



Groundsmaster® 3280-D Traction Unit

Model No. 30344 - 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.

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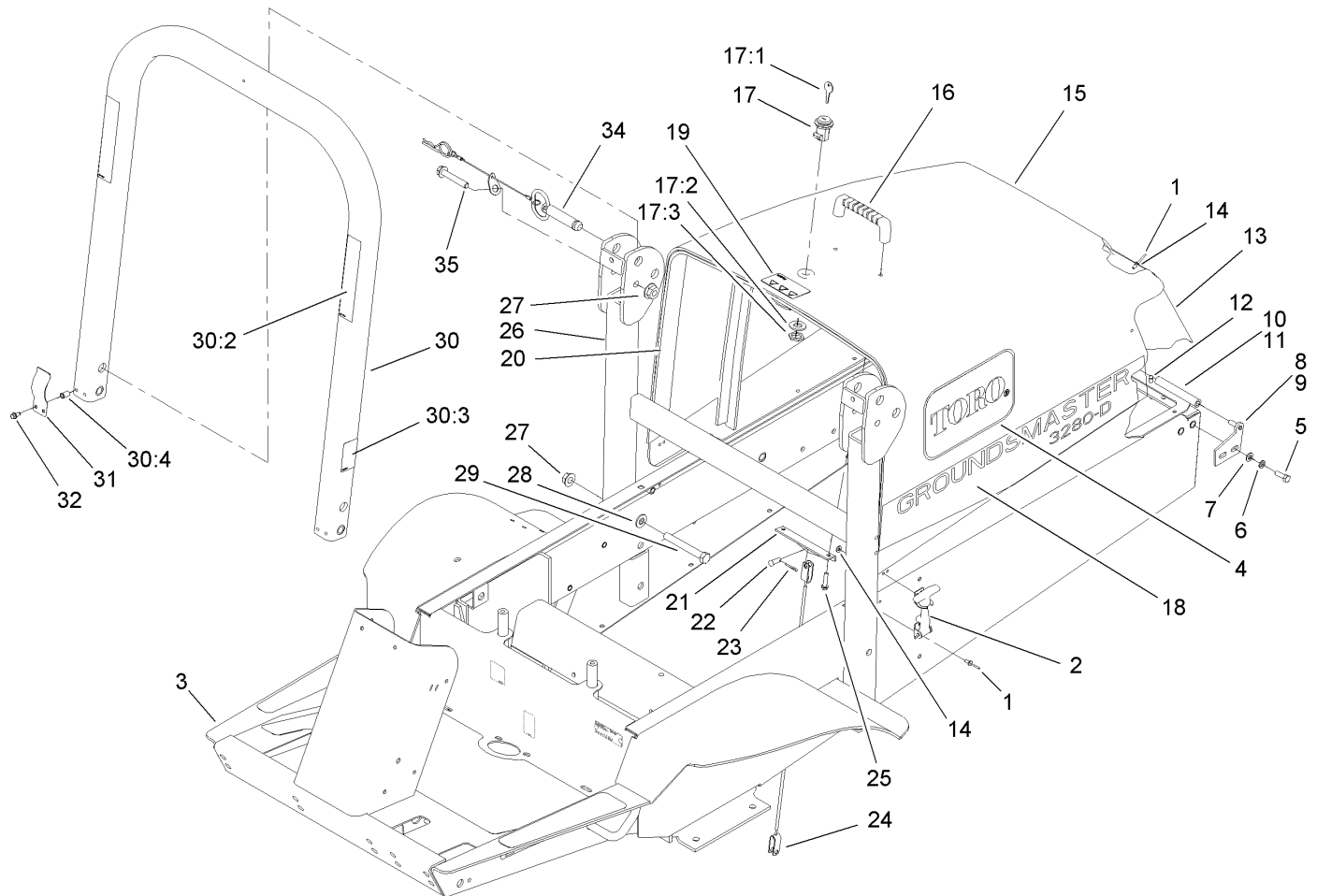
Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

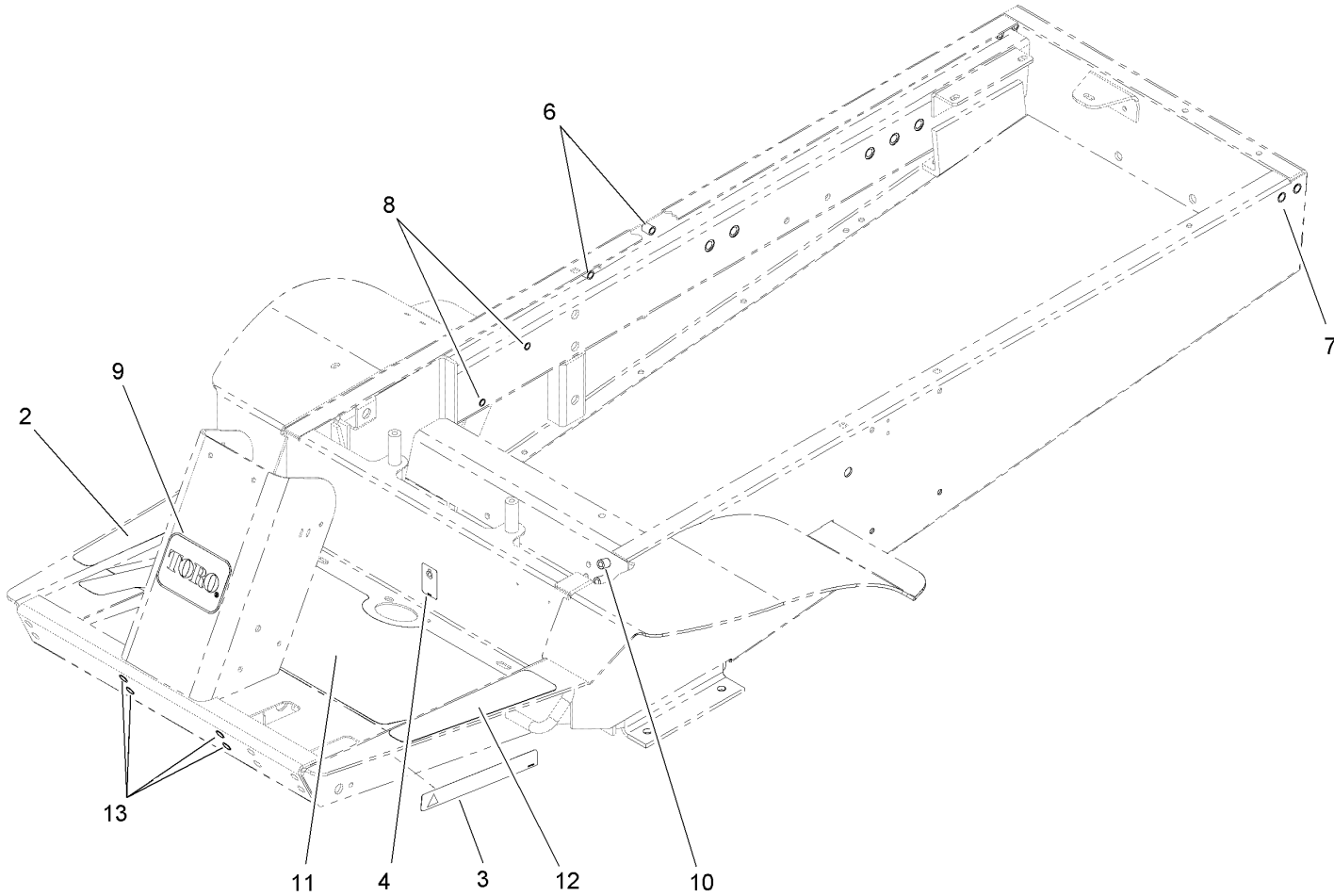
Footnotes

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



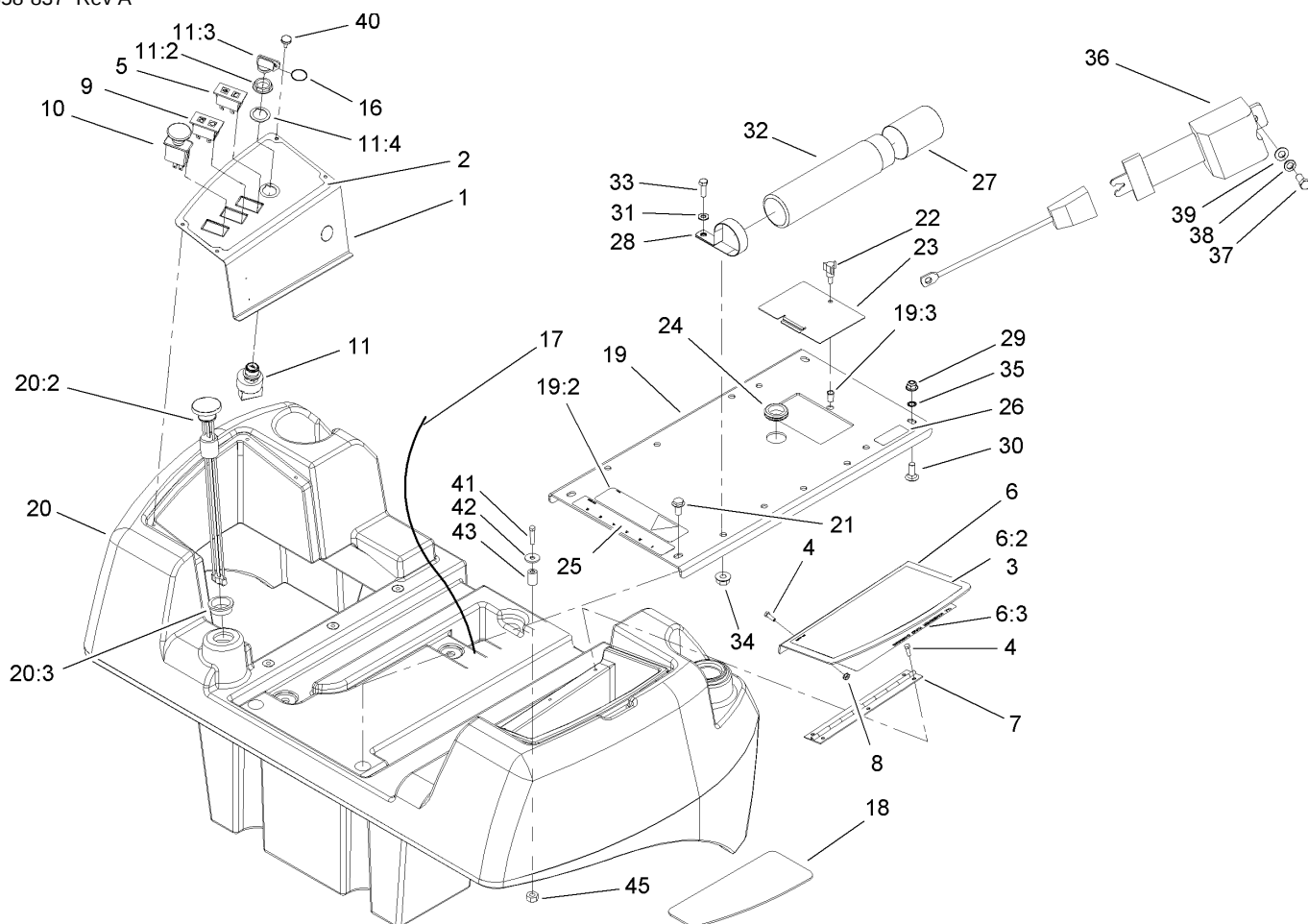
Frame and Hood Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	3269-4	18	Rivet-Pop	22	283-58	2	Pin-Clevis
2	95-6339	2	Latch	23	3272-10	2	Pin-Cotter
3	108-2010	1	Frame ASM	24	105-3650	1	Cable-Hood
4	66-6140	2	Decal	25	46-8092	2	Screw-Plastite
5	322-5	4	Screw-HH	26	110-5693-03	1	Lower ROPS ASM
6	3253-4	4	Washer-Lock	27	32128-23	6	Nut-HF
7	3256-23	4	Washer-Flat	28	3256-26	4	Washer-Flat
8	105-0003-01	1	RH Hinge Pin ASM	29	325-18	4	Screw-HH
9	105-0004-01	1	LH Hinge Pin ASM	30	110-5690	1	Upper ROPS ASM
10	105-4278-03	1	LH Hood Hinge ASM	30:2	108-2073	2	Decal-Warning
11	105-4277-03	1	RH Hood Hinge ASM	30:3	108-2074	1	Decal-ROPS
12	3290-412	12	Rivet	30:4	32148-11	4	Insert-Threaded
13	105-0006-03	1	Screen-Hood	31	110-5696	2	Spring-Leaf
14	3256-14	14	Washer-Flat	32	32144-10	4	Screw-HWH
15	104-3485	1	Hood	34	103-4553	2	ROPS Fold Pin ASM
16	65-5100	1	Handle-Door	35	325-13	2	Screw-HH
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				



Frame Assembly No. 108-2010

Ref	Part No.	Qty.	Description				
2	93-7834	1	Decal-Footrest, RH				
3	106-9206	2	Decal-Torque, Wheel				
4	93-6686	1	Decal-Oil, HYD				
6	32148-9	2	Insert-Nut				
7	32148-7	4	Nut-Insert				
8	32148-11	2	Insert-Threaded				
9	67-1300	1	Decal				
10	32148-8	4	Insert-Threaded				
11	105-7160	1	Pad-Floor				
12	66-3200	1	Tread-Footrest, LH				
13	32148-10	4	Insert-Nut				



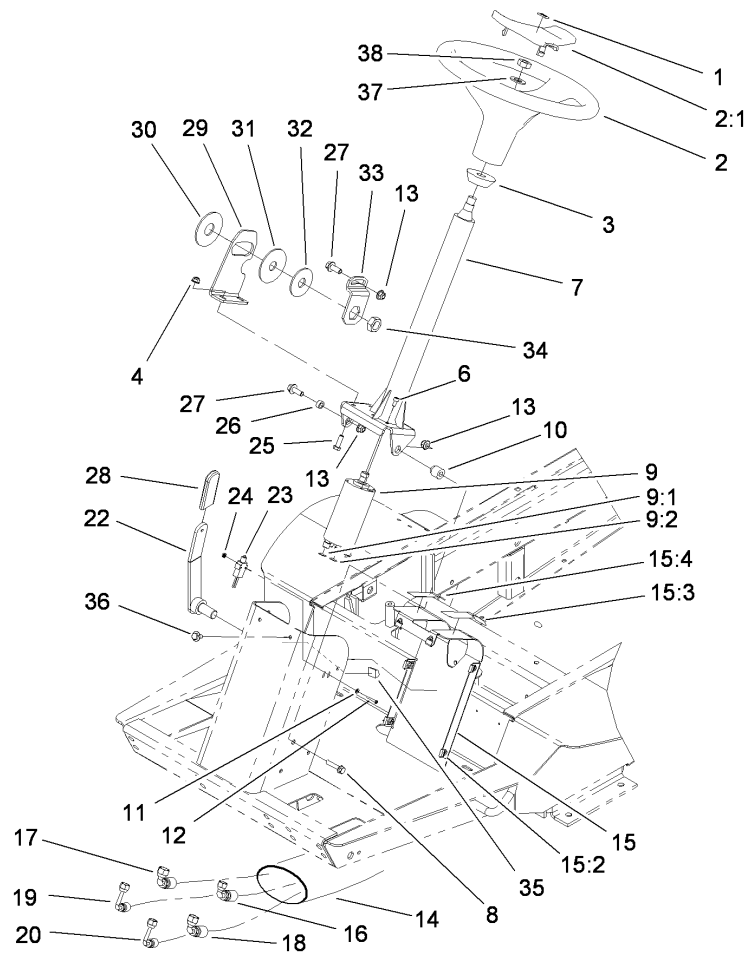
Fuel Tank and Control Panel Assembly

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

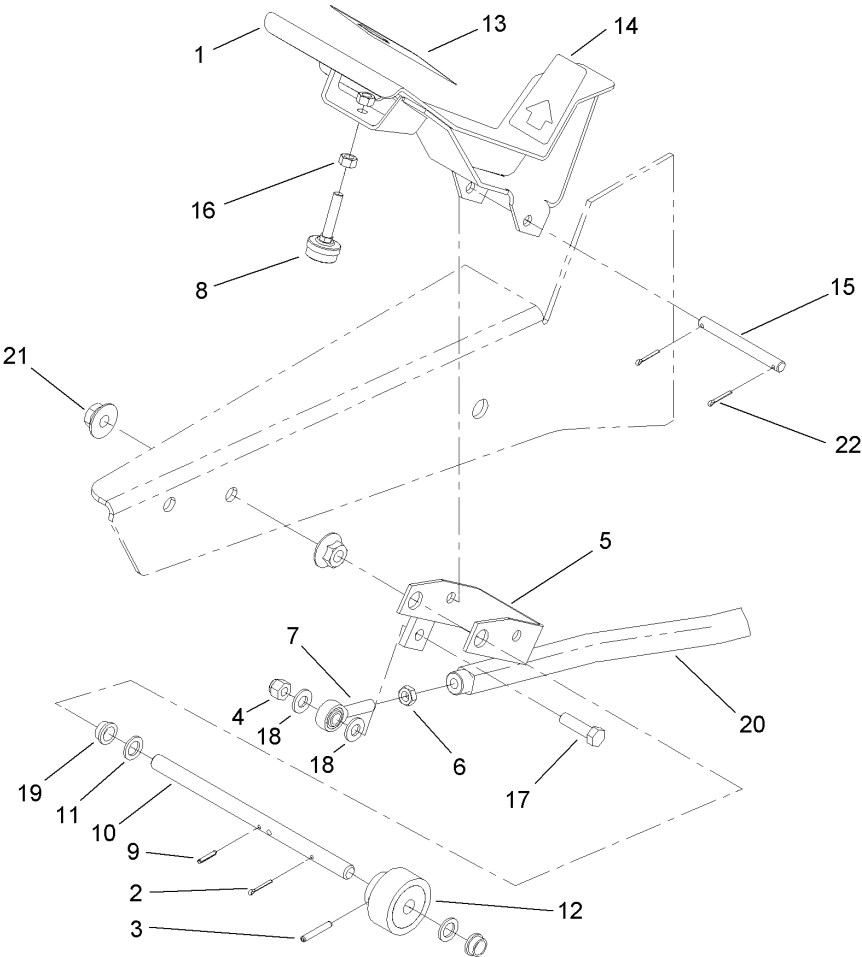


Ref	Part No.	Qty.	Description
45	3296-42	1	Nut-Lock, NI



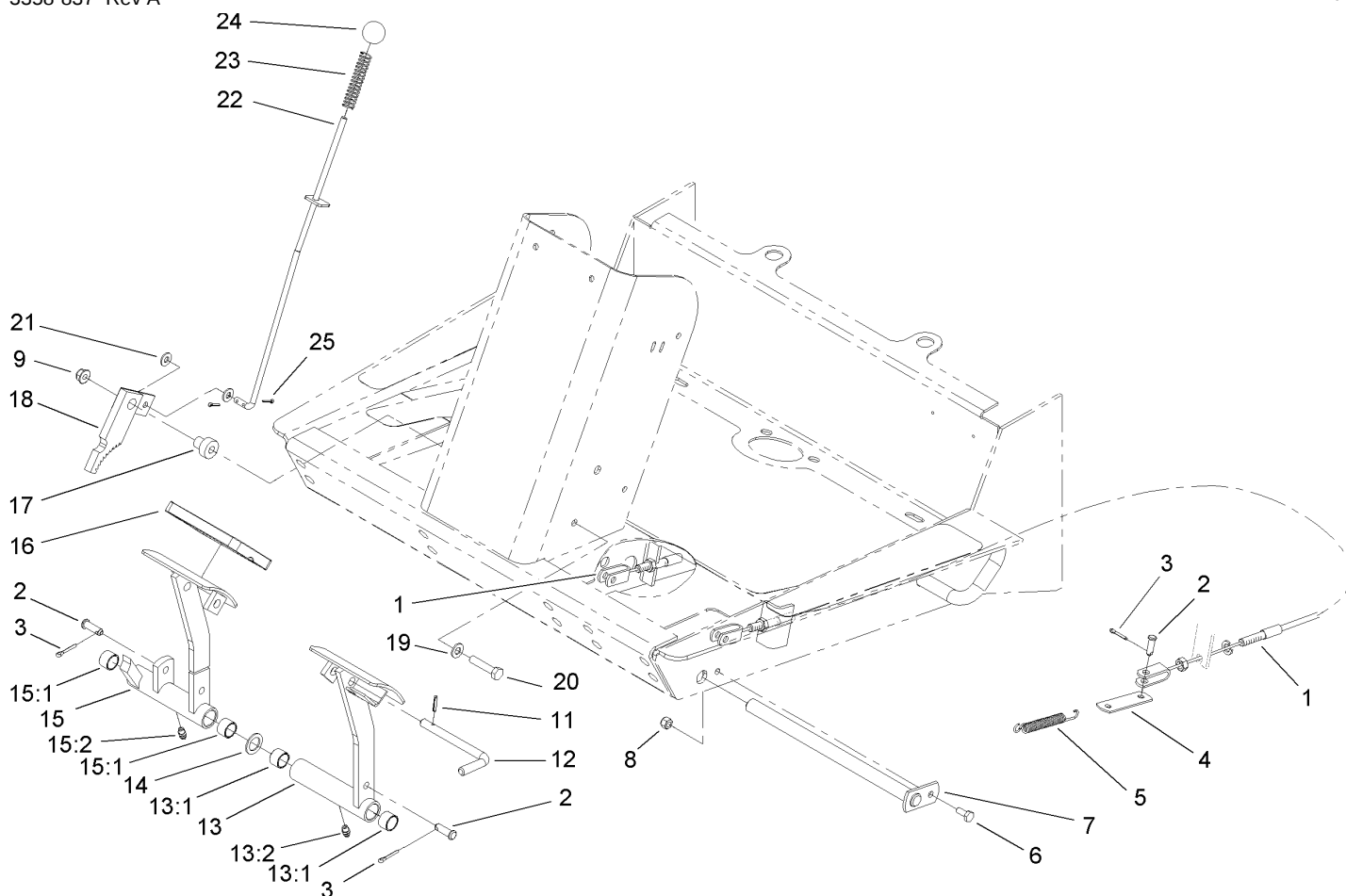
Power Steering Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	98-1459	1	Decal	20	108-2087	1	Hose ASM
2	98-1471	1	Wheel-Steering	22	108-6092	1	Lever-Tilt Steering
2:1	98-1468	1	Cover-Wheel, Steering	23	99-3410	1	Switch
3	21-9260	1	Cover-Dust	24	32149-6	2	Nut-Keps
4	104-8300	2	Nut-Flange, NI	25	322-5	2	Screw-HH
6	105-2409	4	Screw-HSH	26	80-2960	1	Spacer-Tower
7	114-2884	1	Column ASM	27	3234-42	2	Screw-HHF
8	3234-18	1	Screw-HHF	28	21-1880	1	Grip-Handle
9	108-2077	1	Steering Valve ASM	29	105-7181-03	1	Plate-Pivot
9:1	237-21	3	O-Ring	30	31-0390	1	Disc-Friction
9:2	237-22	2	O-Ring	31	82-9010	1	Disc-Friction
10	105-7166	1	Spacer	32	80-2930	1	Washer-Flat
11	3256-53	2	Washer-Flat	33	80-2880	1	Bracket-Tilt
12	3250-35	2	Screw-PPH	34	3218-7	1	Nut-Jam
13	104-8301	3	Nut-Flange, NI	35	105-7188	2	Clamp-Adhesive
14	44-8530	1	Protector-Sleeve	36	3250-32	6	Screw-PPH
15	105-7180	1	Tower Panel ASM	37	3256-27	1	Washer-Flat
15:2	105-7170	6	Nut-Retainer	38	3296-33	1	Nut-Lock, NI
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	108-2086	1	Hose ASM				



