



## Groundsmaster<sup>®</sup> 3280-D 4-Wheel Drive Traction Unit

Model No. 30345 - 270000601 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.

# Contents

<b>Description</b>	<b>Page</b>	<b>Description</b>	<b>Page</b>
Frame and Hood Assembly	..... 4	Hydraulic Cylinder Assembly No. 99-2415	..... 34
Frame Assembly No. 108-2010	..... 5	Driveshaft Assembly No. 98-5009	..... 35
Fuel Tank and Control Panel Assembly	..... 6	Front Axle Assembly	..... 36
Power Steering Assembly	..... 8	Front Axle Assembly No. 108-6599-03	..... 37
Traction Pedal Assembly	..... 9	Right and Left Hand Brake Assembly	..... 39
Brake Pedal Assembly	..... 10	Engine Assembly No. 1	..... 40
Battery and Engine Mount Assembly	..... 11	Engine Assembly No. 2	..... 41
Power-Take-Off and Shaft Assembly	..... 12	Air Cleaner and Drive Coupling Assembly	..... 42
Hydraulic Cylinder and Lift Arm Assembly	..... 13	Air Cleaner Assembly No. 104-3427	..... 43
Hydraulic Valve Assembly No. 114-2877	..... 14	Crankcase Assembly	..... 44
Hydraulic Manifold Assembly No. 114-2863	..... 15	Oil Pan Assembly	..... 45
Radiator Assembly	..... 16	Cylinder Head Assembly	..... 46
Transmission Installation Assembly	..... 17	Gear Case Assembly	..... 47
Center Section Assembly Transmission Assembly No. 108-1355	..... 18	Head Cover Assembly	..... 48
Neutral Return Arm Assembly Transmission Assembly No. 108-1355	..... 20	Dipstick and Guide Assembly	..... 49
Fuel Delivery System Assembly	..... 21	Main Bearing Case Assembly	..... 50
Lower Control Panel Assembly	..... 22	Camshaft and Idle Gear Shaft Assembly	..... 51
Driveshaft and 4 Wheel Drive Assembly	..... 23	Piston and Crankshaft Assembly	..... 52
Rear Axle Assembly	..... 24	Flywheel Assembly	..... 53
Bevel Pinion Shaft Assembly Rear Axle Assembly No. 106-1120	..... 25	Fuel Camshaft and Governor Shaft Assembly	..... 54
Differential Assembly Rear Axle Assembly No. 106-1120	..... 26	Idle Apparatus Assembly	..... 55
Axle Support Assembly Rear Axle Assembly No. 106-1120	..... 27	Injection Pump Assembly	..... 56
Bevel Gearcase Assembly Rear Axle Assembly No. 106-1120	..... 28	Governor Assembly	..... 57
Bevel Gear Shaft Assembly Rear Axle Assembly No. 106-1120	..... 29	Speed Control Plate Assembly	..... 58
Axle Case Assembly Rear Axle Assembly No. 106-1120	..... 30	Nozzle Holder and Glow Plug Assembly	..... 59
Axle Assembly Rear Axle Assembly No. 106- 1120	..... 31	Nozzle Holder Assembly	..... 60
Bi-Directional Clutch Assembly No. 95-6296	..... 32	Alternator and Pulley Assembly	..... 61
Tie Rod Assembly No. 98-3871-03	..... 33	Alternator Components	..... 62
		Starter Assembly	..... 63
		Starter Component Assembly	..... 64
		Water Flange and Thermostat Assembly	..... 65
		Water Pump Assembly	..... 66
		Valve and Rocker Arm Assembly	..... 67
		Inlet Manifold Assembly	..... 68
		Muffler Gasket and Operator Manual	..... 69
		Upper and Lower Gasket Kits	..... 70
		Attachments and Accessories List	..... 71

## Part Description Abbreviations

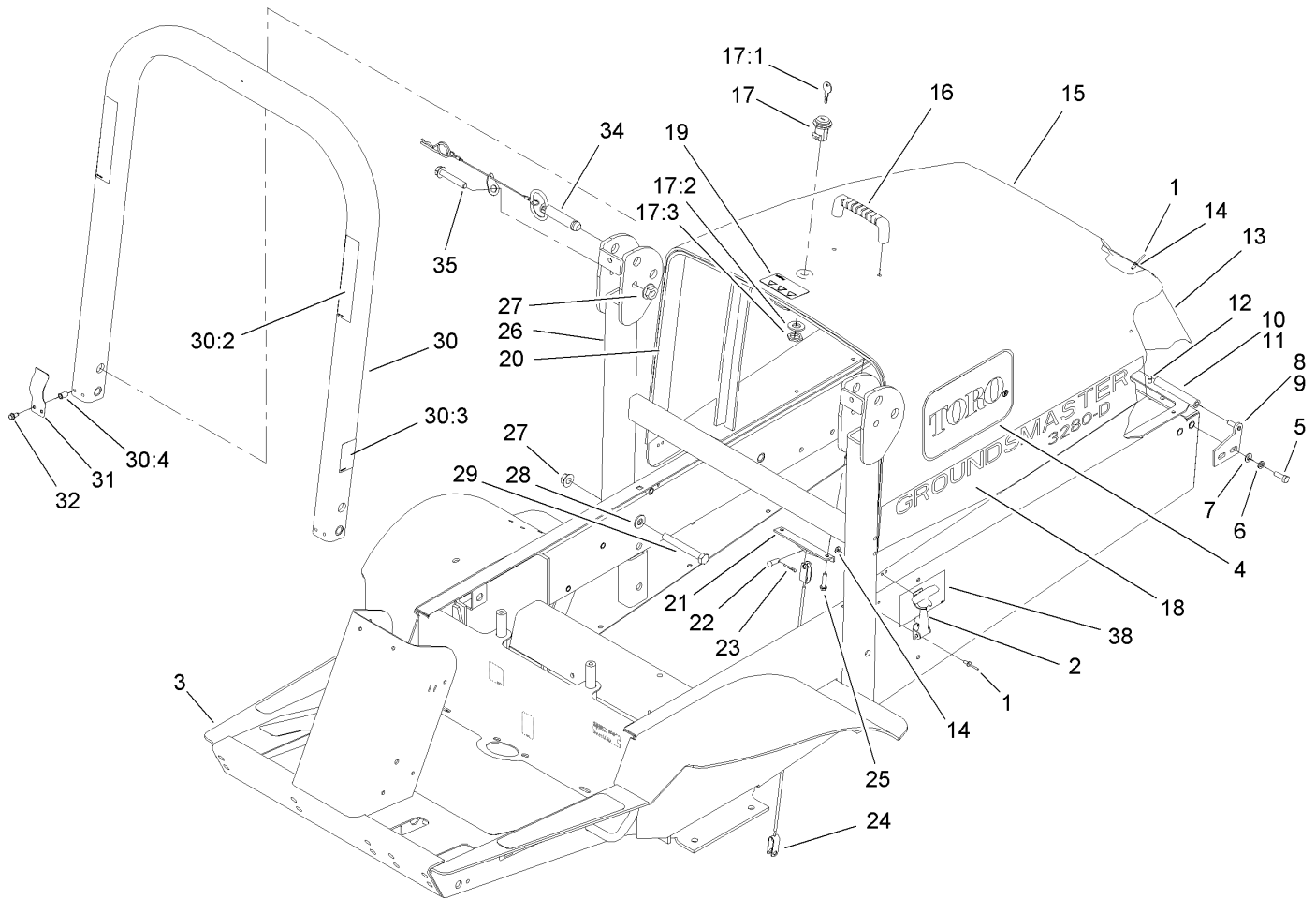
Part descriptions in this catalog may include the following abbreviations.

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

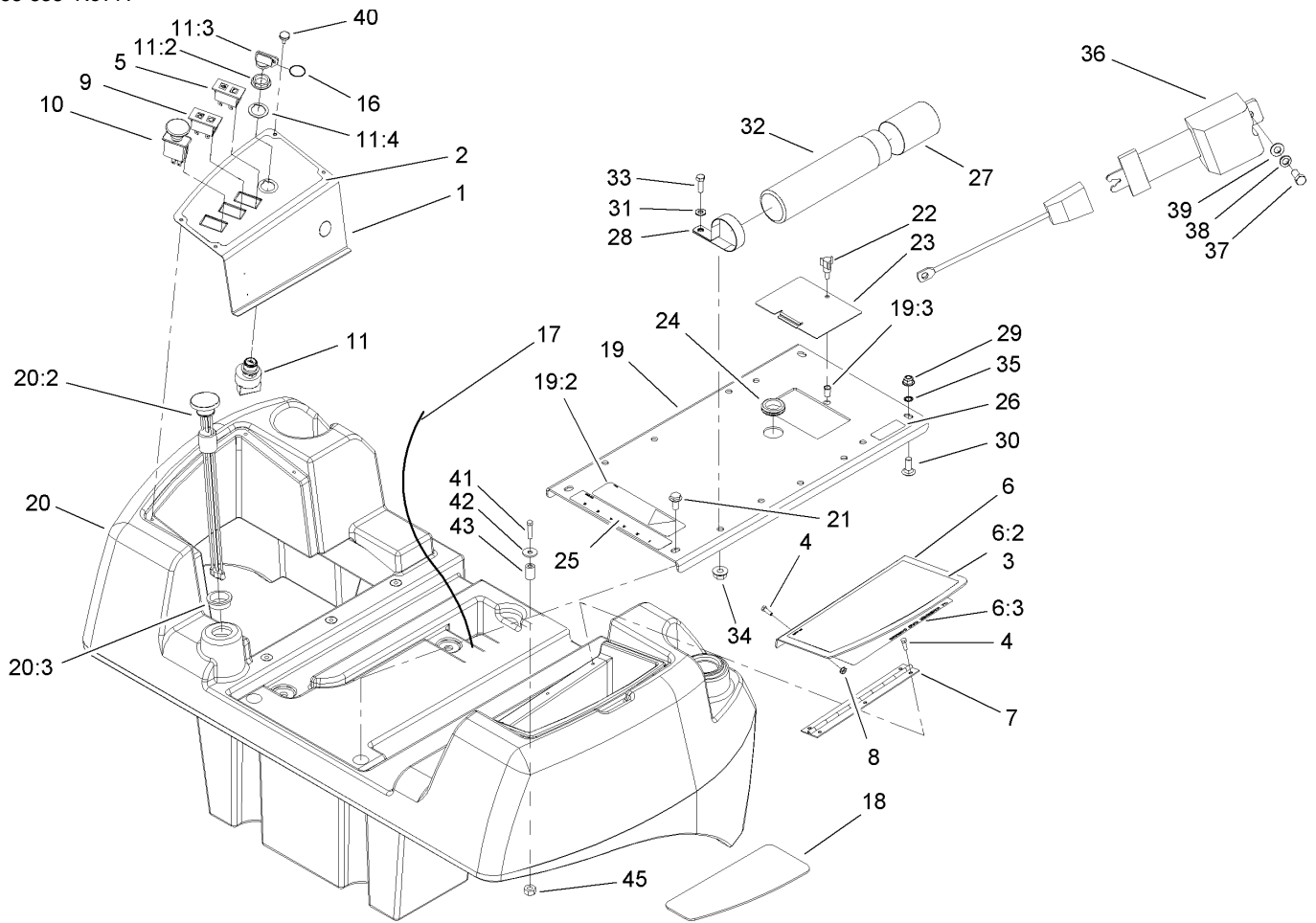


## Frame and Hood Assembly

Ref	Part No.	Qty.	Description
1	3269-4	18	Rivet-Pop
2	95-6339	2	Latch
3	108-2010	1	Frame ASM
4	66-6140	2	Decal
5	322-5	4	Screw-HH
6	3253-4	4	Washer-Lock
7	3256-23	4	Washer-Flat
8	105-0003-01	1	RH Hinge Pin ASM
9	105-0004-01	1	LH Hinge Pin ASM
10	105-4278-03	1	LH Hood Hinge ASM
11	105-4277-03	1	RH Hood Hinge ASM
12	3290-412	12	Rivet
13	105-0006-03	1	Screen-Hood
14	3256-14	14	Washer-Flat
15	104-3485	1	Hood
16	65-5100	1	Handle-Door
17	98-9315	1	Latch-Locking
17:1	99-8350	2	Key-Latch, Locking
17:2		1	Washer-Switch
17:3		1	Nut-Switch
18	108-2067	2	Decal
19	106-6754	1	Decal-Danger
20	105-3651	1	Strip-Foam
21	105-0088-03	1	Bracket-Cable, Hood

Ref	Part No.	Qty.	Description
22	283-58	2	Pin-Clevis
23	3272-10	2	Pin-Cotter
24	105-3650	1	Cable-Hood
25	46-8092	2	Screw-Plastite
26	110-5693-03	1	Lower ROPS ASM
27	32128-23	6	Nut-HF
28	3256-26	4	Washer-Flat
29	325-18	4	Screw-HH
30	110-5690	1	Upper ROPS ASM
30:2	108-2073	2	Decal-Warning
30:3	108-2074	1	Decal-ROPS
30:4	32148-11	4	Insert-Threaded
31	110-5696	2	Spring-Leaf
32	32144-10	4	Screw-HWH
34	103-4553	2	ROPS Fold Pin ASM
35	325-13	2	Screw-HH
38	94-8099	2	Decal

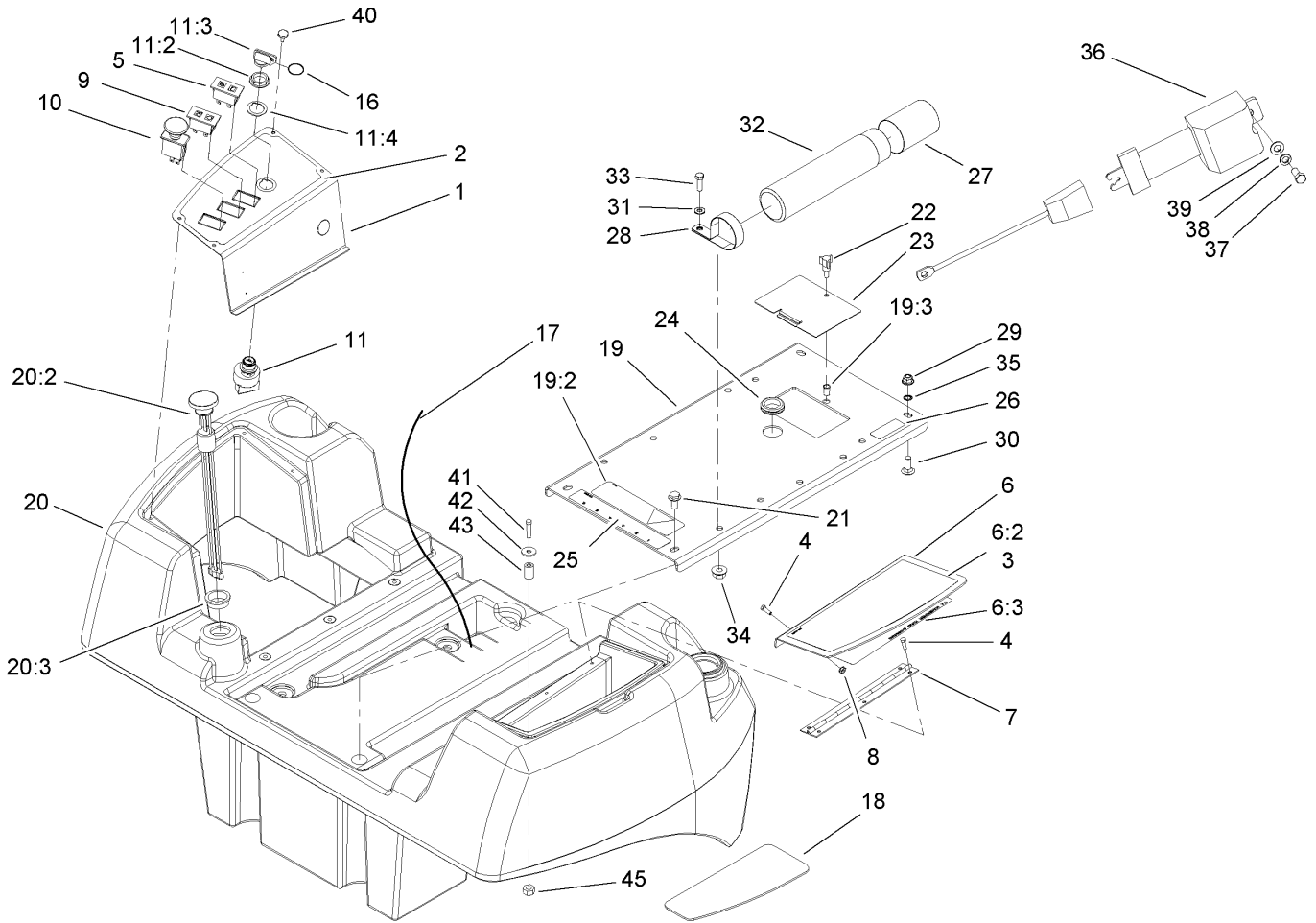




## Fuel Tank and Control Panel Assembly

Ref	Part No.	Qty.	Description
1	108-2017-03	1	Plate-Panel, Control
2	108-2018	1	Decal-Panel, Control
3	108-6585	1	Decal-Danger
4	112-6349	6	Screw-HWH
5	100-8070	1	Lamp-Warning
6	108-6581	1	Cover ASM
6:2	114-2855	1	Decal-Danger
6:3	108-6583	1	Decal-Service
7	108-2024	1	Hinge
8	32149-8	3	Nut-Keps
9	100-8071	1	Lamp-Warning
10	93-9999	1	Switch-PTO
11	106-5269	1	Ignition Switch ASM
11:2	108-8660	1	Nut-Mounting
11:3	106-5270	1	Key Set-Ignition
11:4	108-8659	1	Washer-Backup
16	98-9321	1	Ring-Key
17	108-8657	1	Harness-Wire, Seat
18	108-2013	1	Pad-Rubber
19	108-6580	1	Seat Plate ASM
19:2	93-7841	1	Decal-Warning
19:3	32148-6	1	Insert-Nut
20	108-6596	1	Fuel Tank ASM
20:2	108-2025	1	Gauge-Fuel

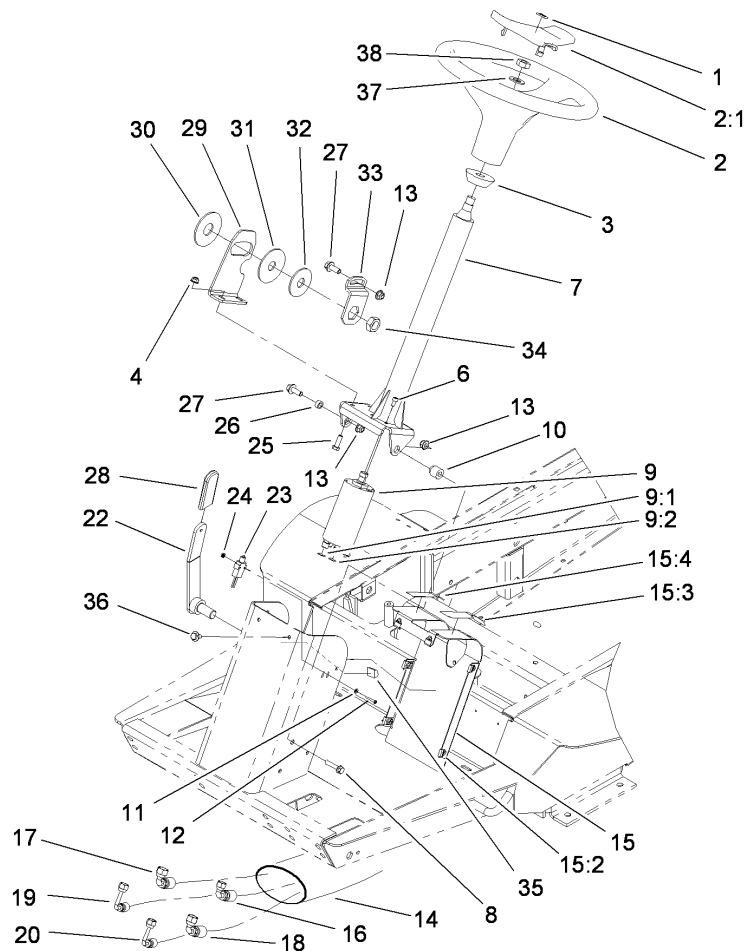
Ref	Part No.	Qty.	Description
20:3	95-8972	1	Grommet
21	3234-1	2	Screw-HHF
22	233-70	1	Knob-Star, Three
23	108-2027-03	1	Cover-Bypass
24	240-5	1	Grommet-Rubber
25	105-2511	1	Decal-Instructions, Starting
26	114-9600	1	Decal-Low Sulfur
27	104-7048	1	Cap-Housing
28	2412-133	2	R-Clamp
29	104-8301	2	Nut-Flange, NI
30	3231-2	2	Screw-CARR
31	3256-23	2	Washer-Flat
32	104-7050	1	Housing-Manual
33	322-5	2	Screw-HH
34	32128-20	2	Nut-HF
35	32151-72	2	Ring-Retaining
36	100-4928	1	Belt-Seat
37	3212-4	2	Screw-HH
38	3253-6	2	Washer-Lock
39	3256-25	2	Washer-Flat
40	108-8689	4	Screw-Thumb
41	321-9	1	Screw-HH
42	3256-55	1	Washer-Flat
43	108-9688	1	Spacer



### Fuel Tank and Control Panel Assembly (continued)

Ref	Part No.	Qty.	Description
45	3296-42	1	Nut-Lock, NI

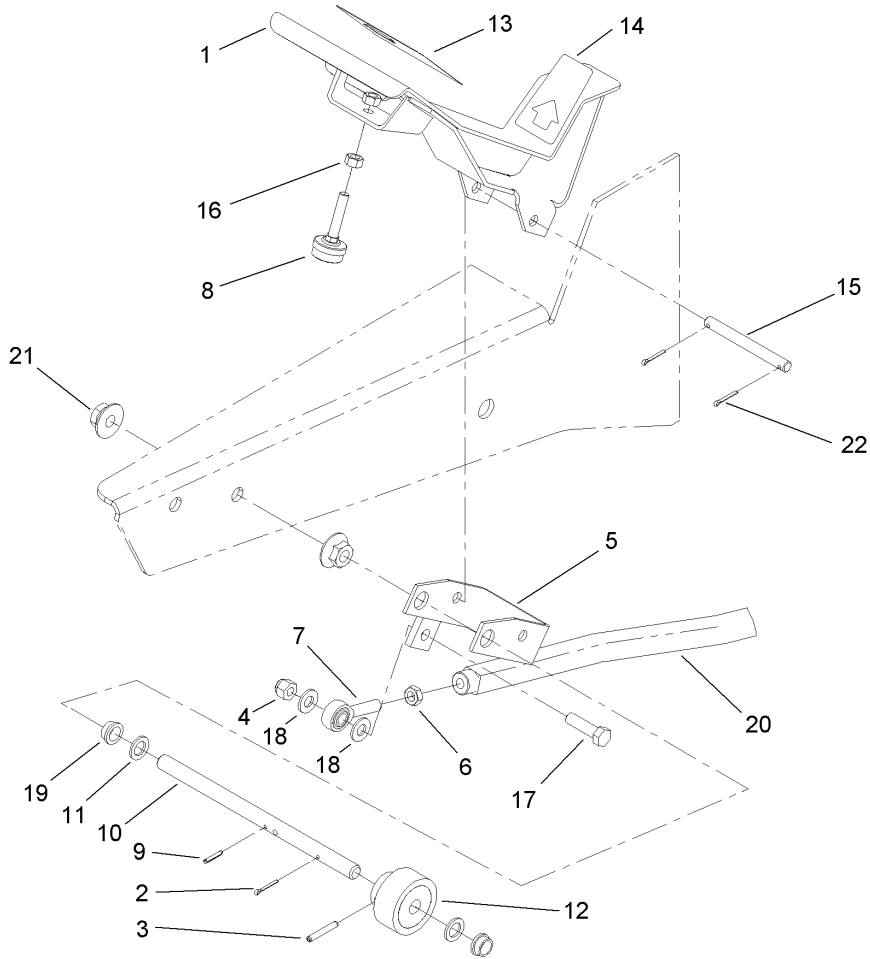
--	--	--	--



## Power Steering Assembly

Ref	Part No.	Qty.	Description
1	98-1459	1	Decal
2	98-1471	1	Wheel-Steering
2:1	98-1468	1	Cover-Wheel, Steering
3	21-9260	1	Cover-Dust
4	104-8300	2	Nut-Flange, NI
6	105-2409	4	Screw-HSH
7	114-2884	1	Column ASM
8	3234-18	1	Screw-HHF
9	108-2077	1	Steering Valve ASM
9:1	237-21	3	O-Ring
9:2	237-22	2	O-Ring
10	105-7166	1	Spacer
11	3256-53	2	Washer-Flat
12	3250-35	2	Screw-PPH
13	104-8301	3	Nut-Flange, NI
14	44-8530	1	Protector-Sleeve
15	105-7180	1	Tower Panel ASM
15:2	105-7170	6	Nut-Retainer
15:3	105-7179	1	Decal-Brake, Parking
15:4	82-8940	1	Decal-Steering, Tilt
16	108-2089	1	Hose ASM
17	108-2081	1	Hose ASM
18	108-2080	1	Hose ASM
19	108-2084	1	Hose ASM

