



Groundsmaster® 3500-D

Model No. 30821 - 220000001 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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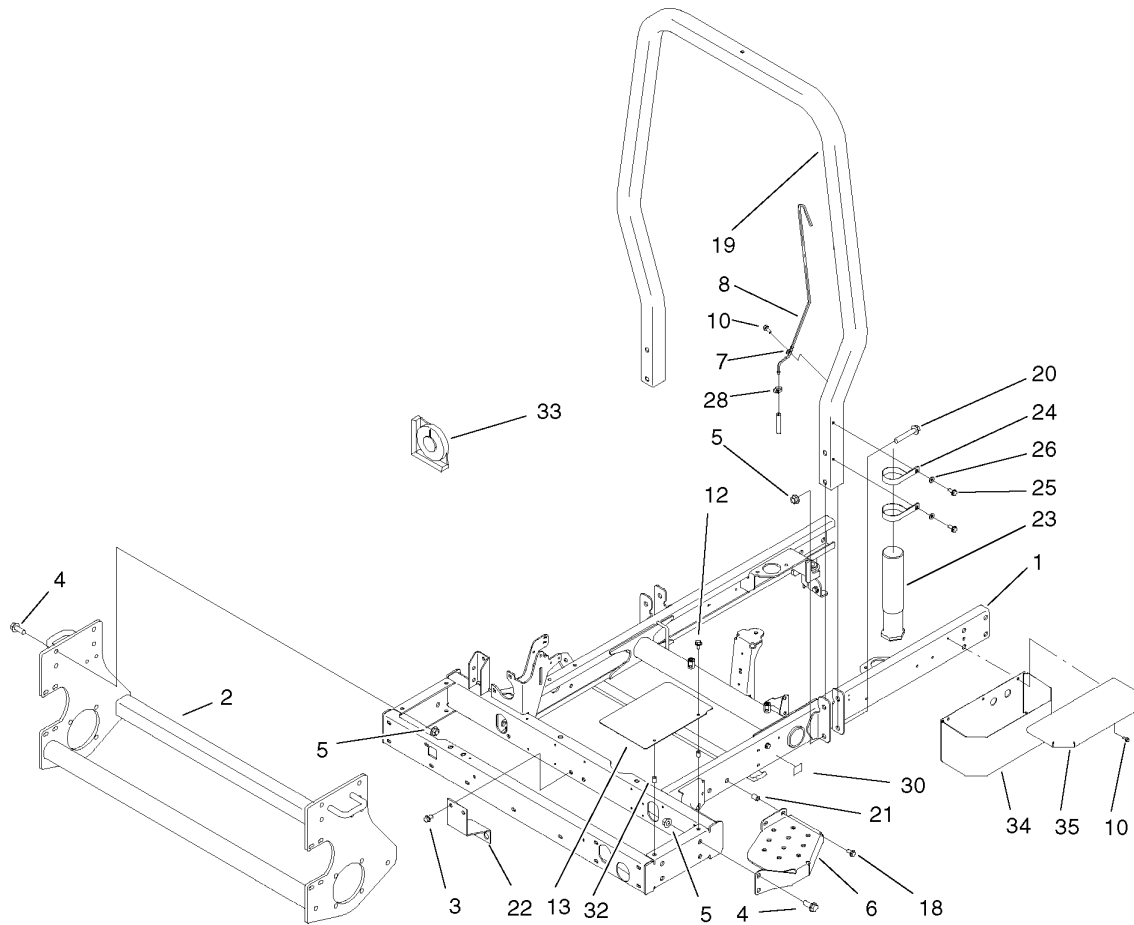
Part Description Abbreviations

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

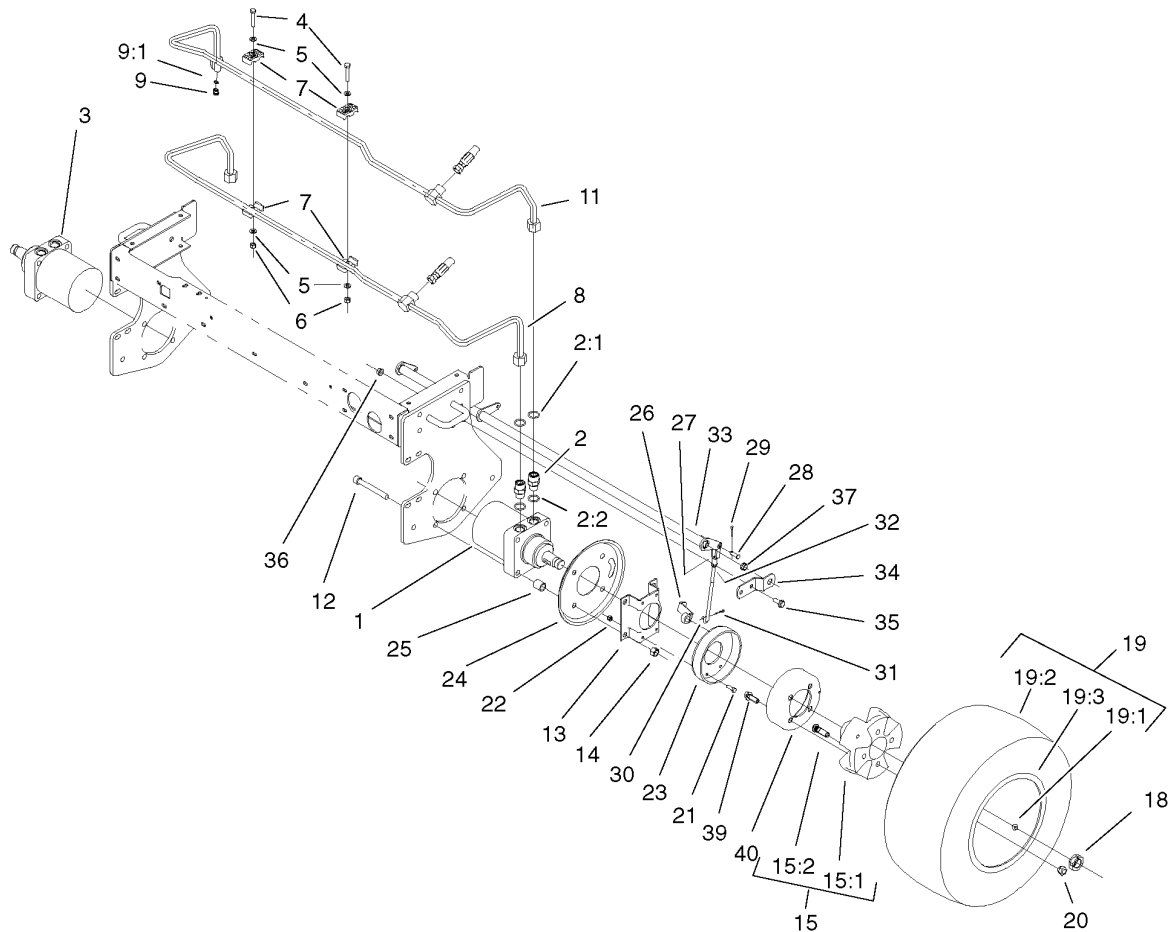
- ❶** Not serviced separately
- ❷** * Not Illustrated



Frame and Platform Assembly

Ref	Part No.	Qty.	Description
1	99-3610-03	1	Frame
2	95-8568-03	1	Frame-Lower
3	3274-80	2	Screw-HH
4	3234-38	8	Screw-HHF
5	32128-49	12	Nut-HHF
6	99-3375-03	1	Step
7	2412-72	3	Clip-Closed, Insulated
8	95-8615	1	Tube-Breather
10	32144-10	11	Screw-HWH
12	3234-4	2	Screw-HHF
13	104-0468-01	1	Cover-Frame
18	3234-5	2	Screw
19	99-3350-03	1	Tube-ROPS
20	3234-40	4	Screw-Hfh
21	32148-8	2	Insert-Threaded
22	95-8598-03	1	Bracket-Bulkhead, Scissor
23	74-0720	1	Tube-Manual
24	2412-133	2	R-Clamp
25	32144-70	2	Screw-HH
26	3256-23	2	Washer-Flat
28	2412-108	1	Clamp-Worm
30	105-4674	1	Decal-Noise, Intl
32	32148-6	2	Nut-Insert
33	99-3503	1	Indicator-Angle

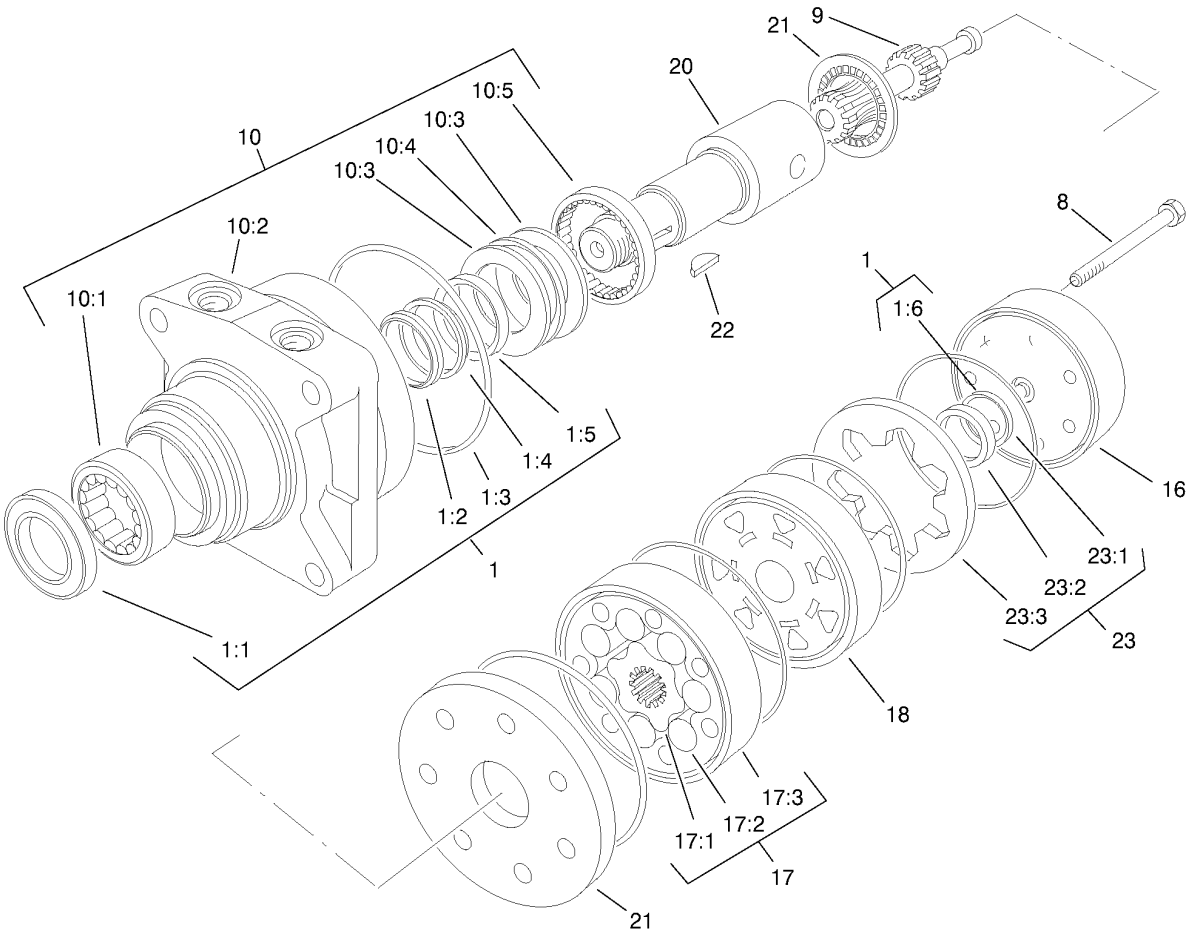
Ref	Part No.	Qty.	Description
34	104-4634-03	1	Toolbox ASM
35	104-4633-03	1	Toolbox Cover ASM



Front Wheel and Brake Assembly

Ref	Part No.	Qty.	Description
1	75-9990	1	HYD Motor ASM
2	340-7	4	Adapter
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	95-8693	1	HYD Motor ASM
4	322-9	2	Screw-HH
5	3256-23	4	Washer-Flat
6	3296-29	2	Nut-Lock, NI
7	56-7971	4	Clamp-Tube
8	95-8783	1	Tube ASM
9	353-990	1	Plug
9:1	237-78	1	O-Ring
11	95-8784	1	Tube ASM
12	3274-99	8	Screw-HSH
13	84-2000-03	2	Bracket-Brake
14	3296-23	8	Nut-Lock, NI
15		2	Wheel Hub / Stud ASM
15:1	104-0462-03	1	Hub-Wheel
15:2	10-6830	4	Stud-Type, Drive
18	26-3790	2	Nut-Lock
19		2	Tire & Wheel ASM
19:1	232-27	1	Stem-Valve
19:2	104-0451	1	Tire
19:3	104-0452	1	Rim-Wheel

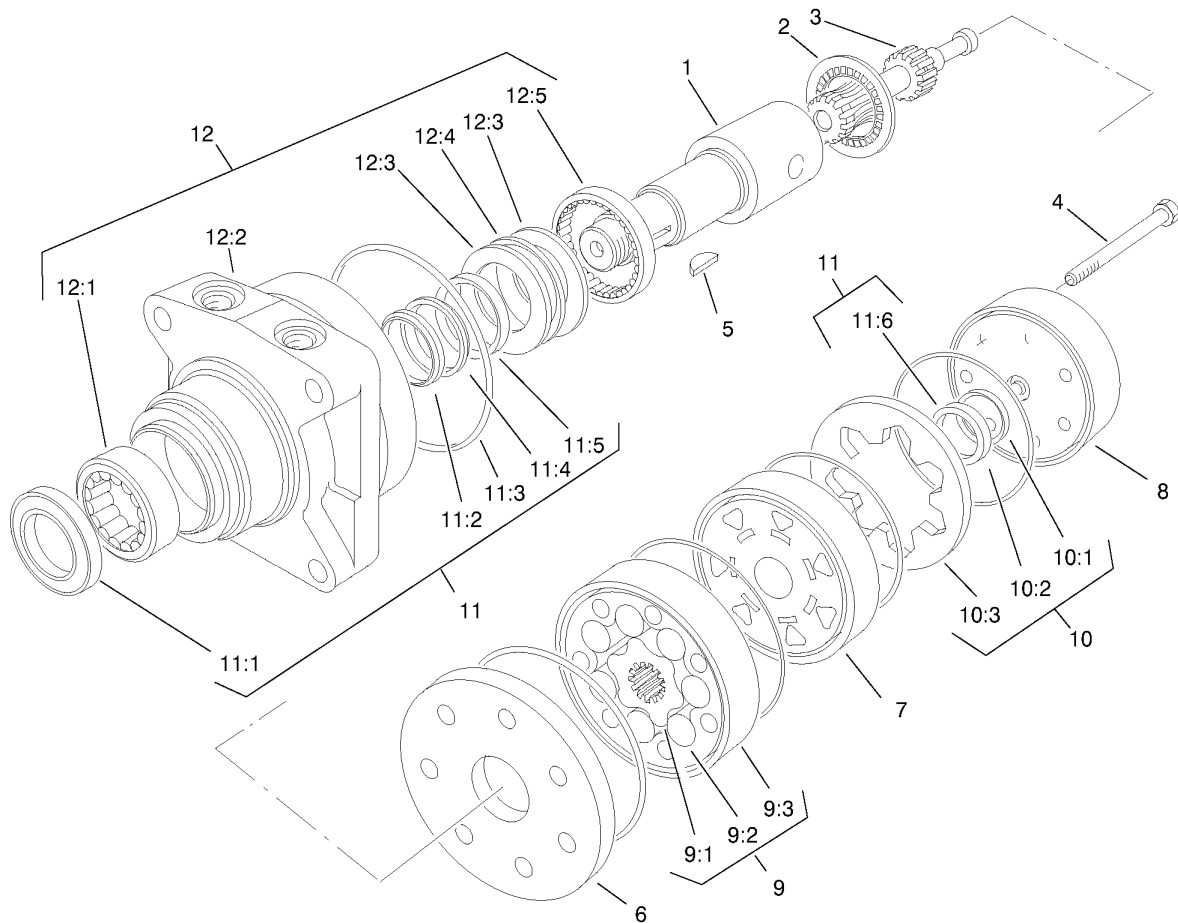
Ref	Part No.	Qty.	Description
20	242-50	8	Nut-Lug
21	321-5	8	Screw-HH
22	3296-42	8	Nut-Lock, NI
23	104-7705	2	Brake ASM
24	104-0485-03	2	Shield-Wheel
25	92-1715	8	Spacer
26	93-6850	2	Lever-Brake
27	282-2	2	Yoke
28	283-1	2	Pin-Yoke
29	3272-10	2	Pin-Cotter
30	104-4627	2	Rod-Adjusting
31	3272-6	2	Pin-Cotter
32	3220-2	2	Nut
33	104-4625-03	1	Brake Pivot Shaft ASM
34	95-8683	2	Bracket-Pivot, Brake
35	3234-11	4	Screw-HHF
36	32128-43	4	Nut-Flange
37	256-156	2	Bushing-Flange
39	3274-105	8	Screw-HSBH
40	104-4809	2	Drum-Brake



Hydraulic Wheel Motor Assembly No. 75-9990

Ref	Part No.	Qty.	Description
1	76-0800	1	Kit-Seal
1:1		1	Seal-Dirt & Water
1:2		1	Washer-Back-Up
1:3		5	Ring-Seal
1:4		1	Washer-Back-Up
1:5		1	Seal-Inner
1:6		1	Commutator
2		5	Seal Rings
3		1	Ring-Commutator, Bonded
4		1	Seal-Inner
5		1	Washer-Backup
6		1	Washer-Backup
7		1	Seal-Dirt & Water
8	76-1010	7	Screw
9	76-0960	1	Link-Drive
10	76-0810	1	Housing ASM
10:1		1	Bearing
10:2		1	Housing
10:3		2	Washer-Thrust
10:4		1	Bearing-Thrust
10:5		1	Bearing
11		1	Housing
12		1	Bearing
13		1	Thrust Bearing

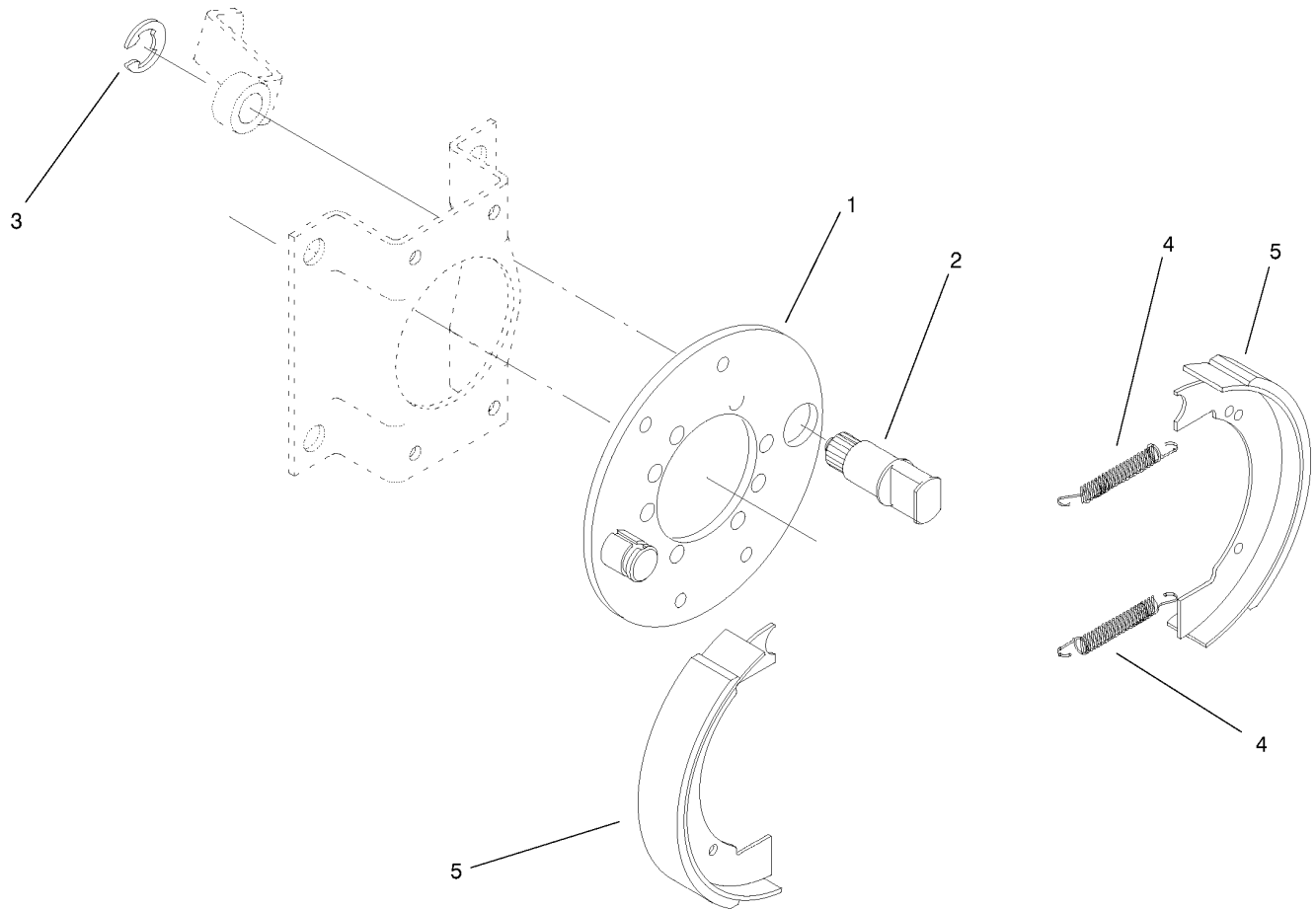
Ref	Part No.	Qty.	Description
14		1	Bearing
15		2	Thrust Washer
16	76-0940	1	End Cover ASM
17	76-0970	1	Set-Rotor
17:1		1	Rotor
17:2		7	Vane
17:3		1	Stator
18	76-0840	1	Manifold
19	76-0850	1	Bearing-Thrust
20	76-0860	1	Shaft-Coupling
21	76-0870	1	Plate-Wear
22	3257-42	1	Key-Woodruff
23	76-0880	1	Commutator ASM
23:1		1	Seal-Commutator
23:2		1	Commutator
23:3		1	Ring-Commutator



Hydraulic Motor Assembly No. 95-8693

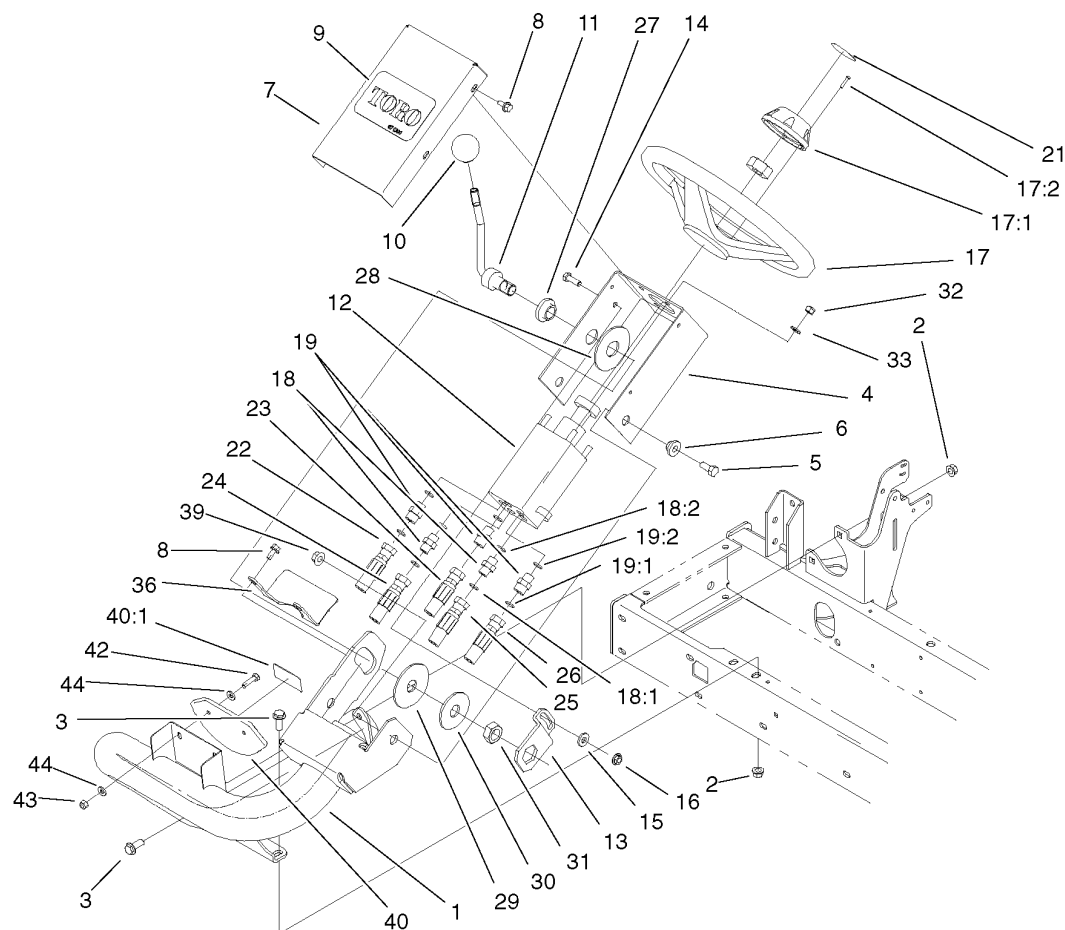
Ref	Part No.	Qty.	Description
1	76-0860	1	Shaft-Coupling
2	76-0850	1	Bearing-Thrust
3	76-0960	1	Link-Drive
4	76-1010	7	Screw
5	3257-42	1	Key-Woodruff
6	76-0870	1	Plate-Wear
7	99-3535	1	Manifold
8	76-0940	1	End Cover ASM
9	76-0970	1	Set-Rotor
●9:1		1	Rotor
●9:2		7	Vane
●9:3		1	Stator
10	76-0880	1	Commutator ASM
●10:1		1	Seal-Commutator
●10:2		1	Commutator
●10:3		1	Ring-Commutator
11	76-0800	1	Kit-Seal
●11:1		1	Seal-Dirt & Water
●11:2		1	Washer-Back-Up
●11:3		5	Ring-Seal
●11:4		1	Washer-Back-Up
●11:5		1	Seal-Inner
●11:6		1	Commutator
12	76-0810	1	Housing ASM

Ref	Part No.	Qty.	Description
●12:1		1	Bearing
●12:2		1	Housing
●12:3		2	Washer-Thrust
●12:4		1	Bearing-Thrust
●12:5		1	Bearing



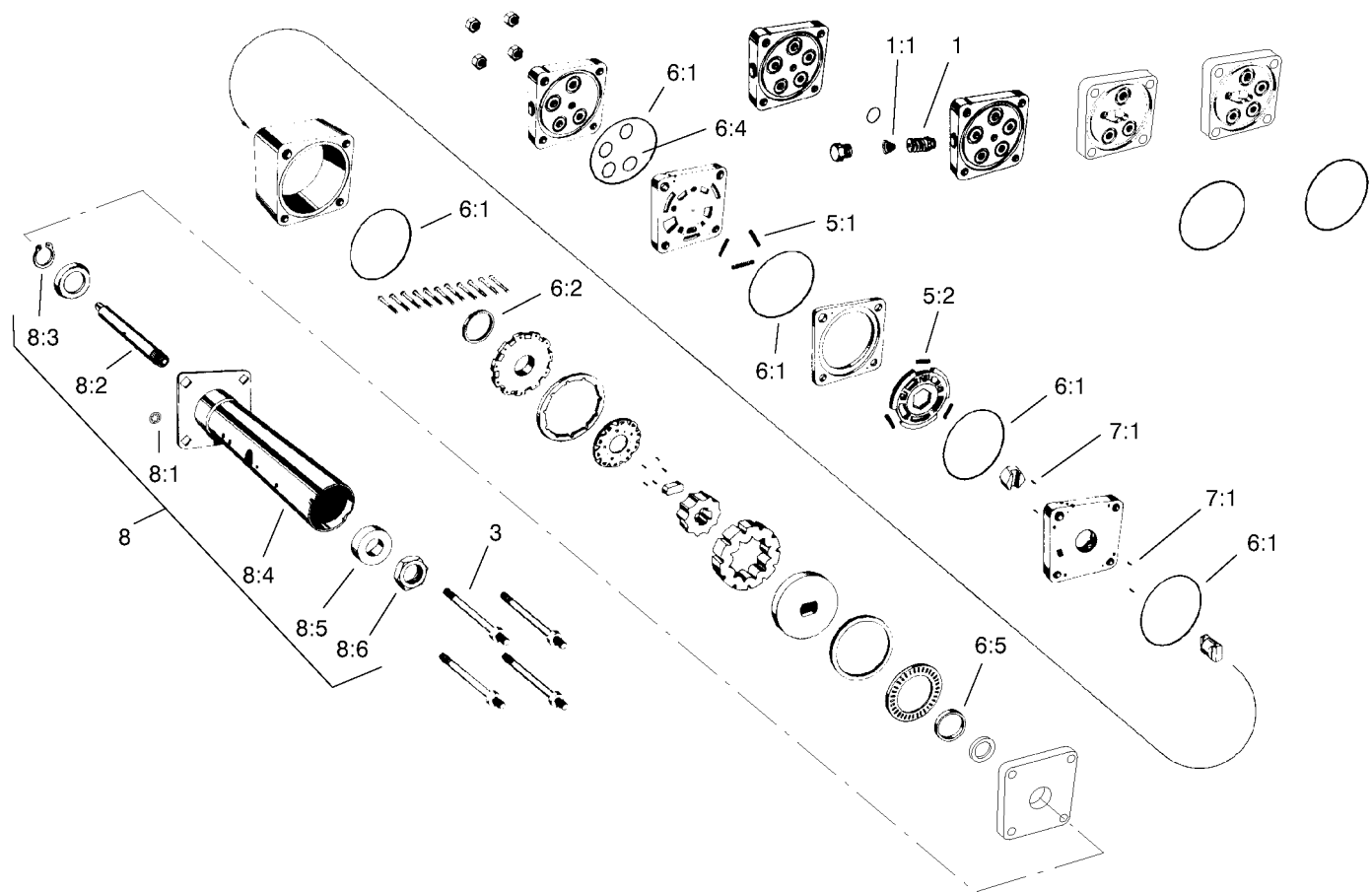
Brake Assembly No. 104-7705

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



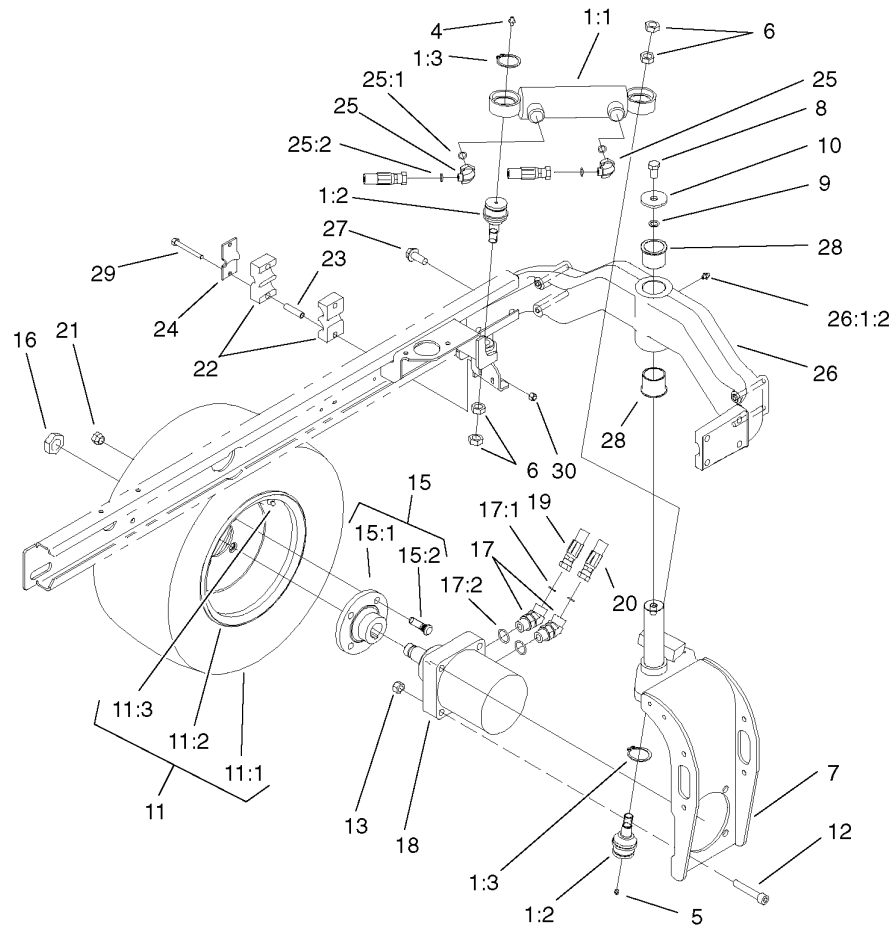
Steering Column Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	100-4896-01	1	Arm-Steering	19:2	237-42	1	O-Ring
2	32128-43	4	Nut-Flange	21	68-5370	1	Decal-Toro
3	3234-11	4	Screw-HHF	22	95-8842	1	Hose ASM
4	95-8793-01	1	Bracket-Valve, Steering	23	95-8843	1	Hose ASM
5	323-5	2	Screw-HH	24	100-4892	1	Hose ASM
6	93-5988	2	Hub-Pivot	25	100-4893	1	Hose ASM
7	95-8794-01	1	Cover-Valve, Steering	26	95-8846	1	Hose ASM
8	32144-10	5	Screw-HWH	27	99-3502	1	Boss
9	67-1300	1	Decal-Toro	28	31-0390	1	Disc-Friction
10	233-48	1	Knob	29	82-9010	1	Disc-Friction
11	95-8798-03	1	Lever-Steering	30	80-2930	1	Washer-Flat
12	104-0474	1	Control-Steering	31	3218-7	1	Nut-Jam
13	80-2880	1	Bracket-Tilt	32	3296-4	4	Nut-Lock, NI
14	322-5	1	Screw-HH	33	3256-23	4	Washer-Flat
15	3256-3	1	Washer-Flat	36	99-3405-01	1	Shield-Steering
16	32128-44	1	Nut	39	32128-21	2	Nut-HF
17	68-5130	1	Wheel-Steering	40	100-4929	1	Slope Indicator ASM
17:1	68-5140	1	Cap-Wheel, Steering	40:1	100-4837	1	Decal-Danger
17:2	32144-21	1	Screw	40:1	100-4933	1	Decal-Danger
18	340-1	2	Adapter	42	321-7	2	Screw-HH
18:1	237-35	1	O-Ring	43	3296-42	2	Nut-Lock, NI
18:2	237-42	1	O-Ring	44	3256-22	4	Washer-Flat
19	340-2	3	Fitting-HYD, Straight				
19:1	237-22	1	O-Ring				