Traction Pedal Assembly

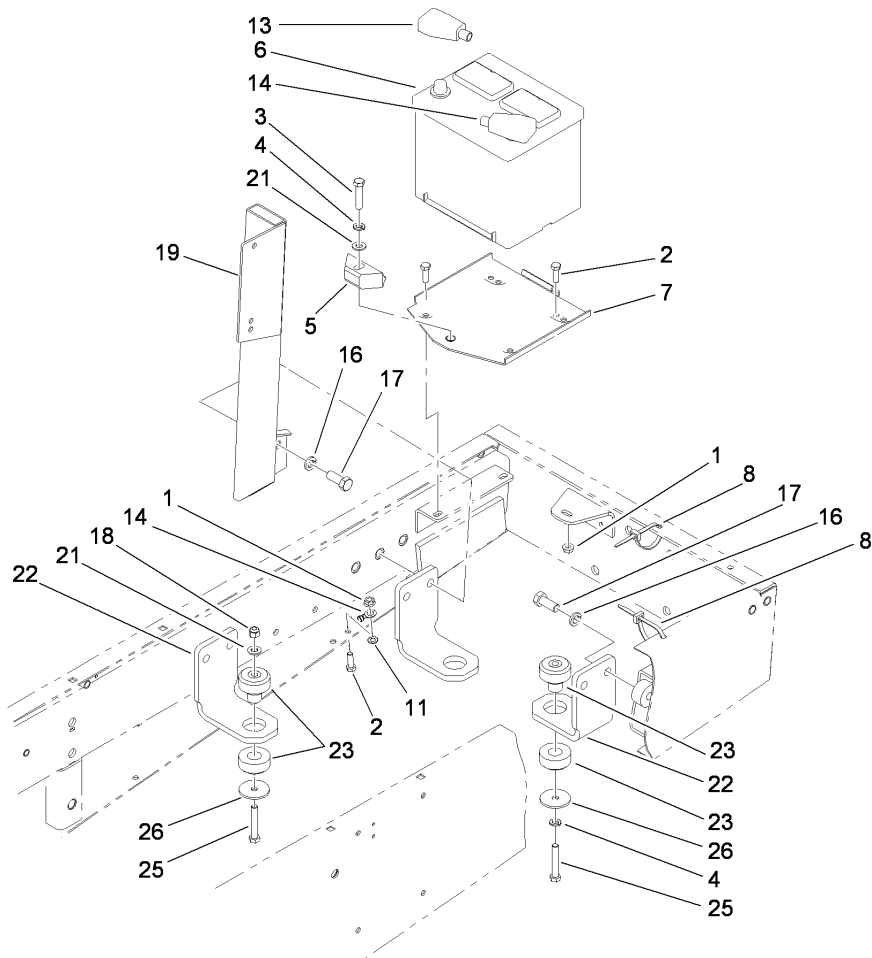
Ref	Part No.	Qty.	Description				
1	105-7150-03	1	Pedal ASM				
2	3272-6	1	Pin-Cotter				
3	32121-6	1	Pin-Roll, Slotted				
4	3296-39	1	Nut-Lock, NI				
5	92-8854-03	1	Bracket-Pivot				
6	3220-3	1	Nut-HJ				
7	2411-36	1	Bearing-End, Rod				
8	32141-36	1	Screw-Adjustment, Level				
9	32121-50	1	Pin-Spring				
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

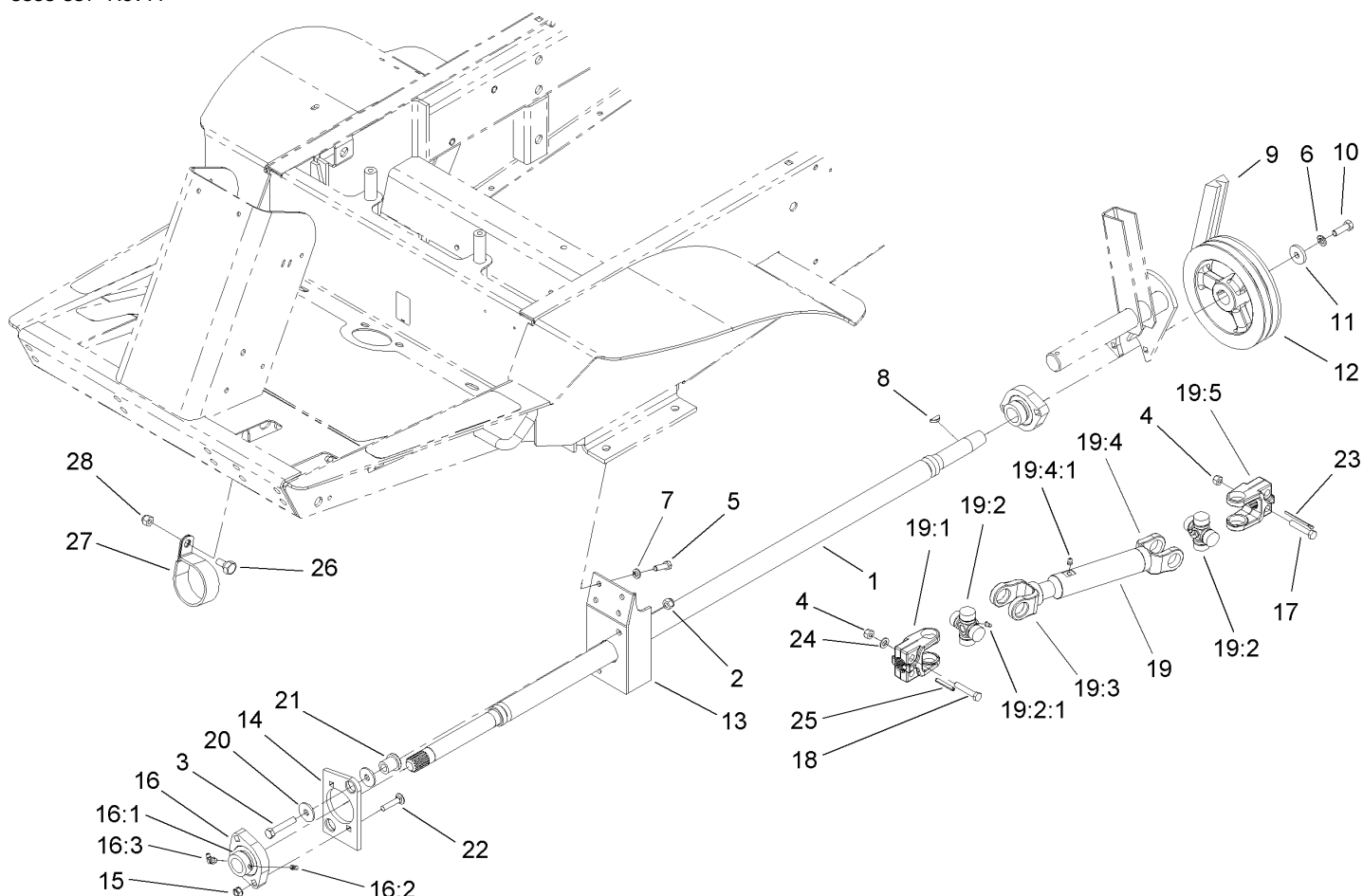
Ref	Part No.	Qty.	Description
1	108-6556	2	Cable-Brake
2	283-58	4	Pin-Clevis
3	3272-10	4	Pin-Cotter
4	63-6750	2	Link-Cable, Brake
5	3-7243	2	Spring-Extension
6	321-4	1	Screw-HH
7	63-6210-03	1	Pin-Brake
8	3296-42	1	Nut-Lock, NI
9	104-8300	1	Nut-Flange, NI
11	32121-50	1	Pin-Spring
12	63-7880	1	Pin-Latch, 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



Battery and Engine Mount Assembly

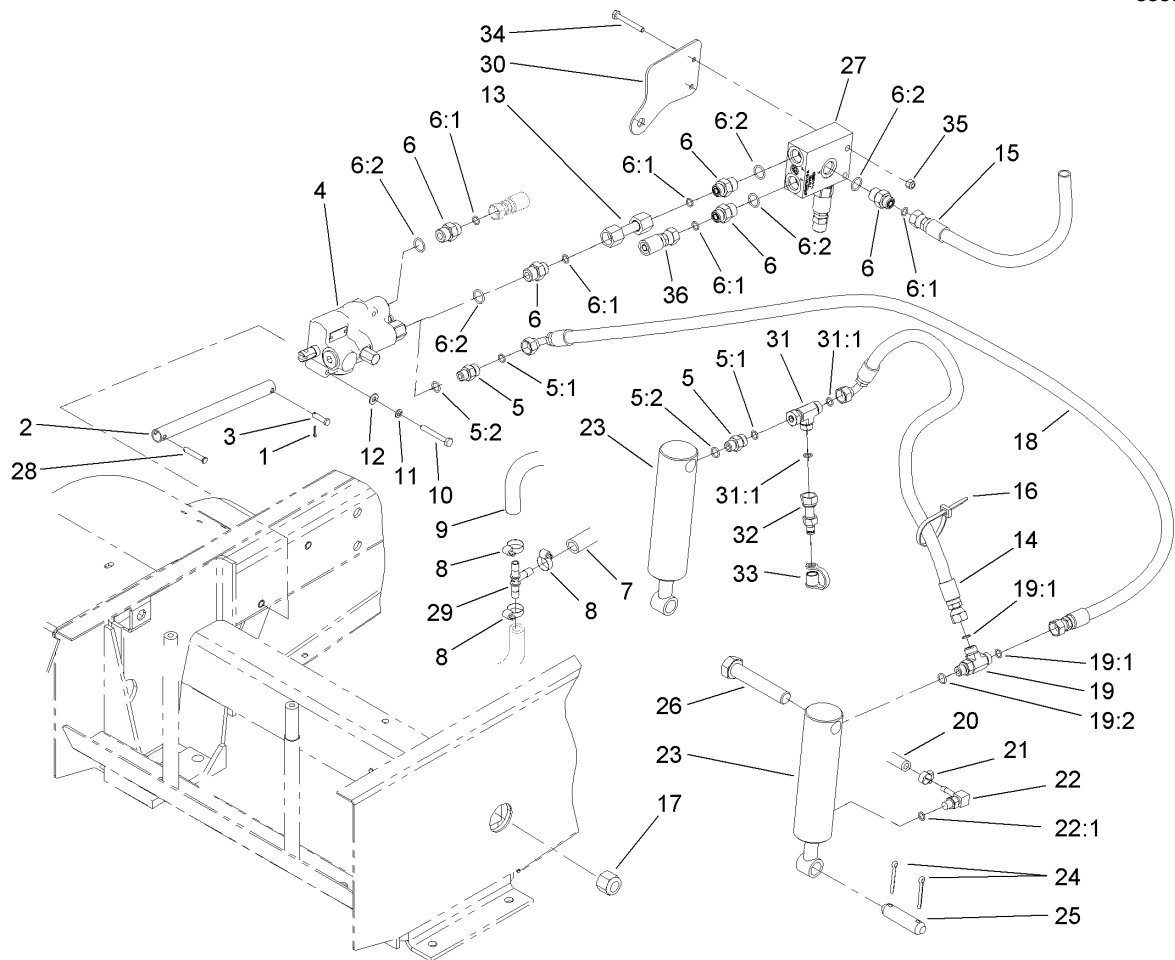
Ref	Part No.	Qty.	Description				
1	32128-20	4	Nut-HF				
2	322-5	4	Screw-HH				
3	323-9	1	Screw-HH				
4	3253-21	2	Washer-Lock				
5	66-2490	1	Retainer-Battery				
6	106-5187	1	Battery				
7	94-7343	1	Battery Base ASM				
8	3290-378	2	Tie-Cable				
11	3255-8	1	Washer-Lock				
13	104-0086	1	Cable-Battery, Positive				
14	105-0040	1	Cable-Battery, Negative				
16	3253-7	8	Washer-Lock				
17	3213-2	8	Screw-HH				
18	3296-39	3	Nut-Lock, NI				
19	105-2513-03	1	Air Cleaner Mount ASM				
21	3256-24	4	Washer-Flat				
22	114-2867-03	4	Bracket-Mount, Engine				
23	115-0600	4	Mount-Engine				
25	323-13	4	Screw-HH				
26	63-7400	4	Washer-Rebound				



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

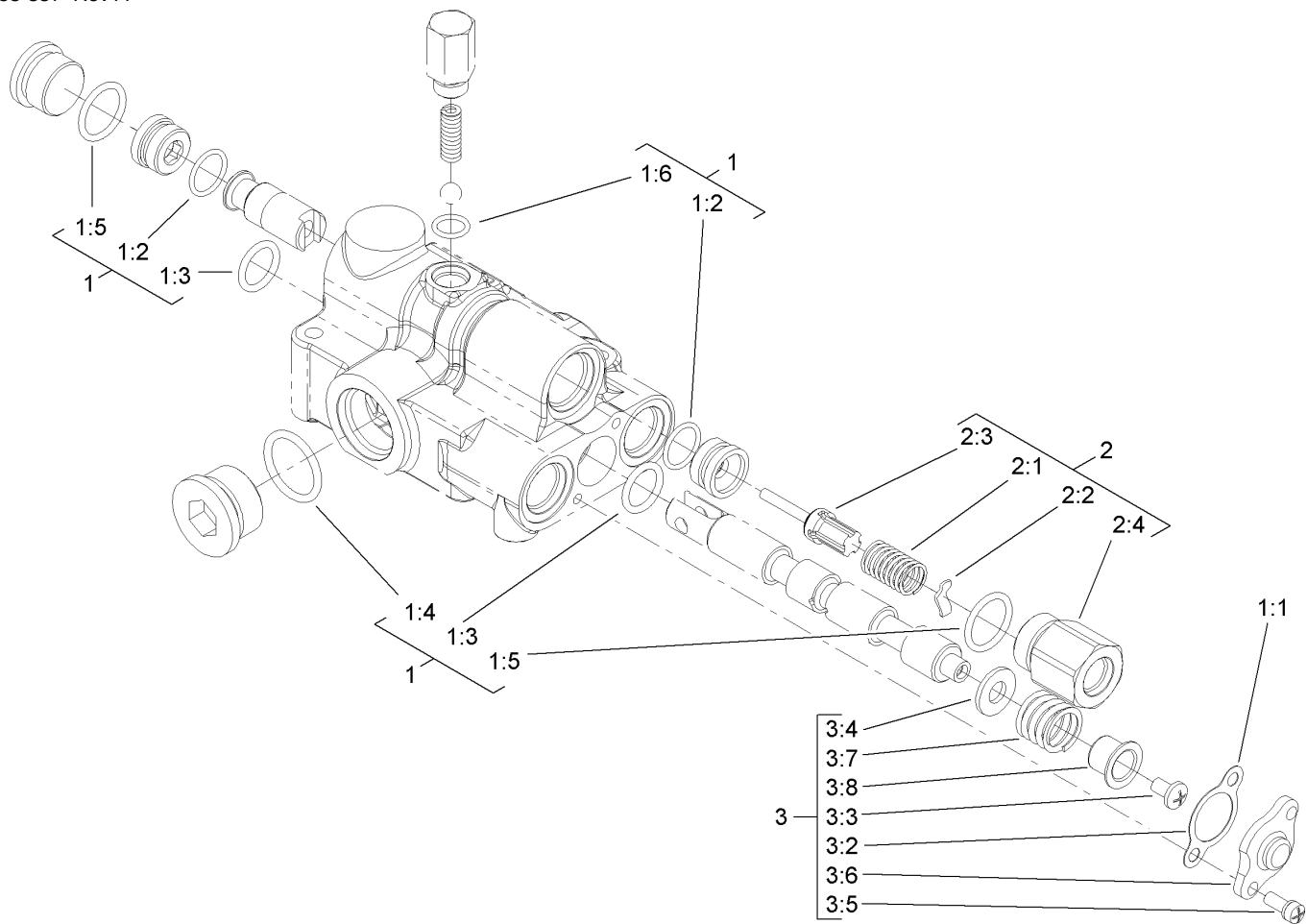
Ref	Part No.	Qty.	Description
19:2:1	62-3820	1	Fitting-Grease
19:3	108-6550	1	Shaft-Yoke, Slip
19:4	108-6551	1	Tube-Yoke, Slip
19:4:1	302-58	1	Fitting-Straight
19:5	54-9090	1	Yoke-End
20	63-8410	4	Washer
21	63-9750	2	Mount
22	3230-4	2	Screw-CARR
23	3272-15	1	Pin-Cotter
24	3256-23	1	Washer-Flat
25	32121-34	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

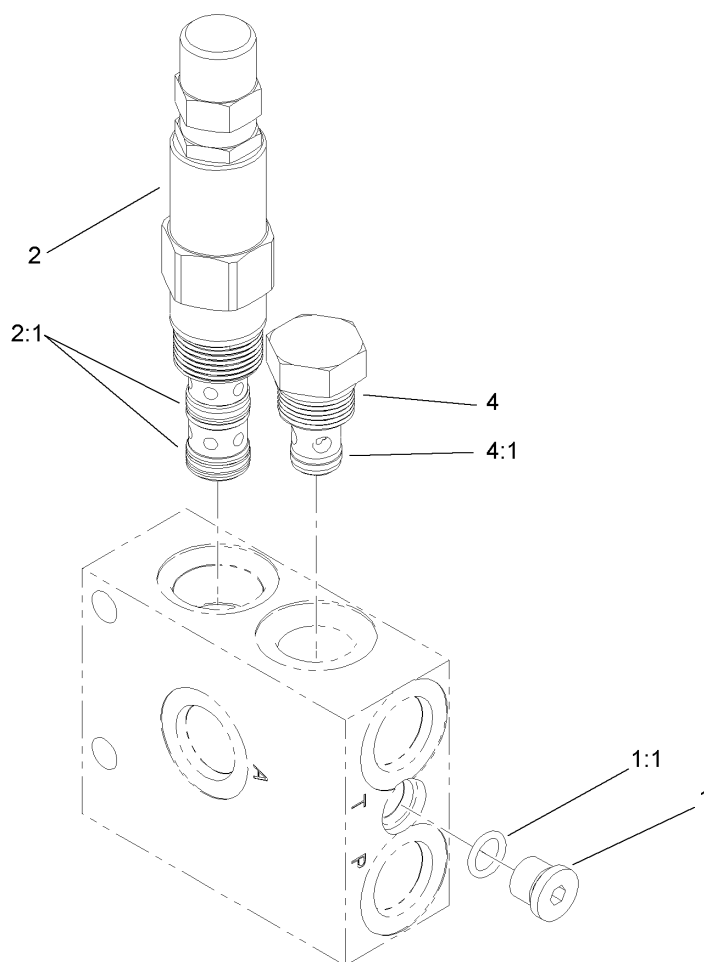
Ref	Part No.	Qty.	Description
1	3272-5	2	Pin-Cotter
2	108-2021-03	1	Tube-Link
3	283-26	1	Pin
4	114-2877	1	Valve ASM
5	340-2	2	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-3	5	Adapter
6:1	237-22	1	O-Ring
6:2	237-79	1	O-Ring
7	100-5641	1	Hose ASM
8	2412-36	3	Clamp-Hose
9	100-5649	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



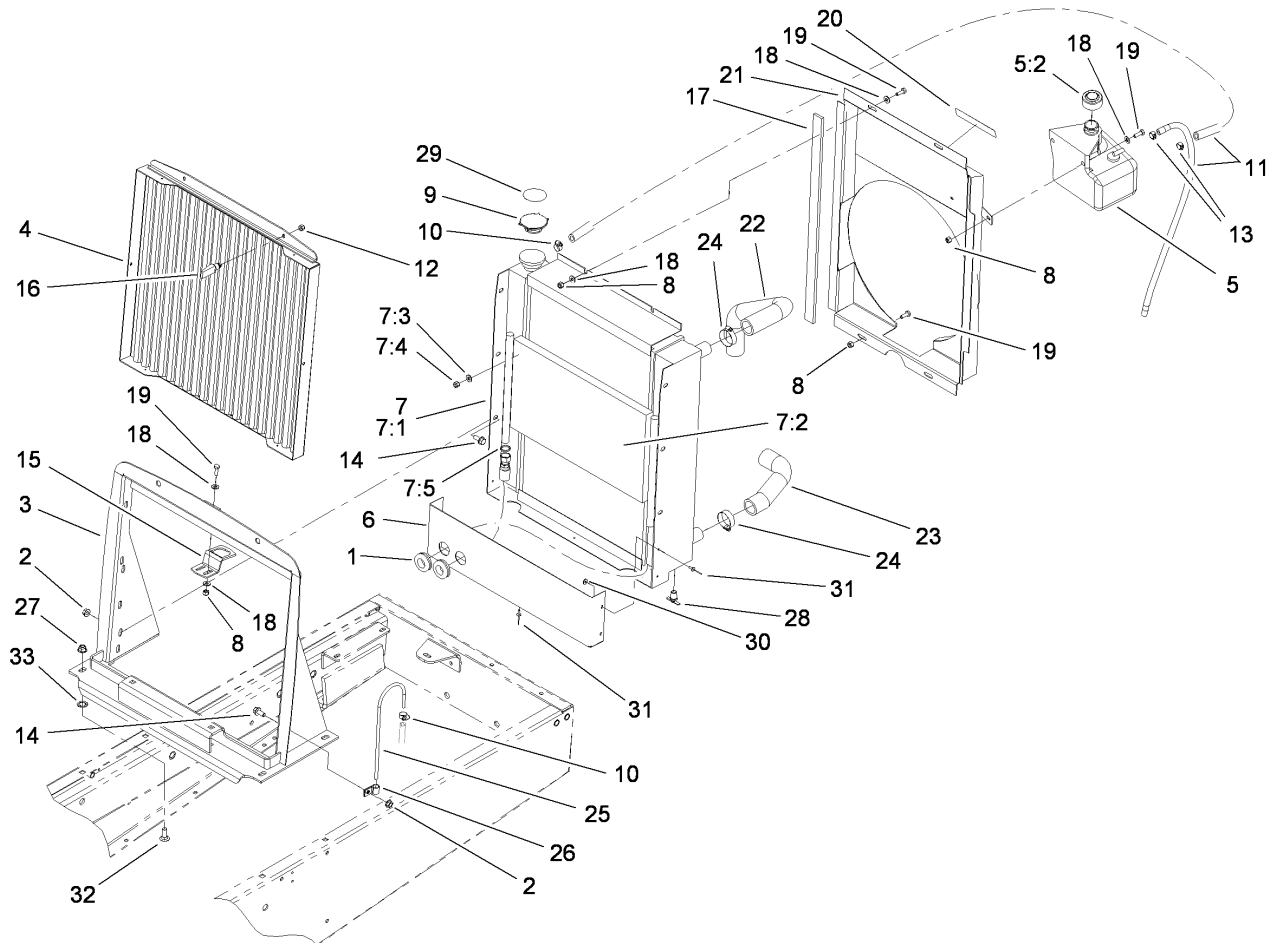
Hydraulic Valve Assembly No. 114-2877

Ref	Part No.	Qty.	Description				
1	110-6442	1	Seal Kit				
21:1		1	Gasket				
21:2		2	O-Ring				
21:3		2	O-Ring				
21:4		1	O-Ring				
21:5		2	O-Ring				
21:6		1	O-Ring				
2	110-6441	1	Pilot Check Kit				
22:1		1	Spring				
22:2		1	Poppet-Stop				
22:3		1	Poppet				
22:4		1	Port-Plug, Adapter				
3	114-2889	1	Spring Center Kit				
33:2		1	Gasket				
33:3		1	Machine Screw				
33:4		1	Washer				
33:5		2	Screw W/Lockwasher				
33:6		1	End Cap				
33:7		1	Spring				
33:8		1	Spacer				



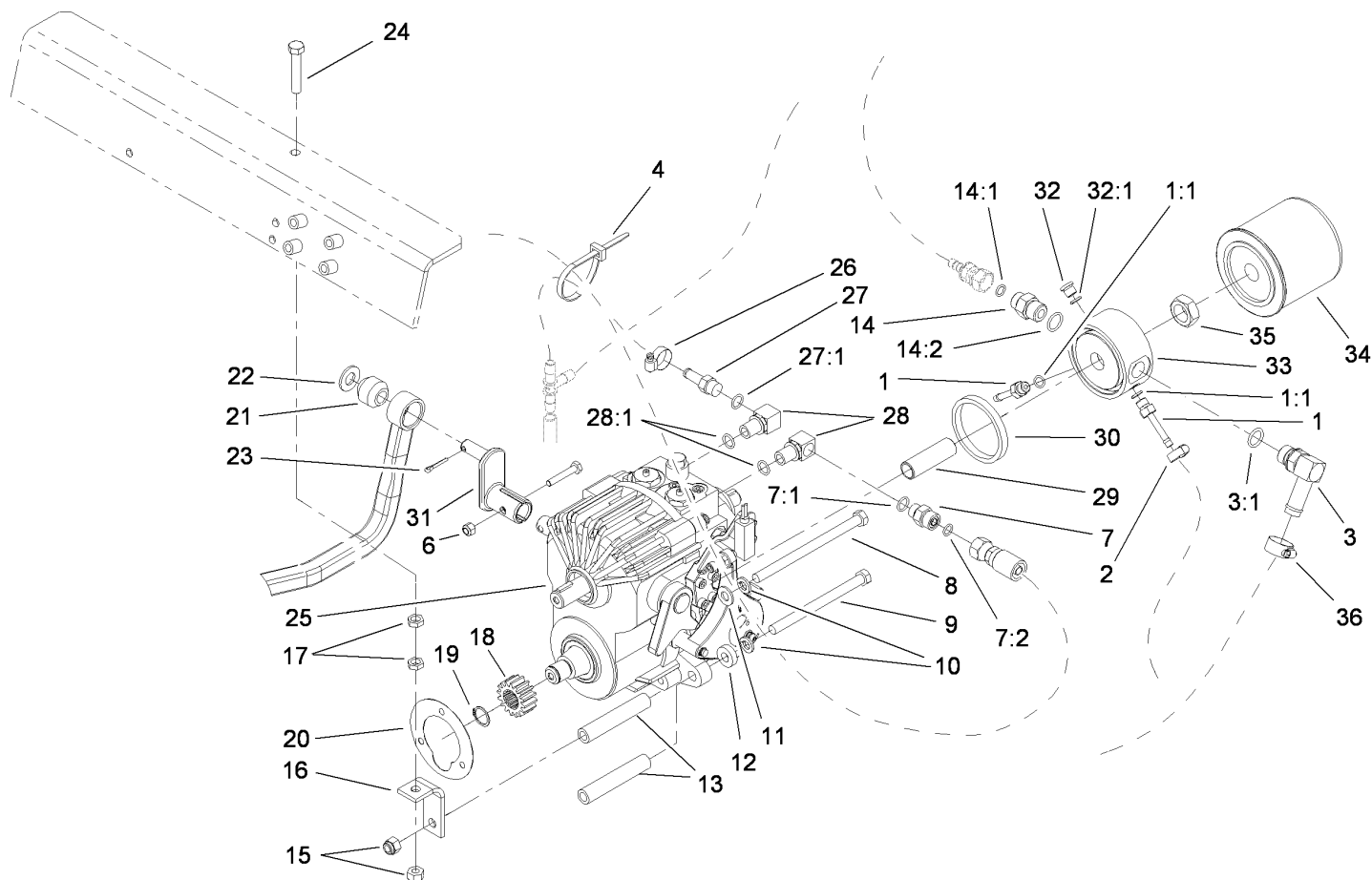
Hydraulic Manifold Assembly No. 114-2863