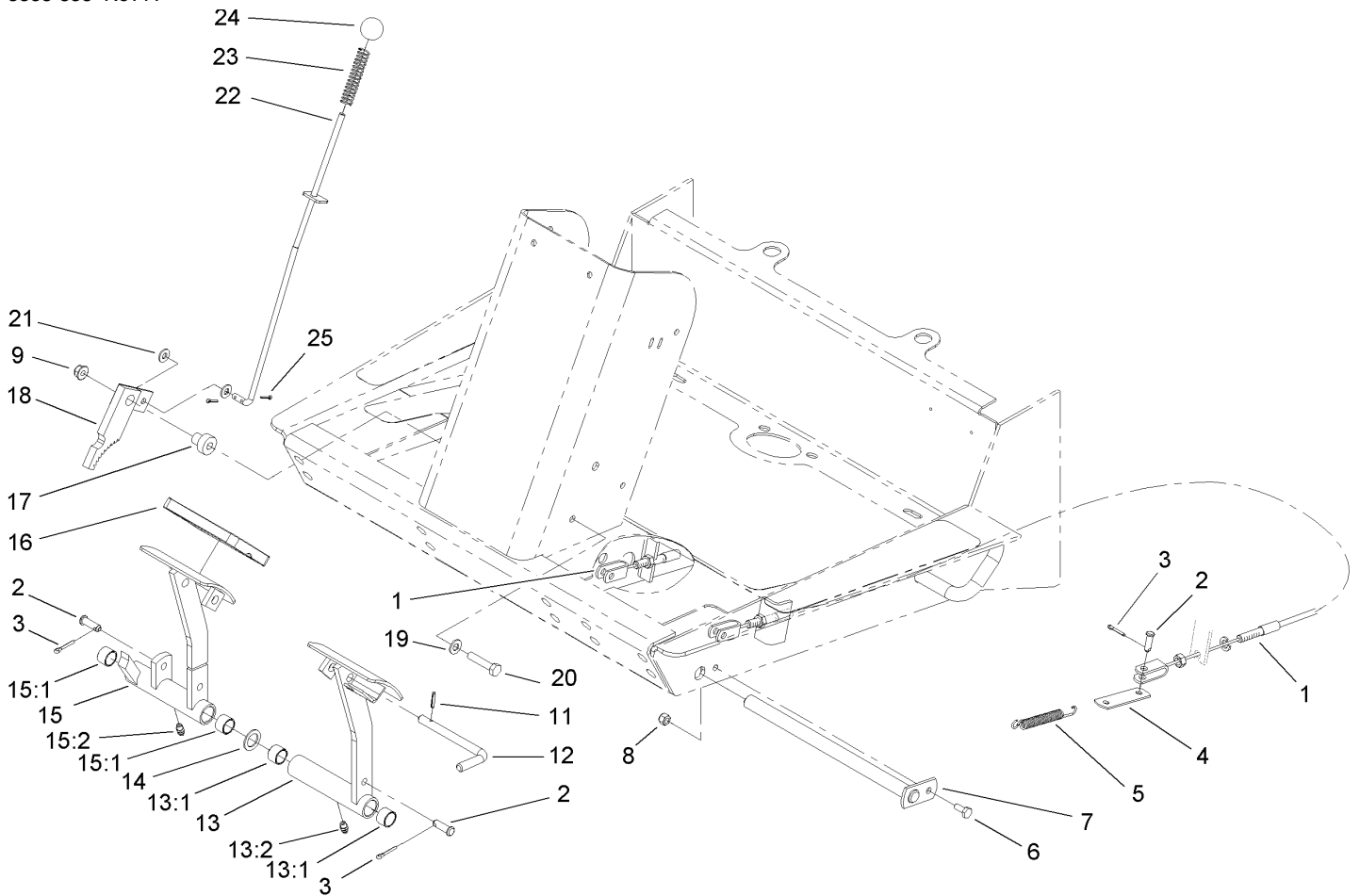
Ref	Part No.	Qty.	Description
20	108-2085	1	Hose ASM
22	108-6092	1	Lever-Tilt Steering
23	99-3410	1	Switch
24	32149-6	2	Nut-Keps
25	322-5	2	Screw-HH
26	80-2960	1	Spacer-Tower
27	3234-42	2	Screw-HHF
28	21-1880	1	Grip-Handle
29	105-7181-03	1	Plate-Pivot
30	31-0390	1	Disc-Friction
31	82-9010	1	Disc-Friction
32	80-2930	1	Washer-Flat
33	80-2880	1	Bracket-Tilt
34	3218-7	1	Nut-Jam
35	105-7188	2	Clamp-Adhesive
36	3250-32	6	Screw-PPH
37	3256-27	1	Washer-Flat
38	3296-33	1	Nut-Lock, NI



## Traction Pedal Assembly

Ref	Part No.	Qty.	Description
1	105-7150-03	1	Pedal ASM
2	3272-6	1	Pin-Cotter
3	32121-6	1	Pin-Roll, Slotted
4	3296-39	1	Nut-Lock, NI
5	92-8854-03	1	Bracket-Pivot
6	3220-3	1	Nut-HJ
7	2411-36	1	Bearing-End, Rod
8	32141-36	1	Screw-Adjustment, Level
9	32121-50	1	Pin-Spring
10	92-5534	1	Shaft-Pedal, Traction
11	5-7570	2	Washer-Flat
12	28-5220	1	Friction Wheel ASM
13	94-3307	1	Pad-Pedal, Traction
14	94-3308	1	Pad-Pedal, Traction
15	92-5537	1	Pin-Pedal, Traction
16	3217-6	2	Nut-Hex
17	323-29	1	Screw-HH
18	3256-24	2	Washer-Flat
19	256-156	2	Bushing-Flange
20	108-8661-03	1	Traction Rod ASM
21	32128-56	2	Nut-HF
22	3272-10	2	Pin-Cotter

--	--	--	--

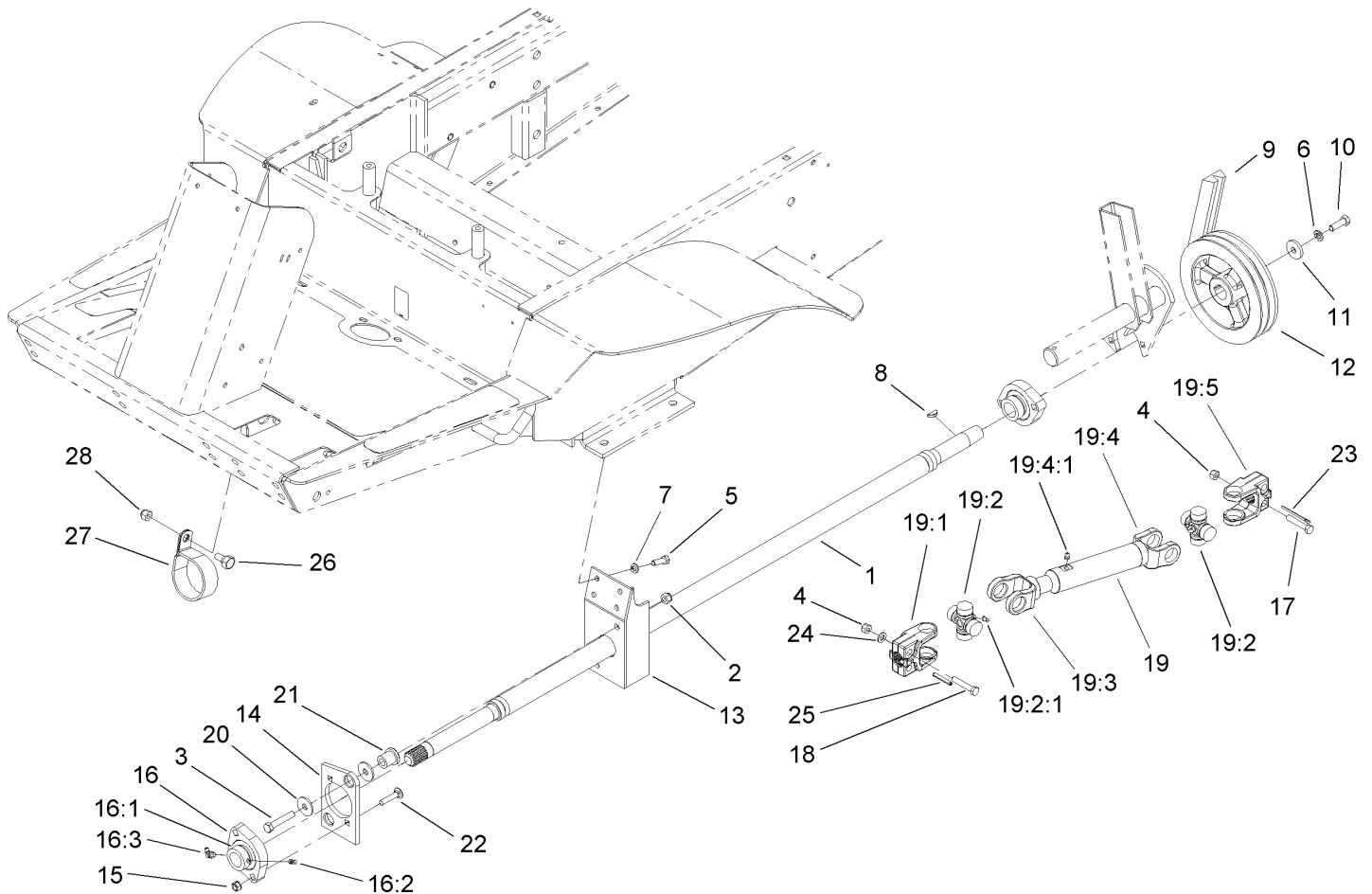


## Brake Pedal Assembly

Ref	Part No.	Qty.	Description
1	108-6556	2	Cable-Brake
2	283-58	4	Pin-Clevis
3	3272-10	4	Pin-Cotter
4	63-6750	2	Link-Cable, Brake
5	3-7243	2	Spring-Extension
6	321-4	1	Screw-HH
7	63-6210-03	1	Pin-Brake
8	3296-42	1	Nut-Lock, NI
9	104-8300	1	Nut-Flange, NI
11	32121-50	1	Pin-Spring
12	63-7880	1	Pin-Latch, Brake
13	63-6180	1	Pedal-Brake, LH
13:1	256-42	2	Bushing
13:2	302-5	1	Fitting-Grease
14	3256-69	2	Washer-Flat
15	63-6190	1	Pedal-Brake, RH
15:1	256-42	2	Bushing
15:2	302-5	1	Fitting-Grease
16	93-8742	2	Footpad-Brake
17	105-7156	1	Spacer
18	63-7900-03	1	Rack ASM
19	3256-23	1	Washer-Flat
20	322-7	1	Screw-HH
21	3256-22	2	Washer-Flat

Ref	Part No.	Qty.	Description
22	105-7168	1	Rod ASM
23	71-8310	1	Spring-Compression
24	233-17	1	Knob
25	3272-5	2	Pin-Cotter

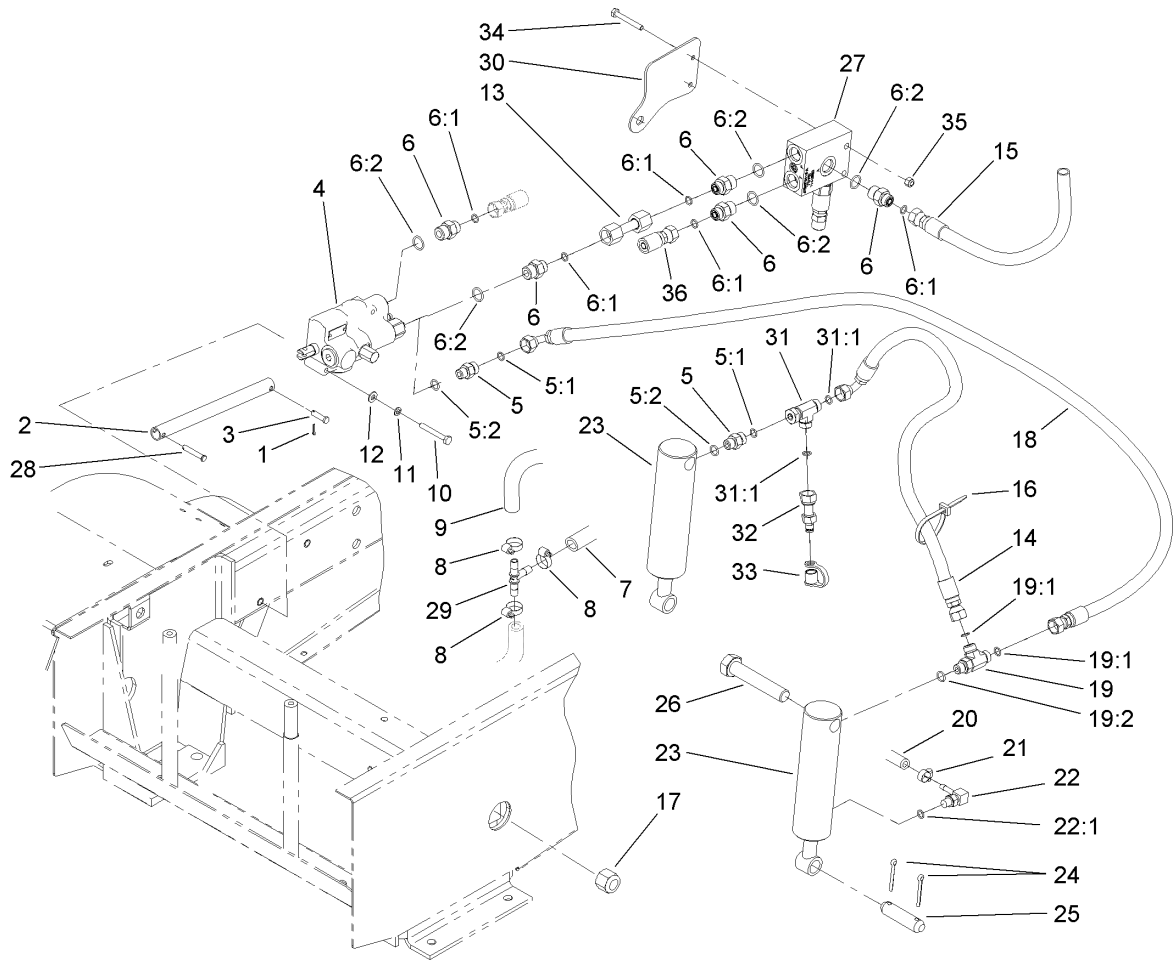




## Power-Take-Off and Shaft Assembly

Ref	Part No.	Qty.	Description
1	92-8855-03	1	Shaft-PTO
2	3296-39	2	Nut-Lock, NI
3	323-10	2	Screw-HH
4	3296-29	5	Nut-Lock, NI
5	322-5	4	Screw-HH
6	3253-21	1	Washer-Lock
7	3253-4	4	Washer-Lock
8	3257-5	1	Key-Woodruff
9	63-6240	1	V-Belt
10	323-18	1	Screw-HH
11	29-4730	1	Washer-Flat
12	43-5320-03	1	Pulley-PTO
13	92-8751-03	1	PTO Bearing Bracket ASM
14	84-7580	1	Plate-Support, Bushing
15	32149-1	2	Nut-Keps
16	92-8799	1	Bearing-Flange
16:1	251-77	1	Collar-Lock, Bearing
16:2	3245-35	1	Screw-Set
16:3	302-40	1	Fitting-Grease
17	322-9	4	Screw-HH
18	322-14	1	Screw-HH
19	108-1366	1	PTO Drive Shaft ASM
19:1	54-9040	1	Yoke-End
19:2	54-9180	2	U-Joint Kit

Ref	Part No.	Qty.	Description
19:2:1	62-3820	1	Fitting-Grease
19:3	108-6550	1	Shaft-Yoke, Slip
19:4	108-6551	1	Tube-Yoke, Slip
19:4:1	302-58	1	Fitting-Straight
19:5	54-9090	1	Yoke-End
20	63-8410	4	Washer
21	63-9750	2	Mount
22	3230-4	2	Screw-CARR
23	3272-15	1	Pin-Cotter
24	3256-23	1	Washer-Flat
25	32121-34	1	Pin-Roll
26	46-3380	1	Bolt-Shoulder
27	2412-102	1	Clamp-R
28	3296-39	1	Nut-Lock, NI



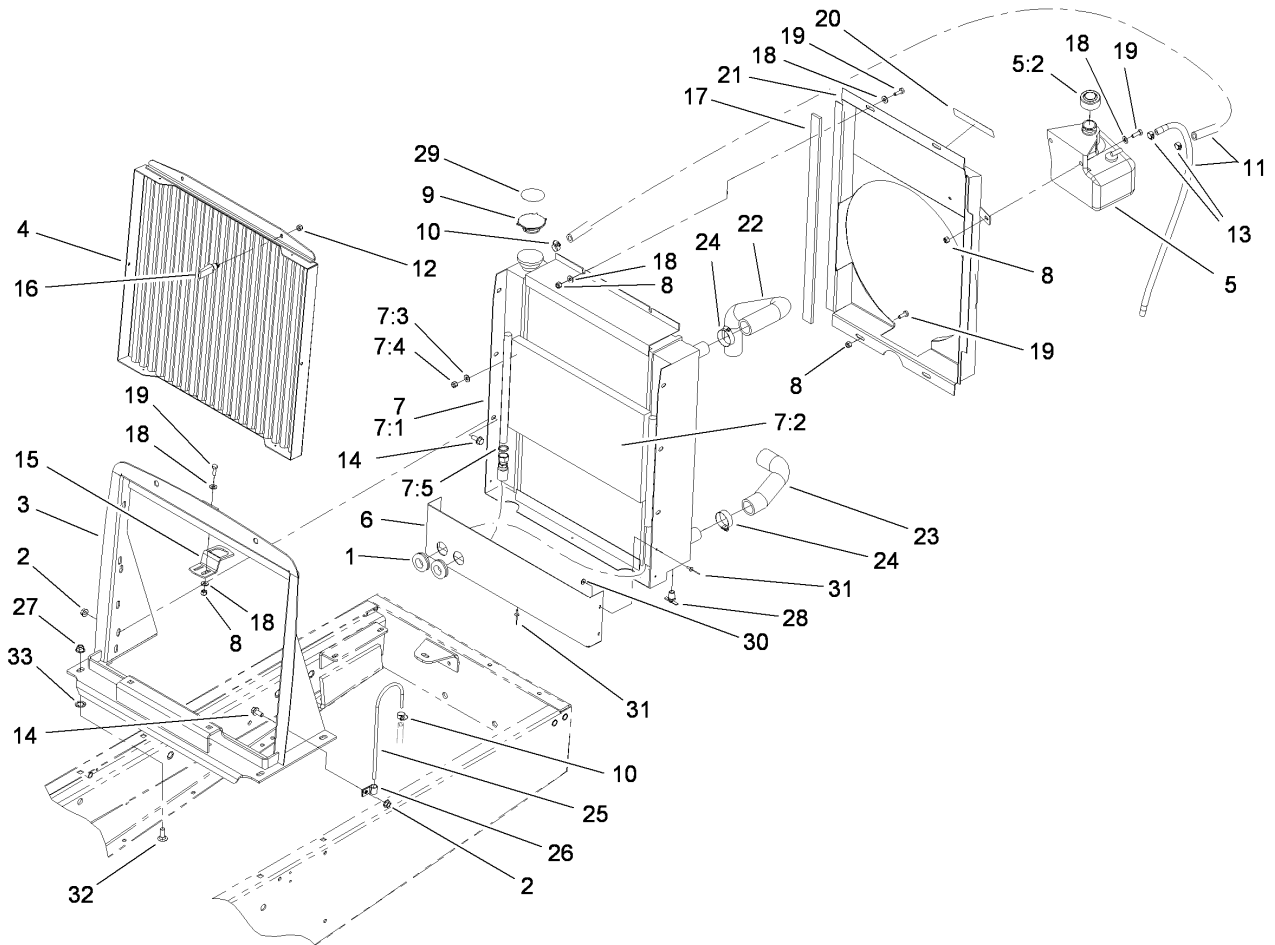
## Hydraulic Cylinder and Lift Arm Assembly

Ref	Part No.	Qty.	Description
1	3272-5	2	Pin-Cotter
2	108-2021-03	1	Tube-Link
3	283-26	1	Pin
4	114-2877	1	Valve ASM
5	340-2	2	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-3	5	Adapter
6:1	237-22	1	O-Ring
6:2	237-79	1	O-Ring
7	100-5641	1	Hose ASM
8	2412-36	3	Clamp-Hose
9	100-5649	1	Hose
10	321-18	2	Screw-HH
11	3253-3	2	Washer-Lock
12	3256-22	2	Washer-Flat
13	114-2869	1	HYD Tube ASM
14	108-2083	1	Hose ASM
15	108-2088	1	Hose ASM
16	3290-378	2	Tie-Cable
17	3296-51	2	Nut-Lock, NI
18	108-2082	1	Hose ASM
19	340-86	1	Fitting-HYD, Tee
19:1	237-22	2	O-Ring

Ref	Part No.	Qty.	Description
19:2	237-42	1	O-Ring
20	92-5082	2	Hose-HYD
21	2412-108	2	Clamp-Worm
22	304-99	2	Stem-Hose
22:1	237-78	1	O-Ring
23	63-6630	2	Cylinder-HYD
24	3272-23	4	Pin-Cotter
25	27-4240	2	Pin-Cylinder
26	328-7	2	Screw-HH
27	114-2863	1	Manifold ASM
28	283-66	1	Pin-Clevis
29	354-107	1	Fitting-HYD, Tee
30	114-2870-03	1	Bracket-Mounting
31	340-115	1	Fitting-Tee
31:1	237-22	2	O-Ring
32	86-5480	1	Nipple-Test
33	354-79	1	Cap-Dust
34	321-11	2	Screw-HH
35	32128-33	2	Nut-HF
36	100-5589	1	Hose ASM



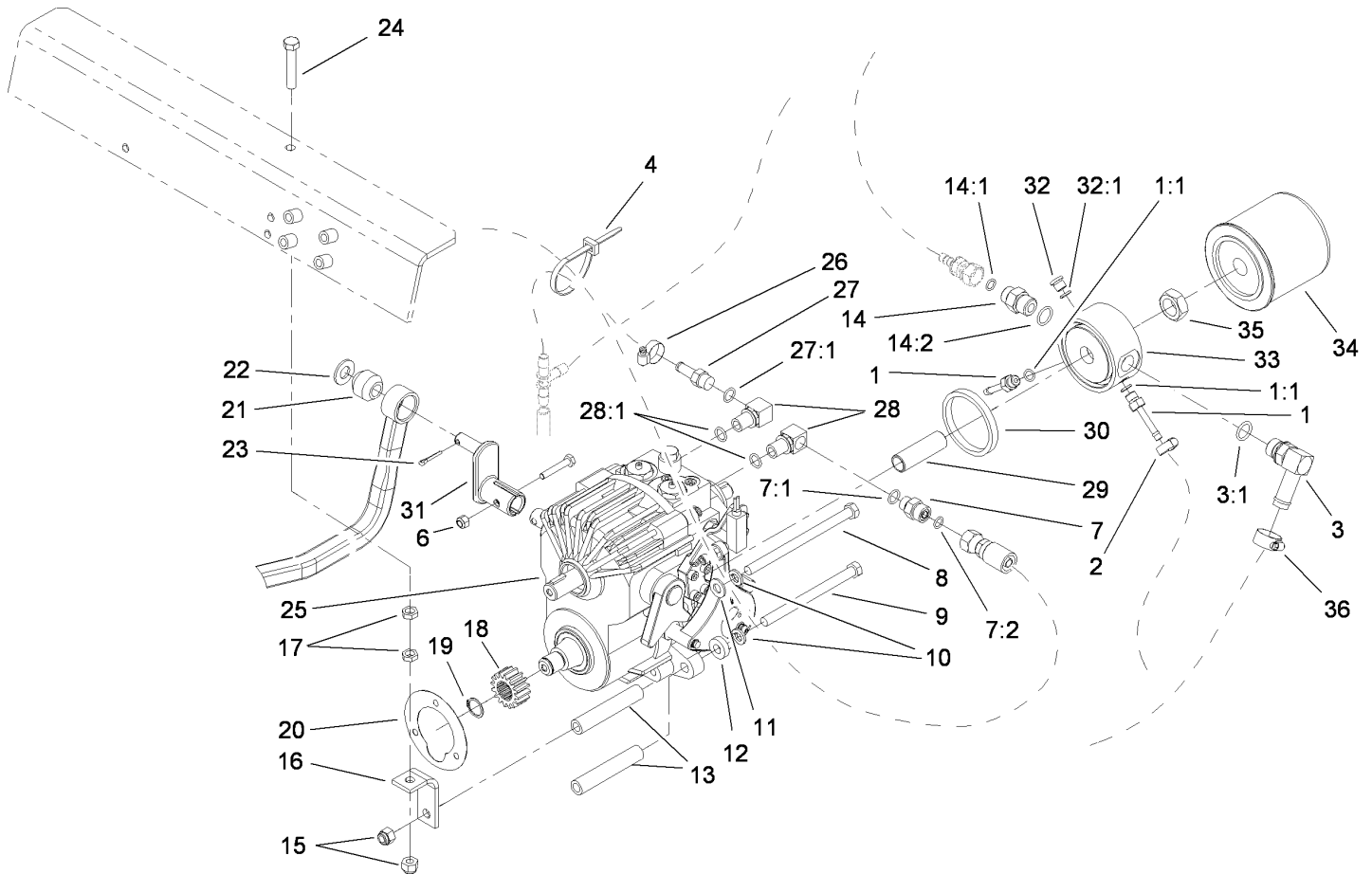




## Radiator Assembly

Ref	Part No.	Qty.	Description
1	240-4	2	Grommet-Rubber
2	32128-20	6	Nut-HF
3	110-9668-03	1	Radiator Support ASM
4	108-2062-03	1	Screen ASM
5	93-5975	1	Coolant Reservoir ASM
5:2	93-5960	1	Cap-Reservoir
6	110-9663-03	1	Shield-Radiator, Bottom
7		1	Radiator / Oil Cooler ASM
7:1	105-4289	1	Radiator
7:2	105-4290	1	Cooler-Oil
7:3	3253-4	4	Washer-Lock
7:4	3217-6	4	Nut-Hex
7:5	237-22	2	O-Ring
8	3296-42	8	Nut-Lock, NI
9	66-3240	1	Cap-Radiator
10	2412-108	2	Clamp-Worm
11	110-4103	2	Hose-Fuel
12	1-804254	2	Nut
13	2412-98	2	Clamp
14	3234-5	6	Screw-HHF
15	98-9316	1	Latch-Hood
16	74-5950	2	Latch-Swell
17	108-9683	2	Strip-Foam
18	3256-22	14	Washer-Flat

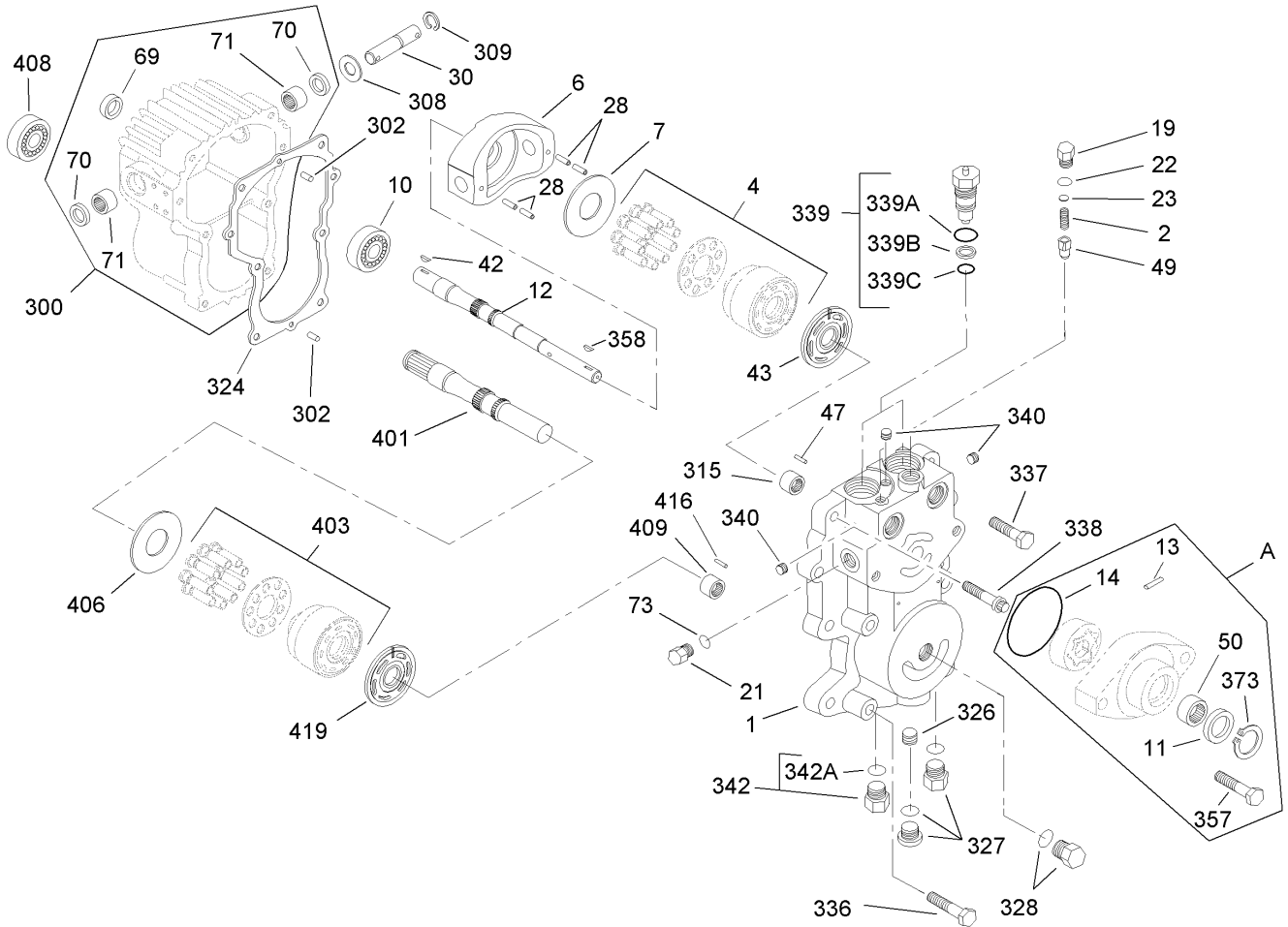
Ref	Part No.	Qty.	Description
19	321-4	8	Screw-HH
20	93-7272	1	Decal-Warning
21	108-9678-03	1	Fan Shroud ASM
22	104-3443	1	Hose-Radiator, Upper
23	104-3442	1	Hose-Radiator, Lower
24	2412-34	4	Clamp-Hose
25	66-3180	1	Tube-Vent
26	2412-103	2	Clamp
27	104-8301	4	Nut-Flange, NI
28	304-46	1	Draincock
29	106-5976	1	Decal-Warning
30	3269-10	2	Washer-Back
31	3269-13	5	Rivet-Pop
32	3231-2	4	Screw-CARR
33	32151-72	4	Ring-Retaining



