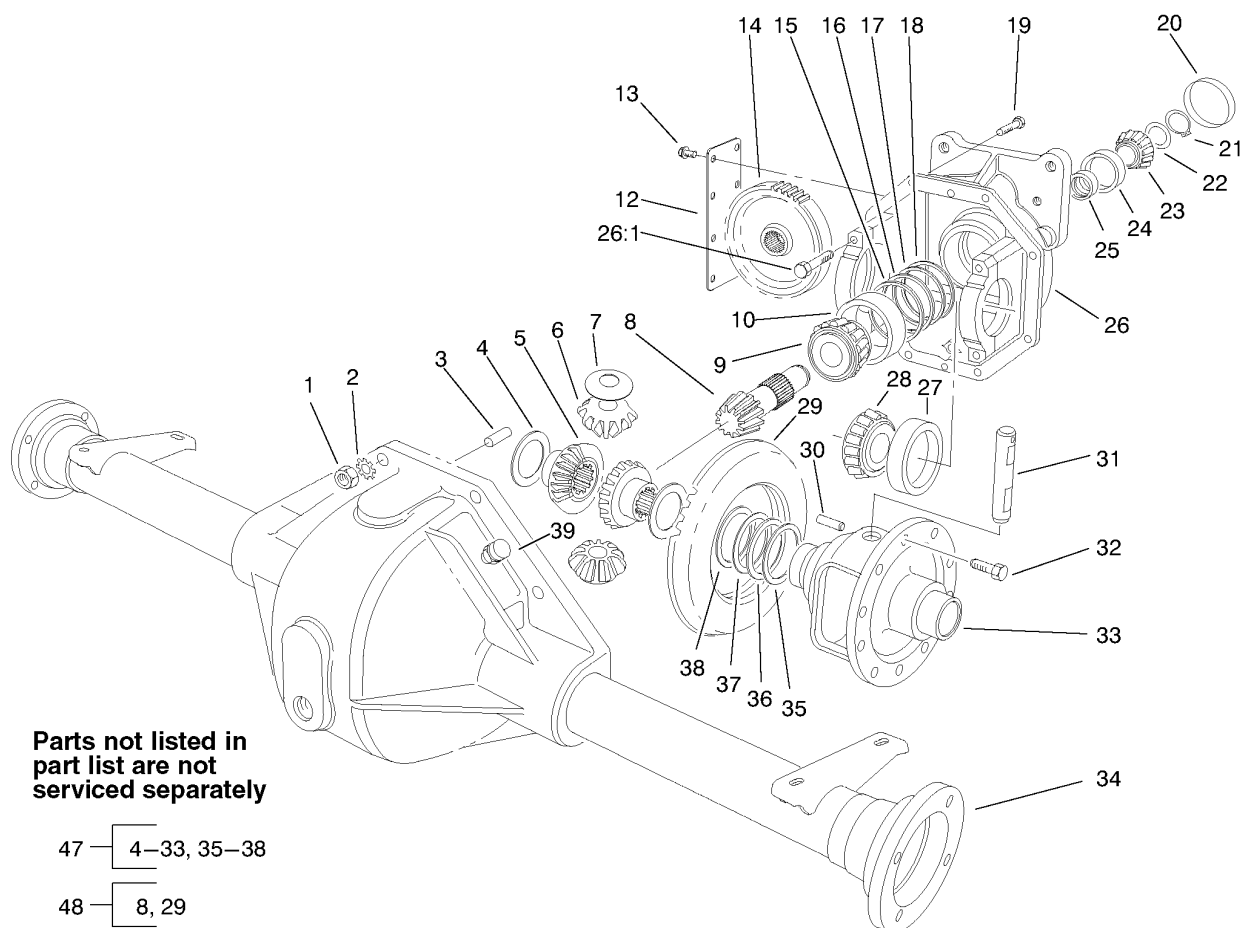
Ref	Part No.	Qty.	Description				
1	92-6593	1	Seal Kit				
1:1		1	Seal				
1:2		1	O-Ring				
1:3		1	O-Ring				
1:4		1	O-Ring				
1:5		1	U-Cup				
1:6		1	Wiper				
2		1	Piston Rod ASM				
3		1	Locknut				
4		1	Piston				
5		1	Gland				



Front Axle Assembly No. 86-9600-03

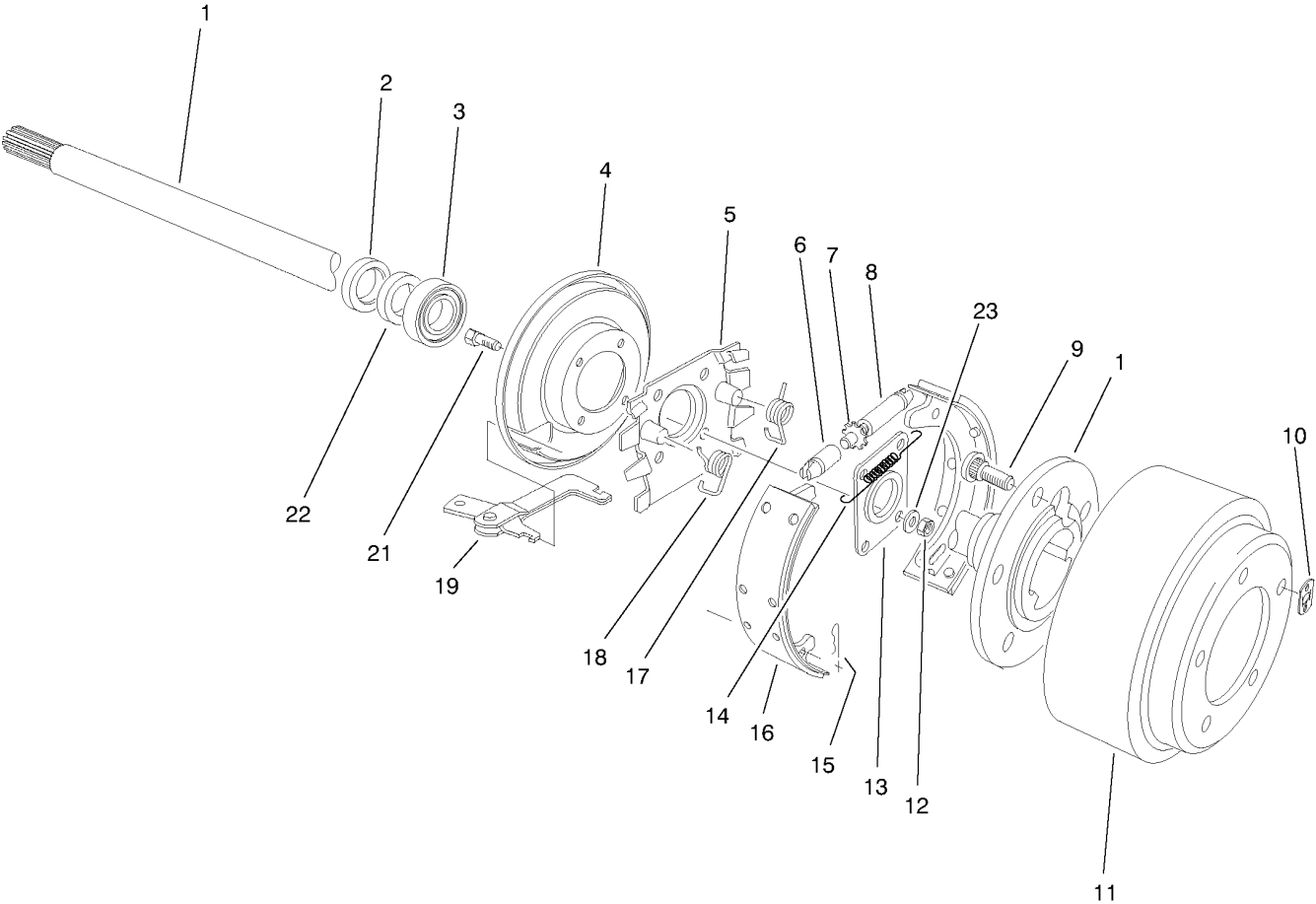
Ref	Part No.	Qty.	Description
1	3219-2	8	Nut-Hex
2	3255-8	8	Washer-Lock
3	21-8270	2	Pin-Dowel
4	21-7720	2	Washer-Thrust
5	24-8790	2	Gear-Differential
6	21-7690	2	Pinion-Differential
7	21-7730	2	Washer-Thrust, Pinion
8		1	Pinion-Drive
9	43-6760	1	Bearing-Roller, Cone Taper
10	43-6750	1	Bearing-Taper, Cup
12	21-7830	1	Cover-Gear
13	12-5450	8	Screw
14	86-7230	1	Gear-Input, Transmission
15	43-6710	0	Shim
16	43-6711	0	Shim
17	43-6712	0	Shim
18	43-6713	0	Shim
19	3210-7	8	Screw-HH
20	21-7850	1	Plug-Cup
21	43-6550	1	Ring-Snap
22	46-2210	0	Shim-Bearing, Front
	46-2211	0	Shim-Front Bearing, .033
	46-2212	0	Shim-Front Bearing, .035
	46-2213	0	Shim-Front Bearing, .037

Ref	Part No.	Qty.	Description
	46-2214	0	Shim-Front Bearing, .039
	46-2215	0	Shim-Front Bearing, .041
	46-2216	0	Shim-Front Bearing, .043
	46-2220	0	Shim-Front Bearing, .045
	46-2221	0	Shim-Front Bearing, .047
	46-2222	0	Shim-Front Bearing, .049
	46-2223	0	Shim-Front Bearing, .051
	46-2224	0	Shim-Front Bearing, .053
	46-2225	0	Shim-Front Bearing, .055
	46-2226	0	Shim-Front Bearing, .057
	46-2410	0	Shim-Front Pinion .062
	46-2411	0	Shim-Front Pinion .064
	46-2412	0	Shim-Front Pinion .066
	46-2413	0	Shim-Front Pinion .068
	46-2414	0	Shim-Front Pinion .070
	46-2415	0	Shim-Front Pinion .072
	46-2416	0	Shim-Front Pinion .074
	46-2420	0	Shim-Front Pinion .076
	46-2421	0	Shim-Front Pinion .078
	46-2422	0	Shim-Front Pinion .080
	46-2423	0	Shim-Front Pinion .082
	46-2424	0	Shim-Front Pinion .084
	46-2425	0	Shim-Front Pinion .086
	46-2426	0	Shim-Front Pinion .088



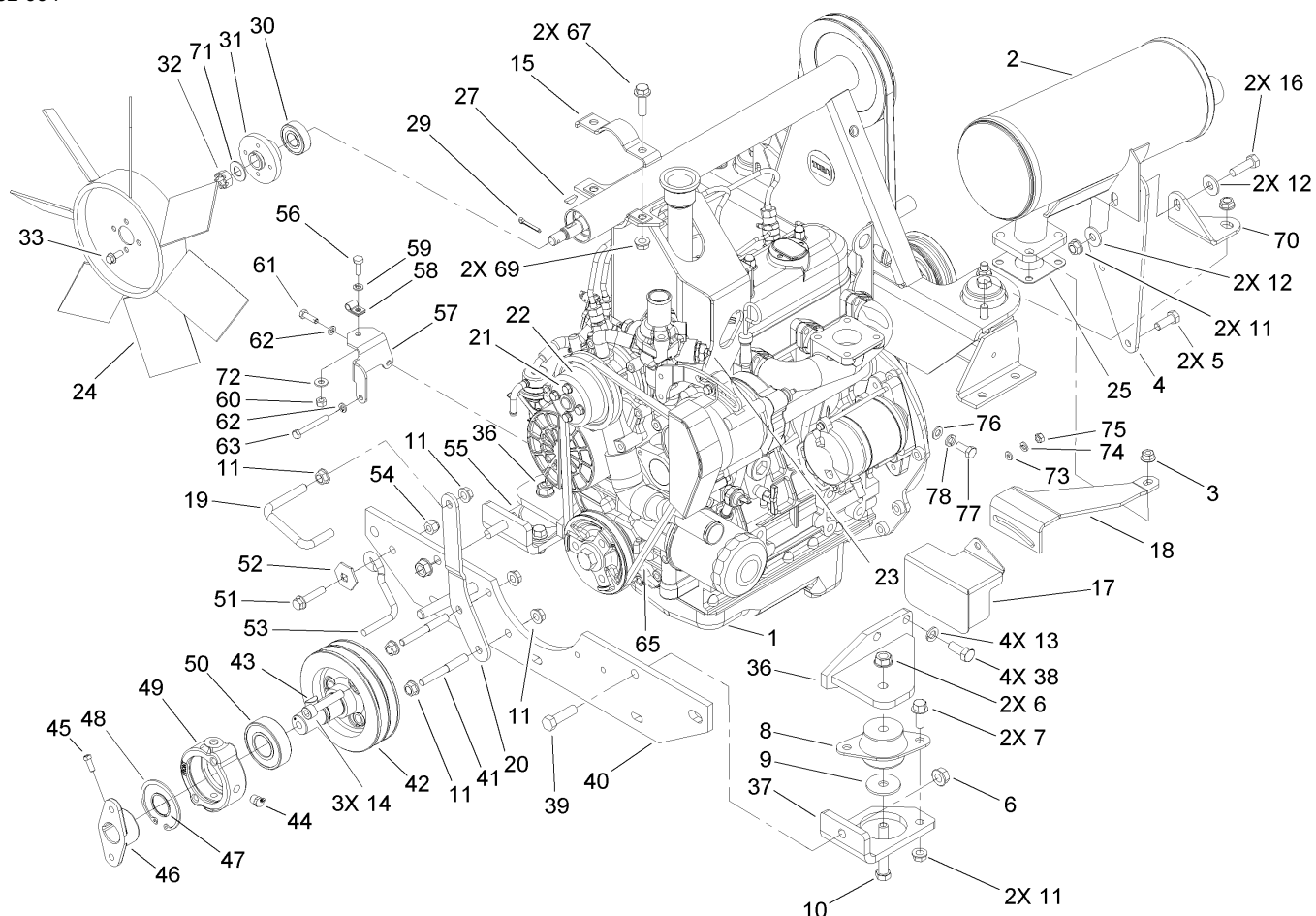
Front Axle Assembly No. 86-9600-03 (continued)

