



Reelmaster® 3100-D

Model No. 03200 - 230000001 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.

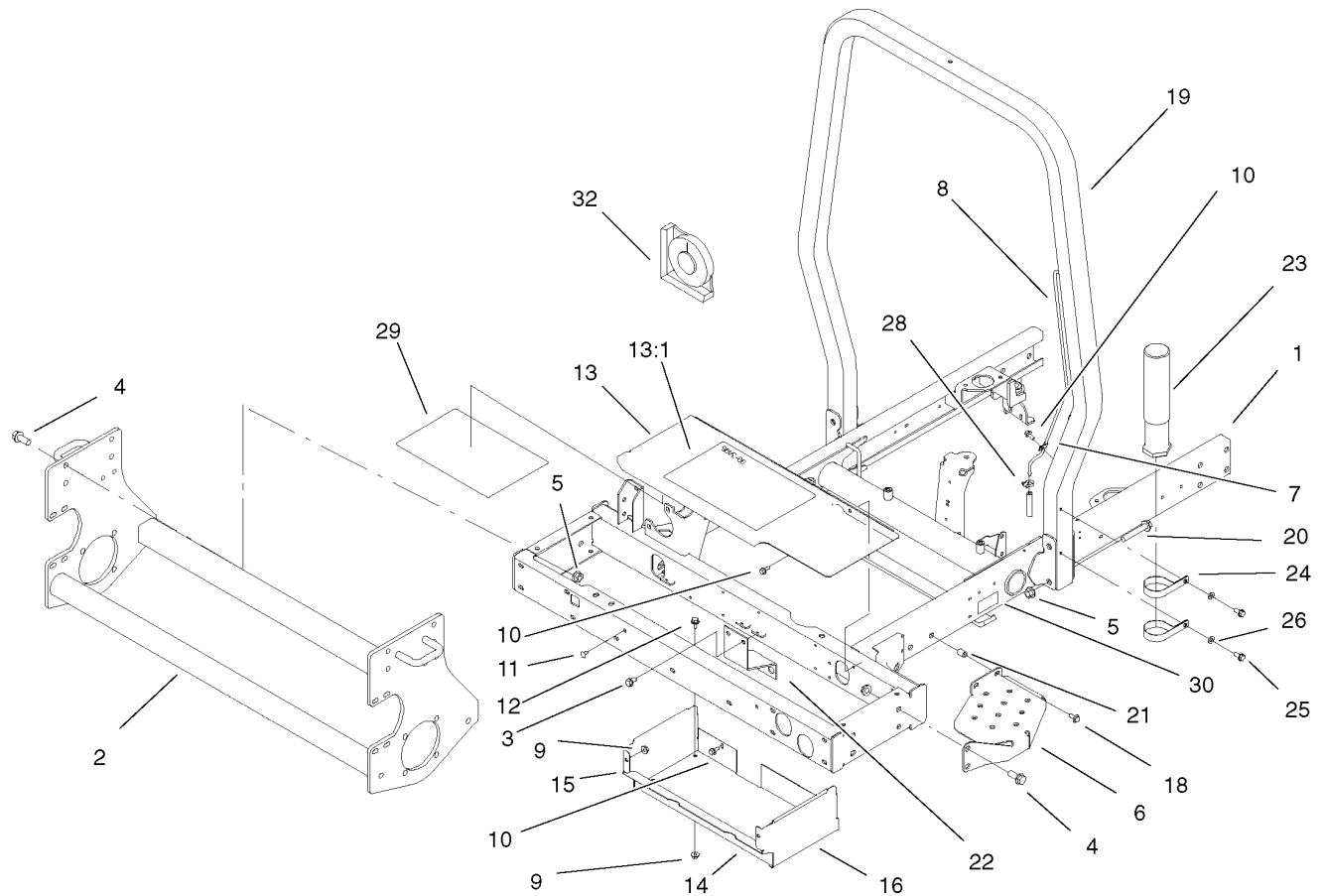
AR.	as required	HYD.	hydraulic
ASM.	assembly	LH.	left hand
BBC.	blade brake clutch	NI.	nylon insert
CARR.	carriage	NPTF.	national pipe thread fine
DEG.	degrees	PFH.	phillips flat head
EXT.	external	PPH.	phillips pan head
FH.	flat head	PPHTF.	phillips pan head thread forming
GA.	gauge	PRH.	phillips round 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

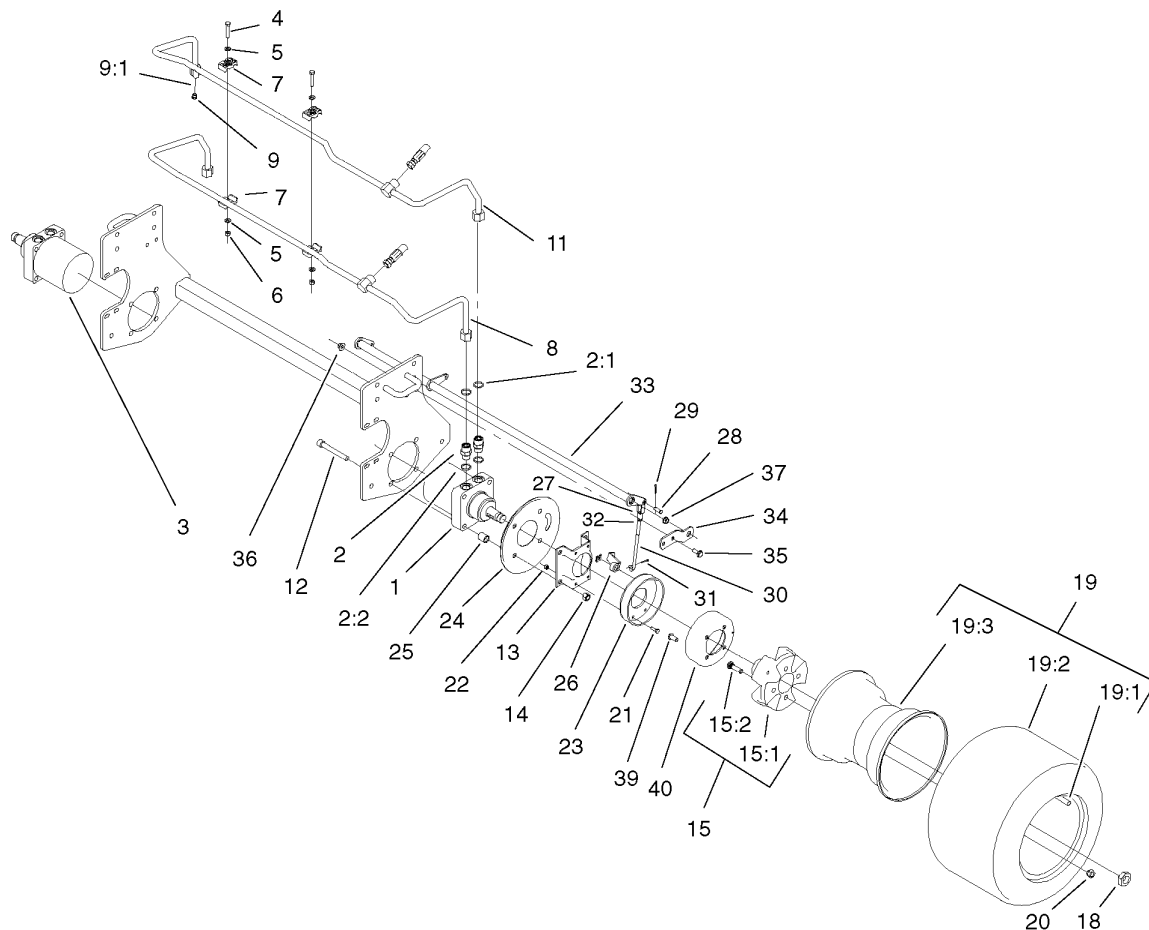
Not serviced separately
- ❷

* Not Illustrated



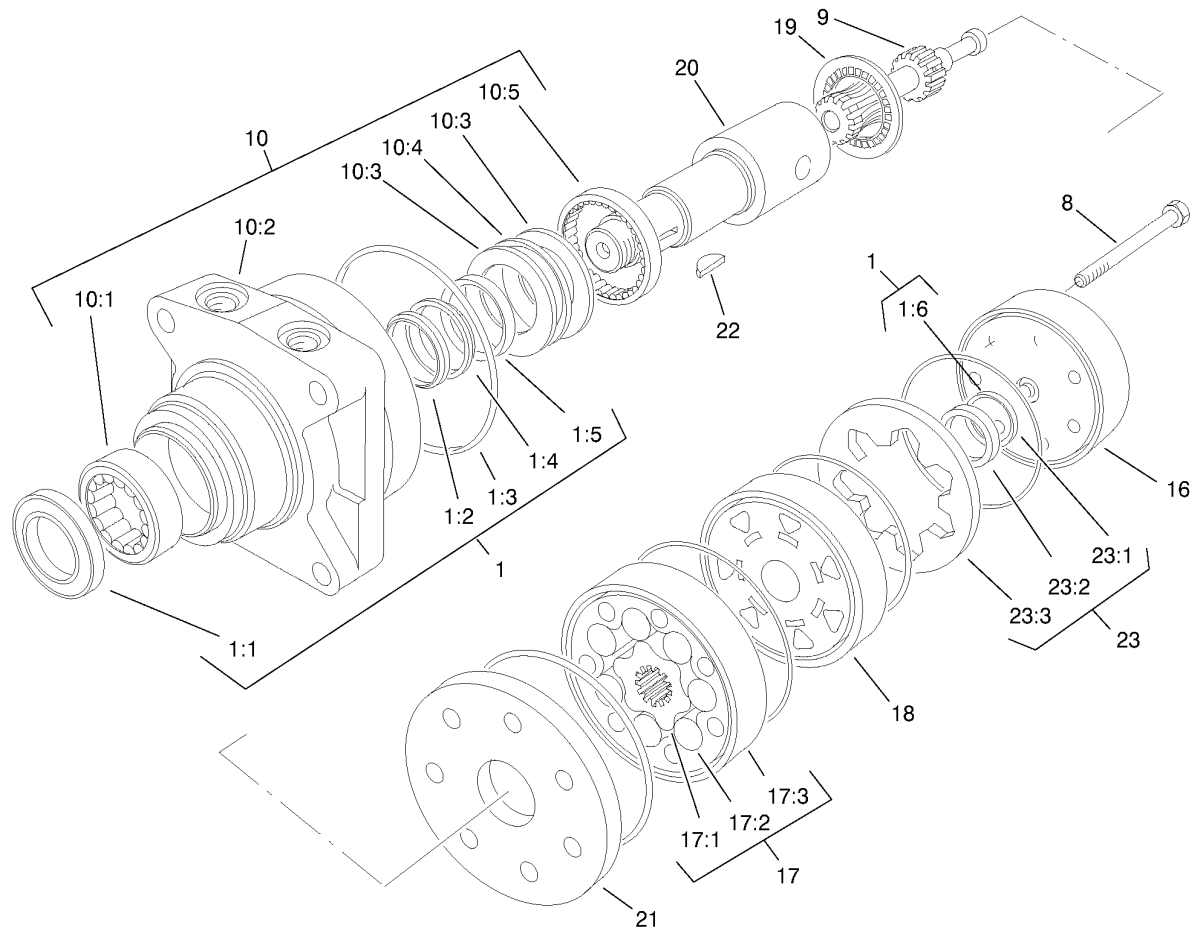
Frame Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	95-8590-03	1	Frame	24	2412-133	2	R-Clamp
2	95-8568-03	1	Frame-Lower	25	32144-70	2	Screw-HH
3	32144-15	2	Screw	26	3256-23	2	Washer-Flat
4	3234-38	8	Screw-HHF	28	2412-108	1	Clamp-Worm
5	32128-49	12	Nut-HHF	29	99-3494	1	Decal-Instructions
6	99-3375-03	1	Step	30	105-4674	1	Decal-Noise, Ce
7	2412-72	3	Clip-Closed, Insulated	32	99-3503	1	Indicator-Angle
8	95-8615	1	Tube-Breather				
9	32128-33	6	Nut-HF				
10	32144-10	13	Screw-HWH				
11	3229-11	2	Screw-CARR				
12	3234-13	4	Screw-HHF				
13	99-3504	1	Toolbox Cover ASM				
13:1	99-3560	1	Decal-Danger, Ce				
13:1	99-3496	1	Decal-Danger				
14	99-3430-03	1	Bottom-Toolbox				
15	99-3431-03	1	End-Toolbox, RH				
16	99-3432-03	1	End-Toolbox, LH				
18	3234-5	2	Screw				
19	99-3350-03	1	Tube-ROPS				
20	3234-40	4	Screw-HF				
21	32148-8	2	Insert-Threaded				
22	95-8598-03	1	Bracket-Bulkhead, Scissor				
23	74-0720	1	Tube-Manual				