Steering Control Assembly No. 104-0474

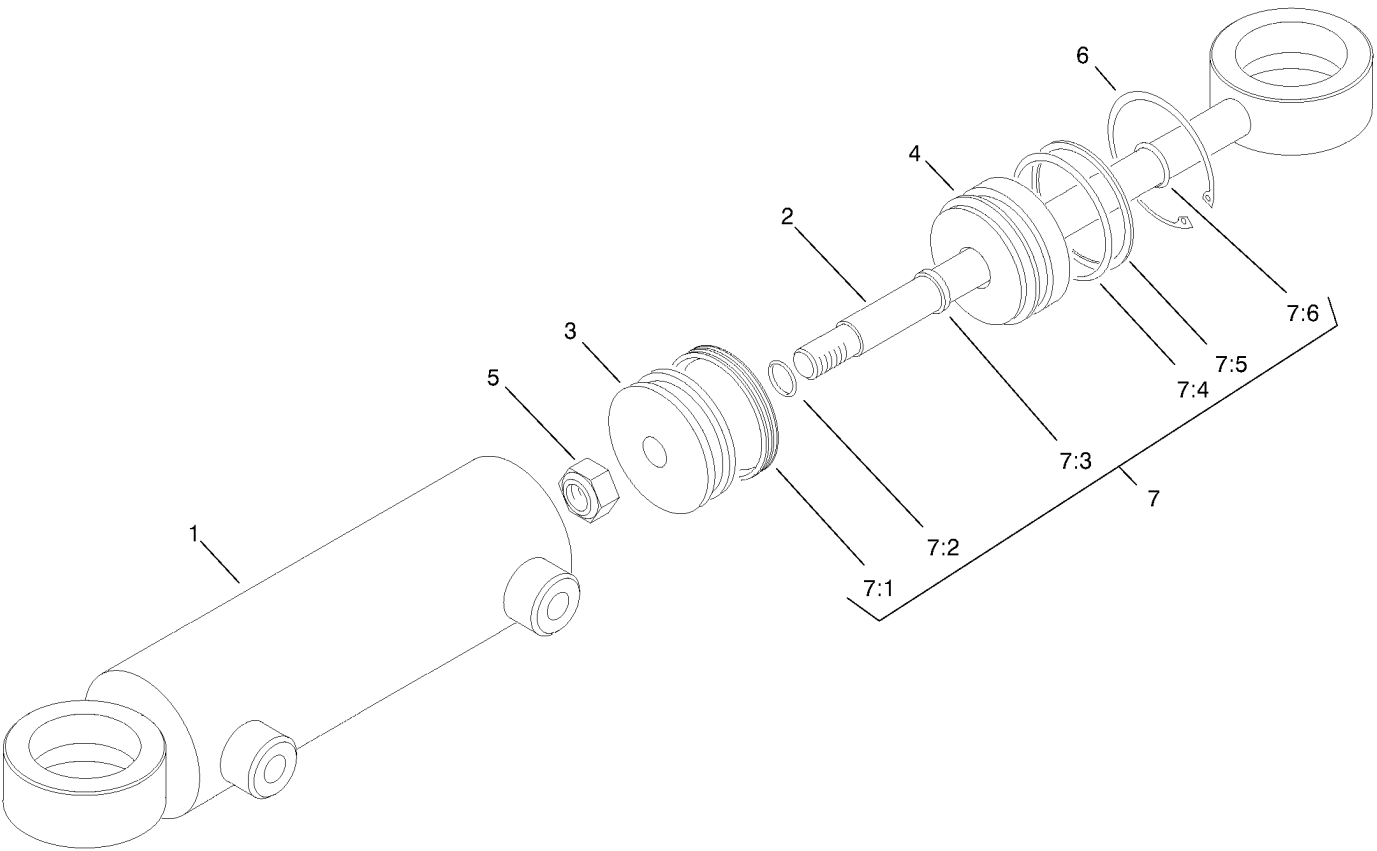
Ref	Part No.	Qty.	Description				
1	99-3523	1	Cartridge-Valve, Relief				
1:1		1	Spring-Coil				
3	99-3524	4	Bolt-Special				
5	66-9970	1	Kit-Spring				
5:1		3	Spring				
5:2		3	Spring				
6	66-9980	1	Kit-Seal				
6:1		5	Ring-Seal				
6:2		1	Seal-Commutator				
6:5		1	Seal-Face				
7	66-9990	1	Kit-Roller, Needle				
7:1		9	Pin-Alignment				
8	104-0475	1	Column ASM				
8:1	92-7316	4	Nut-Push On				
8:2		1	Shaft-Input				
8:3		1	Ring-Retaining				
8:4		1	Upper Cover & Jacket				
8:5		1	Bushing				
8:6	47-6990	1	Nut				



Rear Fork and Tire Assembly

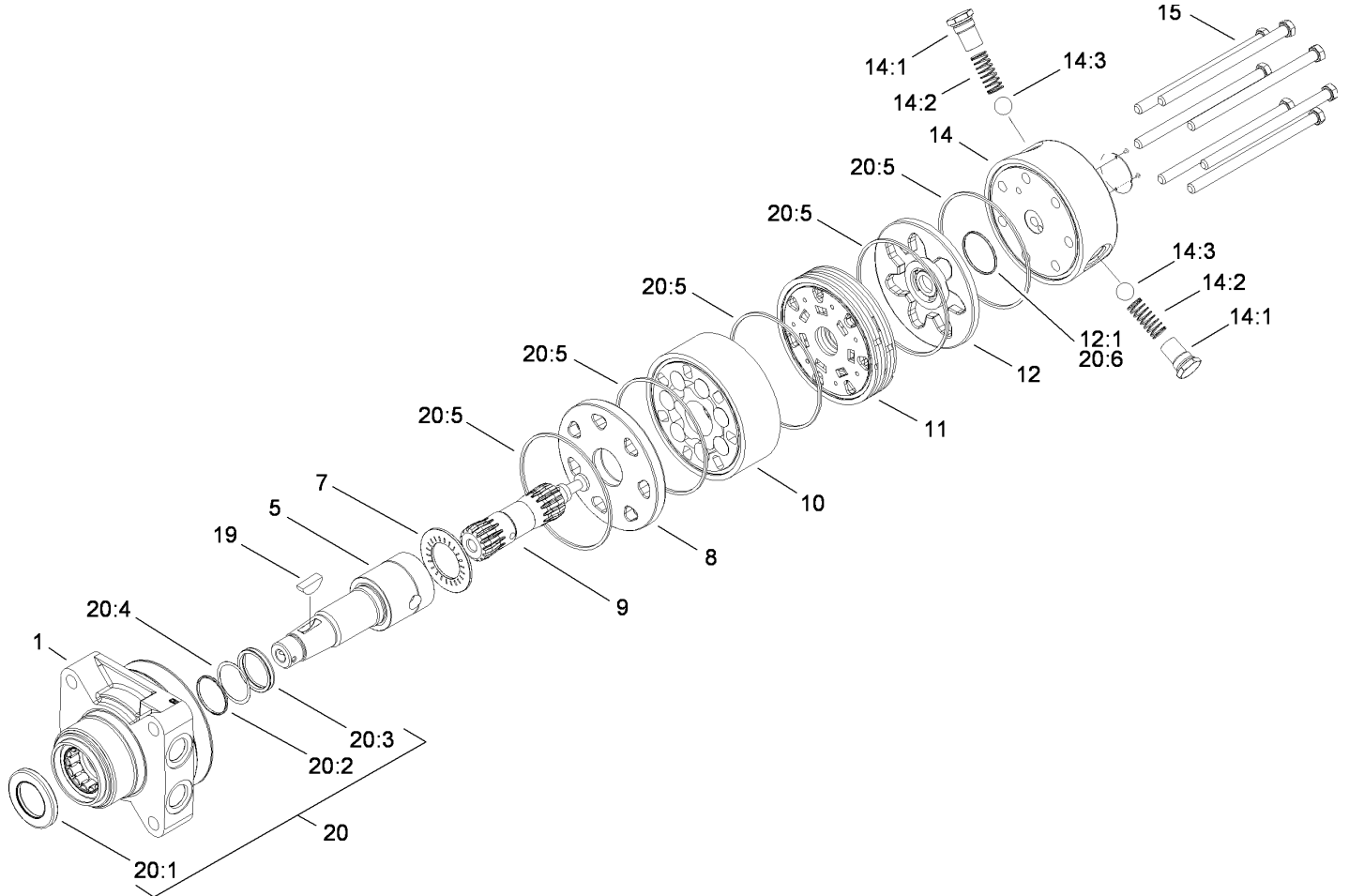
Ref	Part No.	Qty.	Description
❶ 1		1	Steering Cylinder/Balljoint ASM
1:1	94-8141	1	HYD Cylinder ASM
1:2	92-5838	2	Joint-Ball
1:3	32151-104	2	Ring-Retaining, EXT
4	302-5	1	Fitting-Grease
5	302-59	1	Plug-Threaded
6	3220-6	4	Nut-Jam
7	95-8905-01	1	Fork-Rear
8	325-3	1	Screw-HH
9	3255-2	1	Washer-Lock/EXT
10	75-7730	1	Washer-Thrust
❶ 11		1	Tire & Wheel ASM
11:1	95-8656	1	Tire
11:2	95-8657	1	Rim-Wheel
11:3	232-27	1	Stem-Valve
12	3274-93	4	Screw-HSH
13	3296-23	4	Nut-Lock, NI
❶ 15		1	Wheel Hub / Stud ASM
15:1	10-6870-03	1	Hub-Wheel
15:2	10-6830	4	Stud-Type, Drive
16	26-3790	1	Nut-Lock
17	340-14	2	Fitting-HYD, 45Ø
17:1	237-65	1	O-Ring
17:2	237-80	1	O-Ring

Ref	Part No.	Qty.	Description
18	95-8694	1	HYD Motor ASM
19	105-1213	1	Hose ASM
20	105-1212	1	Hose ASM
21	242-50	4	Nut-Lug
22	82-8170	2	Clamp
23	93-7960	2	Spacer
24	93-7961	1	Clamp-Drain, Case
25	340-132	2	Fitting-HYD, 90Ø
25:1	237-78	1	O-Ring
25:2	237-21	1	O-Ring
26	18-3979-03	1	Rear Casting ASM
❶ 26:1		1	Rear Casting ASM
26:1:2	302-5	1	Fitting-Grease
27	3234-38	8	Screw-HHF
28	95-8805	2	Bushing
29	322-13	2	Screw-HH
30	3296-29	2	Nut-Lock, NI



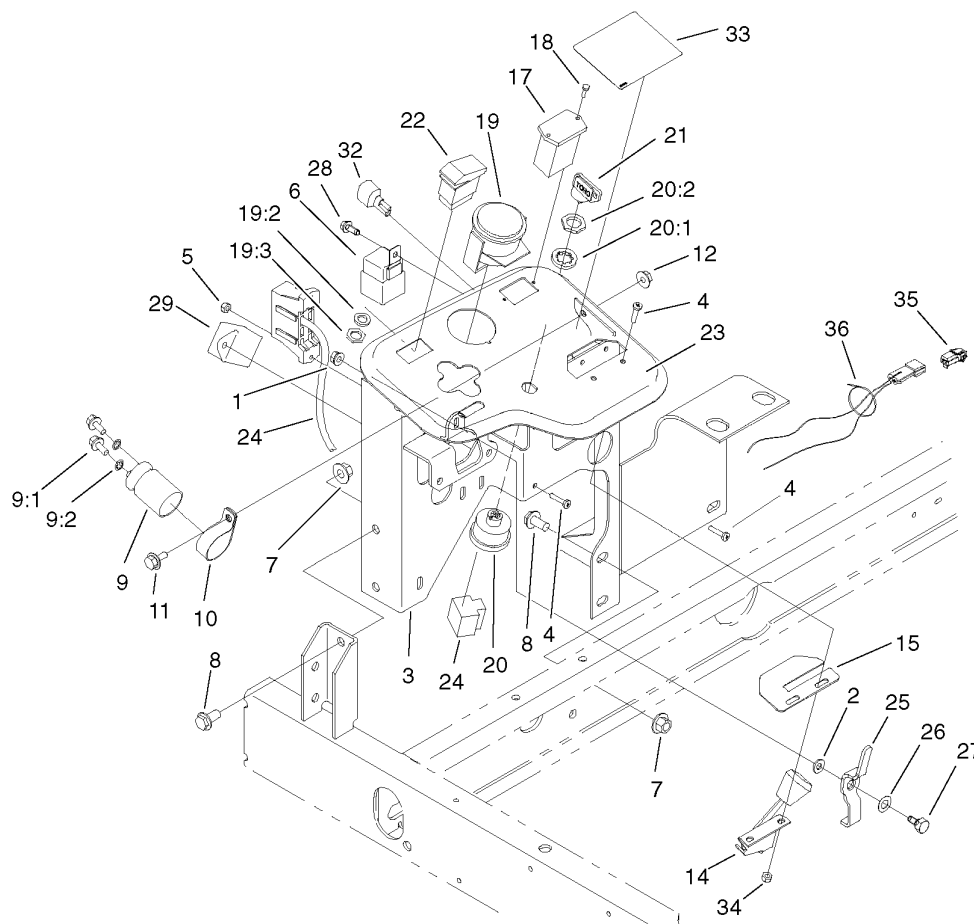
Hydraulic Cylinder Assembly No. 94-8141

Ref	Part No.	Qty.	Description				
1	94-9955	1	Barrel ASM				
2	94-9956	1	Piston Rod ASM				
3	94-9957	1	Piston				
4	94-9958	1	Gland-Cylinder				
5	32152-10	1	Locknut				
6	32120-8	1	Ring-Snap				
7	86-5390	1	Kit-Repair, Seal				
●7:1		1	Uniring				
●7:2		1	O-Ring				
●7:3		1	Seal-Rod				
●7:4		1	O-Ring				
●7:5		1	Ring-Backup				
●7:6		1	O-Ring				



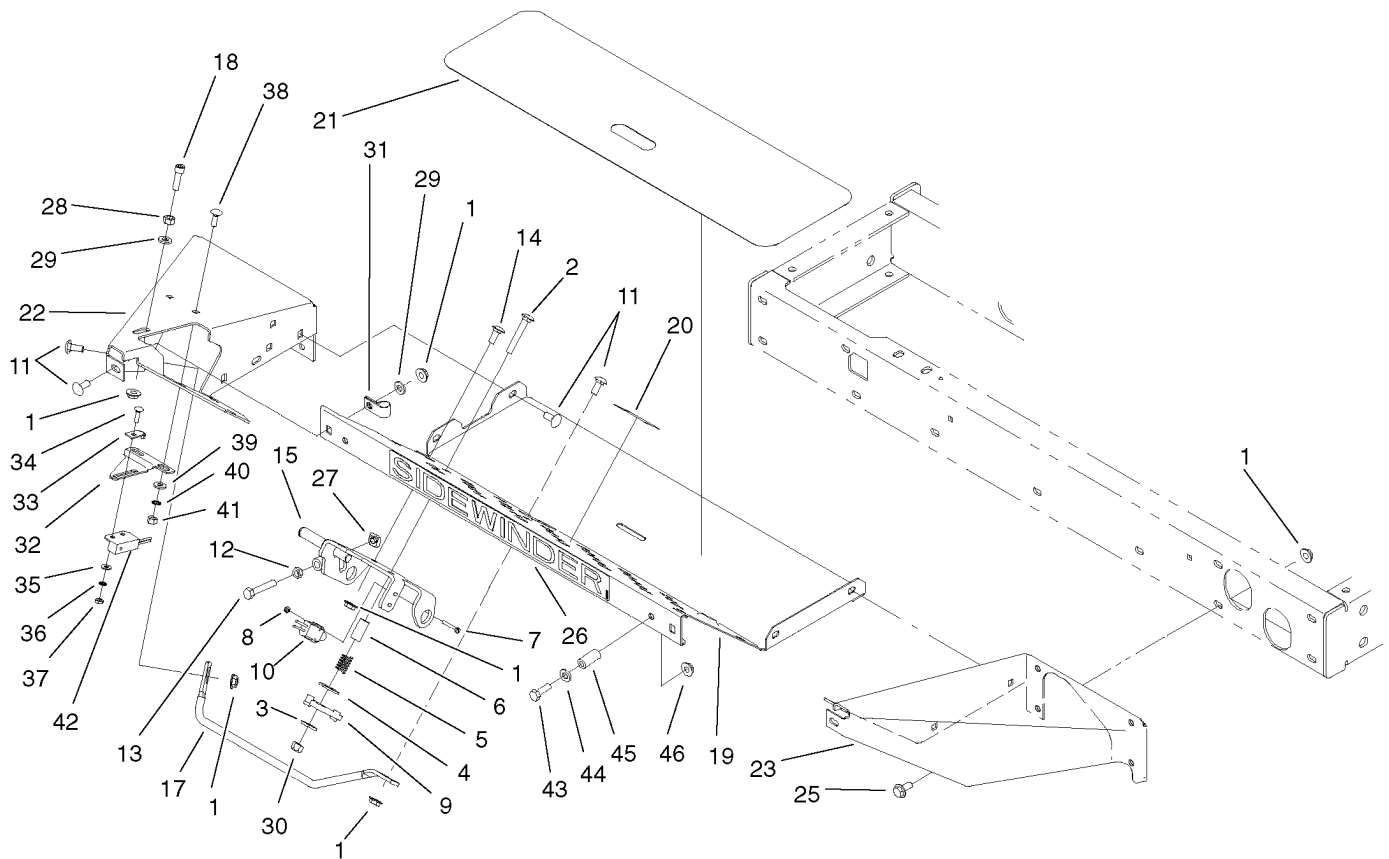
Hydraulic Motor Assembly No. 95-8694

Ref	Part No.	Qty.	Description
1	76-0810	1	Housing ASM
5	99-3090	1	Shaft-Coupling
7	76-0850	1	Bearing-Thrust
8	76-0870	1	Plate-Wear
9	99-3537	1	Link-Drive
10	99-3539	1	Set-Rotor
11	99-3535	1	Manifold
12	76-0880	1	Commutator ASM
12:1		1	Seal-Commutator
14	99-3538	1	End Cover ASM
14:1		1	Spring Cap And O-Ring ASM
14:2	99-3541	1	Spring
14:3	99-3540	1	Ball
15	99-3536	7	Screw-HH
19	3257-42	1	Key-Woodruff
20	94-8178	1	Seal Kit
20:1		1	Seal-Dirt And Water
20:2		1	Backup-Ring
20:3		1	Seal-Shaft
20:4		1	Washer-Back Up
20:5		5	Seal-Square, Ring (Inner)
20:6		1	Seal-Commutator



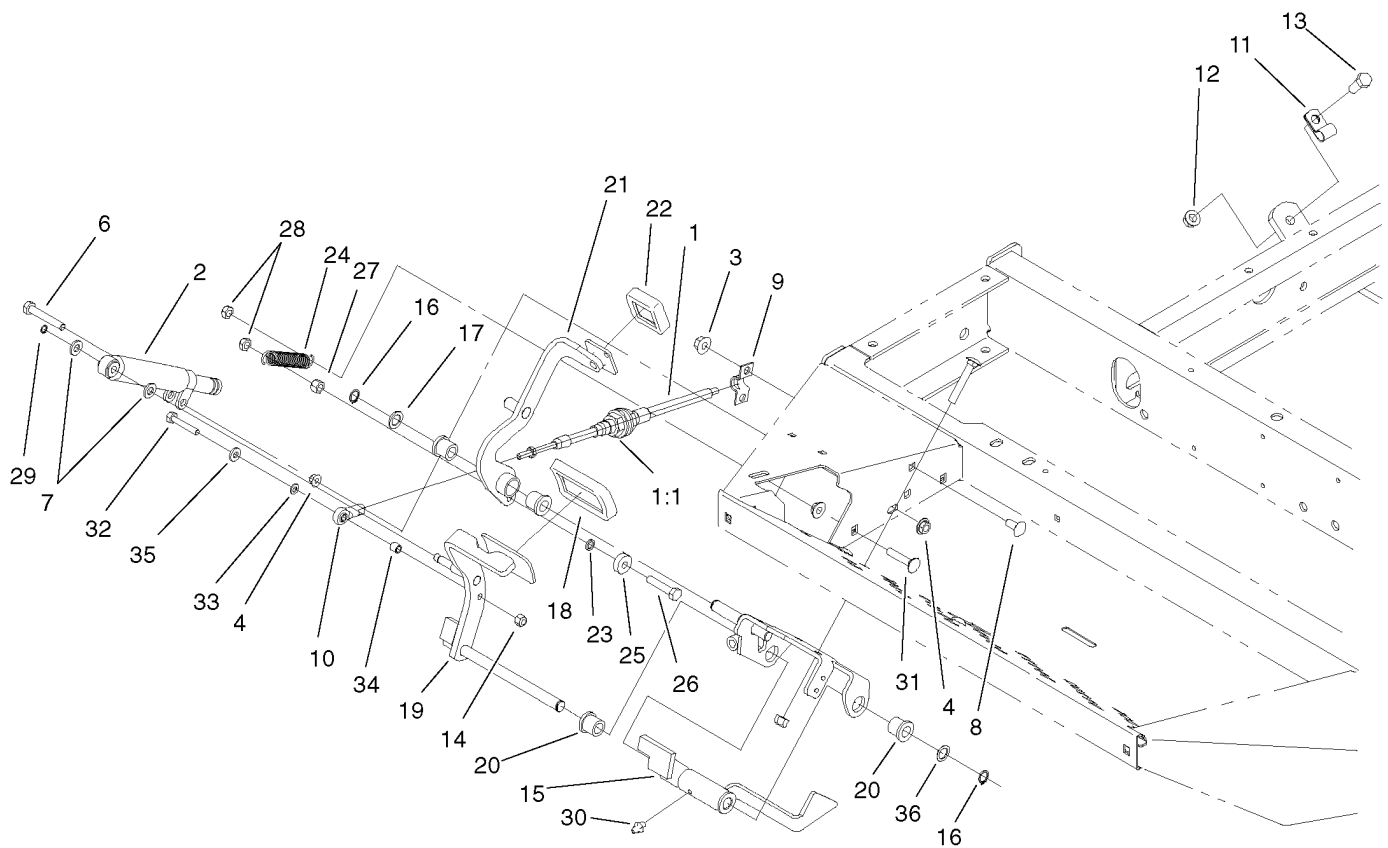
Control Panel Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	32128-32	1	Nut-HHF	20:2	218-461	1	Nut-HH
2	3256-22	1	Washer-Flat	21	63-8360	2	Key-Ignition
3	95-8712-03	1	Panel-Control	22	95-8999	1	Switch
4	3250-27	4	Screw-PPH	23	100-4834	1	Decal-Console
5	3296-2	2	Nut-Lock	24	100-4823	1	Harness-Wire
6	70-1480	4	Relay	25	99-3401-03	1	Lever-Valve, Lock
7	32128-43	5	Nut-Flange	26	3290-477	1	Washer-Curved
8	3234-1	5	Screw-HHF	27	63-3410	1	Screw-Shoulder
9	37-2690	1	Capacitor	28	32144-10	5	Screw-HWH
9:1	3252-18	2	Screw	29	99-3463	1	Controller-Glow
9:2	3254-1	2	Washer-Lock, Internal	32	100-4918	4	Diode
10	2412-74	1	R-Clamp	33	99-3558	1	Decal-Console, Ce
11	3234-4	1	Screw-HHF	34	3290-148	2	Nut-Hex (W/Washer)
12	32128-33	1	Nut-HF	35	104-4875	1	Harness-Wire, Jumper
14	95-8855	1	Control-Throttle	36	3290-378	1	Tie-Cable
15	104-0421	1	Plate-Stop, Throttle				
17	75-6820	1	Hourmeter				
18	32144-18	2	Screw-HH				
19	93-7053	1	Cluster-Lamp, Warning				
●*19:1	219-17	4	Bulb				
19:2	3254-1	1	Washer-Lock, Internal				
19:3	3217-26	1	Nut-Hex				
20	88-9830	1	Key Switch ASM				
20:1	3254-5	1	Washer-Lock, Internal				



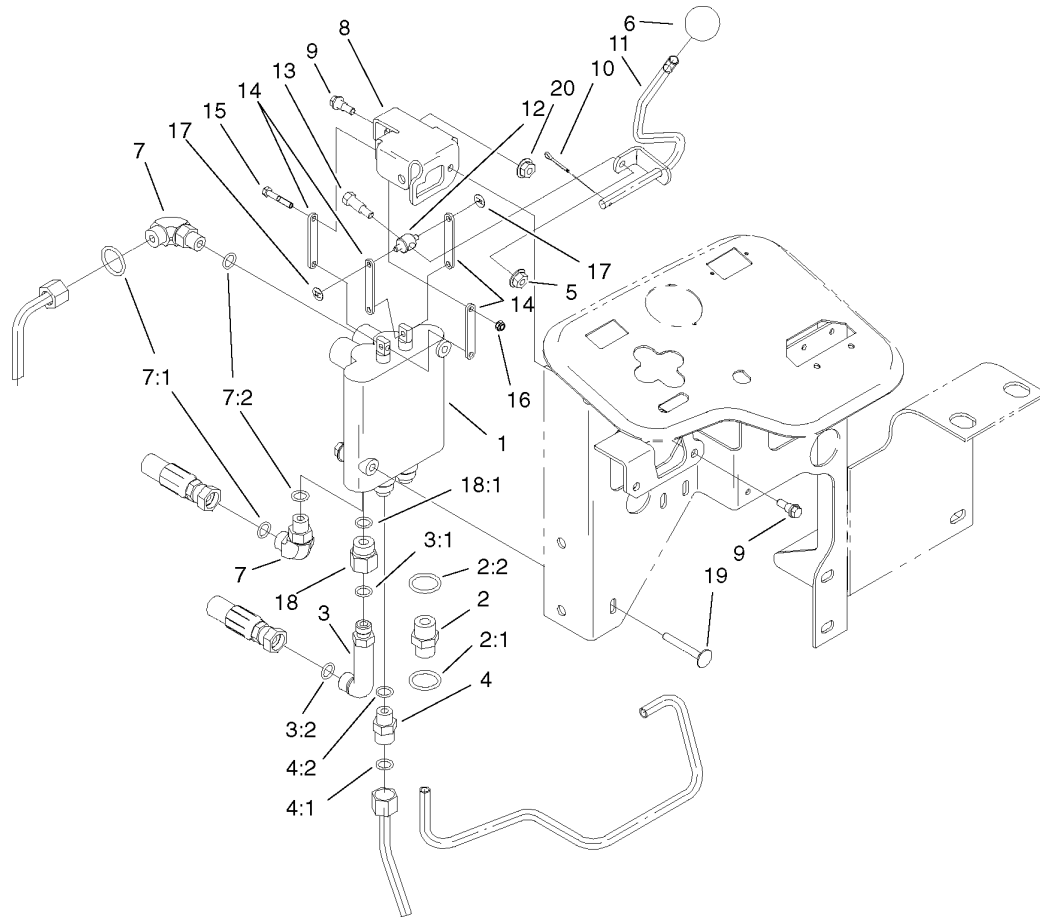
Front Platform Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	32128-44	22	Nut	27	99-3565	1	Nut-Square
2	3230-6	1	Screw-CARR	28	3217-6	1	Nut-Hex
3	3256-3	1	Washer-Flat	29	3256-23	2	Washer-Flat
4	3256-40	1	Washer-Flat	30	3296-29	1	Nut-Lock, NI
5	65-9940	1	Spring	31	2412-103	1	Clamp
6	95-8866	1	Tube-Arm, Rocker	32	100-4871	1	Bracket-Switch, Neutral
7	32105-9	2	Screw	33	100-4872	1	Plate-Switch, Neutral
8	3296-9	2	Nut-Lock NI	34	3229-20	1	Screw-CARR
9	99-3593	1	Arm-Rocker	35	3256-14	1	Washer-Flat
10	95-8900	1	Switch	36	3255-17	1	Washer-Lock/EXT
11	3230-1	9	Screw-CARR	37	3296-2	1	Nut-Lock
12	3218-2	1	Nut-Jam	38	3229-1	2	Screw-CARR
13	322-41	1	Screw-HH	39	3256-22	2	Washer-Flat
14	3230-23	2	Screw-CARR	40	3255-7	2	Washer-Lock/EXT
15	95-8869-03	1	Bracket-Pedal, Traction	41	3217-5	2	Nut-Hex
17	95-8893	1	Bar-Deflector	42	100-1270	1	Switch-Proximity
18	3274-22	1	Screw-HSH	43	323-9	2	Screw-HH
19	95-8610-01	1	Plate-Floor	44	3256-4	2	Washer-Flat
20	99-3444	1	Decal-Mow/Transport	45	104-4613	2	Tube-Latch
21	99-3478	1	Tread-Foot	46	32128-43	2	Nut-Flange
22	100-4884-01	1	Support-Floor, RH				
23	95-8612-01	1	Bracket-Floor Plate, LH				
25	3234-5	10	Screw				
26	99-3388	1	Decal-Sidewinder				