Ref	Part No.	Qty.	Description
1	353-990	1	Plug
1:1	237-78	1	O-Ring
2	114-2888	1	Valve-Logic, Adjustable
2:1	107-7813	1	Seal Kit
4	114-2873	1	Check Valve
4:1	105-9156	1	Seal Kit



Radiator Assembly

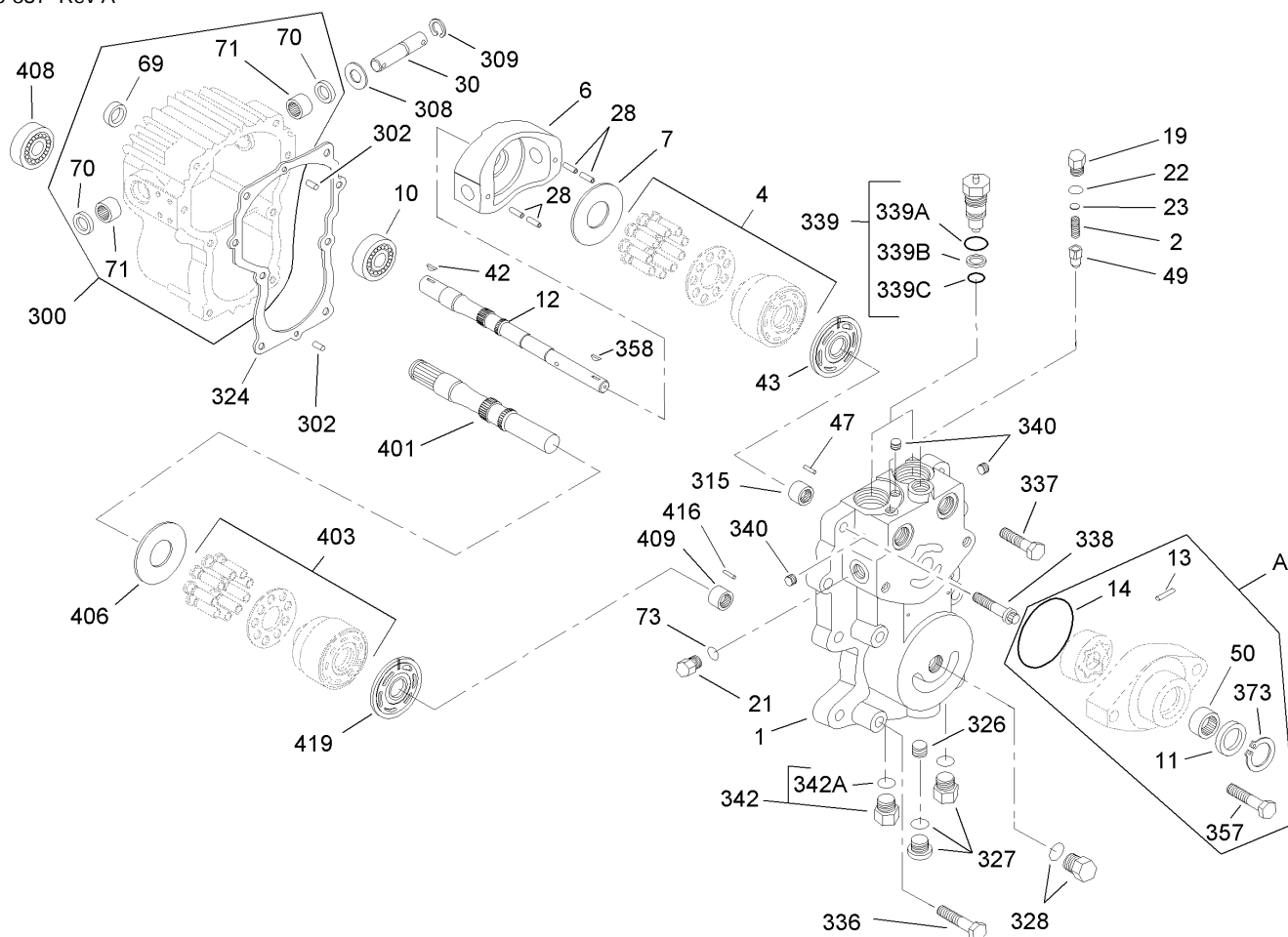
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	240-4	2	Grommet-Rubber	19	321-4	8	Screw-HH
2	32128-20	6	Nut-HF	20	93-7272	1	Decal-Warning
3	110-9668-03	1	Radiator Support ASM	21	108-9678-03	1	Fan Shroud ASM
4	108-2062-03	1	Screen ASM	22	104-3443	1	Hose-Radiator, Upper
5	93-5975	1	Coolant Reservoir ASM	23	104-3442	1	Hose-Radiator, Lower
5:2	93-5960	1	Cap-Reservoir	24	2412-34	4	Clamp-Hose
6	110-9663-03	1	Shield-Radiator, Bottom	25	66-3180	1	Tube-Vent
7		1	Radiator / Oil Cooler ASM	26	2412-103	2	Clamp
7:1	105-4289	1	Radiator	27	104-8301	4	Nut-Flange, NI
7:2	105-4290	1	Cooler-Oil	28	304-46	1	Draincock
7:3	3253-4	4	Washer-Lock	29	106-5976	1	Decal-Warning
7:4	3217-6	4	Nut-Hex	30	3269-10	2	Washer-Back
7:5	237-22	2	O-Ring	31	3269-13	5	Rivet-Pop
8	3296-42	8	Nut-Lock, NI	32	3231-2	4	Screw-CARR
9	66-3240	1	Cap-Radiator	33	32151-72	4	Ring-Retaining
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				



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

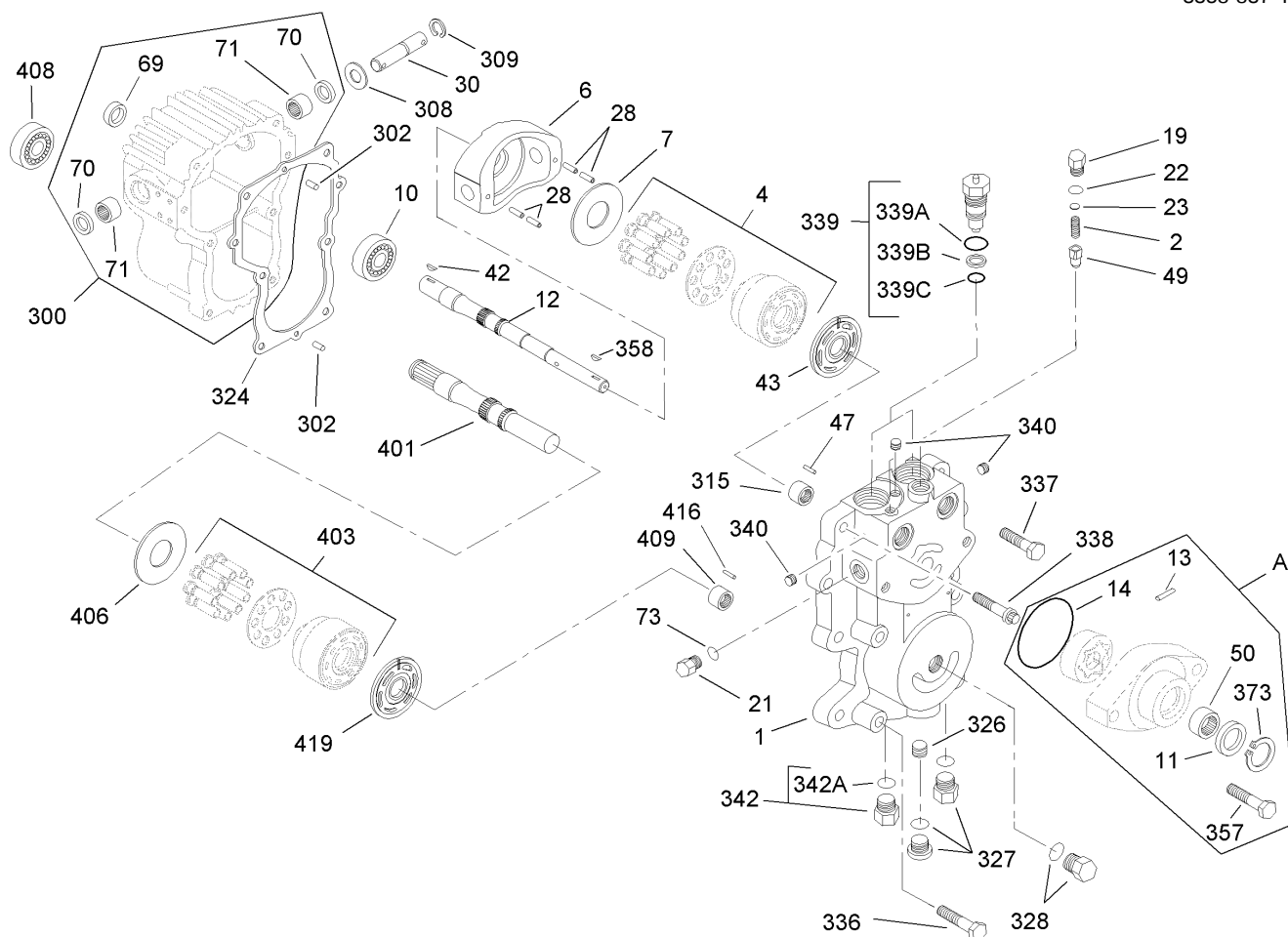
Ref	Part No.	Qty.	Description
20	27-3690	1	Gasket-Transmission
21	23-2270	1	Bushing-Rubber
22	3256-26	1	Washer-Flat
23	3272-10	1	Pin-Cotter
24	67-1900	1	Screw-HH
25	108-1355	1	Transmission ASM
26	2412-36	1	Clamp-Hose
27	353-979	1	Fitting-Straight
27:1	237-42	1	O-Ring
28	66-3110	2	Fitting-HYD, 90 DEG
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

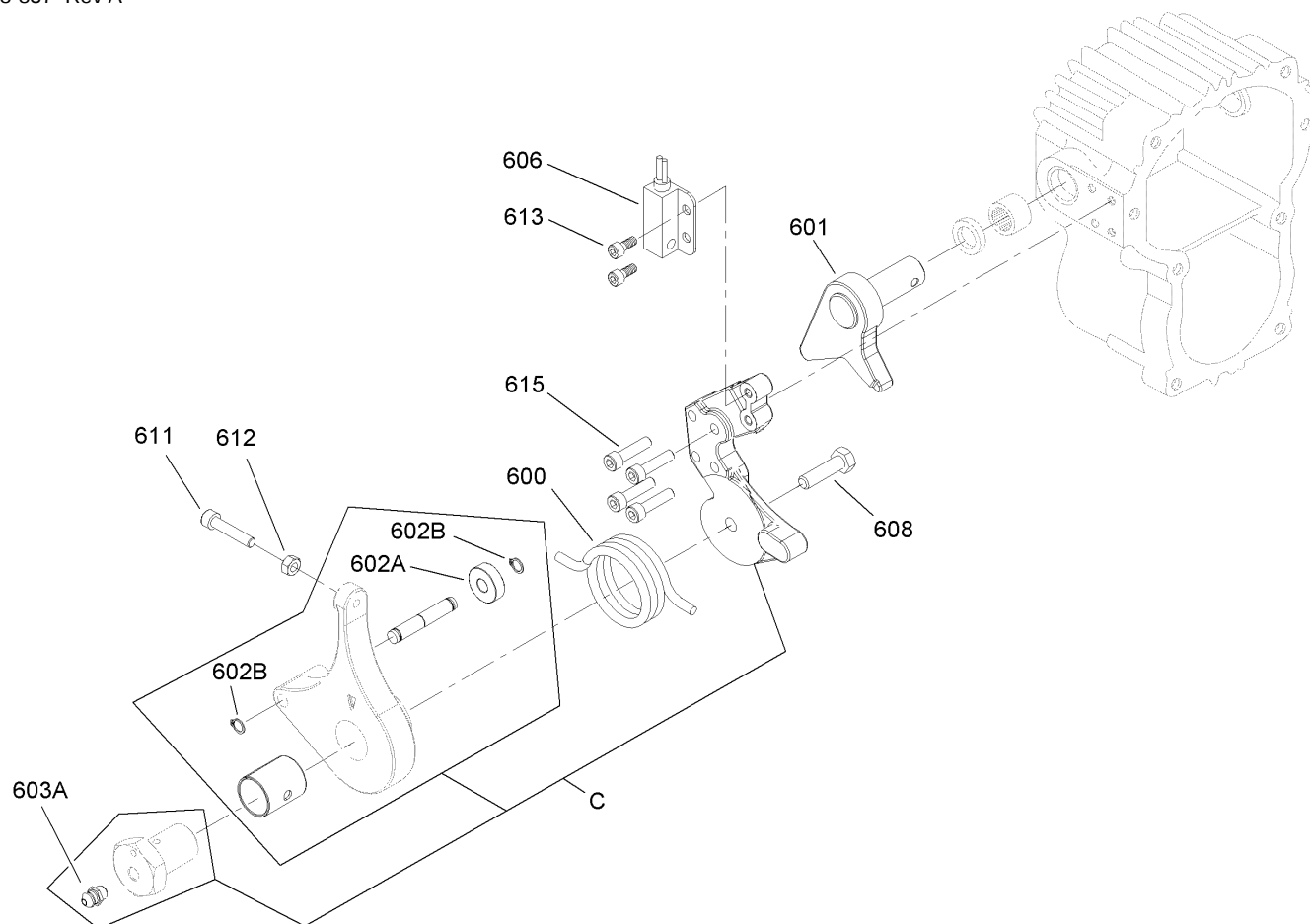
Ref	Part No.	Qty.	Description
A	38-2670	1	Charge Pump Kit
1	92-5716	1	Section-Center
2	46-7310	1	Spring
4	48-1800	1	Cylinder Block Kit
6	25-2450	1	Plate-Swash, Variable
7	25-2380	1	Plate-Thrust
10	251-8	1	Bearing-Ball
11	94-2975	1	Seal-Shaft
12	28-3640	1	Shaft-Pump
13	38-2680	1	Pin
14	28-3520	1	O-Ring
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



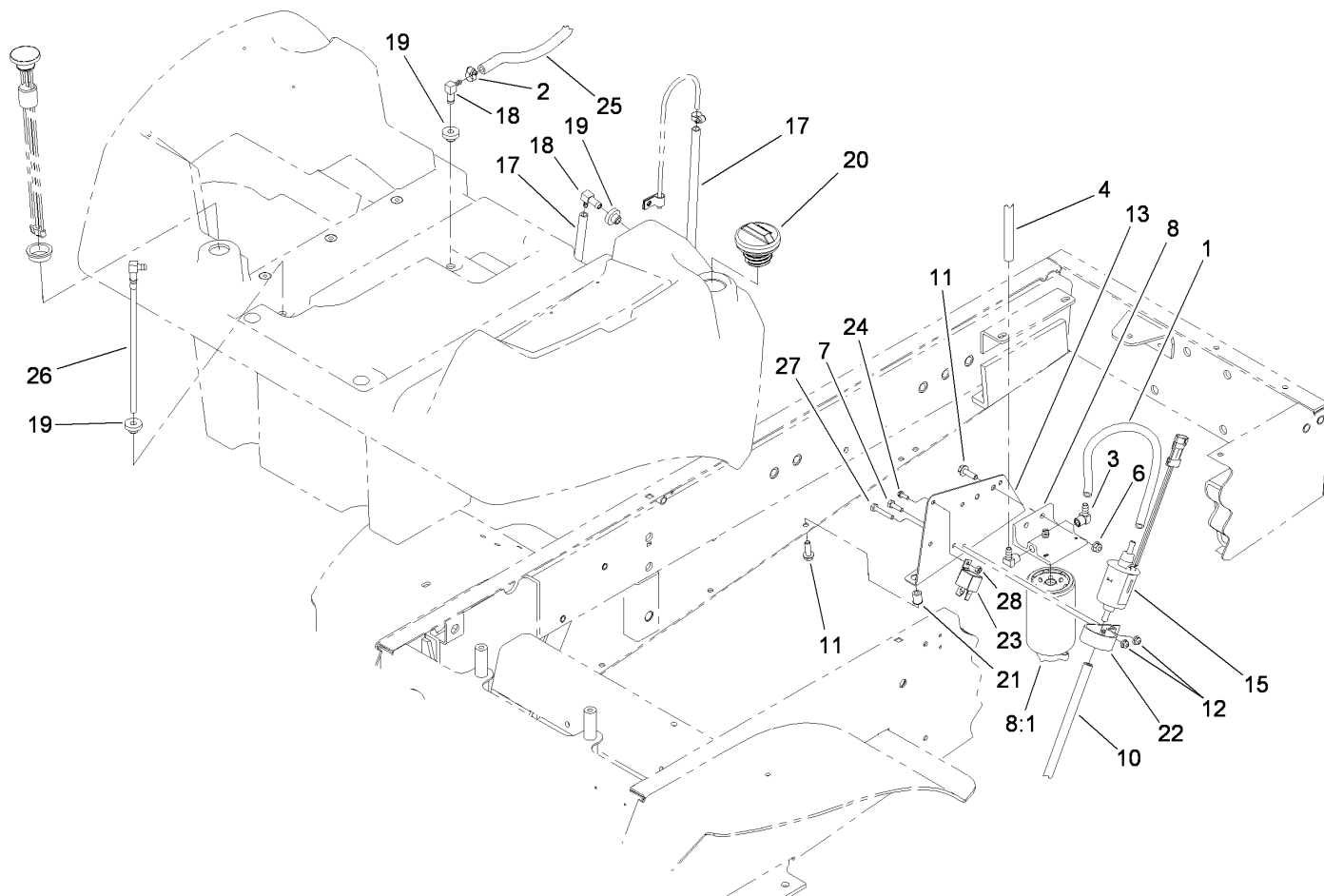
Center Section Assembly
Transmission Assembly No. 108-1355 (continued)

Ref	Part No.	Qty.	Description
409	25-3300	1	Bearing-Needle
416	25-2430	1	Pin-Dowel
419	28-3380	1	Plate-Valve, Motor
339A	28-3570	2	O-Ring
339B	28-3580	2	Ring-Back Up
339C	28-3590	2	O-Ring
342A	75-0240	2	O-Ring



Neutral Return Arm Assembly Transmission Assembly No. 108-1355

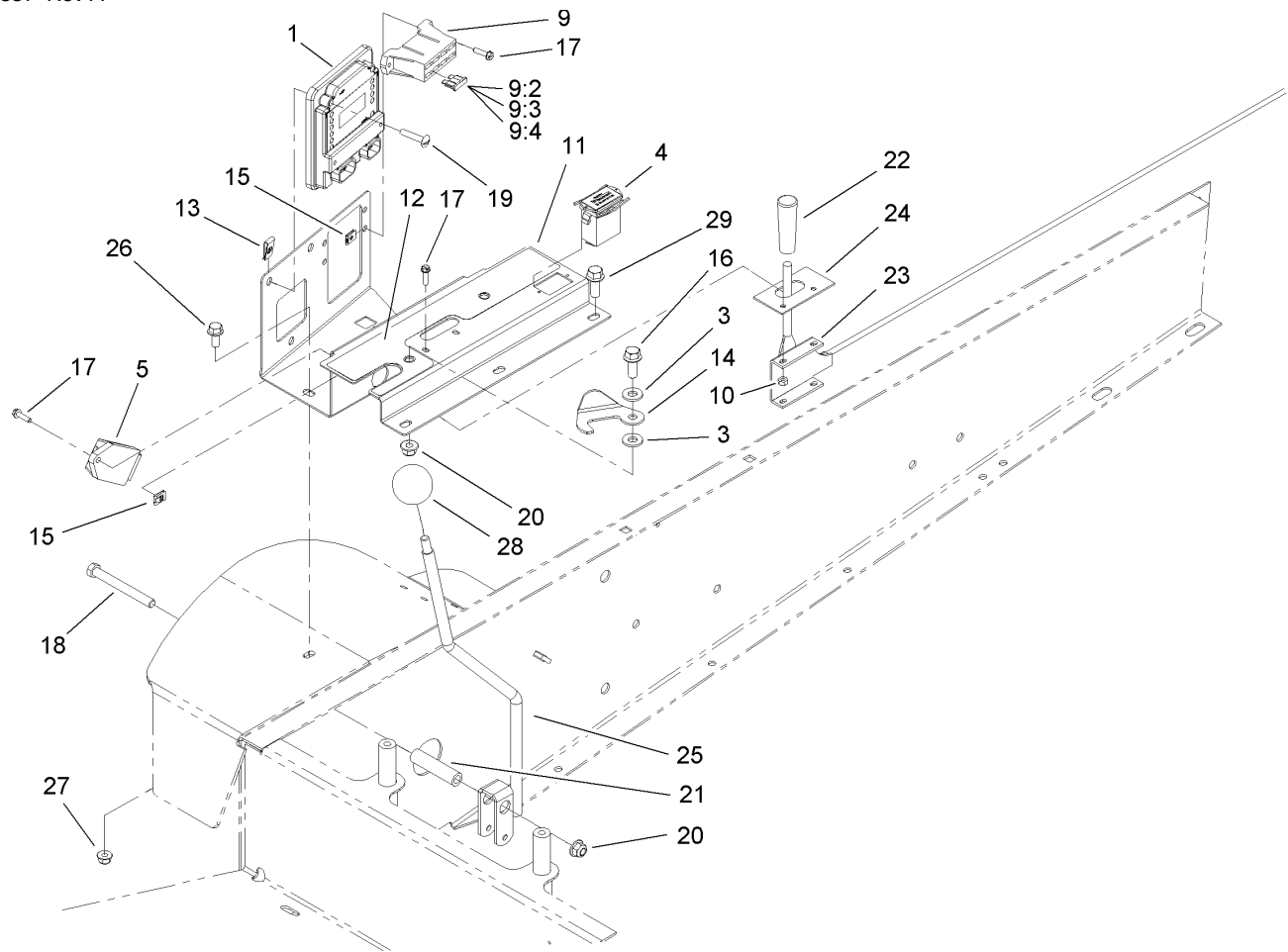
Ref	Part No.	Qty.	Description				
C	110-5685	1	Neutral Return ASM				
600	110-3053	1	Spring-Return, Neutral				
601	110-3054	1	Cam-Trunnion				
606	100-1270	1	Switch-Proximity				
608	33114-030	1	Screw-HH				
611	110-3060	1	Screw-HSH				
612	33013-00	1	Nut-Hex				
613	110-3061	2	Screw-HSH				
615	48-7850	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	2	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	4	Screw-HHF
12	104-7201	2	Nut-HF
13	114-2854-03	1	Bracket-Support
15	110-8806	1	Pump-Fuel
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
26	110-9689	1	Pipe-Stand
27	321-9	1	Screw-HH

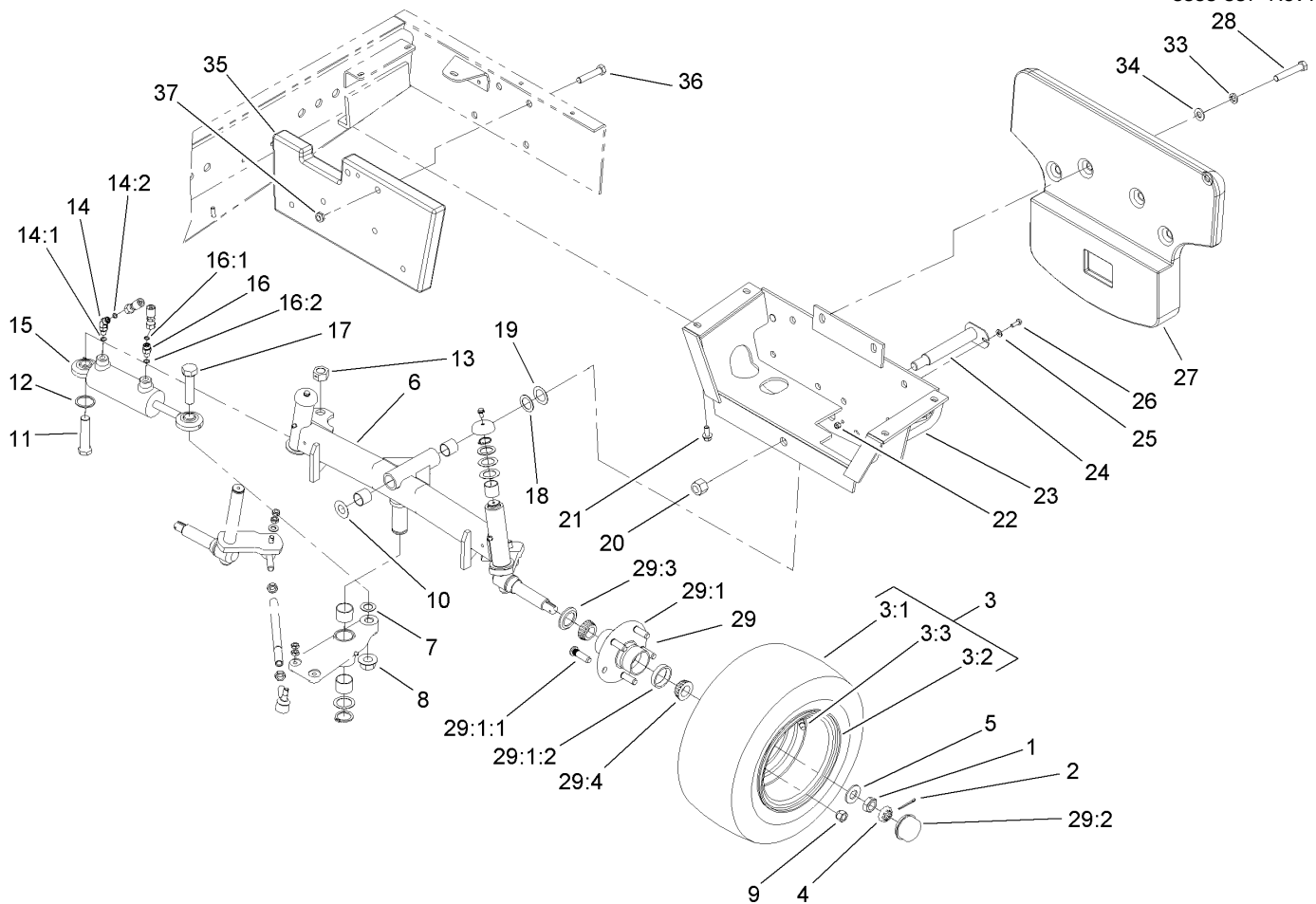
Ref	Part No.	Qty.	Description
28	3296-2	1	Nut-Lock