Front Wheel and Brake Assembly

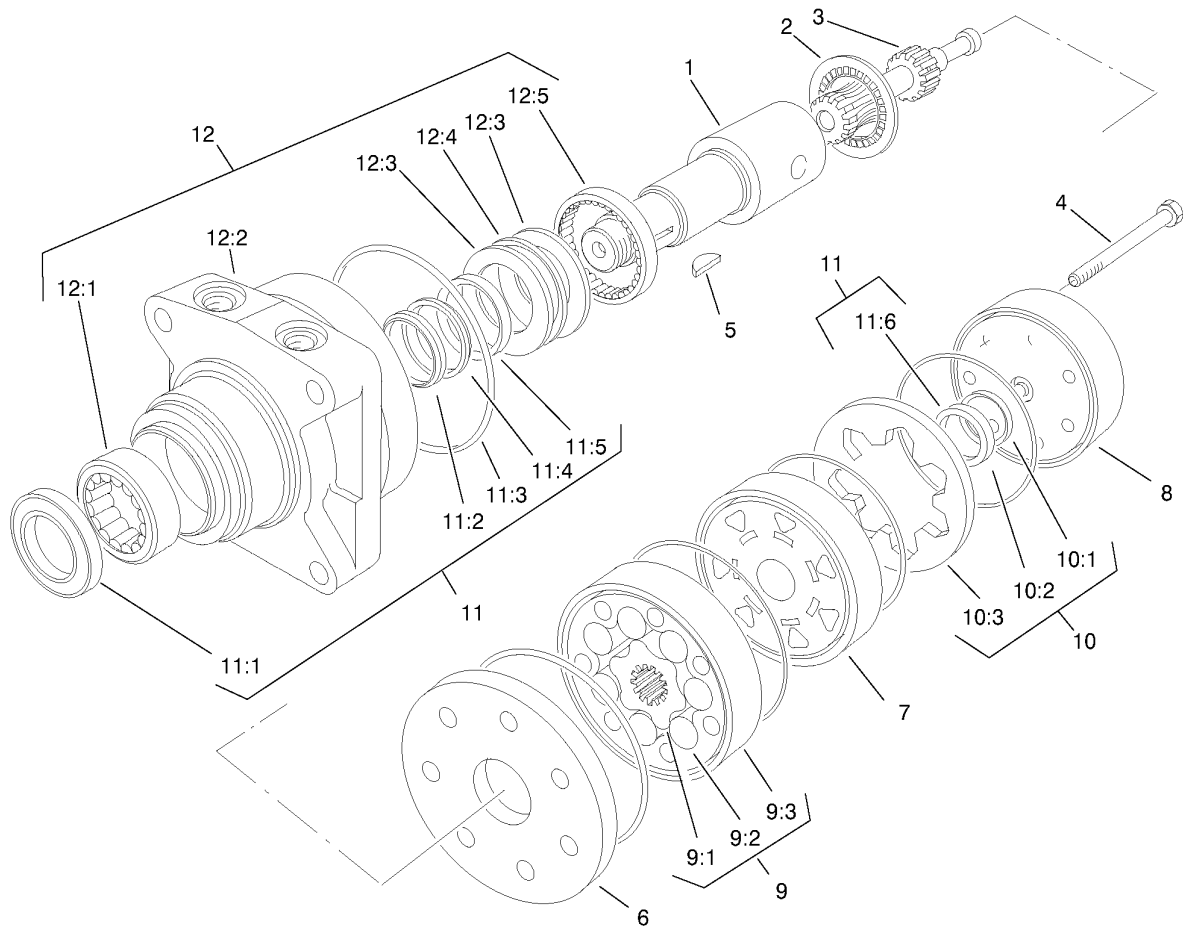
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	75-9990	1	HYD Motor ASM	20	242-50	8	Nut-Lug
2	340-7	4	Adapter	21	321-5	8	Screw-HH
2:1	237-65	1	O-Ring	22	3296-42	8	Nut-Lock, NI
2:2	237-80	1	O-Ring	23	104-7705	2	Brake ASM
3	95-8693	1	HYD Motor ASM	24	104-0485-03	2	Shield-Wheel
4	322-9	2	Screw-HH	25	92-1715	8	Spacer
5	3256-23	4	Washer-Flat	26	93-6850	2	Lever-Brake
6	3296-29	2	Nut-Lock, NI	27	282-2	2	Yoke
7	56-7971	4	Clamp-Tube	28	283-1	2	Pin-Yoke
8	95-8783	1	Tube ASM	29	3272-10	2	Pin-Cotter
9	353-990	1	Plug	30	104-4627	2	Rod-Adjusting
9:1	237-78	1	O-Ring	31	3272-6	2	Pin-Cotter
11	95-8784	1	Tube ASM	32	3220-2	2	Nut
12	3274-99	8	Screw-HSH	33	104-4625-03	1	Brake Pivot Shaft ASM
13	84-2000-03	2	Bracket-Brake	34	95-8683	2	Bracket-Pivot, Brake
14	3296-23	8	Nut-Lock, NI	35	3234-11	4	Screw-HHF
15		2	Wheel Hub / Stud ASM	36	32128-43	4	Nut-Flange
15:1	104-0462-03	1	Hub-Wheel	37	256-156	2	Bushing-Flange
15:2	10-6830	4	Stud-Type, Drive	39	3274-105	8	Screw-HSBH
18	26-3790	2	Nut-Lock	40	104-4809	2	Drum-Brake
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				



Hydraulic Motor Assembly No. 75-9990

Ref	Part No.	Qty.	Description
1	76-0800	1	Seal Kit
●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	Seal-Commutator
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
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

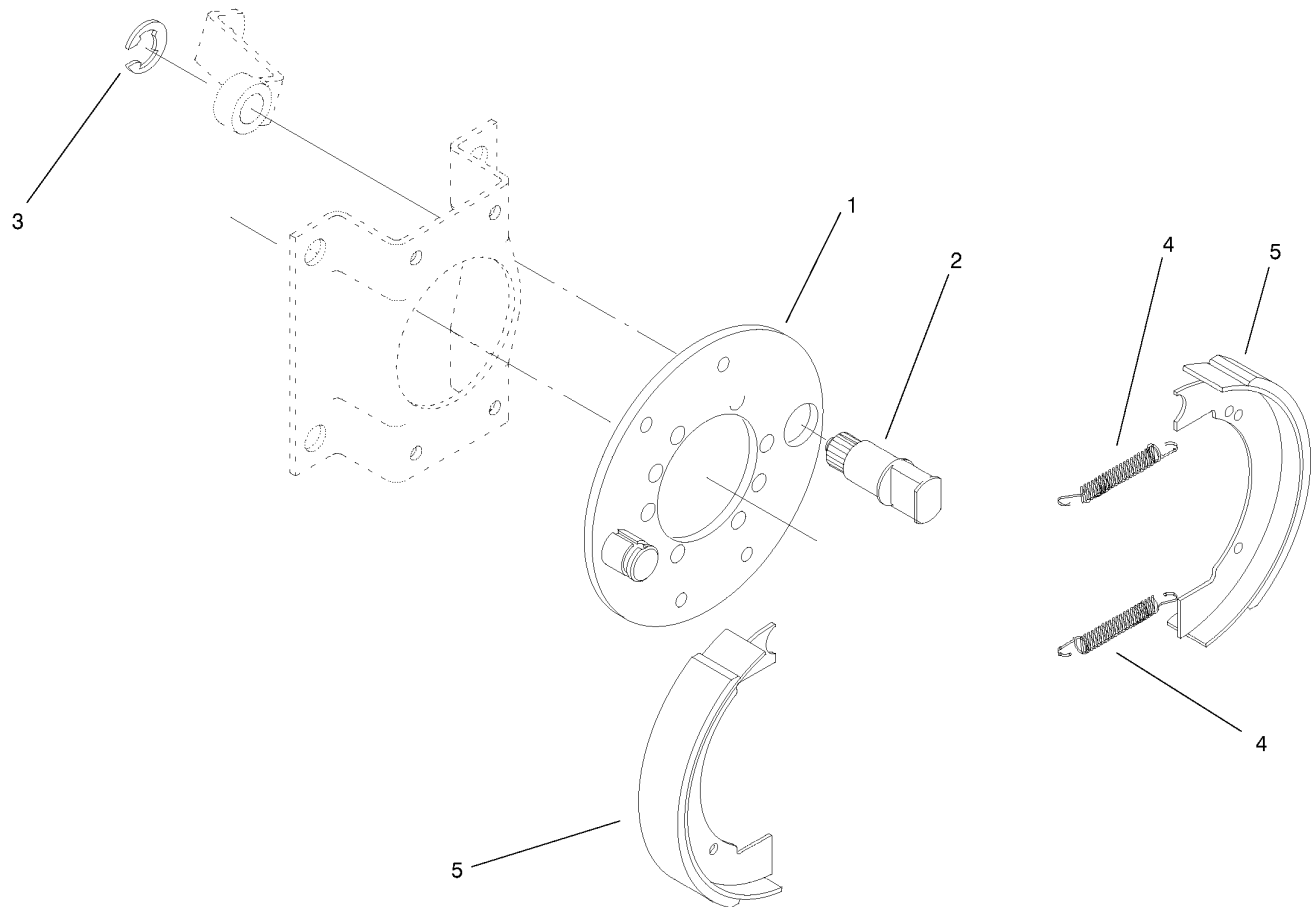
Ref	Part No.	Qty.	Description
22	3257-42	1	Key-Woodruff
23	76-0880	1	Commutator ASM
●23:1		1	Seal-Commutator
●23:2		1	Commutator
●23:3		1	Ring-Commutator



Hydraulic Motor Assembly No. 95-8693

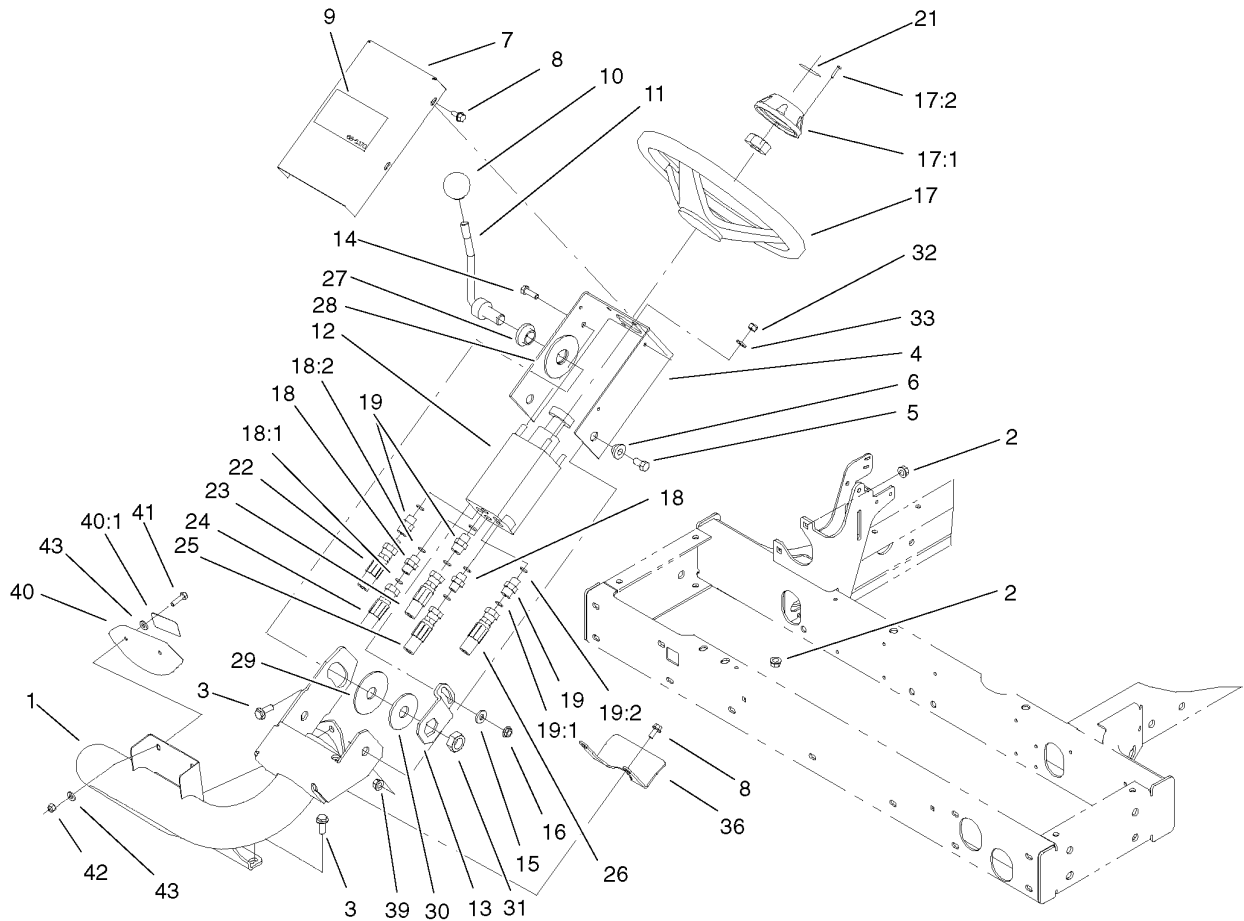
Ref	Part No.	Qty.	Description
1	76-0860	1	Shaft-Coupling
2	76-0850	1	Bearing-Thrust
3	76-0960	1	Link-Drive
4	76-1010	7	Screw
5	3257-42	1	Key-Woodruff
6	76-0870	1	Plate-Wear
7	99-3535	1	Manifold
8	76-0940	1	End Cover ASM
9	76-0970	1	Set-Rotor
●9:1		1	Rotor
●9:2		7	Vane
●9:3		1	Stator
10	76-0880	1	Commutator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