Ref	Part No.	Qty.	Description				
23	254-91	1	Cone-Bearing				
24	254-90	1	Bearing-Cup				
25	21-8020	1	Spacer-Bearing				
26	86-9580	1	Upper Hsg Sub Assy				
26:1	92-1773	4	Screw-HHF				
27	254-66	2	Cup-Bearing, Roller				
28	254-65	2	Cone-Bearing, Roller				
29		1	Gear-Ring				
30	32121-15	1	Pin-Roll				
31	21-7700	1	Shaft-Mate, Pinion				
32	21-7770	5	Screw-Gear, Drive				
33	21-7670	1	Case-Differential				
34	43-6840	1	Housing-Lower				
35	21-8120	0	Shim-Bearing, Diff. (.030)				
36	21-8110	0	Shim-Bearing, Diff. (.010)				
37	21-8100	0	Shim-Bearing, Diff. (.005)				
38	21-8090	0	Shim-Bearing, Diff. (.003)				
39	72-9420	1	Vent				
47	92-4903	1	Differ'l Carrier Assy				
48	92-4848	1	Gear And Pinion ASM				



Brake Assembly

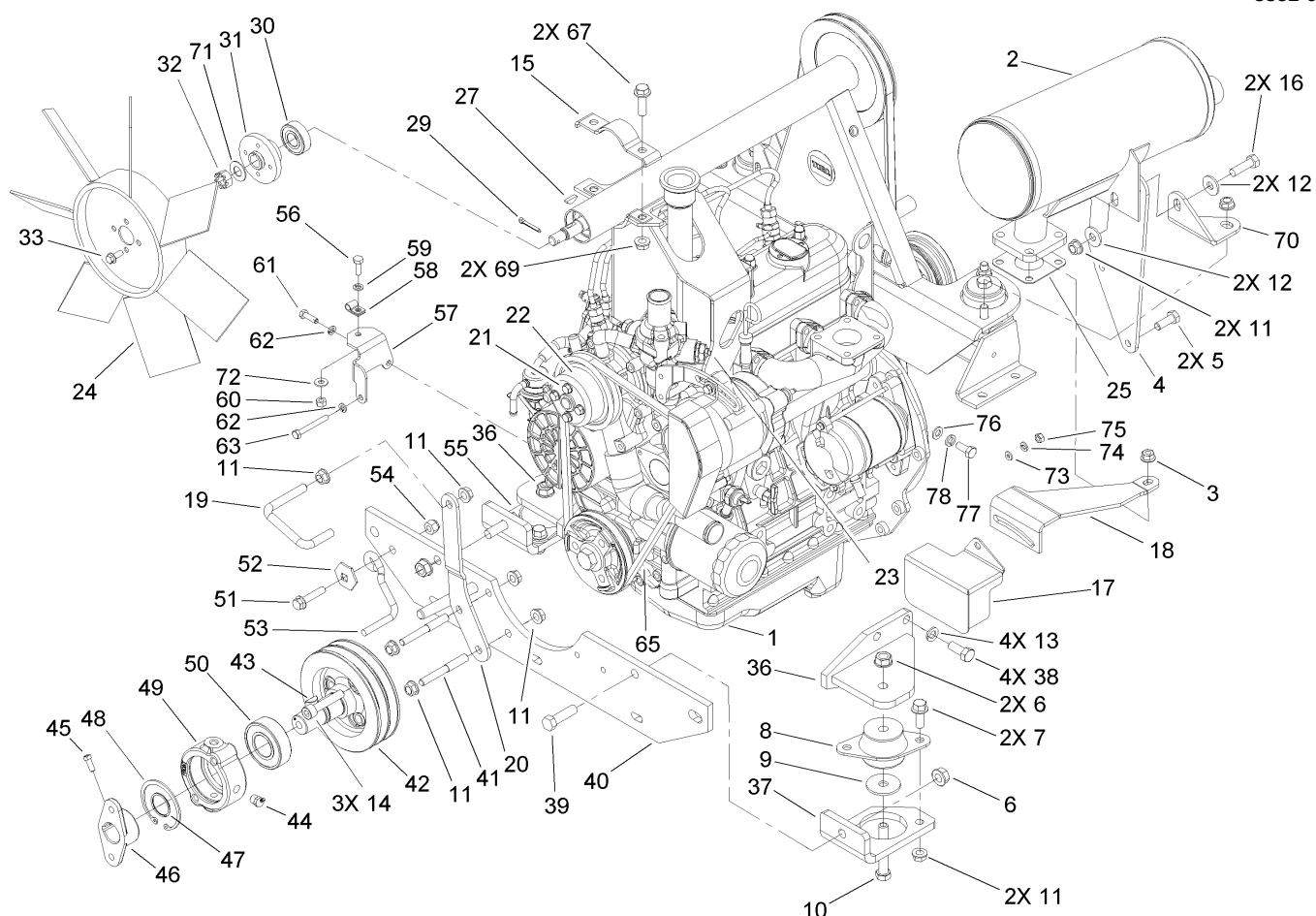
Ref	Part No.	Qty.	Description				
1	28-0650	2	Flanged Axle Shaft				
2	92-1774	2	Seal-Oil				
3	21-8180	2	Bearing ASM				
4	21-9450	2	Shield-Dust				
5	43-6810	2	Spider-Torque				
6	21-9390	2	Socket-Screw, Adjusting				
7	21-9370	2	Screw-Adjusting				
8	21-9380	2	Nut-Pivot				
9	242-34	10	Stud-Drive				
10	21-8360	2	Locknut				
11	28-0680	2	Drum-Brake				
12	94-6935	8	Locknut				
13	28-0670	2	Seal-Grease				
14	21-9440	2	Spring-Screw, Adjusting				
15	21-9460	4	Retainer-Lever, Brake				
16	84-8600	1	Set-Shoes, Lined				
17	21-9420	2	Spring-Return, LH				
18	21-9430	2	Spring-Return, RH				
19	24-9180	2	Strut And Lever ASM				
21	94-6934	8	Screw-HH, Brake				
22	24-8840	2	Ring-Retaining, Wheel Bearing				
23	94-6936	8	Washer-Hardened				
1	92-8775	1	Liquid Gasket Kit				



Engine and Mounting Component Assembly

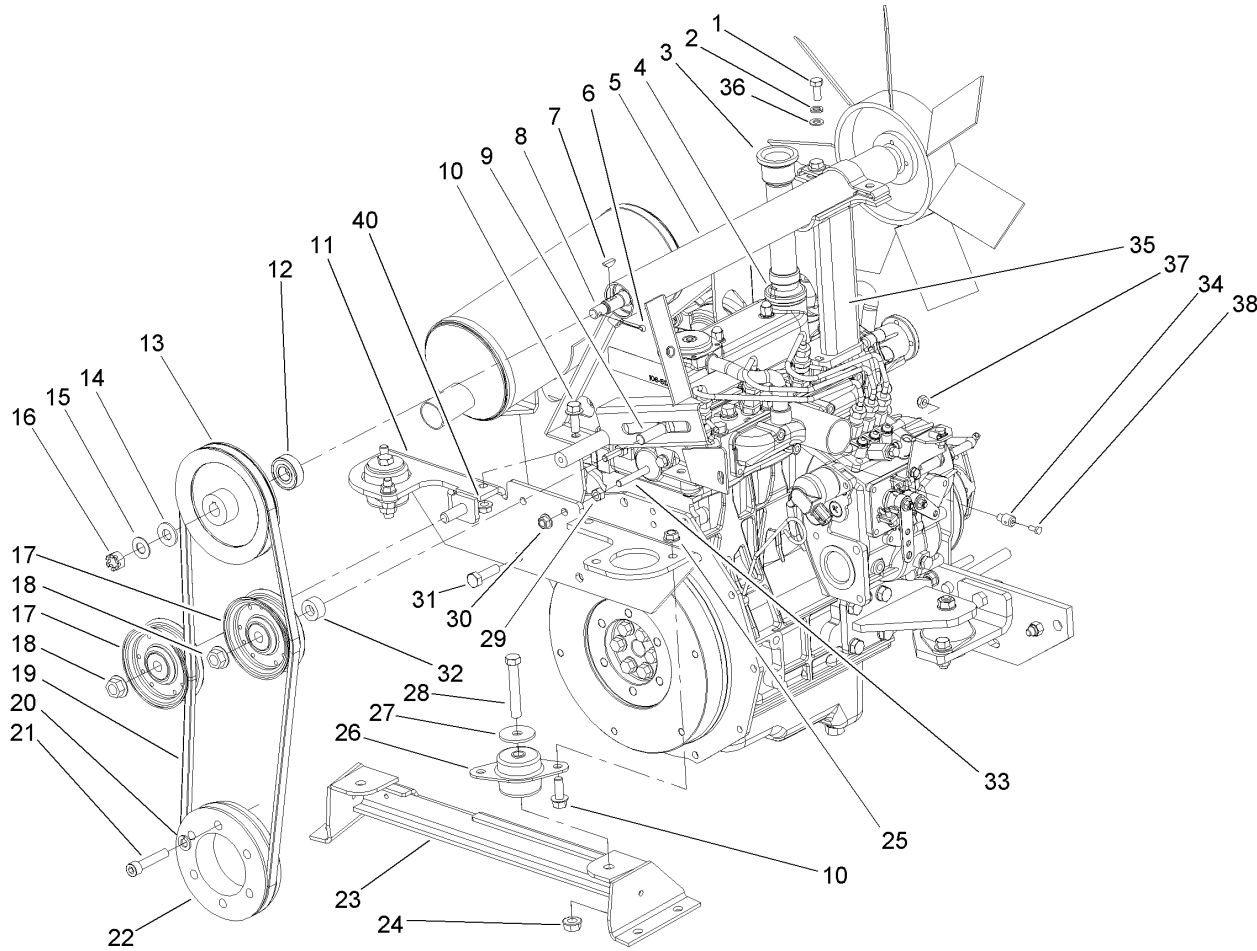
Ref	Part No.	Qty.	Description
1	108-1361	1	Engine-Kubota
2	106-8069	1	Muffler-Exhaust
3	33004-00	4	Nut-HF
4	105-2523-03	1	Bracket-Muffler
5	33114-016	2	Screw-HH
6	32128-37	4	Nut-HF
7	3234-11	4	Screw-HHF
8	53-9680	2	Mount-Engine
9	53-9480	2	Washer-Snubber
10	324-11	2	Screw-HH
11	3290-357	12	Nut-HHF
12	80-6990	4	Washer-Hardened
13	42-9600	8	Washer-Lock, Spring
14	3274-106	3	Screw-HSH
15	105-2519-03	1	Clamp-Cradle
16	323-44	2	Screw-HH
17	105-2557-03	1	Guard-Alternator
18	105-2556-03	1	Brace-Alternator, Upper
19	105-4276	1	Guide-Belt, PTO
20	105-0052-03	1	Bracket-Belt Guide
21	81-1280	4	Bolt
22	98-9584	1	Pulley-Fan
23	98-9346	1	Sender-Temperature
24	107-9096	1	Fan-Cooling

Ref	Part No.	Qty.	Description
25	98-9611	1	Gasket
27	3257-30	1	Key-Woodruff
29	3272-16	1	Pin-Cotter
30	38-7820	1	Bearing-Ball
31	104-3408-03	1	Hub-Fan
32	32136-3	1	Nut-SHH
33	3234-33	4	Screw-HHF
36	104-3463-03	2	Mount-Front
37	104-3464-03	1	Mount-Frame, LH Front
38	43-0090	8	Screw-HH
39	324-6	2	Screw-HH
40	75-9900-01	1	Support-Engine, Front
41	105-0057	2	Stud-Belt Retainer
42	104-3406-03	1	Pulley-Fan
43	3257-33	1	Key-Woodruff
44	302-10	1	Fitting-Grease
45	3241-5	2	Screw-Set
46	27-1960	1	Hub-Engine
47	32120-69	1	Ring-Snap
48	32120-22	1	Ring-Snap, Internal
49	43-3720	1	Collar-Bearing
50	251-252	1	Bearing
51	3234-18	1	Screw-HHF
52	3290-224	1	Lockwasher-Pyramid



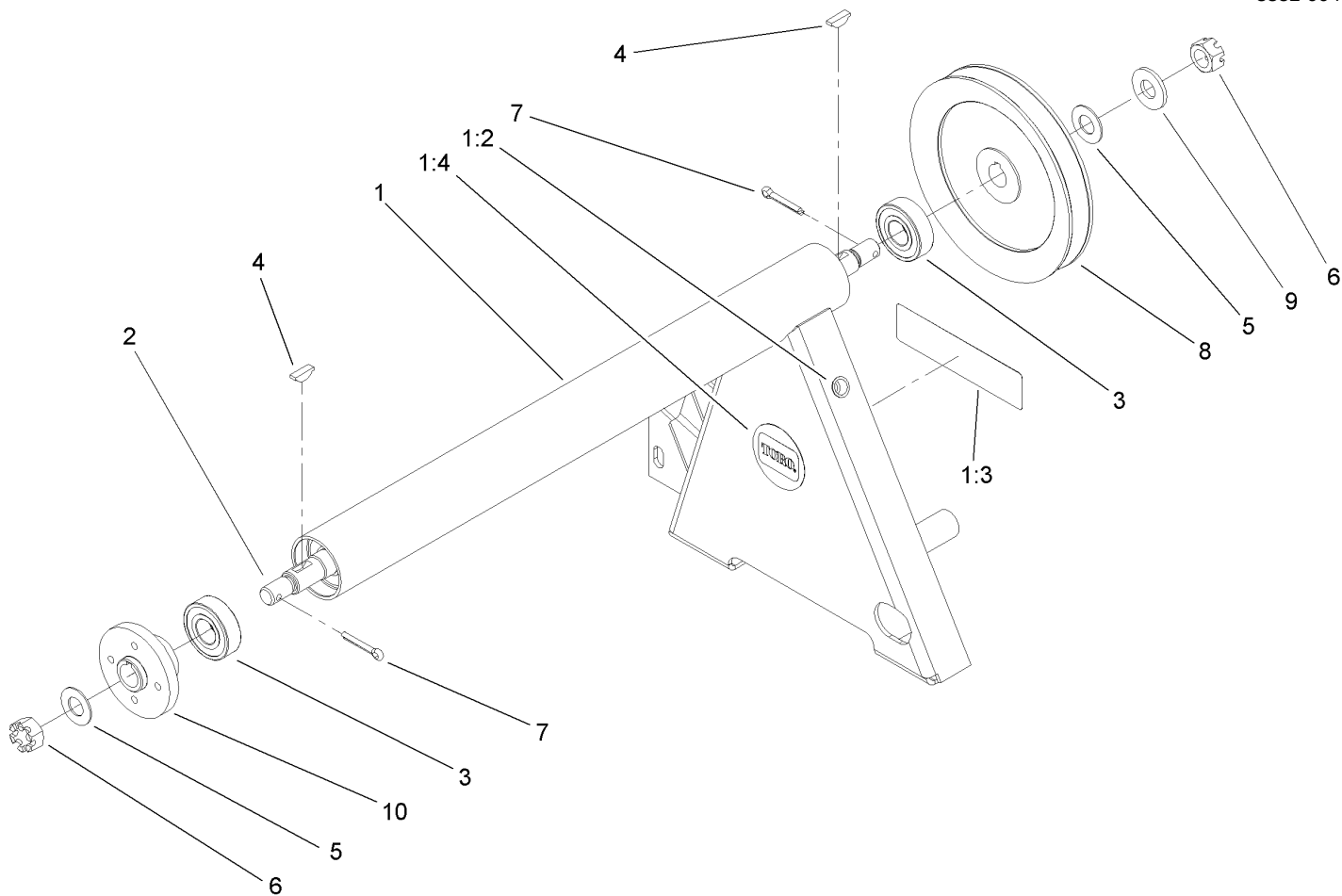
Engine and Mounting Component Assembly (continued)