## Transmission Installation Assembly

Ref	Part No.	Qty.	Description
1	92-5512	2	Fitting-Hose, Barbed
1:1	237-78	1	O-Ring
2	2412-108	2	Clamp-Worm
3	92-5086	1	Fitting-Elbow, 90 DEG
3:1	237-79	1	O-Ring
4	3290-378	2	Tie-Cable
6	3296-42	1	Nut-Lock, NI
7	82-8530	1	Fitting-Straight
7:1	237-42	1	O-Ring
7:2	237-22	1	O-Ring
8	27-9620	1	Screw-HH
9	323-39	3	Screw-HH
10	3253-21	4	Washer-Lock
11	3256-24	1	Washer-Flat
12	5-0652	1	Spacer
13	27-3680	4	Spacer-Mounting
14	340-3	1	Adapter
14:1	237-22	1	O-Ring
14:2	237-79	1	O-Ring
15	3296-39	2	Nut-Lock, NI
16	63-7170	1	Anchor-Transmission
17	3218-3	2	Nut-Jam
18	86-7220	1	Gear-Pinion
19	32120-72	1	Ring-Snap

Ref	Part No.	Qty.	Description
20	27-3690	1	Gasket-Transmission
21	23-2270	1	Bushing-Rubber
22	3256-26	1	Washer-Flat
23	3272-10	1	Pin-Cotter
24	67-1900	1	Screw-HH
25	108-1355	1	Transmission ASM
26	2412-36	1	Clamp-Hose
27	353-979	1	Fitting-Straight
27:1	237-42	1	O-Ring
28	66-3110	2	Fitting-HYD, 90 DEG
28:1	237-42	1	O-Ring
29	92-5085	1	Union-Filter
30	92-5087	1	Seal-Adaptor, Filter
31	112-5098	1	Pump Lever
32	353-990	1	Plug
32:1	237-78	1	O-Ring
33	92-5076	1	Adapter-Filter
34	23-2300	1	Filter-Oil, Transmission
35	3220-7	1	Nut-Jam
36	2412-119	1	Clamp-Worm

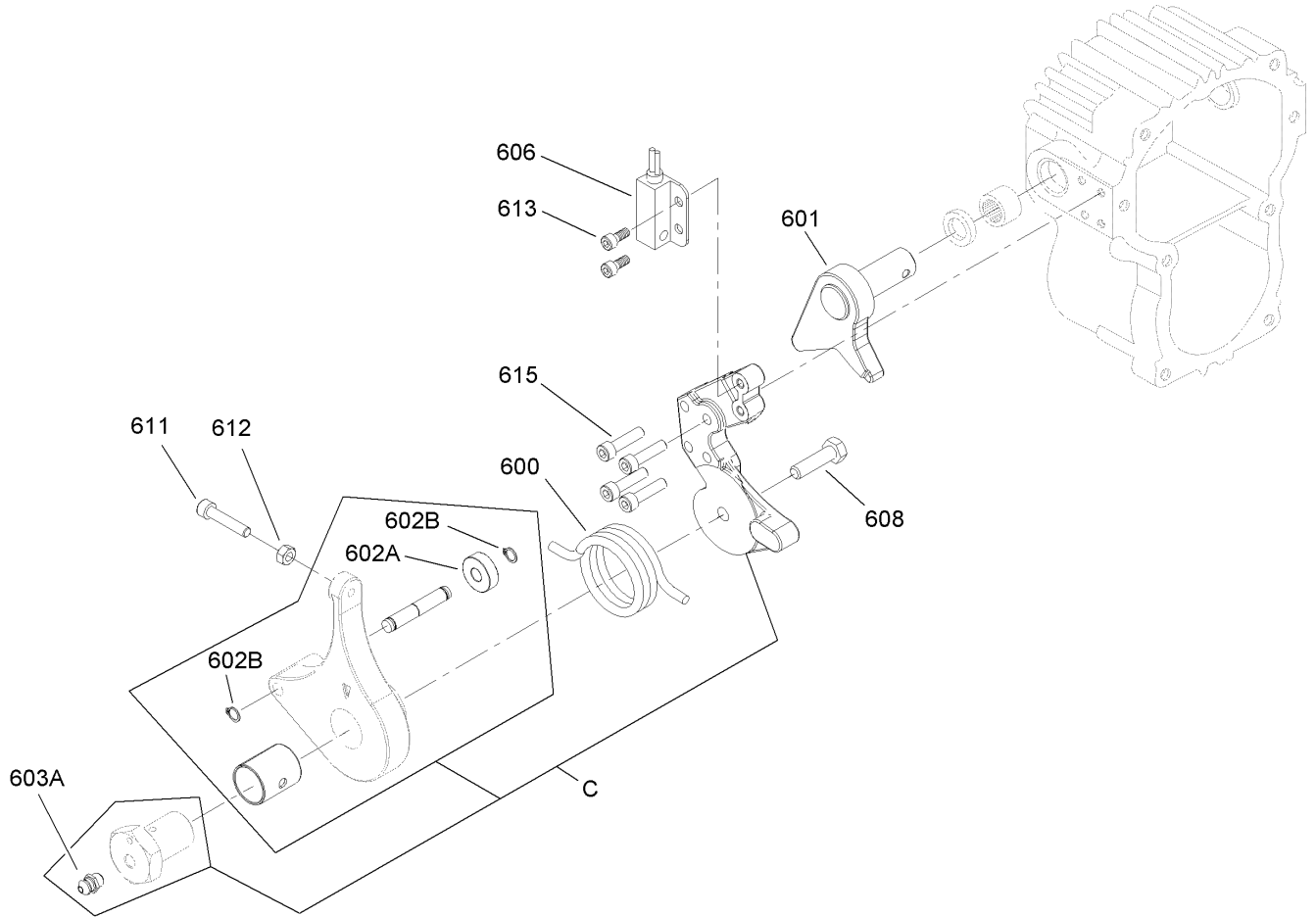


## Center Section Assembly Transmission Assembly No. 108-1355

Ref	Part No.	Qty.	Description
A	38-2670	1	Charge Pump Kit
1	92-5716	1	Section-Center
2	46-7310	1	Spring
4	48-1800	1	Cylinder Block Kit
6	25-2450	1	Plate-Swash, Variable
7	25-2380	1	Plate-Thrust
10	251-8	1	Bearing-Ball
11	94-2975	1	Seal-Shaft
12	28-3640	1	Shaft-Pump
13	38-2680	1	Pin
14	28-3520	1	O-Ring
19	25-2460	1	Plug-HH
21	25-2460	1	Plug-HH
22	28-3400	1	O-Ring
23	25-2470	1	Pack-Shim
28	83-3880	4	Pin-Spring
30	28-3670	1	Shaft-Trunnion
42	3257-5	1	Key-Woodruff
43	110-3051	1	Plate-Valve
47	25-2430	1	Pin-Dowel
49	67-8070	1	Cone-Relief, Charge
50	28-3480	1	Bearing
69	93-4133	1	Seal-Lip
70	103461	2	Seal

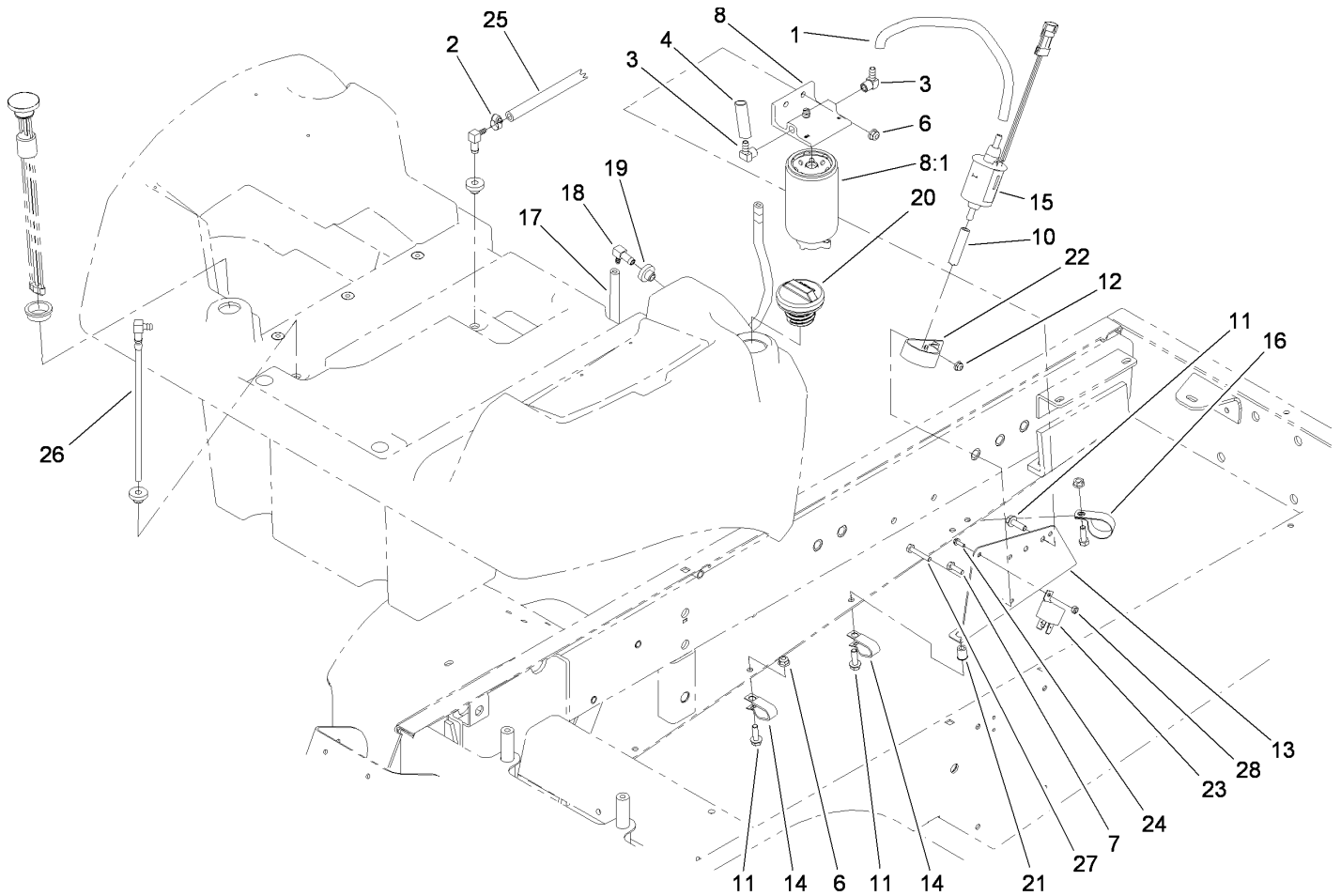
Ref	Part No.	Qty.	Description
71	252-82	2	Bearing-Needle
73	28-3400	1	O-Ring
300	110-3052	1	Housing ASM
302	353-599	2	Pin-Dowel
308	25-2510	1	Washer-Flat
309	32151-46	1	Ring-Retaining
315	25-3300	1	Bearing-Needle
324	28-3340	1	Gasket
326	107-4370	1	Plug-Expansion
327	67-9090	1	Plug ASM
328	28-3440	1	Plug-Threaded
336	323-10	4	Screw-HH
337	75-0110	2	Capscrew-HH
338	28-3530	2	Capscrew
339	49-7830	2	Check Valve Kit
340	75-0160	4	Plug-Pipe
342	28-3440	2	Plug-Threaded
357	92-1773	2	Screw-HHF
358	3257-5	1	Key-Woodruff
373	94-2976	1	Ring-Retaining
401	49-8200	1	Shaft-Motor
403	48-1800	1	Cylinder Block Kit
406	25-2380	1	Plate-Thrust
408	28-3300	1	Bearing-Roller





## Neutral Return Arm Assembly Transmission Assembly No. 108-1355

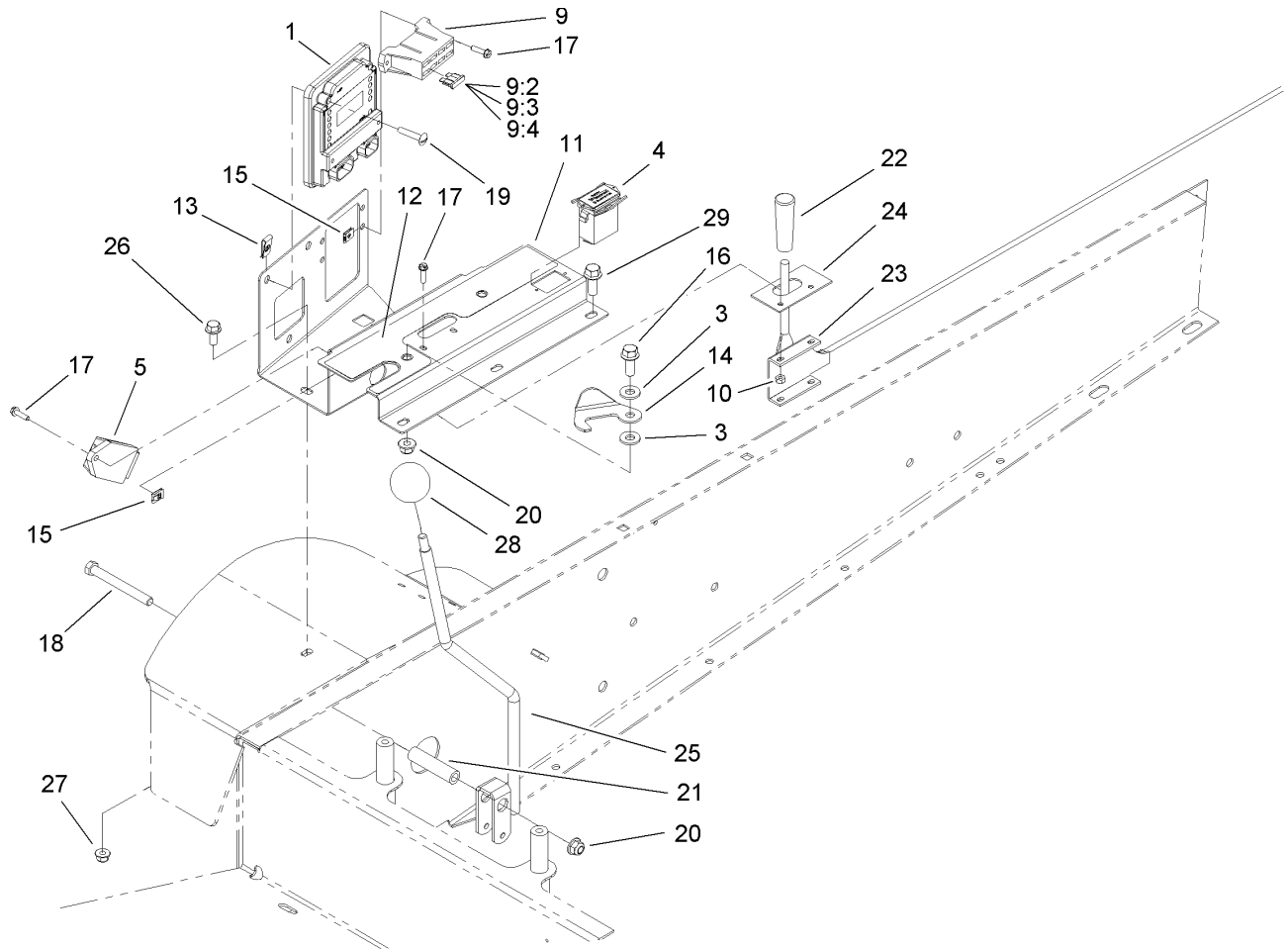
Ref	Part No.	Qty.	Description
C	110-5685	1	Neutral Return ASM
600	110-3053	1	Spring-Return, Neutral
601	110-3054	1	Cam-Trunnion
606	100-1270	1	Switch-Proximity
608	33114-030	1	Screw-HH
611	110-3060	1	Screw-HSH
612	33013-00	1	Nut-Hex
613	110-3061	2	Screw-HSH
615	48-7850	4	Capscrew
602A	251-259	1	Bearing-Ball
602B	110-3056	2	Ring-Retaining
603A	110-3058	1	Fitting-Lube

## Fuel Delivery System Assembly

Ref	Part No.	Qty.	Description
1	110-4105	1	Hose-Fuel
2	2412-108	9	Clamp-Worm
3	353-781	2	Fitting-Elbow
4	106-1126	1	Hose-Fuel
6	104-8300	3	Nut-Flange, NI
7	321-5	1	Screw-HH
8	110-9044	1	Filter-Seperator
8:1	110-9049	1	Filter-Spin On
10	110-4172	1	Hose-Fuel
11	3234-17	5	Screw-HHF
12	104-7201	2	Nut-HF
13	114-2854-03	1	Bracket-Support
14	92-5753	2	Clamp-Hose
15	110-8806	1	Pump-Fuel
16	2412-74	1	R-Clamp
17	109-0273	1	Hose-Fuel
18	104-5228	2	Fitting-Elbow
19	46-6560	3	Bushing
20	114-5054	1	Cap-Biodiesel
21	32148-7	2	Nut-Insert
22	110-8817	1	Bracket-Pump, Fuel
23	99-7435	1	Relay-Power
24	32105-2	1	Screw-SHWH
25	108-9698	1	Hose-Fuel

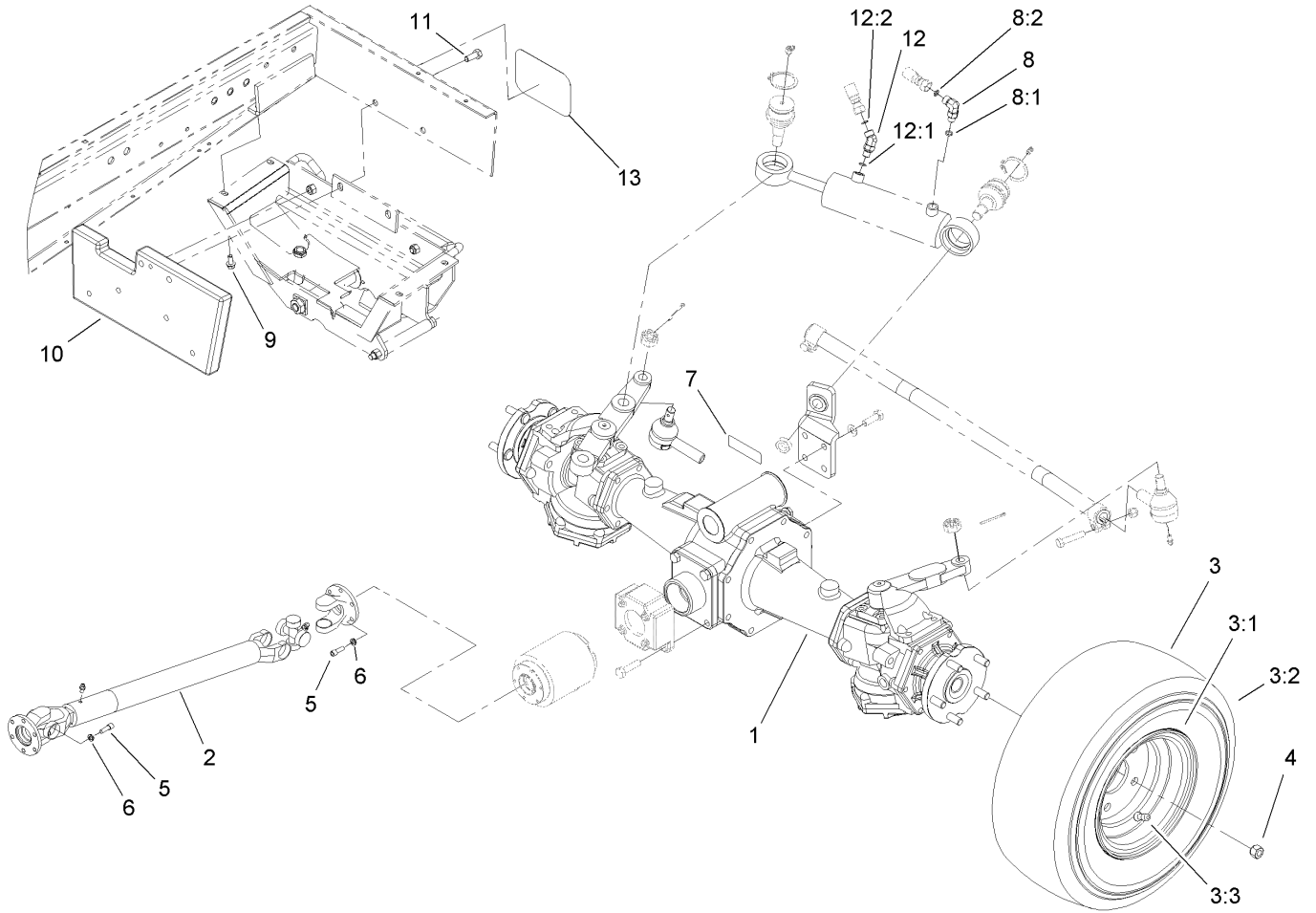
Ref	Part No.	Qty.	Description
26	110-9689	1	Pipe-Stand
27	321-9	1	Screw-HH
28	3296-2	1	Nut-Lock



## Lower Control Panel Assembly

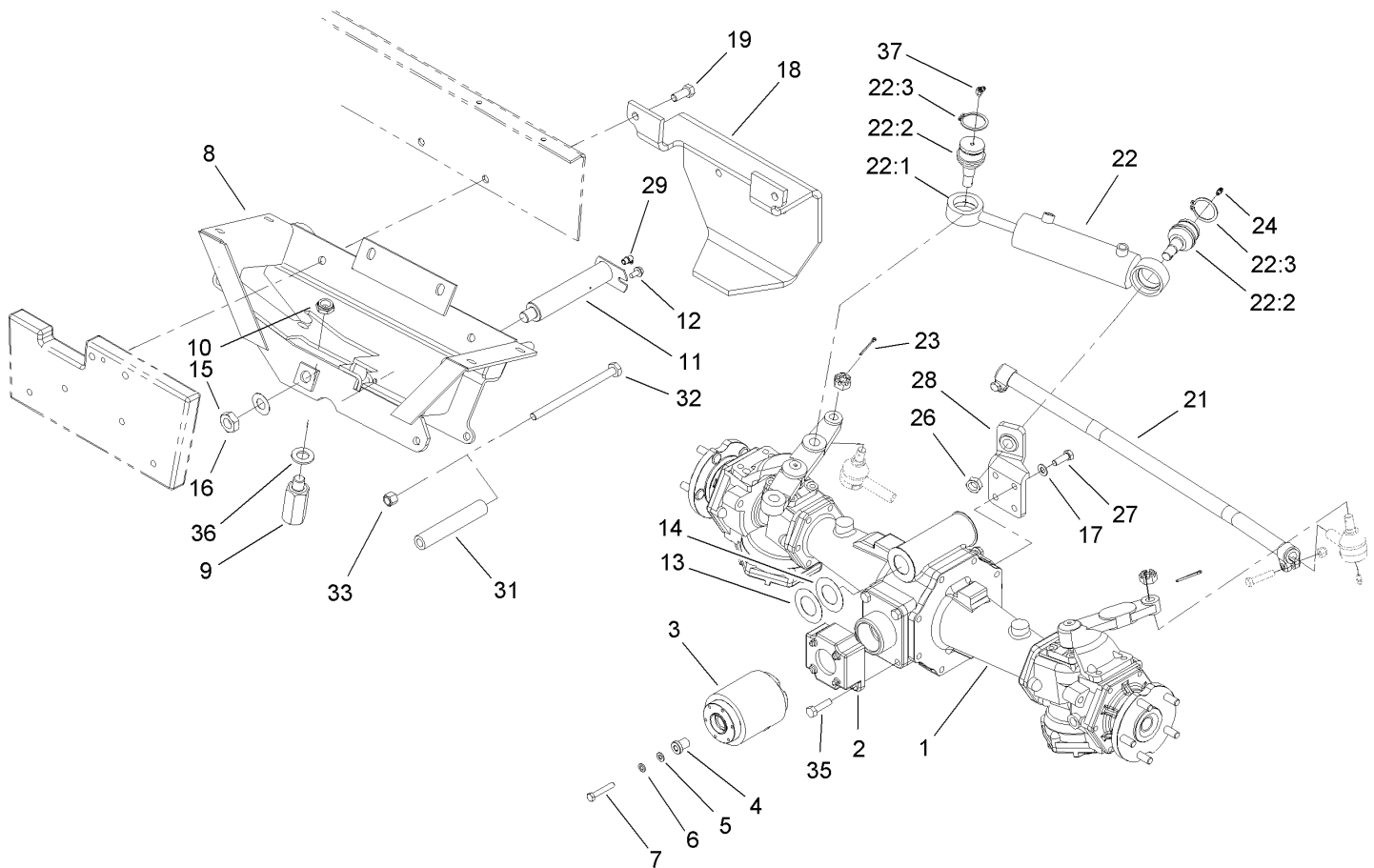
Ref	Part No.	Qty.	Description
1	106-9277	1	Module-Control, Standard
3	66-2920	2	Washer-Friction
4	1-513374	1	Meter-Hour
5	98-7611	1	Controller-Glow
9	114-3398	1	Harness-Wire
9:2	94-6710	1	Fuse-Blade, 2 Amp
9:3	218-578	2	Fuse-10 Amp
9:4	109355	1	Fuse-15 Amp
10	3296-2	2	Nut-Lock
11	108-2030-03	1	Cover-Lower
12	108-2031	1	Decal-Panel, Lower
13	3290-199	3	Nut-Speed
14	108-2032	1	Latch-Lever
15	107-1013	8	Nut-Speed, U-Type
16	3234-11	1	Screw-HHF
17	32105-13	5	Screw-HWH
18	323-15	1	Screw-HH
19	3258-19	3	Screw
20	104-8301	2	Nut-Flange, NI
21	84-2350	1	Spacer-Long
22	233-39	1	Knob-Control
23	108-2033	1	Cable-Throttle, Diesel
24	108-2034-03	1	Plate-Throttle
25	108-2035-03	1	Lift Lever ASM