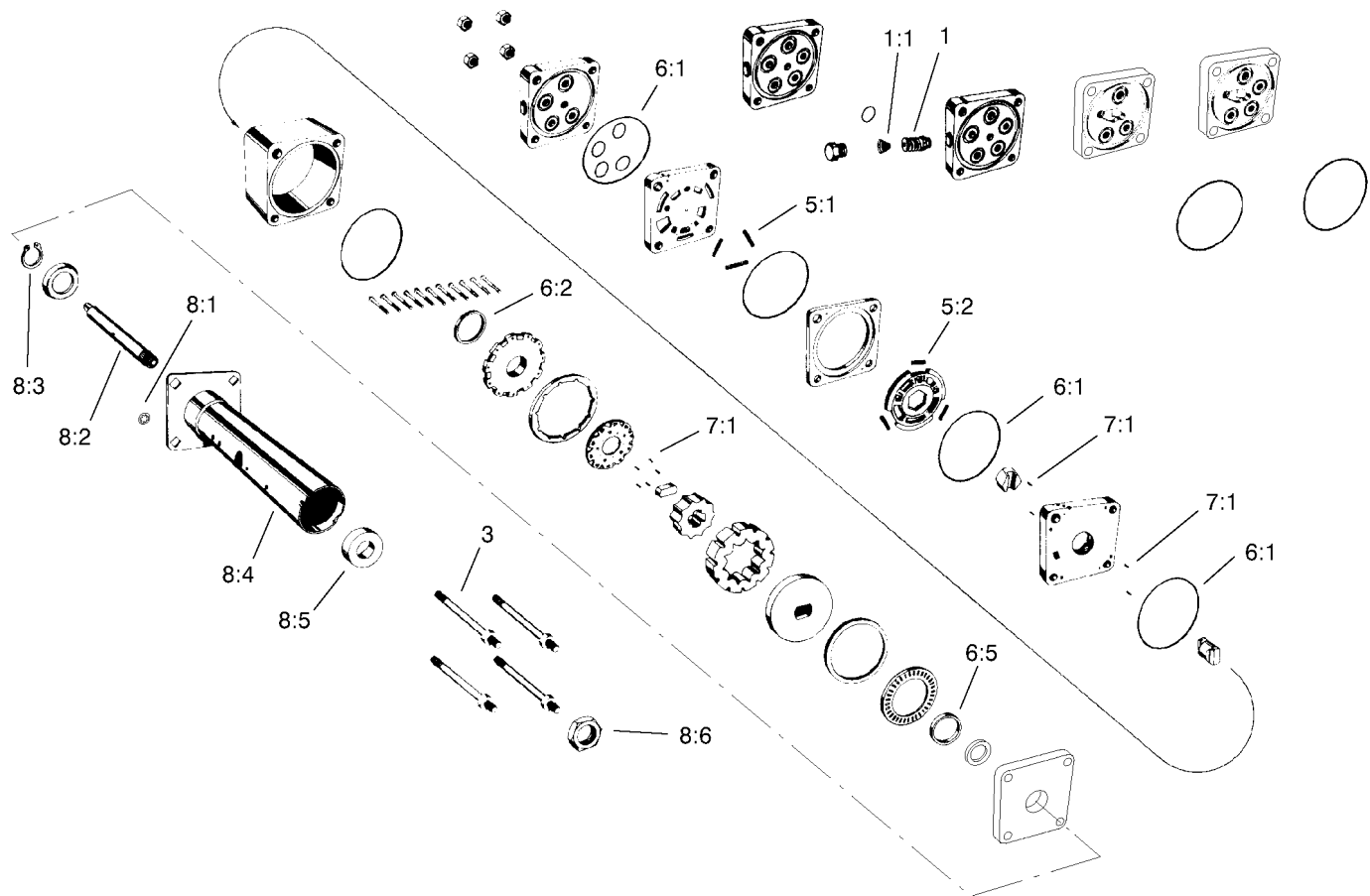
Brake Assembly No. 104-7705

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



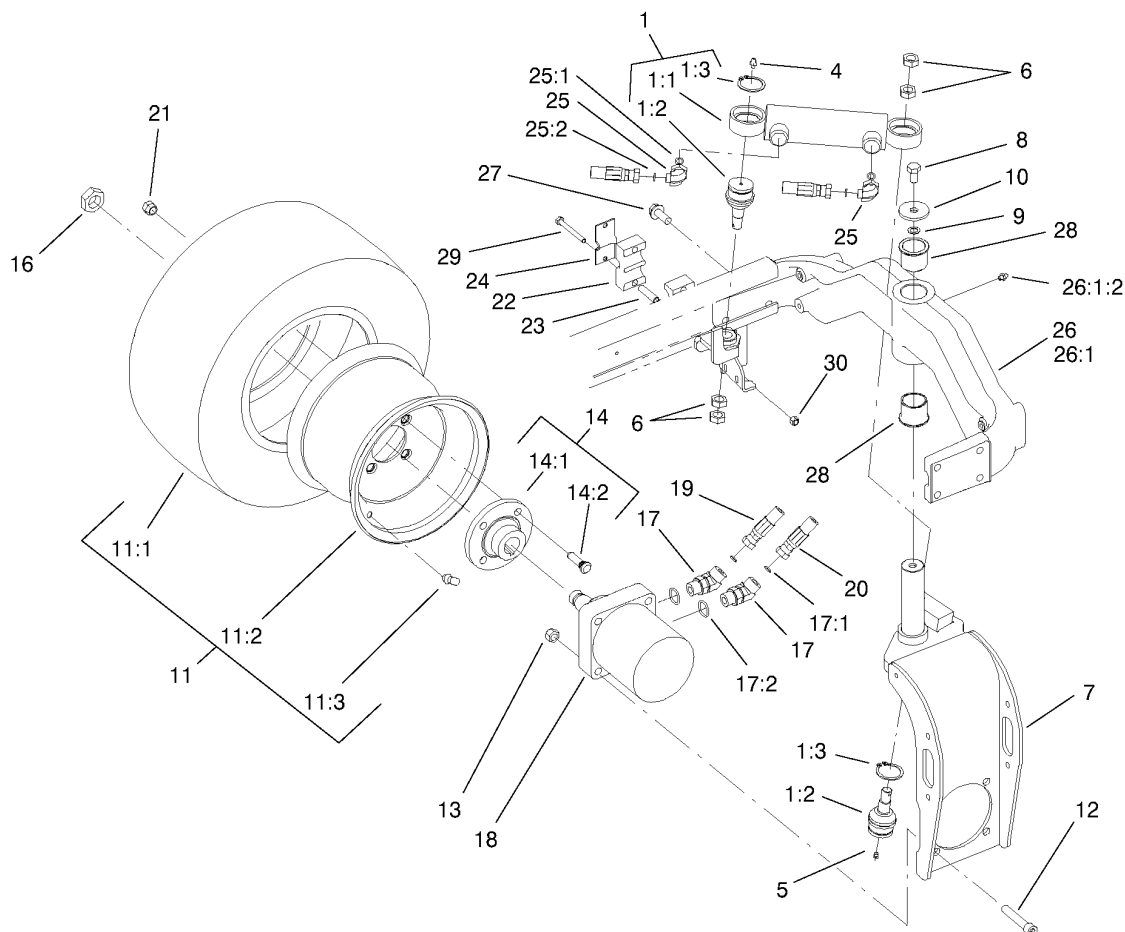
Steering Column Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	105-8536-01	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	95-8844	1	Hose ASM
6	93-5988	2	Hub-Pivot	25	95-8845	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	41	321-7	2	Screw-HH
18:1	237-35	1	O-Ring	42	3296-42	2	Nut-Lock, NI
18:2	237-42	1	O-Ring	43	3256-22	4	Washer-Flat
19	340-2	3	Fitting-HYD, Straight	②*99	3290-378	2	Tie-Cable
19:1	237-22	1	O-Ring				



Steering Control Assembly No. 104-0474

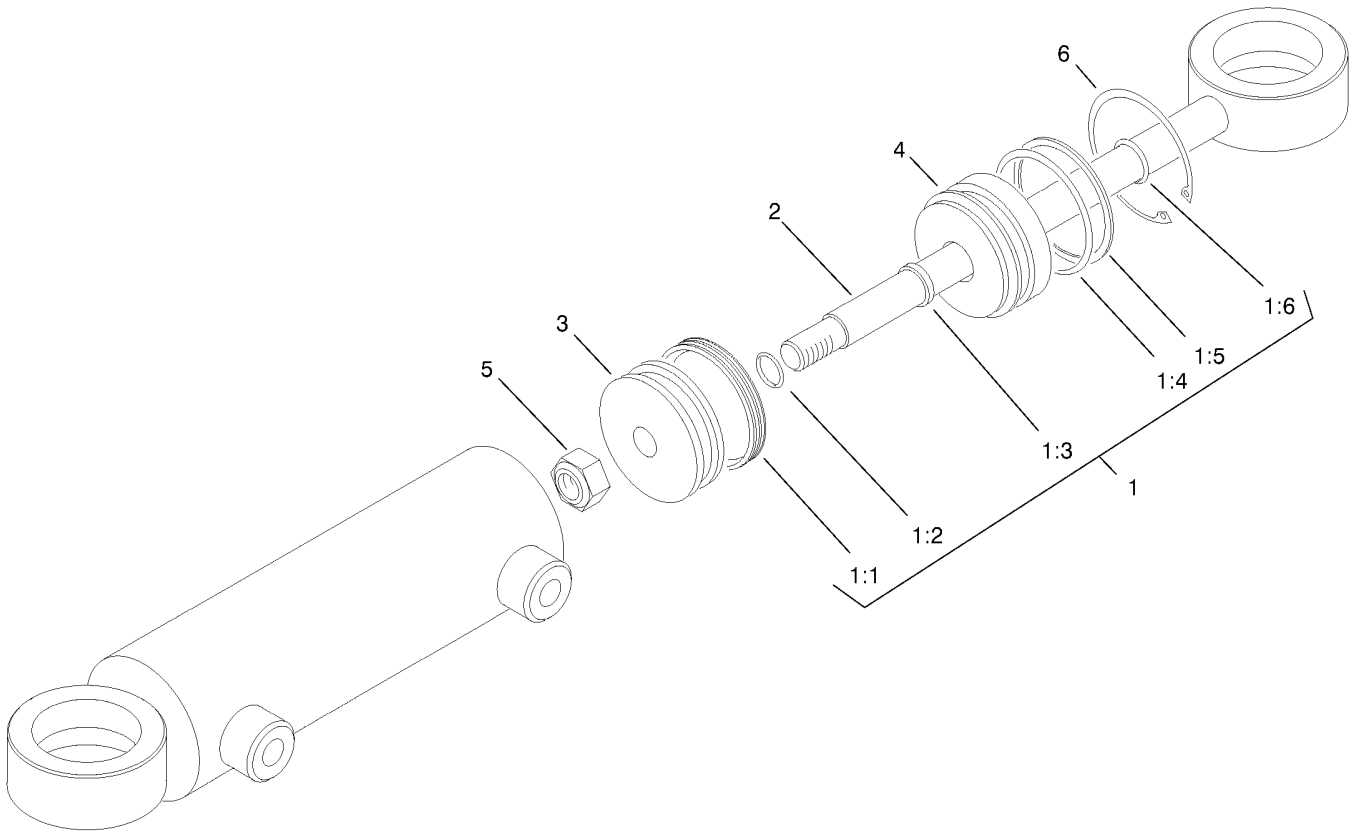
Ref	Part No.	Qty.	Description				
1	99-3523	1	Cartridge-Valve, Relief				
1:1		1	Spring-Coil				
3	99-3524	4	Bolt-Special				
5	66-9970	1	Spring Kit				
5:1		3	Spring				
5:2		3	Spring				
6	66-9980	1	Seal Kit				
6:1		5	Ring-Seal				
6:2		1	Seal-Commutator				
6:3		1	O-Ring				
6:4		5	O-Ring				
6:5		1	Seal-Face				
7	66-9990	1	Needle Roller Kit				
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