Ref	Part No.	Qty.	Description
53	63-1400	1	Rod-Belt
54	3296-39	1	Nut-Lock, NI
55	104-3465-03	1	Mount-Frame, RH Front
56	321-4	1	Screw-HH
57	104-3421-03	1	Bracket-Throttle
58	2412-31	1	Clamp-Boden
59	3253-3	1	Washer-Lock
60	3217-5	1	Nut-Hex
61	33113-050	1	Screw-HH
62	48-8020	2	Washer-Spring
63	48-7630	1	Screw
65	98-9676	1	V-Belt
67	3234-24	2	Screw-HHF
69	3296-39	2	Nut-Lock, NI
70	105-2598-03	1	Bracket-Muffler
71	18-9810	1	Washer-Thrust
72	3256-22	1	Washer-Flat
73	3256-78	1	Washer-Flat
74	43-5930	1	Washer-Spring
75	48-7890	1	Nut
76	33094-00	1	Washer-Flat
77	92-1374	1	Screw-HH
78	3253-4	1	Washer-Lock



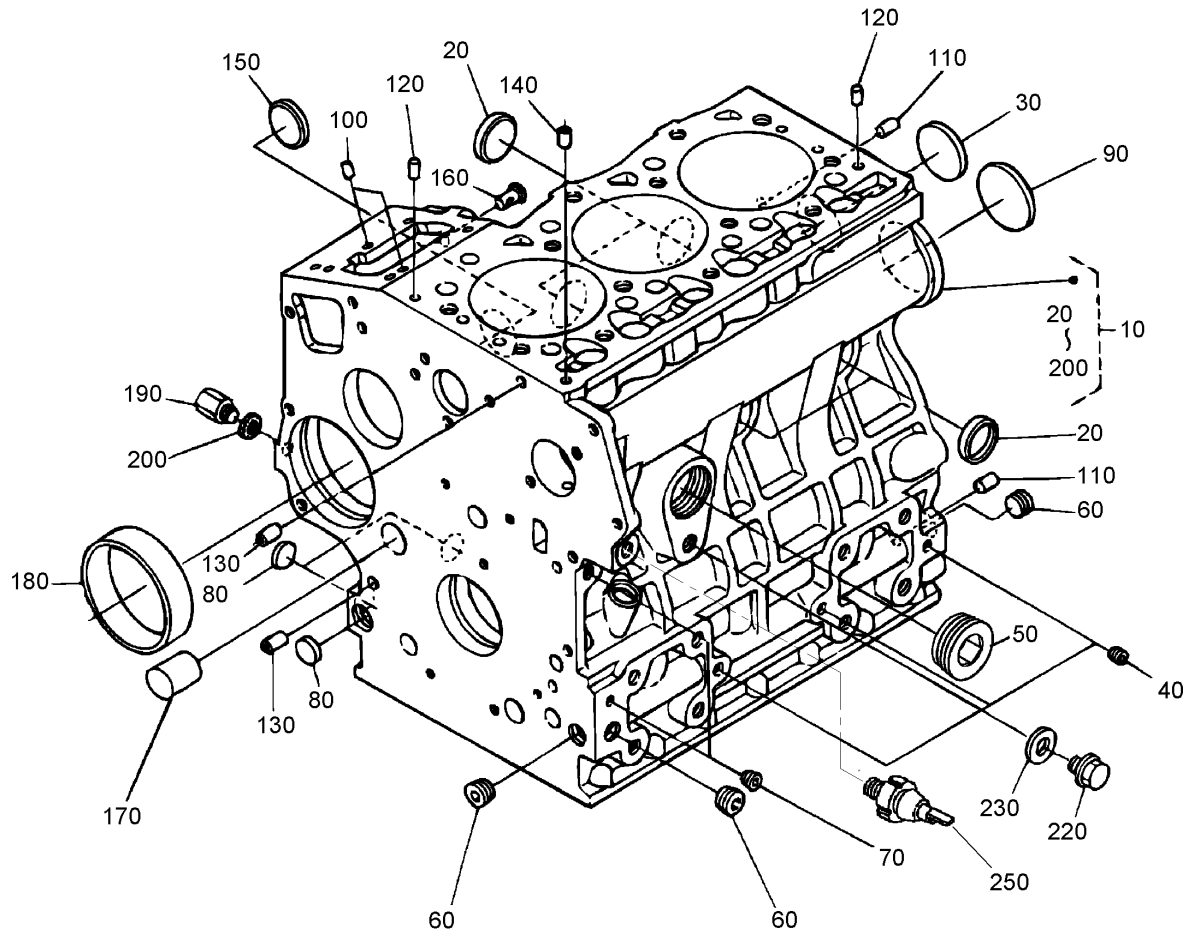
Engine Pulley System Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	93-7773	2	Screw	25	3290-357	4	Nut-HHF
2	3253-4	2	Washer-Lock	26	53-9680	2	Mount-Engine
3	105-0087	1	Flange-Filler, Oil	27	53-9480	2	Washer-Snubber
4	98-7430	1	O-Ring	28	324-11	2	Screw-HH
5	106-4399	1	Fan-Support ASM	29	33014-00	2	Nut-Hex
6	3272-16	1	Pin-Cotter	30	33004-00	2	Nut-HF
7	3257-30	1	Key-Woodruff	31	56-2140	2	Bolt
8	43-3690	1	Fan Shaft	32	105-0058	1	Spacer-Fan Idler
9	3233-14	1	Screw-CARR	33	105-2502	2	Stud
10	3234-11	6	Screw-HHF	34	105-4263	1	Swivel-Throttle Cable
11	105-2501-03	1	Engine Mount ASM	35	105-2507-03	1	Cradle-Tube Support
12	38-7820	1	Bearing-Ball	36	68-0020	2	Idler Pivot Spacer
13	105-2524	1	Hub-Pulley	37	3296-20	1	Nut-Lock, NI
14	3-6803	2	Washer-Adjusting	38	25-8640	1	Screw-HH
15	29-8910	1	Washer	40	32128-21	2	Nut-HF
16	32136-3	1	Nut-SHH				
17	105-3699	2	Pulley-Idler, Flat				
18	32128-23	2	Nut-HF				
19	105-3693	1	Belt-Fan				
20	42-9600	6	Washer-Lock, Spring				
21	3274-106	6	Screw-HSH				
22	104-3407-03	1	Pulley-Flywheel				
23	105-2520-03	1	Engine Mount ASM				
24	32128-37	2	Nut-HF				



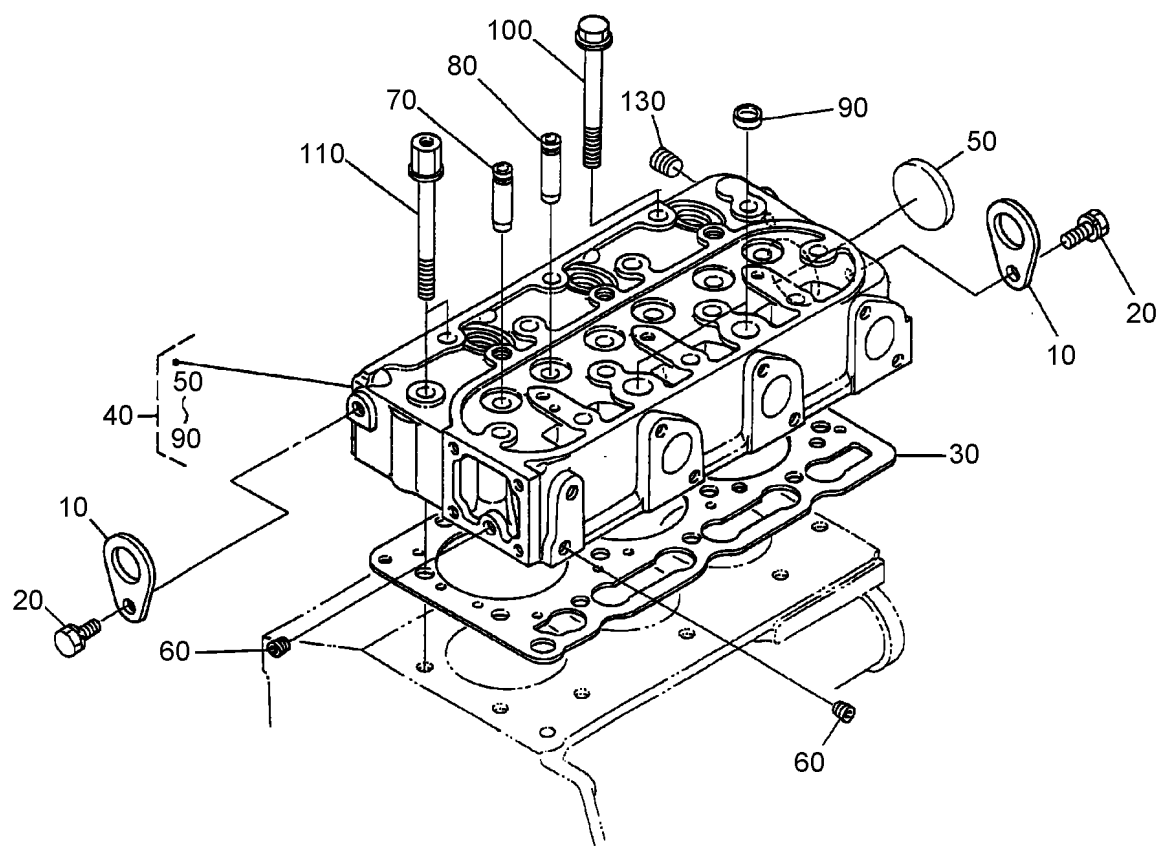
Fan Support Assembly No. 106-4399

Ref	Part No.	Qty.	Description				
1	105-2592	1	Tube Support ASM				
1:2	3290-472	2	Insert-Threaded				
1:3	106-8120	1	Decal-Danger, Ce				
1:4	68-5370	1	Decal				
2	43-3690	1	Fan Shaft				
3	38-7820	2	Bearing-Ball				
4	3257-30	2	Key-Woodruff				
5	18-9810	2	Washer-Thrust				
6	32136-3	2	Nut-SHH				
7	3272-16	2	Pin-Cotter				
8	105-2524	1	Hub-Pulley				
9	29-8910	1	Washer				
10	104-3408-03	1	Hub-Fan				



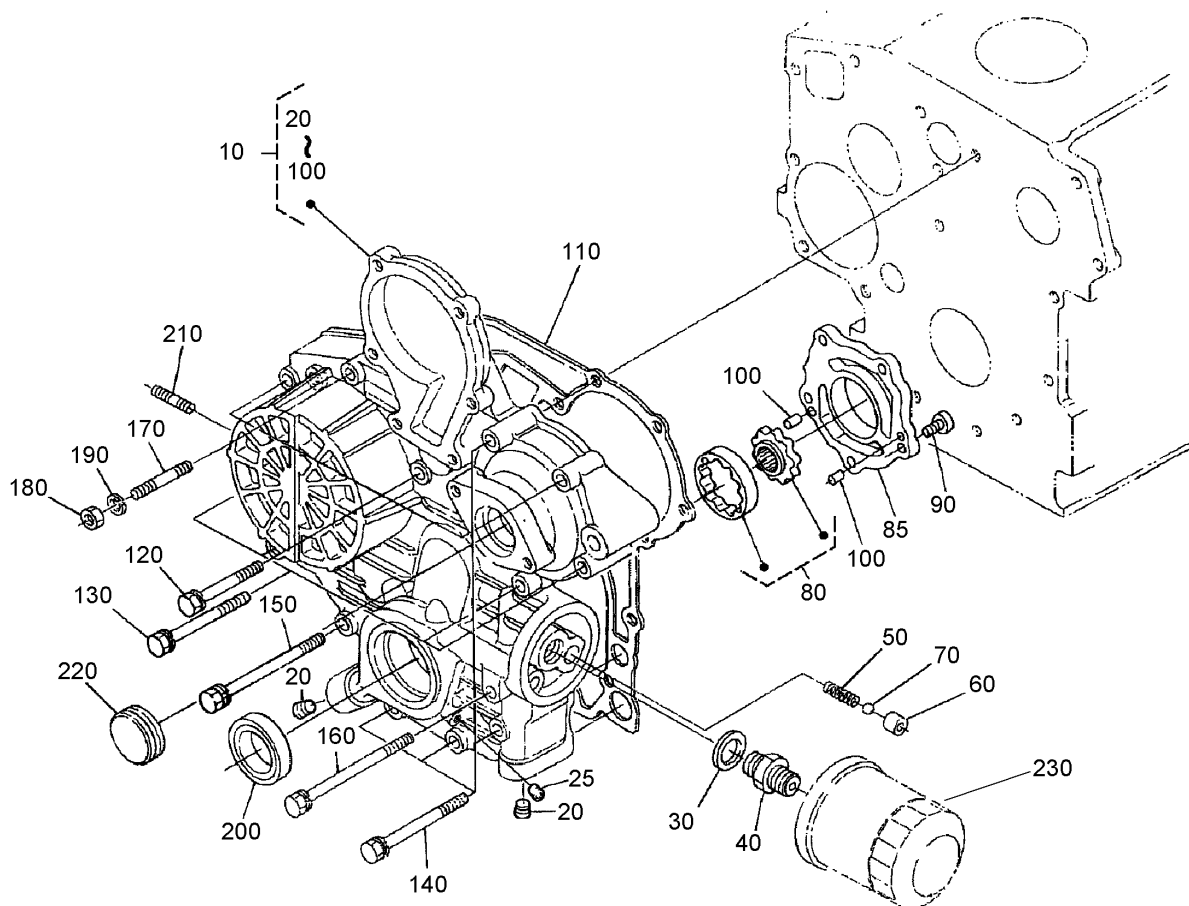
Crankcase Assembly

Ref	Part No.	Qty.	Description				
10	108-6571	1	Crankcase ASM				
20	98-9398	4	Cap-Sealing				
30	98-7539	1	Cap-Sealing				
40	98-7540	3	Plug				
50	105-3779	1	Plug				
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				
220	99-3447	1	Plug				
230	106-7056	1	Gasket				
250	98-9416	1	Switch-Oil				