Ref	Part No.	Qty.	Description
26	3234-5	1	Screw-HHF
27	104-8300	1	Nut-Flange, NI
28	233-21	1	Knob
29	3234-14	3	Screw-HHF



## Driveshaft and 4 Wheel Drive Assembly

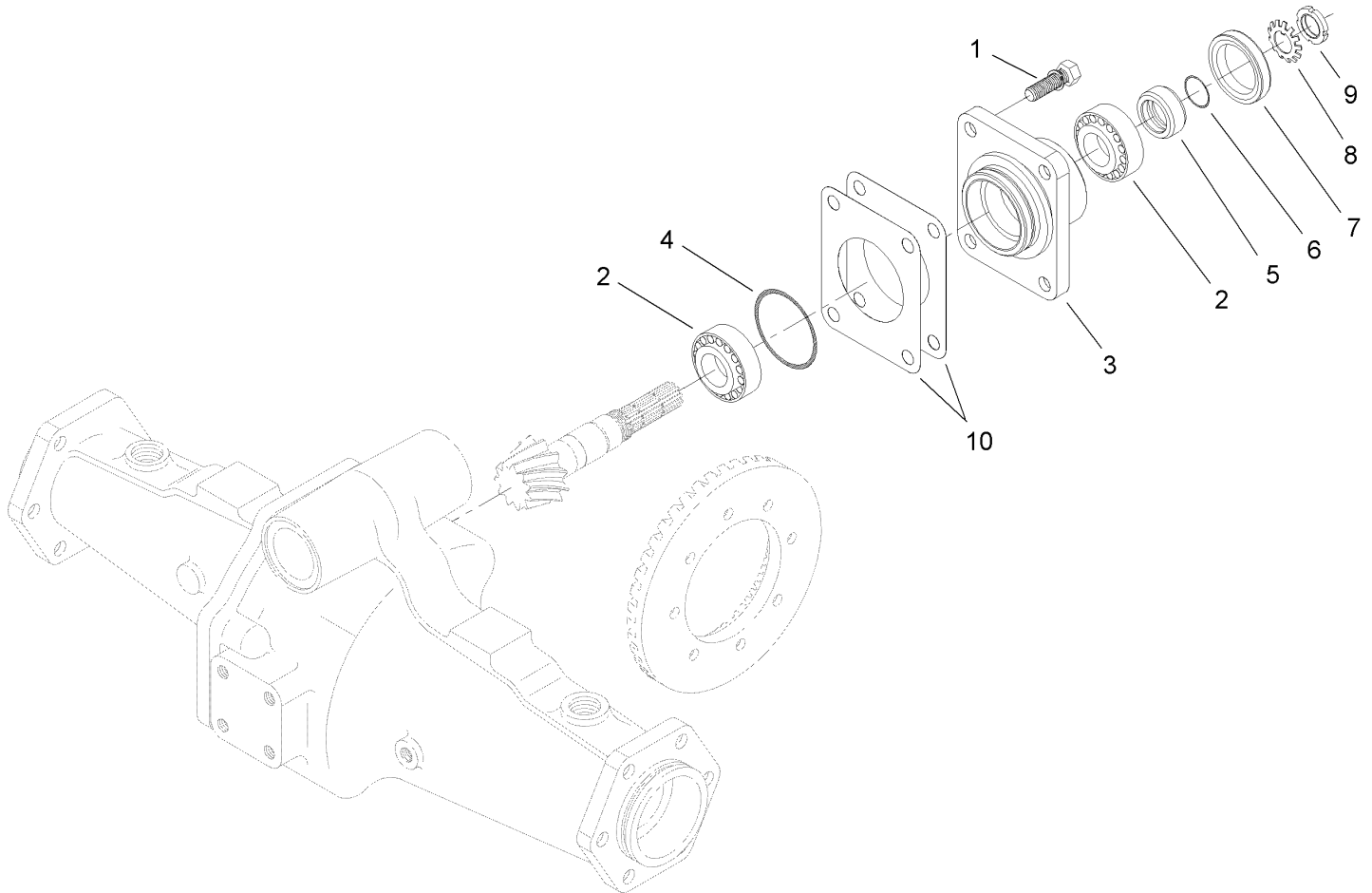
Ref	Part No.	Qty.	Description
②1		1	Rear Axle ASM
2	98-5009	1	Driveshaft ASM
②3		2	Tire And Wheel ASM
3:1	105-7846	1	Wheel
3:2	231-122	1	Tire (18X6.5-8) 4-Ply
3:3	232-27	1	Stem-Valve
4	93-5268	10	Nut-Lug
5	3274-8	12	Screw-HSH
6	3253-3	12	Washer-Lock
7	93-6697	1	Decal-Lube
8	340-132	1	Fitting-HYD, 90 DEG
8:1	237-78	1	O-Ring
8:2	237-21	1	O-Ring
9	3234-25	4	Screw-HHF
10	110-1995-03	1	Weight-Rear, Inside
11	325-5	4	Screw-HH
12	340-103	1	Fitting-HYD, 45 DEG
12:1	237-78	1	O-Ring
12:2	237-21	1	O-Ring
13	62-7400	1	Decal

## Rear Axle Assembly

Ref	Part No.	Qty.	Description
1	106-1120	1	Rear Axle ASM
2	98-3860-03	1	Adaptor-Locator, Clutch
3	95-6296	1	Clutch-Bidirectional
4	98-1823	1	Spacer
5	33094-00	1	Washer-Plain
6	3253-4	1	Washer-Lock
7	33114-050	1	Screw-HH
8	105-4295-03	1	Axle Support ASM
9	98-3863	1	Stop-Oscillation
10	3296-15	1	Nut-Lock, NI
11	99-8434-03	1	Rear Axle Pin ASM
12	32144-14	1	Screw-HWHTF
13	99-8431	1	Washer-Thrust
14	99-8432	1	Washer-Thrust
15	71-4540	1	Washer-Thrust
16	32146-20	1	Nut-Jam
17	48-9220	4	Washer
18	99-2405-03	1	Bumper
19	325-5	2	Screw-HH
21	98-3871-03	1	Tie Rod ASM
22		1	Steering Cylinder ASM
22:1	99-2415	1	Cylinder-HYD
22:2	106-6774	2	Joint-Ball
22:3	32151-104	2	Ring-Retaining, External

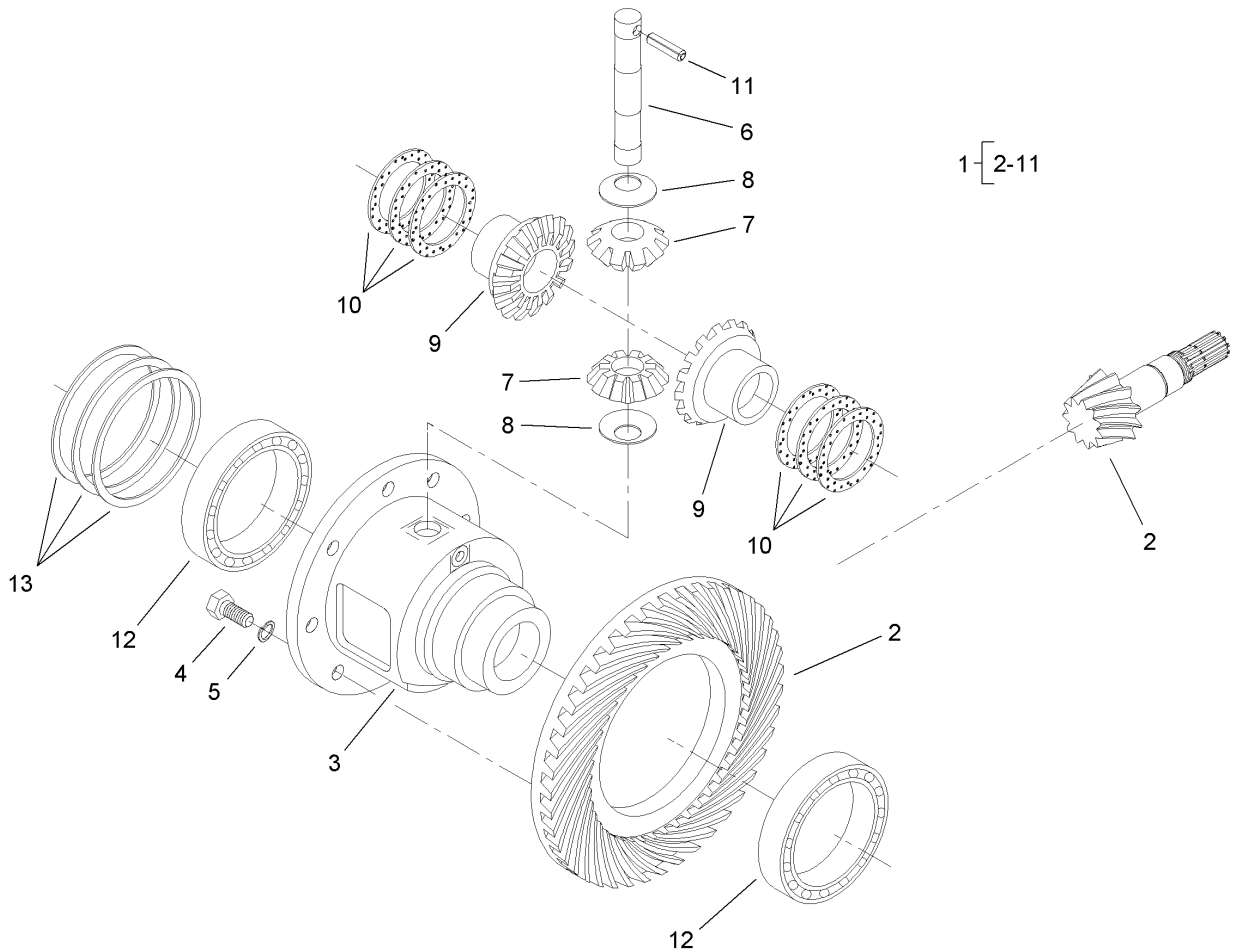
Ref	Part No.	Qty.	Description
23	3272-11	2	Pin-Cotter
24	302-11	1	Fitting-Lube, 45 DEG
26	3220-6	4	Nut-Jam
27	108-1420	4	Screw-HSH
28	98-3862-03	1	Bracket-Support, Cylinder
29	302-33	1	Fitting-Grease
31	99-2404-03	1	Stop-Rear Axle, LH
32	325-36	1	Screw-HH
33	3296-23	1	Nut-Lock, NI
35	87-3700	2	Screw-Cap, HH
36	3256-28	1	Washer-Flat
37	302-5	1	Fitting-Grease



## Bevel Pinion Shaft Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description
1	99-7575	4	Bolt
2	99-7570	2	Bearing-Roller, Taper
3	95-7535	1	Case-Bearing
4	106-1065	1	O-Ring
5	99-7572	1	Collar-Seal, Oil
6	106-1066	1	O-Ring
7	99-7574	1	Seal-Oil
8	99-7559	1	Washer-Lock
9	99-7560	1	Nut-Lock
10	99-7550	2	Shim 0.1
10	99-7551	2	Shim 0.2

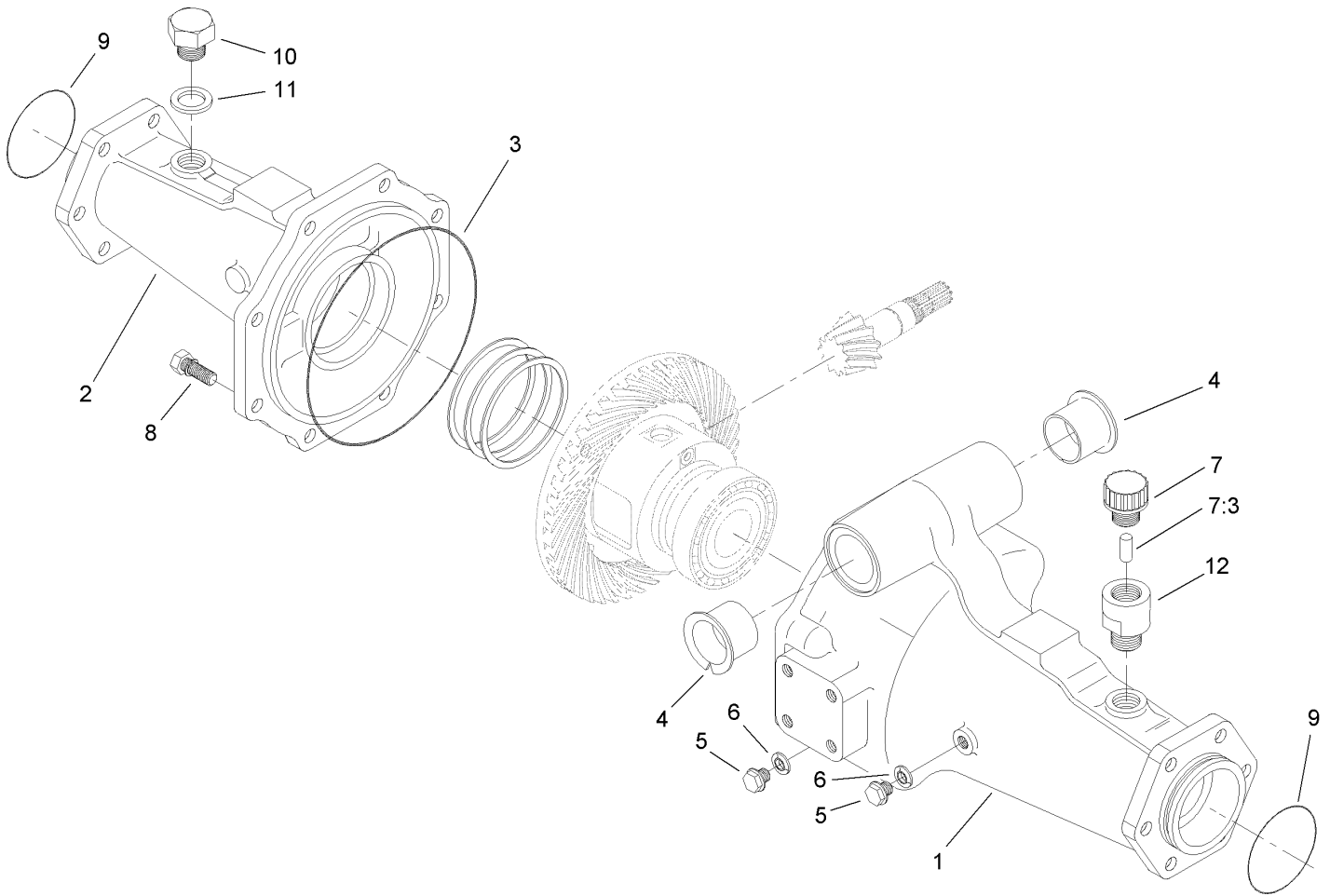
--	--	--	--



## Differential Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description
1	95-7503	1	Differential ASM
2	106-1093	1	Ring And Pinion, Matched Set
3	95-7502	1	Case-Differential
4	99-7576	8	Bolt
5	3253-4	8	Washer-Lock
6	99-7578	1	Shaft-Differential
7	99-7579	2	Pinion-Differential
8	99-7580	2	Washer-Differential
9	99-7581	2	Gear-Differential
10	99-7582	2	Washer-Differential
10	99-7583	2	Washer-Differential
10	99-7584	2	Washer-Differential
11	99-7588	1	Pin-Spring
12	99-7562	2	Bearing-Ball
13	99-7585	2	Shim 0.1
13	99-7586	2	Shim 0.2
13	99-7587	2	Shim 0.4

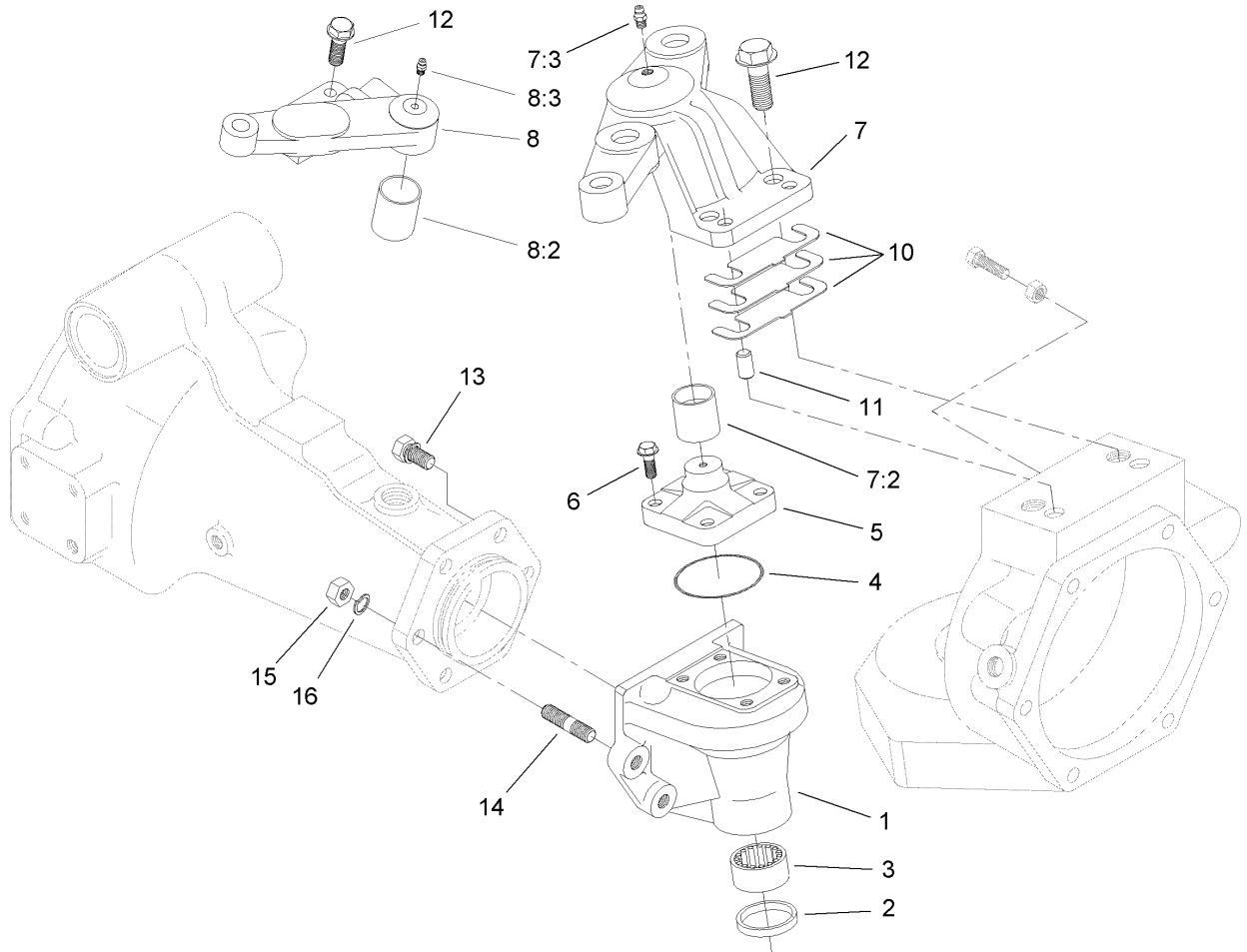
--	--	--	--



## Axle Support Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description
1	95-7508	1	Support-Axle
2	95-7506	1	Support-Axle
3	106-1067	1	O-Ring
4	95-7537	2	Bushing-Flanged
5	99-7589	2	Plug
6	99-7590	2	Washer-Seal
7	110-4812	1	Axle Vent ASM
7:3	110-4815	1	Insert-Filter, Foam
8	99-7592	8	Bolt
9	106-1068	2	O-Ring
10	104-8643	1	Plug
11	104-8644	1	O-Ring
12	104-2377	1	Extension-Vent

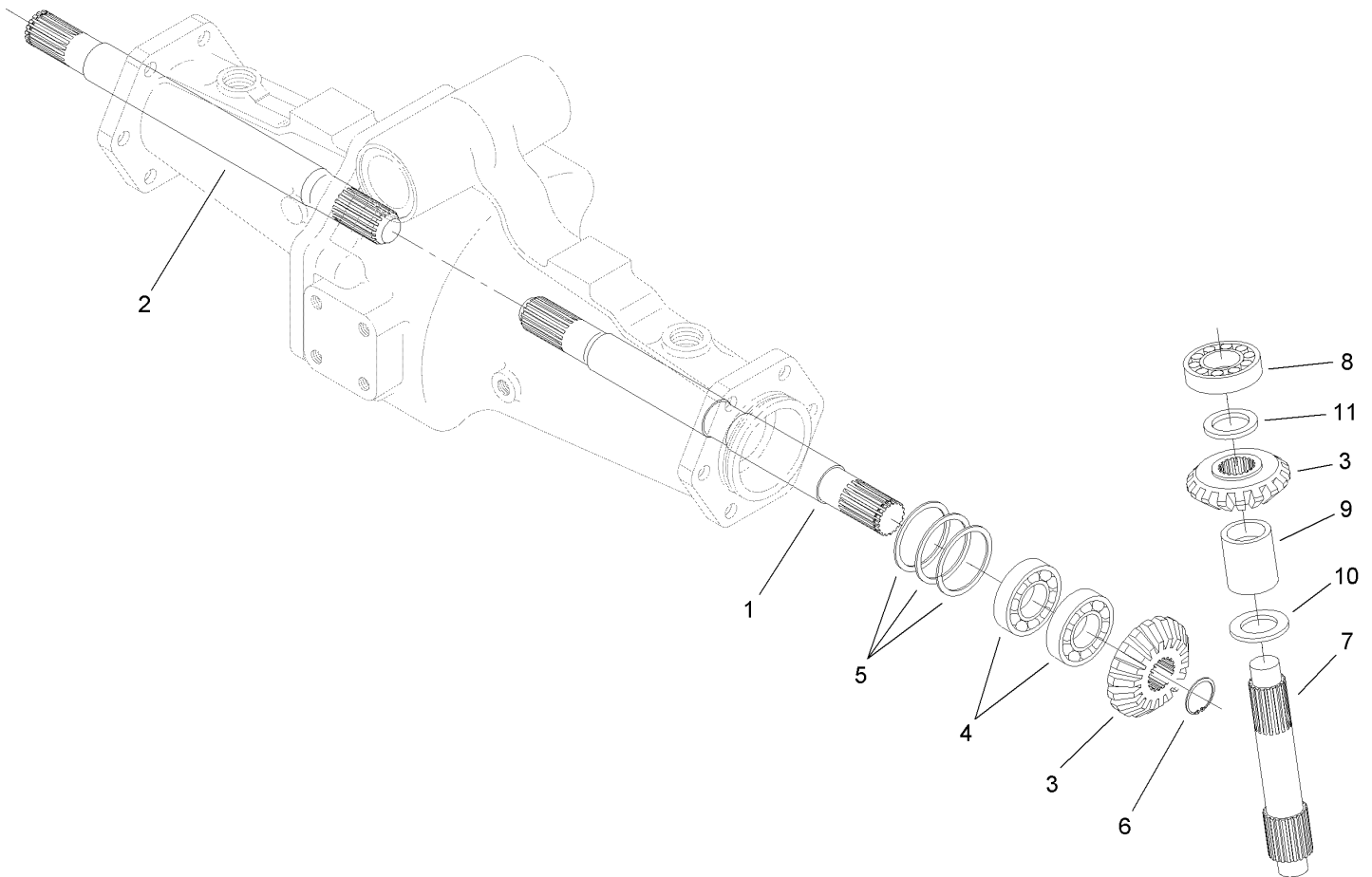
--	--	--	--



## Bevel Gearcase Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description
1	106-1099	2	Case-Gear, Bevel
2	99-7594	2	Seal-Oil
3	99-7595	2	Bearing-Needle
4	106-1069	2	O-Ring
5	104-2373	2	Knuckle
6	104-2374	8	Bolt
7	110-4756	1	RH Axle Case Support ASM
7:2	99-7529	1	Bushing
7:3	99-7528	1	Nipple-Grease
8	110-4757	1	LH Axle Case Support ASM
8:2	99-7529	1	Bushing
8:3	99-7528	1	Nipple-Grease
10	95-7547	2	Shim 0.1
10	95-7548	2	Shim 0.2
10	95-7549	2	Shim 0.3
11	99-7597	4	Pin-Dowel
12	99-7598	4	Bolt
13	99-7599	8	Bolt
14	99-7525	4	Stud
15	99-7526	4	Nut
16	99-7527	4	Washer-Spring

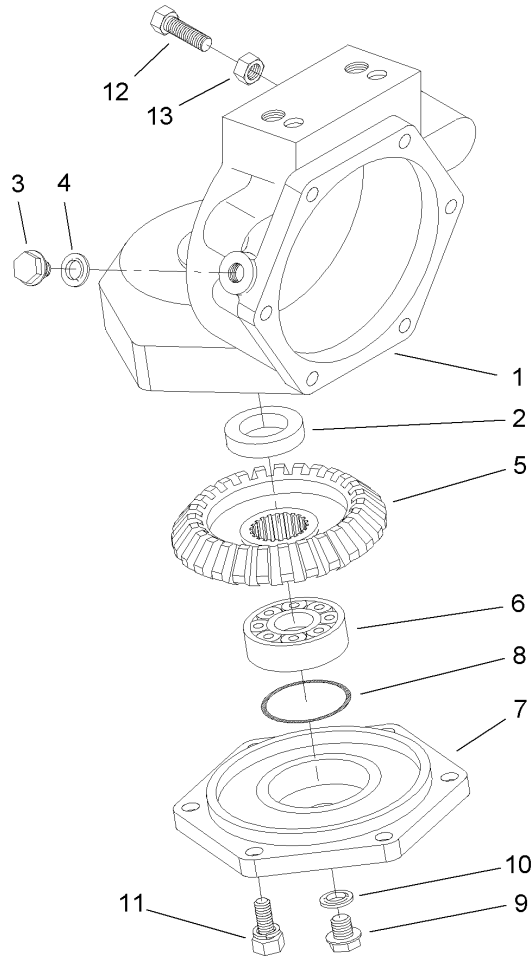
--	--	--	--



## Bevel Gear Shaft Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description
1	95-7509	1	Shaft-Gear, Differential
2	95-7512	1	Shaft-Gear, Differential
3	95-7518	4	Gear-Bevel, 18 Tooth
4	99-7530	4	Bearing-Ball
5	99-7552	2	Shim 0.1
5	99-7553	2	Shim 0.2
5	99-7554	2	Shim 0.5
6	99-7531	2	Clip
7	106-1101	2	Shaft-Gear, Bevel
8	99-7532	2	Bearing-Roller, Taper
9	95-7543	2	Spacer
10	99-7533	2	Collar-Thrust
11	99-7558	2	Collar