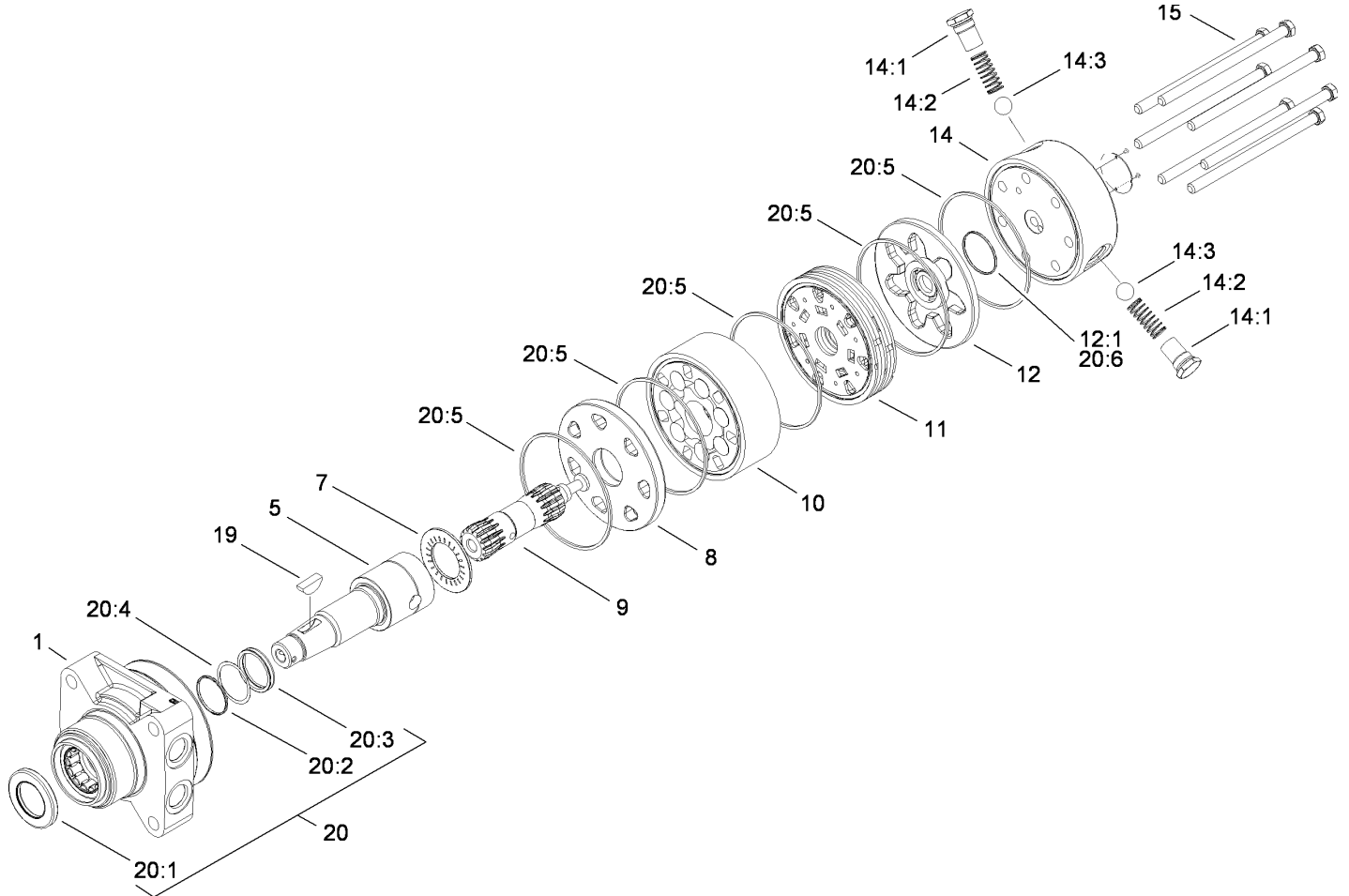
Ref	Part No.	Qty.	Description
❶ 1		1	Steering Cylinder/Balljoint ASM
1:1	94-8141	1	HYD Cylinder ASM
1:2	92-5838	2	Joint-Ball
1:3	32151-104	2	Ring-Retaining, EXT
4	302-5	1	Fitting-Grease
5	302-59	1	Plug-Threaded
6	3220-6	4	Nut-Jam
7	95-8905-01	1	Fork-Rear
8	325-3	1	Screw-HH
9	3255-2	1	Washer-Lock/EXT
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 14		1	Wheel Hub / Stud ASM
14:1	10-6870-03	1	Hub-Wheel
14:2	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	105-1221	1	Hose-ASM
20	105-1222	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
❶ *99	3290-378	5	Tie-Cable



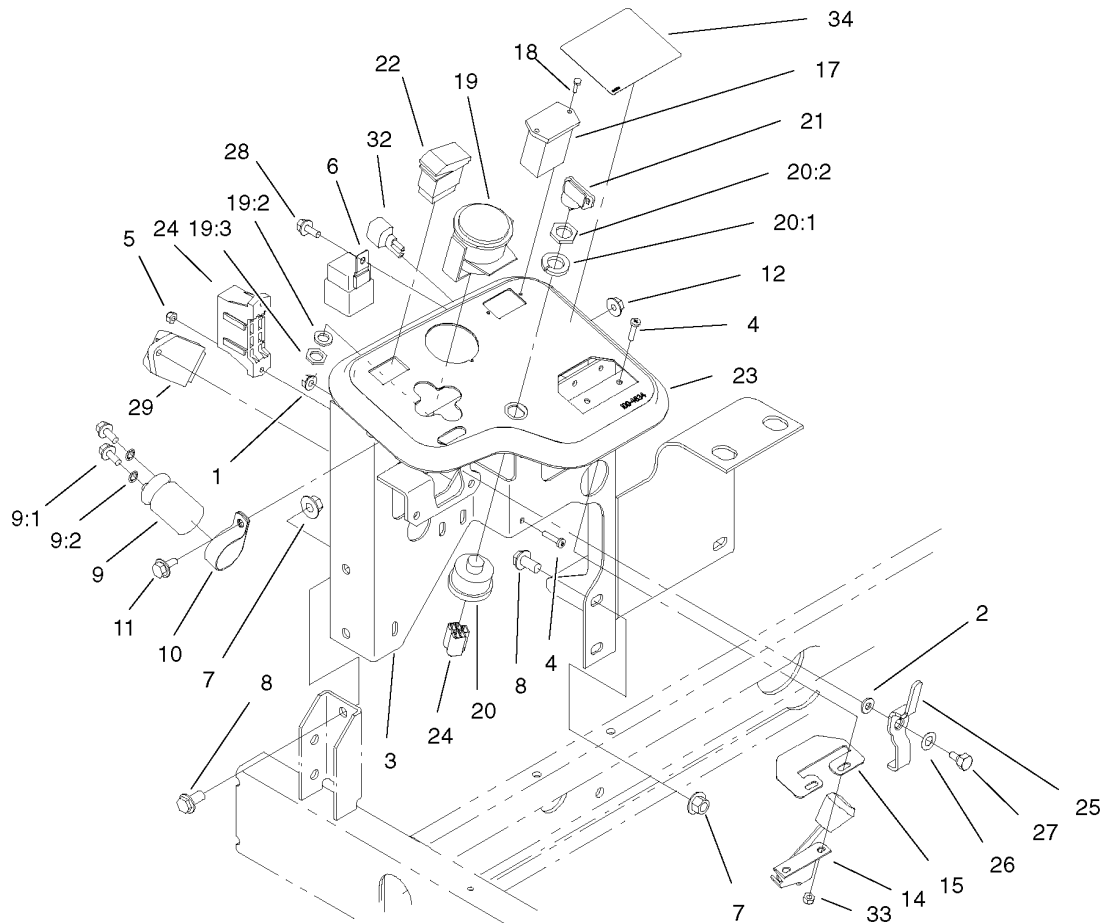
Hydraulic Cylinder Assembly No. 94-8141

Ref	Part No.	Qty.	Description				
1	86-5390	1	Seal Repair Kit				
❶1:1		1	Uniring				
❶1:2		1	O-Ring				
❶1:3		1	Seal-Rod				
❶1:4		1	O-Ring				
❶1:5		1	Ring-Backup				
❶1:6		1	O-Ring				
❷2		1	Rod				
❸3		1	Piston				
❹4		1	Gland				
❺5		1	Nut-Lock				
❻6		1	Ring-Retaining				