Cylinder Head Assembly

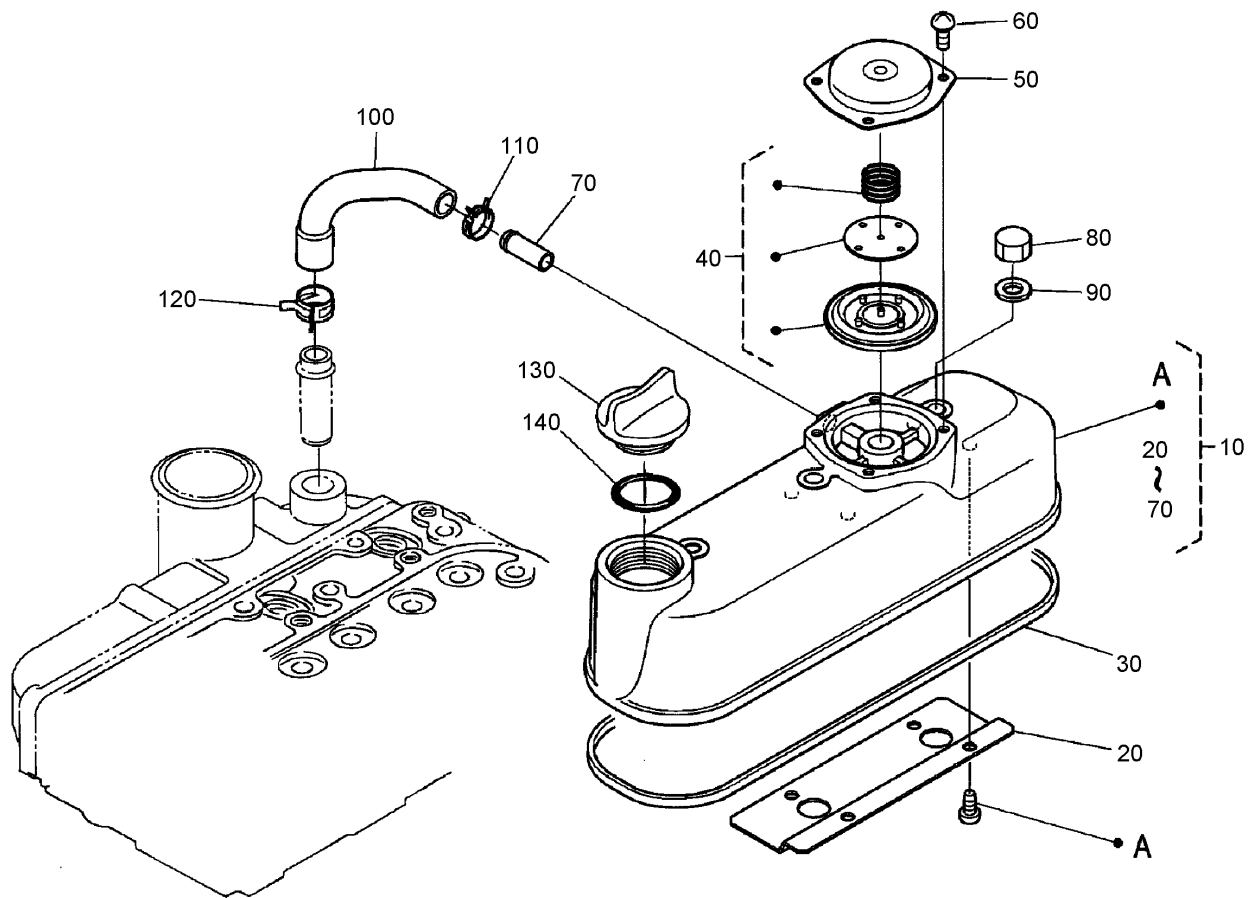
Ref	Part No.	Qty.	Description				
10	98-7531	2	Hook-Engine				
20	100-9195	2	Bolt				
30	108-6573	1	Gasket-Head, Cylinder				
40	108-6574	1	Cylinder Head ASM				
50	98-9395	1	Cap-Sealing				
60	98-7540	2	Plug				
70	107-9066	3	Guide-Valve, Inlet				
80	107-9067	3	Guide-Valve, Exhaust				
90	98-9389	2	Cap-Sealing				
100	98-9479	1	Bolt-Head, Cylinder				
110	98-9647	2	Bolt-Head, Cylinder				
130	98-9444	1	Plug				



Gear Case Assembly

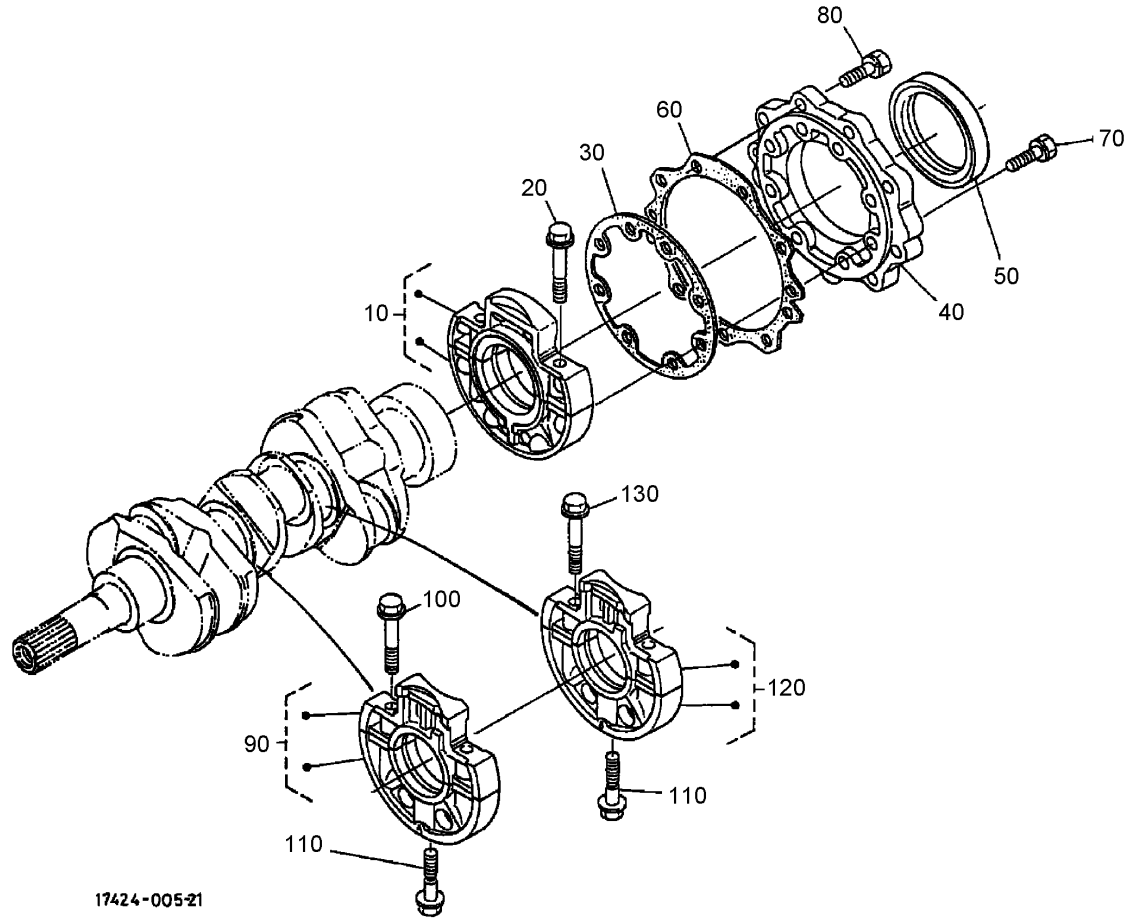
Ref	Part No.	Qty.	Description
10	107-9068	1	Gear Case ASM
20	98-9598	2	Plug
25	98-7487	1	Plug
30	98-7562	1	Washer-Plain
40	98-9388	1	Joint-Pipe
50	98-9544	1	Spring
60	98-9543	1	Seat-Valve
70	98-9380	1	Ball
80	98-9540	1	Oil Pump Rotor ASM
85	107-9069	1	Cover-Pump, Oil
90	107-9071	5	Screw
100	107-9072	2	Pin-Straight
110	98-9633	1	Gasket-Case, Gear
120	107-9073	3	Bolt
130	105-3797	4	Bolt
140	98-9356	4	Bolt
150	107-9074	1	Bolt
160	98-9586	1	Bolt
170	105-3709	1	Stud
180	98-7572	1	Nut
190	98-7699	1	Washer-Spring
200	98-9482	1	Seal-Oil
210	105-3710	2	Stud
220	98-9641	1	Cover

Ref	Part No.	Qty.	Description
230	104-5167	1	Filter-Oil



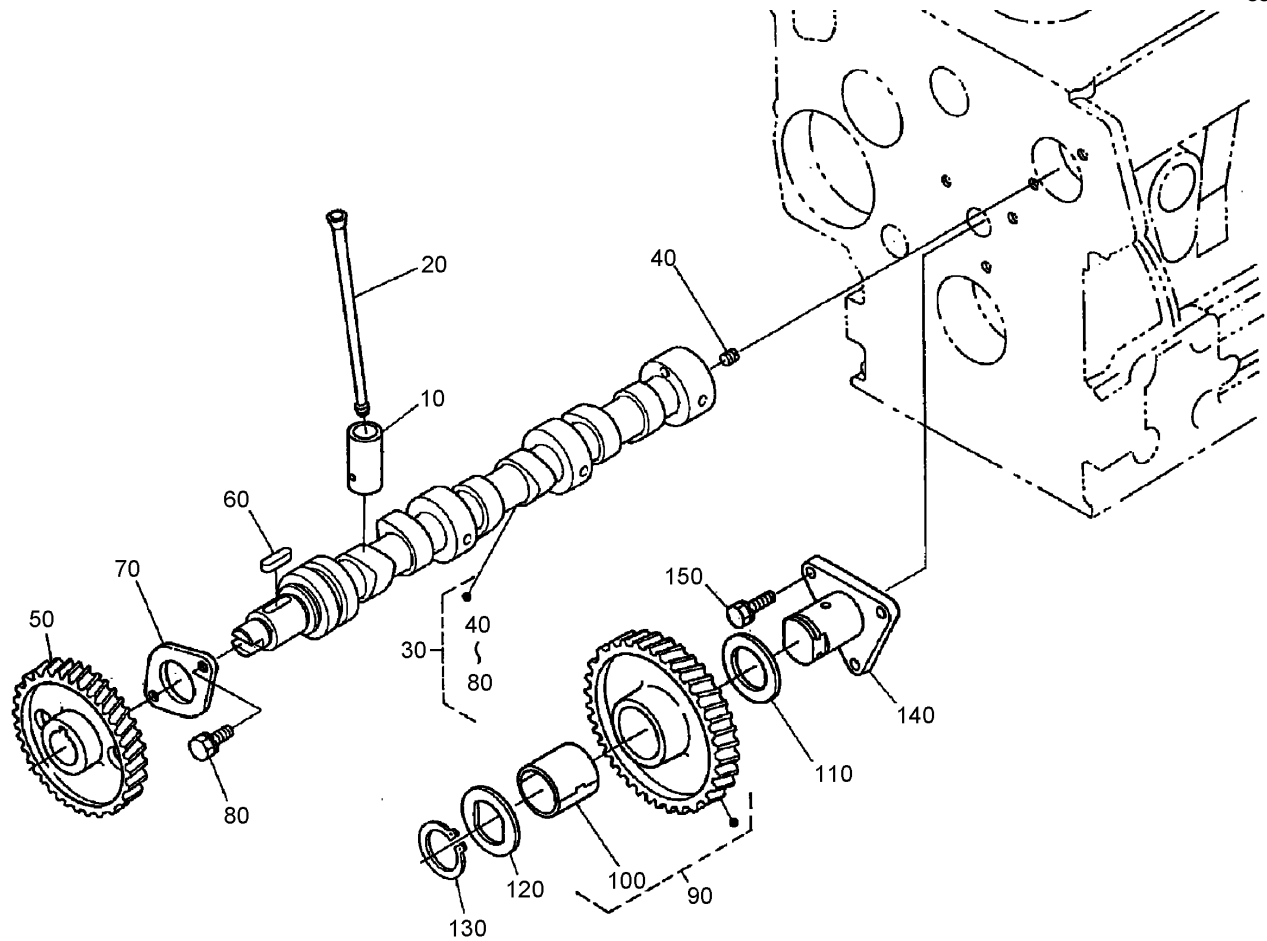
Head Cover Assembly

Ref	Part No.	Qty.	Description				
10	108-6575	1	Cylinder Head Cover ASM				
20	108-2857	1	Shield-Breather				
30	98-9615	1	Gasket-Cover, Head				
40	108-2861	1	Breather Valve ASM				
50	108-2862	1	Cover-Breather				
60	108-2863	4	Screw-PPH				
70	98-7766	1	Pipe-Return, Water				
80	98-9455	3	Nut-Cap				
90	98-9454	3	Gasket				
100	108-2858	1	Tube-Beather				
110	108-2859	1	Clamp-Hose				
120	108-2860	1	Clamp-Hose				
130	107-9075	1	Plug-Filler, Oil				
140	99-3446	1	O-Ring				