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

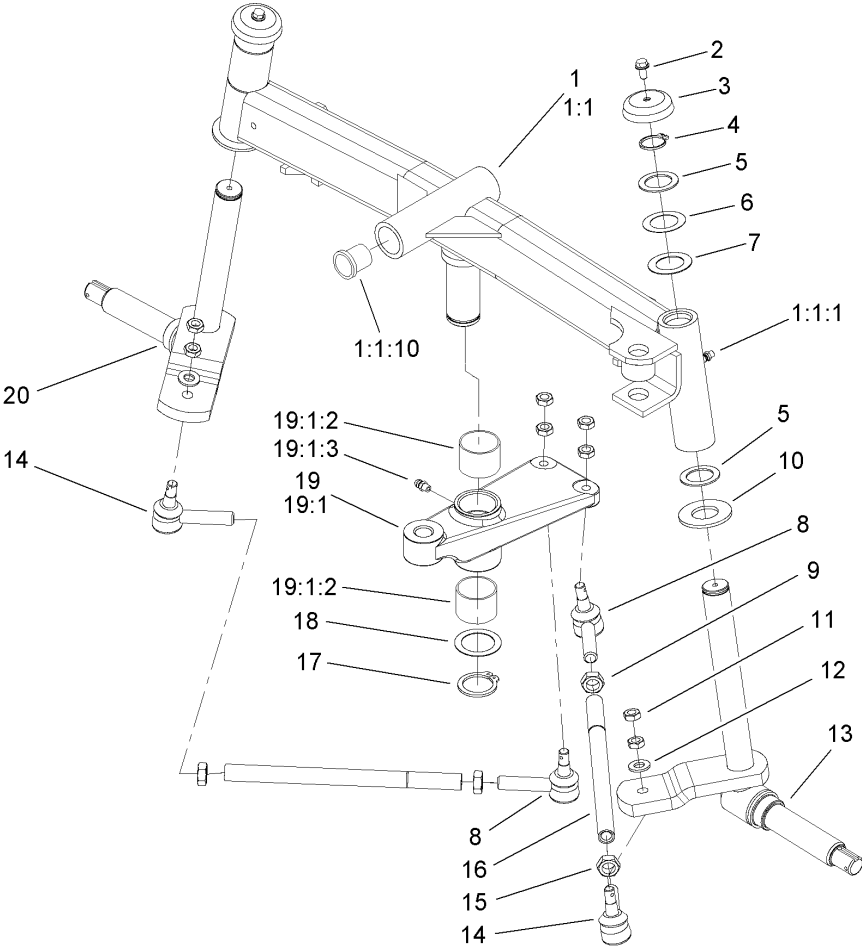
Ref	Part No.	Qty.	Description
26	3234-5	1	Screw-HHF
27	104-8300	1	Nut-Flange, NI
28	233-21	1	Knob
29	3234-14	3	Screw-HHF



Rear Axle and Tire Assembly

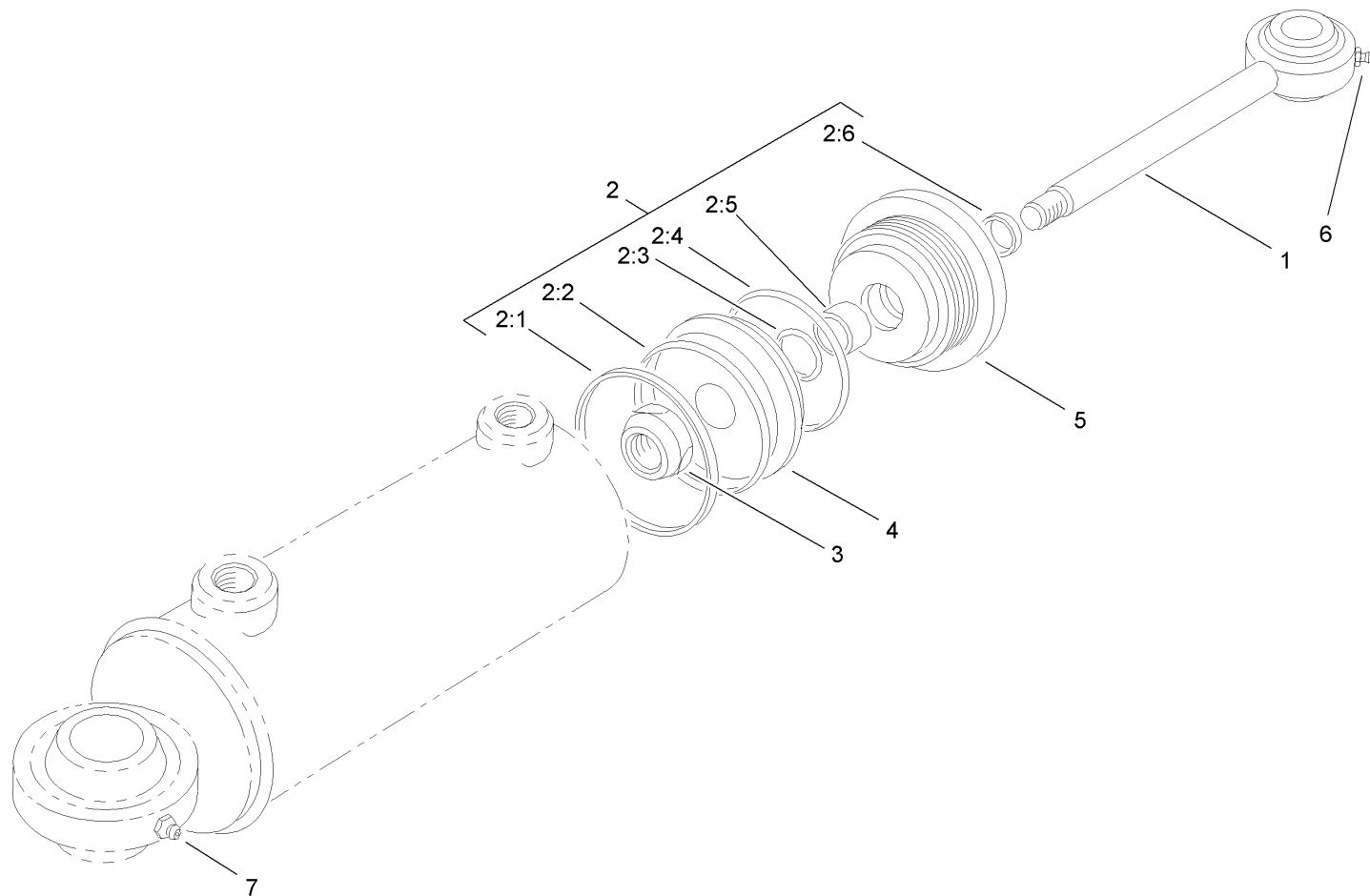
Ref	Part No.	Qty.	Description
1	3220-7	2	Nut-Jam
2	3272-13	2	Pin-Cotter
23		2	Wheel And Tire ASM
3:1	231-105	1	Tire-Ribbed
3:2	107-9059	1	Wheel
3:3	232-35	1	Valve Stem And Cap ASM
4	93-0307	2	Nut-Lock, Retainer
5	93-0309	2	Washer-Tab
26		1	Rear Axle ASM
7	67-9410	1	Washer
8	32128-45	1	Locknut-Flange
9	242-50	10	Nut-Lug
10	71-4540	1	Washer-Thrust
11	67-7300	1	Screw-HH
12	67-7250	1	Spacer-Ring
13	32153-6	1	Nut-Lock
14	340-103	1	Fitting-HYD, 45 DEG
14:1	237-78	1	O-Ring
14:2	237-21	1	O-Ring
15	76-2070	1	Cylinder-Steering
16	340-92	1	Fitting-HYD, Straight
16:1	237-78	1	O-Ring
16:2	237-21	1	O-Ring
17	328-25	1	Screw-HH

Ref	Part No.	Qty.	Description
18	10-8110	1	Washer-Thrust
19	56-2460	2	Washer-Flat
20	3296-51	1	Nut-Lock, NI
21	3234-25	4	Screw-HHF
22	3296-42	1	Nut-Lock, NI
23	63-6430-03	1	Frame-Rear
24	63-6770-03	1	Pin-Masked
25	3256-22	1	Washer-Flat
26	321-4	1	Screw-HH
27	110-9666-01	1	Weight-Rear
28	325-14	4	Screw-HH
29		2	Hub ASM
29:1	21-2820	1	Hub
29:1:1	10-6830	5	Stud-Type, Drive
29:1:2	254-72	2	Bearing-Cup, Tapered
29:2	241-119	1	Cap-Dust
29:3	253-129	1	Seal
29:4	254-94	2	Bearing-Cone, Tapered
33	3253-7	4	Washer-Lock
34	3256-26	4	Washer-Flat
35	110-1995-03	1	Weight-Rear, Inside
36	325-10	2	Screw-HH
37	3296-45	2	Nut-Lock, NI



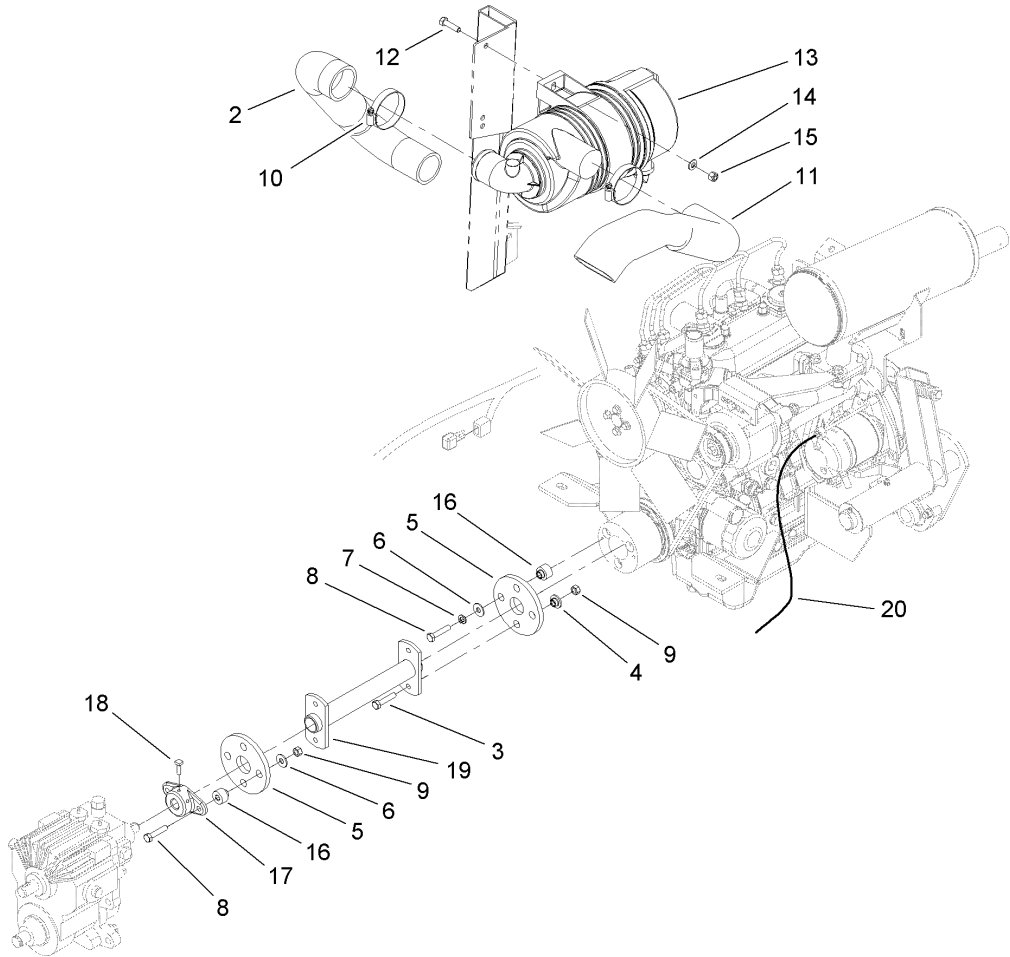
Rear Axle Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	76-3000-03	1	Rear Axle ASM	19:1:3	302-5	1	Fitting-Grease
1:1		1	Axle-Rear	20	107-2942-03	1	LH Spindle ASM
1:1:1	302-5	3	Fitting-Grease				
1:1:10	67-1750	6	Bushing				
2	3234-13	2	Screw-HHF				
3	66-2990-03	2	Cap-Spindle				
4	32151-36	2	Ring-Retaining				
5	10-8110	4	Washer-Thrust				
6	56-2460	2	Washer-Flat				
7	5-1226	2	Washer				
8	110-9686-03	2	LH Ball Joint ASM				
9	3220-12	2	Nut-HJ (LH Thread)				
10	256-121	2	Washer-Thrust				
11	3220-3	8	Nut-HJ				
12	3256-24	2	Washer-Flat				
13	107-2943-03	1	RH Spindle ASM				
14	110-9685-03	2	RH Ball Joint ASM				
15	3220-5	2	Nut-Jam				
16	63-6880	2	Tie Rod-Steering				
17	32151-77	1	Ring-Retaining, EXT				
18	76-2980	1	Washer-Thrust				
19	100-6598-03	1	Steering Pivot ASM				
19:1		1	Pivot-Steering				
19:1:2	76-2970	2	Bushing-Straight				



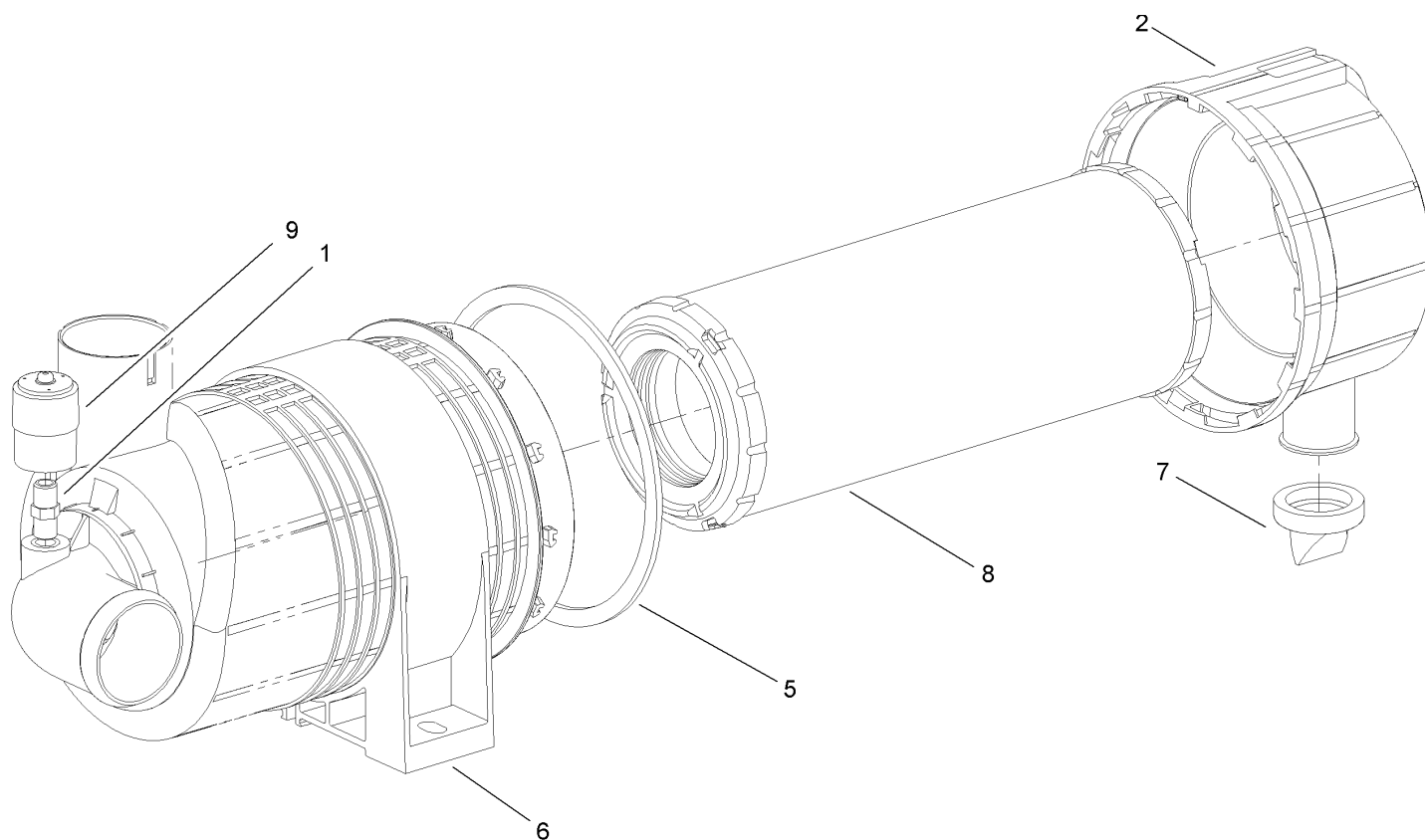
Steering Cylinder Assembly No. 76-2070

Ref	Part No.	Qty.	Description				
1	76-2090	1	Rod-Piston				
2		1	Seal Kit				
2:1		1	Seal				
2:2		1	O-Ring				
2:3		1	O-Ring				
2:4		1	O-Ring				
2:5		1	U-Cup				
2:6		1	Wiper				
3	302-40	1	Nut-Lock				
4		1	Piston				
5		1	Gland				
6		1	Fitting-Grease				
7		1	Fitting-Grease				



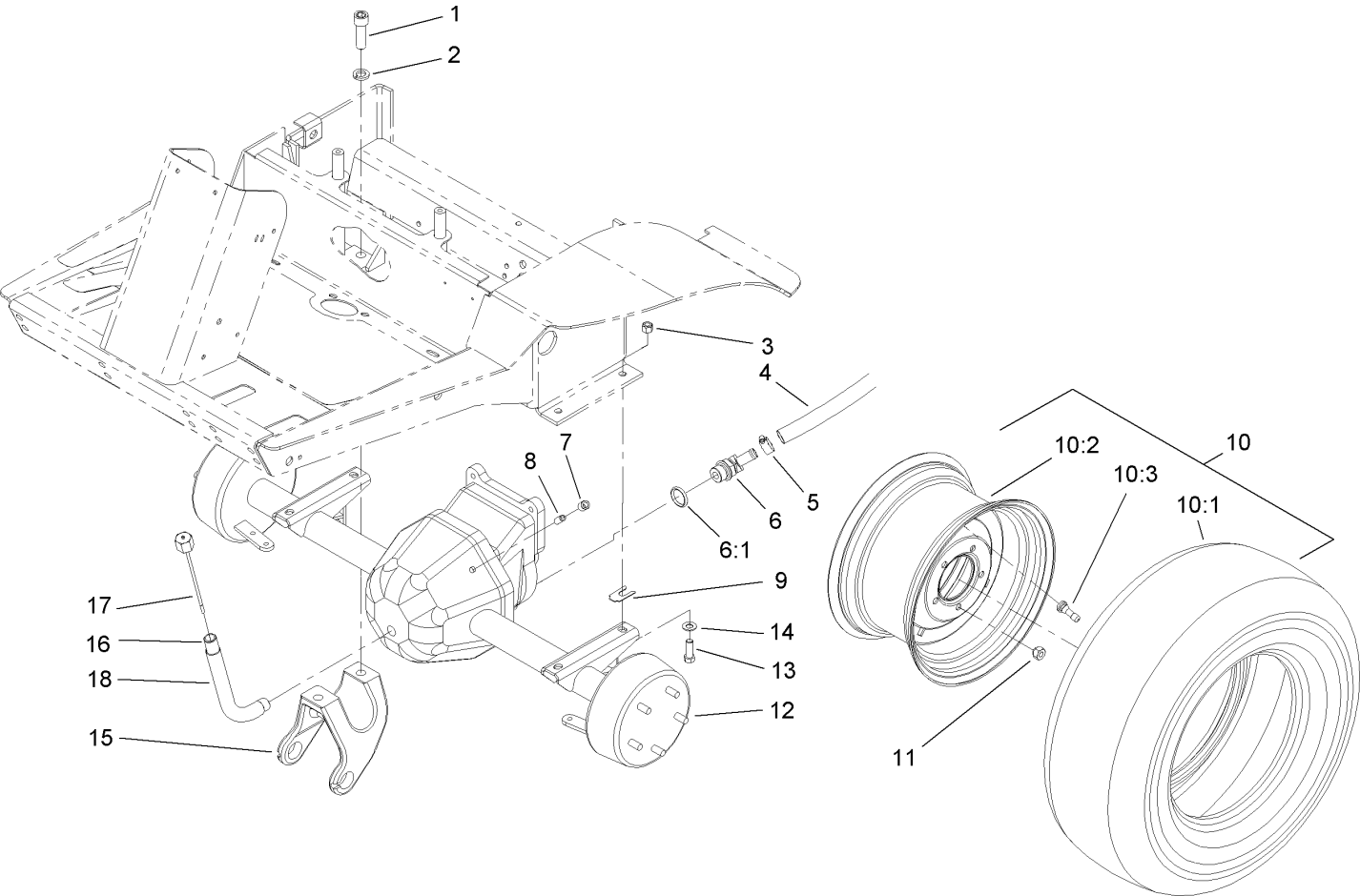
Air Cleaner and Drive Coupling Assembly

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				



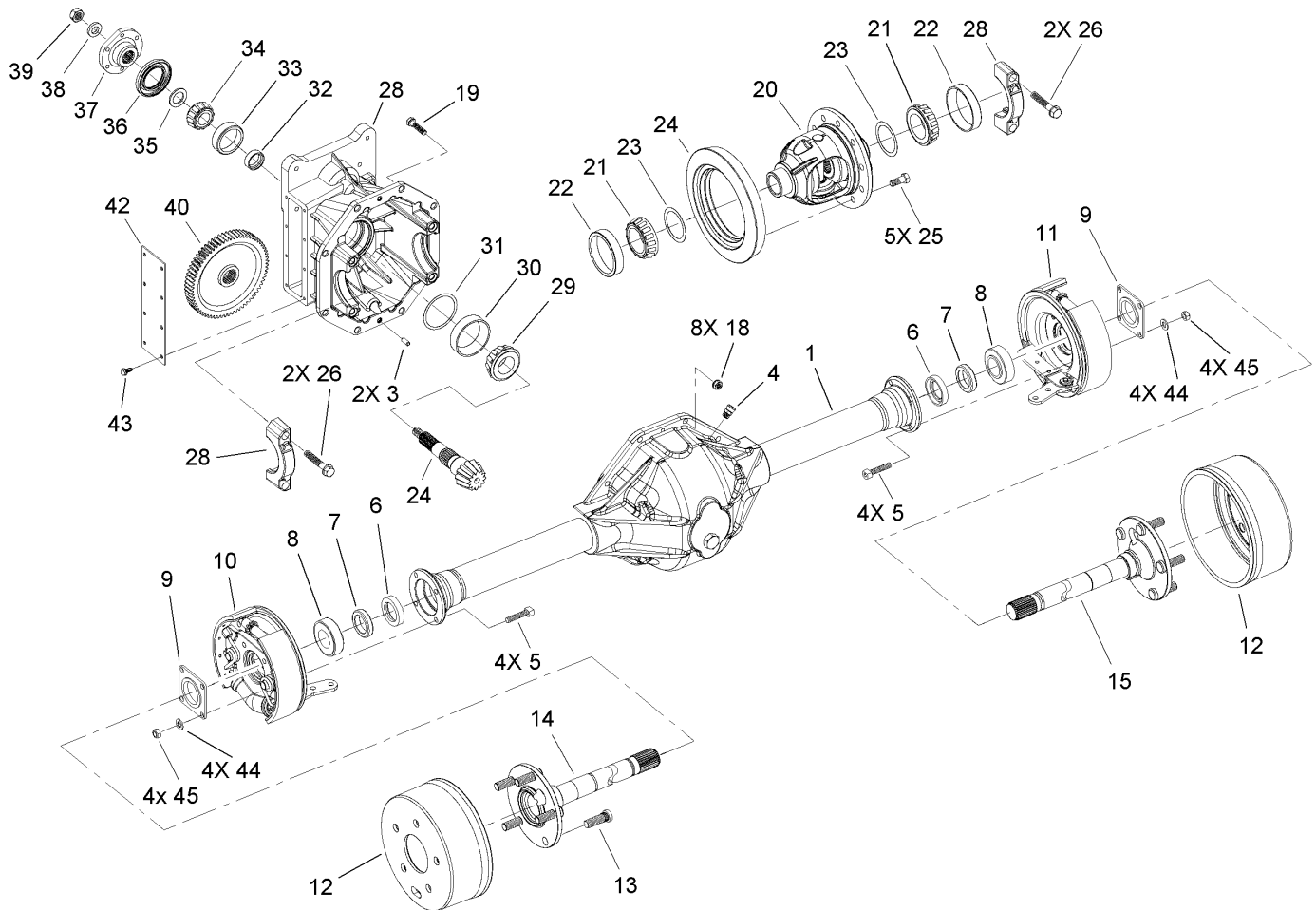
Air Cleaner Assembly No. 104-3427

Ref	Part No.	Qty.	Description				
1	105-4292	1	Nipple-Pipe				
2	104-0497	1	Cover ASM				
5	104-4897	1	Gasket				
6	98-4525	1	Bracket-Cleaner, Air				
7	104-0498	1	Valve-Vacuator				
8	108-3810	1	Filter-Air				
9	93-9164	1	Indicator-Mini				