--	--	--	--

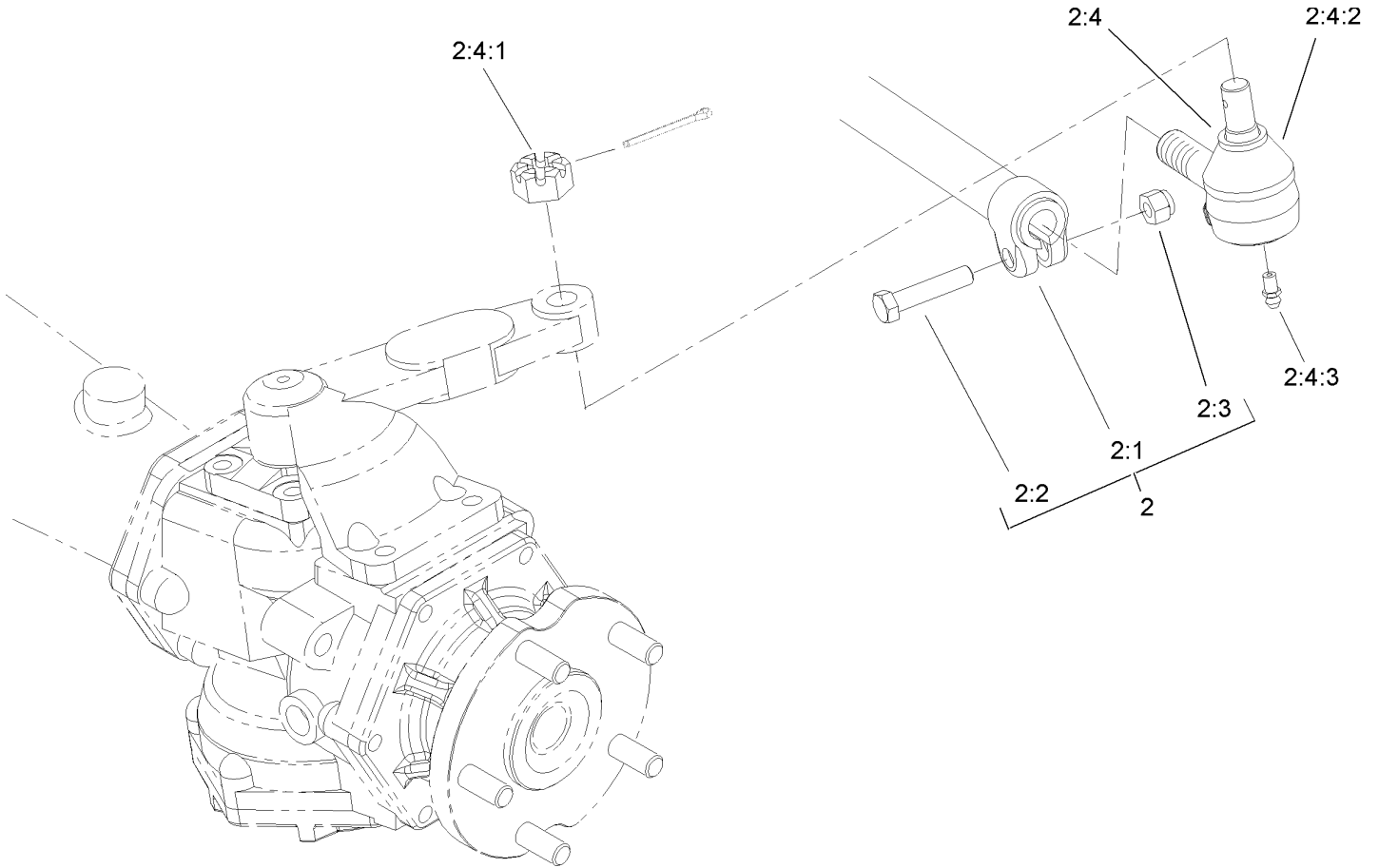


### Axle Case Assembly Rear Axle Assembly No. 106-1120

Ref	Part No.	Qty.	Description				
1	106-1100	2	Case-Axle				
2	99-7594	2	Seal-Oil				
3	99-7535	2	Plug				
4	99-7536	2	Washer-Seal				
5	95-7528	2	Gear-Bevel, 27 Tooth				
6	99-7532	2	Bearing-Roller, Taper				
7	95-7526	2	Cover-Axle				
8	106-1072	2	O-Ring				
9	99-7589	2	Plug				
10	99-7590	2	Washer-Seal				
11	99-7596	12	Bolt				
12	106-1102	2	Bolt-Stop				
13	106-1103	2	Nut				

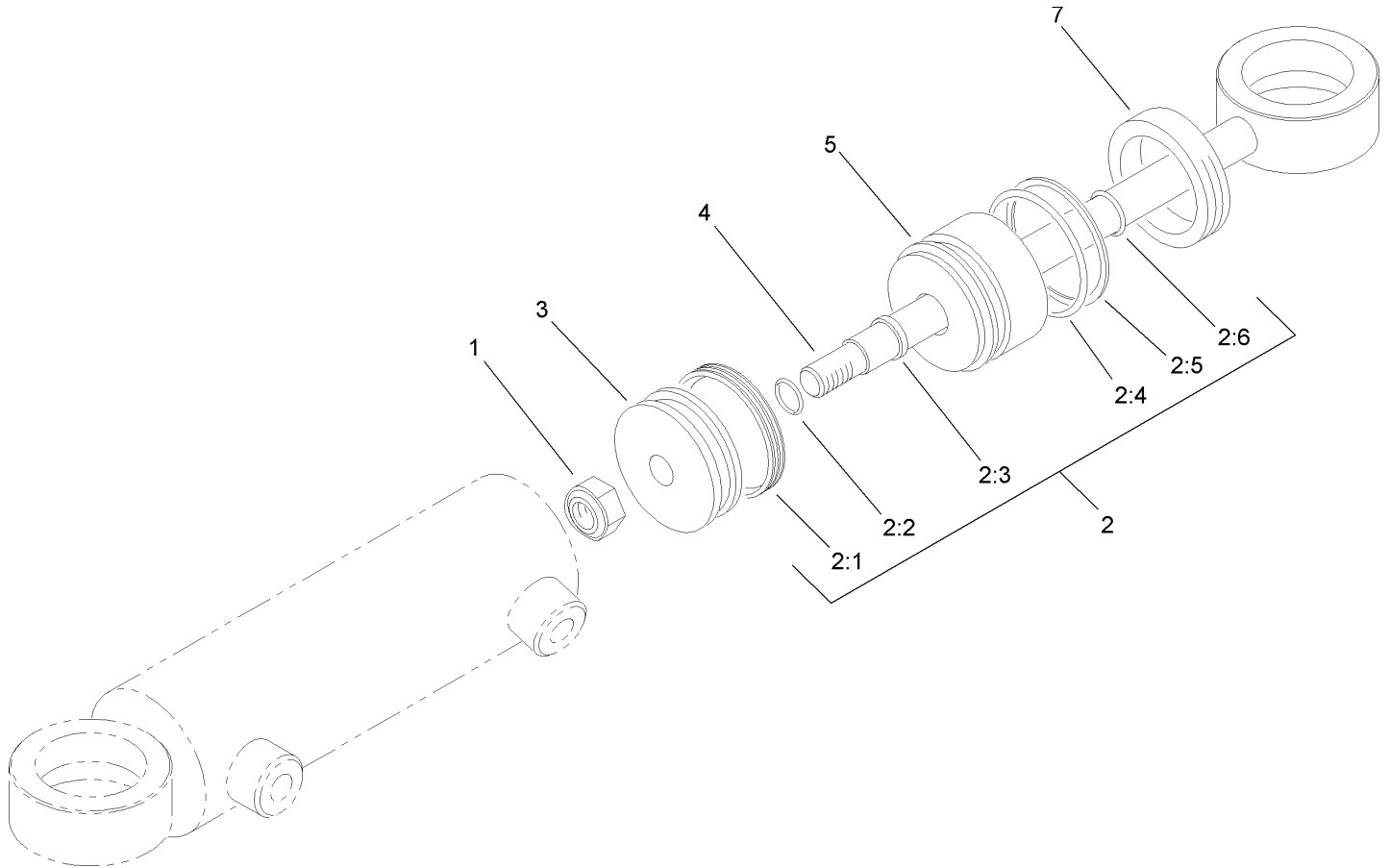






### Tie Rod Assembly No. 98-3871-03

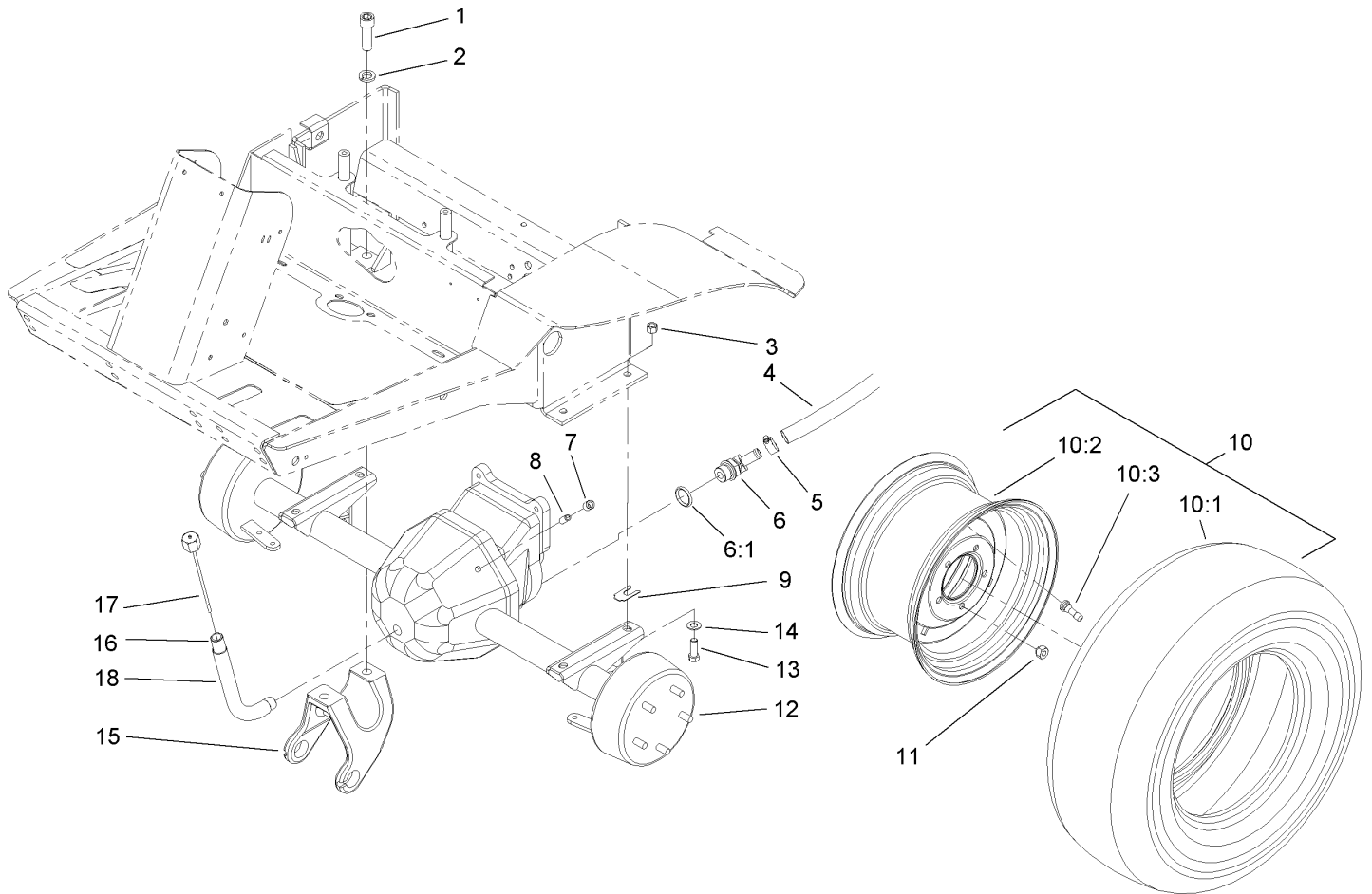
Ref	Part No.	Qty.	Description
2		1	Rod-Tie
2:1	99-2412-03	1	Rod And Clamp ASM
2:2	323-9	2	Screw-HH
2:3	3296-39	2	Nut-Lock, NI
2:4	71-4740	2	End-Rod, Tie (RH)
2:4:1	105-7941	1	Nut-Hex, Slotted
2:4:2	105-7835	1	Seal
2:4:3	302-5	1	Fitting-Grease

## Hydraulic Cylinder Assembly No. 99-2415

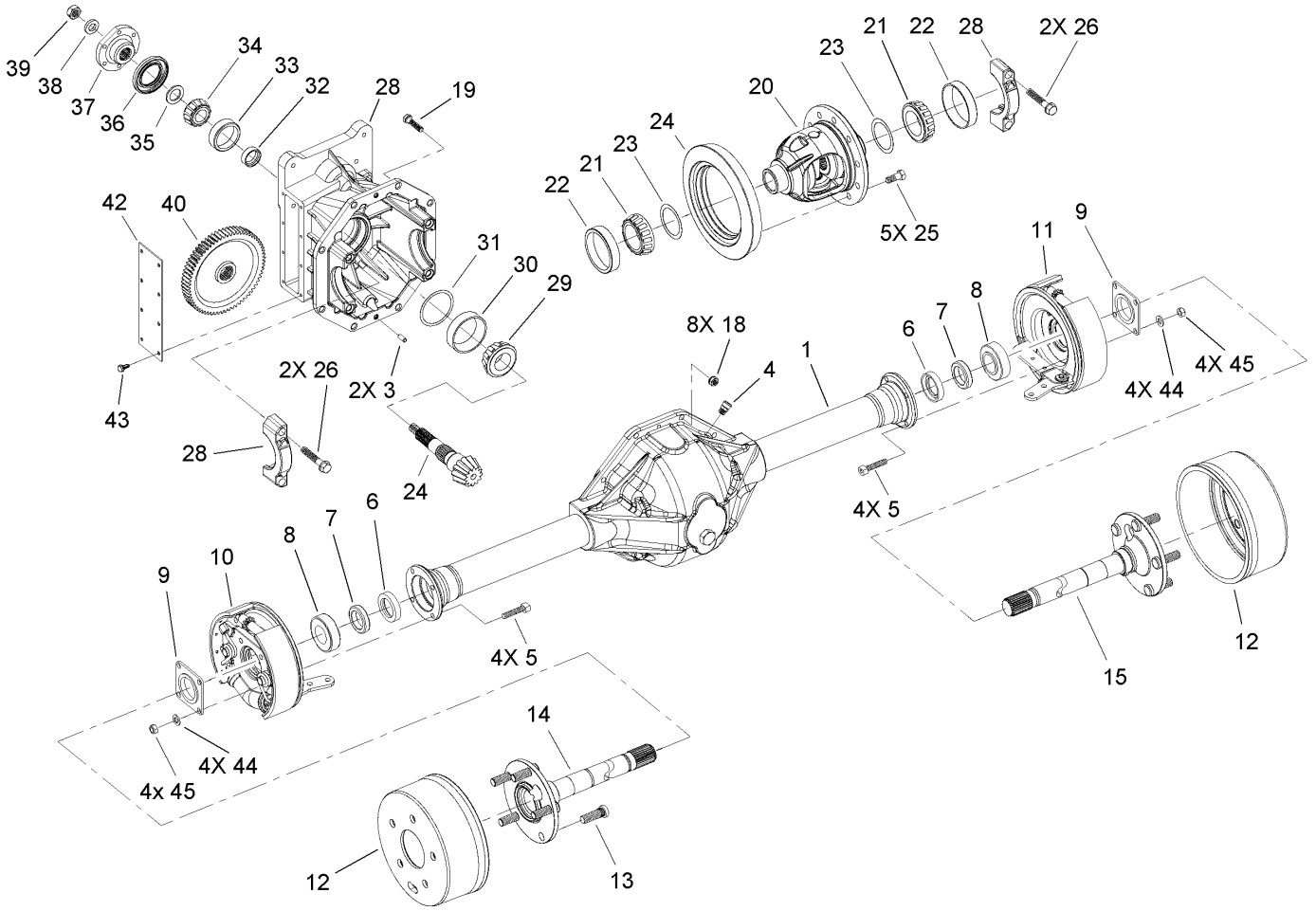
Ref	Part No.	Qty.	Description
1	32152-10	1	Locknut
2	86-5390	1	Seal Kit
2:1		1	Uniring
2:2		1	Seal-Dust
2:3		1	Seal-Rod
2:4		1	Seal-Dust
2:5		1	Ring-Backup
2:6		1	Seal-Dust
3		1	Piston
4		1	Rod
5		1	Head
7		1	Collar-Internal



### Front Axle Assembly

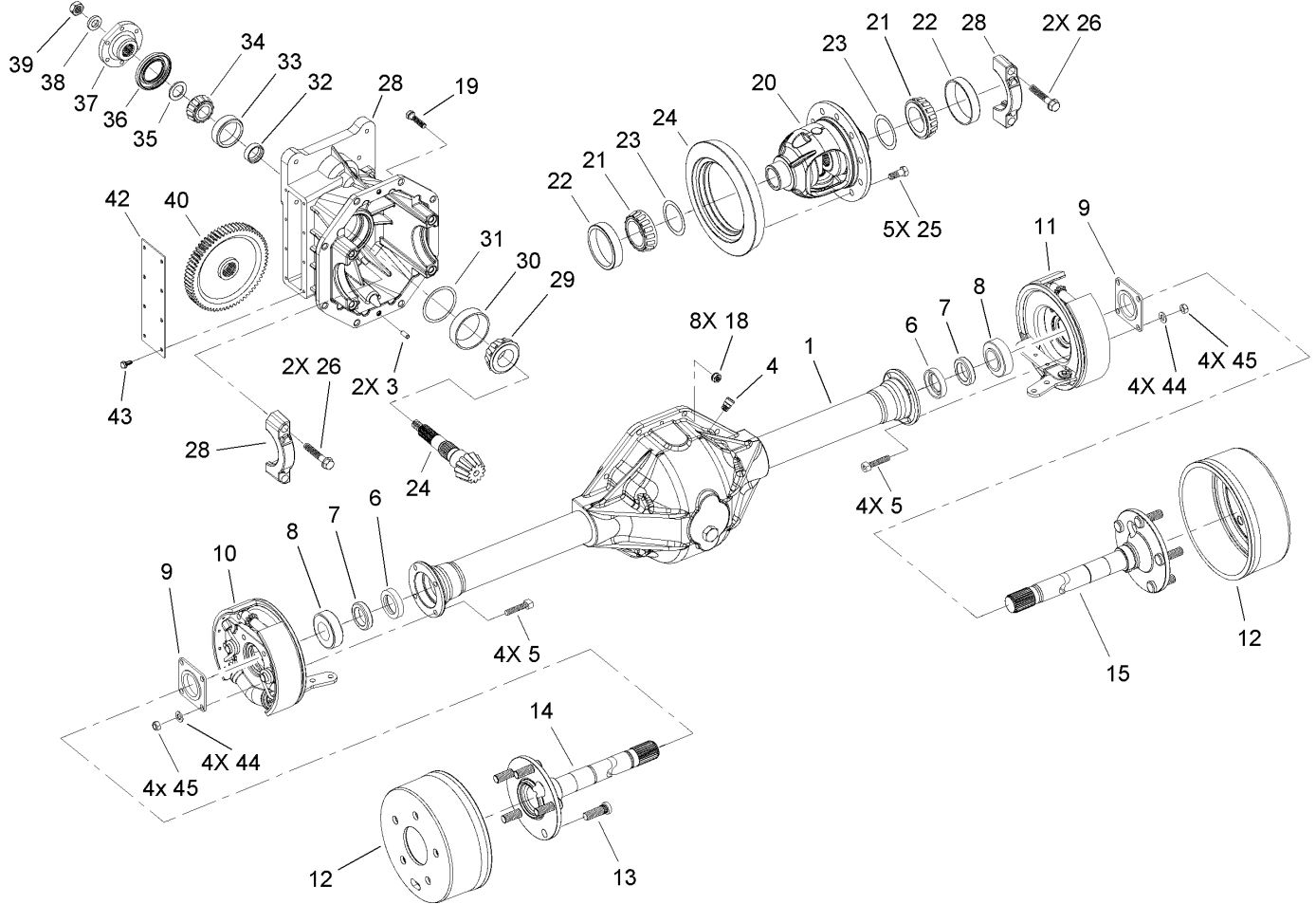
Ref	Part No.	Qty.	Description
1	3273-38	4	Screw-HSH
2	3253-8	4	Washer-Lock
3	3296-48	4	Nut-Lock, NI
4	92-5083	1	Hose-HYD
5	2412-119	1	Clamp-Worm
6	92-5088	1	Fitting-Elbow, 45 DEG
6:1	237-81	1	O-Ring
7	2810-1	1	Coupling-Pipe
8	289-6	1	Nipple-Pipe
9	42-6080	1	Shim-Axle
10		2	Wheel And Tire ASM
10:1	108-6594	1	Tire (23X9.5-12) 4-Ply
10:2	108-1358	1	Wheel
10:3	232-27	1	Stem-Valve
11	242-50	10	Nut-Lug
12	108-6599-03	1	Axle ASM
13	324-5	4	Screw-HH
14	3256-25	4	Washer-Flat
15	110-9678-03	2	Bracket-Carrier
16	105-7169	1	Tube-Fill, Oil
17	105-7172	1	Dipstick ASM
18	110-5651	1	Sleeve-Protective

## Front Axle Assembly No. 108-6599-03

Ref	Part No.	Qty.	Description
1	110-9670	1	Lower Housing ASM
3	21-8270	2	Pin-Dowel
4	72-9420	1	Vent
5	94-6934	8	Screw-HH
6	24-8840	2	Ring-Retaining, Wheel Bearing
7	99-6969	2	Seal-Oil, Wheel End
8	21-8180	2	Bearing ASM
9	28-0670	2	Seal-Grease
10		1	Brake ASM, RH
11		1	Brake ASM, LH
12	110-3072	2	Drum-Brake
13	106-9205	10	Stud-Wheel
14	110-3073	1	Shaft-Axle, RH
15	110-3074	1	Shaft-Axle, LH
18	32149-5	8	Nut-Keps
19	3210-8	8	Screw-HH
20	110-4136	1	Differential Case ASM
21	254-65	2	Cone-Bearing, Roller
22	254-66	2	Cup-Bearing, Roller
23	21-8090	1	Shim-Bearing, Differential (.003)
23	21-8100	1	Shim-Bearing, Differential (.005)
23	21-8110	1	Shim-Bearing, Differential (.010)
23	21-8120	1	Shim-Bearing, Differential (.030)
24	92-1676	1	Gear And Pinion ASM

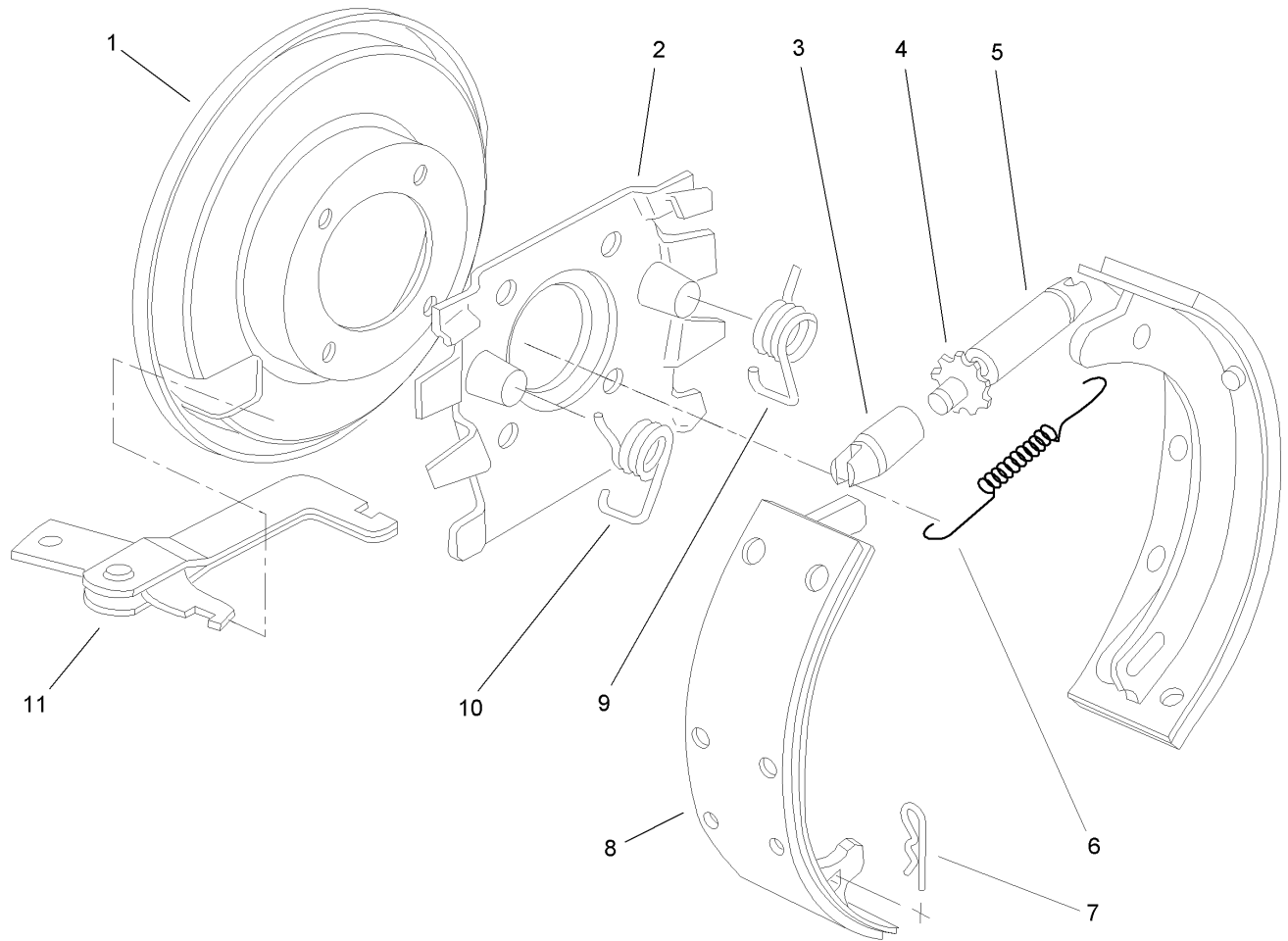
Ref	Part No.	Qty.	Description
25	21-7770	5	Screw-Gear, Drive
26	92-1773	4	Screw-HHF
28	110-3076	1	Carrier ASM
29	43-6760	1	Bearing-Roller, Cone Taper
30	43-6750	1	Bearing-Taper, Cup
31	43-6710	1	Shim-Pinion (.003)
31	43-6711	1	Shim-Pinion (.005)
31	43-6712	1	Shim-Pinion (.010)
31	43-6713	1	Shim-Pinion (.030)
32	21-8020	1	Spacer-Bearing
33	254-90	1	Bearing-Cup
34	254-91	1	Cone-Bearing
35	72-3570	1	Shim-Bearing, Front (.094)
35	72-3571	1	Shim-Bearing, Front (.096)
35	72-3572	1	Shim-Bearing, Front (.098)
35	72-3573	1	Shim-Bearing, Front (.100)
35	72-3574	1	Shim-Bearing, Front (.102)
35	72-3575	1	Shim-Bearing, Front (.104)
35	72-3576	1	Shim-Bearing, Front (.106)
35	72-3577	1	Shim-Bearing, Front (.108)
35	72-3578	1	Shim-Bearing, Front (.110)
35	72-3580	1	Shim-Bearing, Front (.112)
35	72-3581	1	Shim-Bearing, Front (.114)
35	72-3582	1	Shim-Bearing, Front (.116)