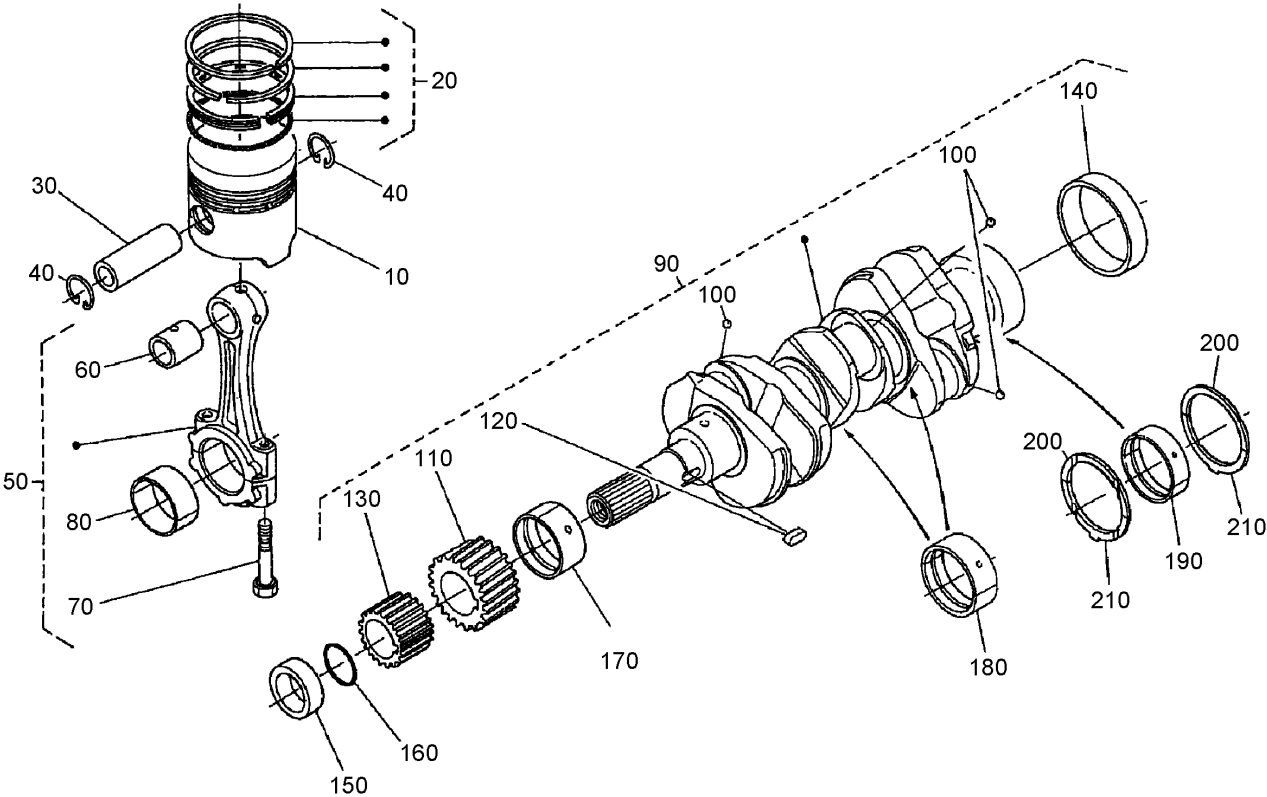
Main Bearing Case Assembly

Ref	Part No.	Qty.	Description				
10	98-9480	1	Main Bearing Case ASM				
20	98-9484	6	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	98-9606	1	Main Bearing Case ASM				
100	98-9484	2	Bolt-Case, Bearing				
110	98-9485	2	Bolt-Case, Bearing				
120	98-9607	1	Main Bearing Case ASM				
130	98-9484	2	Bolt-Case, Bearing				



Camshaft and Idle Gear Shaft Assembly

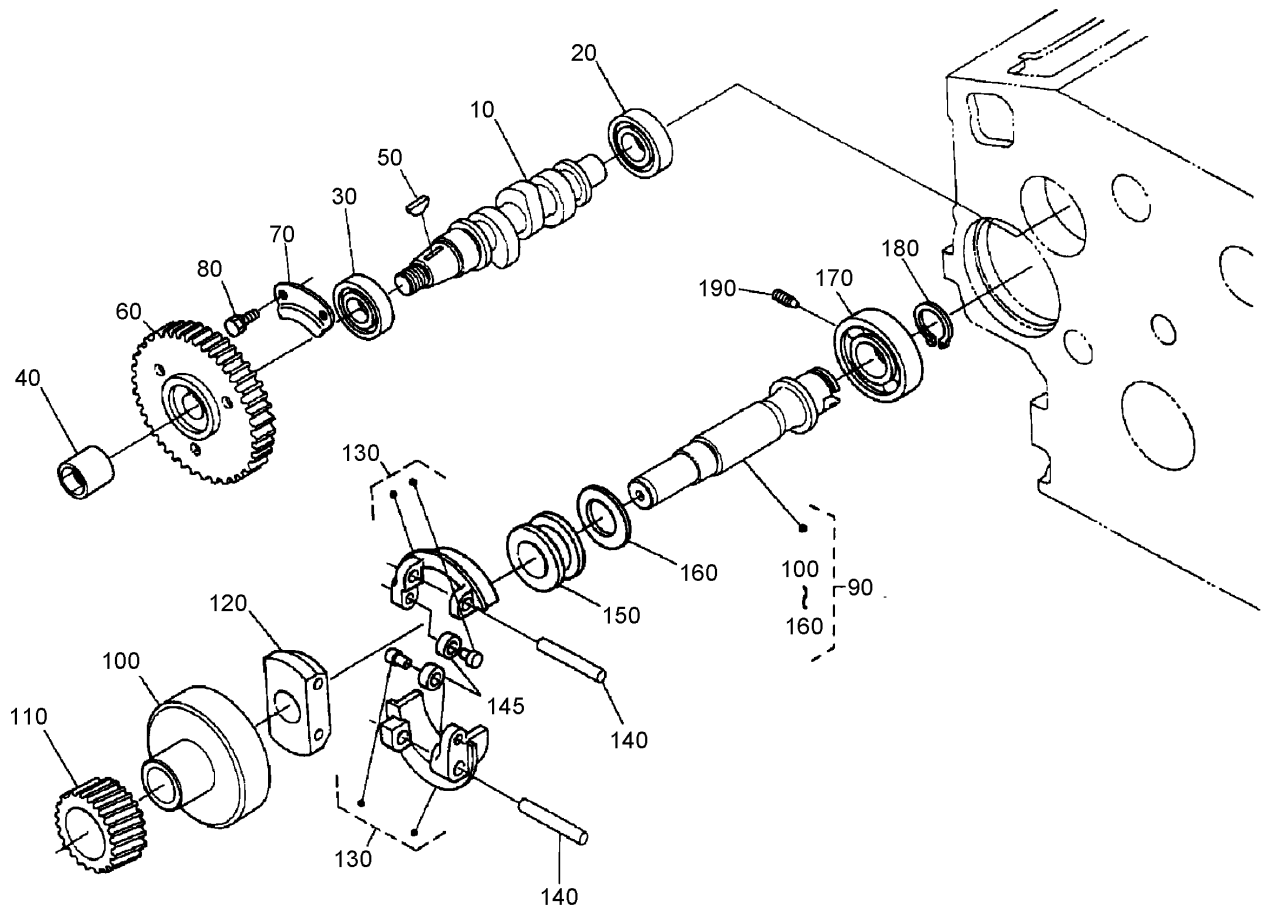
Ref	Part No.	Qty.	Description				
10	98-9616	6	Tappet				
20	98-9509	6	Rod-Push				
30	108-6576	1	Camshaft ASM				
40	98-7449	1	Screw-Set				
50	98-9512	1	Gear-Cam				
60	98-9378	1	Key-Feather				
70	98-9510	1	Stopper-Camshaft				
80	98-9351	2	Bolt				
90	98-9649	1	Idle Gear ASM				
100	98-9650	1	Bushing-Gear, 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				



Piston and Crankshaft Assembly

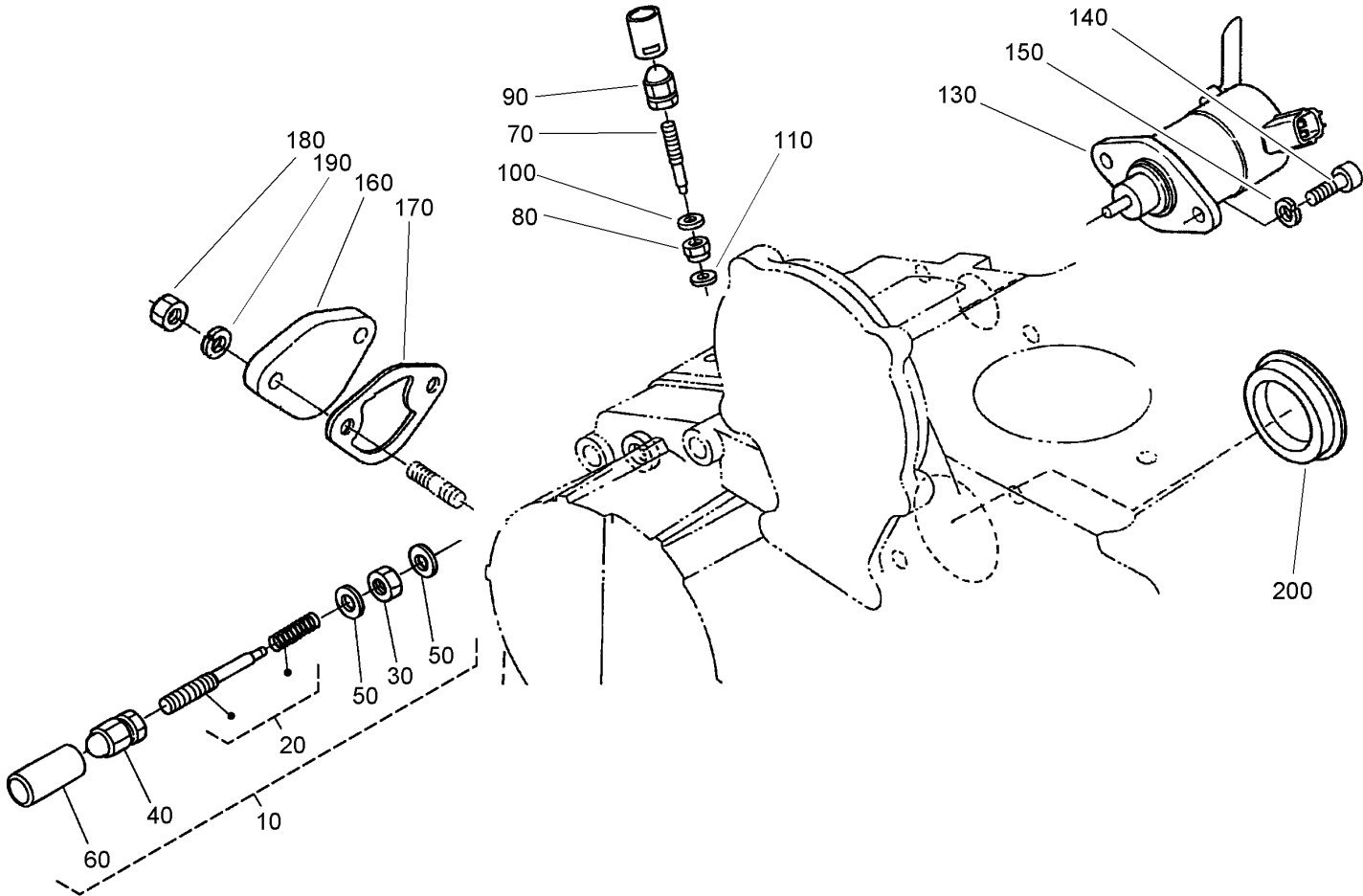
Ref	Part No.	Qty.	Description
10	98-9470	3	Piston (0.5Mm)
10	98-9469	3	Piston (STD)
20	98-9619	3	Piston Ring ASM (0.5Mm)
20	98-9618	3	Piston Ring ASM (STD)
30	98-9513	3	Pin-Piston
40	98-9514	6	Clip-Circular, Piston Pin
50	98-9516	3	Connecting Rod ASM
60	98-9515	3	Bushing-Pin, Piston
70	98-9517	6	Bolt-Rod, Connecting
80	98-9520	3	Bearing-Rod (0.4Mm)
80	98-9519	3	Bearing-Rod (0.2Mm)
80	98-9518	3	Metal-Crankpin (STD)
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	98-9523	1	Metal Crankshaft (STD)
170	98-9528	1	Bearing-Main (0.2Mm)
170	98-9529	1	Bearing-Main (0.4Mm)
180	98-9524	2	Metal-Crankshaft (STD Set)

Ref	Part No.	Qty.	Description
180	98-9530	2	Bearing-Main (0.2Mm)
180	98-9531	2	Bearing-Main (0.4Mm)
190	98-9556	1	Bearing-Main (STD)
190	105-3719	1	Metal-Crankshaft (.2Mm)
190	105-3720	1	Metal-Crankshaft (.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)