Front Axle Assembly

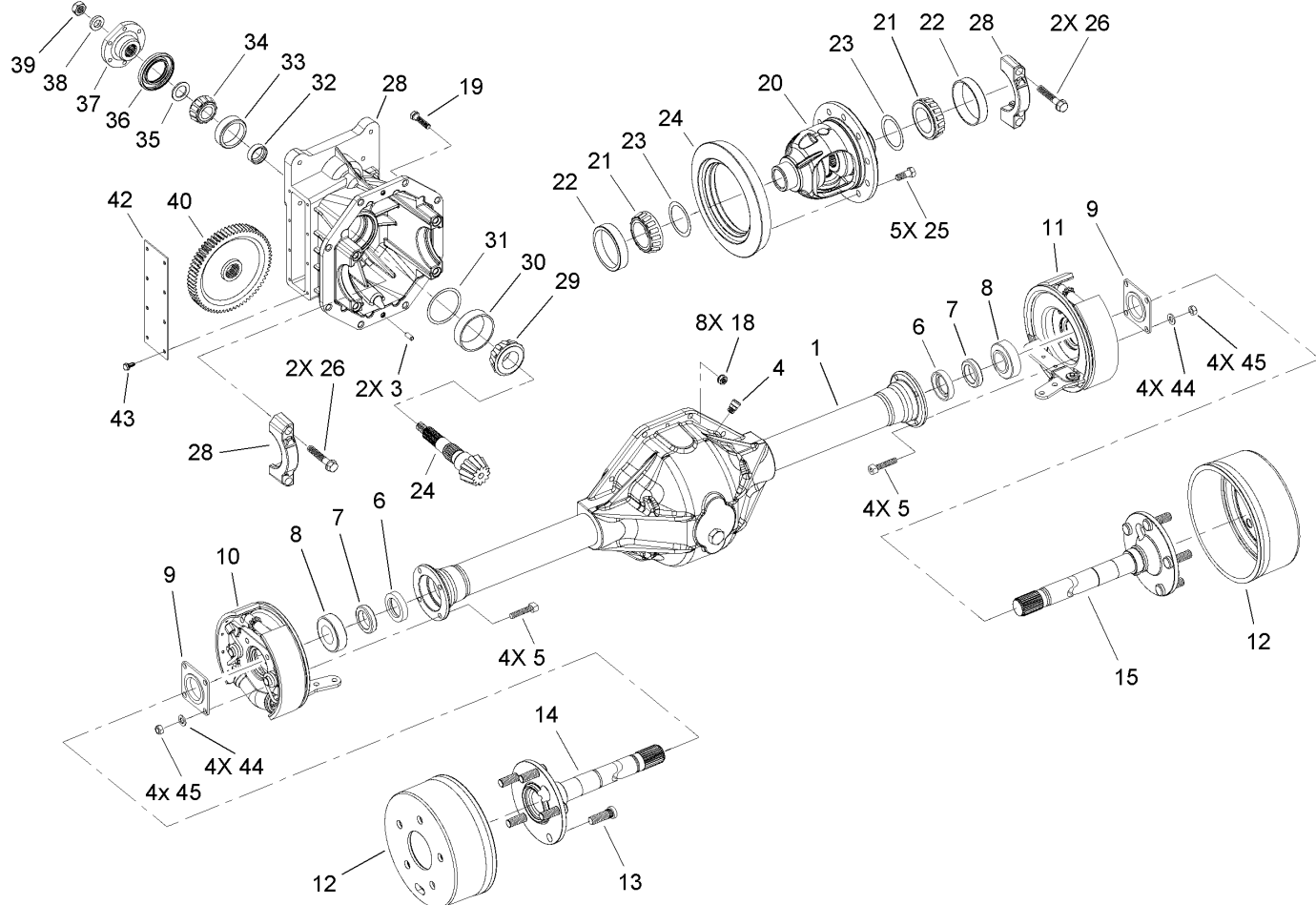
Ref	Part No.	Qty.	Description				
1	3273-38	4	Screw-HSH				
2	3253-8	4	Washer-Lock				
3	3296-48	4	Nut-Lock, NI				
4	92-5083	1	Hose-HYD				
5	2412-119	1	Clamp-Worm				
6	92-5088	1	Fitting-Elbow, 45 DEG				
6:1	237-81	1	O-Ring				
7	2810-1	1	Coupling-Pipe				
8	289-6	1	Nipple-Pipe				
9	42-6080	1	Shim-Axle				
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

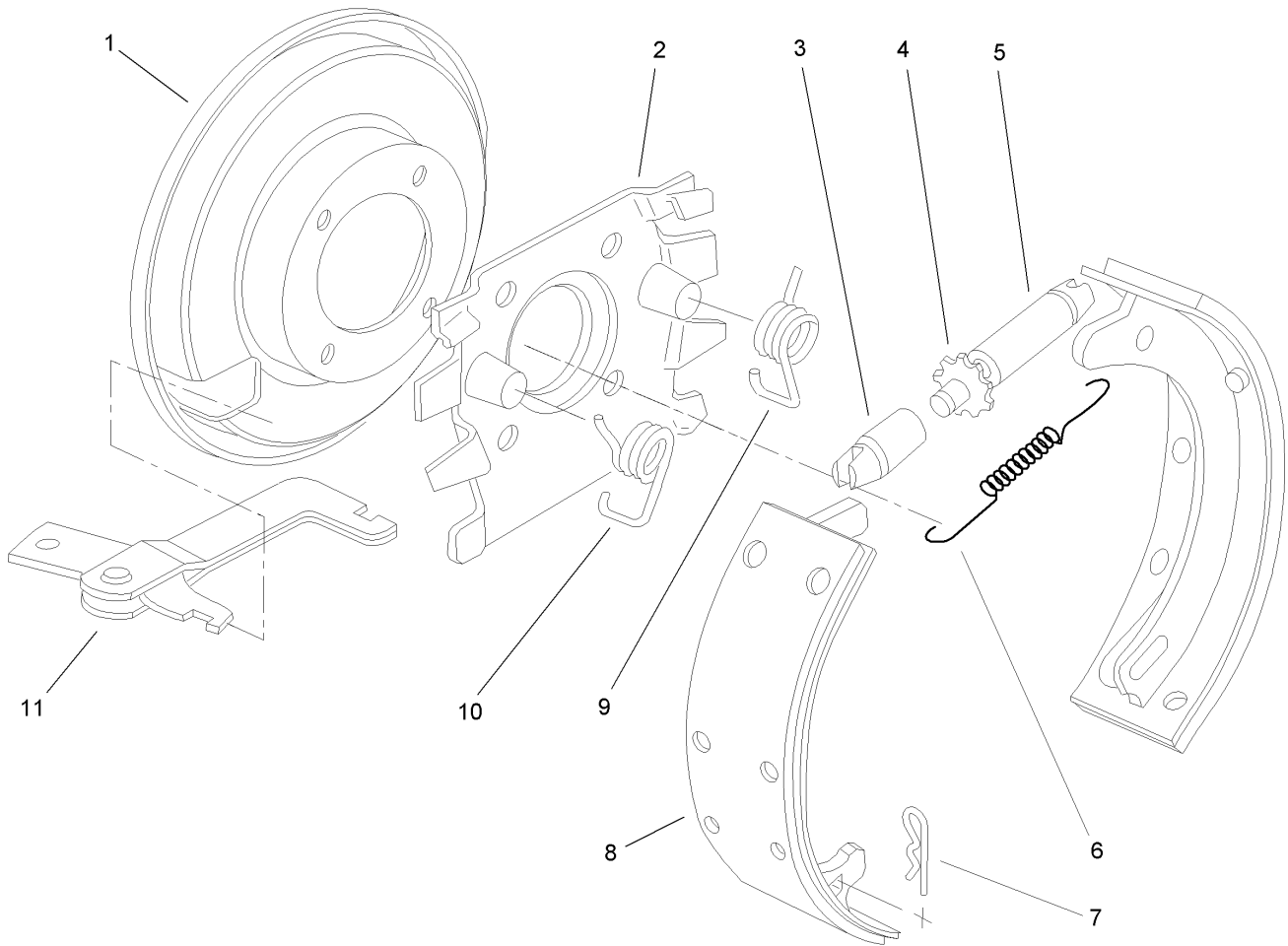
Ref	Part No.	Qty.	Description
25	21-7770	5	Screw-Gear, Drive
26	92-1773	4	Screw-HHF
28	110-3076	1	Carrier ASM
29	43-6760	1	Bearing-Roller, Cone Taper
30	43-6750	1	Bearing-Taper, Cup
31	43-6710	1	Shim-Pinion (.003)
31	43-6711	1	Shim-Pinion (.005)
31	43-6712	1	Shim-Pinion (.010)
31	43-6713	1	Shim-Pinion (.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)

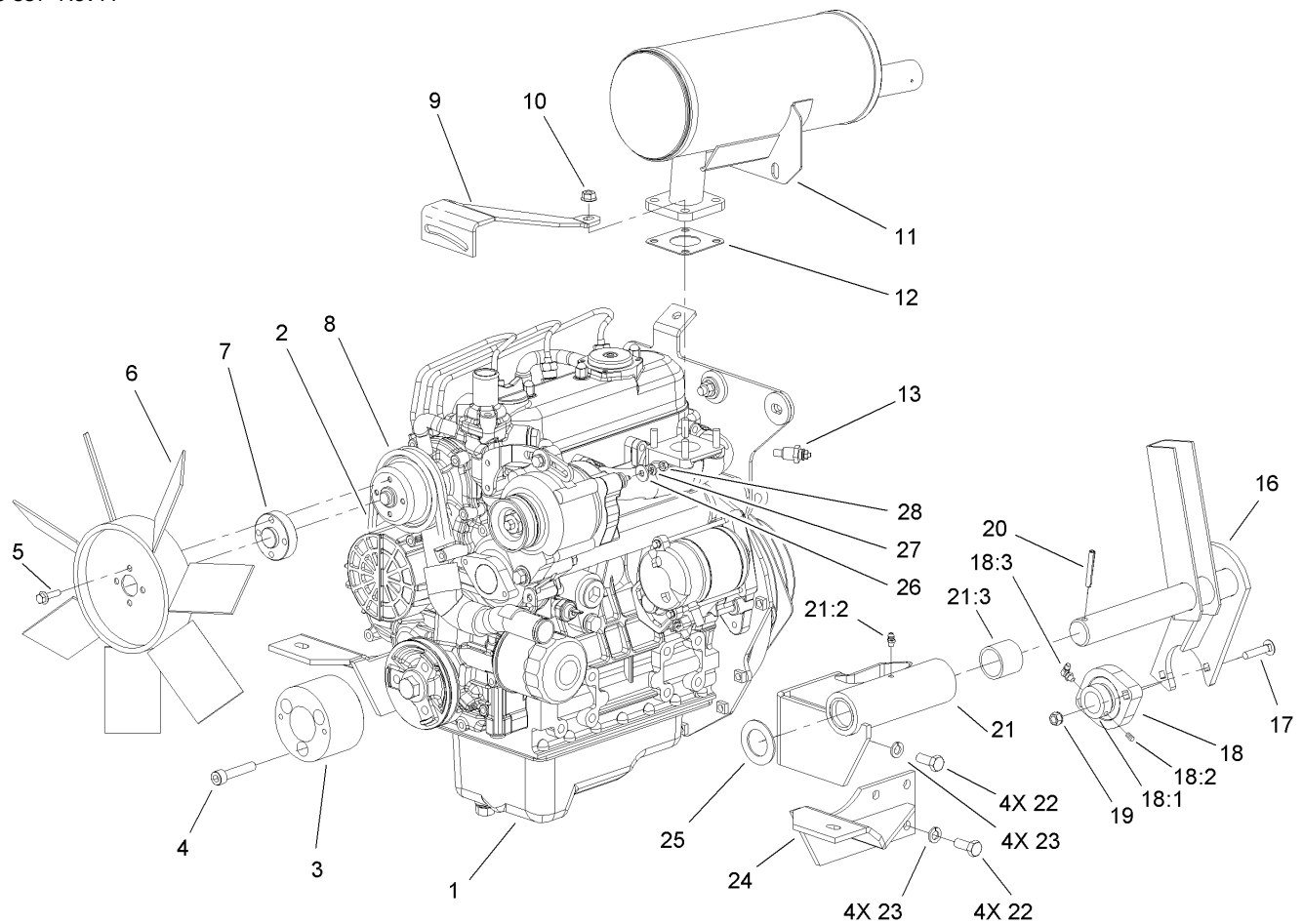
Ref	Part No.	Qty.	Description
35	72-3583	1	Shim-Bearing, Front (.118)
35	72-3584	1	Shim-Bearing, Front (.120)
35	72-3585	1	Shim-Bearing, Front (.125)
35	72-3586	1	Shim-Bearing, Front (.127)
35	72-3587	1	Shim-Bearing, Front (.129)
35	72-3588	1	Shim-Bearing, Front (.131)
35	72-3590	1	Shim-Bearing, Front (.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



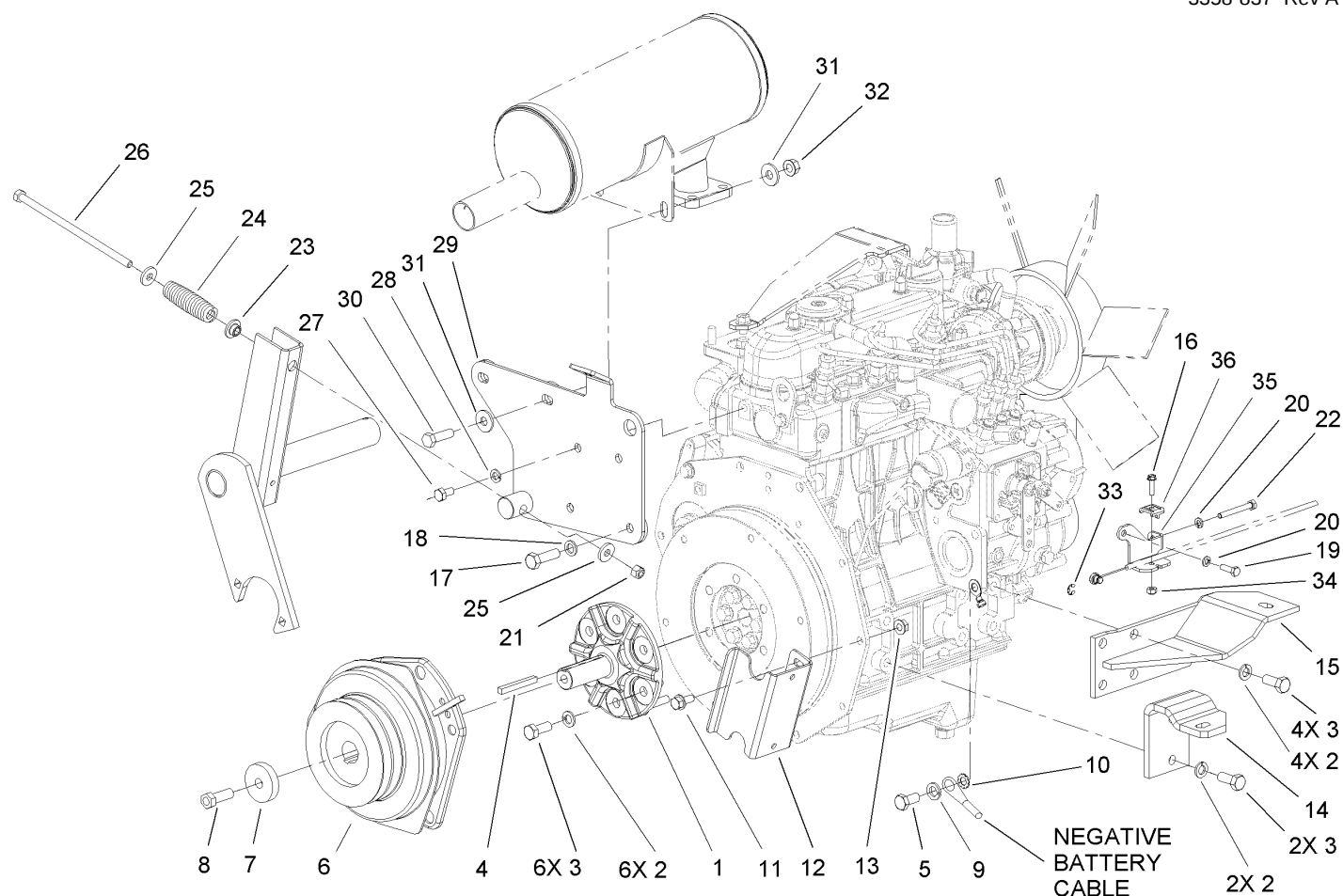
Right and Left Hand Brake Assembly

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

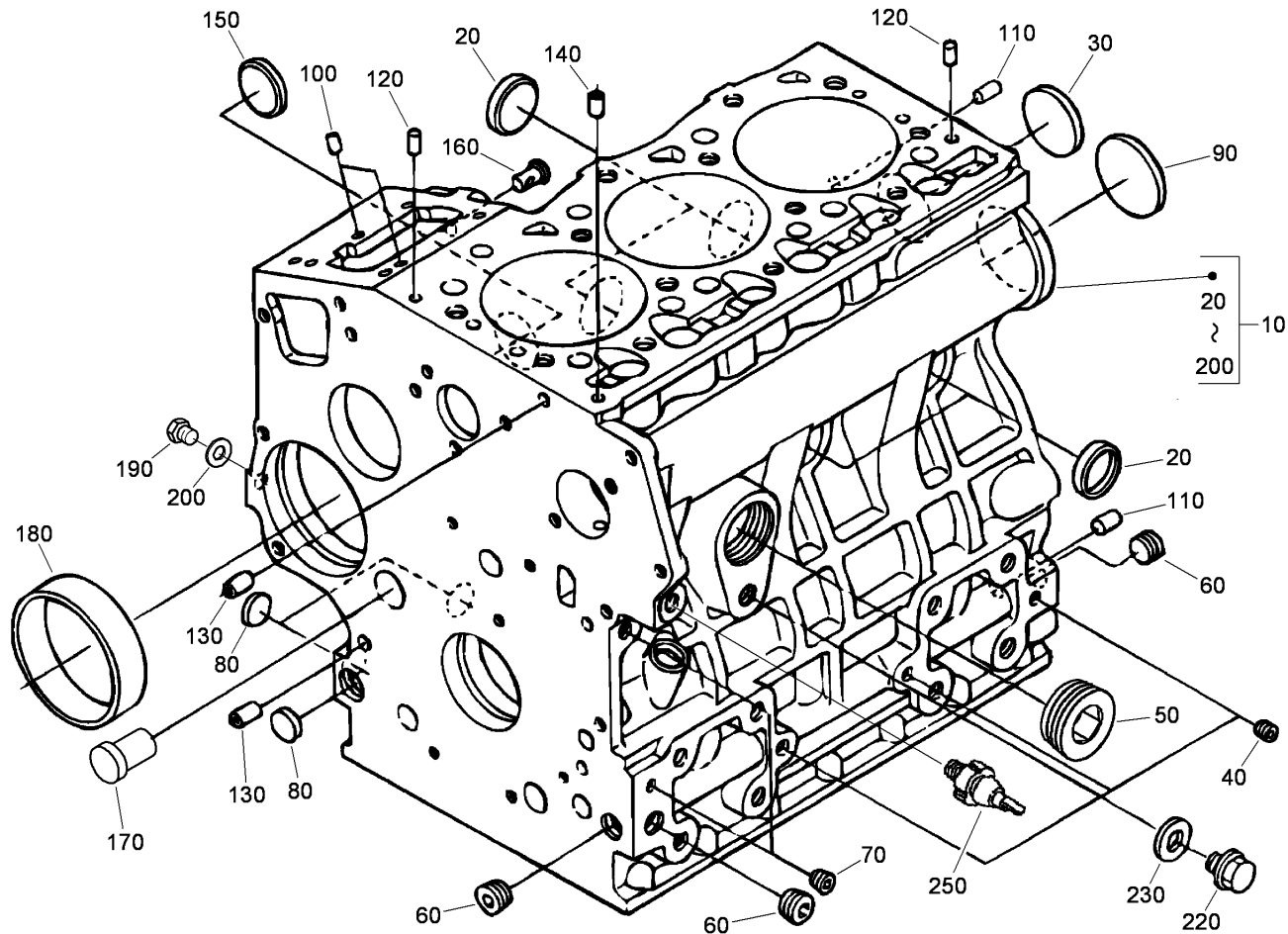
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	114-2885	1	Engine ASM-Kubota	22	43-0090	8	Screw-HH
2	104-3494	1	Belt-V	23	42-9600	8	Washer-Lock, Spring
3	104-1723	1	Adapter-Front Drive	24	104-1702-03	1	Engine Mount ASM
4	3274-106	3	Screw-HSH	25	3-4324	1	Washer-Flat
5	33103-020	4	Screw-HHF	26	3256-22	1	Washer-Flat
6	104-4246	1	Fan-Engine	27	43-5930	1	Washer-Spring
7	104-4247	1	Spacer-Fan	28	33013-00	1	Nut-Hex
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-Keys				
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				



Engine Assembly No. 2

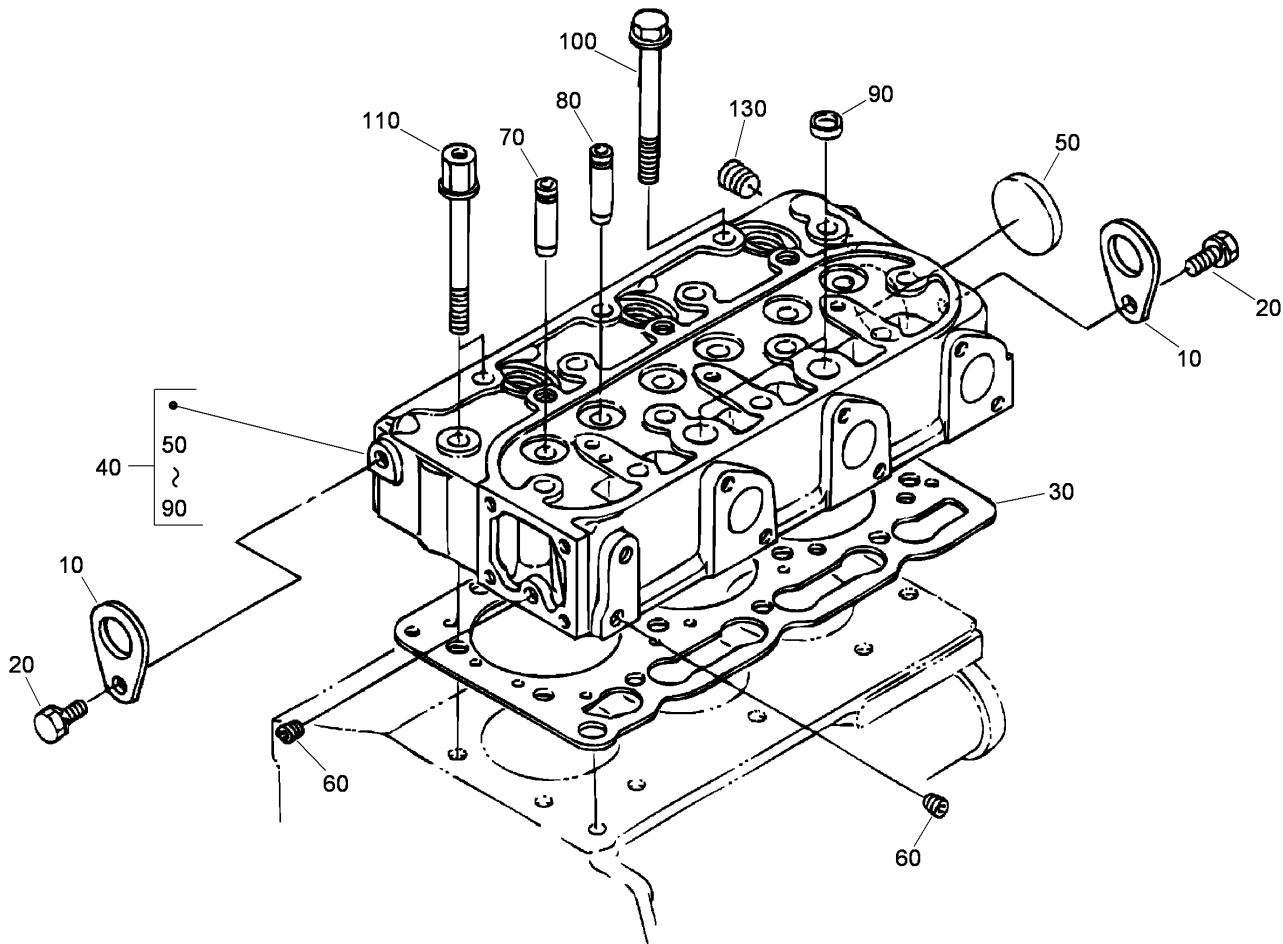
Ref	Part No.	Qty.	Description
1	104-1715	1	Hub-Clutch
2	42-9600	12	Washer-Lock, Spring
3	43-0090	12	Screw-HH
4	63-8150	1	Key-Square
5	63-7790	1	Screw-Cap
6	107-9061	1	Electric Clutch / Brake ASM
7	105-3698	1	Spacer
8	3212-5	1	Screw-HH
9	3253-6	1	Washer-Lock
10	3255-9	1	Washer-Lock
11	3234-5	2	Screw-HHF
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