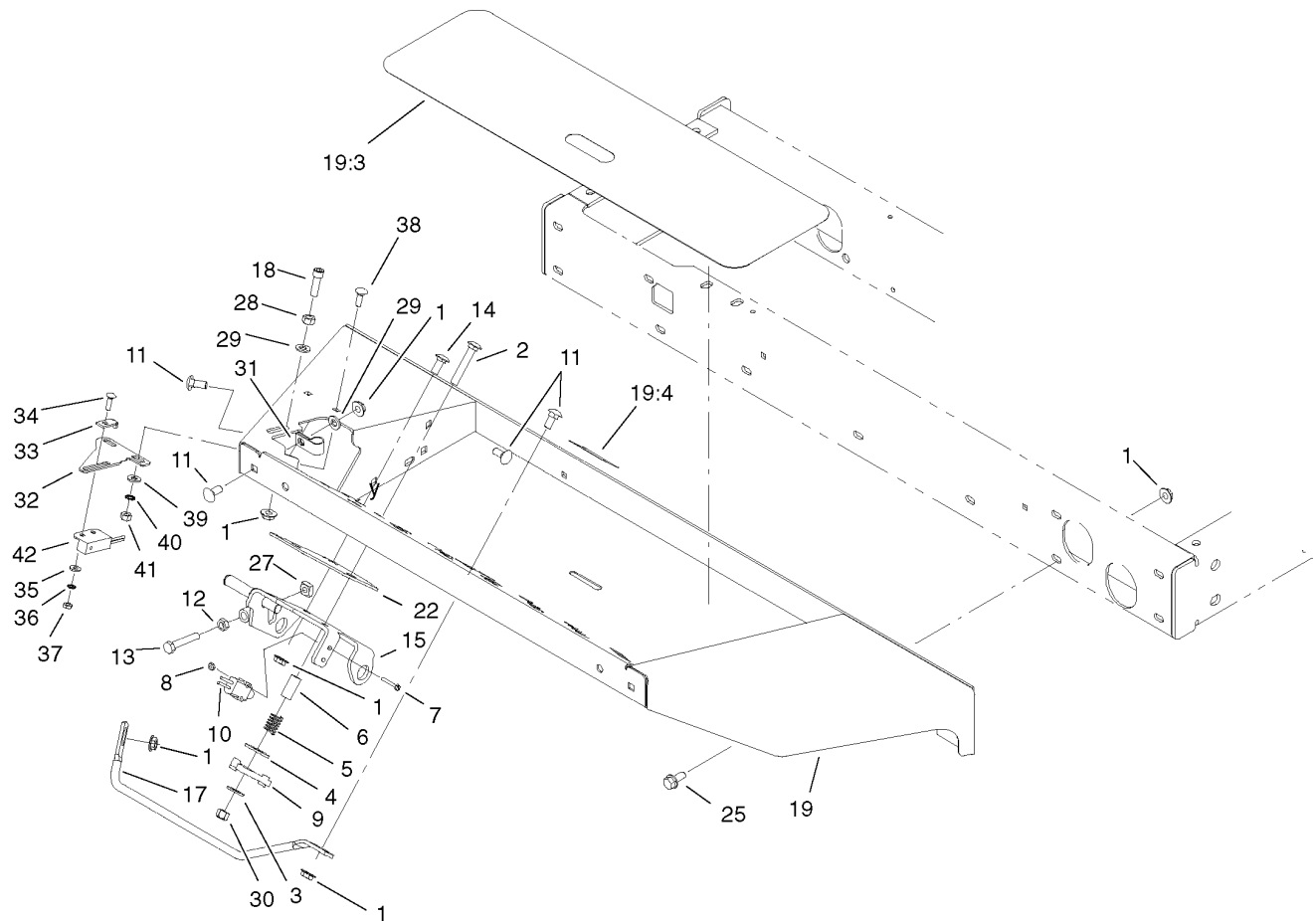
Hydraulic Motor Assembly No. 95-8694

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



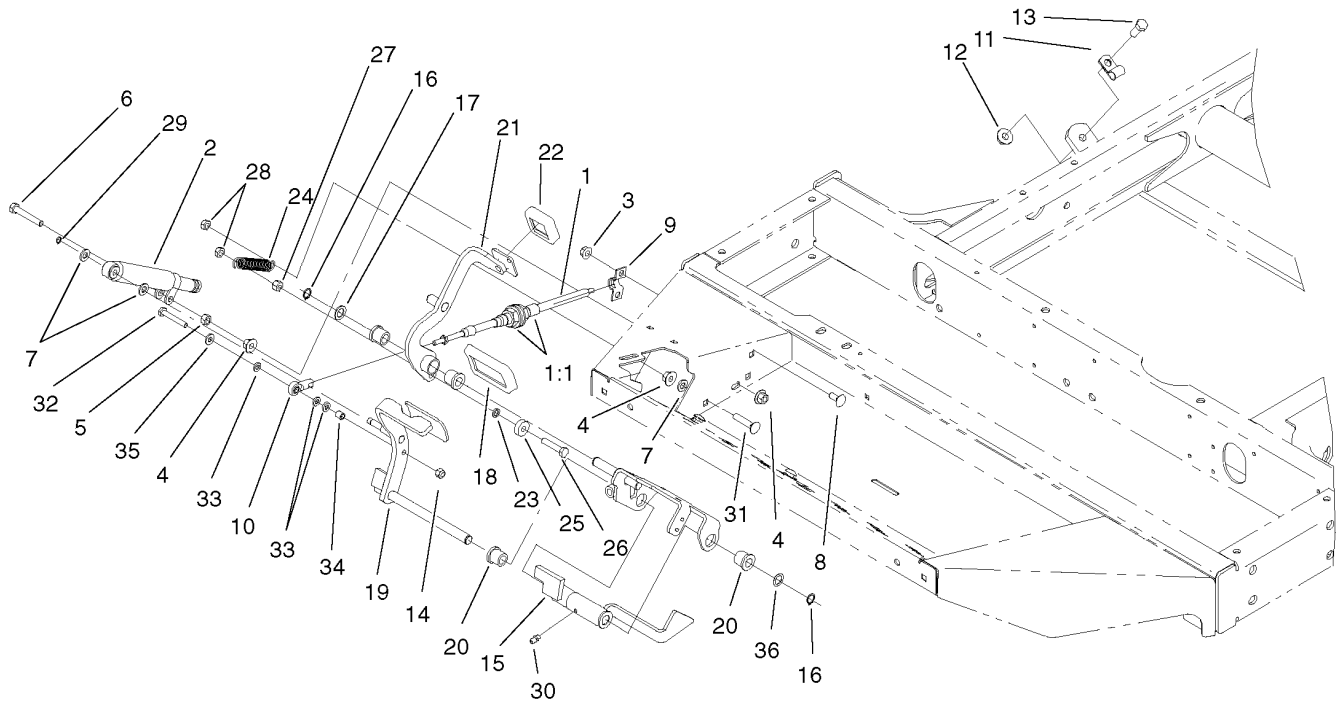
Control Panel Assembly

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	99-3493	1	Decal-Console
5	3296-2	2	Nut-Lock	24	104-4896	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	98-7611	1	Controller-Glow
9:2	3254-1	2	Washer-Lock, Internal	32	100-4918	4	Diode
10	2412-74	1	R-Clamp	33	3290-148	2	Nut-HF
11	3234-4	1	Screw-HHF	34	99-3558	1	Decal-Console, Ce
12	32128-33	1	Nut-HF	②*99	3290-379	4	Tie-Cable
14	95-8855	1	Control-Throttle	②*99	3290-378	3	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				
②*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

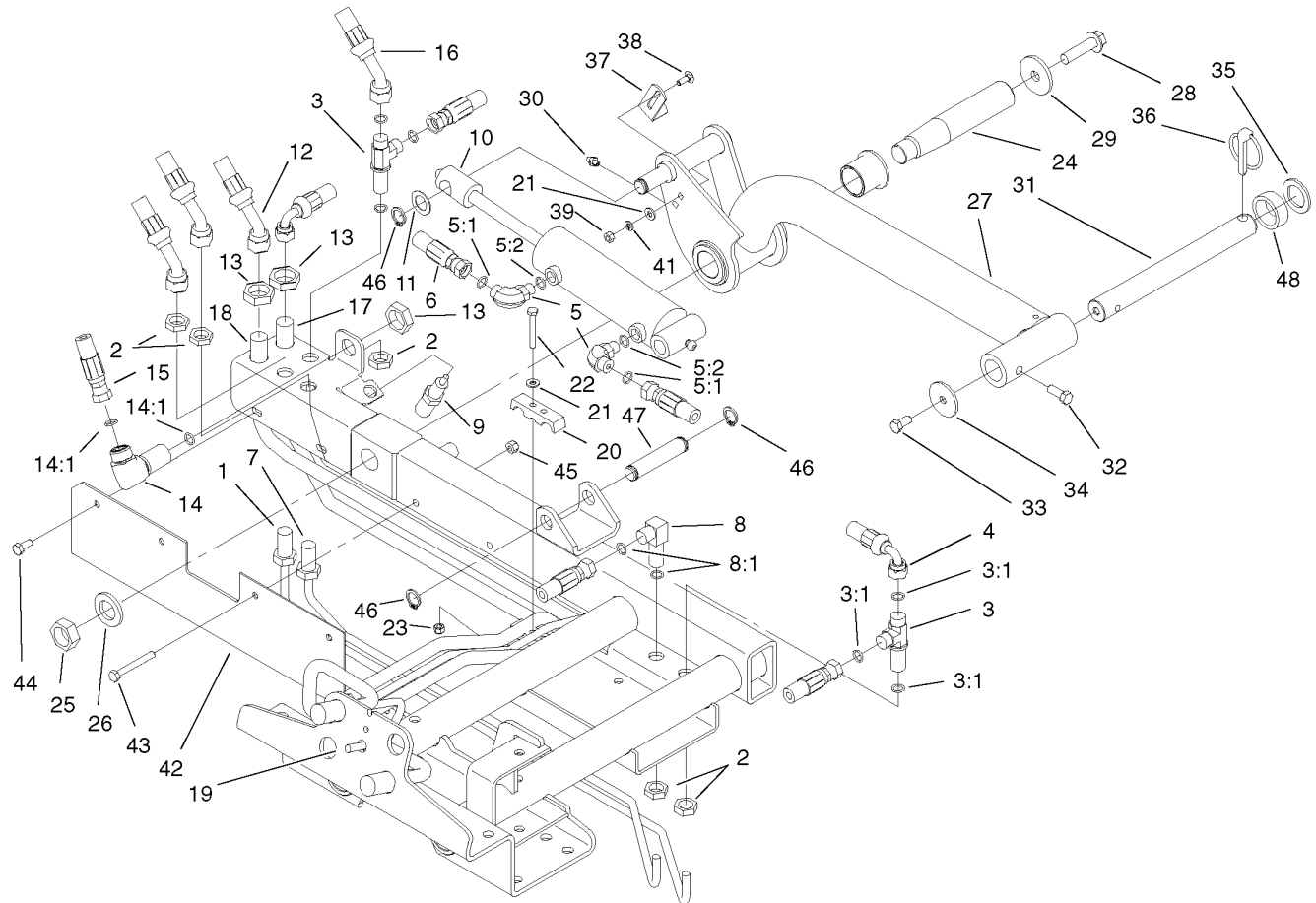
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	32128-44	18	Nut	29	3256-23	2	Washer-Flat
2	3230-6	1	Screw-CARR	30	3296-29	1	Nut-Lock, NI
3	3256-3	1	Washer-Flat	31	2412-103	1	Clamp
4	3256-40	1	Washer-Flat	32	100-4871	1	Bracket-Switch, Neutral
5	65-9940	1	Spring	33	100-4872	1	Plate-Switch, Neutral
6	95-8866	1	Tube-Arm, Rocker	34	3229-20	1	Screw-CARR
7	32105-9	2	Screw	35	3256-14	1	Washer-Flat
8	3296-9	2	Nut-Lock, NI	36	3255-17	1	Washer-Lock/EXT
9	99-3593	1	Arm-Rocker	37	3296-2	1	Nut-Lock
10	95-8900	1	Switch	38	3229-1	2	Screw-CARR
11	3230-1	5	Bolt-CARR	39	3256-22	2	Washer-Flat
12	3218-2	1	Nut-Jam	40	3255-7	2	Washer-Lock/EXT
13	322-41	1	Screw-HH	41	3217-5	2	Nut-Hex
14	3230-23	2	Screw-CARR	42	100-1270	1	Switch-Proximity
15	95-8869-03	1	Bracket-Pedal, Traction	②*99	3290-379	2	Tie-Cable
17	95-8893	1	Bar-Deflector				
18	3274-22	1	Screw-HSH				
19	106-4154	1	Floorplate ASM				
19:3	99-3478	1	Tread-Foot				
19:4	99-3444	1	Decal-Mow/Transport				
22	106-2661-01	1	Plate-Support, Red				
25	3234-5	10	Screw				
27	99-3565	1	Nut-Square				
28	3217-6	1	Nut-Hex				



Traction Pedal Assembly

Ref	Part No.	Qty.	Description
1	100-4815	1	Cable-Control, Traction
1:1	3220-1	2	Nut-Jam
2	76-8870	1	Lever Damper ASM
3	32128-20	2	Nut-HF
4	32128-44	3	Nut
5	3217-6	1	Nut-Hex
6	322-10	1	Screw-HH
7	3256-23	3	Washer-Flat
8	3230-23	2	Screw-CARR
9	93-2092	1	Clamp-Cable
10	2411-41	1	Joint-Ball
11	2412-10	1	R-Clamp
12	32128-43	1	Nut-Flange
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