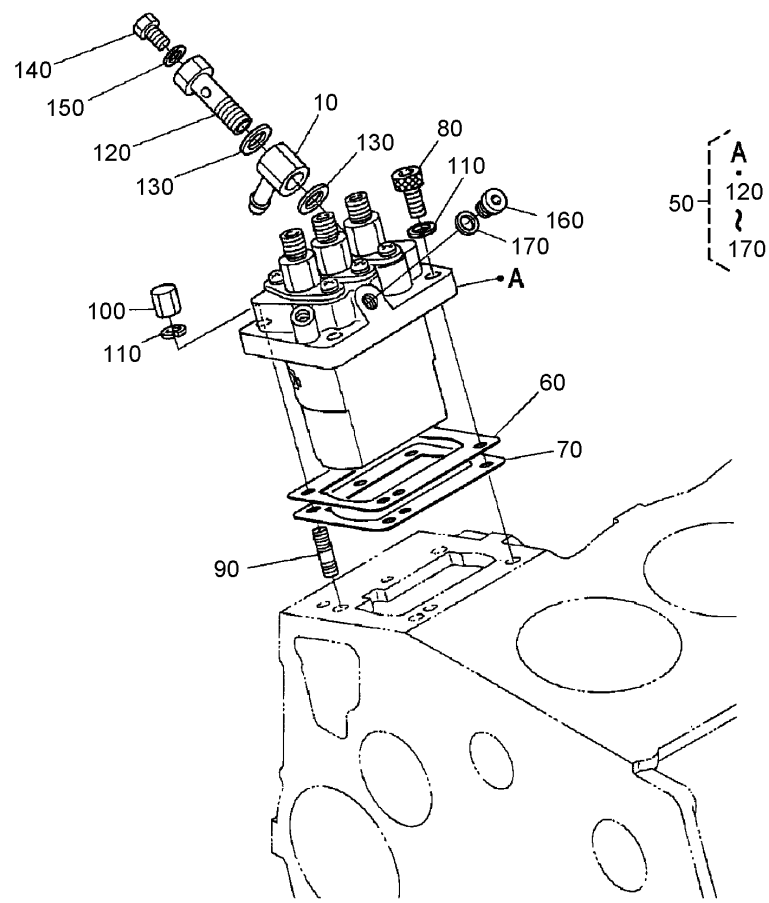
Fuel Camshaft and Governor Shaft Assembly

Ref	Part No.	Qty.	Description				
10	98-9459	1	Camshaft-Fuel				
20	107-9077	1	Bearing-Ball				
30	107-9078	1	Bearing-Ball				
40	98-9590	1	Nut-Cap				
50	98-9595	1	Key-Woodruff				
60	98-9669	1	Gear-Pump, Injection				
70	98-9511	1	Stopper-Fuel, Camshaft				
80	98-9350	2	Bolt				
90	98-9644	1	Governor Shaft ASM				
100	98-9562	1	Holder-Gear, Governor				
110	98-9673	1	Gear-Governor				
120	98-9561	1	Holder-Weight, Governor				
130	98-9559	2	Governor Weight ASM				
140	98-9560	2	Shaft-Weight, Governor				
145	98-9692	2	Roller				
150	98-9563	1	Sleeve-Governor				
160	98-9564	1	Washer-Thrust				
170	107-9079	1	Bearing-Ball				
180	98-9657	1	Clip-Circular, Governor Shaft				
190	98-9565	1	Screw-Set				



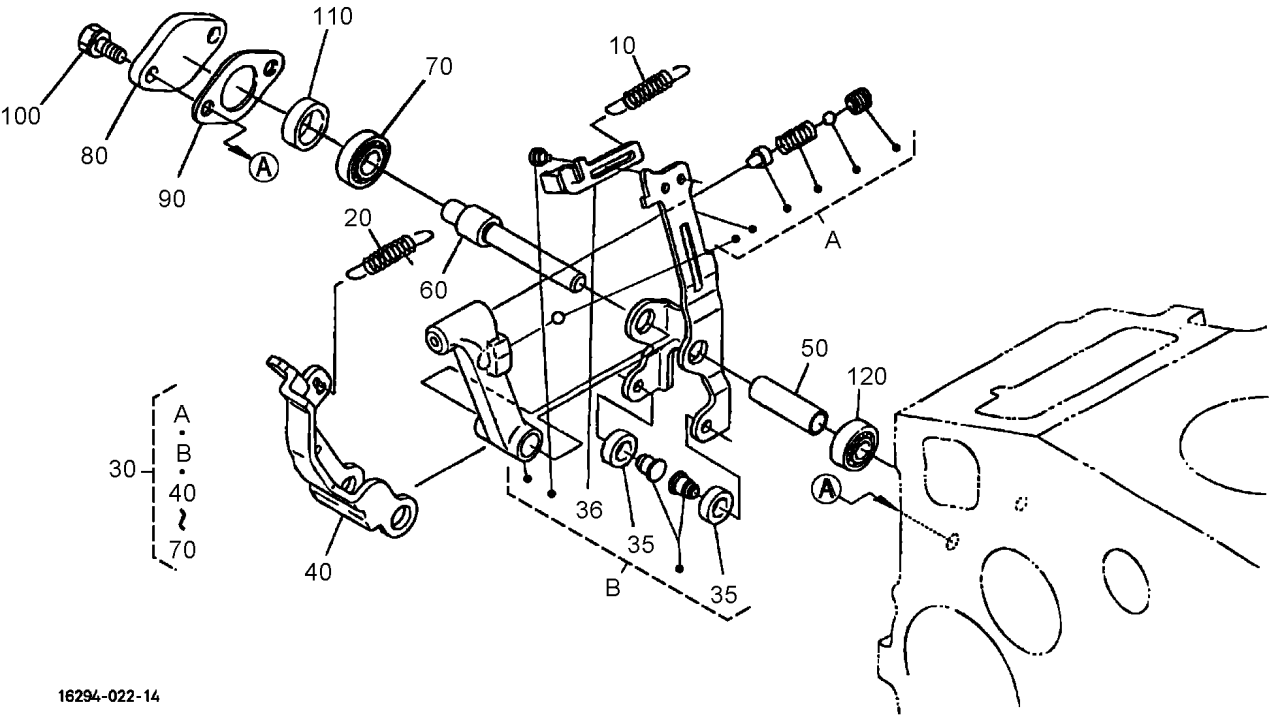
Idle Apparatus Assembly

Ref	Part No.	Qty.	Description				
10	98-9678	1	Idle Apparatus ASM				
20	98-9679	1	Adjusting Bolt ASM				
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	99-3512	1	Nut				
90	99-8387	1	Nut-Cap				
100	98-7654	1	Gasket				
110	107-9081	1	Gasket				
130	104-5155	1	Solenoid-Stop				
140	105-3799	2	Bolt-HSH				
150	98-7699	2	Washer-Spring				
160	99-3514	1	Cover				
170	98-9636	1	Gasket-Pump, Fuel				
180	98-7572	2	Nut				
190	98-7699	2	Washer-Spring				
200	98-9640	1	Cover-Pump				



Injection Pump Assembly

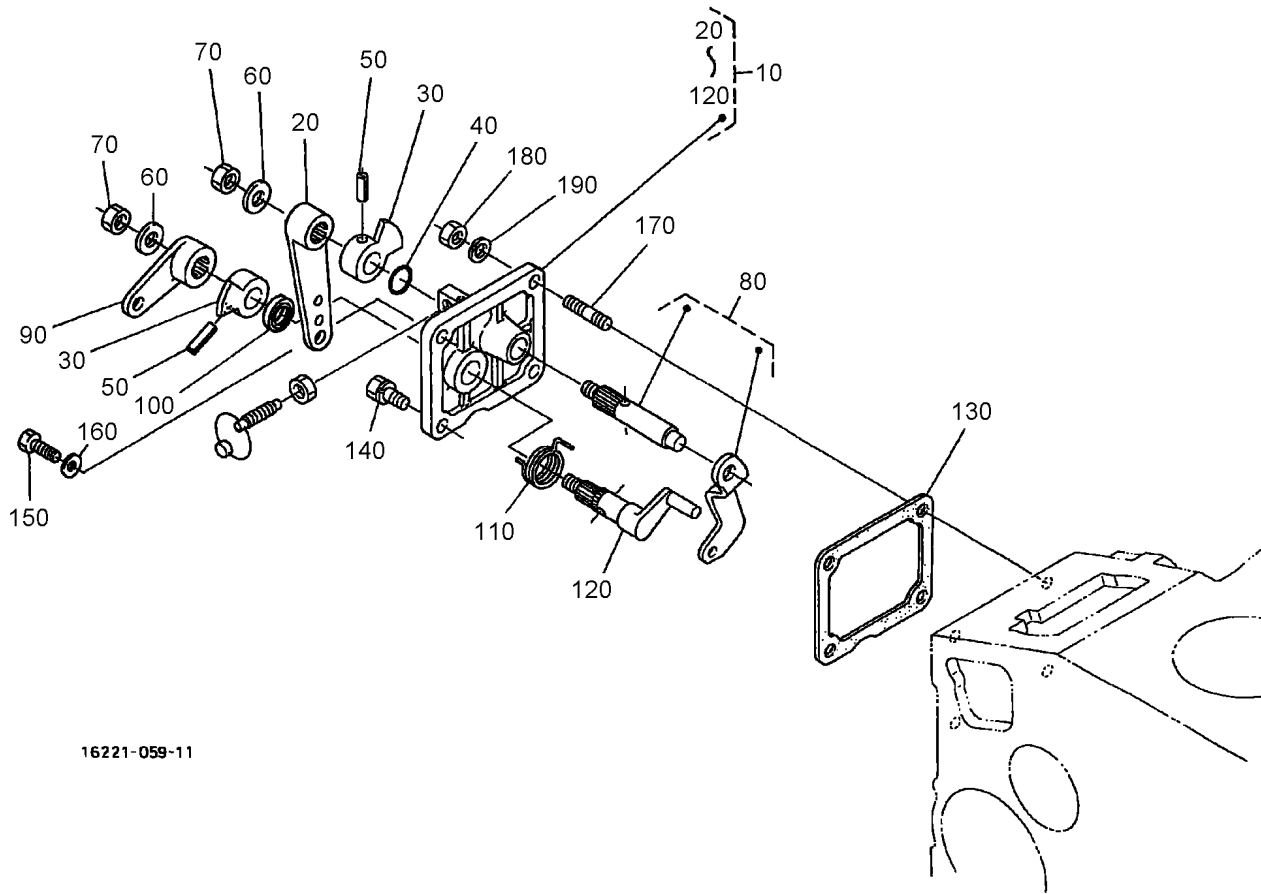
Ref	Part No.	Qty.	Description				
10	98-9596	1	Joint-Eye				
50	98-9643	1	Injection Pump ASM				
60	98-9457	1	Shim-Injection (0.25Mm)				
60	98-9456	1	Shim (0.2Mm)				
70	98-9458	1	Shim-Injection (0.30Mm)				
80	98-9361	2	Bolt-HSH				
90	98-9438	2	Stud				
100	98-9440	2	Nut-Cap				
110	98-7699	4	Washer-Spring				
120	98-9464	1	Bolt-Joint				
130	98-9445	2	Gasket				
140	98-9430	1	Screw				
150	98-9446	1	Gasket				
160	98-9466	1	Plug				
170	98-9451	1	Gasket				



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Governor Assembly

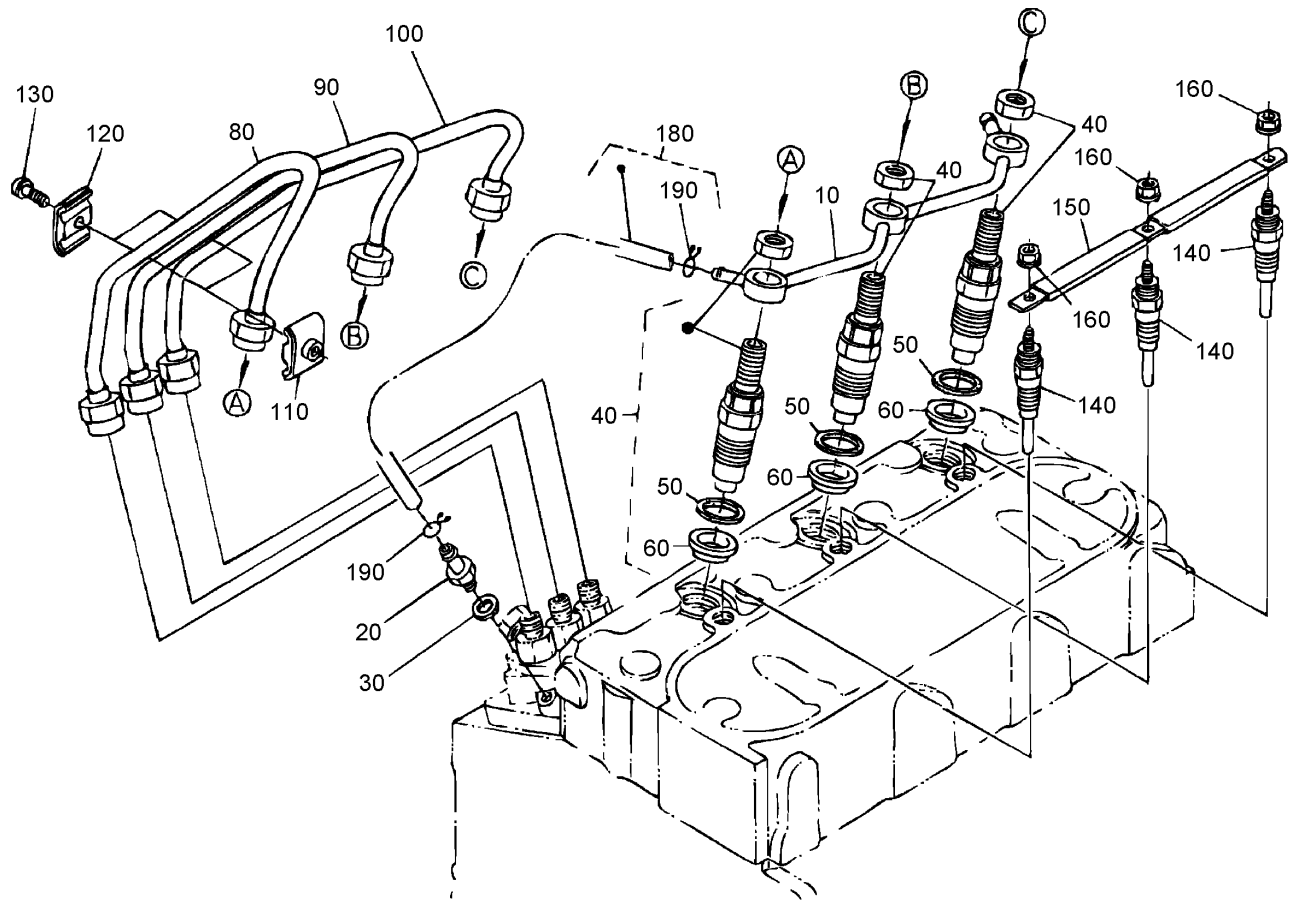
Ref	Part No.	Qty.	Description				
10	105-3786	1	Spring-Start				
20	98-9681	1	Spring-Governor				
30	107-9082	1	Fork Lever ASM				
35	98-9692	2	Roller				
36	107-9083	1	Lever-Thrust				
40	107-9084	1	Lever-Fork				
50	107-9085	1	Shaft-Lever, Fork				
60	107-9086	1	Shaft-Lever, Fork				
70	98-9570	1	Bearing-Miniaturize				
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				