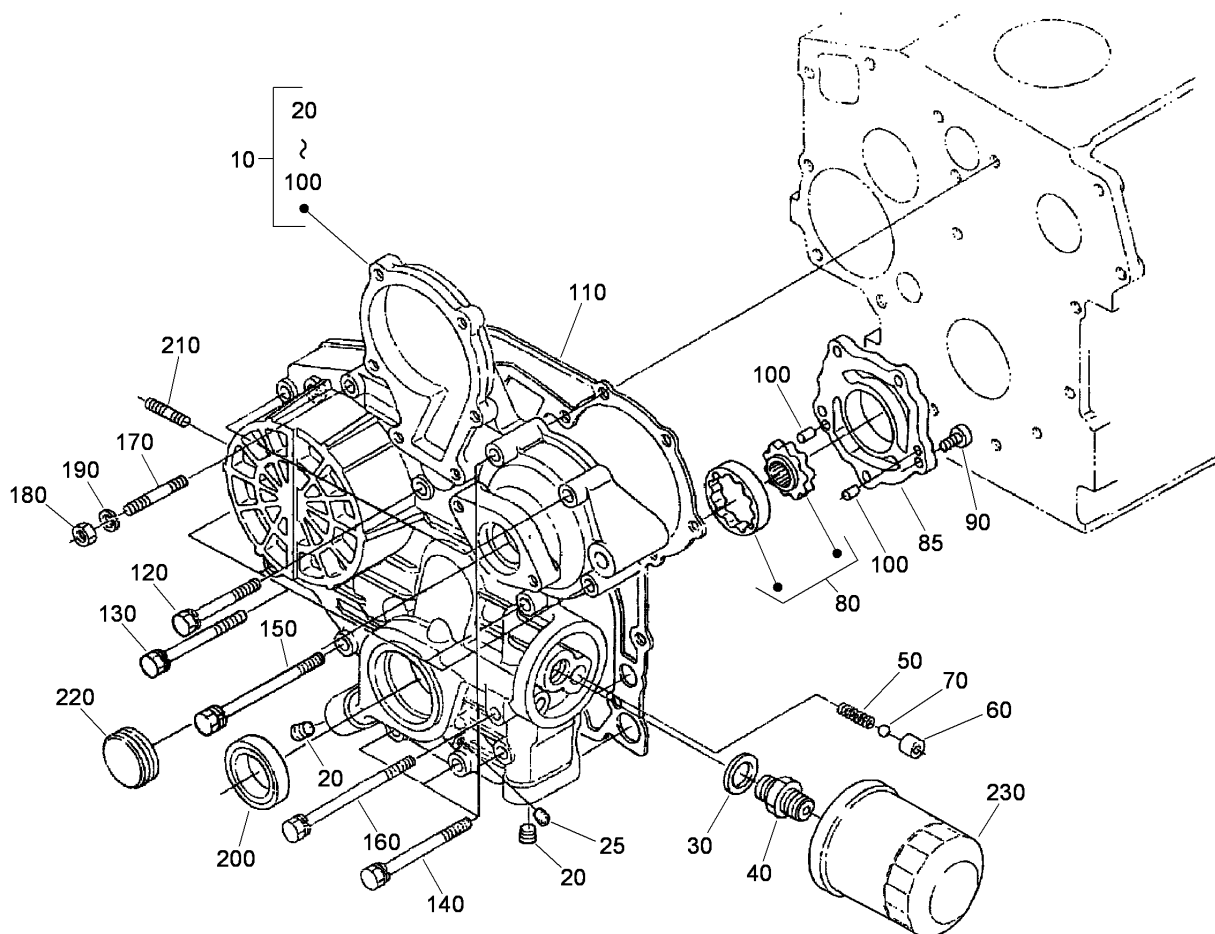
Crankcase Assembly

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				



Cylinder Head Assembly

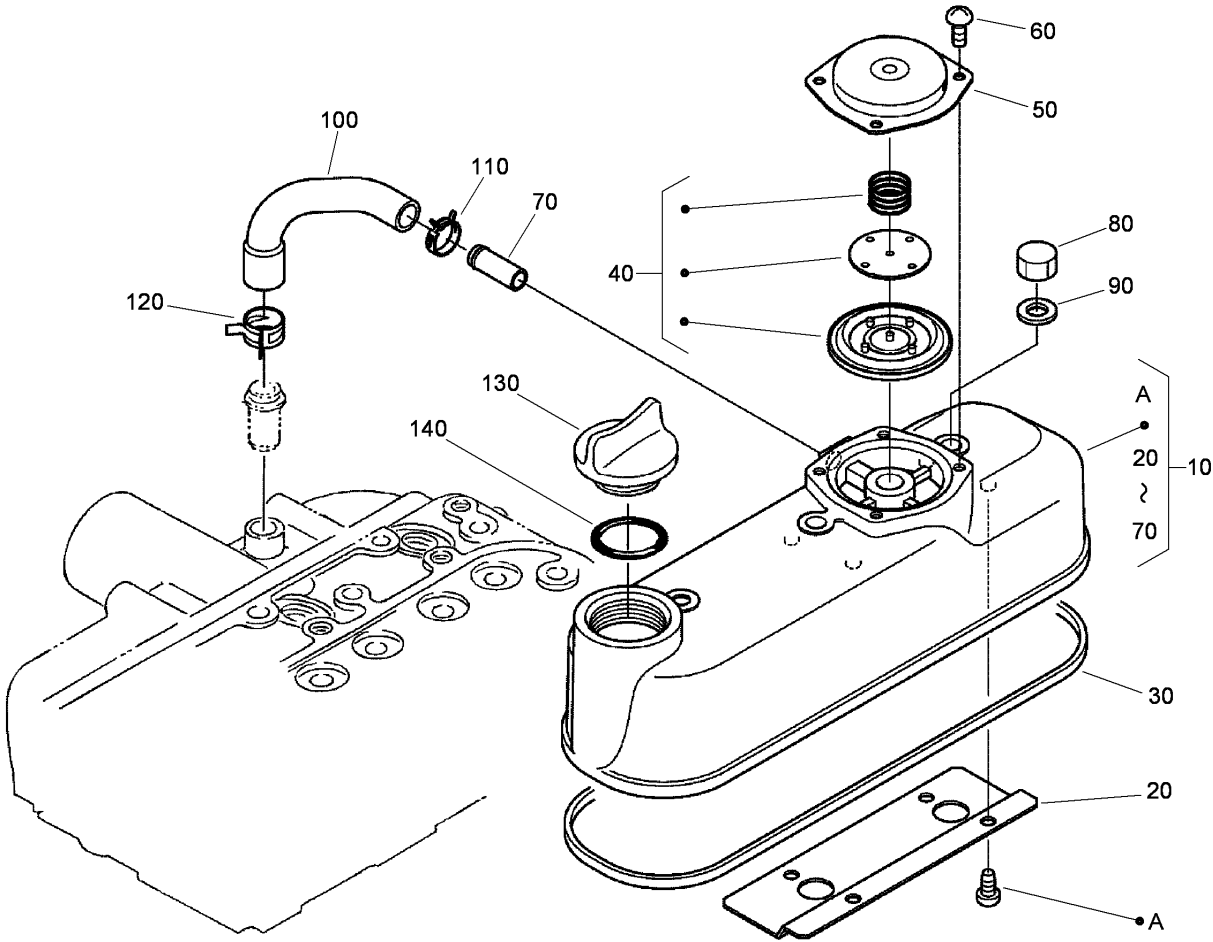
Ref	Part No.	Qty.	Description				
10	98-7531	2	Hook-Engine				
20	100-9195	2	Bolt				
30	108-6573	1	Gasket-Head, Cylinder				
40	108-6574	1	Cylinder Head ASM				
50	105-3705	1	Cap-Sealing				
60	98-9687	2	Plug				
70	107-9066	3	Guide-Valve, Inlet				
80	107-9067	3	Guide-Valve, Exhaust				
90	98-9389	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

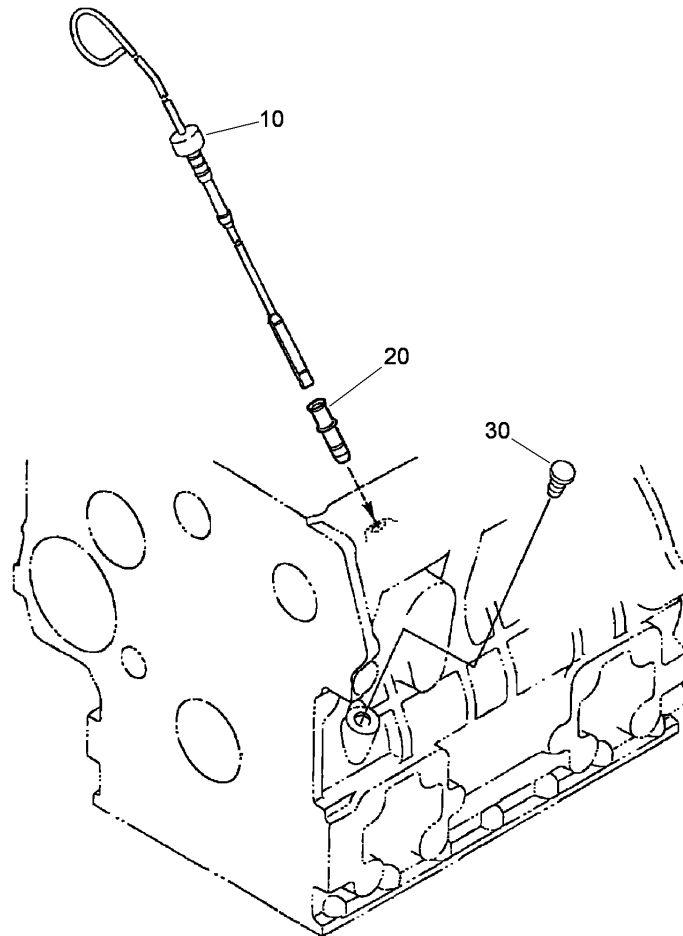
Ref	Part No.	Qty.	Description
10	107-9068	1	Gear Case ASM
20	98-9598	2	Plug
25	98-7487	1	Plug
30	98-7562	1	Washer-Plain
40	98-9388	1	Joint-Pipe
50	98-9544	1	Spring
60	98-9543	1	Seat-Valve
70	98-9380	1	Ball
80	98-9540	1	Oil Pump Rotor ASM
85	107-9069	1	Cover-Pump, Oil
90	107-9071	5	Screw
100	107-9072	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



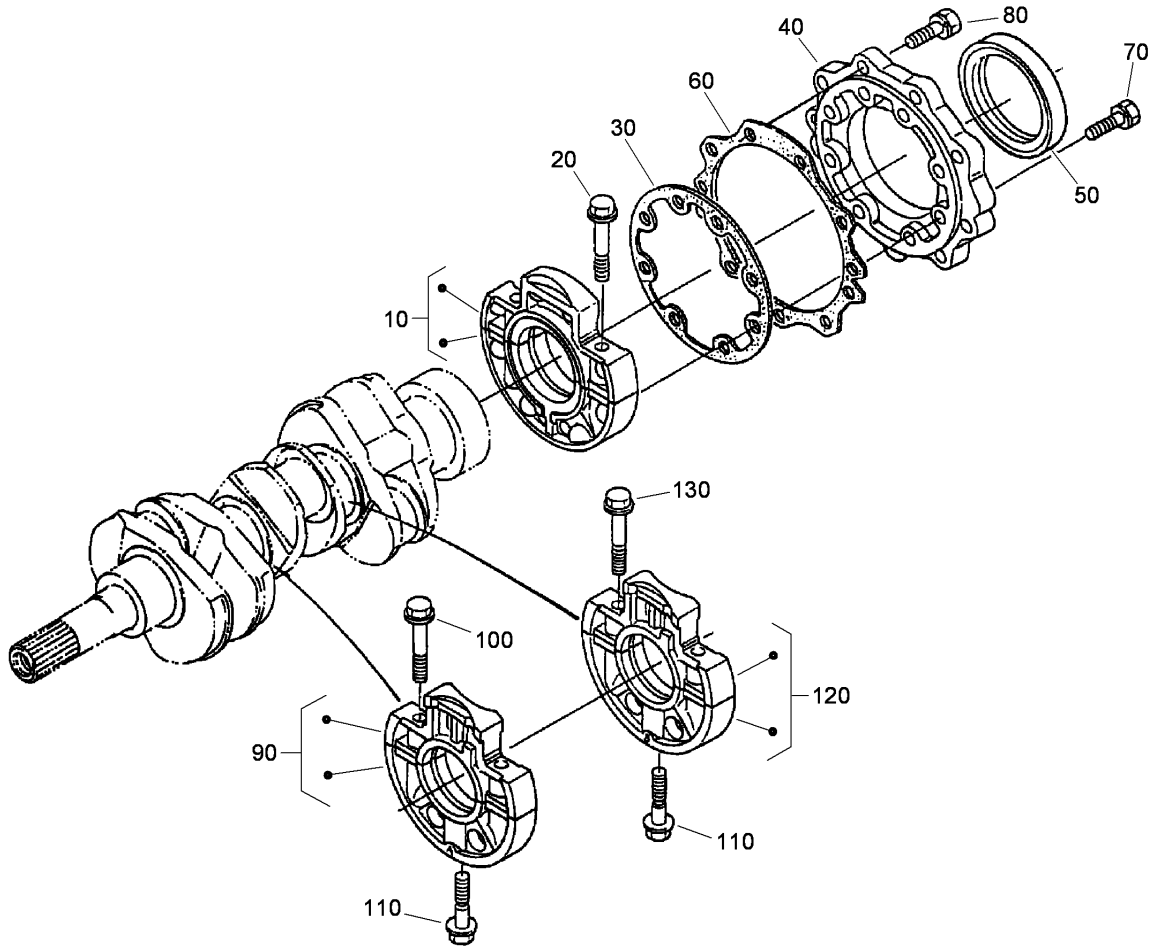
Head Cover Assembly

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				



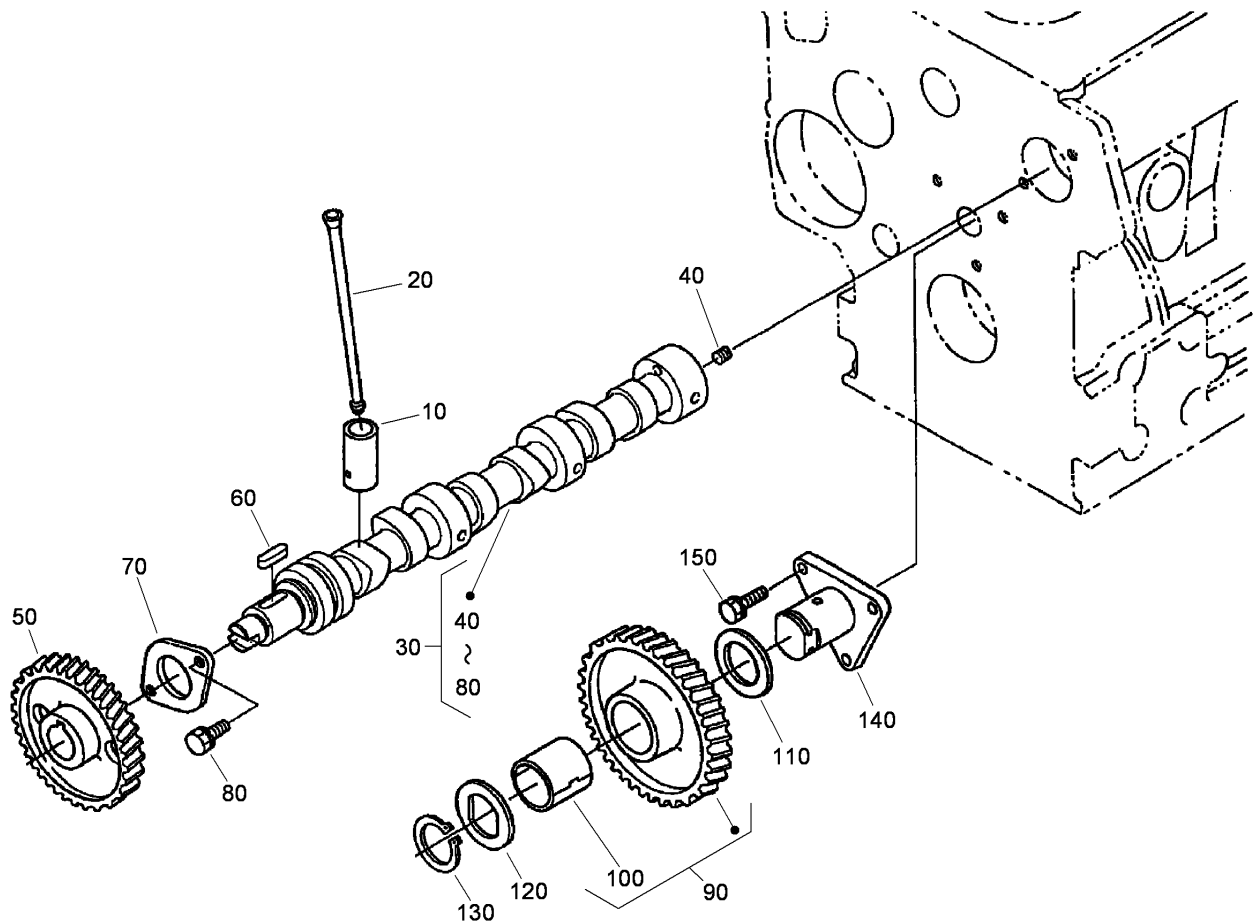
Dipstick and Guide Assembly

Ref	Part No.	Qty.	Description				
10	107-9076	1	Gauge-Oil				
20	105-4580	1	Guide				
30	105-3715	1	Plug-Gauge, Oil				



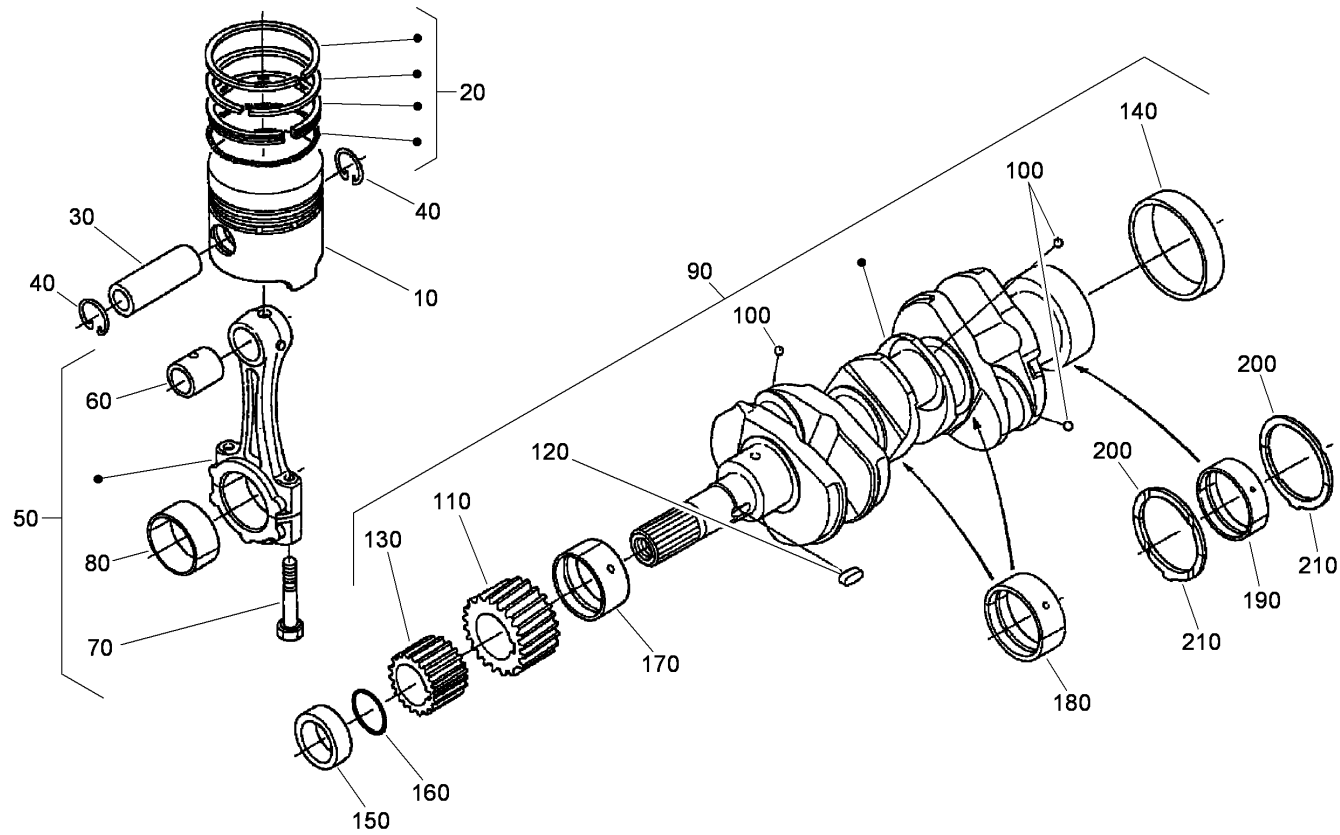
Main Bearing Case Assembly

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

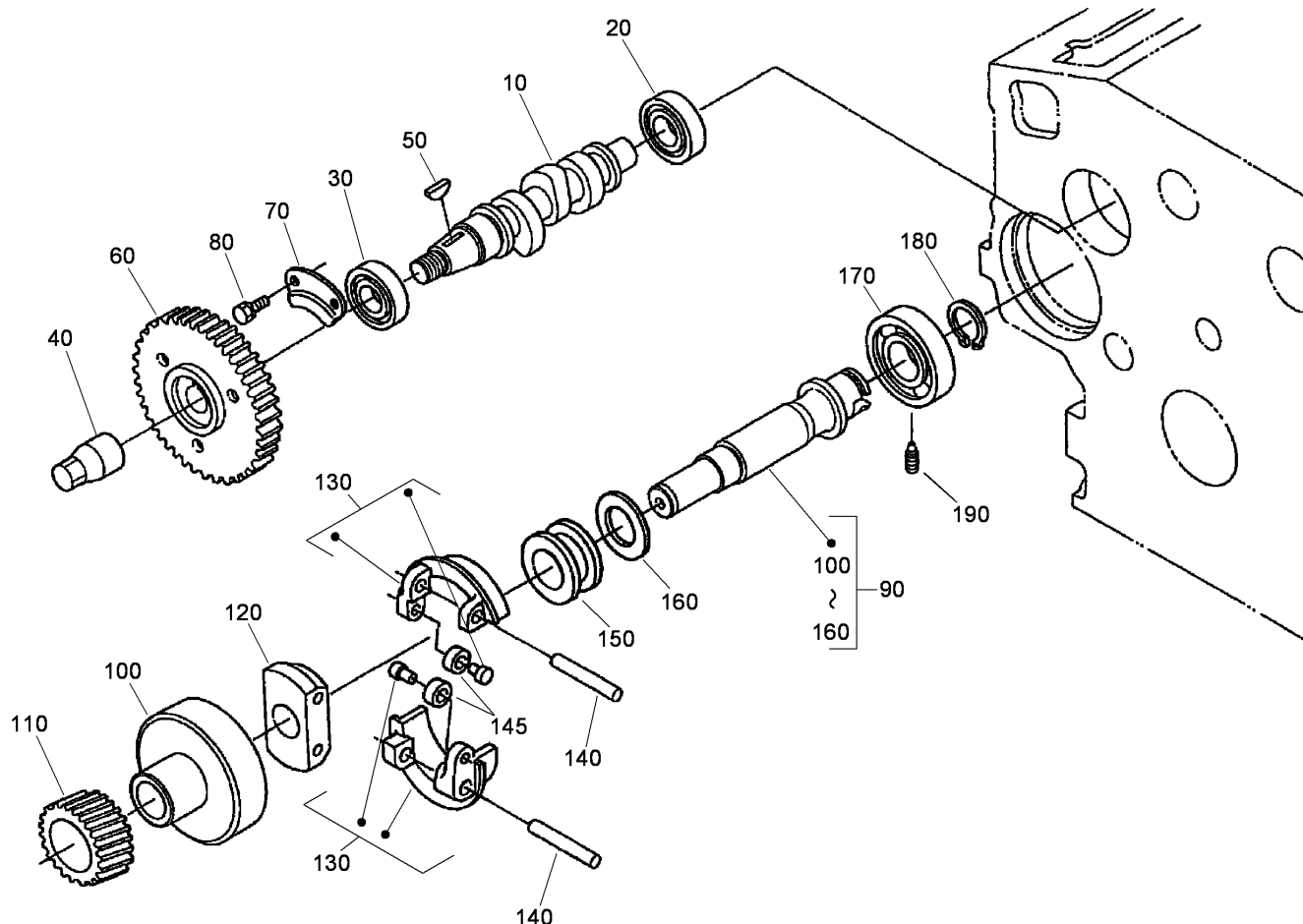
Ref	Part No.	Qty.	Description				
10	98-9616	6	Tappet				
20	98-9509	6	Rod-Push				
30	108-6576	1	Camshaft ASM				
40	98-7449	1	Screw-Set				
50	98-9512	1	Gear-Cam				
60	98-9378	1	Key-Feather				
70	98-9510	1	Stopper-Camshaft				
80	98-9351	2	Bolt				
90	98-9649	1	Idle Gear ASM				
100	98-9650	1	Bushing-Gear,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