### Front Axle Assembly No. 108-6599-03 (continued)

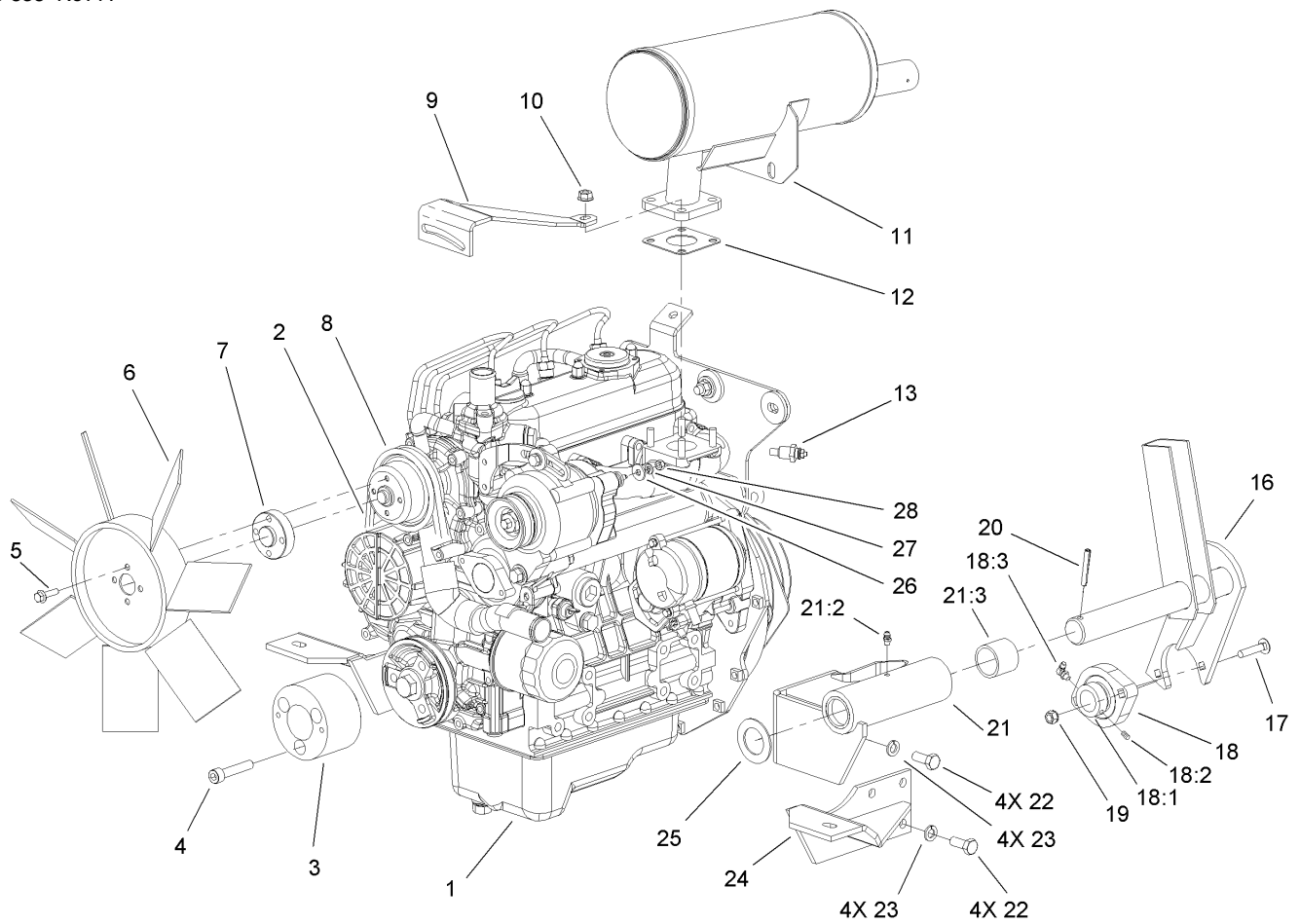
Ref	Part No.	Qty.	Description
35	72-3583	1	Shim-Bearing, Front (.118)
35	72-3584	1	Shim-Bearing, Front (.120)
35	72-3585	1	Shim-Bearing, Front (.125)
35	72-3586	1	Shim-Bearing, Front (.127)
35	72-3587	1	Shim-Bearing, Front (.129)
35	72-3588	1	Shim-Bearing, Front (.131)
35	72-3590	1	Shim-Bearing, Front (.133)
35	72-3591	1	Shim-Bearing, Front (.135)
35	72-3592	1	Shim-Bearing, Front (.137)
35	72-3593	1	Shim-Bearing, Front (.139)
35	72-3594	1	Shim-Bearing, Front (.141)
35	72-3595	1	Shim-Bearing, Front (.143)
35	72-3596	1	Shim-Bearing, Front (.145)
35	72-3597	1	Shim-Bearing, Front (.147)
35	72-3598	1	Shim-Bearing, Front (.149)
35	72-3600	1	Shim-Bearing, Front (.151)
36	71-4330	1	Seal
37	68-7010	1	Flange
38	71-4340	1	Washer
39	71-4350	1	Nut
40	86-7230	1	Gear-Input, Transmission
42	21-7830	1	Cover-Gear
43	12-5450	8	Screw
44	94-6936	8	Washer-Hardened

Ref	Part No.	Qty.	Description
45	94-6935	8	Locknut



## Right and Left Hand Brake Assembly

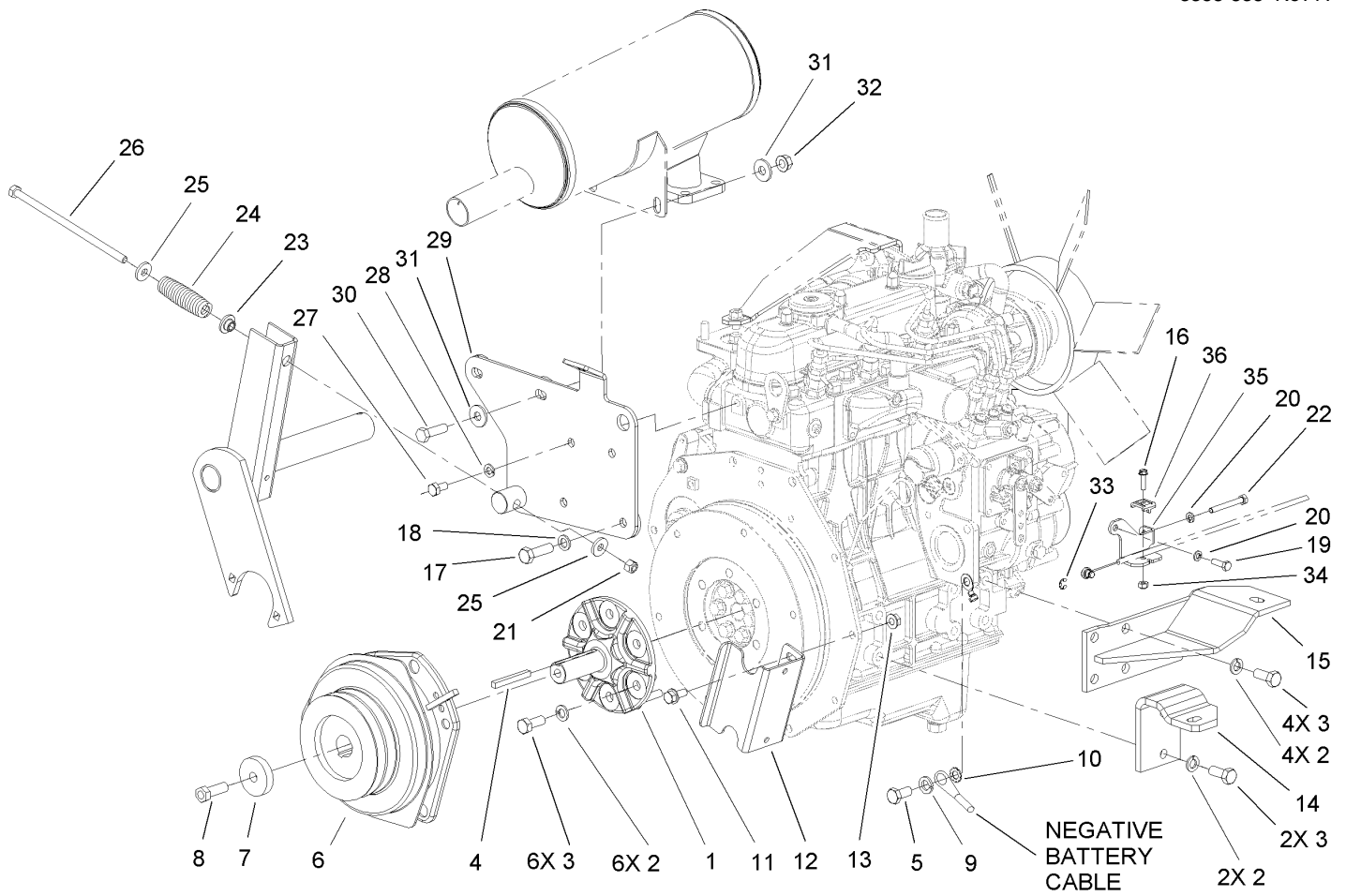
Ref	Part No.	Qty.	Description
1	21-9450	1	Shield-Dust
2	43-6810	1	Spider-Torque
3	21-9390	1	Socket-Screw, Adjusting
4	21-9370	1	Screw-Adjusting
5	21-9380	1	Nut-Pivot
6	21-9440	1	Spring-Screw, Adjusting
7	21-9460	2	Retainer-Lever, Brake
8	84-8600	1	Set-Shoes, Lined
9	21-9430	1	Spring-Return, RH
10	21-9420	1	Spring-Return, LH
11	24-9180	1	Strut And Lever ASM
● 12	92-8775	1	Liquid Gasket Kit



## Engine Assembly No. 1

Ref	Part No.	Qty.	Description
1	114-2885	1	Engine ASM-Kubota
2	104-3494	1	Belt-V
3	104-1723	1	Adapter-Front Drive
4	3274-106	3	Screw-HSH
5	33103-020	4	Screw-HHF
6	104-4246	1	Fan-Engine
7	104-4247	1	Spacer-Fan
8	104-3497	1	Pulley-Fan
9	105-2556-03	1	Brace-Alternator, Upper
10	33004-00	4	Nut-HF
11	108-1363	1	Muffler-Exhaust
12	98-9611	1	Gasket
13	108-8682	1	Thermoswitch
16	106-4381-03	1	PTO Tension Shaft ASM
17	3230-4	2	Screw-CARR
18	92-8799	1	Bearing-Flange
18:1	251-77	1	Collar-Lock, Bearing
18:2	3245-35	1	Screw-Set
18:3	302-40	1	Fitting-Grease
19	32149-1	2	Nut-Keps
20	32121-32	1	Pin-Roll
21	104-3417	1	LH Engine Mount ASM
21:2	302-5	1	Fitting-Grease
21:3	256-299	2	Bushing-Straight

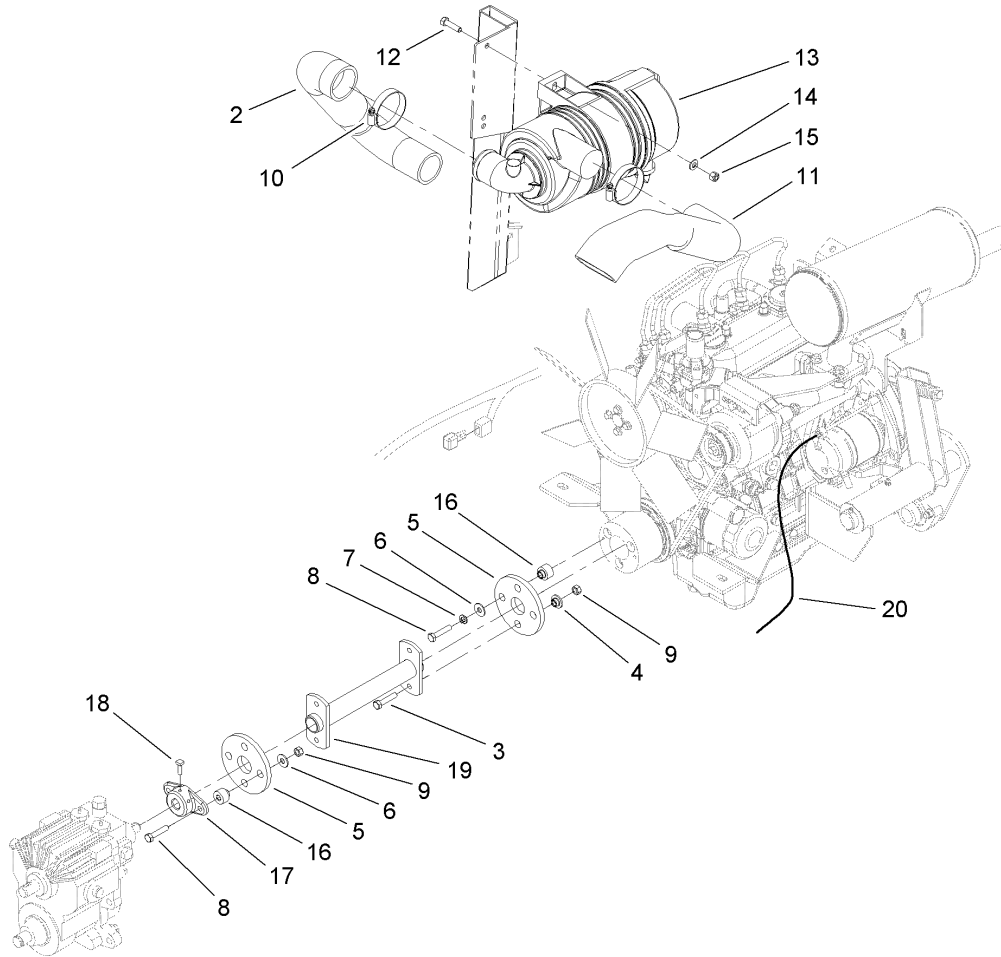
Ref	Part No.	Qty.	Description
22	43-0090	8	Screw-HH
23	42-9600	8	Washer-Lock, Spring
24	104-1702-03	1	Engine Mount ASM
25	3-4324	1	Washer-Flat
26	3256-22	1	Washer-Flat
27	43-5930	1	Washer-Spring
28	33013-00	1	Nut-Hex



## Engine Assembly No. 2

Ref	Part No.	Qty.	Description
1	104-1715	1	Hub-Clutch
2	42-9600	12	Washer-Lock, Spring
3	43-0090	12	Screw-HH
4	63-8150	1	Key-Square
5	63-7790	1	Screw-Cap
6	107-9061	1	Electric Clutch / Brake ASM
7	105-3698	1	Spacer
8	3212-5	1	Screw-HH
9	3253-6	1	Washer-Lock
10	3255-9	1	Washer-Lock
11	3234-5	2	Screw-HHF
12	108-6586-03	1	Stop-Clutch
13	32128-25	2	Nut-HF
14	104-1713-03	1	Mount-Engine
15	104-1710-03	1	Engine Mount ASM
16	32105-13	1	Screw-HWH
17	56-2140	2	Bolt
18	48-9590	2	Washer-Lock
19	48-7630	1	Screw
20	48-8020	2	Washer-Spring
21	3296-29	1	Nut-Lock, NI
22	33113-050	1	Screw-HH
23	27-6600	1	Spacer-Coupling
24	21-0400-01	1	Spring-Compression

Ref	Part No.	Qty.	Description
25	4-2390	2	Washer-Flat
26	110-9696	1	Bolt-HH
27	33114-016	2	Screw-HH
28	3253-4	2	Washer-Lock
29	108-6561-03	1	Muffler Mount ASM
30	323-44	2	Screw-HH
31	80-6990	4	Washer-Hardened
32	32128-21	2	Nut-HF
33	701197	1	E-Ring
34	3296-2	1	Nut-Lock
35	110-9682-03	1	Bracket-Throttle
36	81-1690	1	Clamp-Cable

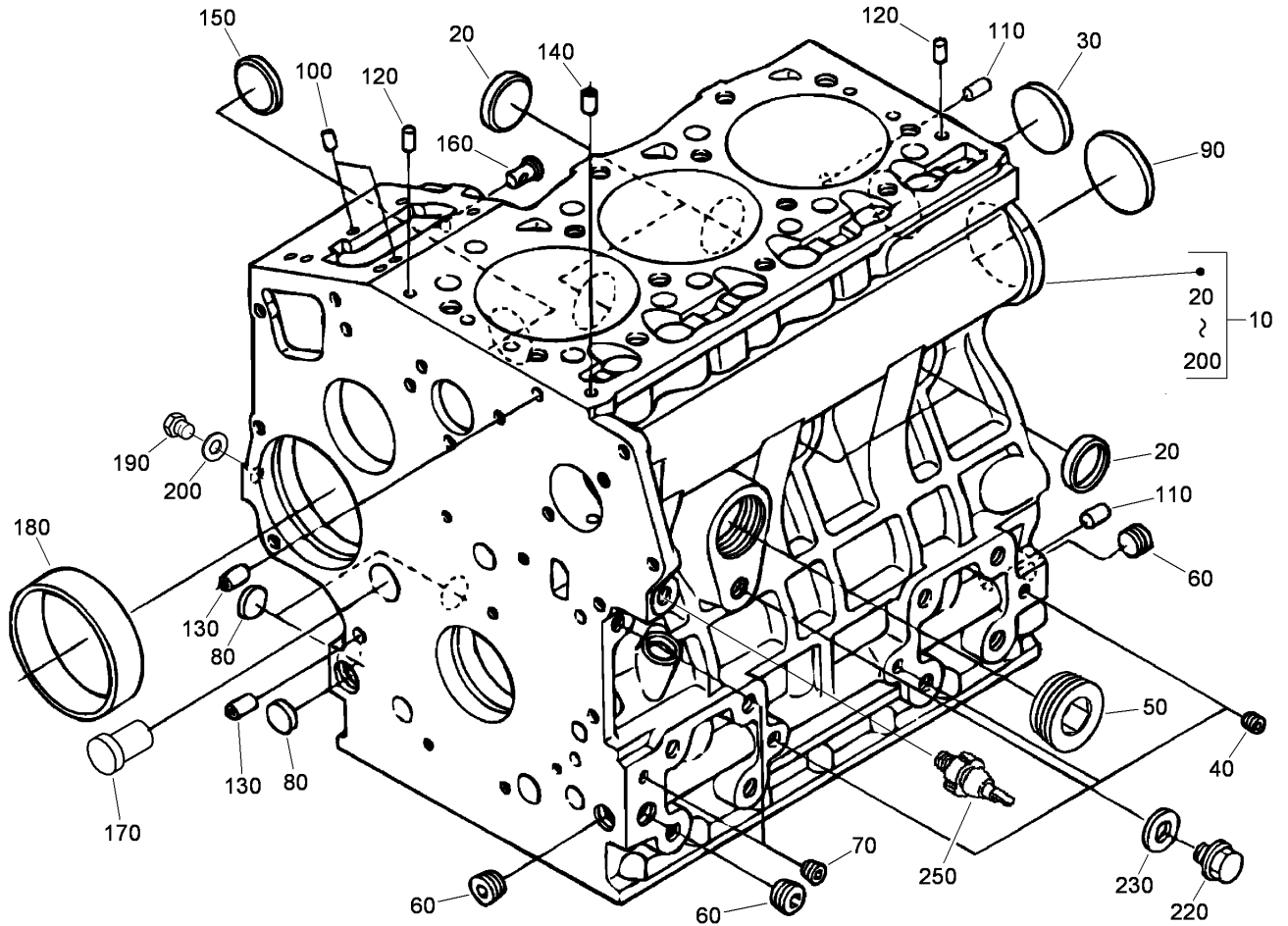


## Air Cleaner and Drive Coupling Assembly

Ref	Part No.	Qty.	Description
2	104-3446	1	Hose-Outlet, Air
3	3210-5	4	Screw-HH
4	27-6600	4	Spacer-Coupling
5	44-2230	2	Coupling-Rubber
6	3256-71	4	Washer-Flat
7	3253-4	2	Washer-Lock
8	3210-8	4	Screw-HH
9	32152-5	6	Nut-Lock, Cone
10	2412-42	3	Clamp-Hose
11	104-3444	1	Hose-Inlet, Air
12	322-6	2	Screw-HH
13	104-3427	1	Air Cleaner ASM
14	3256-23	2	Washer-Flat
15	3296-29	2	Nut-Lock, NI
16	27-6590	4	Spacer-Coupling, Rubber
17	27-4370	1	Hub-Pump
18	3241-6	2	Screw-SQH
19	104-3401-03	1	Drive Shaft ASM
20	99-3441	1	Harness-Wire, Fusible Link

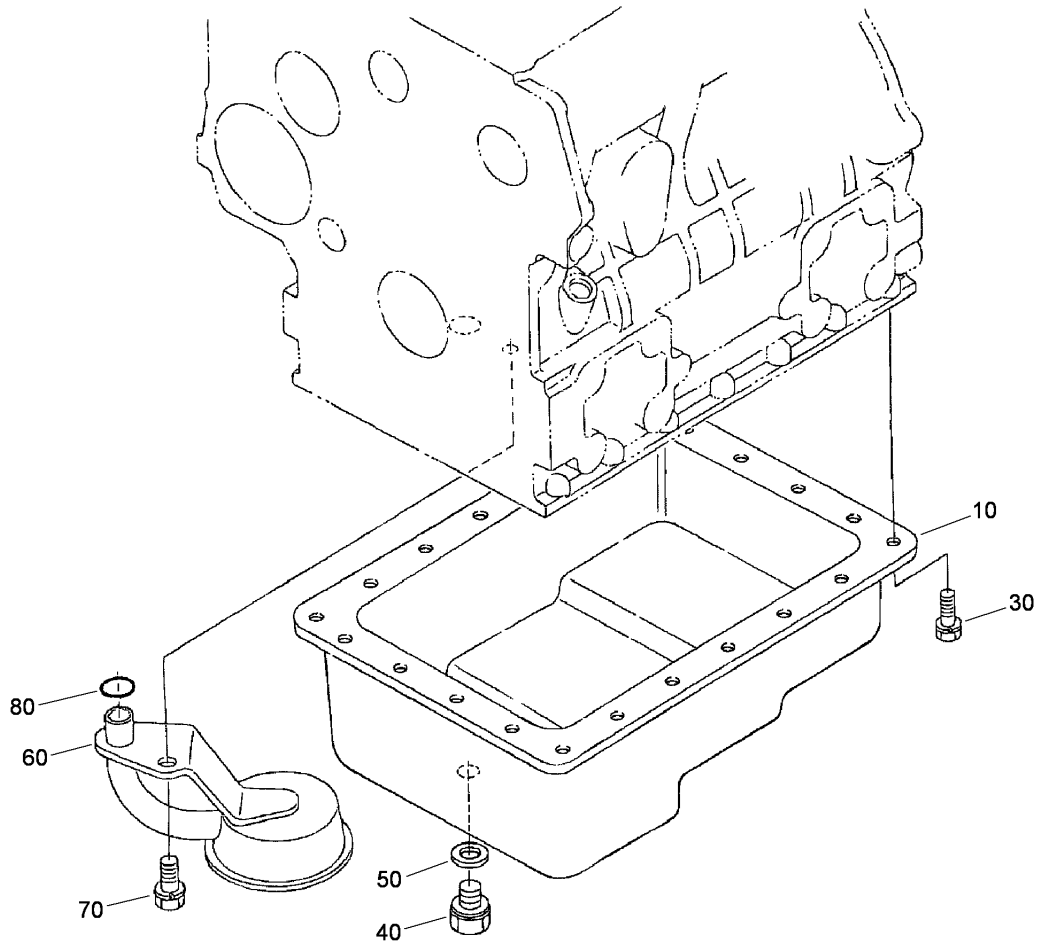
--	--	--	--





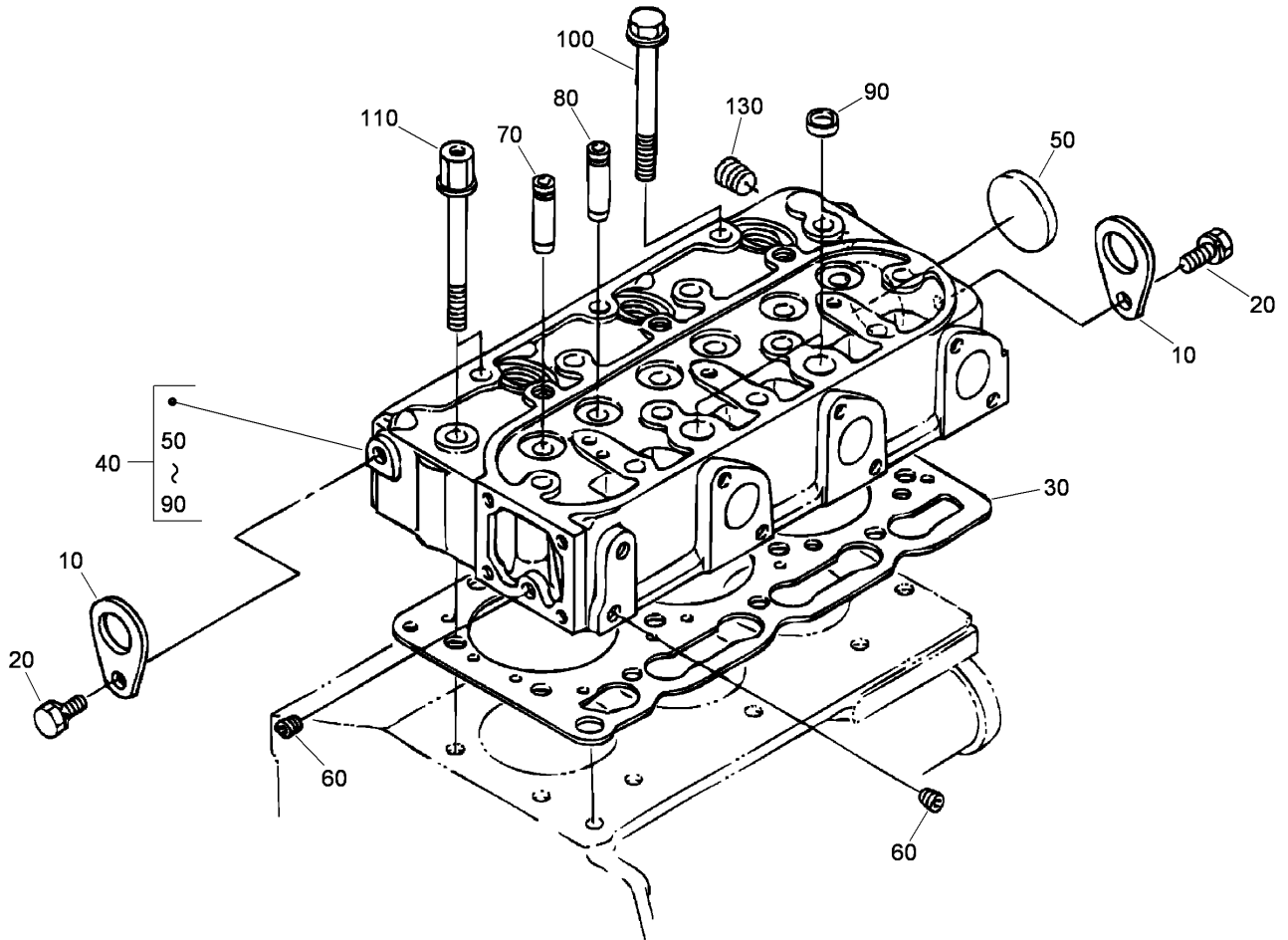
## Crankcase Assembly

Ref	Part No.	Qty.	Description
10	108-6571	1	Crankcase ASM
20	98-9398	4	Cap-Sealing
30	98-7539	1	Cap-Sealing
40	98-9687	3	Plug
50	105-3779	1	Plug
60	98-9597	3	Plug
70	98-7487	2	Plug
80	98-9379	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