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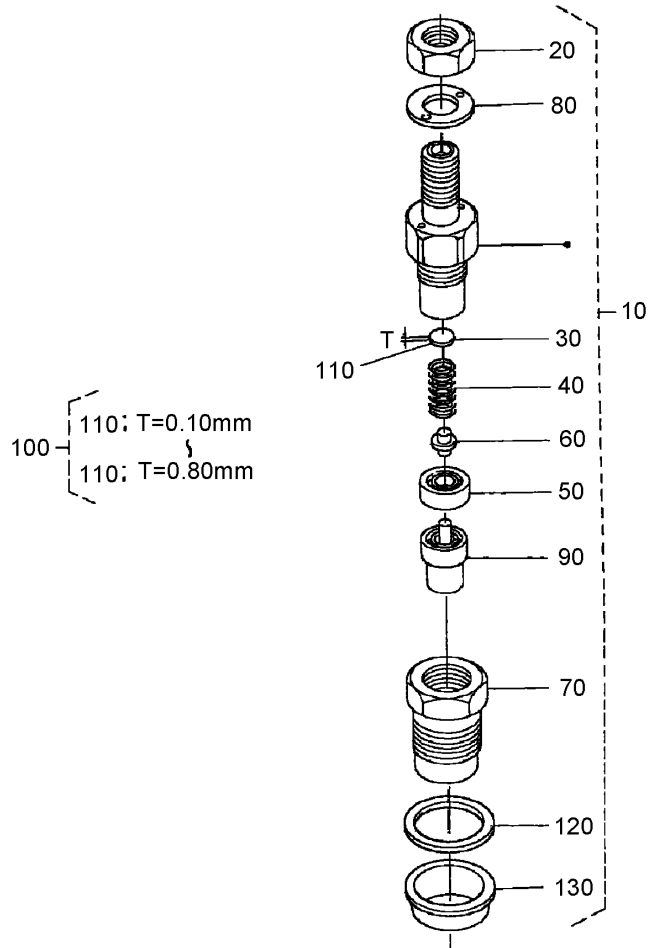
Speed Control Plate Assembly

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	2	Gasket				
170	105-3710	2	Stud				
180	98-7572	2	Nut				
190	98-7699	2	Washer-Spring				



Nozzle Holder and Glow Plug Assembly

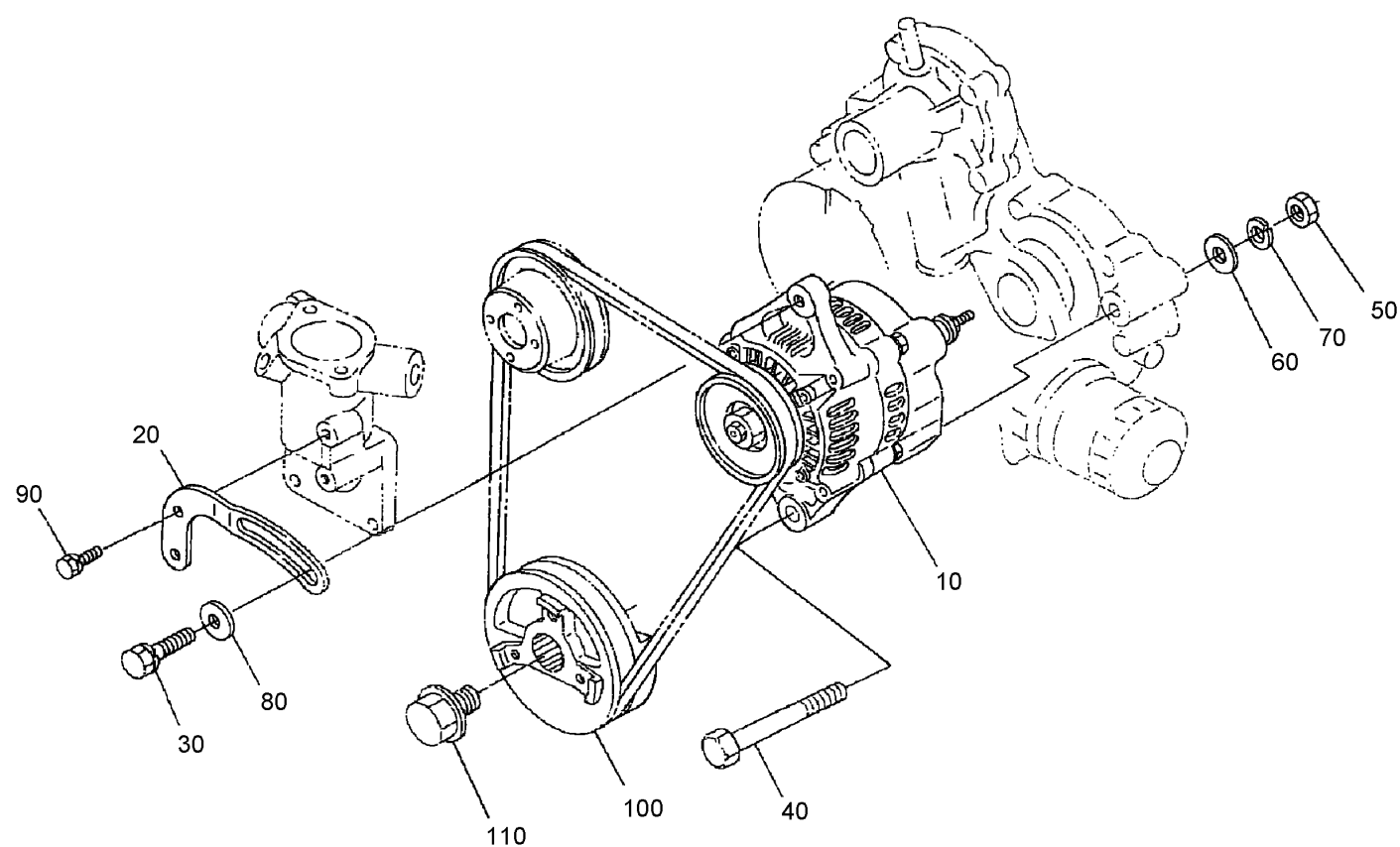
Ref	Part No.	Qty.	Description				
10	98-9620	1	Over Flow Pipe ASM				
20	98-9431	1	Screw-Bleeder				
30	98-7654	1	Gasket				
40	108-2866	3	Nozzle Holder Kit				
50	98-7676	3	Gasket				
60	98-7677	3	Seal				
80	98-9653	1	Pipe-Injection				
90	98-9654	1	Pipe-Injection				
100	98-9655	1	Pipe-Injection				
110	98-7682	2	Clamp-Pipe				
120	98-7683	2	Clamp-Pipe				
130	98-7684	2	Screw W/Washer ASM				
140	98-9695	3	Plug-Glow				
150	98-9631	3	Cord-Plug, Glow				
160	99-8377	3	Nut-Flange				
180	98-9420	1	Over Flow Pipe ASM				
190	98-7671	2	Clip-Pipe				



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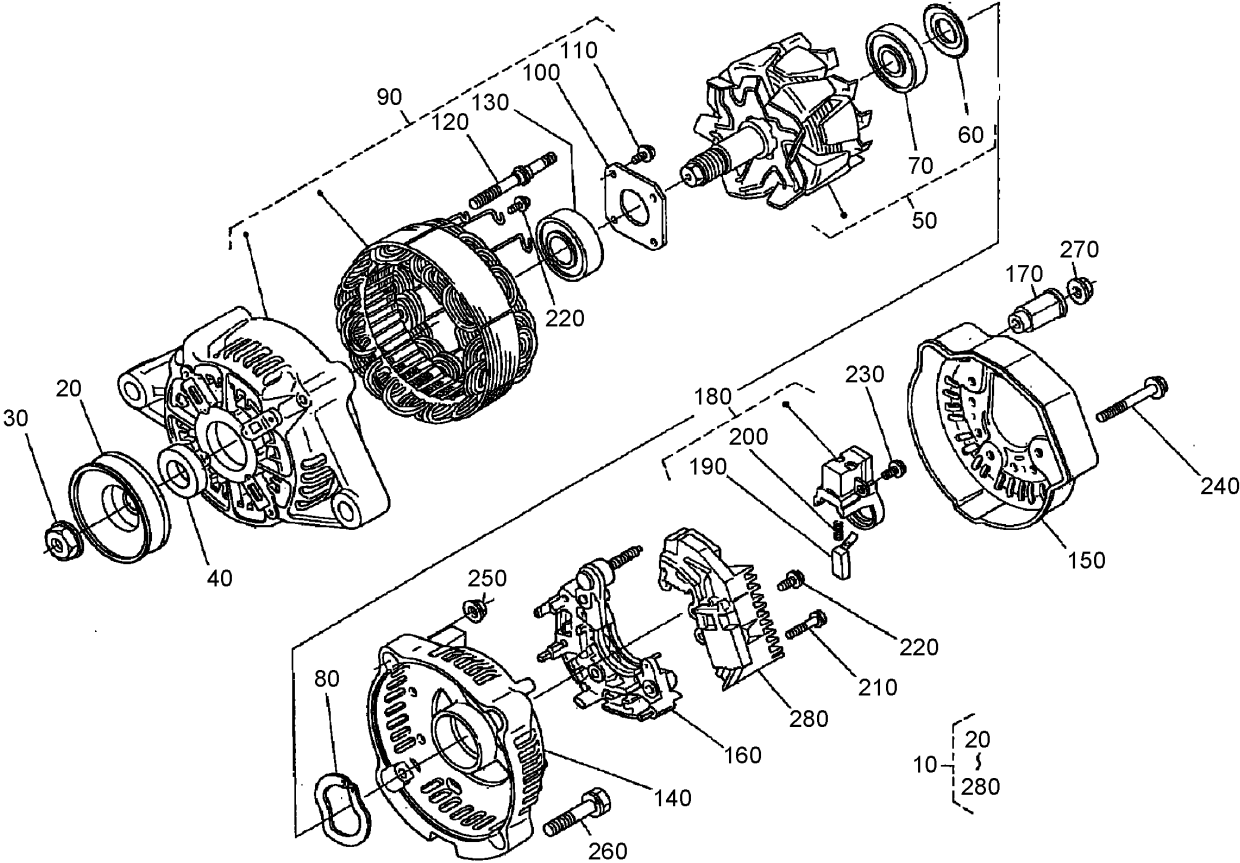
Nozzle Holder (Component Part) Assembly

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

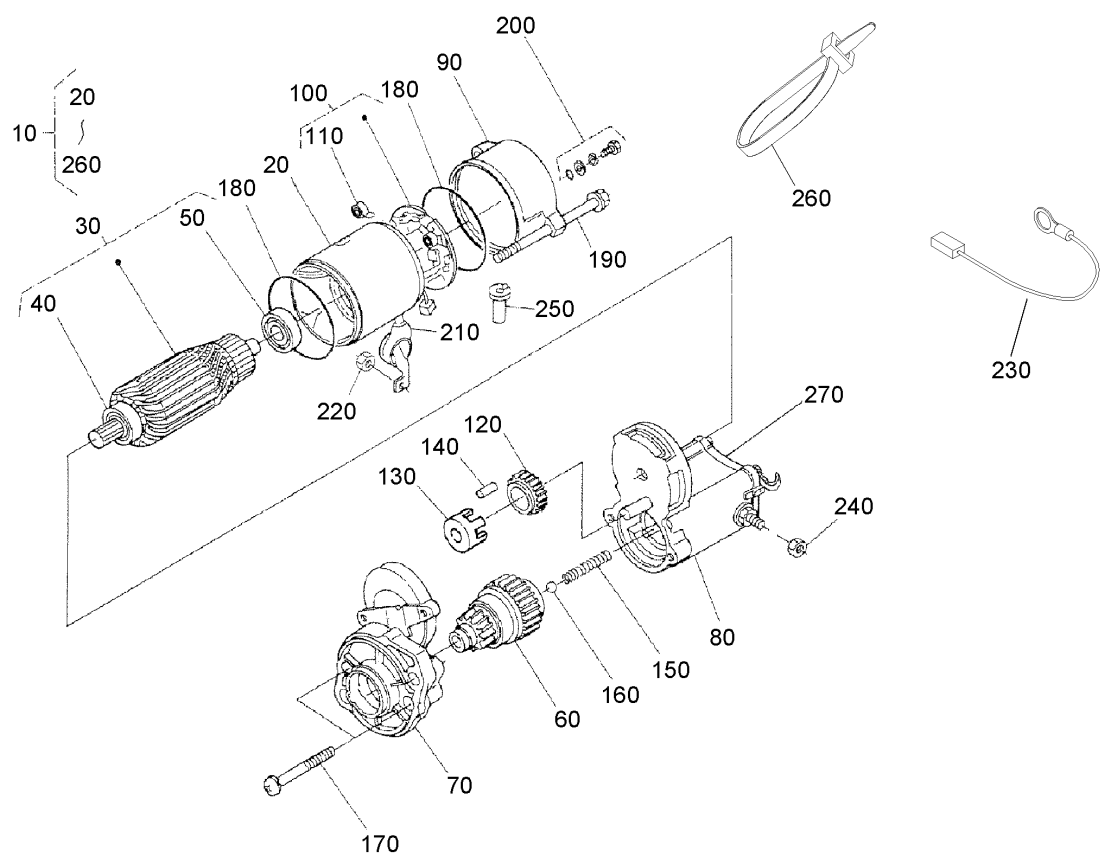
Ref	Part No.	Qty.	Description				
10	98-9474	1	Alternator ASM				
20	98-9573	1	Stay-Dynamo				
30	108-7088	1	Bolt				
40	98-9360	1	Bolt				
50	98-7737	1	Nut				
60	3256-24	1	Washer-Flat				
70	98-7738	1	Washer-Spring				
80	100-9233	1	Washer-Plain				
90	98-7692	1	Bolt				
100	98-9473	1	Pulley-Drive, Fan				
110	98-9585	1	Bolt				