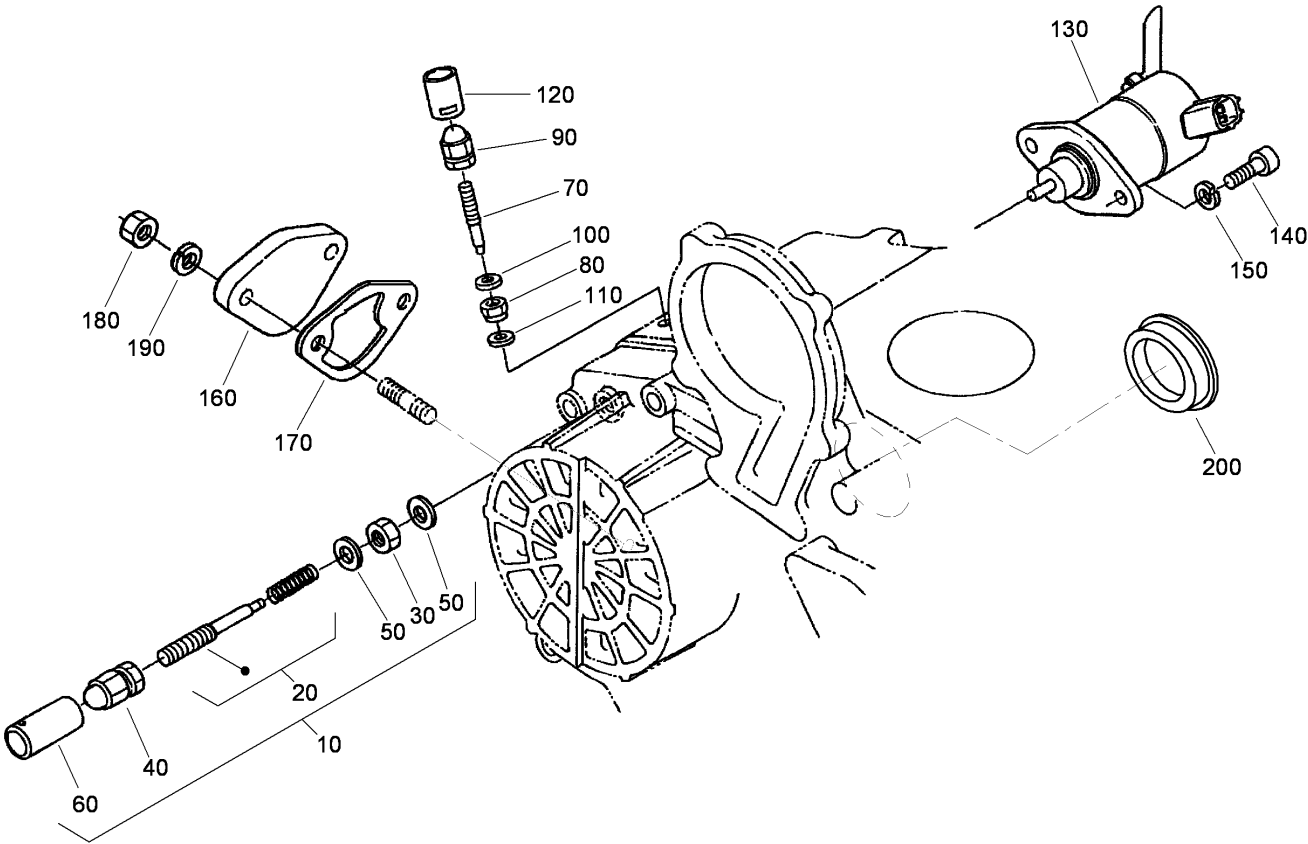
Ref	Part No.	Qty.	Description
10	112-8415	3	Piston ASM
10	112-8404	3	Piston
20	98-9619	3	Piston Ring ASM (0.5Mm)
20	98-9618	3	Piston Ring ASM (STD)
30	98-9513	3	Pin-Piston
40	98-9514	6	Clip-Circular, Piston Pin
50	98-9516	3	Connecting Rod ASM
60	98-9515	3	Bushing-Pin, Piston
70	98-9517	6	Bolt-Rod, Connecting
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)



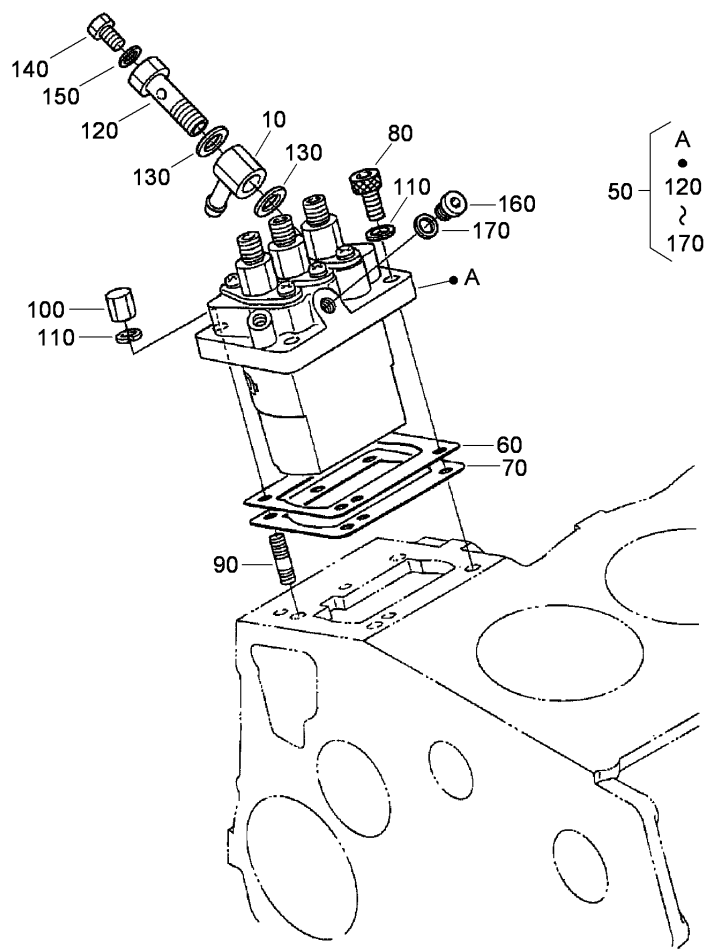
Fuel Camshaft and Governor Shaft Assembly

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



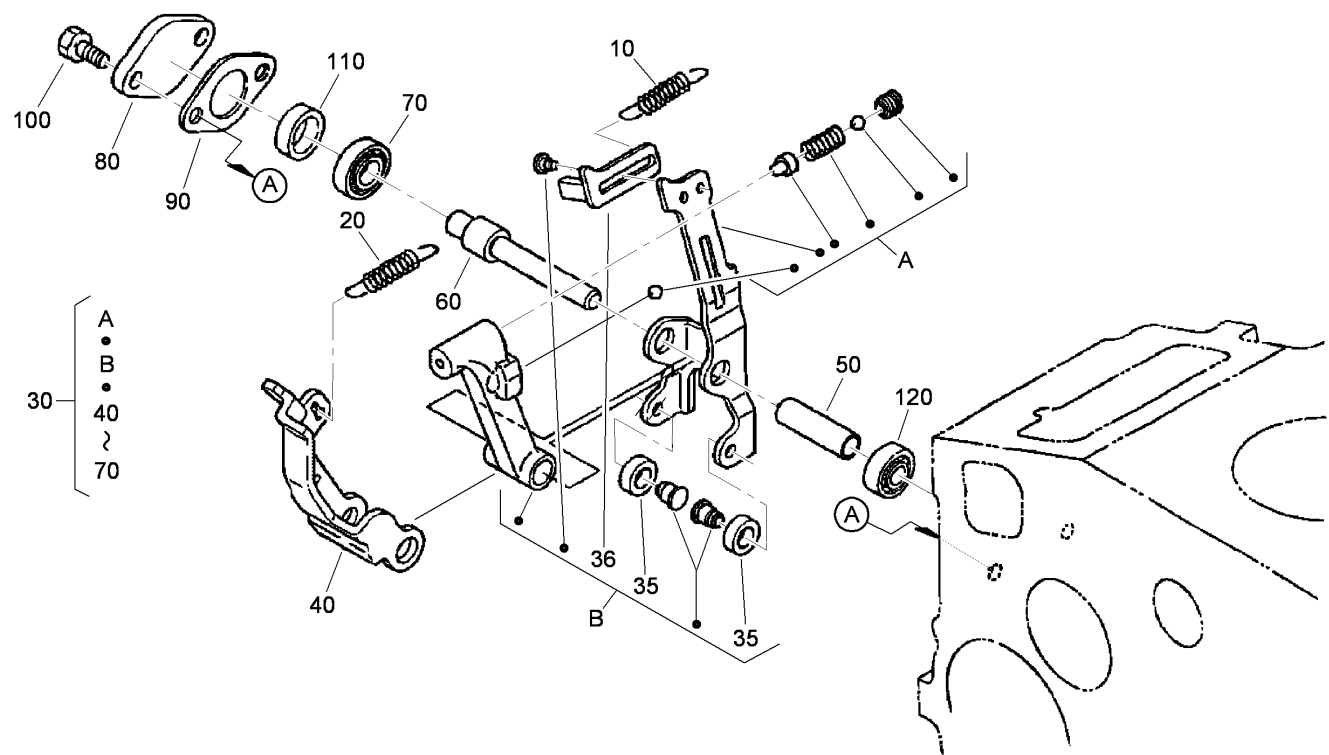
Idle Apparatus Assembly

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				



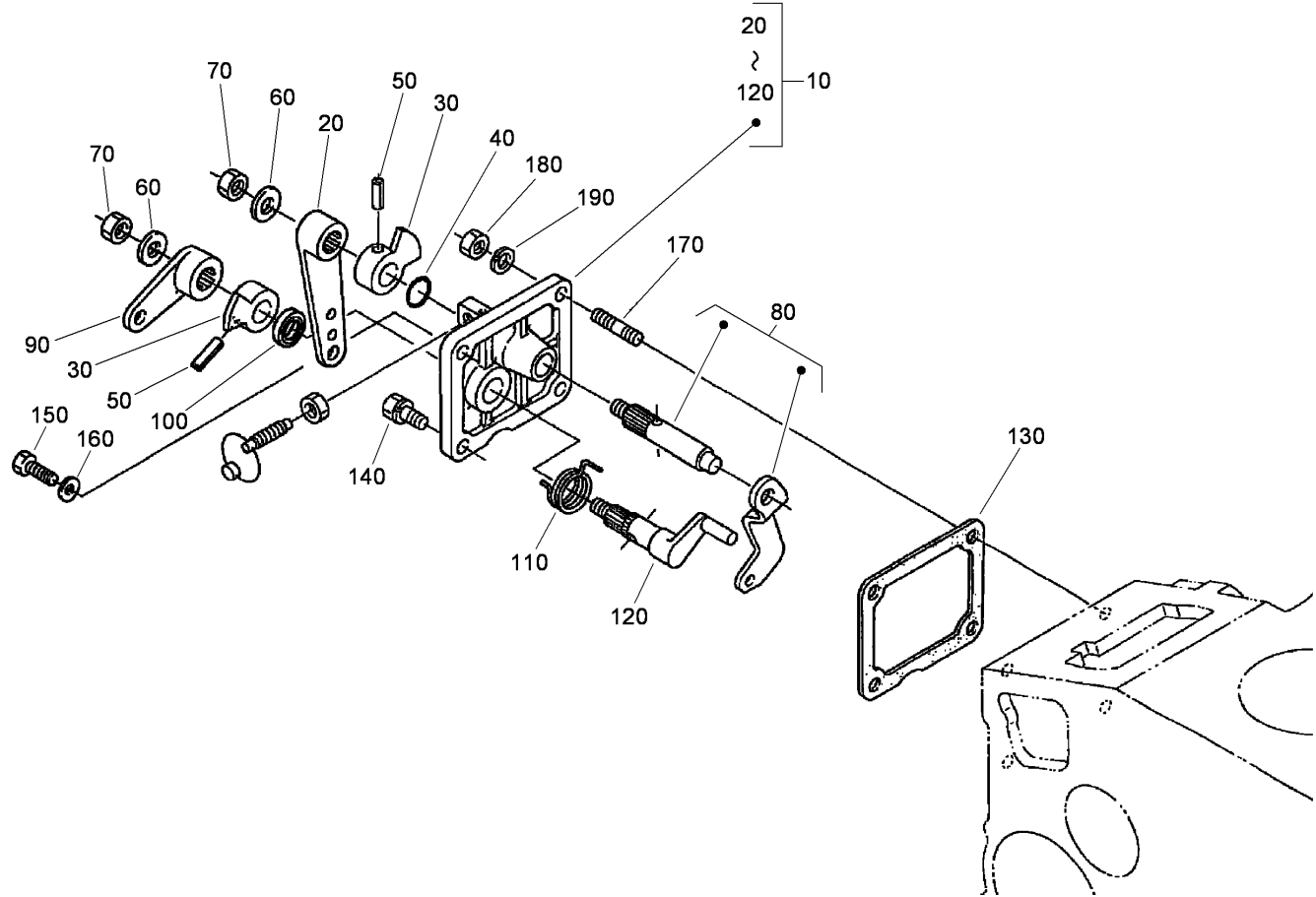
Injection Pump Assembly

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				



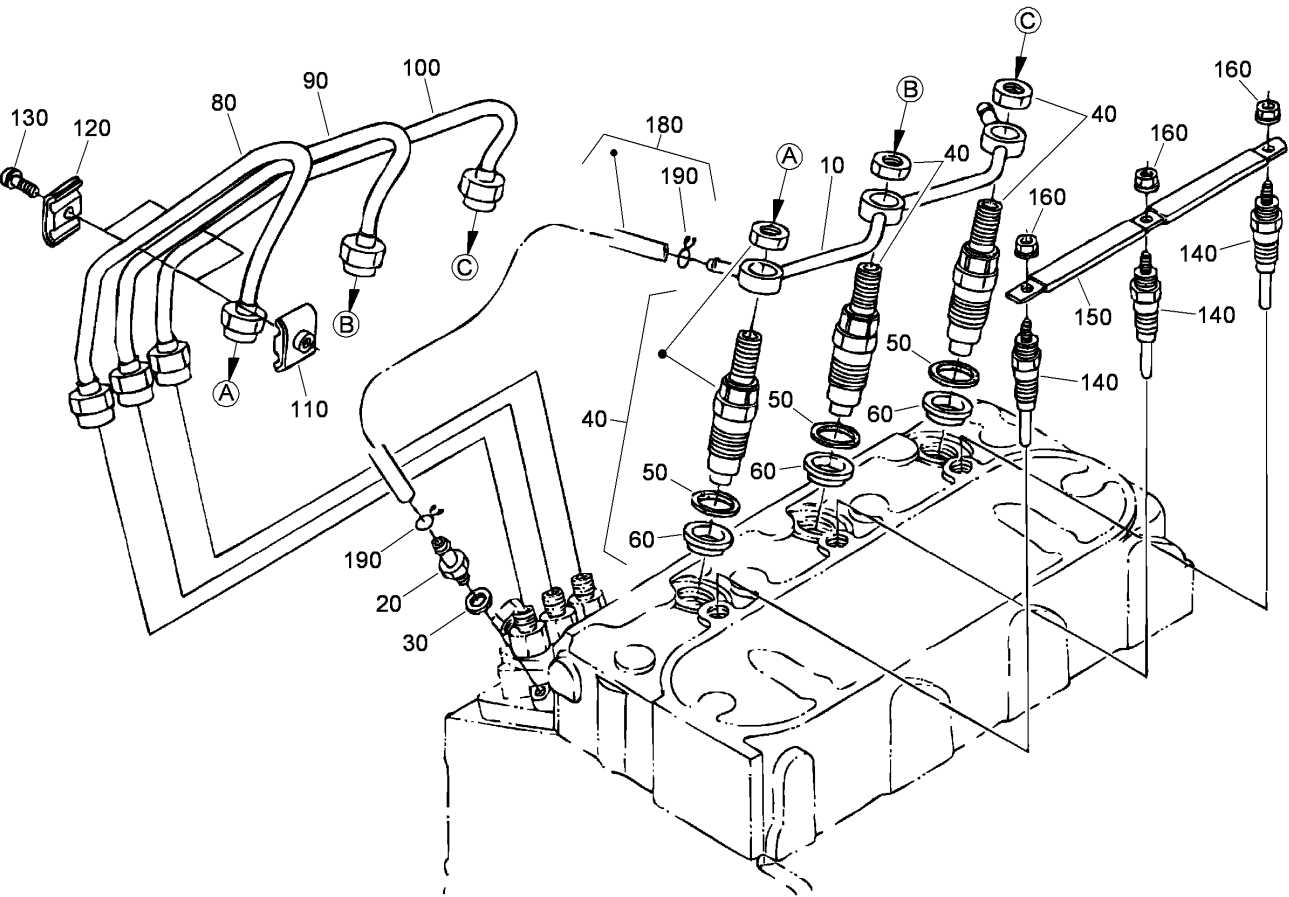
Governor Assembly

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				



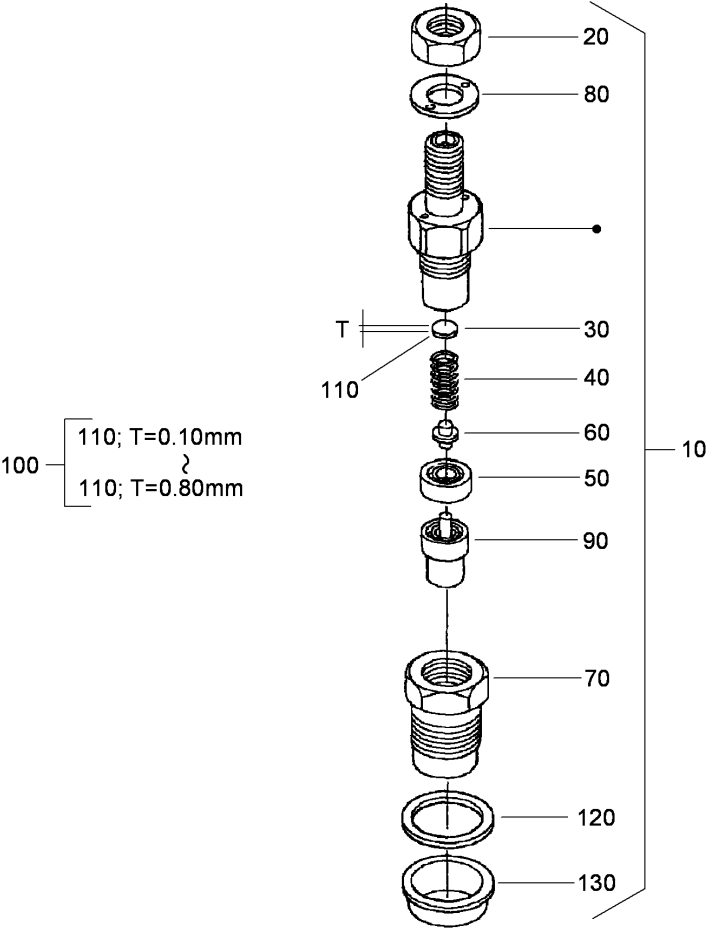
Speed Control Plate Assembly

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				



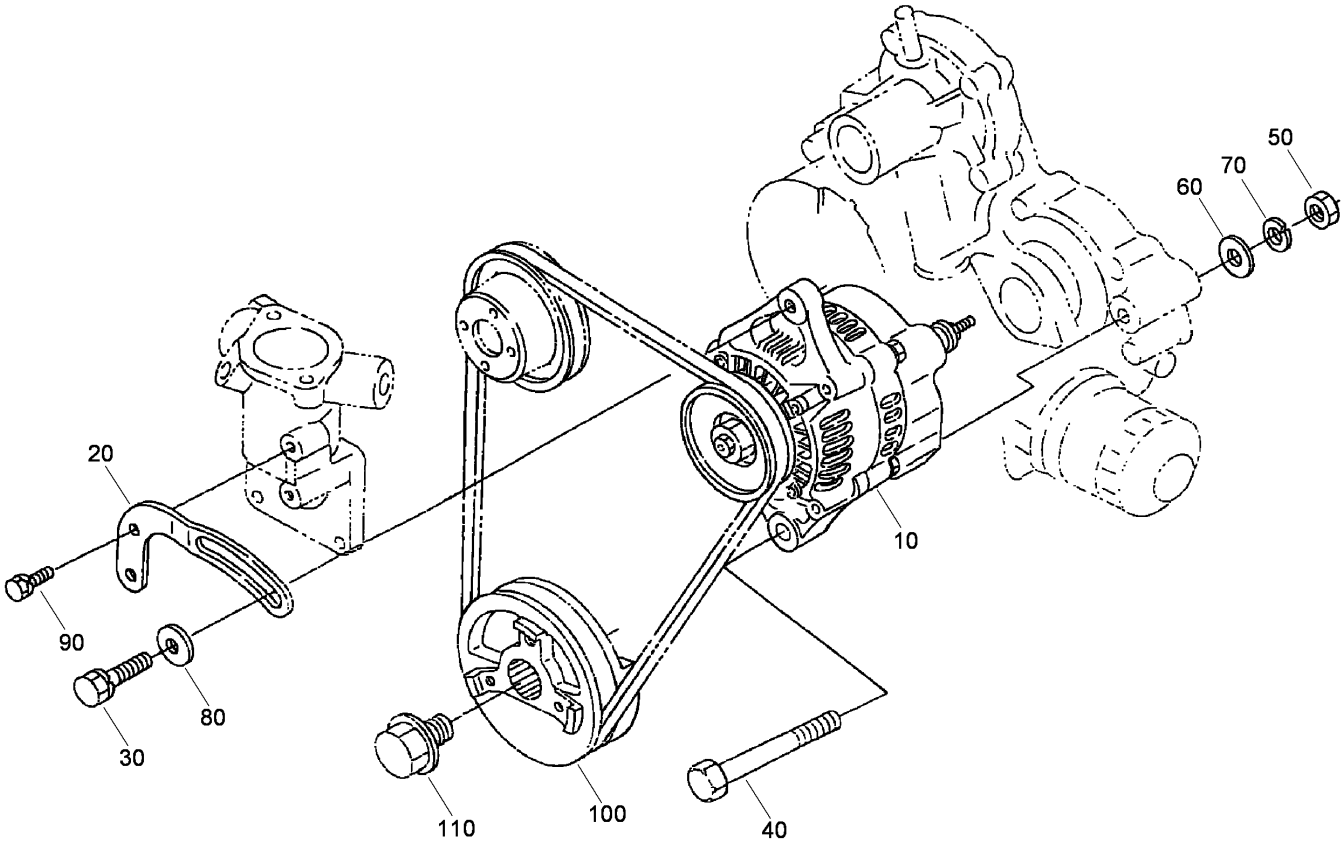
Nozzle Holder and Glow Plug Assembly

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)				
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				