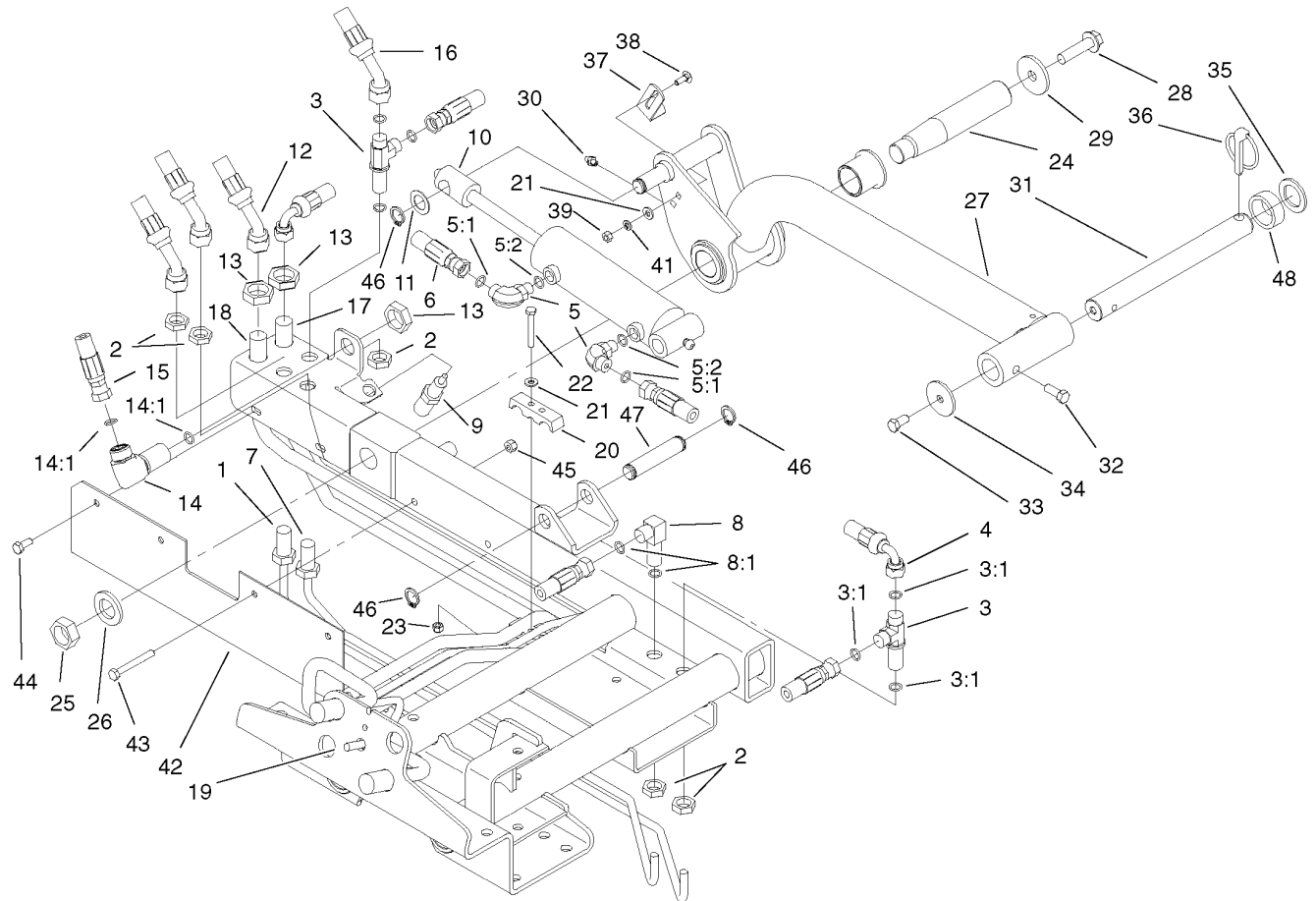
Ref	Part No.	Qty.	Description
24	99-3476	1	Spring-Extension
25	251-259	1	Bearing
26	322-7	1	Screw-HH
27	3296-29	1	Nut-Lock, NI
28	3296-47	2	Nut-Lock, NI
29	32151-3	1	Ring-Grip, EXT
30	302-5	1	Fitting-Grease
31	3230-27	1	Screw-CARR
32	321-10	1	Screw-HH
33	33093-00	3	Washer-Flat
34	99-3545	1	Spacer
35	3256-22	1	Washer-Flat
36	73-0040	4	Washer-Thrust



Rear Lift Arm Assembly

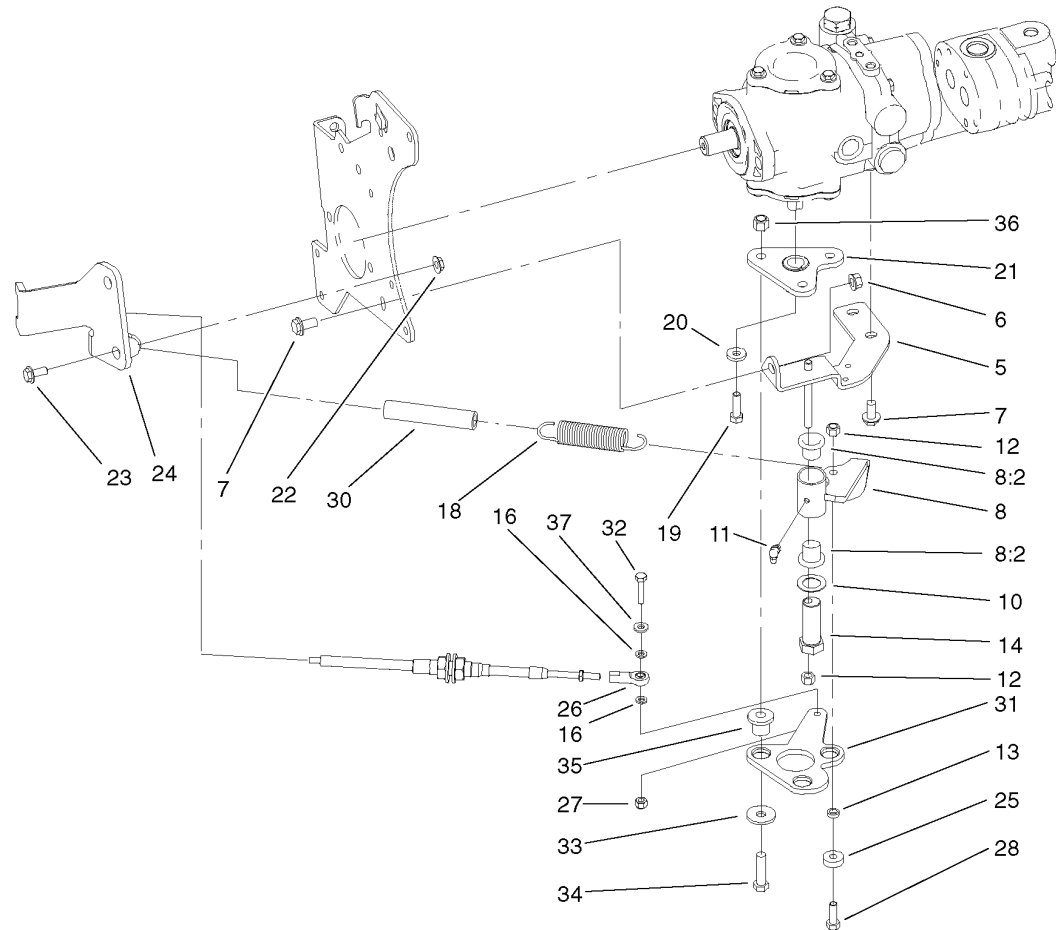
Ref	Part No.	Qty.	Description
1	95-8984	1	Tube ASM
2	340-70	5	Nut-Lock
3	340-68	2	Fitting-Tee, Bulkhead
3:1	237-22	3	O-Ring
4	95-8831	1	Hose ASM
5	340-77	2	Fitting-HYD, 90°
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	99-3576	1	Hose ASM
7	95-8983	1	Tube ASM
8	340-154	1	Union-Bulkhead
8:1	237-22	2	O-Ring
9	93-6762	1	Switch-Ball
10	95-8978	1	Cylinder-HYD
11	3-6498	1	Washer-Thrust
12	99-3574	1	Hose ASM
13	340-127	3	Nut-Bulkhead
14	93-9151	1	Fitting-HYD
14:1	237-30	2	O-Ring
15	99-3578	1	Hose ASM
16	99-3577	1	Hose ASM
17	95-8980	1	Tube ASM
18	95-8981	1	Tube ASM
19	95-8982	1	Tube ASM

Ref	Part No.	Qty.	Description
20	93-2509	2	Clamp-Tube
21	3256-22	6	Washer-Flat
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	95-8985	1	Rear Lift Arm ASM
28	3234-27	1	Screw-Flange
29	75-7730	1	Washer-Thrust
30	302-5	1	Fitting-Grease
31	104-1392	1	Shaft-Pivot
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
37	95-8613	1	Bracket-Switch
38	3229-1	2	Screw-CARR
39	3217-5	2	Nut-Hex
41	3253-3	2	Washer-Lock
42	104-0453-03	1	Guard
43	322-12	2	Screw-HH
44	322-3	2	Screw-HH



Rear Lift Arm Assembly (continued)

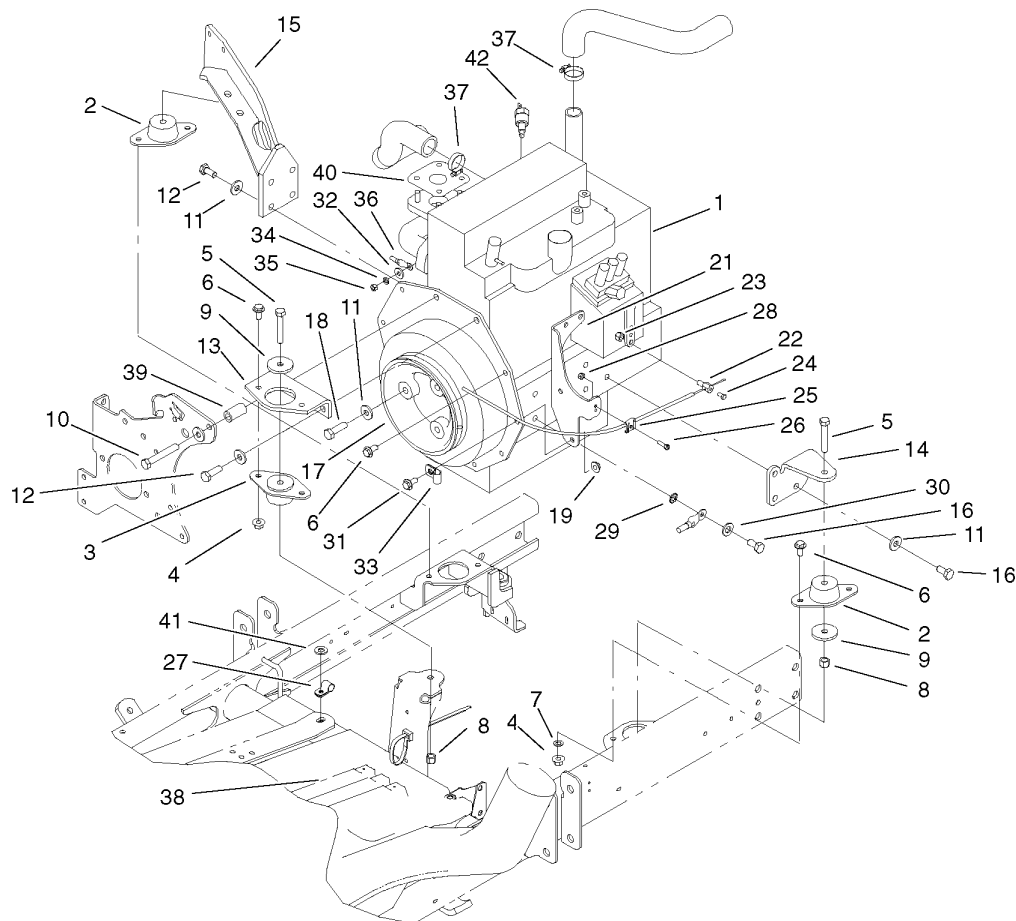
Ref	Part No.	Qty.	Description				
45	32128-20	4	Nut-HF				
46	32120-93	3	Ring-Retaining				
47	95-8575	1	Pin				
48	63-0070	1	Spacer				
②*99	3290-379	1	Tie-Cable				