Alternator 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

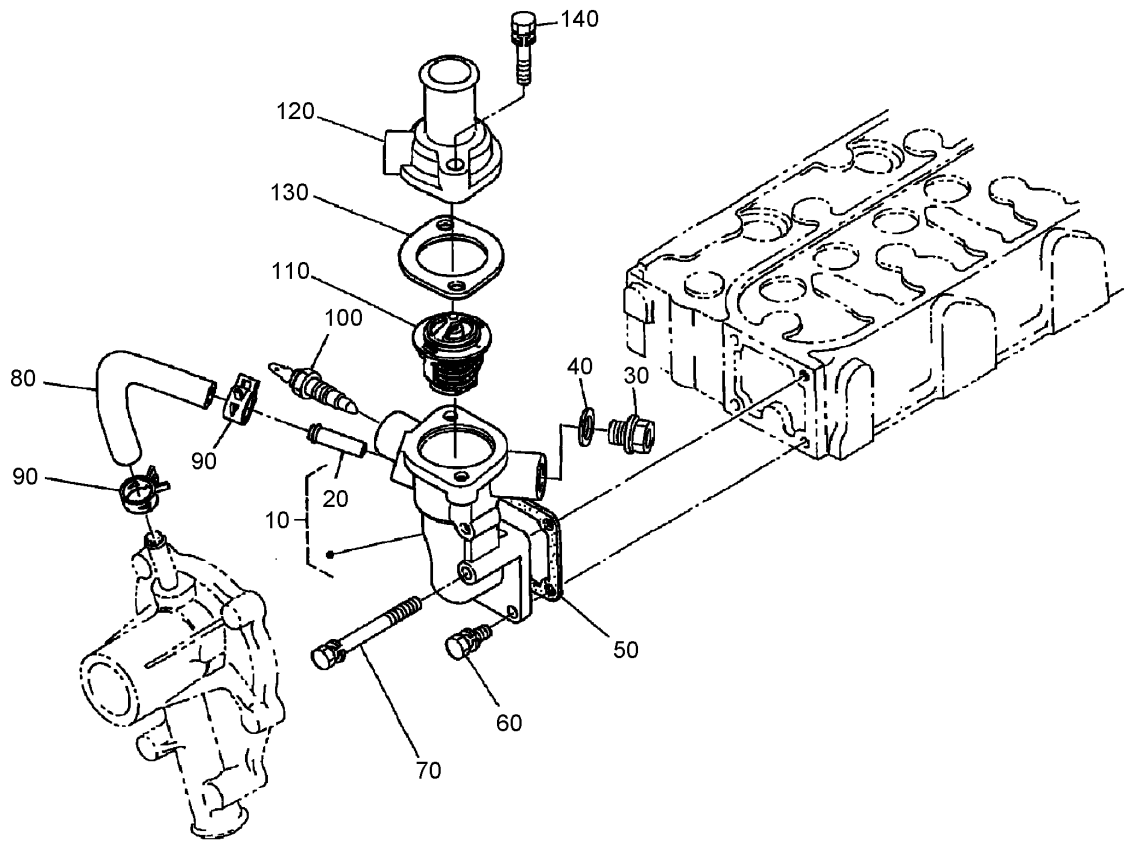
Ref	Part No.	Qty.	Description
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	107-9088	1	Regulator ASM



Starter Assembly

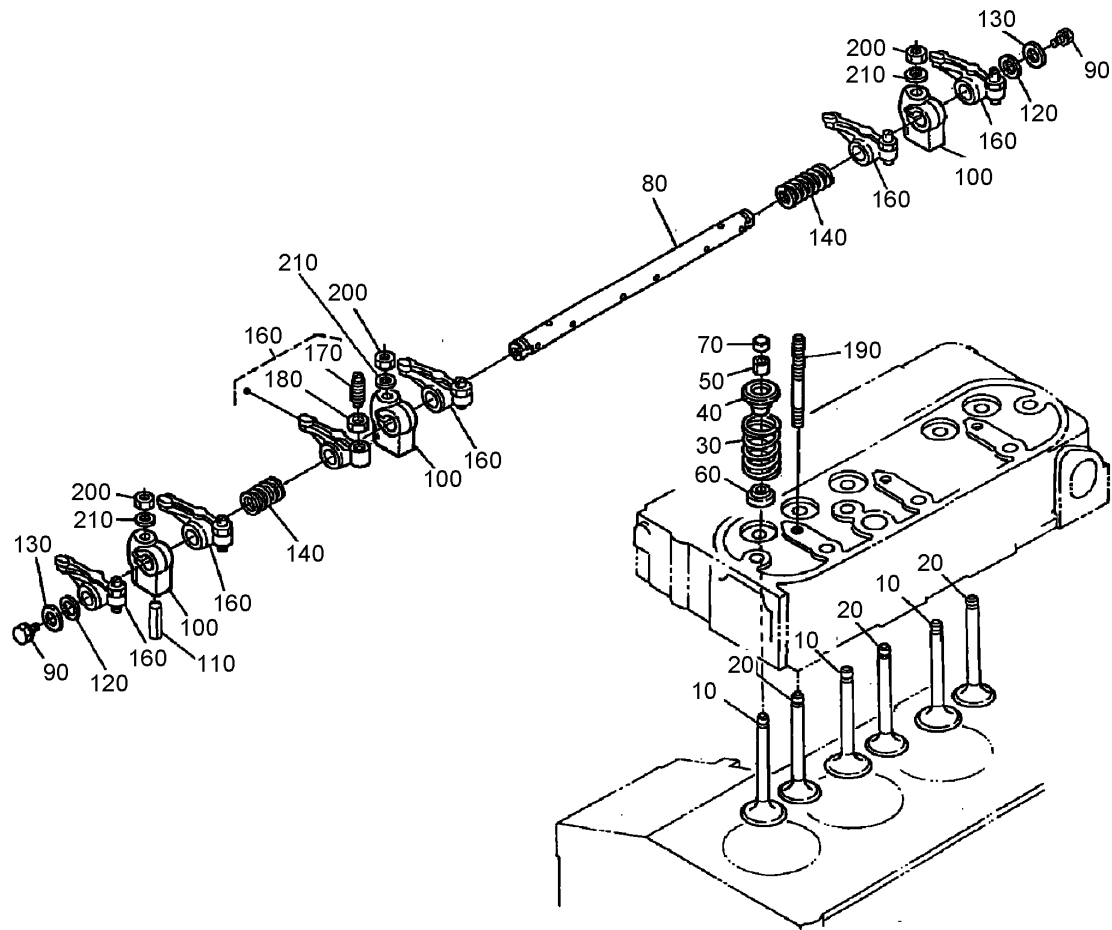
Ref	Part No.	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	98-7750	4	Spring-Brush
120	98-7751	1	Gear
130	98-7752	1	Retainer
140	98-7753	5	Roller
150	98-7754	1	Spring
160	98-7755	1	Ball
170	98-7756	2	Bolt
180	98-7757	2	O-Ring
190	100-9240	2	Bolt
200	98-7758	2	Bolt ASM
210	99-8375	1	Cover
220	99-8371	1	Nut-Hex
230	98-9711	1	Cord-Solenoid, Stop
240	99-8376	1	Nut-Hex

Ref	Part No.	Qty.	Description
250	98-7759	1	Pipe-Drain
260	98-9712	1	Band-Cover
270	105-2886	1	Cover ASM



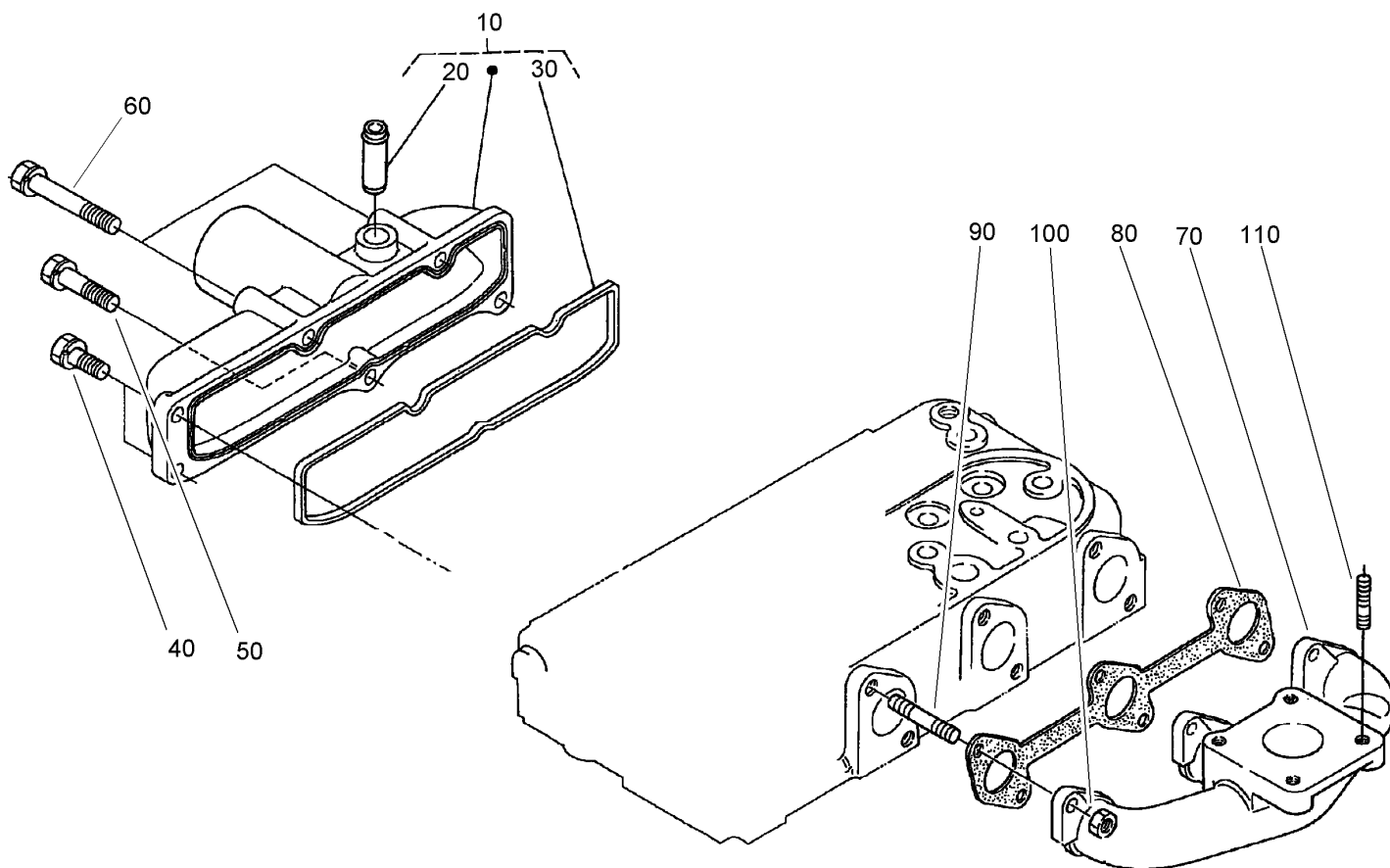
Water Flange and Thermostat Assembly

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	98-9471	1	Cover-Thermostat				
130	105-3748	1	Gasket-Thermostat				
140	98-7777	2	Bolt				



Valve and Rocker Arm Assembly

Ref	Part No.	Qty.	Description				
10	98-9494	3	Valve-Inlet				
20	98-9495	3	Valve-Exhaust				
30	98-9648	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	3256-1	2	Washer-Flat				
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				



Inlet Manifold Assembly

Ref	Part No.	Qty.	Description				
10	108-6577	1	Inlet Manifold ASM				
20	98-9492	1	Joint-Pipe, Breather				
30	98-9609	1	Gasket				
40	98-7605	3	Bolt				
50	98-9353	1	Bolt				
60	105-3797	2	Bolt				
70	107-9093	1	Manifold-Exhaust				
80	98-9610	1	Gasket				
90	98-9588	6	Stud				
100	98-9665	6	Nut				
110	98-7769	4	Stud				

Attachments and Accessories

For 30630 - Groundsmaster 328-D

Product Name	Model/Part
Jack Pad Kit	106-4386
2-Wheel Drive Rear Axle Kit	106-8060
Tire Chains 23 x 8.50-12	11-0390
Wheel Weight Kit	11-0440
Tube-Inner, 23 x 8.50-12	231-90
Rear Weight Kit	24-5780
Weight-Rear	24-5790-01
Standard Seat Kit	30623
Deluxe Seat Kit	30625
Seat Adapter Kit	30628
Cruise Control Kit	30677
Arm Rest Kit	30707
72in Rear Discharge Mower	30710
Quick Attach Adapter Kit	30711
72in Guardian Recycler Mower	30716
Mowers and Boom Quick Attach Adapter Kit	30719
72in Side Discharge Mower	30722
Recycler Mower Quick Attach Adapter Kit	30729
Rotary Broom	30743
48in V-Plow	30750
48in V-Plow Mounting Kit	30757
72in Mower Mulching Kit	30799
Debris Blower	30855
4-Ply Wide Wheel and Tire ASM	62-7020
Wheel And Tire ASM	69-9870
Spark Arrestor Screen	75-6880