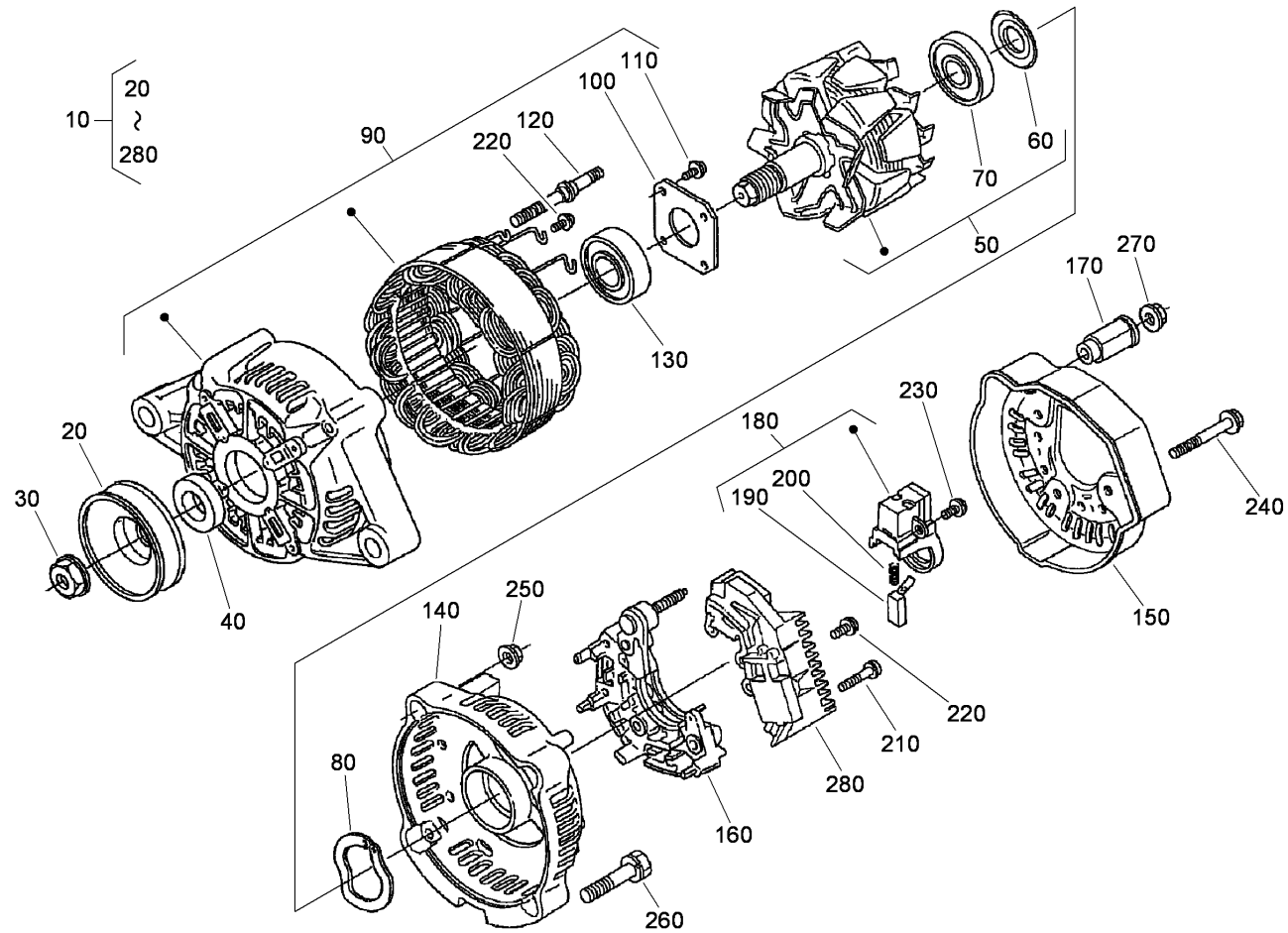
Nozzle Holder Assembly

Ref	Part No.	Qty.	Description				
10	108-2866	3	Nozzle Holder Kit				
20	99-8301	3	Nut				
30	99-8302	3	Washer-Adjusting				
40	99-8303	3	Spring-Nozzle				
50	99-8304	3	Spacer-Distance				
60	99-8305	3	Rod-Push				
70	99-8306	3	Nut-Nozzle				
80	99-8307	3	Washer-Plain				
90	107-7826	3	Piece-Nozzle				
100	99-8309	3	Adjusting Washer ASM				
110	99-8310	3	Washer-Adjust (0.10Mm)				
110	99-8311	3	Washer-Adjust (0.20Mm)				
110	99-8312	3	Washer-Adjust (0.30Mm)				
110	99-8313	3	Washer-Adjust (0.40Mm)				
110	99-8314	3	Washer-Adjust (0.50Mm)				
110	99-8315	3	Washer-Adjust (0.52Mm)				
110	99-8316	3	Washer-Adjust (0.54Mm)				
110	99-8317	3	Washer-Adjust (0.56Mm)				
110	99-8318	3	Washer-Adjust (0.58Mm)				
110	99-8319	3	Washer-Adjust (0.80Mm)				
120	98-7676	3	Gasket				
130	98-7677	3	Seal				



Alternator and Pulley Assembly

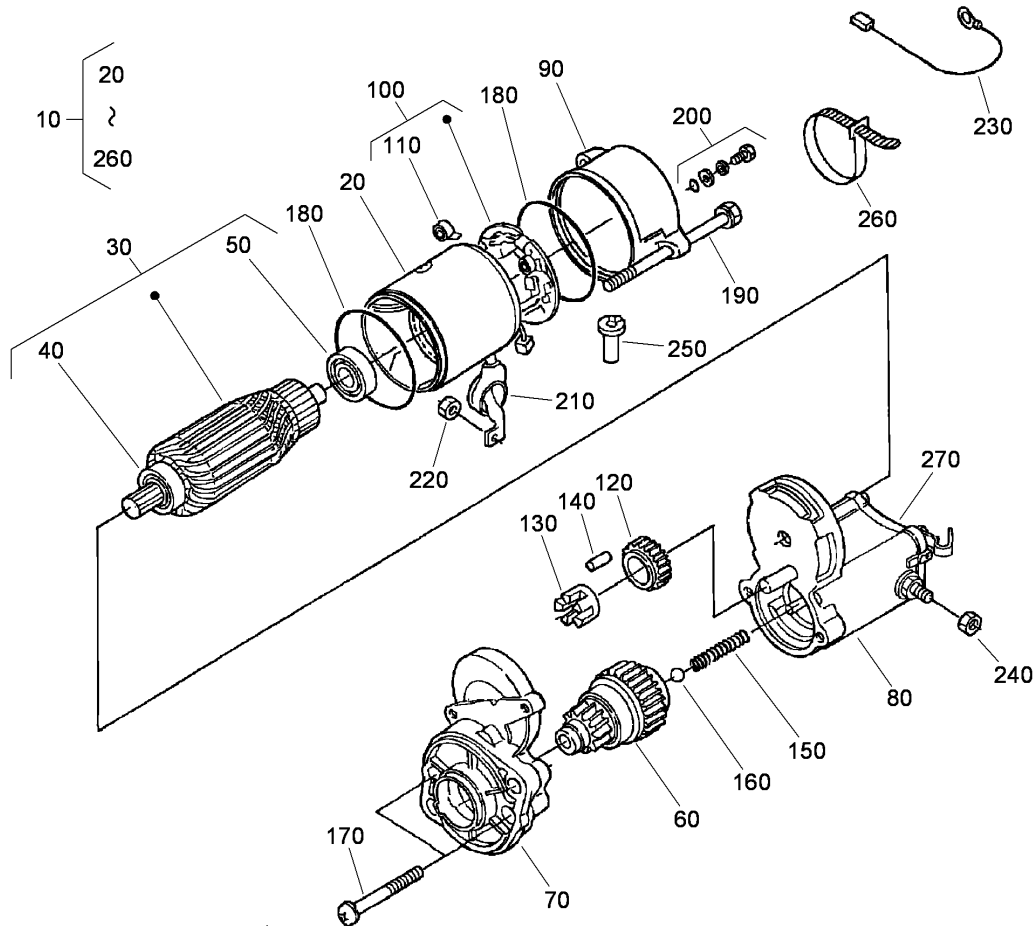
Ref	Part No.	Qty.	Description				
10	98-9474	1	Alternator ASM				
20	98-9573	1	Stay-Dynamo				
30	108-7088	1	Bolt				
40	98-9360	1	Bolt				
50	98-7737	1	Nut				
60	3256-24	1	Washer-Flat				
70	98-7738	1	Washer-Spring				
80	100-9233	1	Washer-Plain				
90	98-7692	1	Bolt				
100	98-9473	1	Pulley-Drive,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

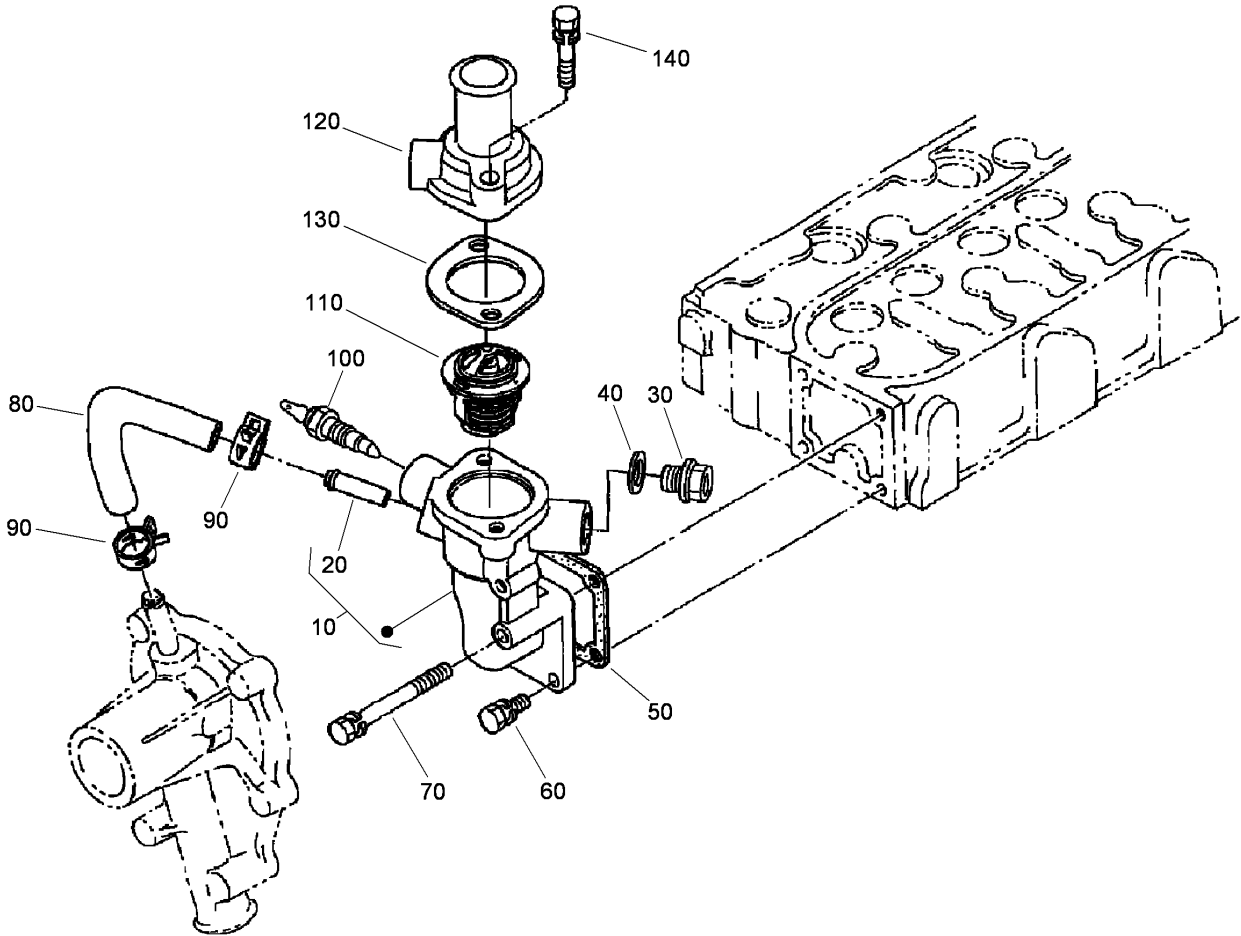
Ref	Part No.	Qty.	Description
250	98-7730	2	Nut
260	98-7731	2	Bolt
270	98-7732	1	Nut
280	110-3799	1	Regulator ASM



Starter Component Assembly

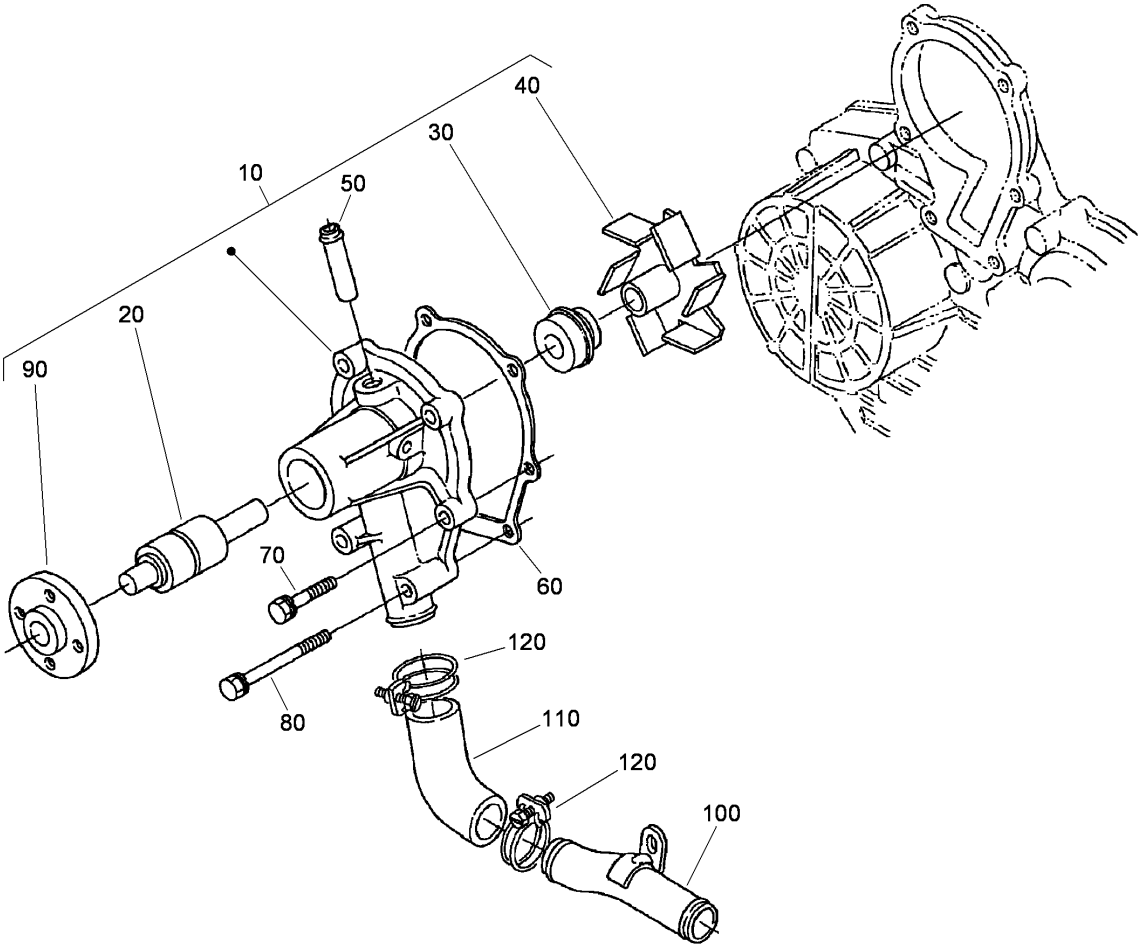
Ref	Part No.	Qty.	Description
10	98-9705	1	Starter ASM
20	104-8608	1	Yoke ASM
30	98-7742	1	Armature ASM
40	98-7744	1	Bearing
50	98-7743	1	Bearing
60	99-8373	1	Clutch-Running, Over
70	99-8374	1	Frame-End, Drive
80	105-3746	1	Magnetic Switch ASM
90	98-7748	1	Frame-End
100	98-7749	1	Brush Holder ASM
110	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



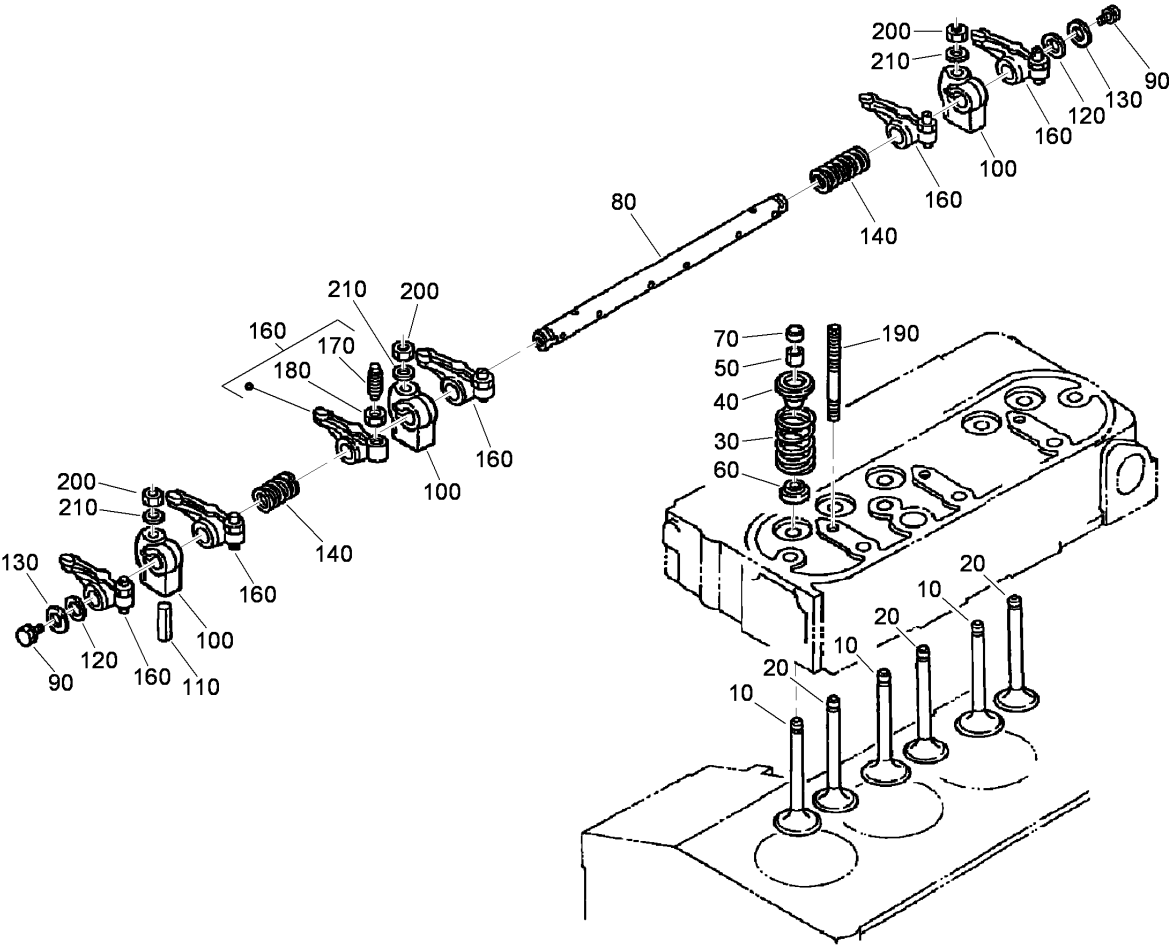
Water Flange and Thermostat Assembly

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				



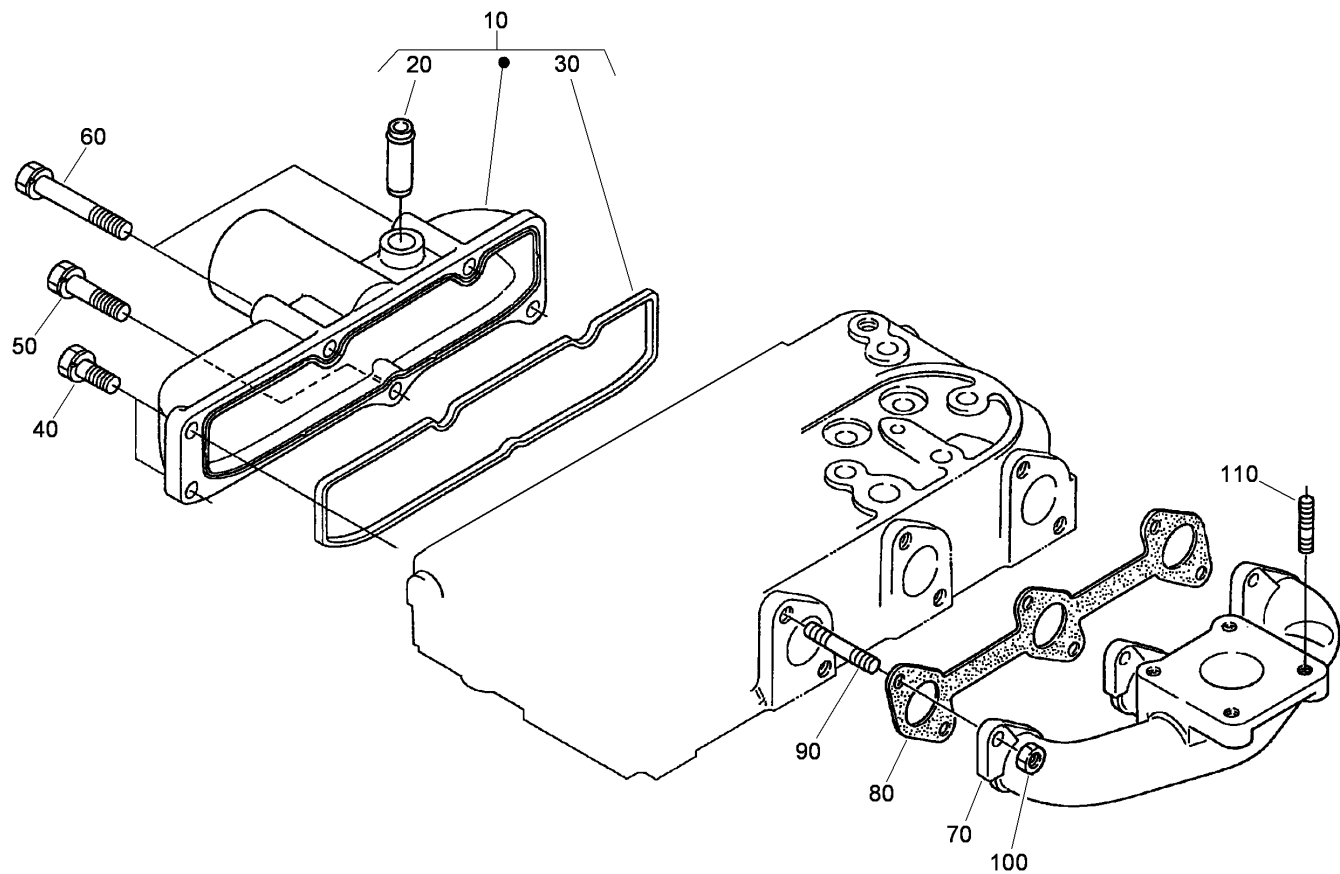
Water Pump Assembly

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				



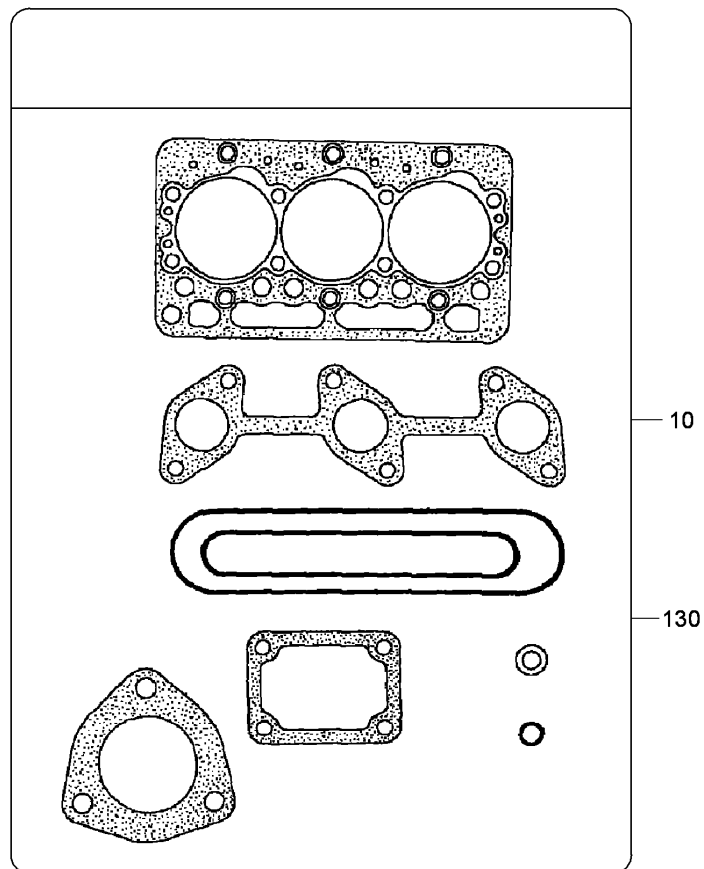
Valve and Rocker Arm Assembly

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				



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	99-8327	1	Gasket-Manifold, Exhaust				
90	98-9588	6	Stud				
100	98-9665	6	Nut				
110	98-7769	4	Stud				



Upper and Lower Gasket Kits

Ref	Part No.	Qty.	Description
10	107-7848	1	Upper Gasket Kit
130	107-9095	1	Lower Gasket Kit

Attachments and Accessories

For 30344 - Groundsmaster 3280-D 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 Purpose Grease	108-1190
Wheel	108-6563
Wheel And Tire ASM (Wide Tire Option)	108-6598
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
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

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