Neutral Arm Assembly

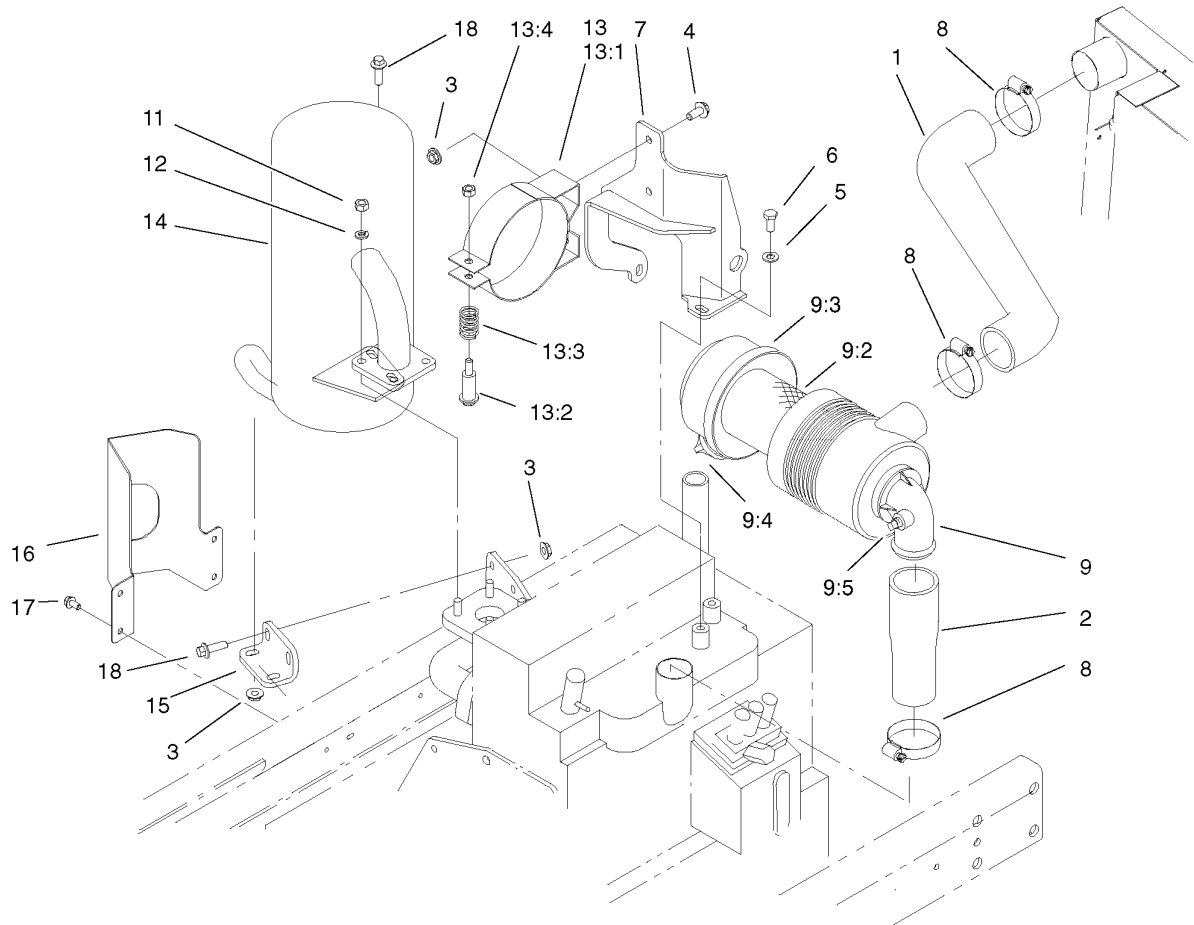
Ref	Part No.	Qty.	Description
5	95-8960-03	1	Bracket-Neutral
6	32128-43	1	Nut-Flange
7	3234-1	3	Screw-HHF
8	104-0422	1	Neutral Arm ASM
8:2	256-113	2	Bushing-Flange
10	3-6498	1	Washer-Thrust
11	302-60	1	Fitting-Grease
12	3296-29	2	Nut-Lock, NI
13	100-4817	1	Spacer-Bearing
14	76-8640	1	Stud-Traction
16	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
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



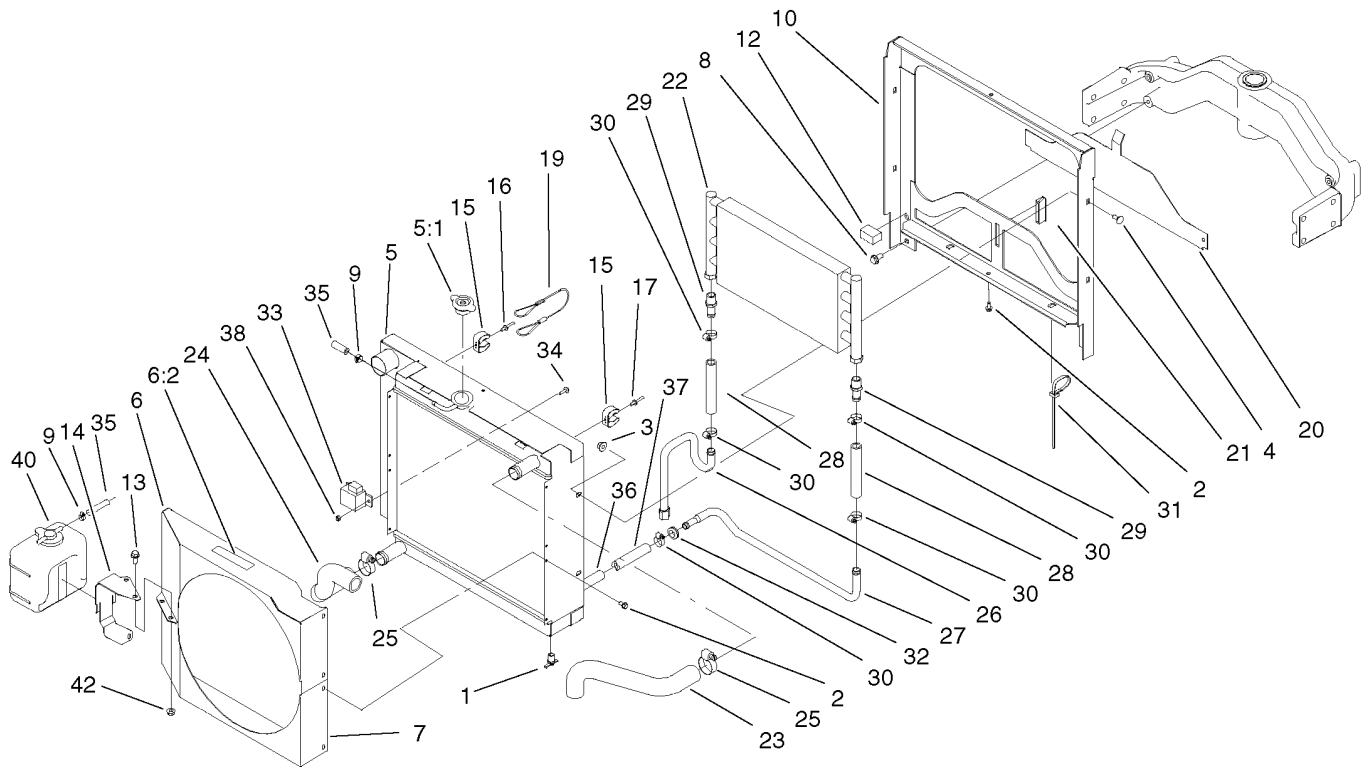
Engine Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-4899	1	Engine-Kubota	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	7	Screw	31	3234-17	1	Screw-HHF
7	3255-8	1	Washer-Lock	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	12	Washer-Hardened	36	99-3441	1	Harness-Wire, Fusible Link
12	95-8812	5	Screw-HH	37	2412-34	2	Clamp-Hose
13	95-8926-03	1	Mount-Engine, Front	38	3290-378	1	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	4	Screw-Cap	41	3256-24	1	Washer-Flat
17	99-3412-03	1	Pulley	42	99-3582	1	Thermoswitch
18	56-2140	3	Bolt				
19	32128-44	2	Nut				
21	100-4867-03	1	Support-Throttle, Filter				
22	98-9311	1	Swivel-Throttle				
23	3296-20	1	Nut-Lock, NI				
24	25-8640	1	Screw-HH				
25	81-1690	1	Clamp-Cable				



Air Cleaner and Muffler Assembly

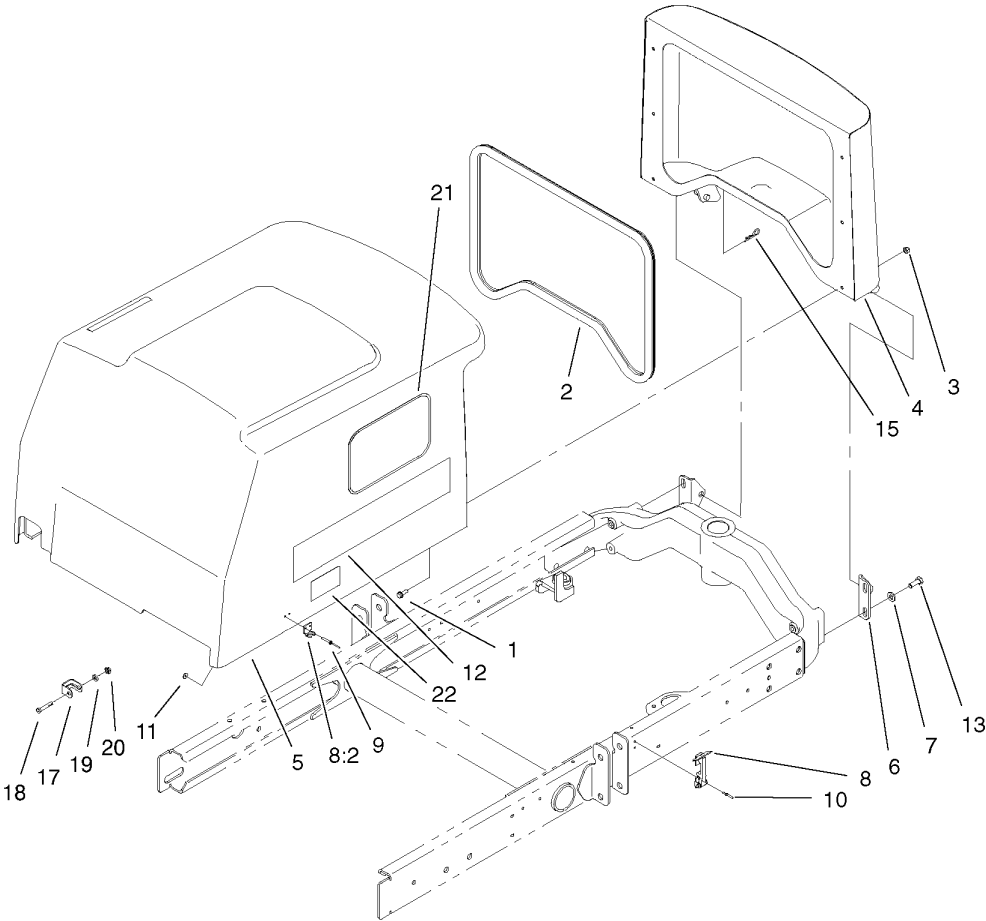
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	95-8946	1	Hose-Upper, Air Inlet	18	3234-17	3	Screw-HHF
2	95-8947	1	Hose-Lower, Air Inlet				
3	32128-44	6	Nut				
4	3234-5	3	Screw				
5	3256-23	2	Washer-Flat				
6	33114-016	2	Screw-HH				
7	99-3355-03	1	Bracket-Filter, Air				
8	2412-92	4	Clamp-Hose				
9	93-2190	1	Air Cleaner ASM				
9:2	93-2195	1	Filter				
9:3	94-3652	1	Cover ASM				
9:4	94-1414	1	Valve-Vacuator				
9:5	285-17	1	Plug-Pipe				
11	33014-00	4	Nut-Hex				
12	42-9850	4	Washer-Lock, Spring				
13	93-2191	1	Band-Mounting, Air Cleaner				
13:1		1	Clamp ASM				
13:2	94-3653	1	Bolt				
13:3	94-3654	1	Spring				
13:4	48-9510	1	Nut				
14	104-4834	1	Muffler				
15	95-8943-03	1	Bracket-Muffler				
16	99-3425-03	1	Guard-Exhaust				
17	32144-4	4	Screw-HWH				