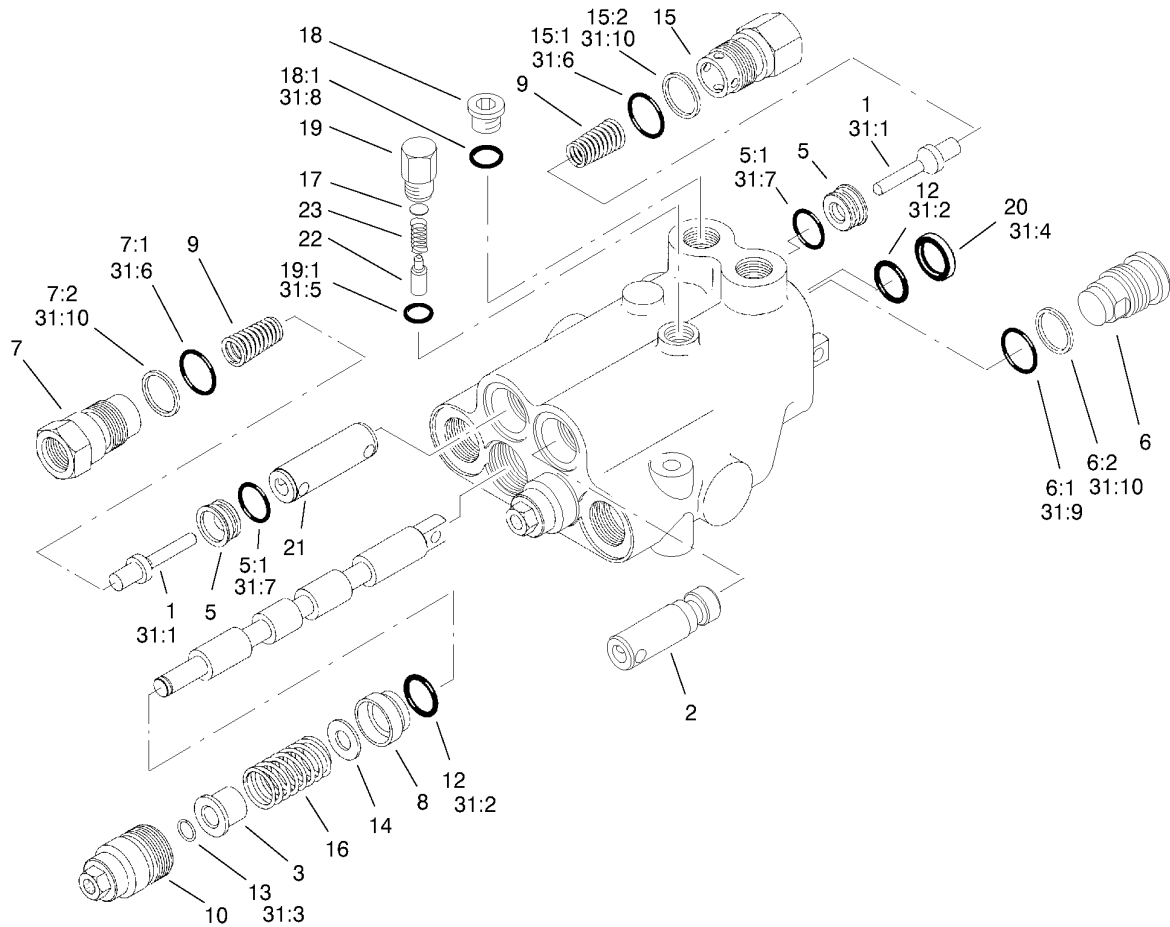
Traction Pedal Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	100-4815	1	Cable-Control, Traction	25	251-259	1	Bearing
1:1	3220-1	2	Nut-Jam	26	322-7	1	Screw-HH
2	76-8870	1	Lever Damper ASM	27	3296-29	1	Nut-Lock, NI
3	32128-20	2	Nut-HF	28	3296-47	2	Nut-Lock, NI
4	32128-44	3	Nut	29	32151-3	1	Ring-Grip, Ex
6	322-10	1	Screw-HH	30	302-5	1	Fitting-Grease
7	3256-23	2	Washer-Flat	31	3230-27	1	Screw-CARR
8	3230-23	2	Screw-CARR	32	321-9	1	Screw-HH
9	93-2092	1	Clamp-Cable	33	33093-00	1	Washer-Flat
10	2411-41	1	Joint-Ball, Superior	34	99-3545	1	Spacer
11	2412-10	1	R-Clamp	35	3256-22	1	Washer-Flat
12	32128-43	1	Nut-Flange	36	73-0040	4	Washer-Thrust
13	323-6	1	Screw-HH				
14	3296-42	1	Nut-Lock, NI				
15	95-8861	1	Slide				
16	32151-84	2	Ring-Shaft, EXT				
17	41-8440	1	Washer				
18	74-9100	1	Pad-Pedal, Forward				
19	104-4852-03	1	Traction Pedal ASM				
20	256-243	2	Bearing-Flange				
21	99-3379	1	Pedal-Reverse				
22	74-9110	1	Pad-Pedal, Reverse				
23	75-5470	1	Spacer-Bearing				
24	99-3476	1	Spring-Extension				



Control Valve Installation Assembly

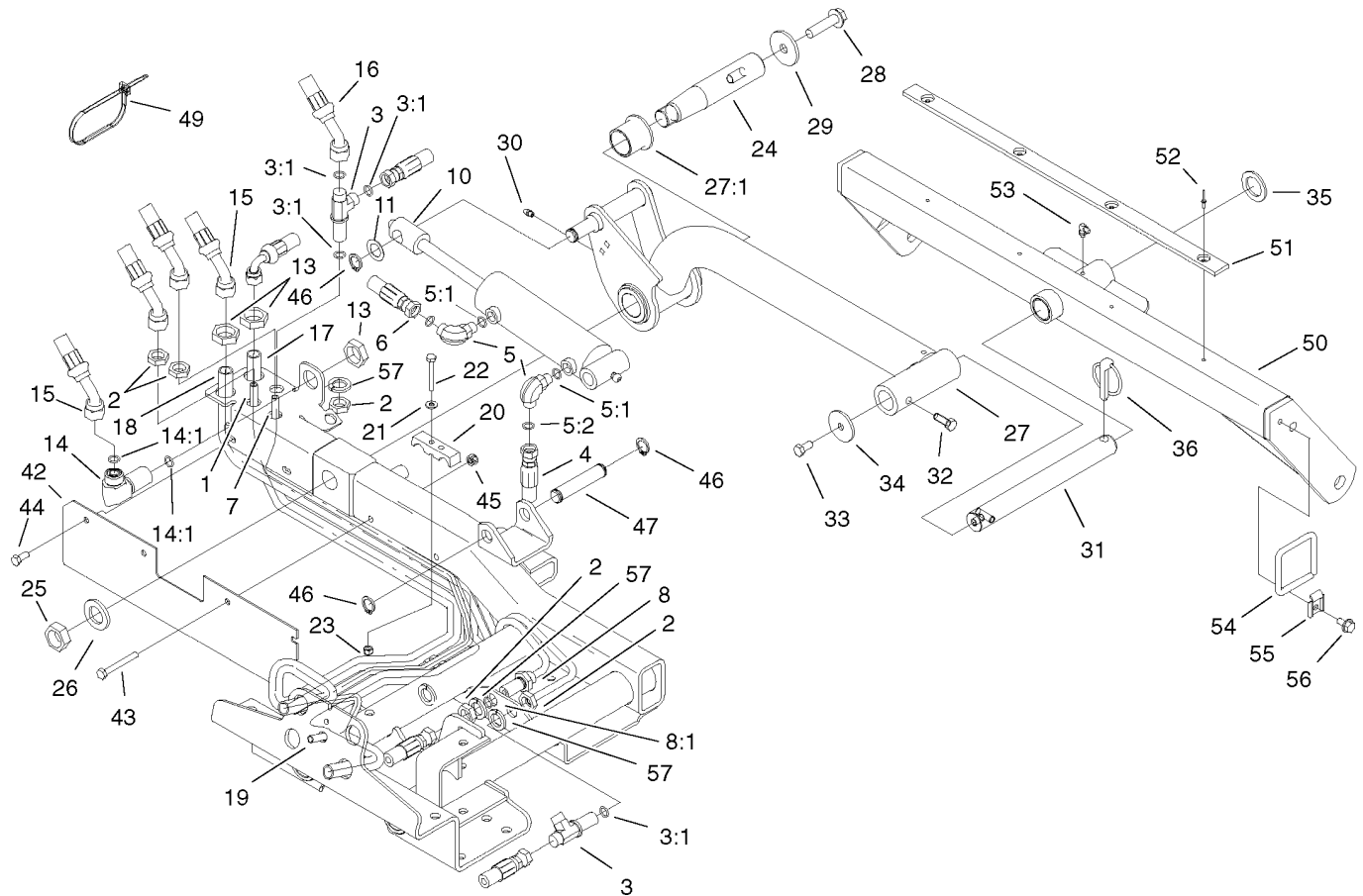
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	95-8581	1	Valve-2 Spool	17	93-3988	2	Pushnut-Tinnerman
2	340-3	1	Adapter	18	353-397	1	Reducer-Adapter
2:1	237-22	1	O-Ring	18:1	237-79	1	O-Ring
2:2	237-79	1	O-Ring	19	3230-33	2	Screw-CARR
3	69-4320	1	Fitting-90	20	32128-32	2	Nut-HHF
3:1	237-22	1	O-Ring				
3:2	237-42	1	O-Ring				
4	340-2	1	Fitting-HYD, Straight				
4:1	237-22	1	O-Ring				
4:2	237-42	1	O-Ring				
5	32128-33	3	Nut-HF				
6	233-42	1	Knob				
7	340-77	2	Fitting-HYD, 90°				
7:1	237-22	1	O-Ring				
7:2	237-42	1	O-Ring				
8	95-8633	1	Bracket-Valve, Actuator				
9	42-3560	2	Bolt-Shoulder				
10	3272-6	1	Pin-Cotter				
11	95-8635	1	Lever-Valve				
12	95-8638	1	Trunnion-Valve, Actuator				
13	92-8916	1	Bolt-Shoulder				
14	95-8634	4	Link				
15	87-5150	3	Bolt				
16	87-5140	3	Nut-Lock				



Control Valve Assembly No. 95-8581

Ref	Part No.	Qty.	Description
1	58-6290	3	Poppet
2	69-1840	1	Plunger
3	58-6310	2	Spacer
5	58-6330	3	Seat
5:1	58-6340	1	O-Ring
6	58-6350	1	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	99-3527	2	Plug ASM
7:1	60-5720	1	O-Ring
7:2	59-7730	1	Washer-Backup
8	58-6400	2	Bushing
9	69-1810	3	Spring
10	58-6420	2	Cap
12	58-6450	4	O-Ring
13	58-6460	2	Ring
14	65-2770	2	Washer
15	99-3526	1	Plug ASM
15:1	60-5720	1	O-Ring
15:2	59-7730	1	Washer-Backup
16	99-3531	2	Spring
17	60-6450	1	Disc
18	353-989	1	Plug-Hex, Hollow
18:1	237-42	1	O-Ring

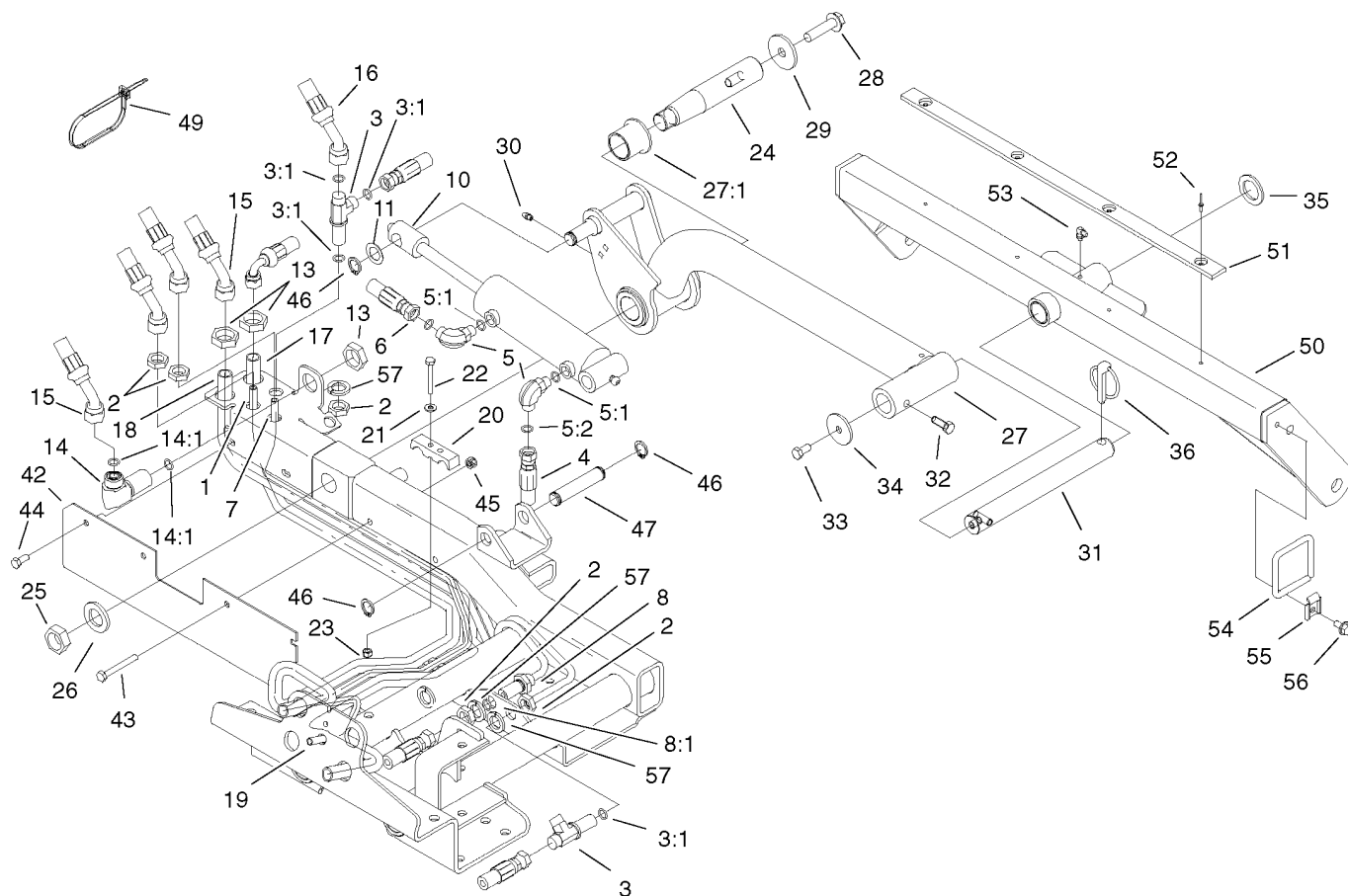
Ref	Part No.	Qty.	Description
19	58-6780	1	Plug
19:1	58-6790	1	O-Ring
20	58-6320	2	Wiper
21	99-3528	1	Plunger
22	58-6770	1	Plunger
23	58-6760	1	Spring
31	99-3530	1	Kit-Seal
31:1	58-6290	3	Poppet
31:2	58-6450	4	O-Ring
31:3	58-6460	2	Ring
31:4	58-6320	2	Wiper
31:5	58-6790	1	O-Ring
31:6	60-5720	2	O-Ring
31:7	58-6340	2	O-Ring
31:8	237-42	1	O-Ring
31:9	60-5720	2	O-Ring
31:10	59-7730	2	Washer-Backup



Rear Liftarm Assembly

Ref	Part No.	Qty.	Description
1	104-0402	1	Tube ASM
2	340-70	5	Locknut-Bulkhead
3	340-68	2	Fitting-Tee, Bulkhead
3:1	237-22	3	O-Ring
4	104-0407	1	Hose ASM
5	340-77	2	Fitting-HYD, 90°
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	100-4891	1	Hose ASM
7	104-0403	1	Tube ASM
8	340-71	1	Fitting-Straight, Bulkhead
8:1	237-22	2	O-Ring
10	95-8978	1	Cylinder-HYD
11	3-6498	1	Washer-Thrust
13	340-74	3	Locknut-Bulkhead
14	340-72	1	Union-Elbow Bulkhead, 90°
14:1	237-65	2	O-Ring
15	100-4879	2	Hose ASM
16	95-8825	1	Hose ASM
17	104-0401	1	Tube ASM
18	104-0400	1	Tube-ASM
19	104-0404	1	Tube ASM
20	99-3641	2	Clamp-Tube
21	3256-22	4	Washer-Flat

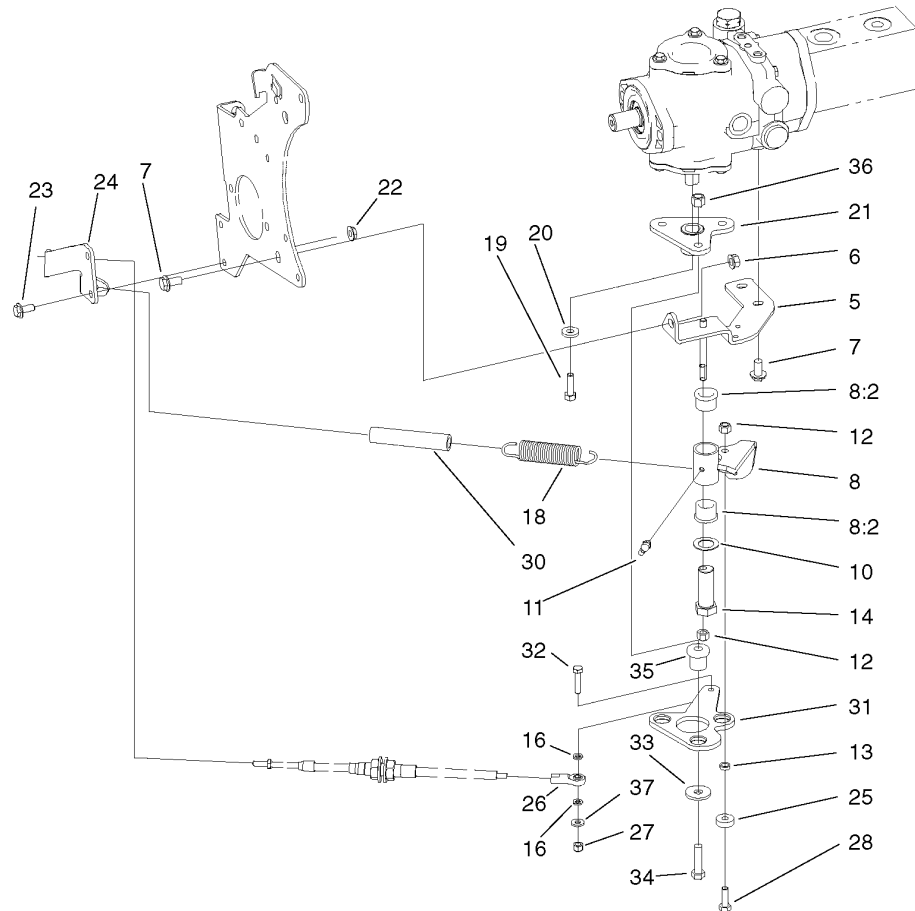
Ref	Part No.	Qty.	Description
22	321-11	2	Screw-HH
23	3296-42	2	Nut-Lock, NI
24	95-8990	1	Shaft-Pivot, Rear
25	3220-9	1	Nut-Jam
26	86-1480	1	Washer
27	100-4938	1	Rear Lift Arm ASM
27:1	69-6470	2	Bushing-Castor
28	3234-27	1	Screw-Flange
29	75-7730	1	Washer-Thrust
30	302-5	1	Fitting-Grease
31	100-4944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



Rear Liftarm Assembly (continued)

Ref	Part No.	Qty.	Description				
51	95-8936	1	Strip-Wear				
52	3269-18	4	Rivet-Pop, Steel				
53	302-60	1	Fitting-Lube				
54	104-4240	1	Link-Rear				
55	3-6657	1	Clip-Skid				
56	32144-14	1	Screw-HWH				
57	3254-7	3	Washer-Lock/Int				

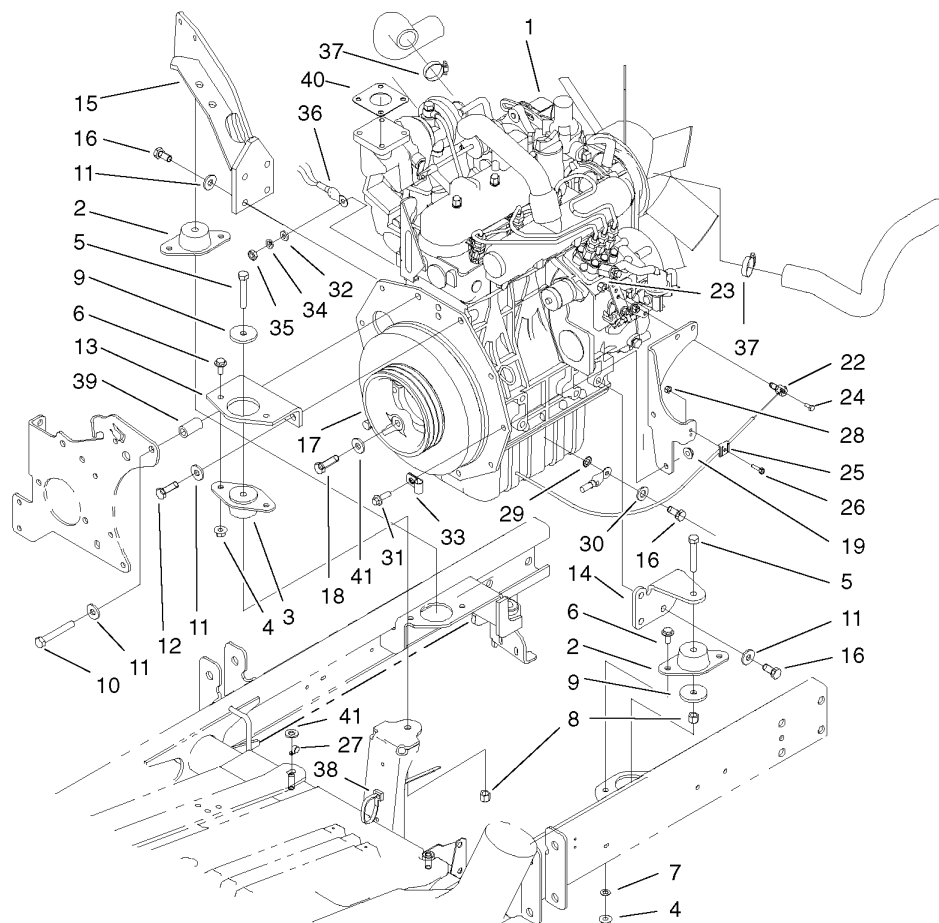
21



Neutral Arm Assembly

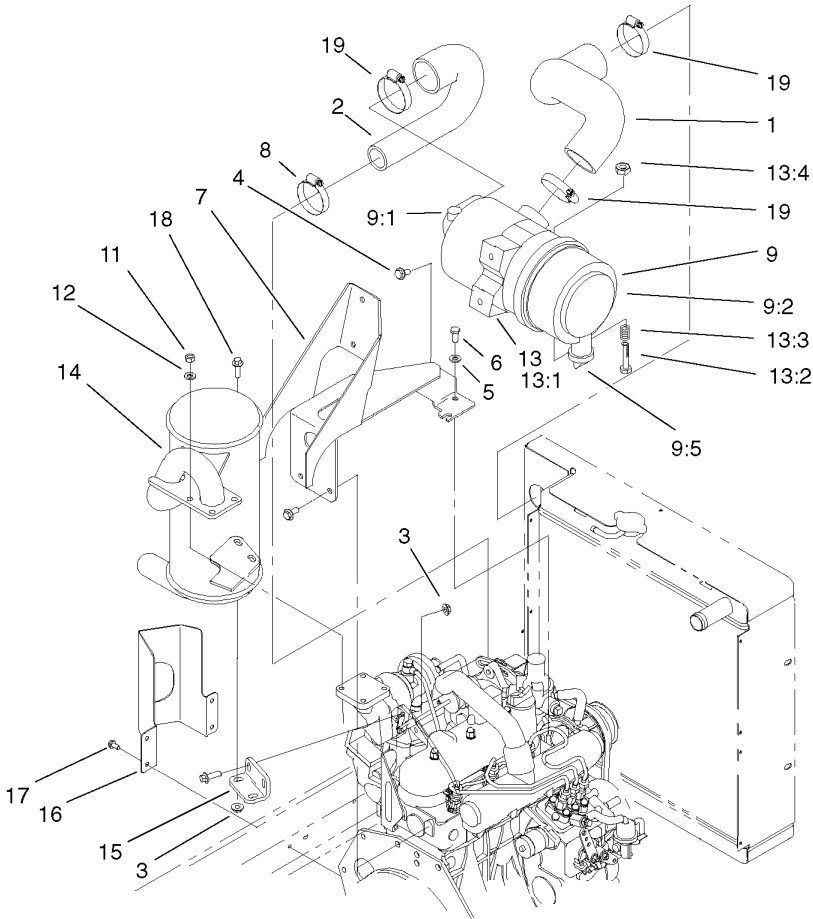
Ref	Part No.	Qty.	Description
5	95-8960-03	1	Bracket-Neutral
6	32128-43	1	Nut-Flange
7	3234-1	3	Screw-HHF
8	104-0422	1	Neutral Arm ASM
8:2	256-113	2	Bushing-Flange
10	3-6498	1	Washer-Thrust
11	302-60	1	Fitting-Lube
12	3296-29	2	Nut-Lock, NI
13	100-4817	1	Spacer-Bearing
14	76-8640	1	Stud-Traction
16	33093-00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

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



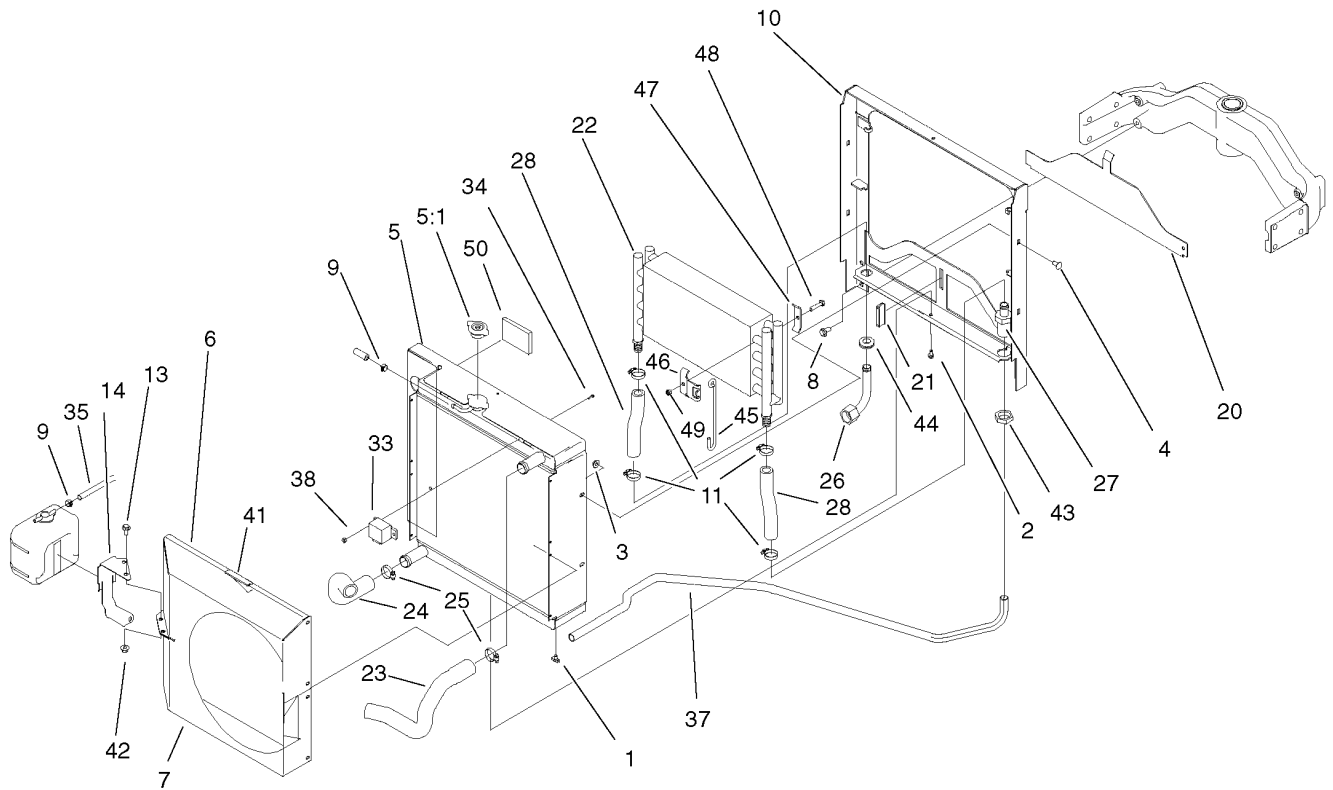
Engine Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	100-4901	1	Engine-Kubota, D1105-T-Eb-Toro-2-S1	26	32105-13	1	Screw-SHH
2	83-1030	2	Mount-Engine	27	2412-112	1	Clamp
3	93-5265	1	Mount-Engine	28	3296-2	1	Nut-Lock
4	32128-20	6	Nut-HF	29	3255-9	1	Washer-Lock/EXT
5	323-11	3	Screw-HH	30	3256-25	1	Washer-Flat
6	3234-5	6	Screw	31	3234-17	2	Screw-HHF
7	3255-8	1	Washer-Lock/EXT	32	3256-78	1	Washer-Flat
8	3296-39	3	Nut-Lock, NI	33	2412-10	1	R-Clamp
9	80-8560	3	Washer-Hardened	34	43-5930	1	Washer-Spring
10	42-9370	1	Bolt/Washer	35	48-7890	1	Nut
11	80-6990	9	Washer-Hardened	36	99-3441	1	Harness-Wire, Fusible Link
12	95-8812	1	Screw-HH	37	2412-34	2	Clamp-Hose
13	99-3618-03	1	Mount-Engine, Front	38	3290-378	14	Tie-Cable
14	95-8937-03	1	Mount-Engine, LH	39	95-8736	1	Spacer
15	100-4838-03	1	Mount-Engine	40	98-9611	1	Gasket
16	63-7790	8	Screw-Cap	41	3256-24	4	Washer-Flat
17	99-3626-03	1	Pulley-3V, Engine				
18	56-2140	3	Bolt				
19	32128-44	2	Nut				
22	98-9311	1	Swivel-Throttle				
23	3296-20	1	Nut-Lock, NI				
24	25-8640	1	Screw-HH				
25	81-1690	1	Clamp-Cable				