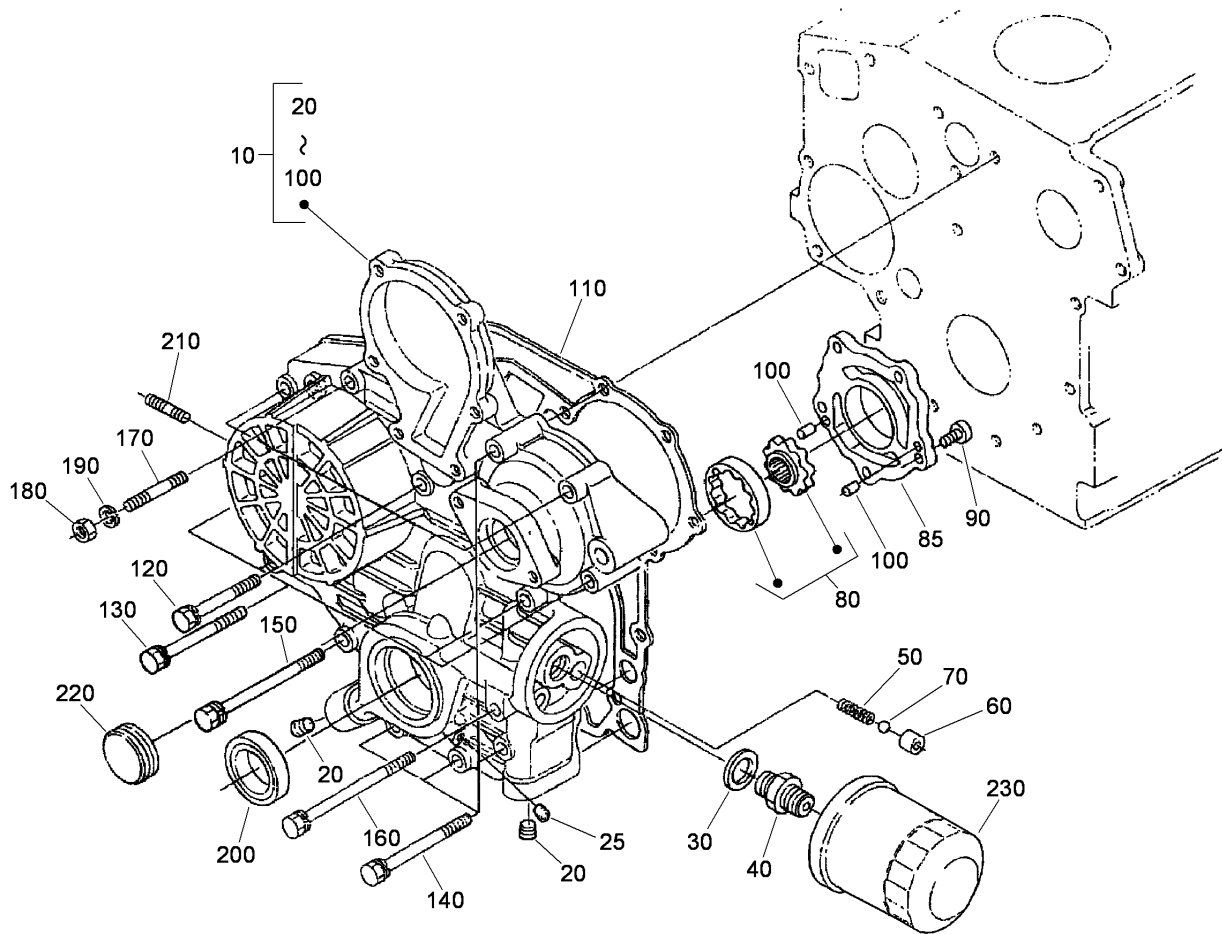
### Oil Pan Assembly

Ref	Part No.	Qty.	Description
10	104-3495	1	Pan-Oil
30	107-9065	22	Bolt
40	108-6572	1	Plug-Drain
50	98-7524	1	Gasket
60	104-3496	1	Filter-Pickup, Oil
70	98-7526	1	Bolt
80	105-3776	1	O-Ring



### 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	105-3705	1	Cap-Sealing
60	98-9687	2	Plug
70	107-9066	3	Guide-Valve, Inlet
80	107-9067	3	Guide-Valve, Exhaust
90	98-9389	2	Cap-Sealing
100	98-9479	1	Bolt-Head, Cylinder
110	98-9647	2	Bolt-Head, Cylinder
130	98-9444	1	Plug



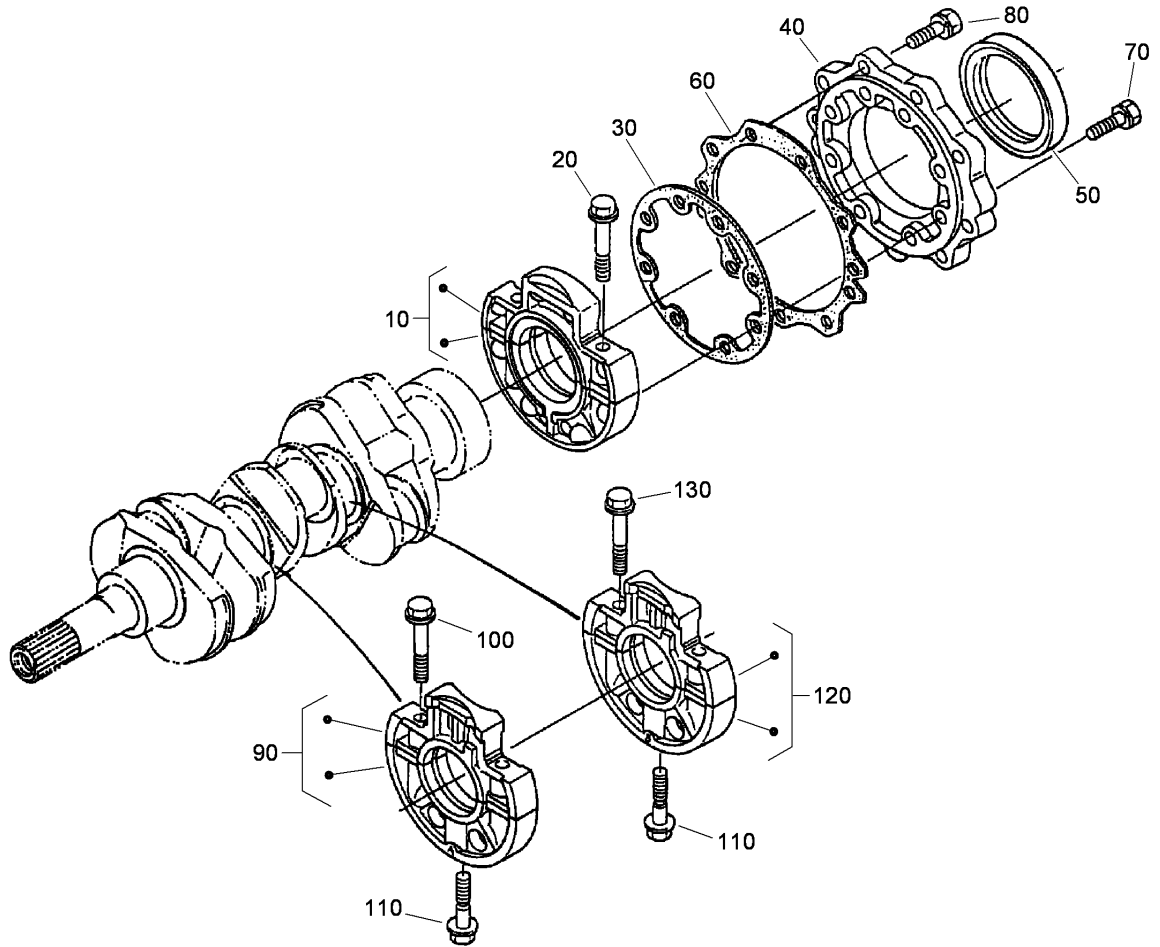
## Gear Case Assembly

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	108-3841	1	Filter-Oil

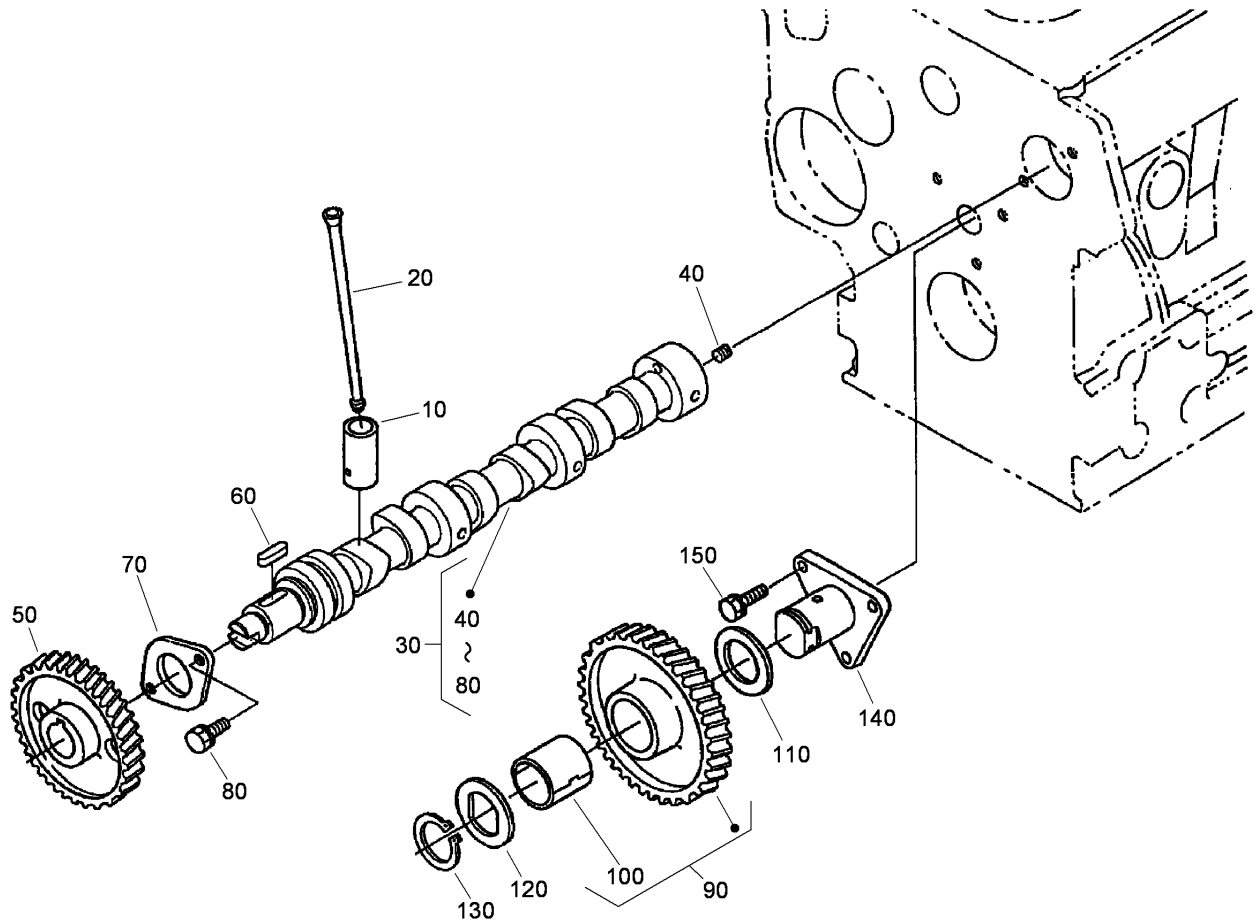






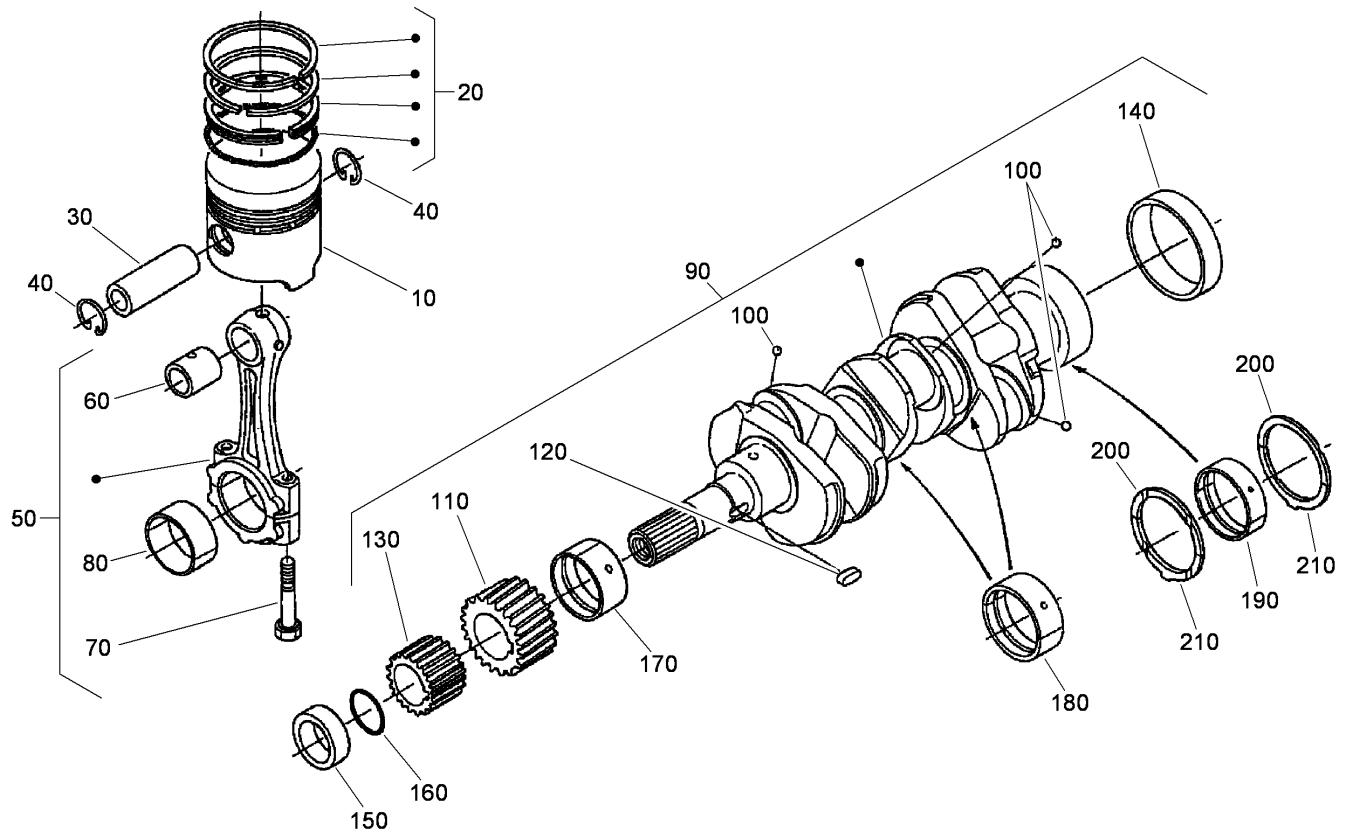
## Main Bearing Case Assembly

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	112-0180	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

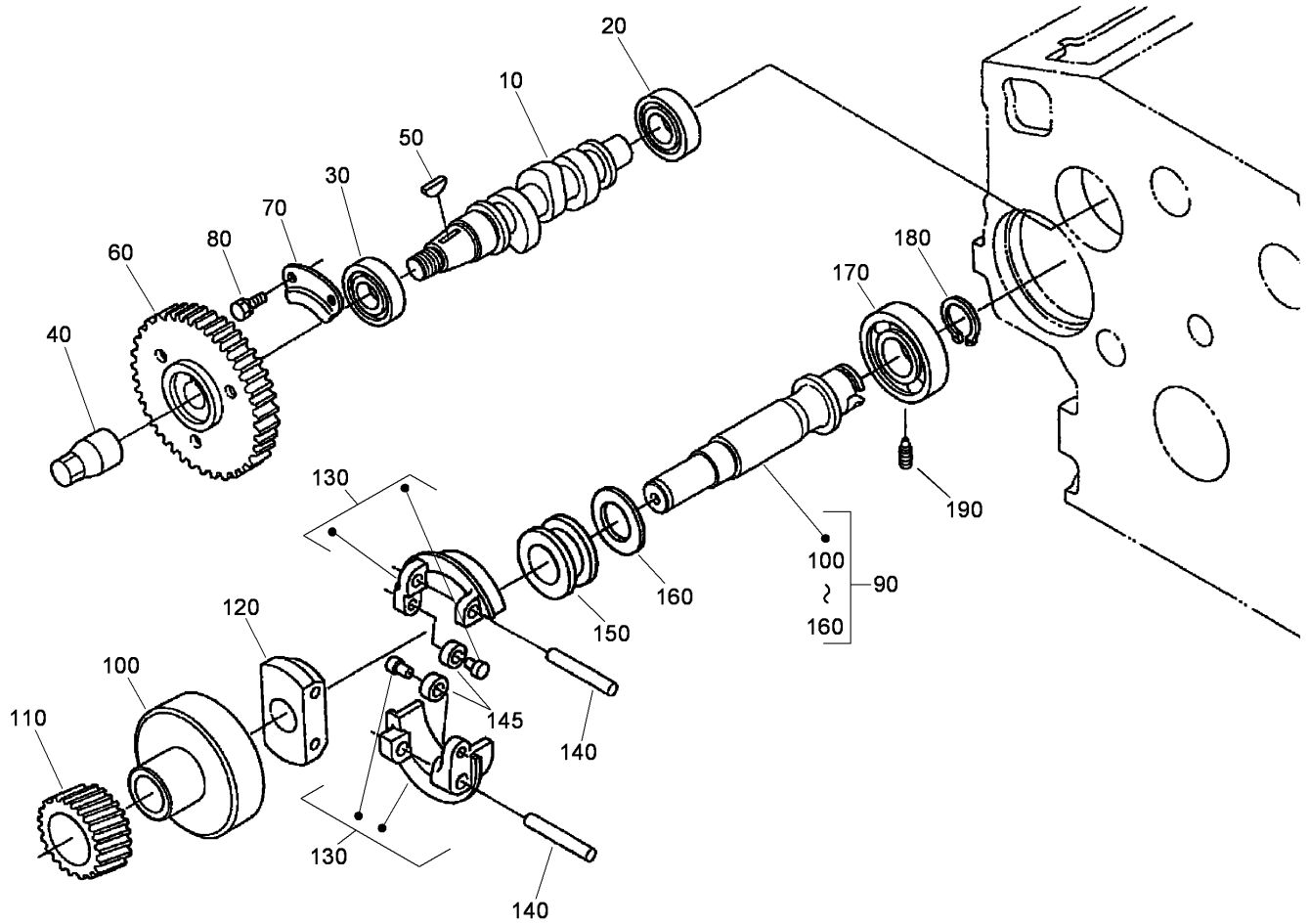



## Piston and Crankshaft Assembly

Ref	Part No.	Qty.	Description
10	112-8415	3	Piston ASM
10	112-8404	3	Piston
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	110-3729	3	Ball
110	98-9532	1	Gear-Crankshaft
120	98-9666	1	Key
130	98-9542	1	Gear-Drive, Oil Pump
140	98-9522	1	Sleeve-Crankshaft
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)

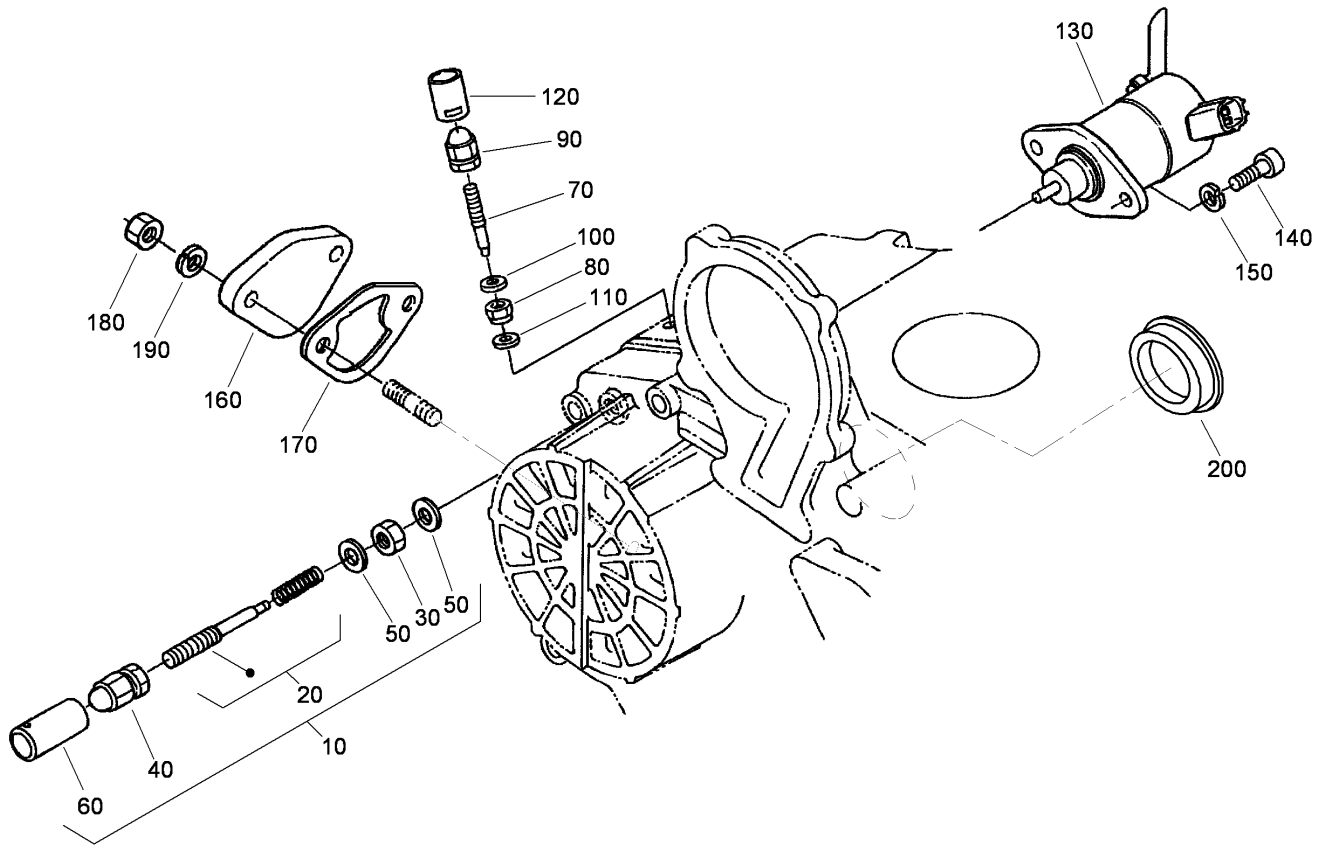
Ref	Part No.	Qty.	Description
180	98-9530	2	Bearing-Main (0.2Mm)
180	98-9531	2	Bearing-Main (0.4Mm)
190	112-7006	1	Bearing-Main (STD)
190	112-7007	1	Metal-Crankshaft (.2Mm)
190	112-7008	1	Metal-Crankshaft (.4Mm)
200	98-9413	2	Bearing-Thrust (STD)
200	98-9414	2	Bearing-Thrust (0.2Mm)
200	98-9415	2	Bearing-Thrust (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)





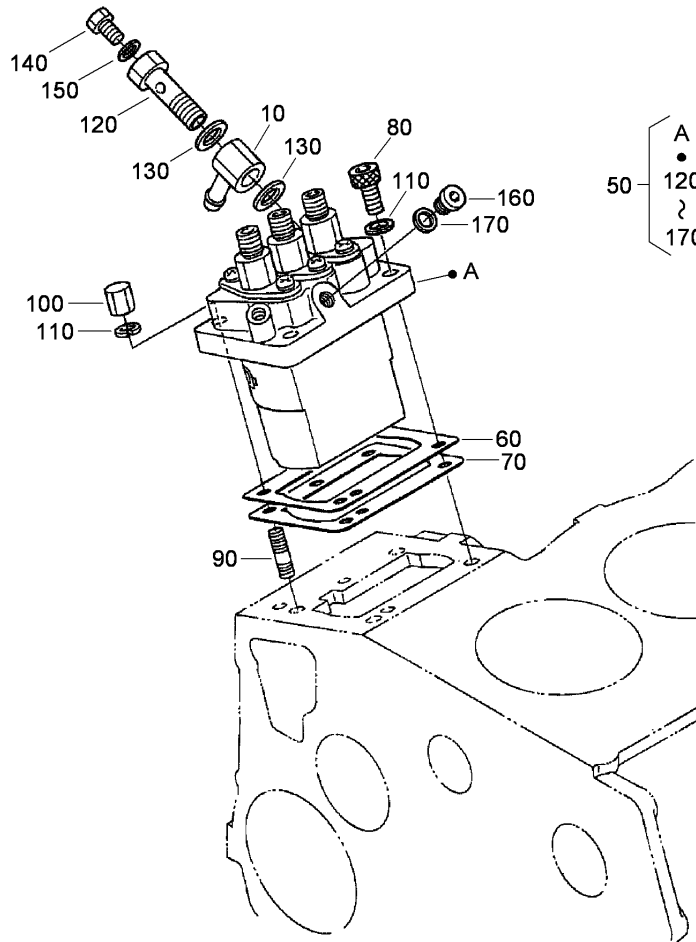
## Fuel Camshaft and Governor Shaft Assembly