Air Cleaner and Muffler Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-0420	1	Hose-Air Intake, Upper	18	3234-17	3	Screw-HHF
2	99-3643	1	Hose-Air Intake, Lower	19	2412-130	3	Clamp-Hose
3	32128-44	6	Nut				
4	3234-5	3	Screw				
5	3256-23	4	Washer-Flat				
6	33114-016	4	Screw-HH				
7	99-3648-03	1	Mount-Filter, Air				
8	2412-92	1	Clamp-Hose				
9	100-4824	1	Air Cleaner ASM				
9:1	285-17	1	Plug-Pipe				
9:2	104-0497	1	Cover ASM				
9:5	104-0498	1	Valve-Vacuator				
9:6	98-9763	1	Element ASM				
11	33014-00	4	Nut-Hex				
12	42-9850	4	Washer-Lock, Spring				
13	100-4825	1	Band-Mouning, Air Cleaner				
13:1		1	Clamp ASM				
13:2	94-3653	1	Bolt				
13:3	94-3654	1	Spring				
13:4	48-9510	1	Nut				
14	100-4810	1	Muffler				
15	95-8943-03	1	Bracket-Muffler				
16	99-3425-03	1	Guard-Exhaust				
17	32144-4	4	Screw-HWH				

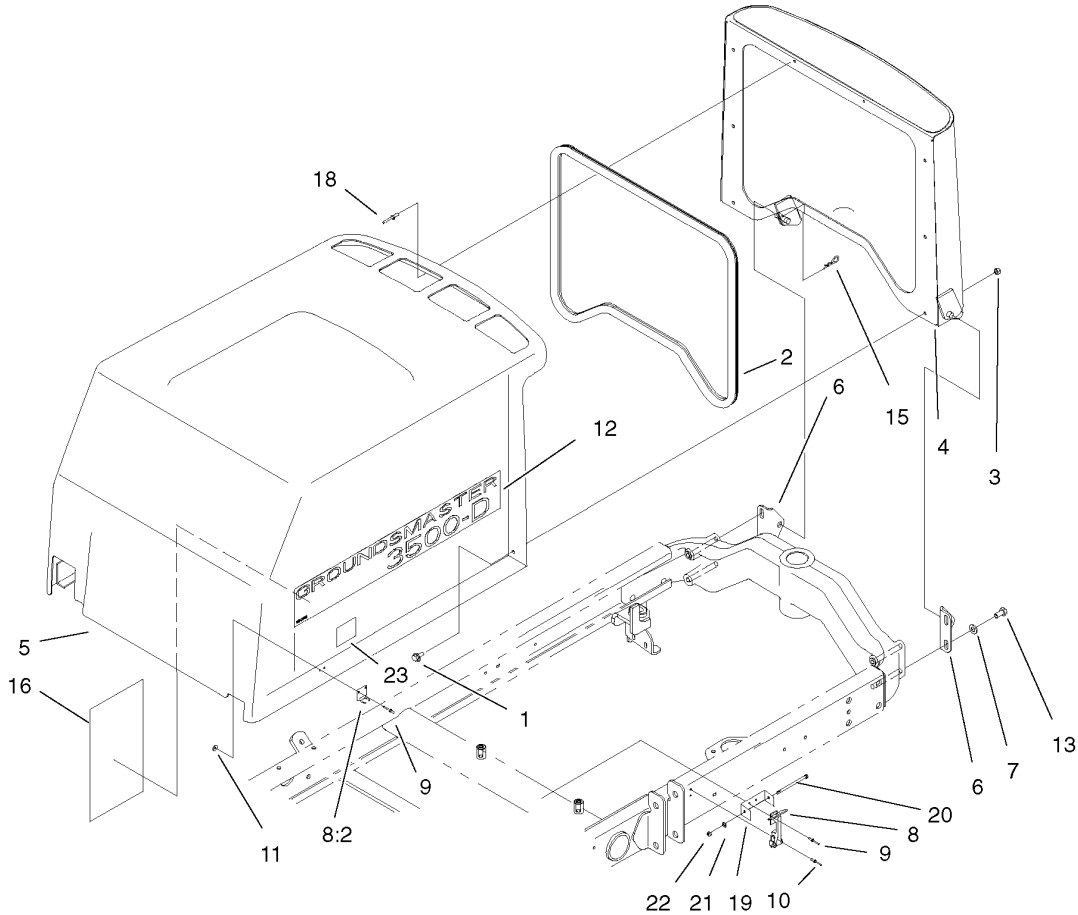


**Water Overflow Bottle
is furnished with engine**

Radiator Assembly

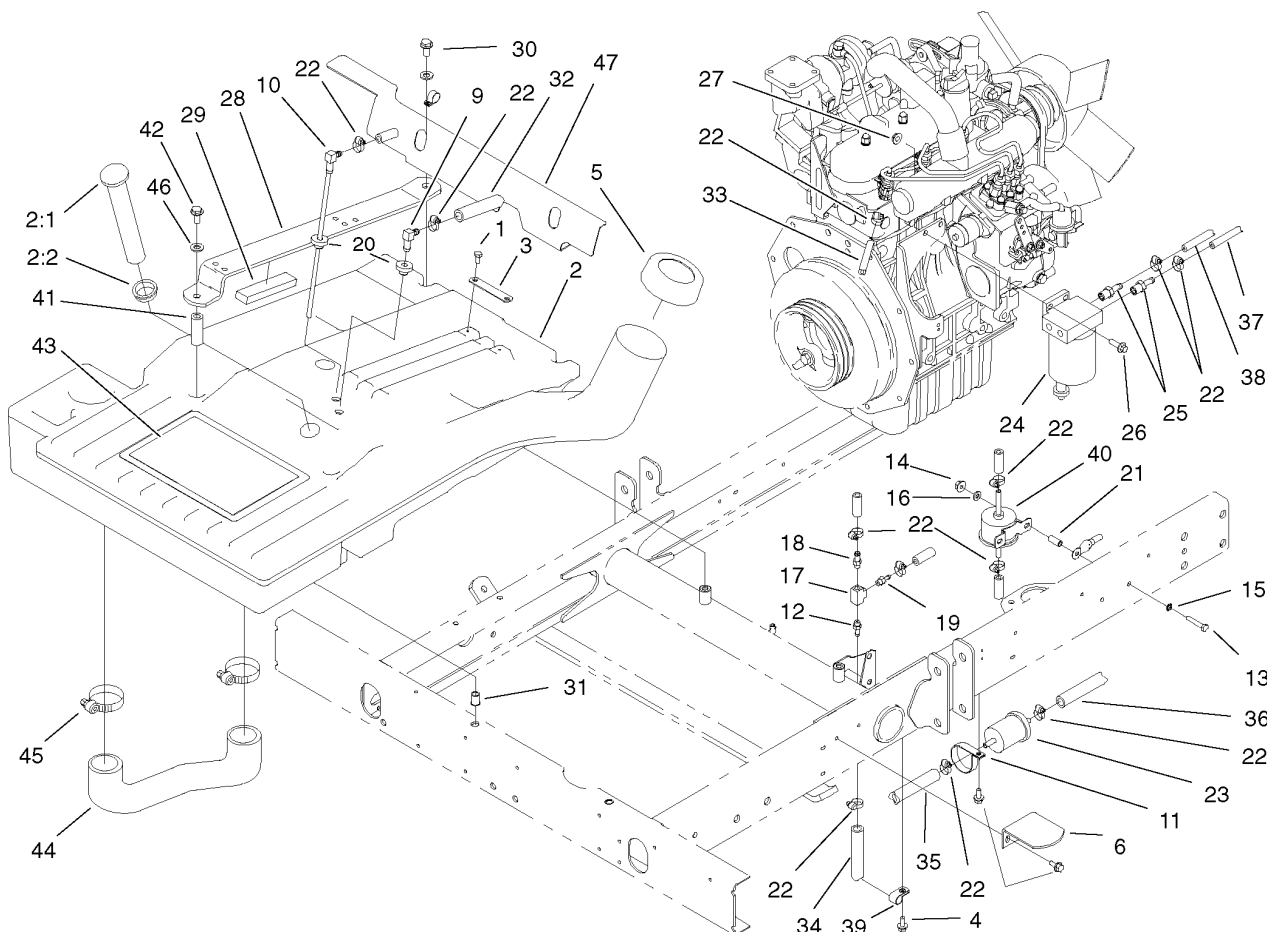
Ref	Part No.	Qty.	Description
1	304-46	1	Draincock
2	32104-116	11	Screw
3	32128-44	4	Nut
4	3230-1	4	Screw-CARR
5	99-3637	1	Radiator
5:1	93-5957	1	Cap-Radiator
6	100-4885-03	1	Shroud-Fan, Top
7	100-4898-03	1	Shroud-Fan, Bottom
8	3234-1	4	Screw-HHF
9	92-2379	2	Clamp-Hose
10	104-4855-03	1	Frame ASM-Radiator
11	2412-129	4	Clamp-Hose
13	3234-5	2	Screw
14	100-4899-03	1	Bracket-Reservoir
20	95-8702-03	1	Shield-Radiator, Lower
21	99-3497	1	Magnet
22	100-4869	1	Cooler-Oil
23	104-0454	1	Hose-Radiator, Upper
24	100-4809	1	Hose-Radiator, Lower
25	2412-34	2	Clamp-Hose
26	99-3644	1	Filter Head Tube ASM
27	100-4925	1	Fitting-Bulkhead
28	99-3646	2	Hose-Cooler, Oil
33	66-8800	1	Relay

Ref	Part No.	Qty.	Description
34	32105-13	2	Screw-SHH
35	63-9640	1	Hose
37	100-4924	1	Tube ASM
38	32128-17	2	Nut-Lock, Flange
41	93-6681	1	Decal-Warning, Fan
42	32128-20	2	Nut-HF
43	340-126	1	Nut-Bulkhead
44	100-4866	1	Grommet
45	100-4858	2	Form-Wire
46	100-4859	2	Bracket-Cooler, Keeper
47	100-4860	2	Bracket-Clamp
48	322-17	2	Screw-HH
49	3296-47	2	Nut-Lock, NI
50	104-9459	4	Seal-Foam



Hood and Screen Assembly

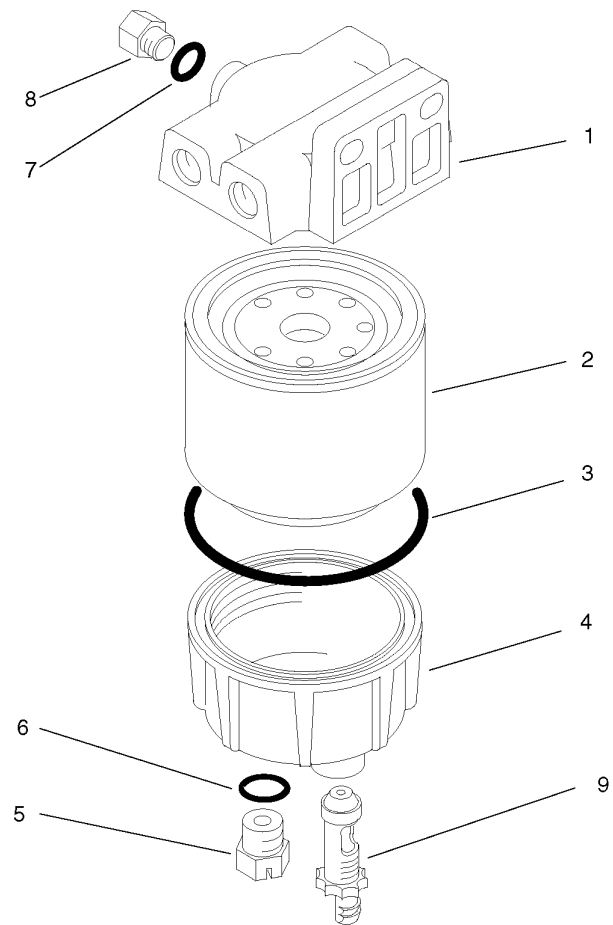
Ref	Part No.	Qty.	Description				
1	3234-4	6	Screw-HHF				
2	100-4932	1	Trim-Seal				
3	3296-42	6	Nut-Lock, NI				
4	104-4853-03	1	Screen ASM-Hood				
5	100-4855	1	Hood				
6	95-8728	2	Bracket-Pivot, Hood				
7	3256-24	4	Washer-Flat				
8	59-9740	2	Flex Draw Latch ASM				
8:2	249-40	1	Keeper				
9	98-7310	4	Rivet				
10	3290-55	4	Rivet-Pop				
11	3269-10	4	Washer-Back				
12	104-0446	2	Decal				
13	323-4	4	Screw-HH				
15	3290-467	1	Pin-Hair				
16	104-4864	1	Decal-Service Instructions				
18	3269-21	2	Rivet-Pop				
19	99-3568	1	Bracket-Lock,Ce				
20	321-9	1	Screw-HH				
21	3256-22	1	Washer-Flat				
22	3296-42	1	Nut-Lock, NI				
23	100-6574	1	Decal-Warning				



Fuel System Assembly

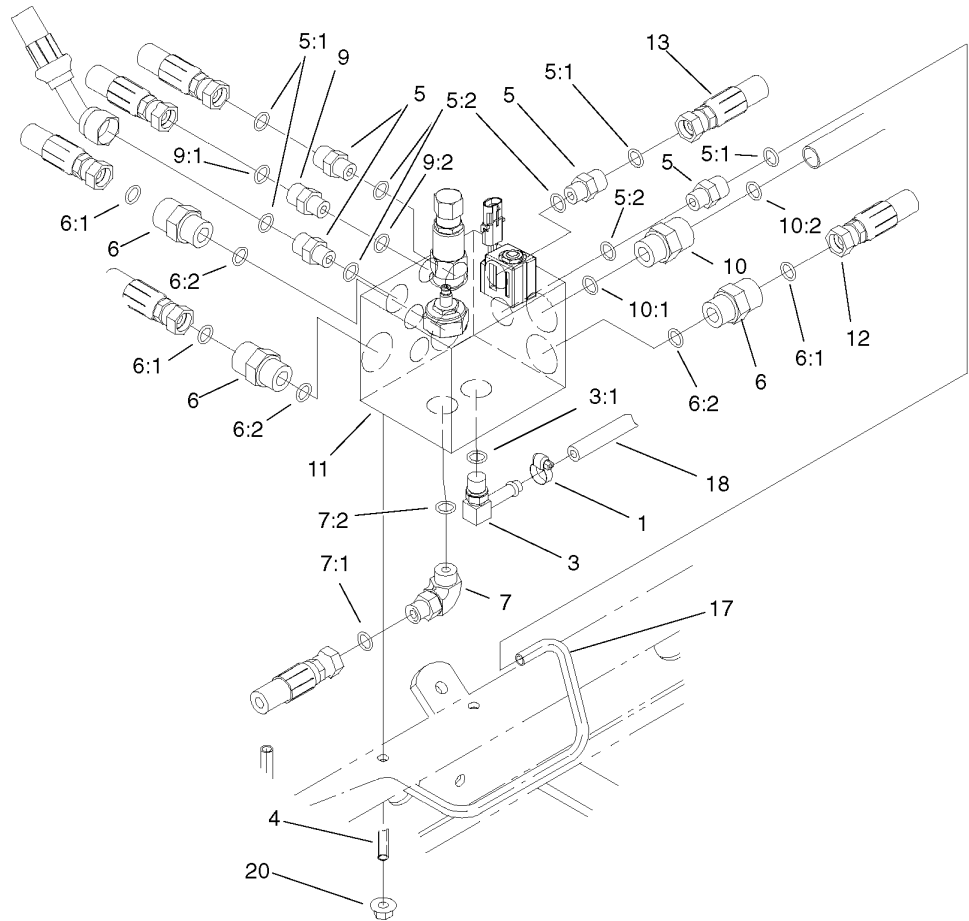
Ref	Part No.	Qty.	Description
1	321-2	2	Screw-HH
2	105-7865	1	Tank-Fuel
2:1	95-8971	1	Guage-Fuel
2:2	95-8972	1	Grommet
3	95-8881	1	Strap-Line, Fuel
4	32144-10	4	Screw-HWH
5	95-4193	1	Diesel Gas Cap ASM
6	95-8968-03	1	Support-Tank, Fuel
9	46-6550	1	Fitting-HYD, 90Ø
10	66-8121	1	Standpipe
11	2412-148	1	Clamp-R
12	304-73	1	Connector-Hose
13	321-9	2	Screw-HH
14	32128-33	2	Nut-HF
15	3255-7	1	Washer-Lock/EXT
16	3256-22	2	Washer-Flat
17	354-20	1	Fitting-Tee
18	354-21	1	Fitting-Barb
19	354-22	1	Fitting-Barb
20	46-6560	2	Bushing
21	87-4710	2	Spacer-Brake, Parking
22	2412-108	13	Clamp-Worm
23	98-7612	1	Filter-Fuel
24	98-9305	1	Filter-Water/Fuel

Ref	Part No.	Qty.	Description
25	353-783	2	Fitting-Pump
26	3234-17	2	Screw-HHF
27	32128-44	2	Nut
28	104-0467-03	2	Strap-Support, Seat
29	95-8896	2	Foam
30	3234-11	2	Screw-HHF
31	32148-9	2	Insert-Nut
32	71-3380	1	Hose-Fuel
33	99-3498	1	Return-Line, Fuel
34	99-3185	1	Line-Fuel
35	71-3383	1	Hose-Fuel
36	19-3250	1	Hose-Line, Fuel
37	63-9640	1	Hose
38	104-4857	1	Hose-Fuel
39	2412-73	1	Clamp-R
40	99-3464	1	Pump-Fuel
41	104-0466	2	Spacer-Tube
42	323-14	2	Screw-HH
43	104-0484	1	Decal
43	99-3560	1	Decal-Danger, Ce
44	105-4094	1	Hose-Formed
45	2412-129	2	Clamp-Hose
46	3256-24	2	Washer-Flat
47	104-4833-03	1	Shield-Heat



Water / Fuel Filter Assembly No. 98-9305

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



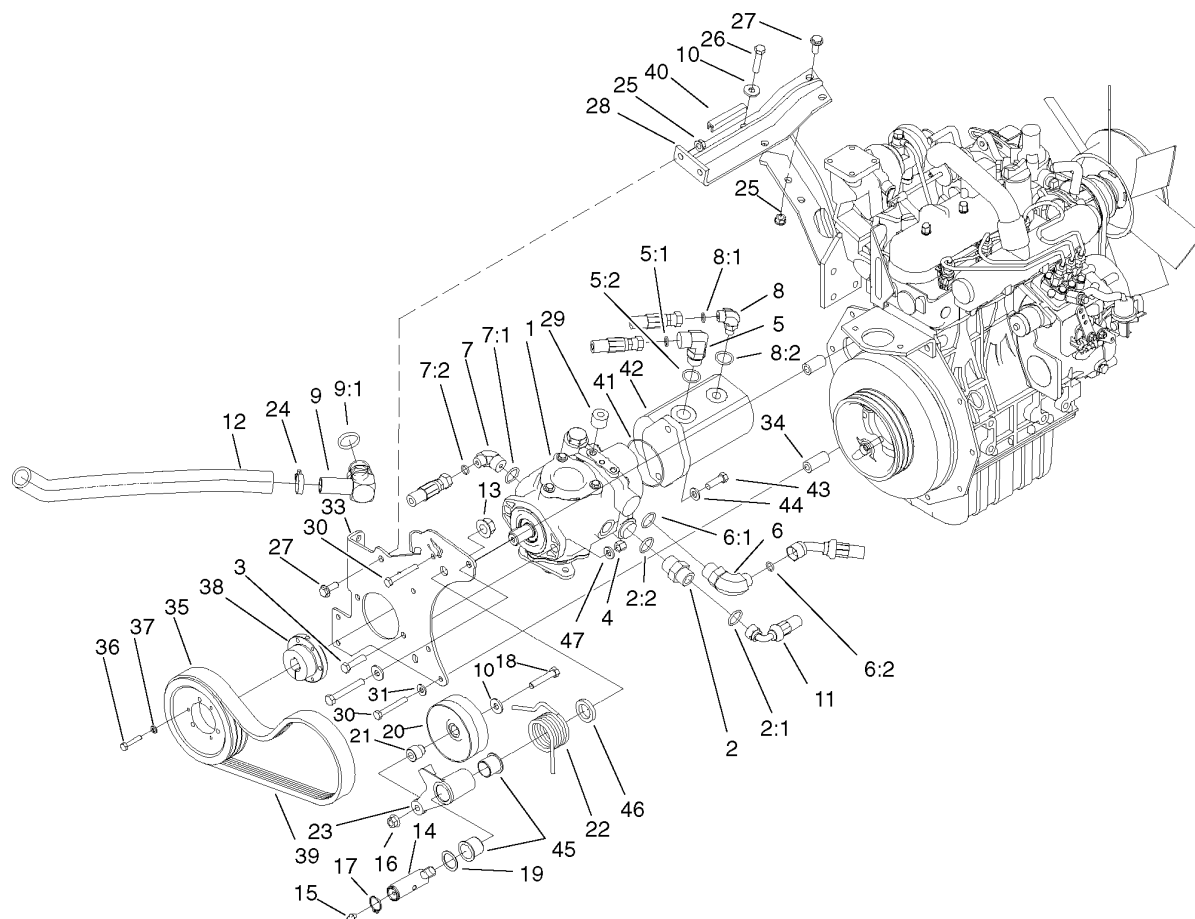
Manifold Block Installation Assembly

Ref	Part No.	Qty.	Description
1	2412-36	1	Clamp-Hose
3	100-4887	1	Fitting-Barb
3:1	237-42	1	O-Ring
4	104-0430	2	Stud
5	340-2	4	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-7	3	Adapter
6:1	237-65	1	O-Ring
6:2	237-80	1	O-Ring
7	340-77	1	Fitting-HYD, 90Ø
7:1	237-22	1	O-Ring
7:2	237-42	1	O-Ring
9	340-88	1	Adapter
9:1	237-22	1	O-Ring
9:2	237-78	1	O-Ring
10	340-66	1	Fitting-HYD
10:1	237-80	1	O-Ring
10:2	237-58	1	O-Ring
11	104-4876	1	Manifold ASM
12	104-0488	1	Hose ASM
13	100-4889	1	Hose ASM
17	100-4827	1	Tube ASM
18	80-7342	1	Hose ASM

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



Ref	Part No.	Qty.	Description
20	104-0486	1	Hose ASM
21	104-4836	1	Fitting-Tee
22	104-0487	1	Hose ASM

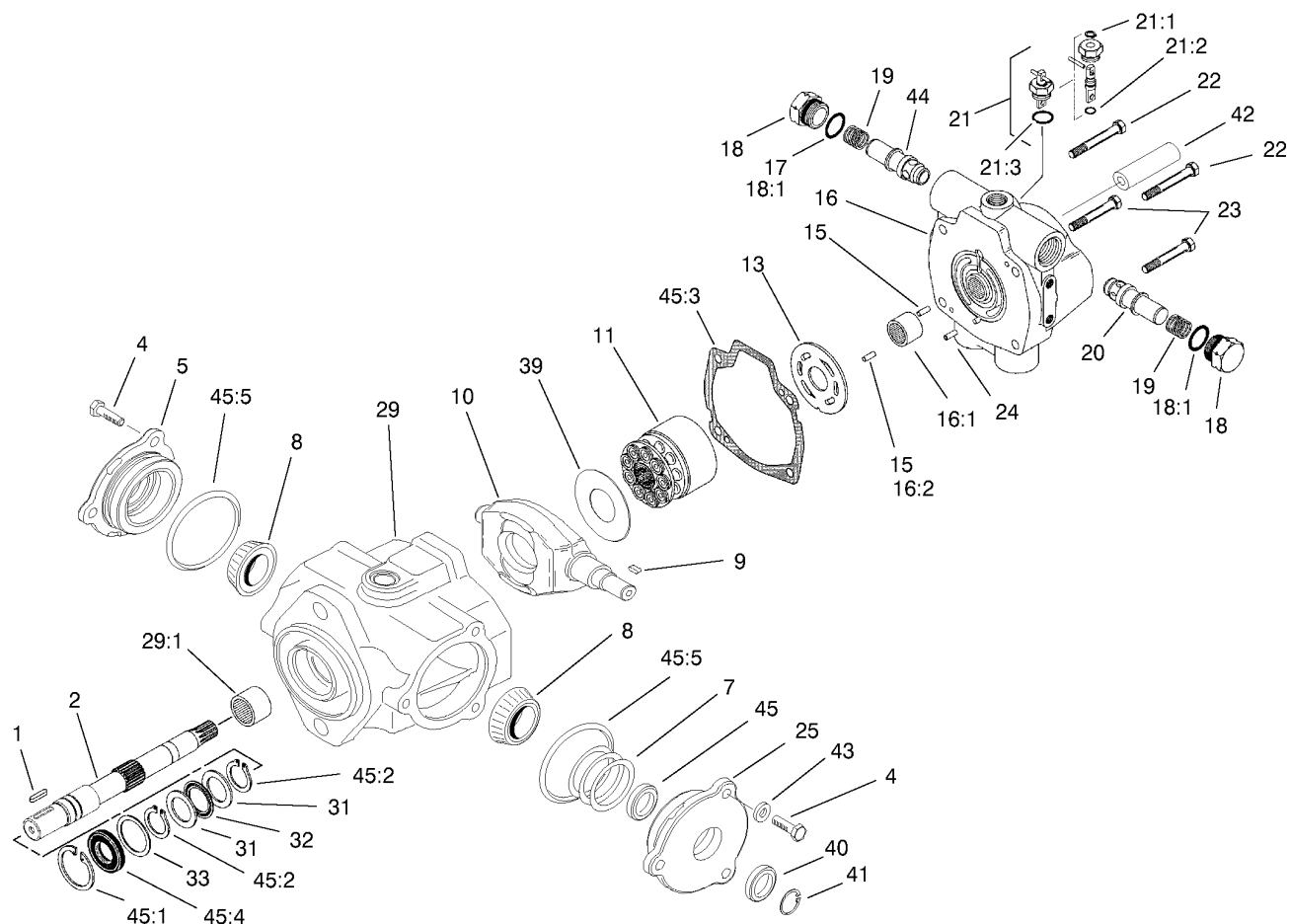


Hydrostat Assembly

Ref	Part No.	Qty.	Description
1	104-4832	1	Pump-Piston
2	340-8	1	Adapter
2:1	237-65	1	O-Ring
2:2	237-81	1	O-Ring
3	323-8	2	Screw-HH
4	3296-39	2	Nut-Lock, NI
5	340-17	1	Adapter
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-139	1	Fitting-HYD, 90Ø
6:1	237-81	1	O-Ring
6:2	237-65	1	O-Ring
7	340-18	1	Fitting-HYD, 90Ø
7:1	237-79	1	O-Ring
7:2	237-22	1	O-Ring
8	340-77	1	Fitting-HYD, 90Ø
8:1	237-22	1	O-Ring
8:2	237-42	1	O-Ring
9	95-3502	1	Fitting-Elbow
9:1	237-81	1	O-Ring
10	80-6990	3	Washer-Hardened
11	105-1214	1	Hose ASM
12	104-5486	1	Hose
13	32128-54	1	Nut-Flange

Ref	Part No.	Qty.	Description
14	99-3624	1	Shaft-Pivot, Idler
15	302-5	1	Fitting-Grease
16	32128-21	1	Nut-HF
17	32151-36	1	Ring-Retaining
18	323-10	1	Screw-HH
19	74-1810	1	Washer
20	99-3621	1	Pulley-Idler
21	99-3622	1	Spacer-Idler
22	100-4844	1	Spring-Torsion
23	99-3623-03	1	Arm-Idler
24	2412-34	1	Clamp-Hose
25	32128-43	4	Nut-Flange
26	323-19	2	Screw-HH
27	3234-11	4	Screw-HHF
28	99-3436-03	1	Support-Pump
29	99-3440	2	Spacer
30	33114-060	4	Screw-HH
31	87-8640	3	Washer-Flat
33	95-8933-03	1	Plate-Mount, Pump
34	95-8941	4	Spacer-Mount, Pump
35	99-3620	1	Pulley-3V, Pump
36	321-13	3	Screw-HH
37	3253-3	3	Washer-Lock
38	100-4813	1	Bushing-Lock, Taper

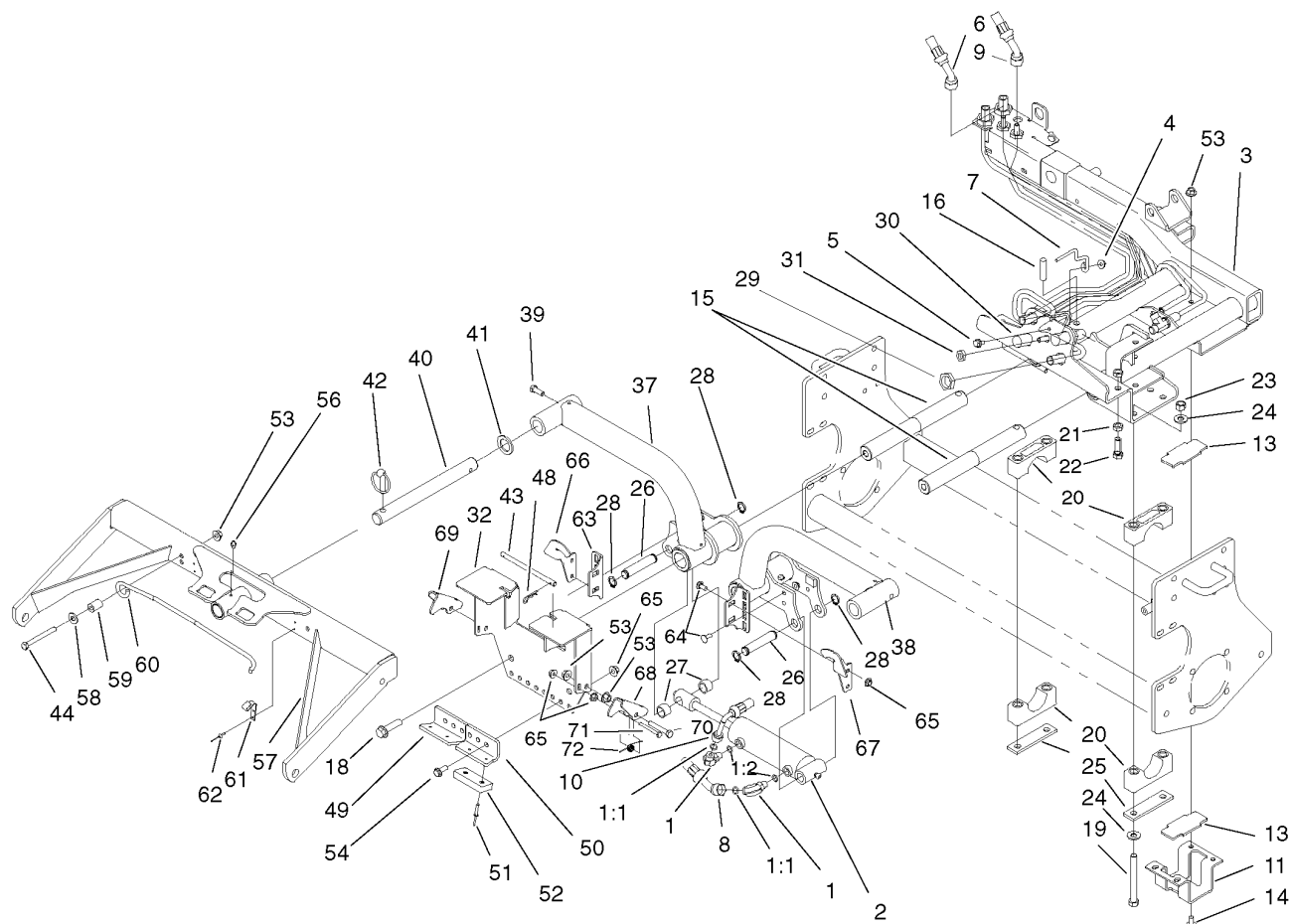
33



Piston Pump Assembly No. 104-4832

Ref	Part No.	Qty.	Description
1	94-3645	1	Key
2	94-6359	1	Shaft-Drive
4	98-4640	6	Screw-Cap
5	98-4633	1	Cover Plate ASM
7	100-3182	1	Kit-Shim
8	98-4639	2	Bearing-Cone
9	94-3646	1	Key
10	99-3520	1	Plate-Cam
11	76-6070	1	Kit-Rotating
13	104-0429	1	Plate-Cam
15	76-6150	2	Pin-Dowel
16	100-3177	1	Back Plate ASM
16:1	94-6368	1	Bearing
●16:2		1	Pin-Roll
●17		4	O-Ring
18	70-1240	2	Plug ASM
18:1	60-5980	1	O-Ring
19	76-6200	2	Spring
20	94-3644	1	Seat
21	100-3181	1	Dump Valve ASM
●21:1		1	Ring-Retaining
●21:2		1	O-Ring
●21:3		1	O-Ring
22	76-6170	2	Capscrew

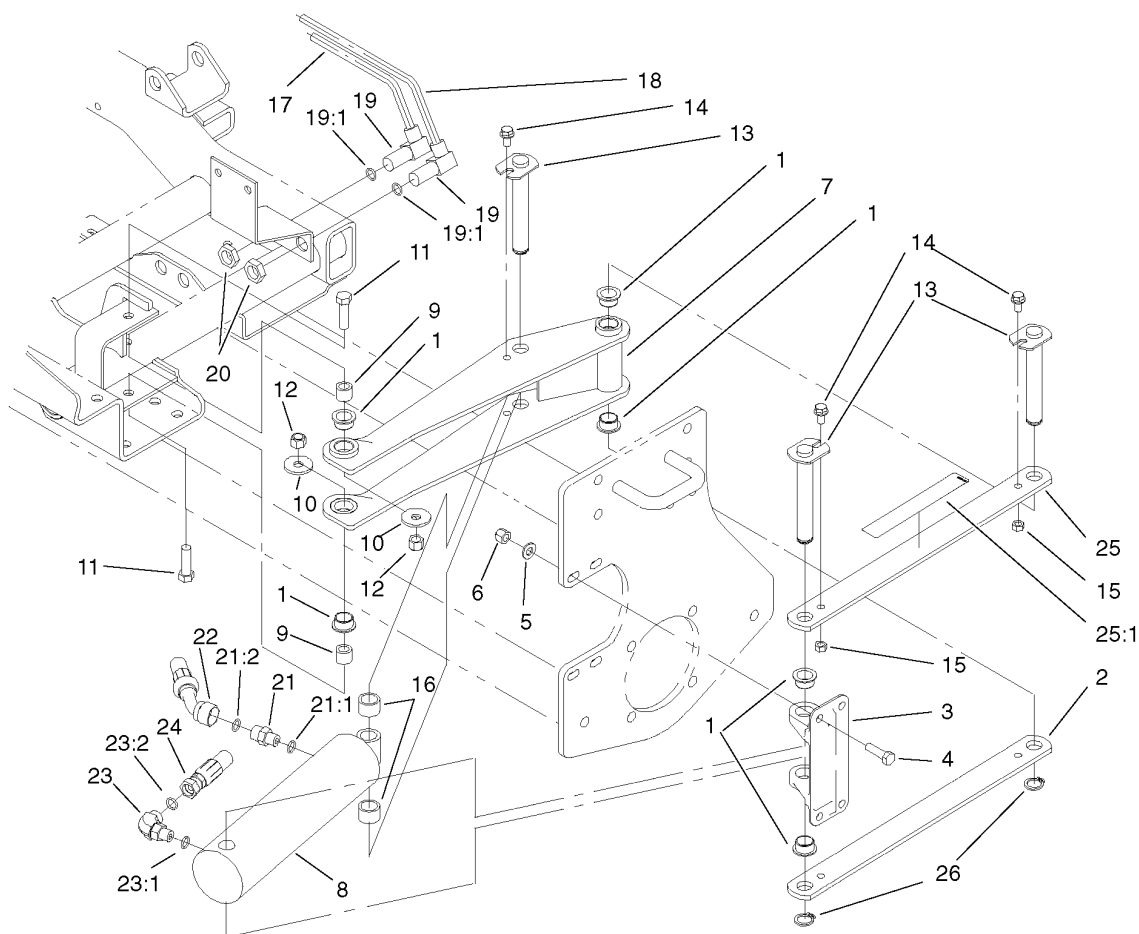
Ref	Part No.	Qty.	Description
23	76-6160	2	Capscrew
●24		1	Pin-Roll
25	98-4645	1	Cover Plate ASM
29	100-3176	1	Housing ASM
29:1	94-6363	1	Bearing
31	252-71	2	Washer Thrust 1.010Id 1.552 Od .09Wd
32	252-66	1	Bearing-Thrust
33	33-3720	1	Washer
39	98-4635	1	Insert-Plate, Cam
●40		1	Seal-Shaft
●41		1	Ring-Retaining
42	74-9040	1	Coupler
43	95-6055	6	Washer
44	104-4837	1	Relief Valve ASM
45	104-4868	1	Seal Repair Kit
45:1	32151-13	1	Ring-Retaining
45:2	32151-29	1	Ring-Retaining
45:3	33-4930	1	Gasket-Housing
45:4	104-4861	1	Seal-Shaft
45:5	100-3179	1	O-Ring



Carrier Assembly

Ref	Part No.	Qty.	Description
1	340-77	2	Fitting-HYD, 90°
1:1	237-22	1	O-Ring
1:2	237-42	1	O-Ring
2	95-8978	1	Cylinder-HYD
3	100-4939-03	1	Sidewinder Carrier ASM
4	32128-33	1	Nut-HF
5	3234-4	1	Screw-HHF
6	95-8822	1	Hose ASM
7	99-3433	1	Wire-Center
8	104-0405	1	Hose ASM
9	95-8821	1	Hose ASM
10	104-0406	1	Hose ASM
11	104-0416-03	1	Bracket-Slide
13	104-0417	2	Slide-Plastic
14	3234-1	4	Screw-HHF
15	95-8531	2	Shaft-Pivot, Liftarm
16	32121-122	2	Pin-Roll
18	3234-27	2	Screw-Flange
19	325-38	8	Screw-HH
20	95-8609	8	Cap-Bearing
21	3218-5	4	Nut-Jam
22	325-6	2	Screw-HH
23	3296-23	8	Nut-Lock, NI
24	87-7270	16	Washer-Thrust

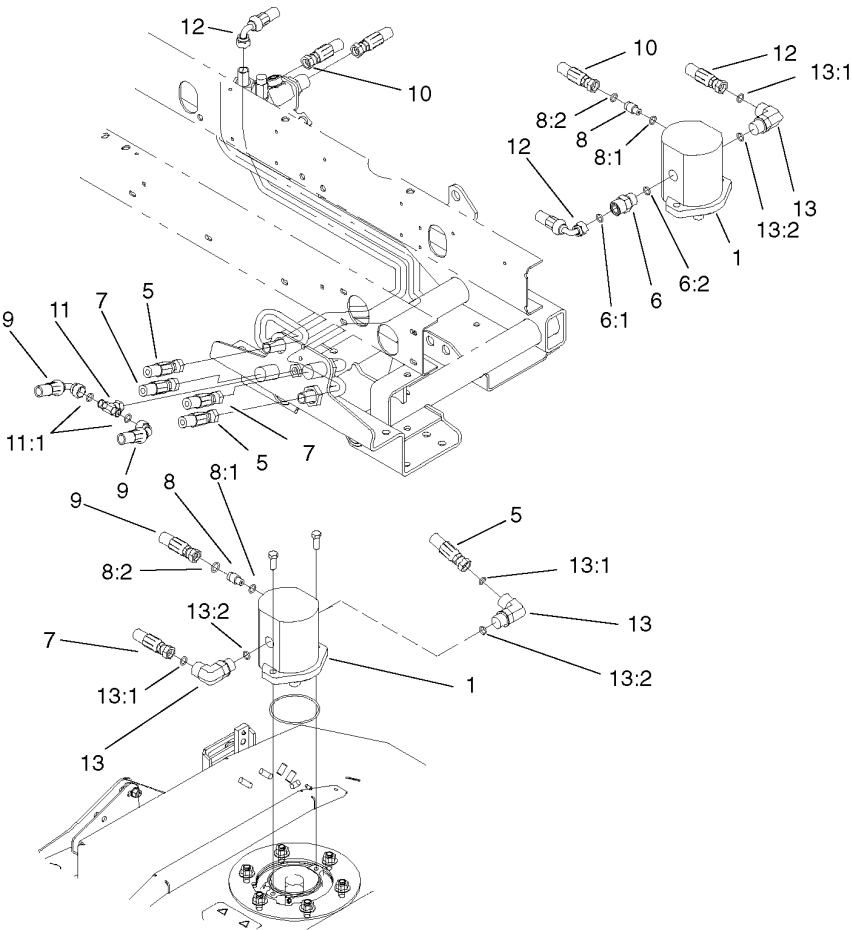
Ref	Part No.	Qty.	Description
25	99-3373	4	Bar-Support, Slide
26	95-8575	2	Pin
27	75-9590	2	Spacer-Cylinder
28	32120-93	4	Ring-Retaining
29	340-74	4	Locknut-Bulkhead
30	99-3640	1	Tube ASM
31	340-78	1	Locknut-Bulkhead
32	104-4820-03	1	Bracket-Stop, Carrier
37	104-0481	1	RH Liftarm ASM
38	104-0482	1	LH Liftarm ASM
39	323-6	2	Screw-HH
40	95-8979	2	Shaft
41	3-6781	2	Washer-Thrust
42	283-71	2	Pin-Lynch
43	104-0472	1	Rod
44	323-15	2	Screw-HH
48	3290-467	2	Pin-Hair
49	104-4639-03	1	Stop-Deck, LH
50	104-4640-03	1	Stop-Deck, RH
51	3269-11	4	Rivet
52	86-5350	2	Bumper-Rubber
53	32128-43	14	Nut-Flange
54	3234-11	4	Screw-HHF
56	302-5	2	Fitting-Grease



Scissor Assembly

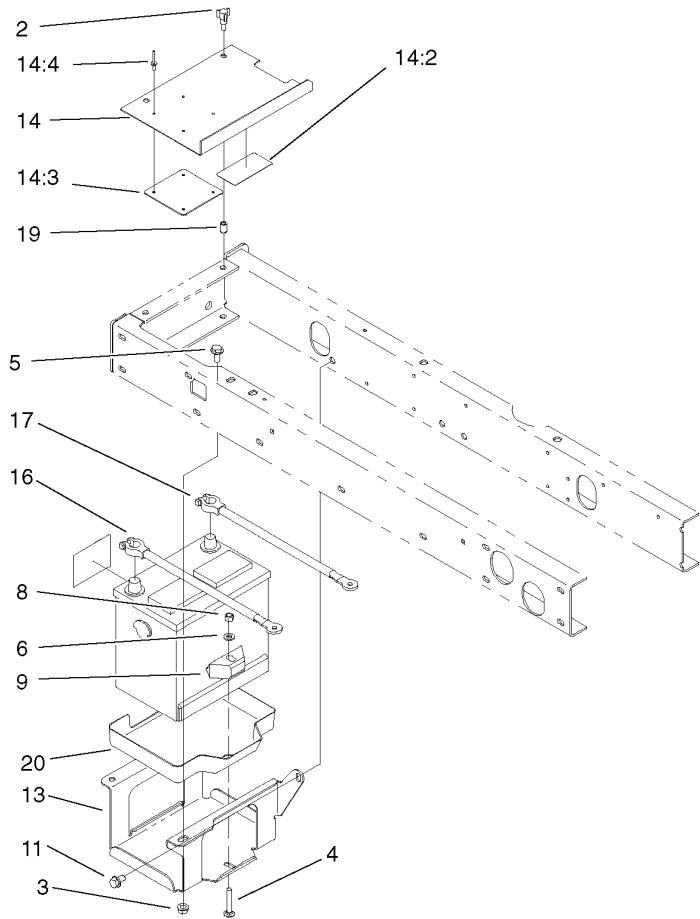
Ref	Part No.	Qty.	Description
1	95-8526	6	Bushing-Plastic
2	95-8527-03	1	Link-Scissor
3	95-8883	1	Mount-Scissor
4	323-7	4	Screw-HH
5	3256-24	4	Washer-Flat
6	3296-39	4	Nut-Lock, NI
7	95-8521-03	1	Frame-Scissor
8	95-8512	1	Cylinder-HYD
9	95-8603	2	Spacer
10	87-5330	2	Washer
11	324-6	2	Screw-HH
12	3296-48	2	Nut-Lock NI
13	95-8529	3	Pin
14	3234-14	3	Screw-HHF
15	32152-1	3	Nut-Lock, NI
16	46-6350	2	Spacer
17	95-8790	1	Tube ASM
18	95-8791	1	Tube ASM
19	340-154	2	Union-Bulkhead
19:1	237-22	2	O-Ring
20	340-70	2	Locknut-Bulkhead
21	85-9720	1	Fitting-Orificed
21:1	237-78	1	O-Ring
21:2	237-21	1	O-Ring

Ref	Part No.	Qty.	Description
22	95-8838	1	Hose ASM
23	340-132	1	Fitting-HYD, 90°
23:1	237-78	1	O-Ring
23:2	237-21	1	O-Ring
24	95-8839	1	Hose ASM
25	99-3505	1	Scissors Link ASM
25:1	94-3353	1	Decal-Point, Pinch
26	32120-93	2	Ring-Retaining



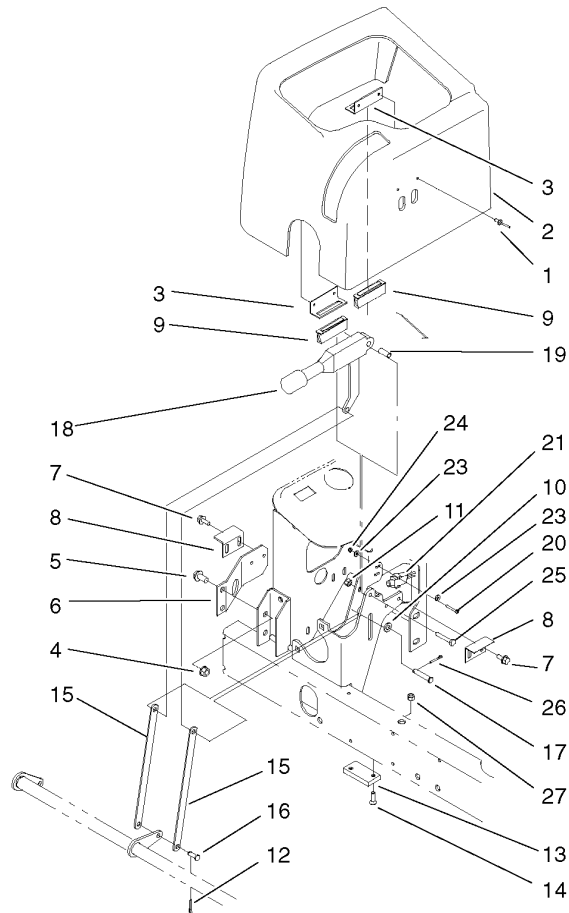
Deck Motor Assembly

Ref	Part No.	Qty.	Description				
1	99-6104	3	Motor-HYD				
2*1:2	99-6105	1	Kit-Seal				
2*1:3	98-5185	1	Bit-Flange/Valve, Back				
2*1:4	98-5191	1	Kit-Valve, Relief				
5	105-1216	2	Hose ASM				
6	340-7	1	Adapter				
6:1	237-65	1	O-Ring				
6:2	237-80	1	O-Ring				
7	105-1215	2	Hose ASM				
8	340-92	3	Fitting-Straight, HYD				
8:1	237-78	1	O-Ring				
8:2	237-21	1	O-Ring				
9	104-1080	2	Hose ASM				
10	100-4876	1	Hose ASM				
11	99-3477	1	Fitting-Tee				
11:1	237-42	2	O-Ring				
12	100-4880	2	Hose ASM				
13	340-17	5	Adapter				
13:1	237-65	1	O-Ring				
13:2	237-80	1	O-Ring				



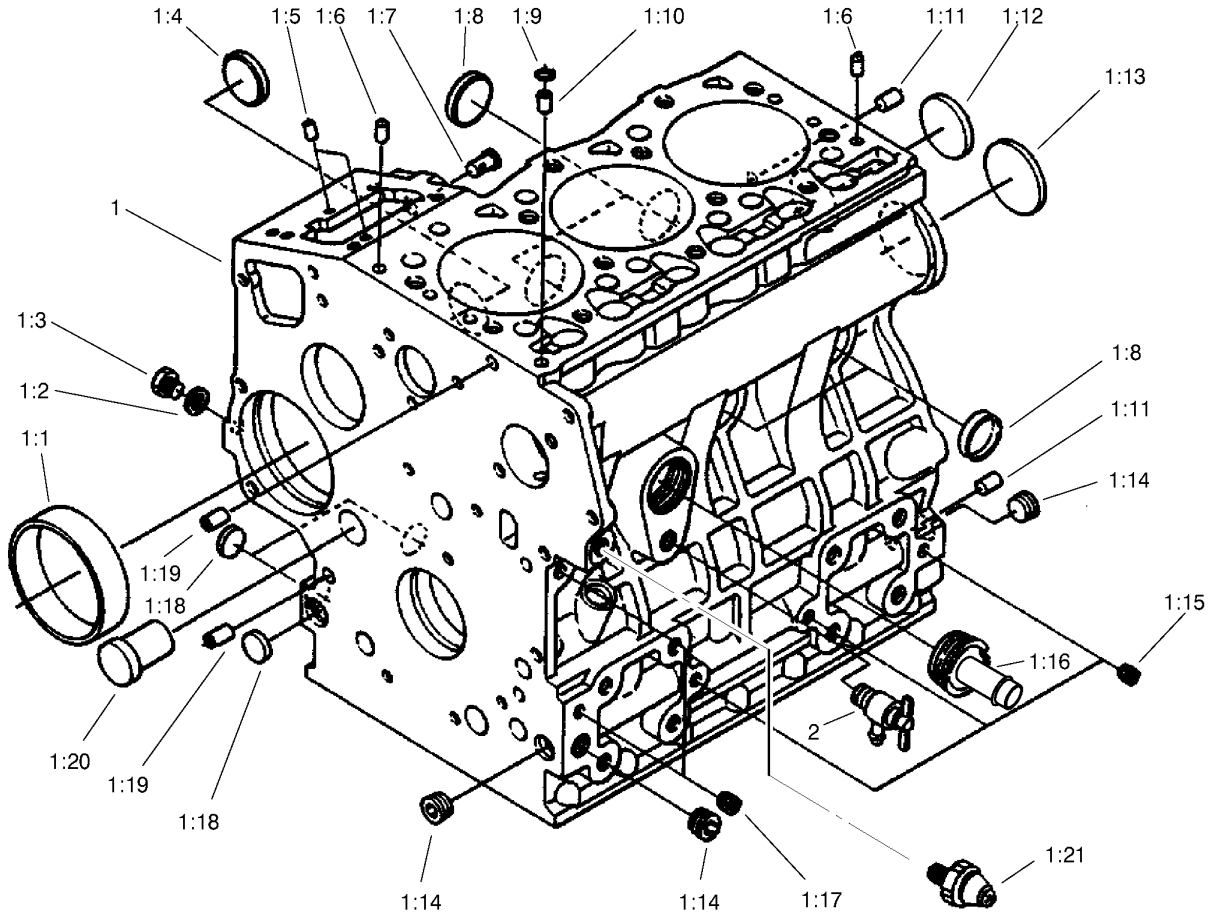
Battery Assembly

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



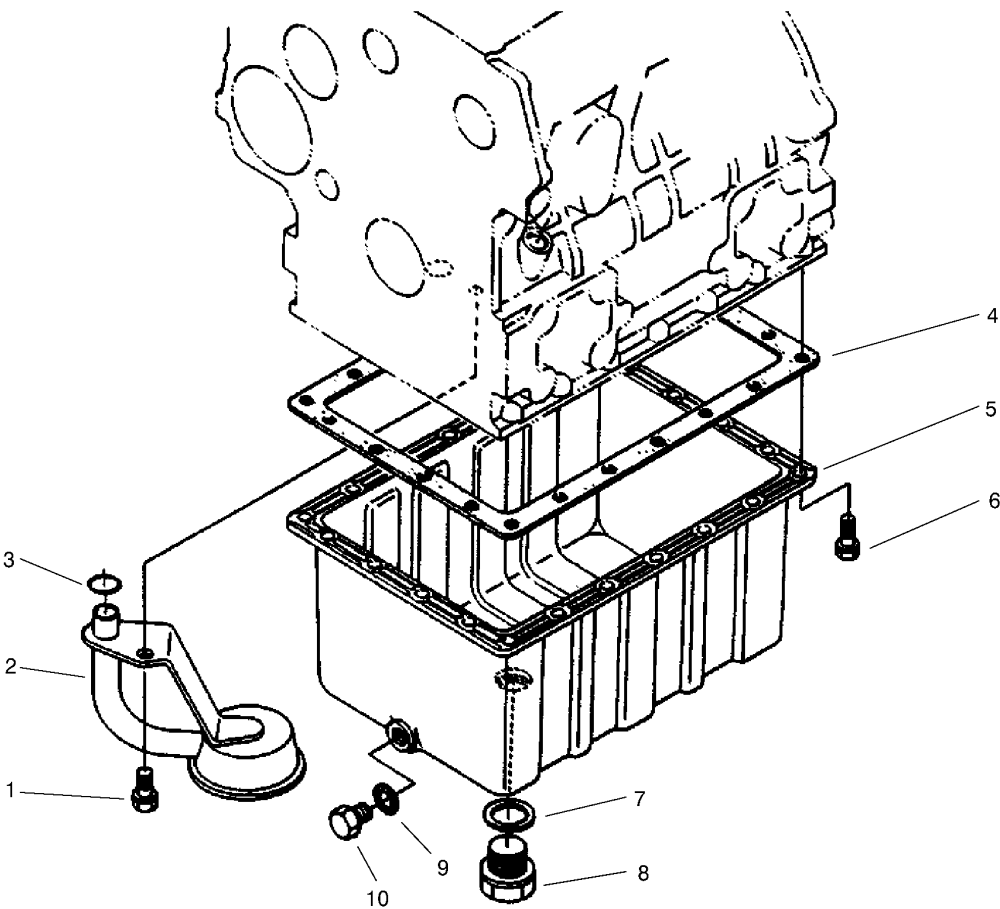
Parking Brake Assembly

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



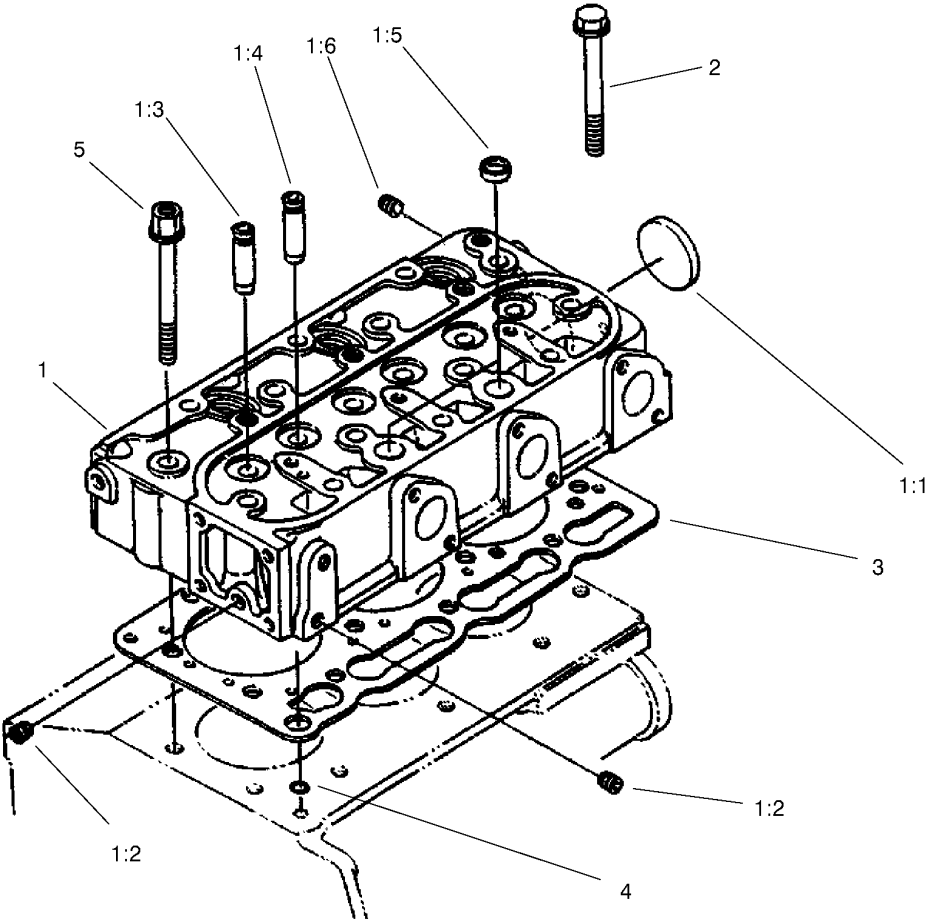
Crankcase Assembly

Ref	Part No.	Qty.	Description				
1	99-8300	1	Crankcase ASM				
1:1	98-9656	1	Bushing-Governor, Gear				
1:2	98-7428	1	Gasket				
1:3	98-7507	1	Plug				
1:4	98-9599	1	Plug				
1:5	98-9375	2	Pin-Straight				
1:6	98-9376	2	Pin-Straight				
1:7	98-9630	1	Pin-Spring, Start				
1:8	98-9398	4	Cap-Sealing				
1:9	98-7509	1	O-Ring				
1:10	98-9539	1	Pin-Pipe				
1:11	98-9377	2	Pin-Straight				
1:12	98-7539	1	Cap-Sealing				
1:13	98-9668	1	Plug				
1:14	98-9597	3	Plug				
1:15	98-7540	3	Cap-Sealing				
1:16	99-8347	1	Joint-Pipe, Drain				
1:17	98-7487	2	Plug				
1:18	98-9379	3	Plug				
1:19	98-9387	2	Pin-Pipe				
1:20	98-9675	1	Plug				
1:21	98-9416	1	Switch-Oil				
2	98-9436	1	Drain Cock ASM				



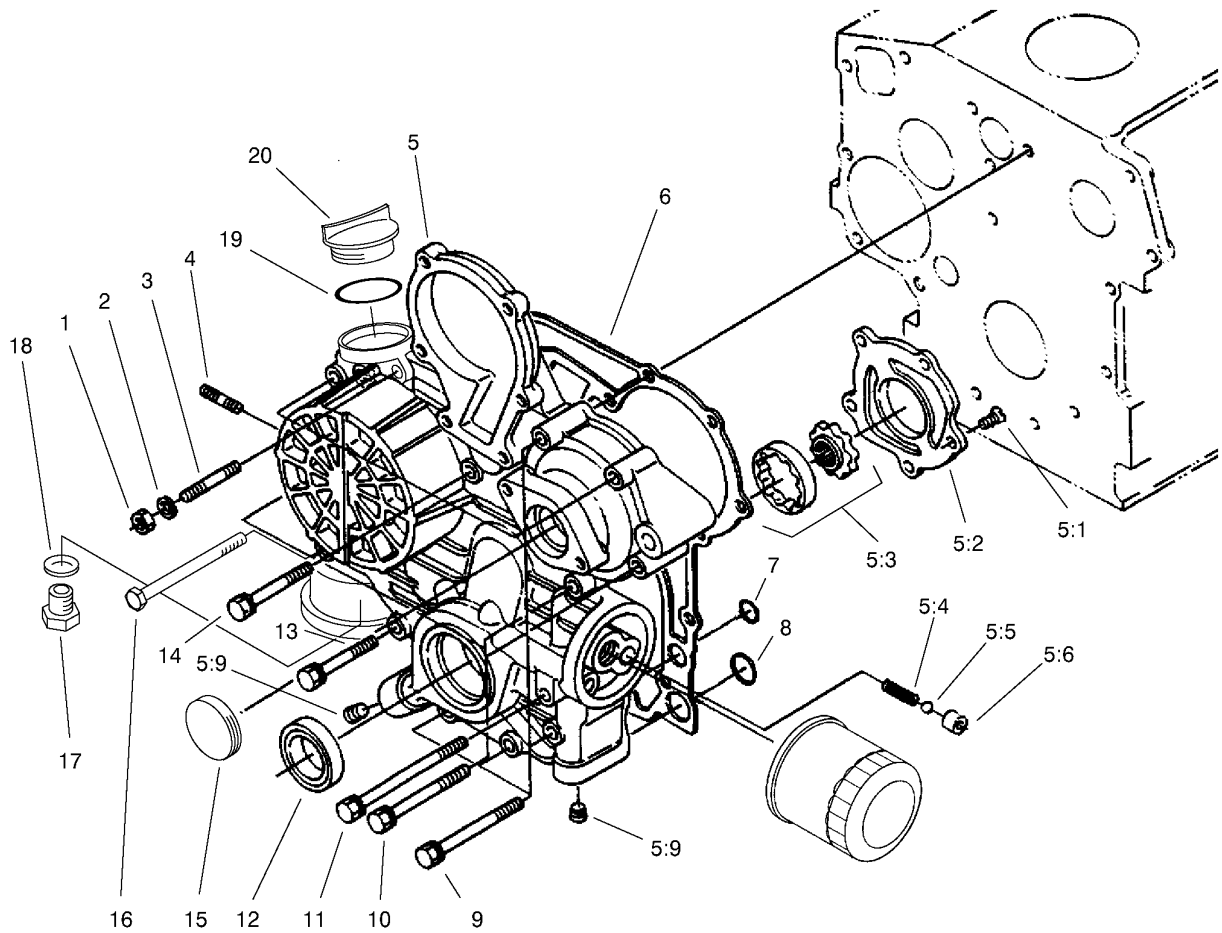
Oil Pan Assembly

Ref	Part No.	Qty.	Description				
1	98-9358	1	Bolt				
2	98-9538	1	Filter-Oil				
3	98-7527	1	O-Ring				
4	98-9646	1	Gasket-Pan, Oil				
5	98-9685	1	Drain-Oil				
6	98-9350	22	Bolt				
7	98-9399	1	Gasket				
8	98-7523	1	Plug-Drain				
9	98-7524	1	Gasket				
10	98-9386	1	Plug				