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

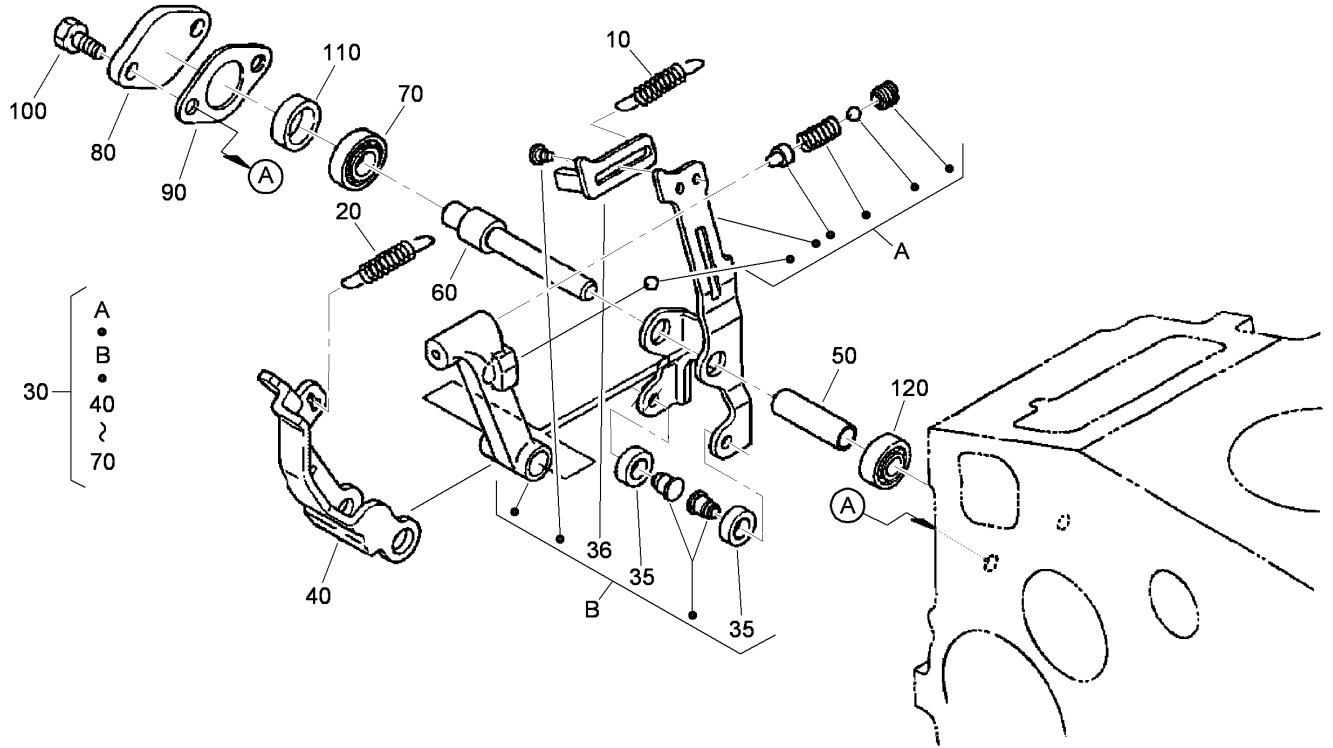
### Idle Apparatus Assembly

Ref	Part No.	Qty.	Description				
10	98-9678	1	Idle Apparatus ASM				
20	112-7014	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	112-7015	1	Bolt-Adjusting				
80	99-3512	1	Nut				
90	99-8387	1	Nut-Cap				
100	98-7654	1	Gasket				
110	107-9081	1	Gasket				
120		1	Pipe-Lock				
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	112-7016	1	Cover-Pump				



### Injection Pump Assembly

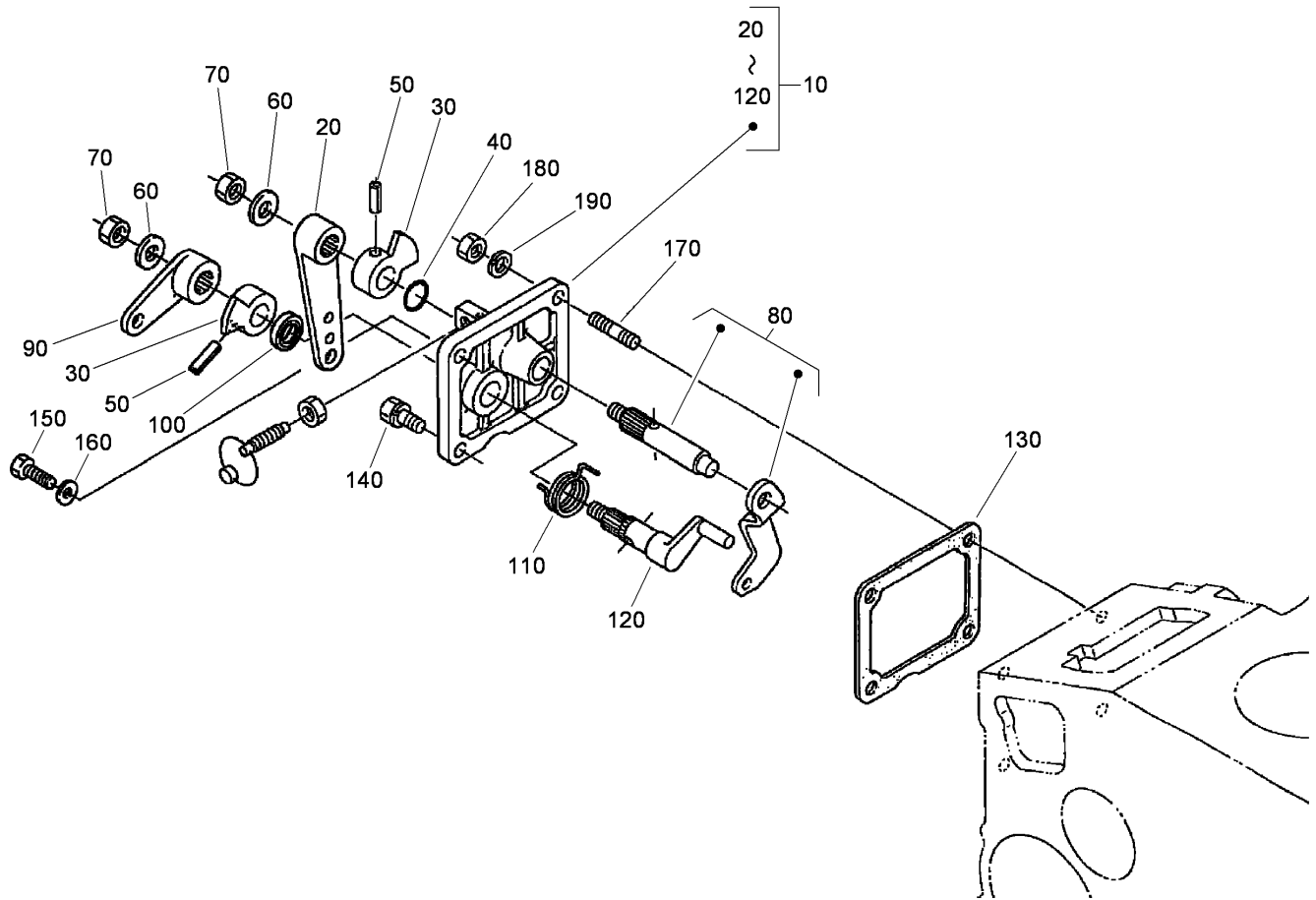
Ref	Part No.	Qty.	Description
10	98-9596	1	Joint-Eye
50	98-9643	1	Injection Pump ASM
60	98-9457	1	Shim-Injection (0.25Mm)
60	98-9456	1	Shim (0.2Mm)
70	98-9458	1	Shim-Injection (0.30Mm)
80	98-9361	2	Bolt-HSH
90	98-9438	2	Stud
100	98-9440	2	Nut-Cap
110	98-7699	4	Washer-Spring
120	98-9464	1	Bolt-Joint
130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



## 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

--	--	--	--

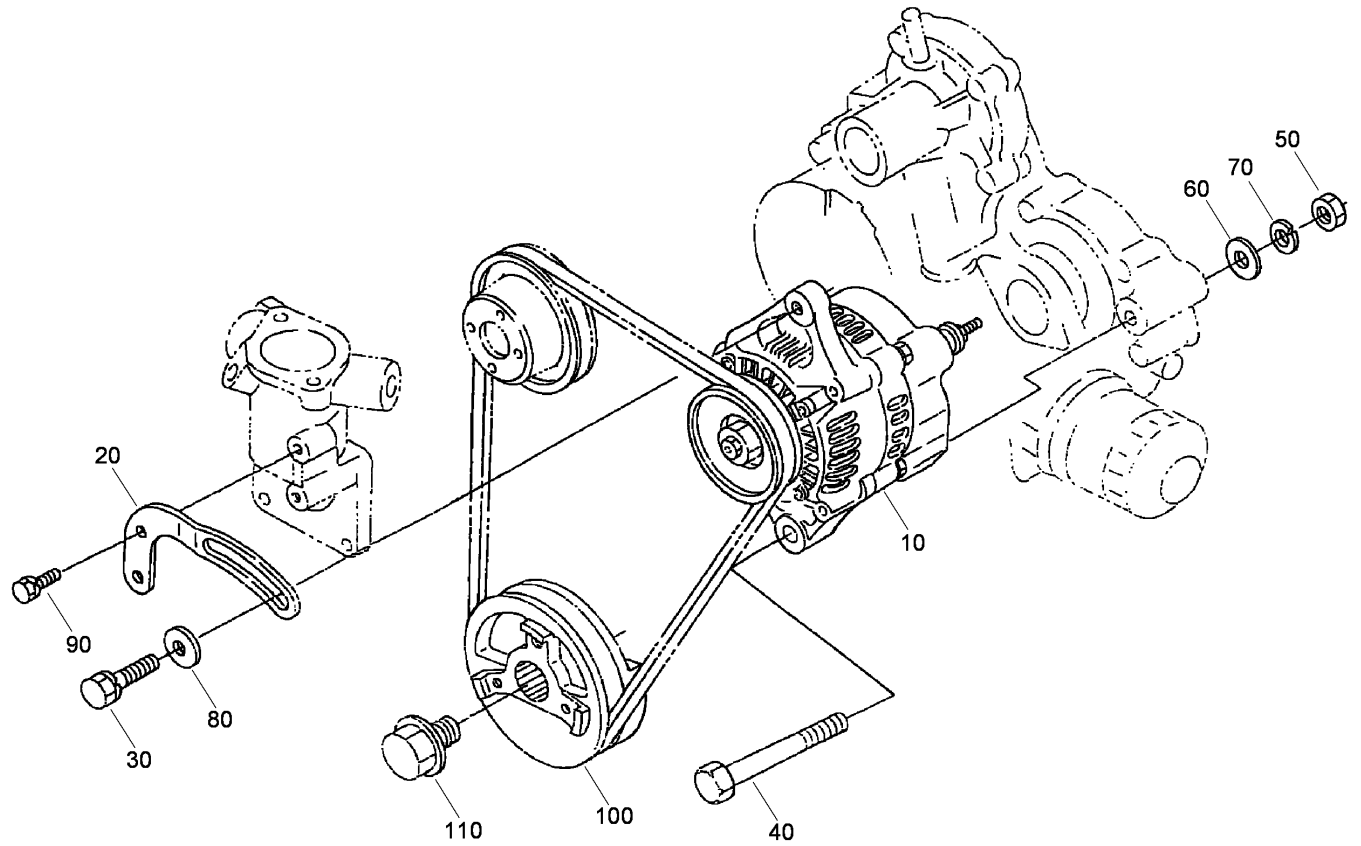


### Speed Control Plate Assembly

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

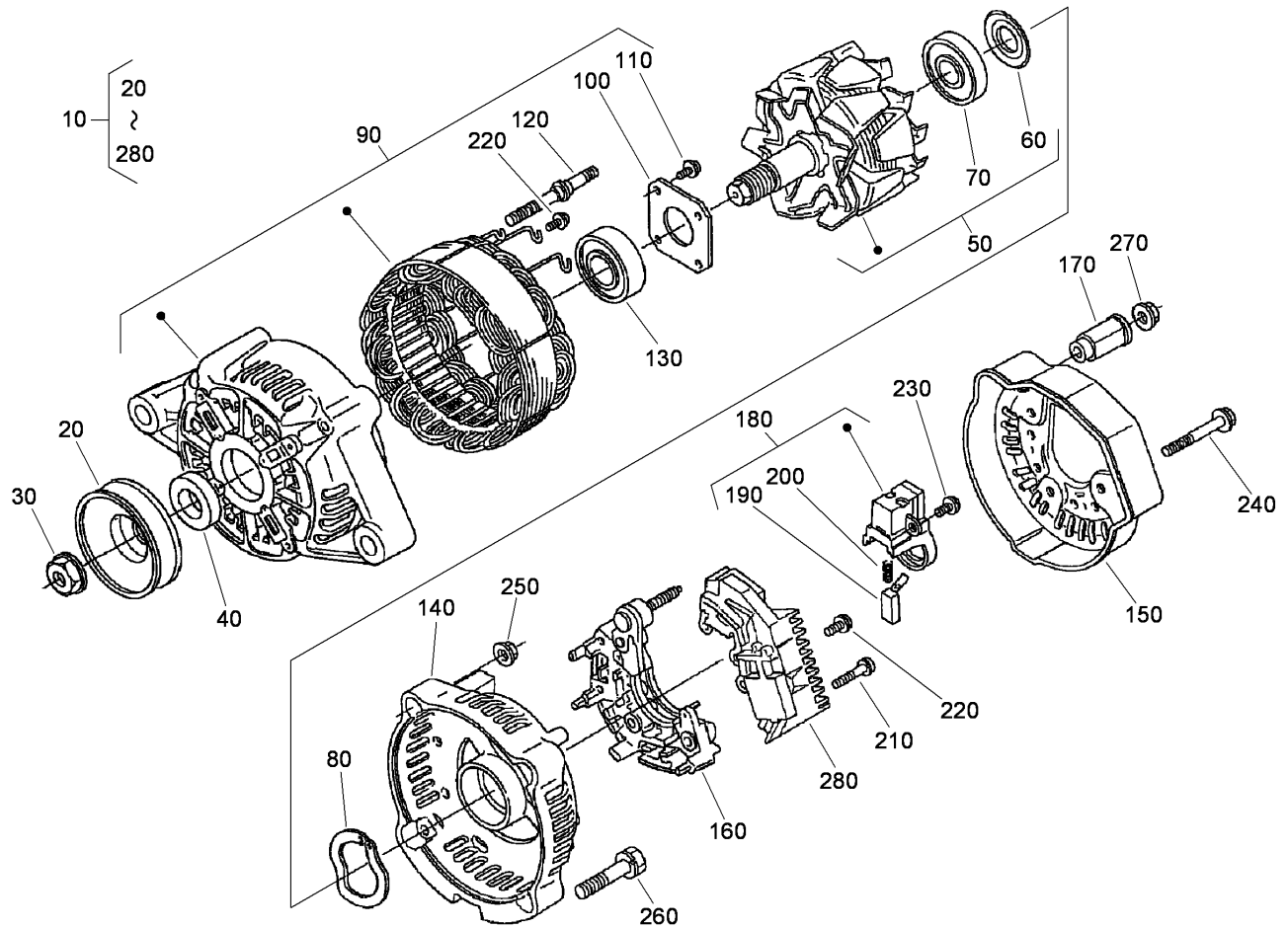




## Alternator and Pulley Assembly

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

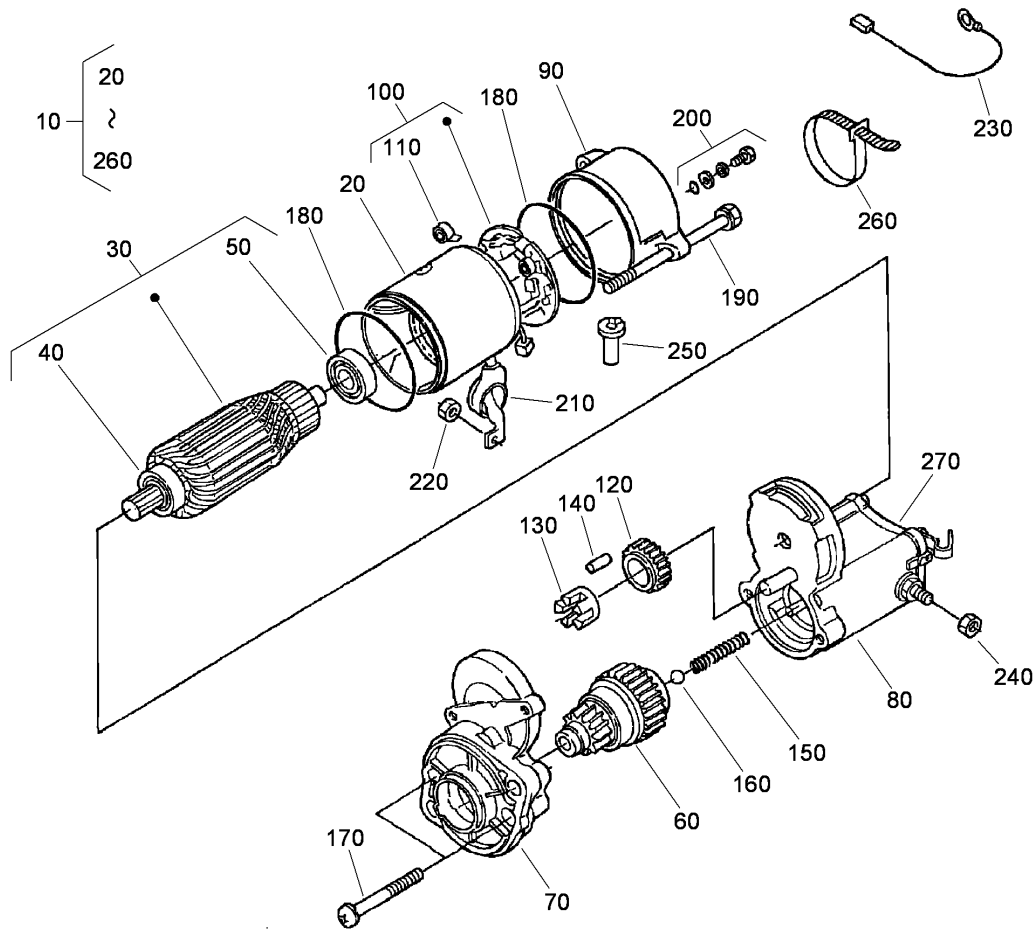


## Alternator Components

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	98-7721	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	110-3799	1	Regulator ASM



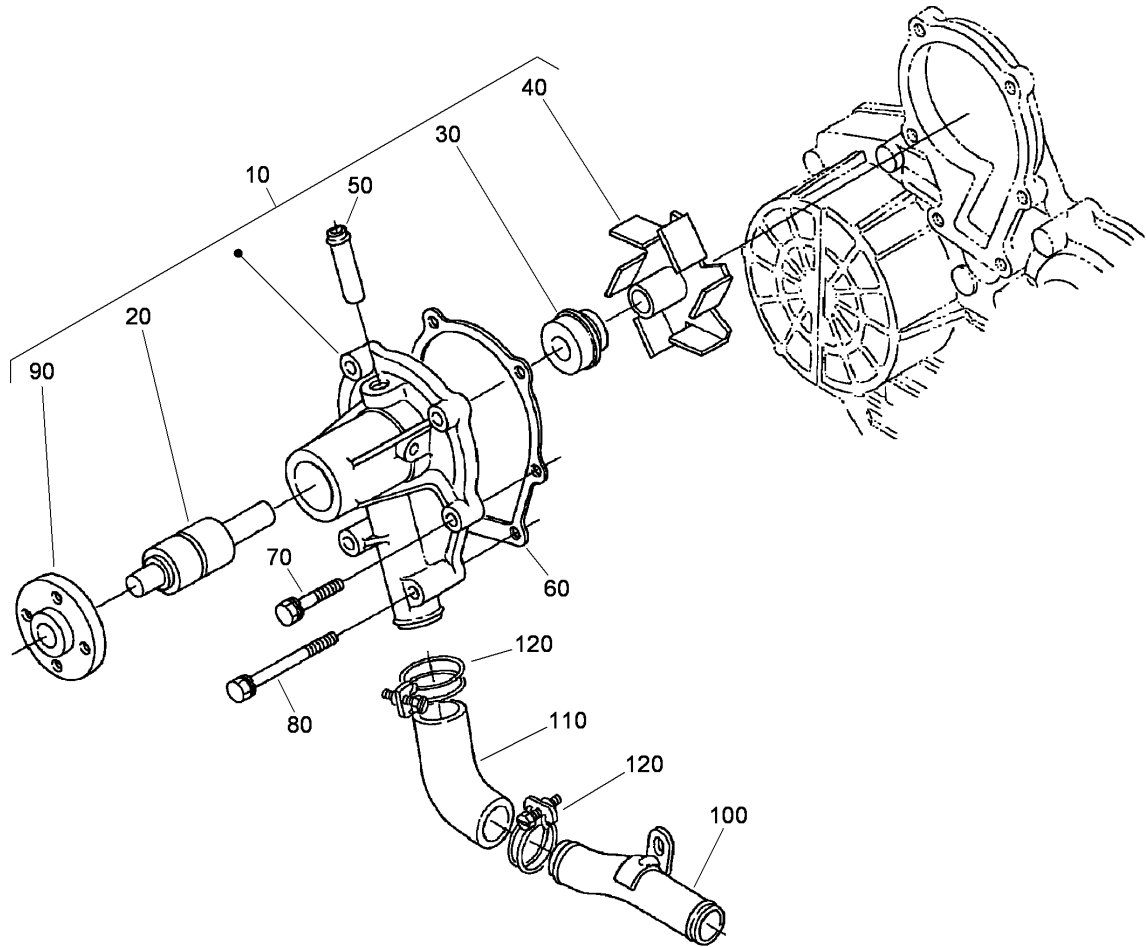


### Starter Component Assembly

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	98-9707	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

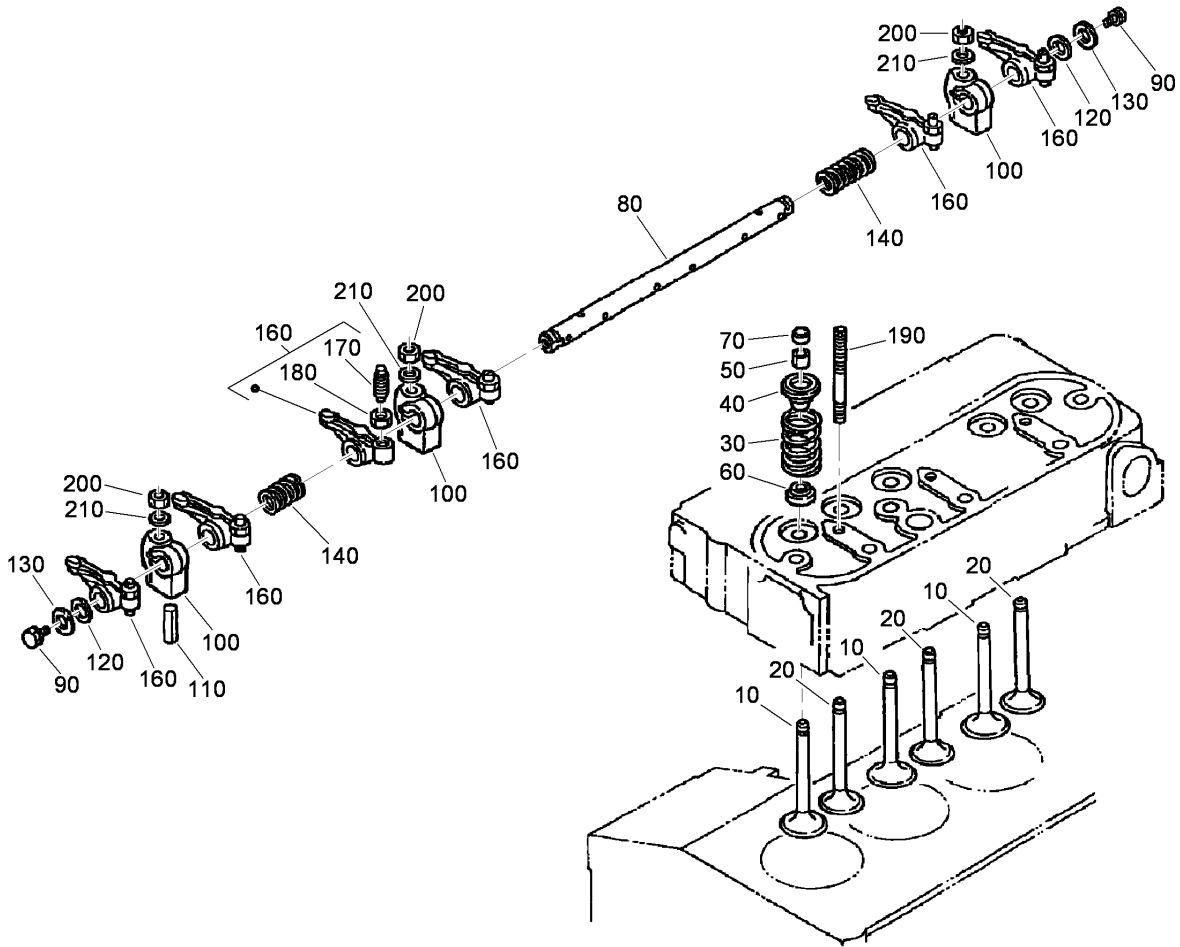
Ref	Part No.	Qty.	Description
250	98-7759	1	Pipe-Drain
260	98-9712	1	Band-Cover
270	105-2886	1	Cover ASM





## Water 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	112-8403	1	Impeller ASM				
50	100-1932	1	Pipe-Return, Water				
60	99-3454	1	Gasket-Pump, Water				
70	98-9353	4	Bolt				
80	107-9090	2	Bolt				
90	99-3516	4	Flange-Pump, Water				
100	98-9716	1	Pipe-Water				
110	107-9091	1	Pipe-Water				
120	98-9717	2	Clamp				

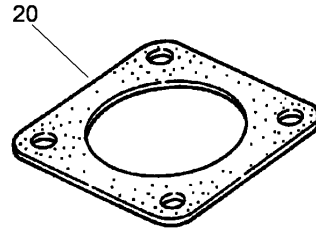
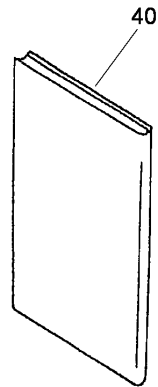


## Valve and Rocker Arm Assembly

Ref	Part No.	Qty.	Description
10	112-7018	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

--	--	--	--





### Muffler Gasket and Operator Manual

Ref	Part No.	Qty.	Description
20	99-8343	1	Gasket-Muffler
40	99-8954	1	Manual-Kubota

|--|--|--|--|



# Attachments and Accessories

## For 30345 - Groundsmaster 3280-D 4-Wheel Drive Traction Unit

Product Name	Model/Part
Premium Engine Oil, 10w30 (Drum)	108-1179
Premium Engine Oil, 10w30 (Pail)	108-1180
Premium Engine Oil, 15w40 (Drum)	108-1181
Premium Engine Oil, 15w40 (Pail)	108-1182
Premium Transmission/Hydraulic Tractor Fluid (Drum)	108-1183
Premium Transmission/Hydraulic Tractor Fluid (Pail)	108-1184
Premium All Season Gear Lube (Pail)	108-1187
Premium All Purpose Grease	108-1190
Premium All Season Gear Lube (Quart)	108-1590
Wheel	108-6563
Wheel And Tire ASM (Wide Tire Option)	108-6598
65 lb. Weight Kit	108-9682
Armrest Adapter Kit	108-9687
Wheel Weight Kit	11-0440
Auxiliary Valve Kit	110-5670
Implement Flow Control Kit	110-5699
Blower Drive and Mounting Kit	110-8539
Attachment Frame Kit	110-8540
Rear Axle Skid Plate Kit	110-9694
Element-Safety, 5 Inch	114-4057
Tire	231-95
Rear Weight Kit	24-5780
V-Plow Mounting Kit	30311
Mechanical Seat Suspension Kit	30312
Pneumatic Seat Suspension Kit	30313
15 Cubic Foot Bagger Kit	30356
60 Inch Blower Kit	30357
Bimini Sunshade for 2-Post Roll-Over Protection System	30358
Hardtop Sunshade	30359
60 Inch Side Discharge Mower	30366
62 Inch Rear Discharge Mower	30367
72 Inch Side Discharge Mower	30368
72 Inch Rear Discharge Mower	30369
62 Inch Guardian Recycler Mower	30376
72 Inch Guardian Recycler Mower	30379
Auxiliary Power Unit	30382
Cab ASM	30391
Standard Seat Kit	30398
52 Inch Blower Kit	30502
52 Inch Side Discharge Mower	30555
Arm Rest Kit	30707
48 Inch V-Plow	30750
Debris Blower	30823
Tire	69-9880
Spark Arrestor Screen	75-6880
Tire Chains (23 x 9.50-12)	82531
Drive Shaft Kit	92-9075