Cylinder Head Assembly

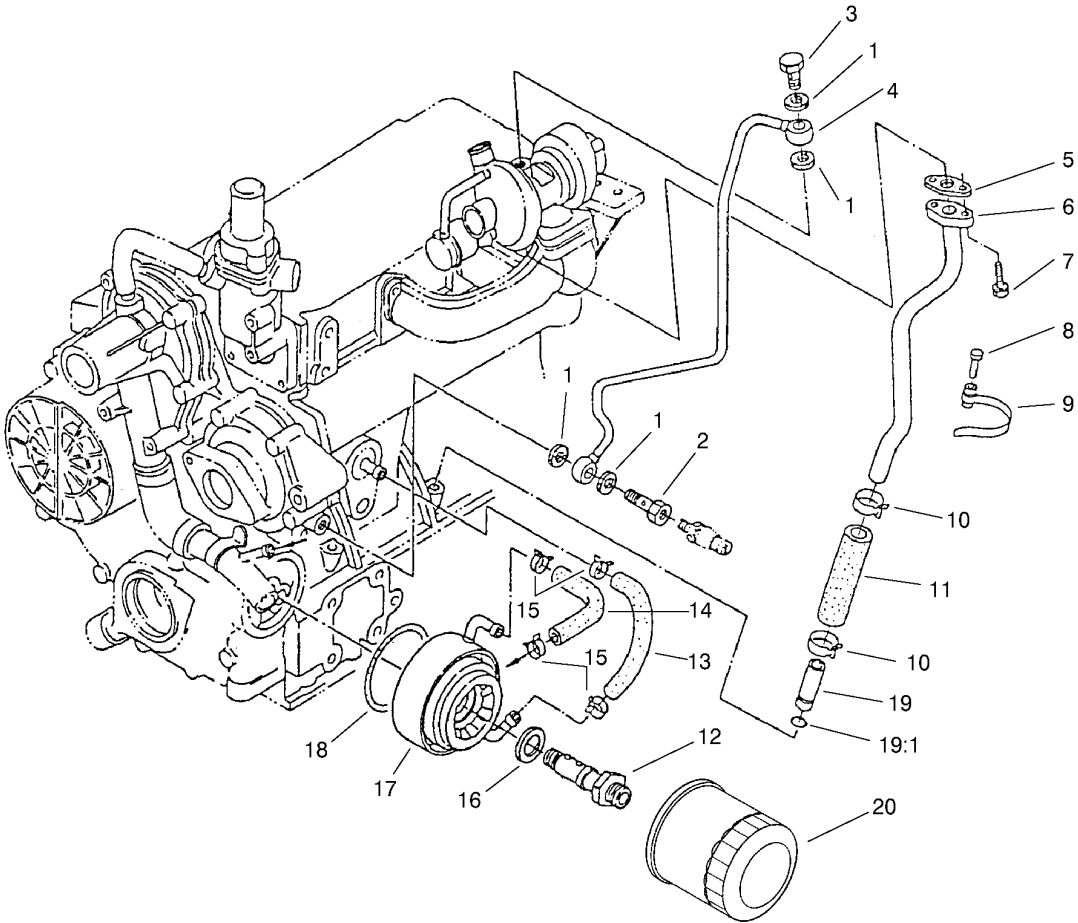
Ref	Part No.	Qty.	Description				
1	99-8344	1	Cylinder Head ASM				
1:1	98-9395	1	Cap-Sealing				
1:2	98-7540	2	Cap-Sealing				
1:3	98-9499	3	Guide-Valve, Inlet				
1:4	98-9500	3	Guide-Valve, Exhaust				
1:5	98-9389	2	Cap-Sealing				
1:6	98-9444	1	Plug				
2	98-9479	12	Bolt-Head, Cylinder				
3	98-9613	1	Gasket-Head, Cylinder				
4	98-7509	1	O-Ring				
5	98-9647	2	Bolt-Head, Cylinder				



Grease and Oil Filter Assembly

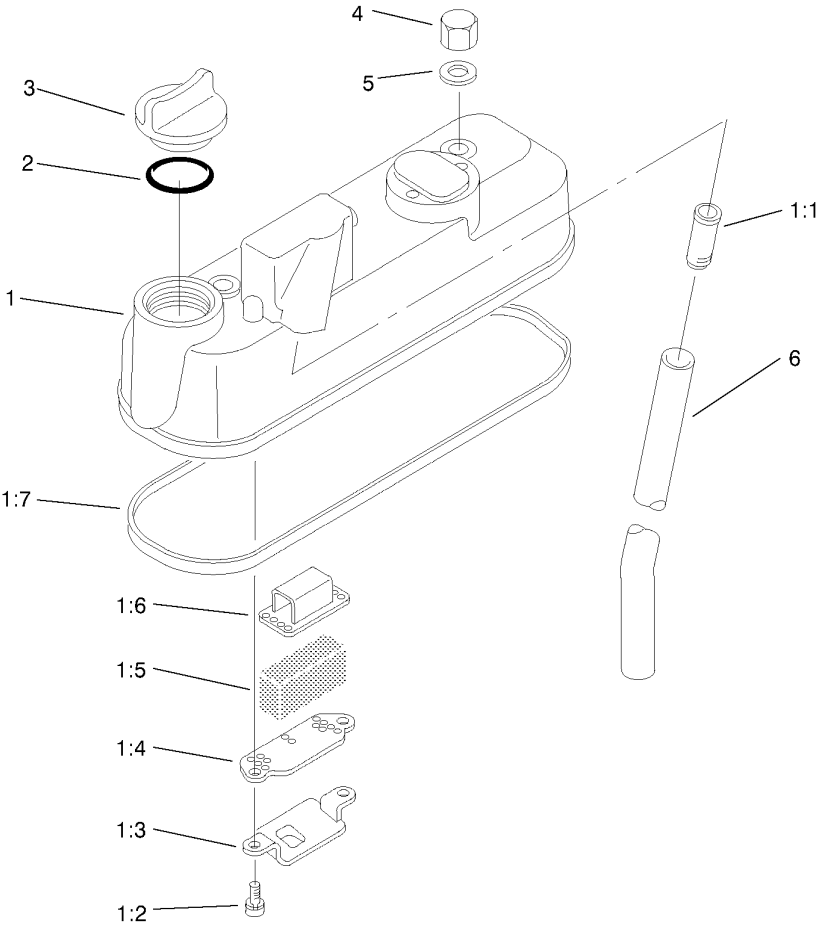
Ref	Part No.	Qty.	Description
1	98-7572	1	Nut
2	98-9367	1	Washer-Spring
3	98-9363	1	Stud
4	98-9362	2	Stud
5	99-3462	1	Gear Case ASM
5:1	98-9592	5	Screw
5:2	98-9541	1	Cover-Pump, Oil
5:3	98-9540	1	Oil Pump Rotor ASM
5:4	98-9544	1	Spring
5:5	98-9380	1	Ball
5:6	98-9543	1	Seat-Valve
5:9	98-9598	2	Plug
6	98-9633	1	Gasket-Case, Gear
7	98-9372	2	O-Ring
8	98-7547	2	O-Ring
9	98-9356	2	Bolt
10	98-9355	6	Bolt
11	99-3510	2	Bolt
12	98-9482	1	Seal-Oil
13	98-9437	1	Bolt
14	98-7496	3	Bolt
15	99-3515	1	Plug-Gearcase
16	99-3511	1	Bolt
17	99-3450	2	Plug

Ref	Part No.	Qty.	Description
18	99-3451	1	Plug-Packing
19	98-7430	1	O-Ring
20	98-9449	1	Plug-Filler, Oil



Filter, Oil Cooler, and Pipe Assembly

Ref	Part No.	Qty.	Description				
1	99-8346	4	Gasket				
2	98-9417	1	Bolt-Joint, Eye				
3	98-9418	1	Bolt-Joint, Eye				
4	98-9419	1	Oil Pipe ASM				
5	98-9435	1	Gasket-Oil Return, Turbo				
6	98-9461	1	Pipe Line ASM				
7	98-7568	2	Bolt				
8	98-9591	1	Pin-Band				
9	98-9601	1	Clamp-Pipe				
10	98-9714	2	Clamp-Hose				
11	98-9721	1	Pipe-Oil				
12	98-9723	1	Holder ASM				
13	98-9724	1	Pipe-Cooler, Oil				
14	98-9578	1	Pipe-Return, Water				
15	98-9579	4	Band-Pipe				
16	98-9727	1	Collar				
17	98-9728	1	Oil Cooler ASM				
18	98-9729	1	O-Ring				
19	99-8383	1	Oil Pipe ASM				
19:1	98-9722	1	O-Ring				
20	99-8384	1	Filter-Oil				



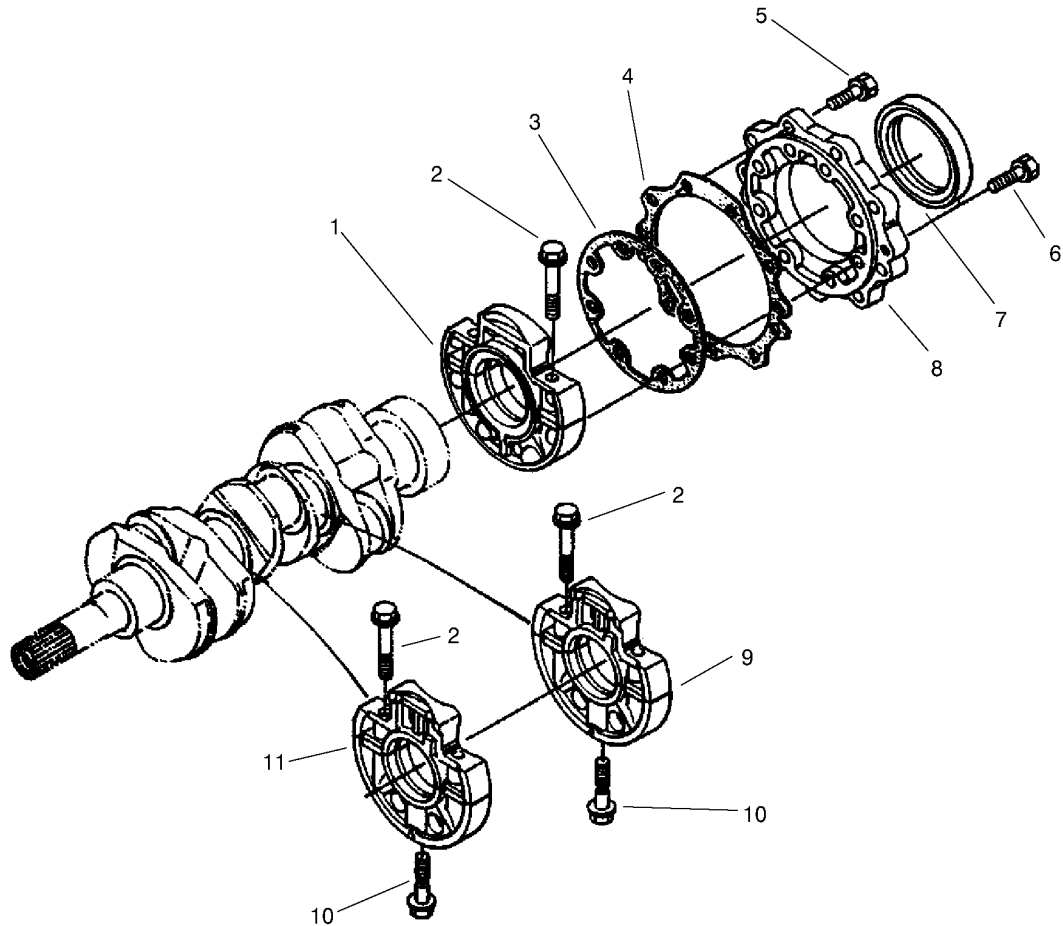
Head Cover Assembly

Ref	Part No.	Qty.	Description				
1	98-9614	1	Cylinder Head Cover ASM				
1:1	98-9492	1	Joint-Pipe, Breather				
1:2	98-9364	2	Screw-W/Washer				
1:3	98-9490	1	Shield-Oil, Breather				
1:4	98-9488	1	Plate-Element, Breather				
1:5	98-9493	1	Element-Breather				
1:6	98-9489	1	Plate-Element, Breather				
1:7	98-9615	1	Gasket-Cover, Head				
2	98-7430	1	O-Ring				
3	98-9449	1	Plug-Filler, Oil				
4	98-9455	3	Nut-Cap				
5	98-9454	3	Gasket				
6	98-9491	1	Pipe-Breather				



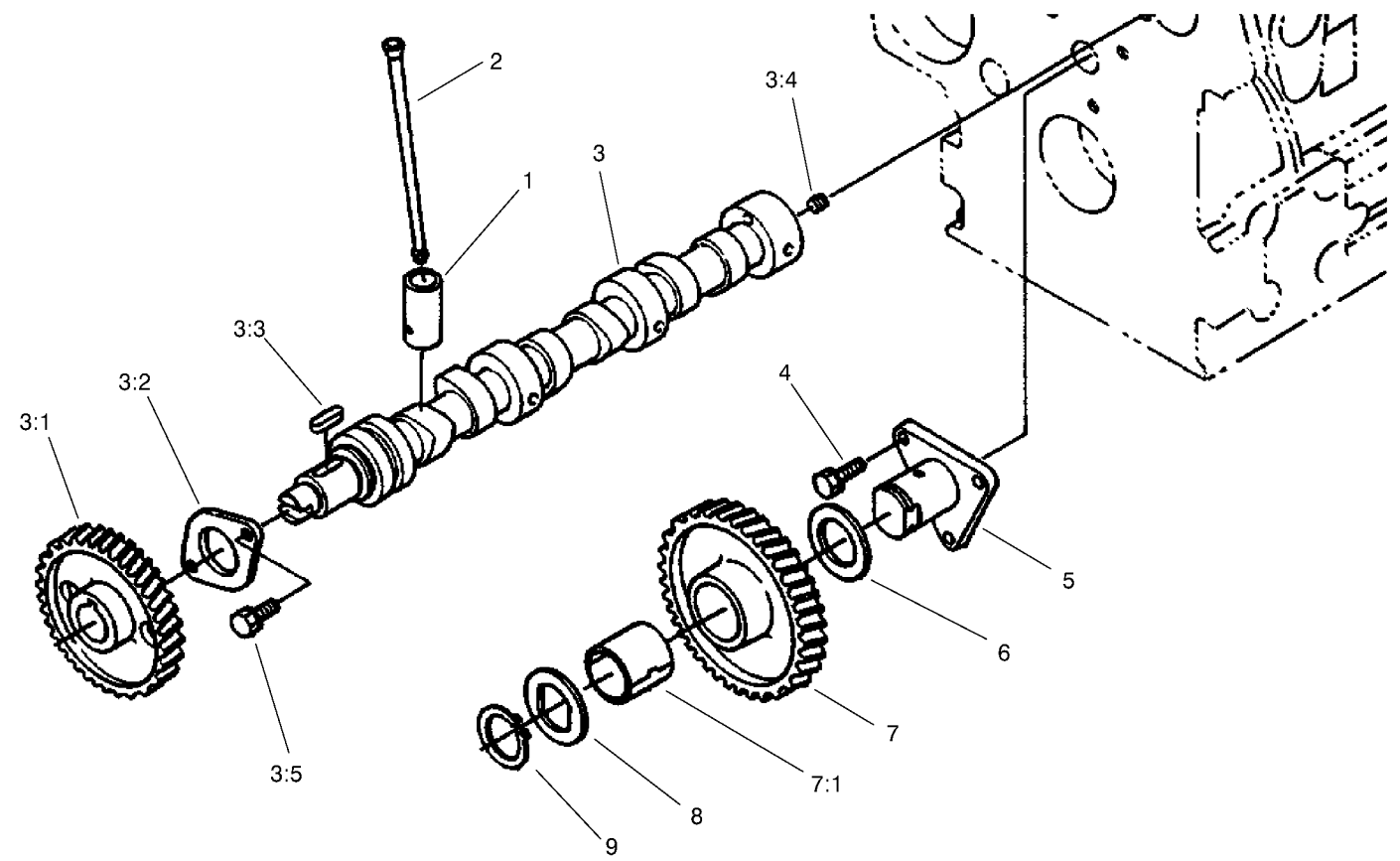
Dipstick Assembly

Ref	Part No.	Qty.	Description
1	104-4801	1	Dipstick



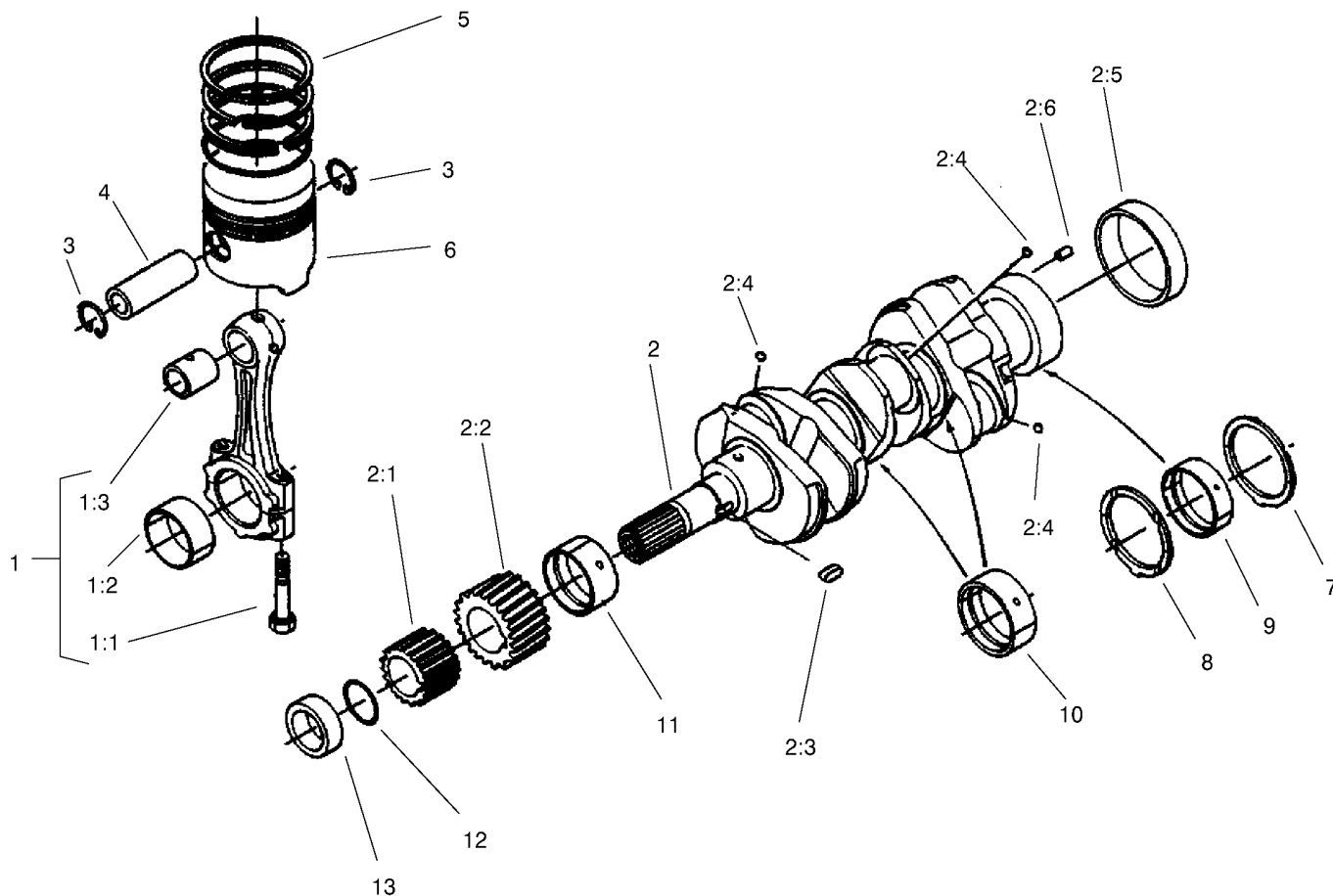
Main Bearing Case Assembly

Ref	Part No.	Qty.	Description				
1	98-9480	1	Main Bearing Case ASM				
2	98-9484	6	Bolt-Case, Bearing				
3	98-9634	1	Gasket-Case, Bearing				
4	98-9635	1	Gasket-Cover, Bearing Case				
5	98-7568	9	Bolt				
6	98-9352	8	Bolt				
7	98-9483	1	Seal-Oil				
8	98-9487	1	Cover-Case, Bearing				
9	99-8360	1	Case-Bearing, Main				
10	98-9485	2	Bolt-Case, Bearing				
11	99-8361	1	Case-Bearing, Main				



Camshaft Assembly

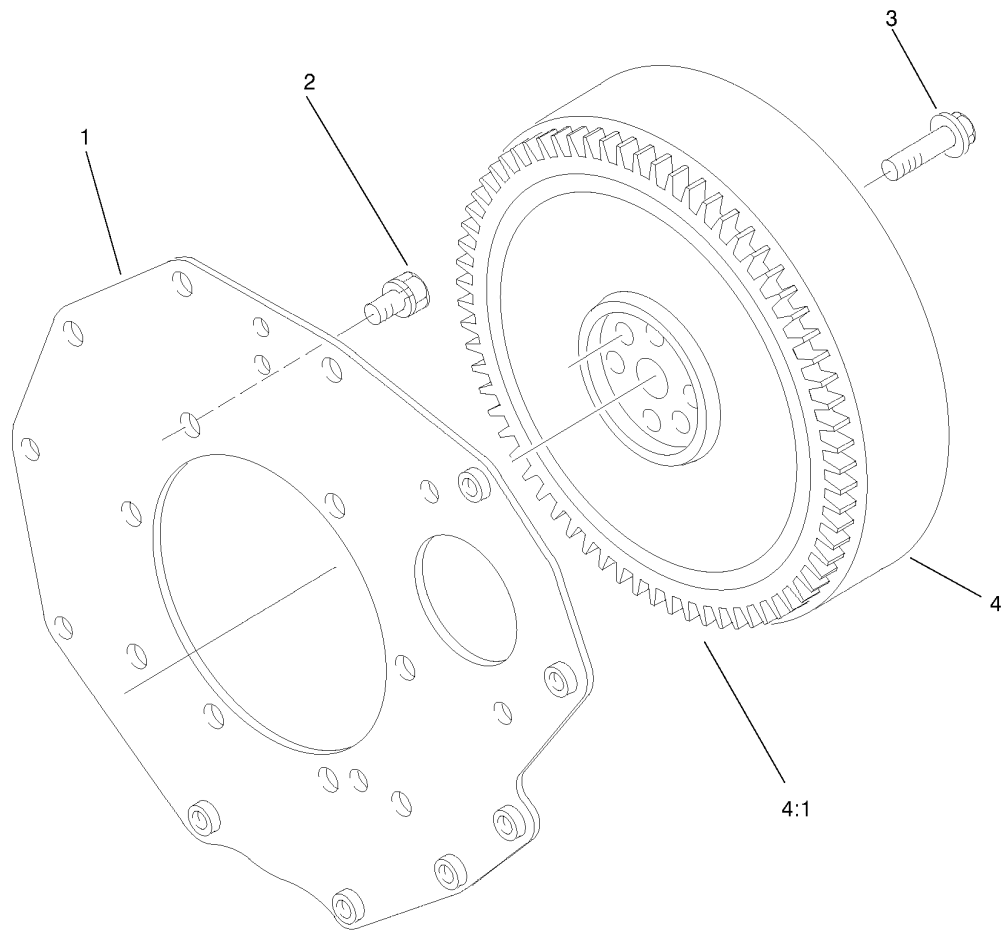
Ref	Part No.	Qty.	Description				
1	98-9616	6	Tappet				
2	98-9509	6	Rod-Push				
3	99-8362	1	Camshaft ASM				
3:1	98-9512	1	Gear-Cam				
3:2	98-9510	1	Stopper-Camshaft				
3:3	98-9378	1	Key-Feather				
3:4	98-7449	1	Screw-Set				
3:5	98-9351	2	Bolt				
4	98-7692	3	Bolt				
5	98-9533	1	Shaft-Gear, Idle				
6	98-9535	1	Collar-Gear, Idle				
7	98-9649	1	Idle Gear ASM				
7:1	98-9650	1	Bushing-Gear, Idle				
8	98-9536	1	Collar-Gear, Idle				
9	98-9534	1	Clip-Circular, Idle Gear				



Piston and Crankshaft Assembly

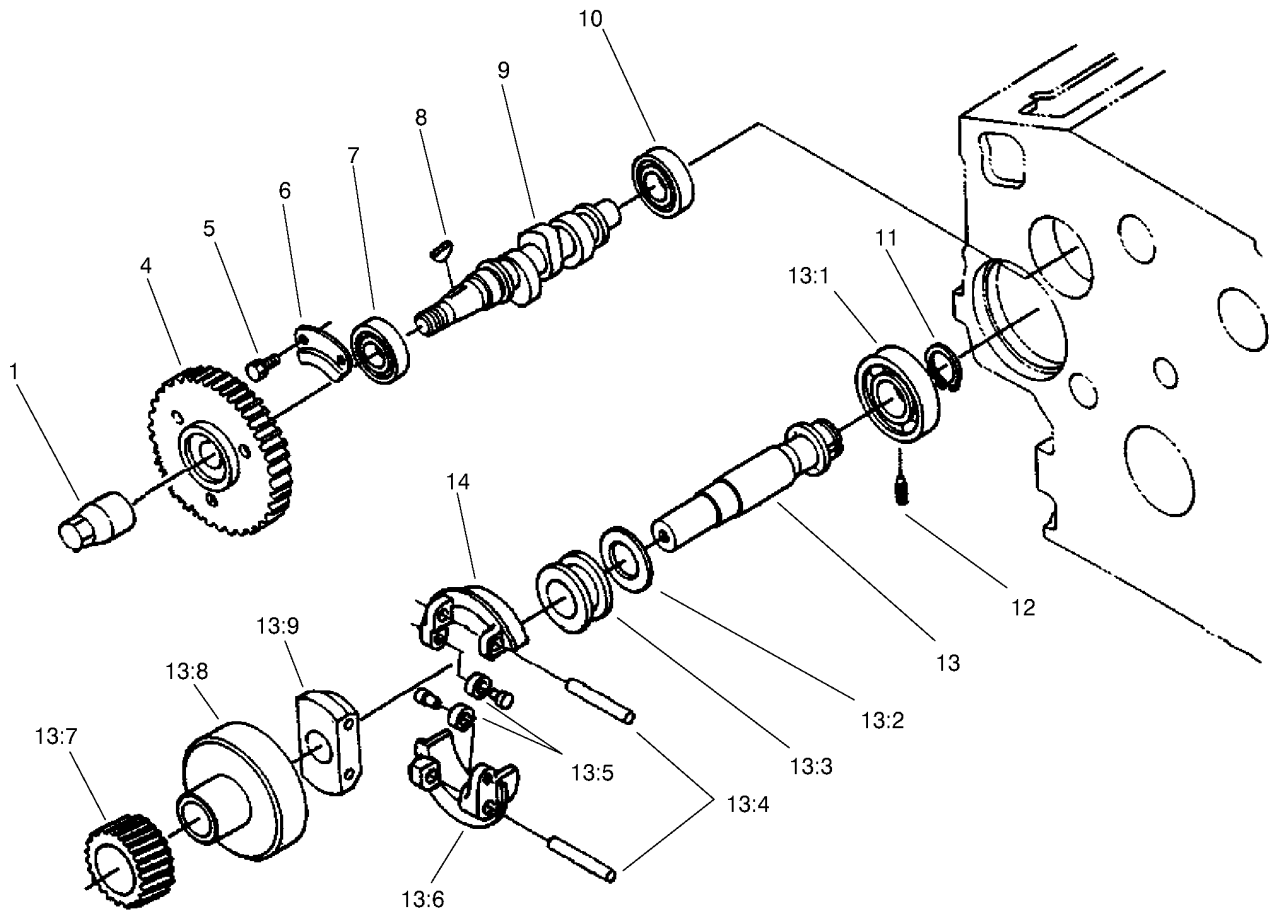
Ref	Part No.	Qty.	Description
1	98-9552	3	Connecting Rod ASM
1:1	98-9517	6	Bolt-Rod, Connecting
1:2	98-9519	3	Bearing-Rod (0.2Mm)
1:2	98-9520	3	Bearing-Rod (0.4Mm)
1:2	98-9553	3	Bearing-Rod (STD)
1:3	98-9515	3	Bushing-Pin, Piston
2	98-9642	1	Crankshaft ASM
2:1	98-9542	1	Gear-Drive, Oil Pump
2:2	98-9532	1	Gear-Crankshaft
2:3	98-9666	1	Key
2:4	98-7473	3	Ball
2:5	98-9522	1	Sleeve-Crankshaft
2:6	98-9375	1	Pin-Straight
3	98-9514	6	Clip-Circular, Piston Pin
4	98-9513	3	Pin-Piston
5	98-9619	3	Piston Ring ASM (0.5Mm)
5	98-9551	3	Piston Ring ASM (STD)
6	98-9550	3	Piston (STD)
6	98-9470	3	Piston (0.5Mm)
7	98-9413	2	Bearing-Thrust (STD)
7	98-9414	2	Bearing-Thrust (0.2Mm)
7	98-9415	2	Bearing-Thrust (0.4Mm)
8	98-9688	2	Bearing-Thrust (STD)
8	98-9689	2	Bearing-Thrust (0.2Mm)

Ref	Part No.	Qty.	Description
8	98-9690	2	Bearing-Thrust (0.4Mm)
9	98-9526	1	Bearing-Main (0.2Mm)
9	98-9527	1	Bearing-Main (0.4Mm)
9	98-9556	1	Bearing-Main (STD)
10	98-9530	2	Bearing-Main (0.2Mm)
10	98-9531	2	Bearing-Main (0.4Mm)
10	98-9555	2	Bearing-Main (STD)
11	98-9528	1	Bearing-Main (0.2Mm)
11	98-9529	1	Bearing-Main (0.4Mm)
11	98-9554	1	Bearing-Main (STD)
12	98-9373	1	O-Ring
13	98-9521	1	Collar-Crankshaft



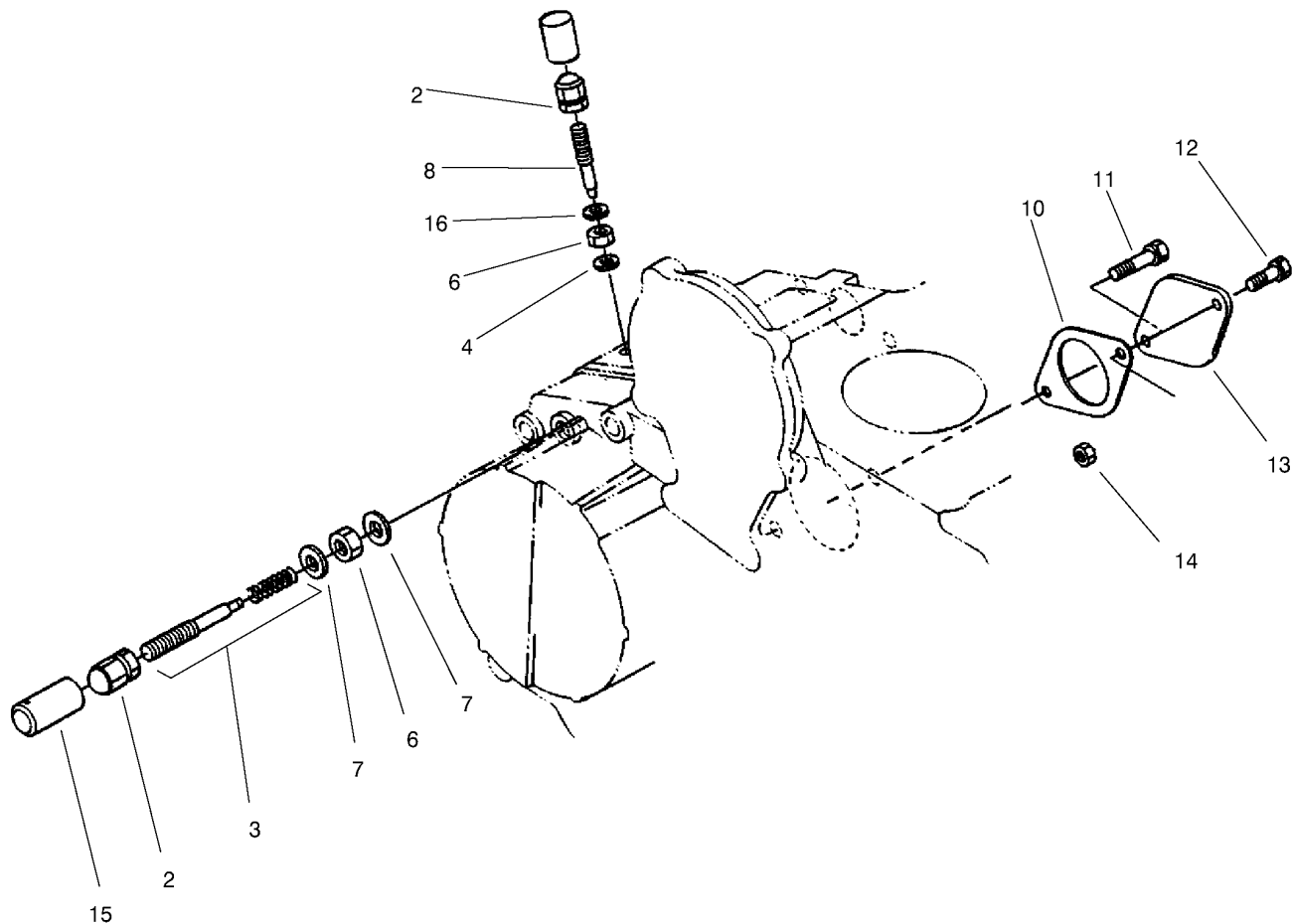
Flywheel Assembly

Ref	Part No.	Qty.	Description				
1	98-9486	1	Plate-End, Rear				
2	98-9392	8	Bolt				
3	98-9537	6	Bolt-Flywheel				
4	98-9691	1	Flywheel ASM				
4:1	98-9394	1	Gear-Ring				



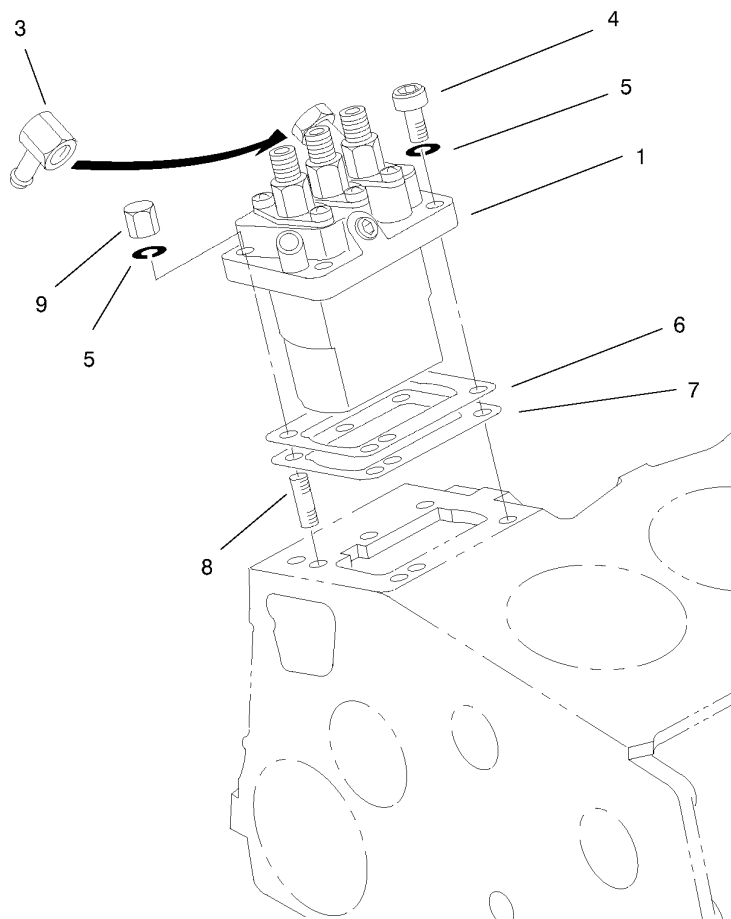
Fuel Camshaft Assembly

Ref	Part No.	Qty.	Description				
1	98-9590	1	Nut-Cap				
4	98-9669	1	Gear-Pump, Injection				
5	98-9350	2	Bolt				
6	98-9511	1	Stopper-Fuel, Camshaft				
7	98-9383	1	Bearing-Ball				
8	98-9595	1	Key-Woodruff				
9	98-9459	1	Camshaft-Fuel				
10	98-9382	1	Bearing-Ball				
11	98-9657	1	Clip-Circular, Governor Shaft				
12	98-9565	1	Screw-Set				
13	98-9644	1	Governor Shaft ASM				
13:1	98-9381	1	Bearing-Ball				
13:2	98-9564	1	Washer-Thrust				
13:3	98-9563	1	Sleeve-Governor				
13:4	98-9560	2	Shaft-Weight, Governor				
13:5	98-9692	2	Roller				
13:6	98-9559	2	Governor Weight ASM				
13:7	98-9673	1	Gear-Governor				
13:8	98-9562	1	Holder-Gear, Governor				
13:9	98-9561	1	Holder-Weight, Governor				
14	98-9559	2	Governor Weight ASM				



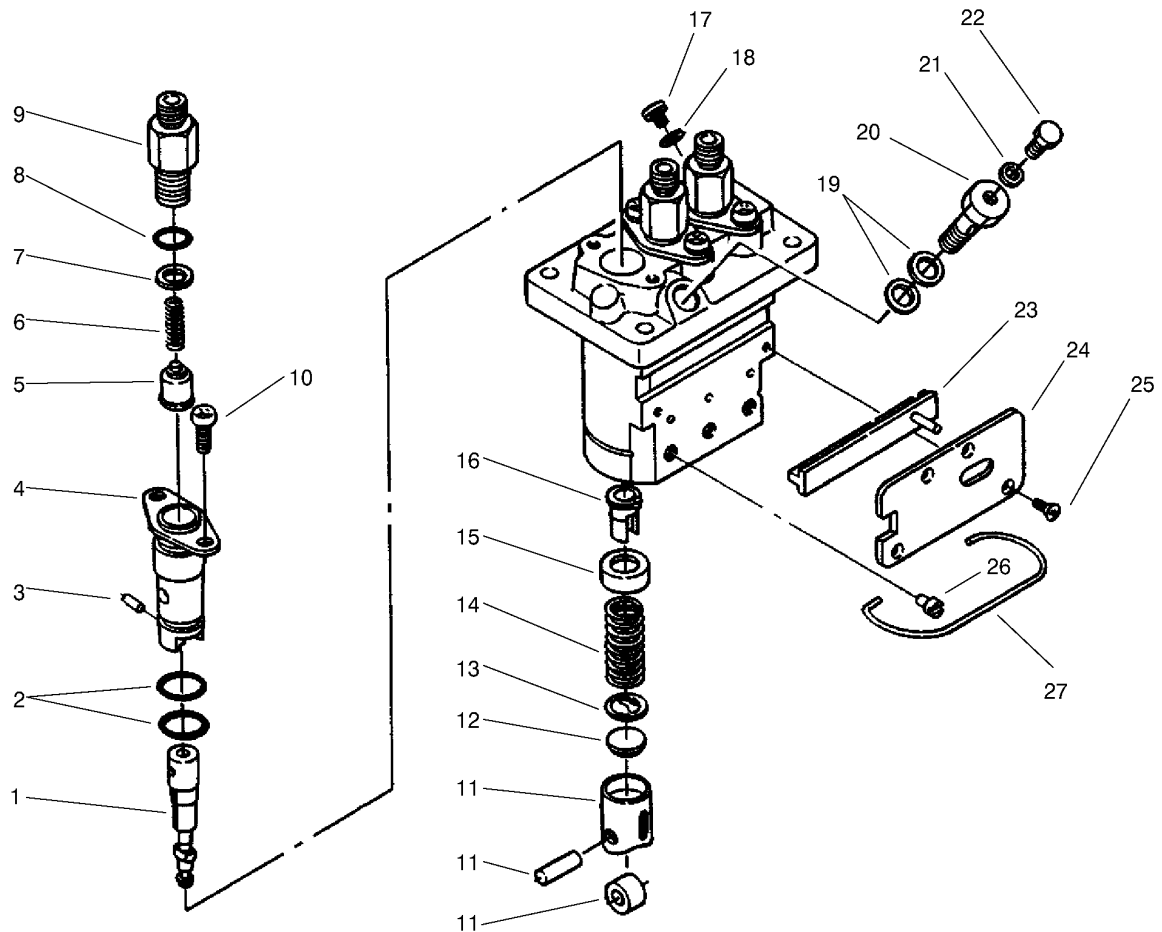
Engine Stop Lever Assembly

Ref	Part No.	Qty.	Description				
2	98-9441	2	Nut-Cap				
3	104-4802	1	Adjusting Bolt ASM				
4	99-8389	1	Gasket				
6	98-9439	2	Nut				
7	98-7654	1	Gasket				
8	98-9557	1	Bolt-Adjusting				
10	98-9674	1	Packing				
11	98-7645	1	Bolt				
12	98-9359	1	Bolt				
13	98-9640	1	Cover-Pump				
14	98-7534	1	Nut				
15	98-9558	1	Cap				
16	99-8388	1	Gasket				



Injection Pump Installation Assembly

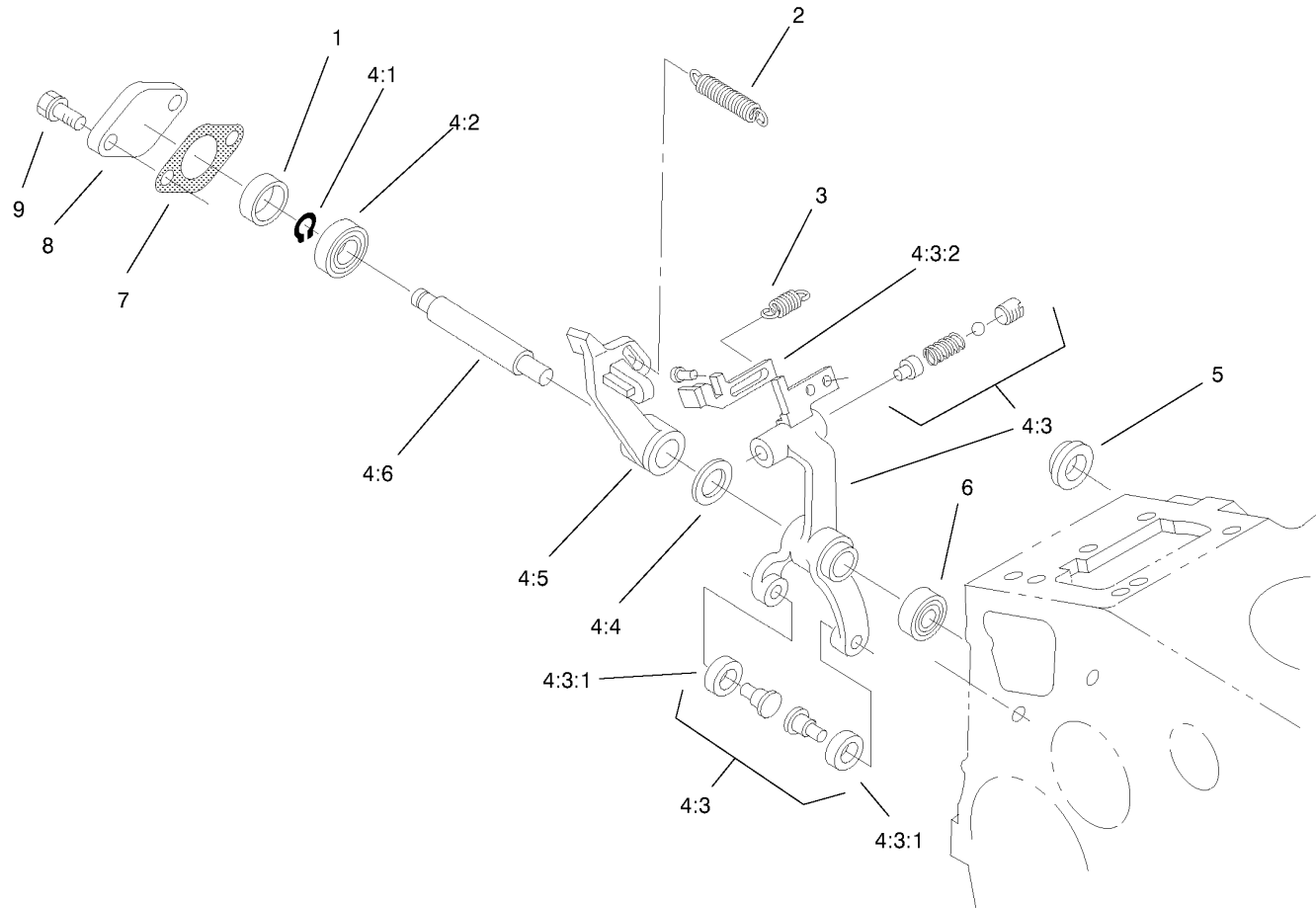
Ref	Part No.	Qty.	Description				
1	98-9643	1	Injection Pump ASM				
3	98-9596	1	Joint-Eye				
4	98-9361	2	Bolt-HSH				
5	98-9367	4	Washer-Spring				
6	98-9457	1	Shim-Injection (0.25Mm)				
6	98-9456	1	Shim-Injection (0.20Mm)				
7	98-9458	1	Shim-Injection (0.30Mm)				
8	98-9438	2	Stud				
9	98-9440	2	Nut-Cap				



Injection Pump Assembly No. 98-9643

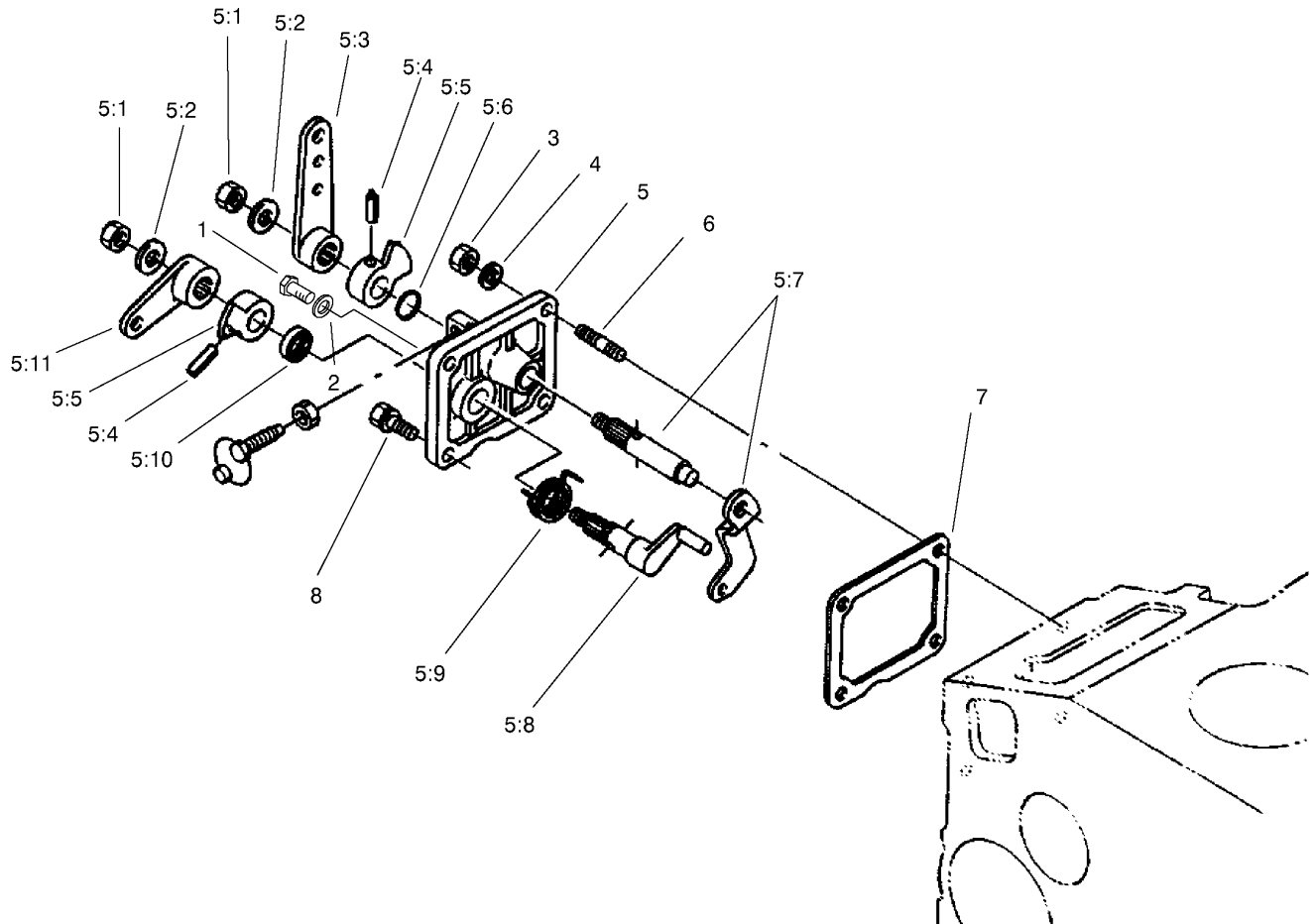
Ref	Part No.	Qty.	Description
1	98-9462	3	Element-Pump
2	98-9423	6	O-Ring
3	98-9443	3	Pin-Joint
4	98-9434	3	Flange-Sleeve
5	98-9421	3	Valve-Delivery
6	98-9424	3	Spring-Valve, Delivery
7	98-9425	3	Gasket-Valve, Delivery
8	98-9447	3	O-Ring
9	98-9652	3	Holder-Valve, Delivery
10	98-9452	6	Screw
11	98-9422	3	Tappet ASM
12	98-9433	3	Shim
13	98-9429	3	Seat-Spring, Lower
14	98-9428	3	Spring-Plunger
15	98-9427	3	Seat-Spring, Upper
16	98-9432	3	Sleeve-Control
17	98-9466	1	Plug
18	98-9451	1	Gasket
19	98-9445	1	Gasket
20	98-9464	1	Bolt-Joint
21	98-9446	1	Gasket
22	98-9430	1	Screw
23	98-9463	1	Control-Rack
24	98-9465	1	Plate

Ref	Part No.	Qty.	Description
25	98-9442	4	Screw
26	98-9426	3	Pin-Guide, Tappet
27	98-9450	1	Pin-Clamp



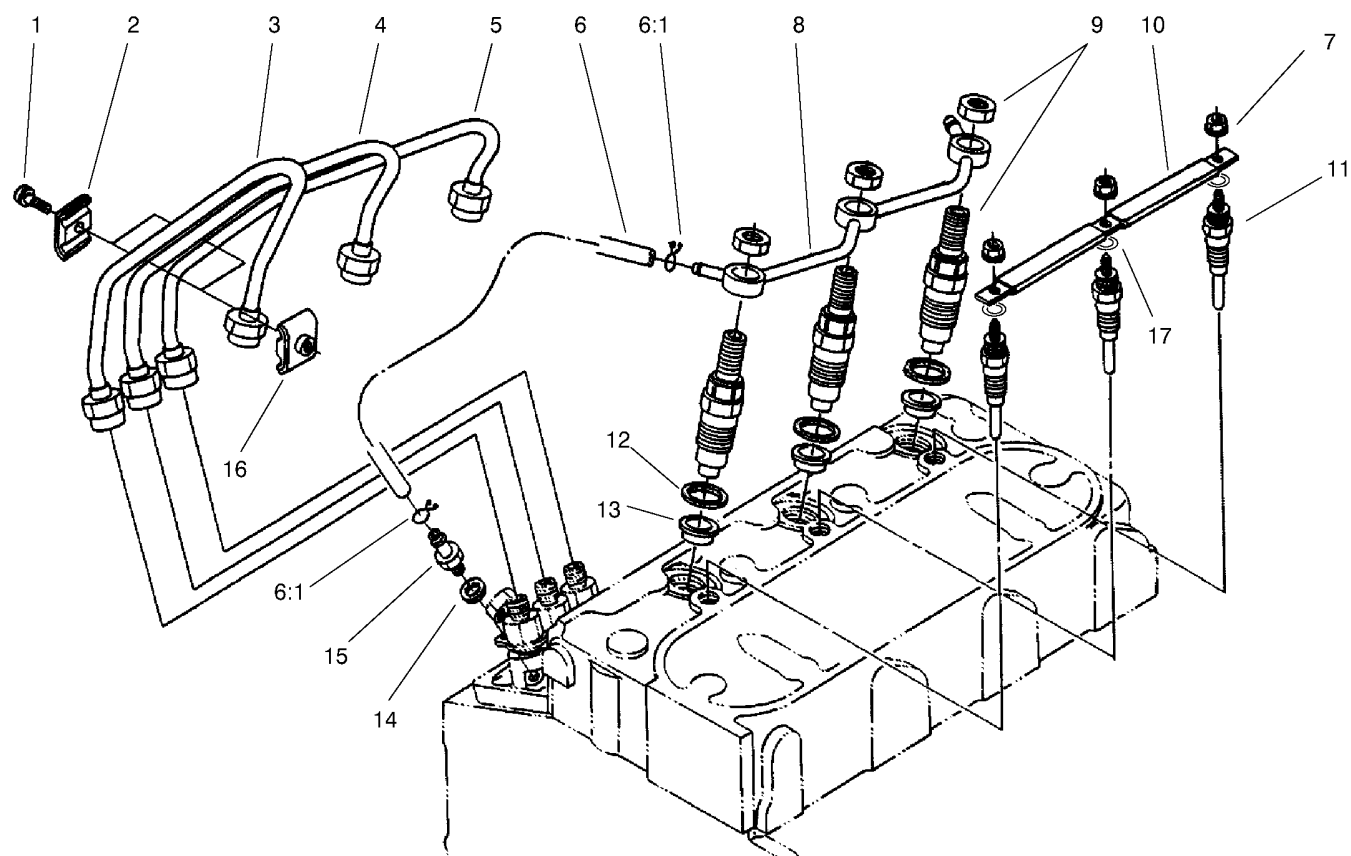
Governor Assembly

Ref	Part No.	Qty.	Description				
1	98-9567	1	Collar				
2	98-9681	1	Spring-Governor				
3	98-9645	1	Spring-Start				
4	98-9680	1	Fork Lever ASM				
4:1	98-9369	1	Clip-Circular, External				
4:2	98-9570	1	Bearing-Miniaturize				
4:3	99-8380	1	Fork Lever ASM				
4:3:1	98-9692	2	Roller				
4:3:2	98-9660	1	Lever-Thrust				
4:4	98-9593	1	Washer-Plain				
4:5	98-9659	1	Lever-Fork				
4:6	98-9566	1	Shaft-Lever, Fork				
5	98-9568	1	Collar				
6	98-9571	1	Bearing-Miniaturize				
7	98-9682	1	Gasket				
8	98-9569	1	Cover-Shaft, Fork Lever				
9	98-9351	2	Bolt				



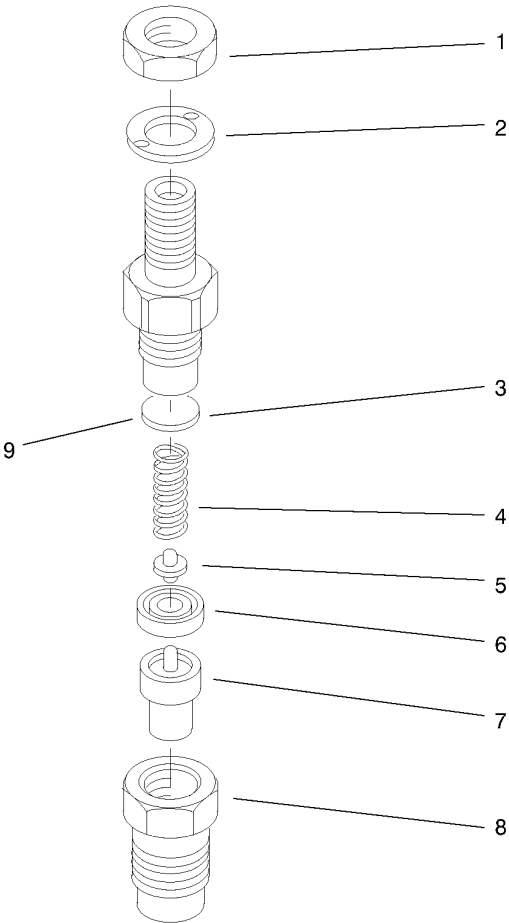
Speed Control Plate Assembly

Ref	Part No.	Qty.	Description				
1	99-8348	1	Bolt				
2	98-7654	1	Gasket				
3	98-7572	2	Nut				
4	98-9367	2	Washer-Spring				
5	98-9661	1	Control Plate ASM				
5:1	98-9589	2	Nut				
5:2	98-9594	2	Washer-Plain				
5:3	98-9662	1	Lever-Control, Speed				
5:4	98-7602	2	Pin-Spring				
5:5	98-9572	2	Lever-Control, Speed				
5:6	98-9371	1	O-Ring				
5:7	98-9658	1	Governor Lever ASM				
5:8	98-9664	1	Shaft-Lever, Stop				
5:9	98-9472	1	Spring-Return				
5:10	98-7601	1	Seal-Oil				
5:11	98-9663	1	Lever-Stop, Engine				
6	98-9362	2	Stud				
7	98-9637	1	Gasket				
8	98-7692	1	Bolt				



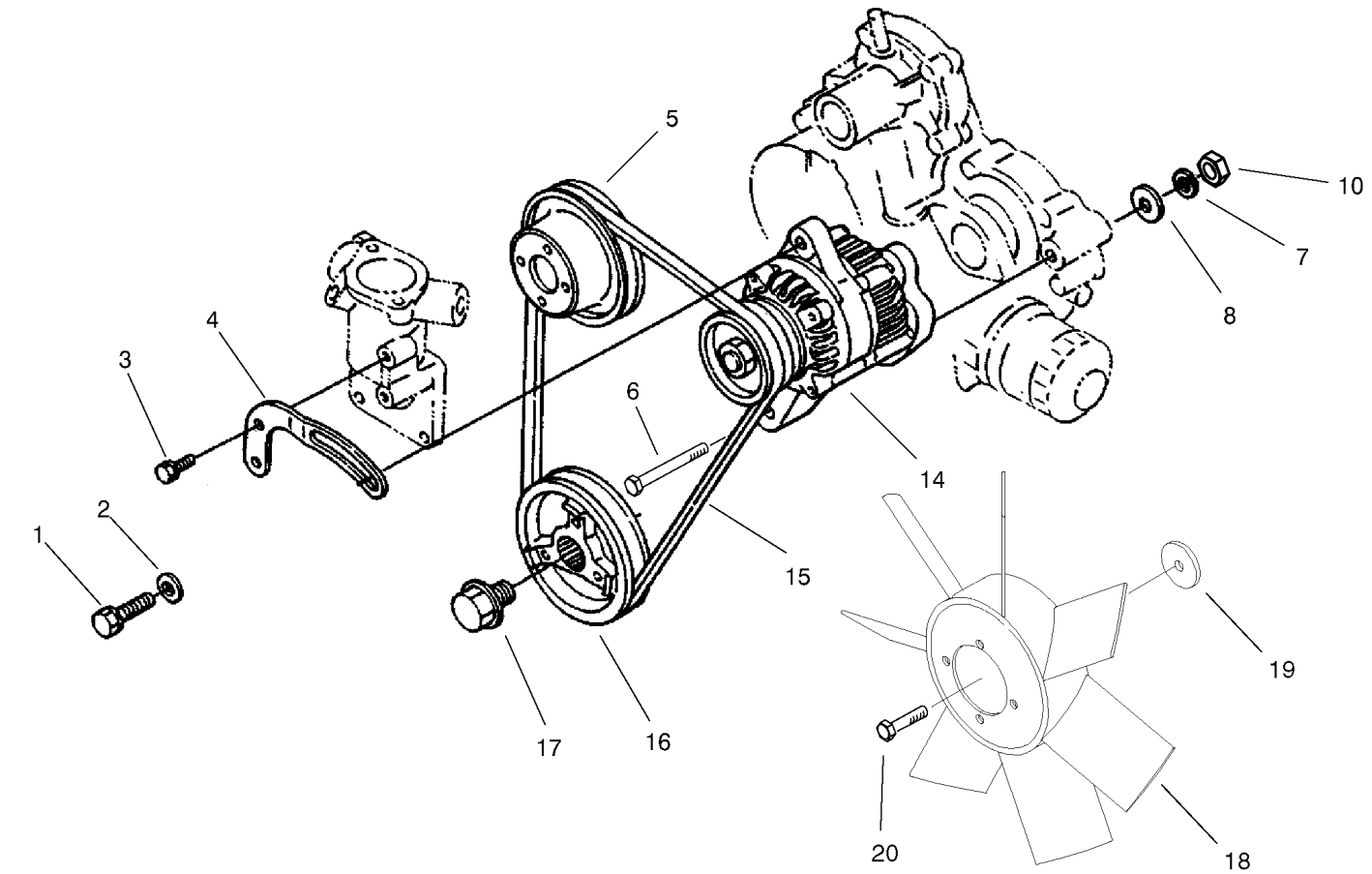
Nozzle Holder and Glow Plug Assembly

Ref	Part No.	Qty.	Description				
1	98-7684	2	Screw-W/Washer				
2	98-7683	2	Clamp-Pipe				
3	98-9622	1	Pipe-Injection				
4	98-9654	1	Pipe-Injection				
5	98-9655	1	Pipe-Injection				
6	98-9624	1	Overflow Pipe ASM				
6:1	98-7671	2	Clip-Pipe				
7	99-8377	3	Nut-Flange				
8	98-9621	1	Overflow Pipe ASM				
9	98-9468	3	Nozzle Holder ASM				
10	98-9631	1	Cord-Plug, Glow				
11	98-9623	3	Plug-Glow				
12	98-7676	3	Gasket				
13	98-7677	3	Seal				
14	98-7654	1	Gasket				
15	98-9431	1	Screw-Bleeder				
16	98-7682	2	Clamp-Pipe				
17	99-8378	3	Washer-Plain				



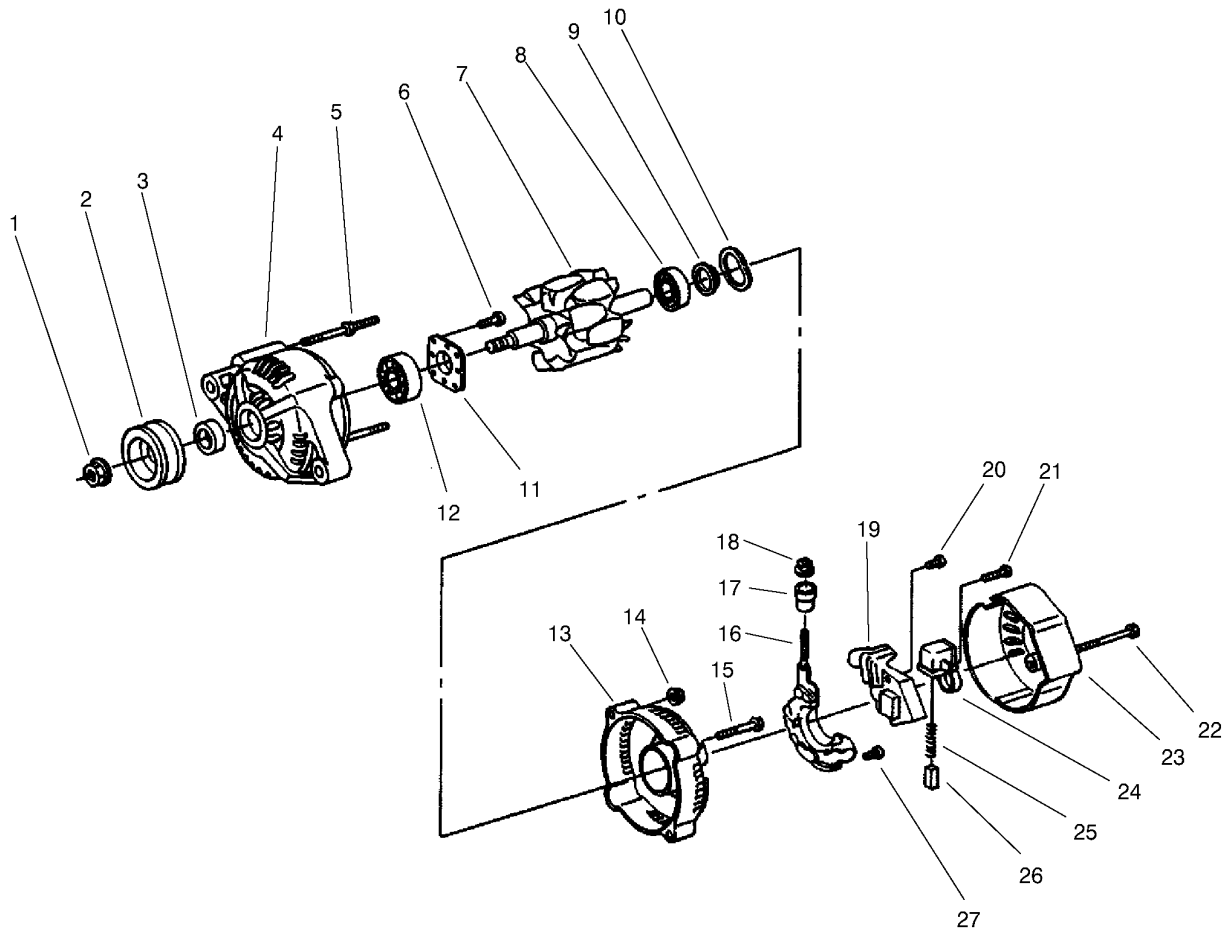
Nozzle Holder Assembly No. 98-9468

Ref	Part No.	Qty.	Description				
1	99-8301	3	Nut				
2	99-8307	3	Washer-Plain				
3	99-8302	3	Washer-Adjusting				
4	99-8303	3	Spring-Nozzle				
5	99-8305	3	Rod-Push				
6	99-8304	3	Spacer-Distance				
7	99-8308	3	Piece-Nozzle				
8	99-8306	3	Nut-Nozzle				
9	99-8317	3	Washer-Adjust (0.56Mm)				
9	99-8318	3	Washer-Adjust (0.58Mm)				
9	99-8319	3	Washer-Adjust (0.80Mm)				
9	99-8310	3	Washer-Adjust (0.10Mm)				
9	99-8309	3	Adjusting Washer ASM				
9	99-8316	3	Washer-Adjust (0.54Mm)				
9	99-8315	3	Washer-Adjust (0.52Mm)				
9	99-8314	3	Washer-Adjust (0.50Mm)				
9	99-8313	3	Washer-Adjust (0.40Mm)				
9	99-8312	3	Washer-Adjust (0.30Mm)				
9	99-8311	3	Washer-Adjust (0.20Mm)				



Alternator and Pulley Assembly

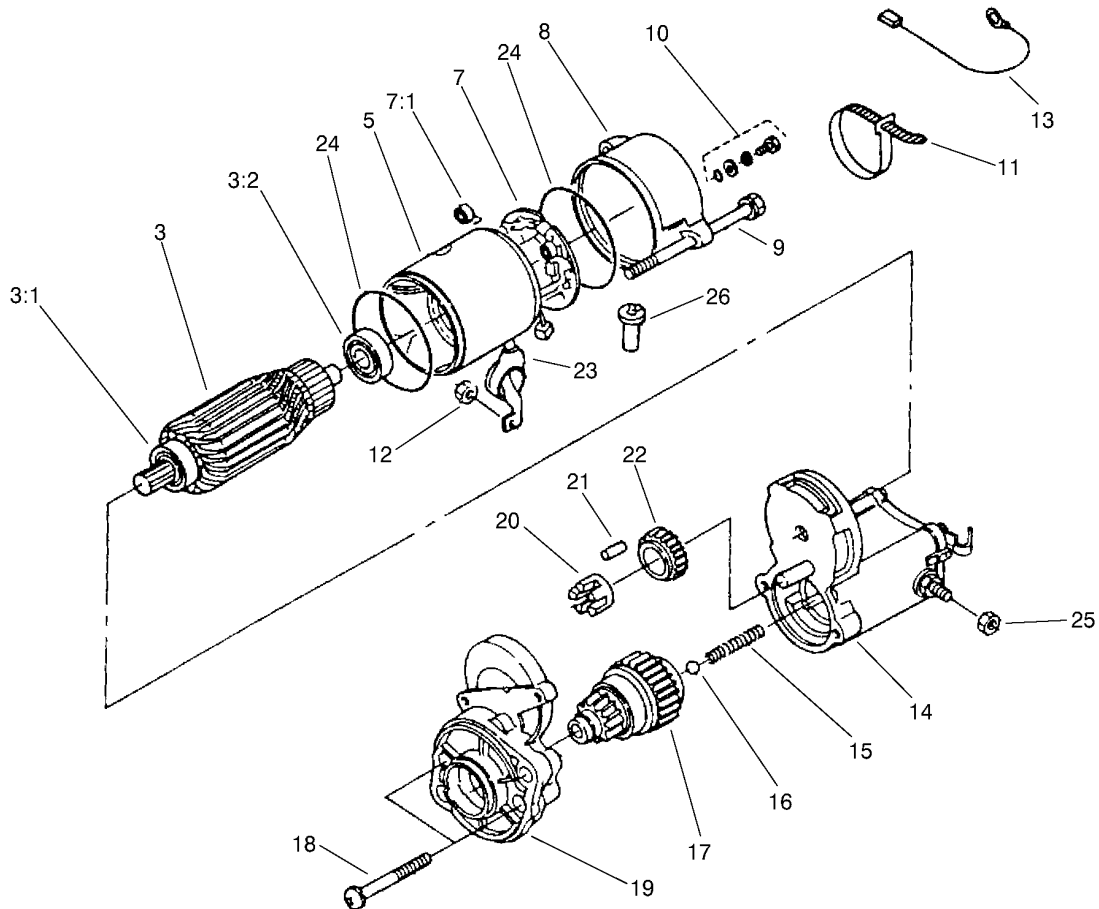
Ref	Part No.	Qty.	Description				
1	98-7697	1	Bolt				
2	98-7698	1	Washer-Plain				
3	98-7692	1	Bolt				
4	98-9573	1	Stay-Dynamo				
5	98-9584	1	Pulley-Fan				
6	98-9360	1	Bolt				
7	98-9368	1	Washer-Spring				
8	98-9366	1	Washer-Plain				
10	98-7737	1	Nut				
14	98-9474	1	Alternator ASM				
15	98-9676	1	V-Belt				
16	99-3456	1	Pulley-Drive, Fan				
17	98-9585	1	Bolt				
18	104-4246	1	Fan-Engine				
19	104-4247	1	Spacer-Fan				
20	33103-020	4	Screw-HHF				



Alternator Assembly No. 98-9474

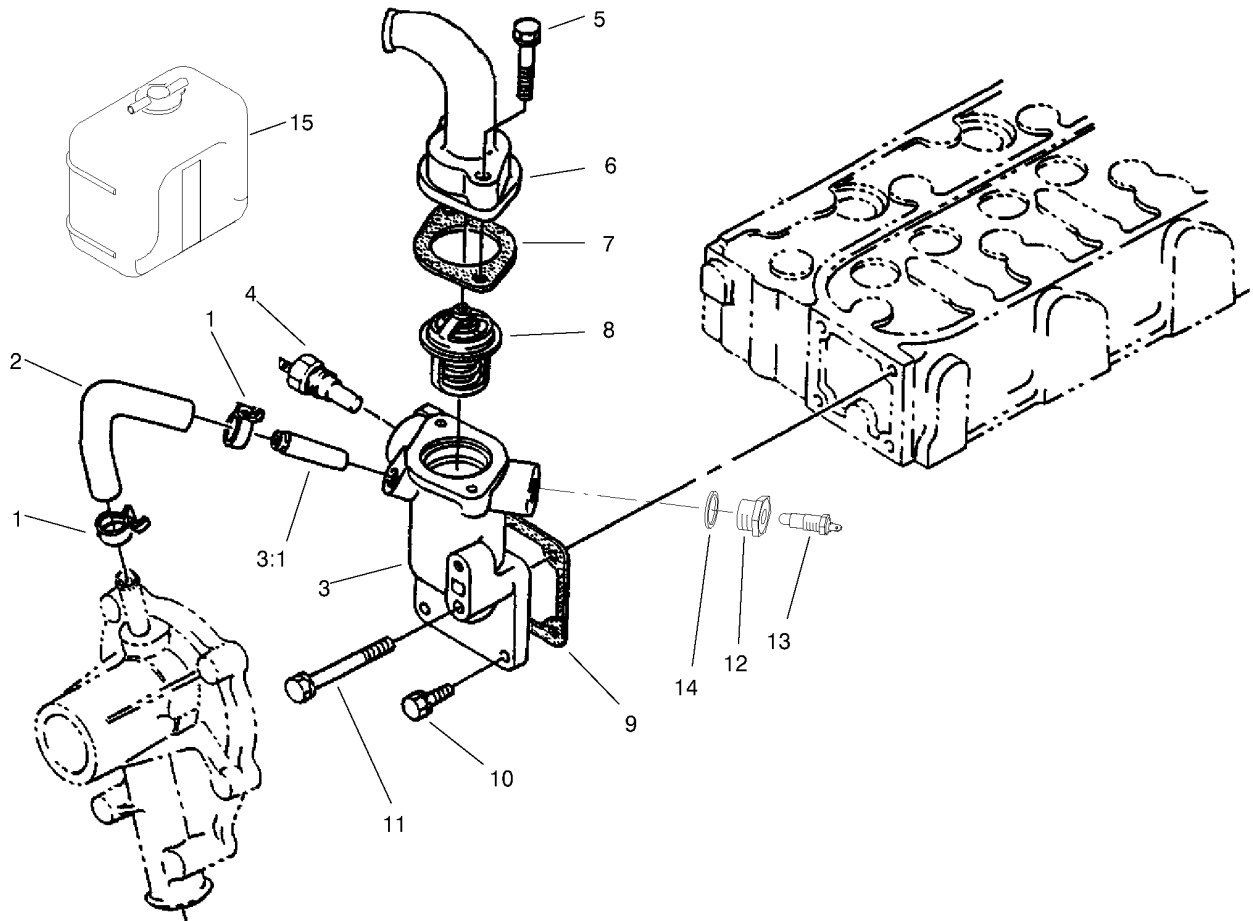
Ref	Part No.	Qty.	Description
1	98-7708	1	Nut
2	98-9453	1	Pulley-Dynamo
3	98-7709	1	Collar
4	98-7714	1	Frame-End, Drive
5	98-7717	2	Bolt-Through
6	98-7716	4	Screw-Head, Round
7	98-7710	1	Rotor
8	98-7712	1	Bearing-Ball
9	98-7711	1	Cover-Bearing
10	98-7713	1	Washer-Thrust
11	98-7715	1	Plate-Retainer
12	98-7718	1	Bearing-Ball
13	98-7719	1	Frame-End
14	98-7730	2	Nut
15	98-7731	2	Bolt
16	98-7721	1	Rectifier ASM
17	98-7722	1	Bushing-Insulation
18	98-7732	1	Nut
19	98-7733	1	Regulator ASM
20	98-7726	2	Screw-Head, Round
21	98-7728	1	Screw-Head, Round
22	98-7729	3	Bolt
23	98-7720	1	Cover-End
24	98-7723	1	Holder-Brush

Ref	Part No.	Qty.	Description
25	98-7725	2	Spring-Brush
26	98-7724	2	Brush
27	98-7727	6	Screw-Head, Round



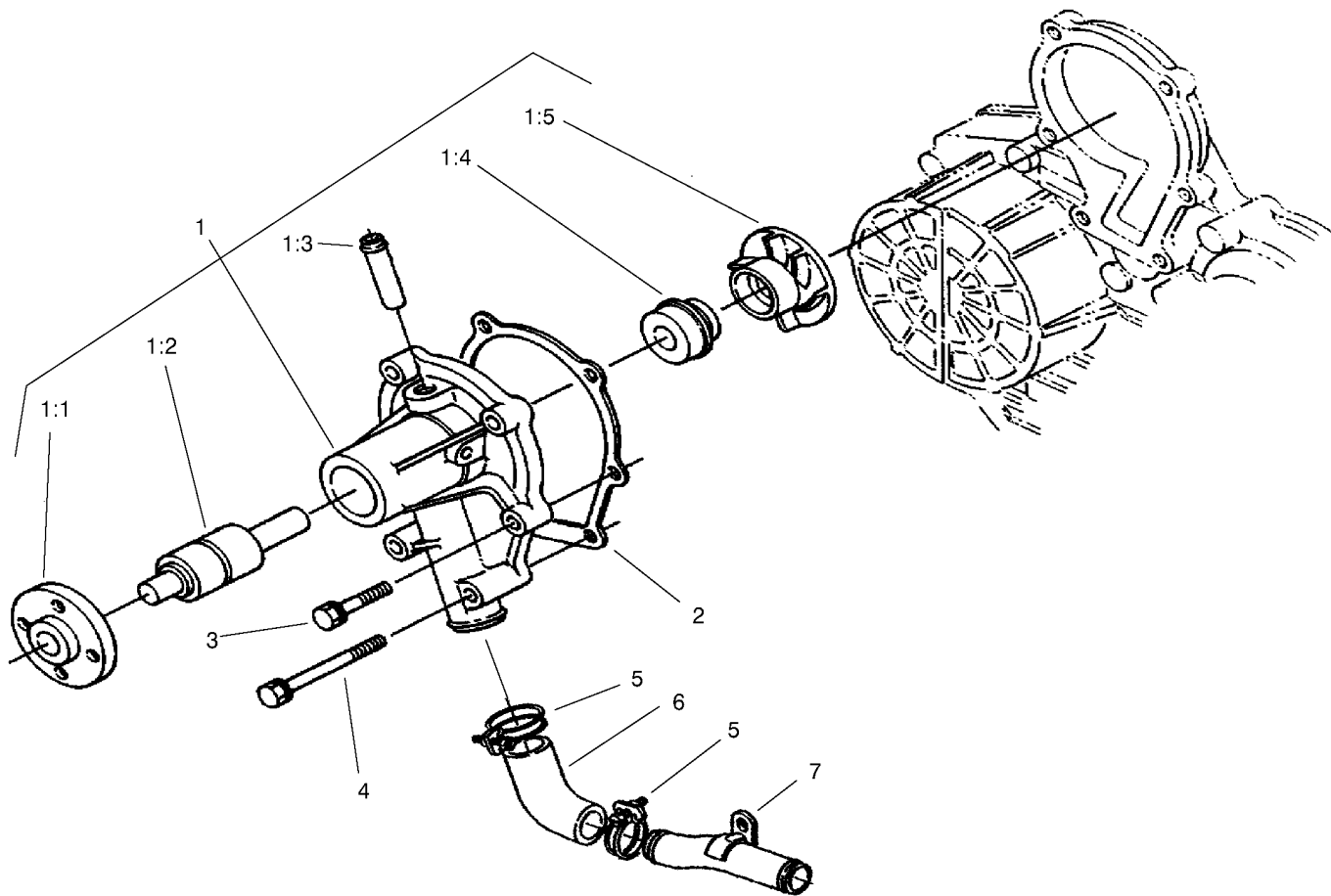
Starter Assembly No. 98-9705

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
3	98-7742	1	Armature ASM	26	98-7759	1	Pipe-Drain
3:1	98-7743	1	Bearing				
3:2	98-7744	1	Bearing				
5	98-7741	1	Yoke ASM				
7	98-7749	1	Brush Holder ASM				
7:1	98-7750	4	Spring-Brush				
8	99-8370	1	Frame-End				
9	98-9549	2	Bolt				
10	98-7758	2	Bolt ASM				
11	98-9712	1	Band-Cover				
12	99-8371	1	Nut-Hex				
13	98-9711	1	Cord-Solenoid, Stop				
14	99-8372	1	Magnetic Switch ASM				
15	98-7754	1	Spring				
16	98-7755	1	Ball				
17	99-8373	1	Clutch-Running, Over				
18	98-7756	2	Bolt				
19	99-8374	1	Frame-End, Drive				
20	98-7752	1	Retainer				
21	98-7753	5	Roller				
22	98-7751	1	Gear				
23	99-8375	1	Cover				
24	98-7757	2	O-Ring				
25	99-8376	1	Nut-Hex				



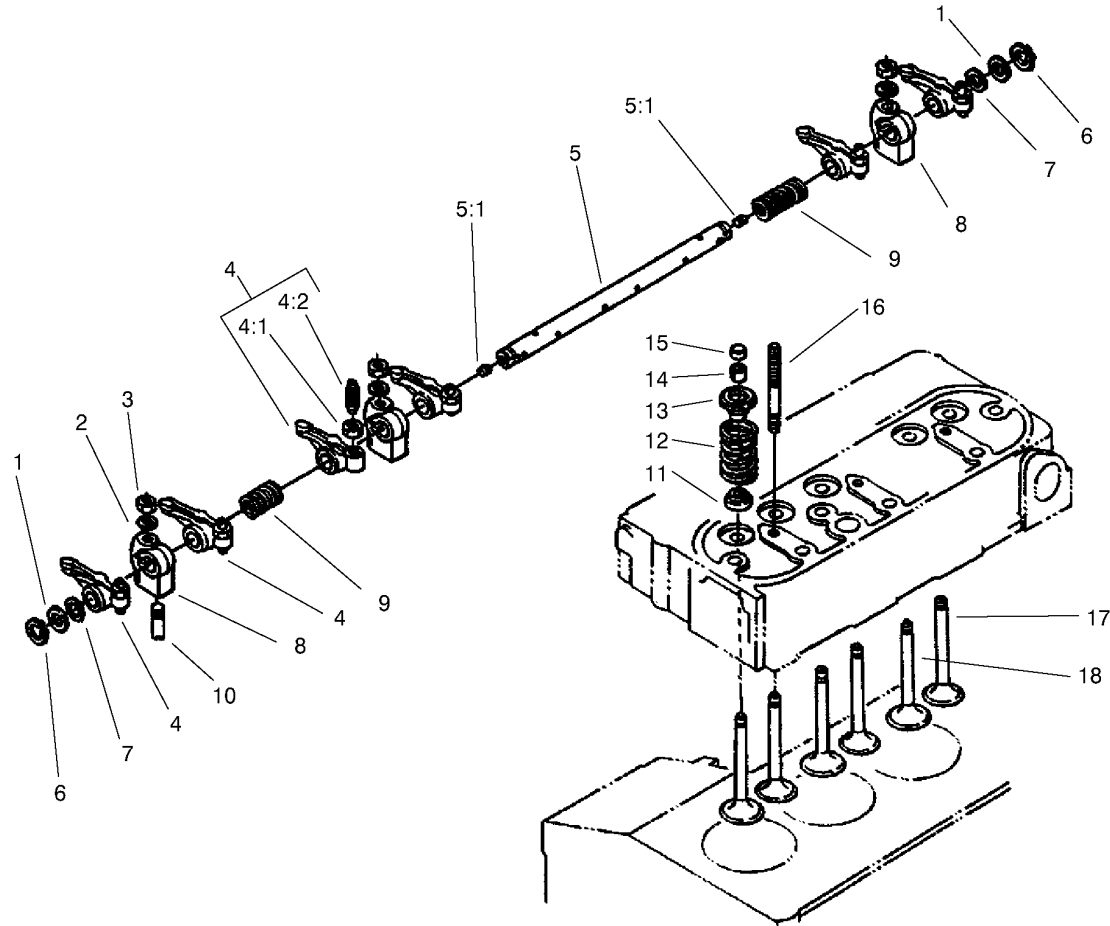
Water Flange and Thermostat Assembly

Ref	Part No.	Qty.	Description				
1	98-9579	2	Band-Pipe				
2	98-9578	1	Pipe-Return, Water				
3	98-9713	1	Water Flange ASM				
3:1	98-9580	1	Pipe-Return, Water				
4	98-9719	1	Thermoswitch				
5	98-7777	2	Bolt				
6	104-4804	1	Outlet-Water				
7	98-7776	1	Gasket				
8	98-7778	1	Thermostat ASM				
9	98-9638	1	Gasket-Flange, Water				
10	98-7692	3	Bolt				
11	98-9356	1	Bolt				
12	99-3581	1	Adapter				
13	99-3582	1	Thermoswitch				
14	99-3583	1	Packing				
15	104-9318	1	Bottle-Overflow, Water				



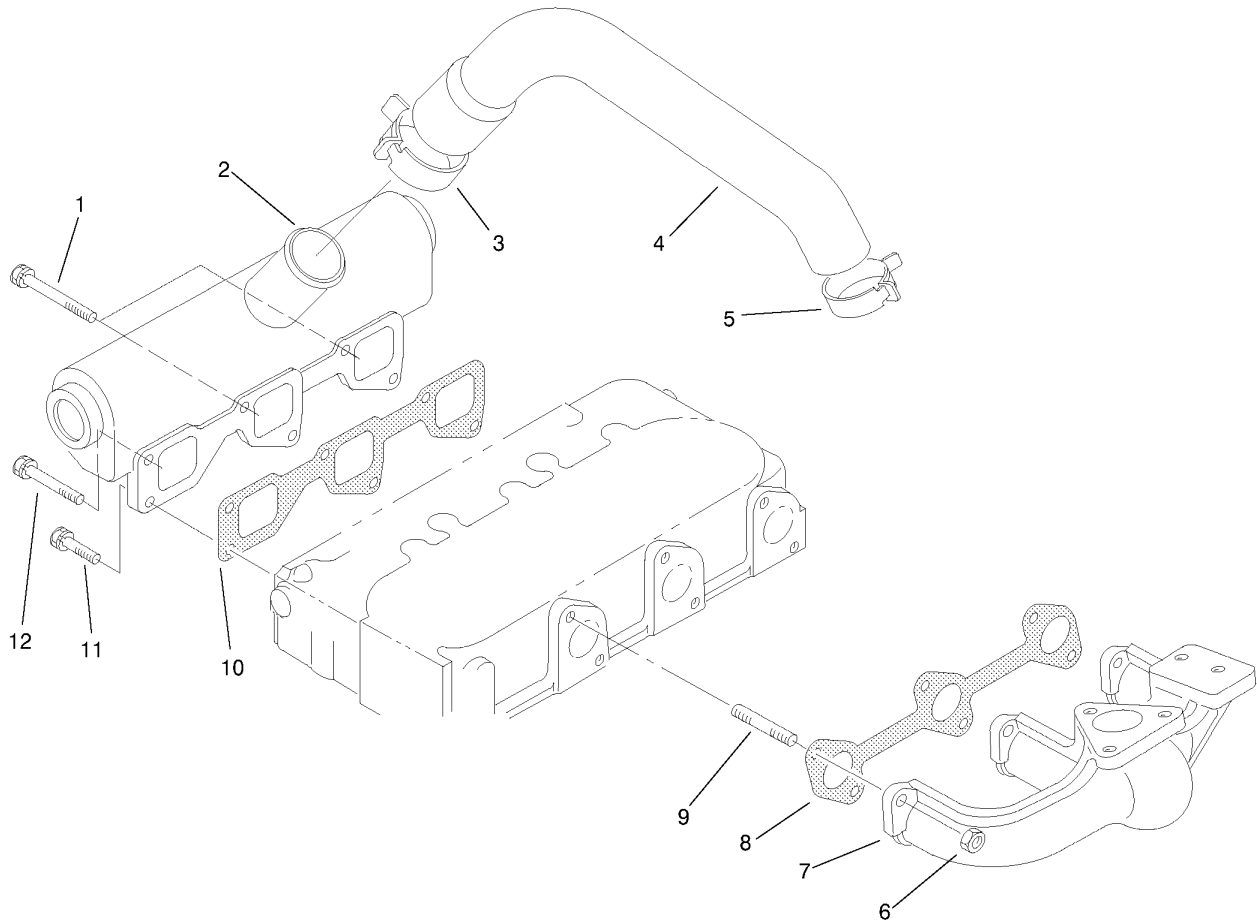
Water Pump Assembly

Ref	Part No.	Qty.	Description				
1	99-3455	1	Water Pump ASM				
1:1	99-3516	1	Flange-Pump, Water				
1:2	99-3517	1	Bearing-Pump, Water				
1:3	98-9577	1	Pipe-Return, Water				
1:4	99-3518	1	Water Pump Seal ASM				
1:5	99-3519	1	Impeller-Pump, Water				
2	99-3454	1	Gasket-Pump, Water				
3	33103-030	1	Screw-HHF				
4	98-9357	4	Bolt				
5	98-9717	2	Clamp				
6	98-9574	1	Pipe-Water				
7	99-8379	1	Pipe-Water				



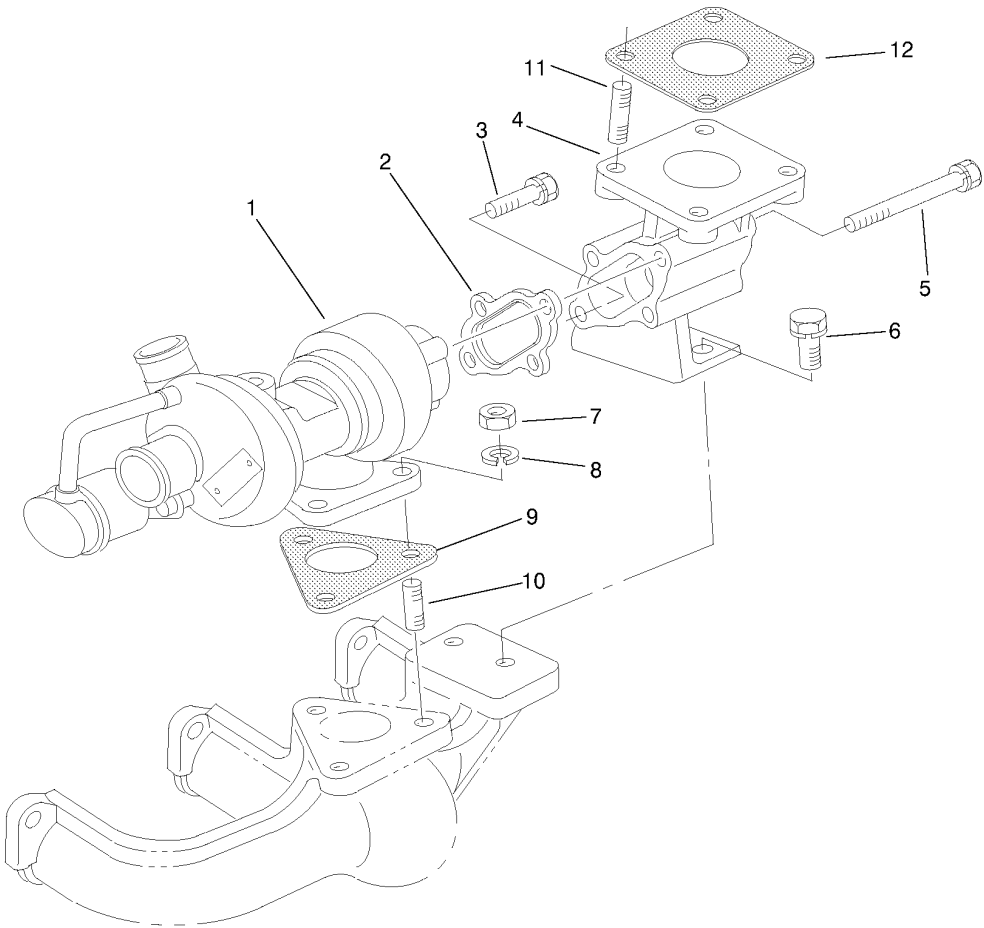
Valve and Rocker Arm Assembly

Ref	Part No.	Qty.	Description
1	98-9508	2	Washer-Shaft, R-Arm
2	98-9385	3	Washer-Flat
3	98-9393	3	Nut
4	98-9501	6	Rocker Arm ASM
4:1	98-9503	6	Nut
4:2	98-9502	6	Screw-Adjusting
5	98-9612	1	R-Arm Shaft ASM
5:1	98-9365	2	Screw-Set
6	98-9370	2	Clip-Circular, External
7	98-9507	2	Washer-Shaft, R-Arm
8	98-9505	3	Bracket-Arm, Rocker
9	98-9504	2	Spring-Arm, Rocker
10	98-9391	1	Screw-Set, Rocker Arm
11	98-9496	6	Seal-Stem, Valve
12	98-9626	6	Spring-Valve
13	98-9498	6	Retainer-Valve
14	98-9390	6	Collet-Set, Valve Spring
15	98-9497	6	Cap-Valve
16	98-9506	3	Stud
17	98-9625	3	Valve-Exhaust
18	98-9494	3	Valve-Inlet



Exhaust Manifold and Gasket Assembly

Ref	Part No.	Qty.	Description				
1	99-8320	2	Bolt				
2	99-8321	1	Manifold-Inlet				
3	99-8322	1	Band-Pipe				
4	99-8323	1	Hose-Inlet				
5	99-8324	1	Band-Pipe				
6	98-9665	6	Nut				
7	99-8326	1	Manifold-Exhaust				
8	99-8327	1	Gasket-Manifold, Exhaust				
9	98-9588	6	Stud				
10	99-8329	1	Gasket-Manifold, Intake				
11	98-7568	3	Bolt				
12	98-7496	1	Bolt				



Turbo Charge Assembly

Ref	Part No.	Qty.	Description				
1	99-8332	1	Turbo Charger ASM				
2	99-8333	1	Gasket				
3	99-8334	1	Bolt				
4	99-8335	1	Flange-Muffler				
5	99-8336	3	Bolt				
6	98-7610	2	Bolt				
7	98-7534	3	Nut				
8	99-8339	3	Washer-Spring				
9	99-8340	1	Gasket				
10	99-8341	3	Stud				
11	99-8342	4	Stud				
12	99-8343	1	Gasket-Muffler				

NOTES