Radiator Assembly

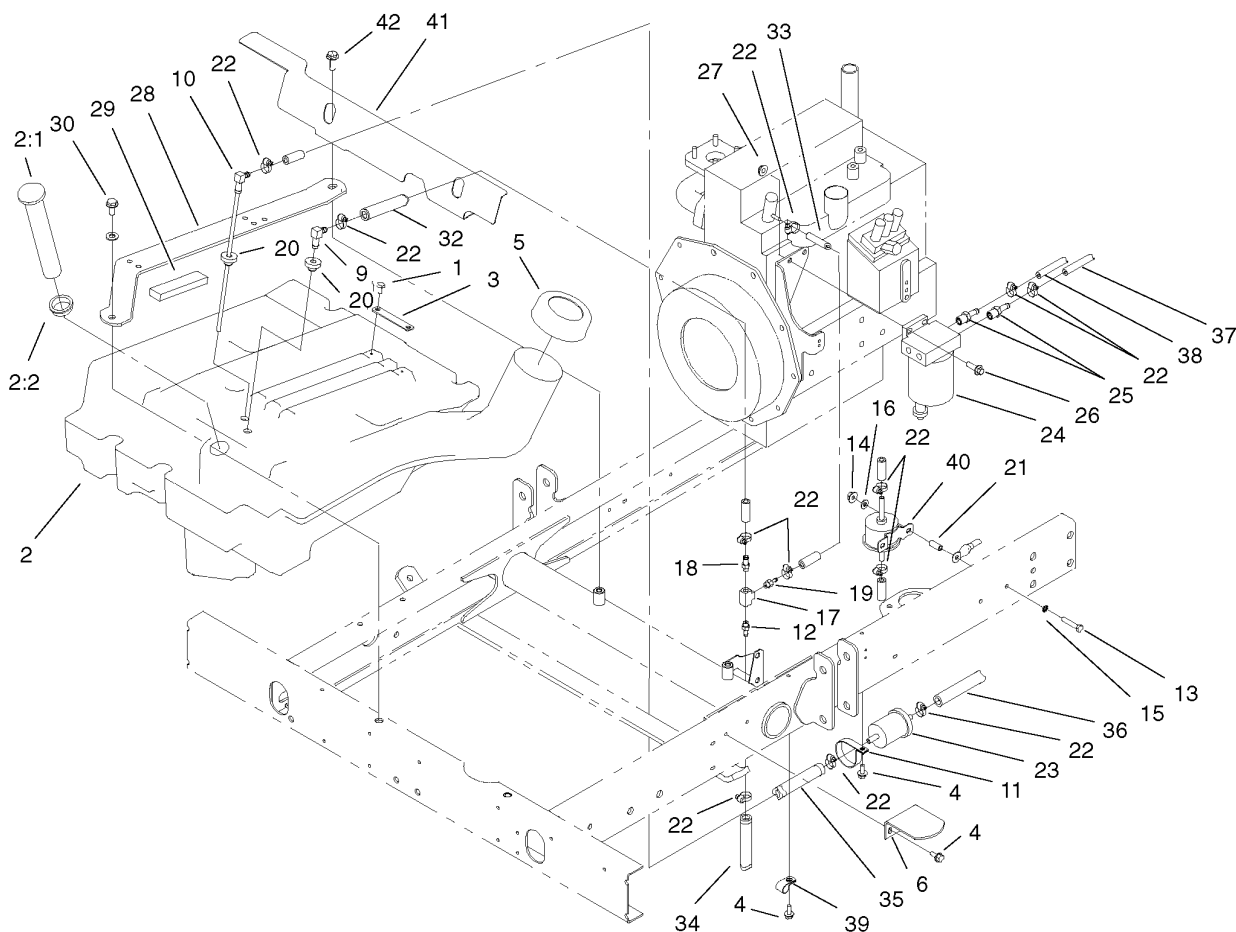
Ref	Part No.	Qty.	Description
1	304-46	1	Draincock
2	32104-116	11	Screw
3	32128-44	4	Nut
4	3230-1	4	Bolt-CARR
5	95-8934	1	Radiator
5:1	93-5957	1	Cap-Radiator
6	99-3580	1	Shroud-Fan, Top
6:2	93-6681	1	Decal-Warning, Fan
7	99-3360-03	1	Shroud-Fan, Bottom
8	3234-1	4	Screw-HHF
9	92-2379	2	Clamp-Hose
10	100-4903-03	1	Radiator Frame ASM
12	95-8962	2	Seal-Foam, Radiator
13	3234-5	2	Screw
14	95-8879-03	1	Bracket-Reservoir
15	95-8939	2	Spring-Clip
16	3269-22	1	Rivet-Pop
17	3269-23	1	Rivet-Pop
19	99-3390	1	Lanyard
20	95-8702-03	1	Shield-Radiator, Lower
21	99-3497	1	Magnet
22	75-1040	1	Cooler-Oil
23	95-8944	1	Hose-Radiator, Upper
24	95-8945	1	Hose-Radiator, Lower

Ref	Part No.	Qty.	Description
25	2412-34	2	Clamp-Hose
26	95-8704	1	Tube-Hydro
27	95-8705	1	Tube-Hydro
28	95-8706	2	Hose-Hydro
29	95-8710	2	Fitting-Barb
30	2412-36	5	Clamp-Hose
31	3290-378	2	Tie-Cable
32	99-3481	2	Grommet
33	66-8800	1	Relay
34	32105-13	2	Screw-SHH
35	63-9640	1	Hose
36	56-7985	1	Sleeve-Protective
37	99-3500	1	Hose
38	3296-2	2	Nut-Lock
40	104-9318	1	Bottle-Overflow
42	32128-20	2	Nut-HF
②*99	3290-379	1	Tie-Cable



Hood Assembly

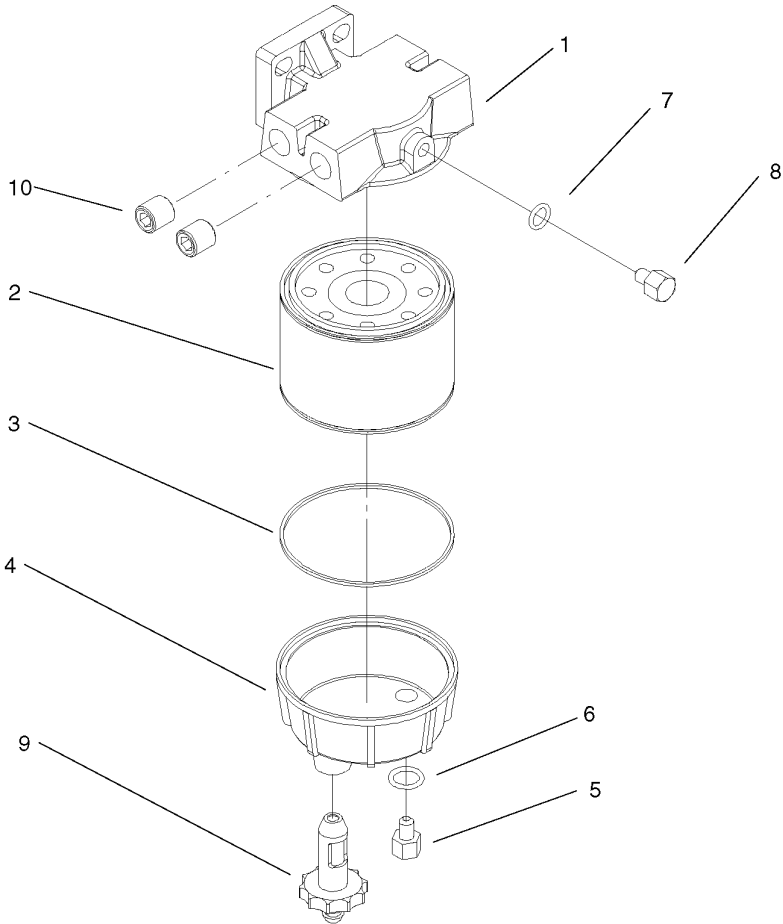
Ref	Part No.	Qty.	Description				
1	3234-4	6	Screw-HHF				
2	95-8809	1	Trim-Seal				
3	3296-42	6	Nut-Lock, NI				
4	95-8724-03	1	Screen-Hood				
5	95-8935	1	Hood ASM				
6	95-8728	2	Bracket-Pivot, Hood				
7	3256-24	8	Washer-Flat				
8	59-9740	2	Flex Draw Latch ASM				
8:2	249-40	1	Keeper				
9	98-7310	4	Rivet				
10	3290-55	4	Rivet-Pop				
11	3269-10	4	Washer-Back				
12	104-5153	2	Decal-Hood				
13	323-6	4	Screw-HH				
15	3290-467	1	Pin-Hair				
17	99-3568	1	Bracket-Lock,Ce				
18	321-9	1	Screw-HH				
19	3256-22	1	Washer-Flat				
20	3296-42	1	Nut-Lock, NI				
21	66-6140	2	Decal-Logo, Toro				
22	100-6574	1	Decal-Warning				



Fuel Tank Assembly

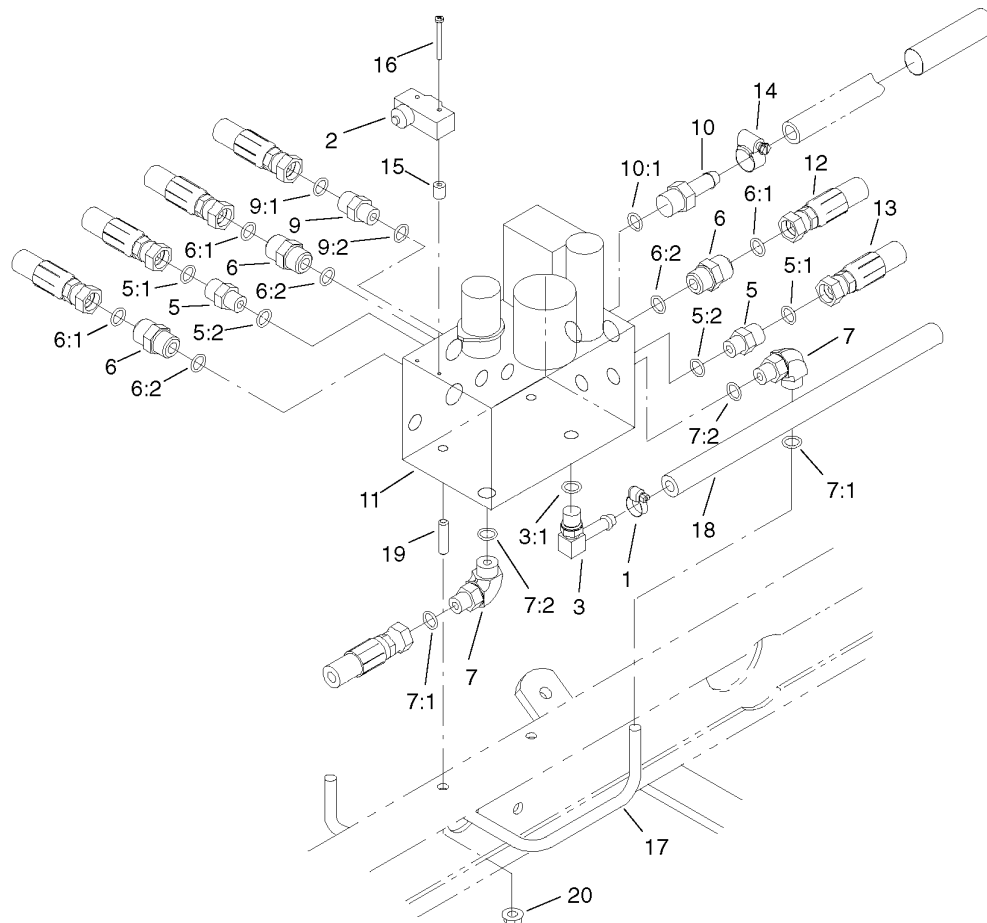
Ref	Part No.	Qty.	Description
1	321-2	2	Screw-HH
2	95-8620	1	Tank-Fuel
2:1	95-8971	1	Guage-Fuel
2:2	95-8972	1	Grommet
3	95-8881	1	Strap-Line, Fuel
4	32144-10	4	Screw-HWH
5	95-4193	1	Diesel Gas Cap ASM
6	95-8968-03	1	Support-Tank, Fuel
9	46-6550	1	Fitting-HYD, 90Ø
10	66-8121	1	Standpipe
11	2412-148	1	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
26	3234-17	2	Screw-HHF
27	32128-44	2	Nut
28	104-4847-03	2	Strap-Support, Seat
29	95-8896	2	Foam
30	3234-11	2	Screw-HHF
32	71-3380	1	Hose-Fuel
33	99-3498	1	Return-Line, Fuel
34	99-3185	1	Hose-Fuel
35	71-3383	1	Hose-Fuel
36	104-4848	1	Hose-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	104-4833-03	1	Shield-Heat
42	3234-24	2	Screw-HHF
②*99	3290-379	2	Tie-Cable



Water / Fuel Filter Assembly No. 98-9305

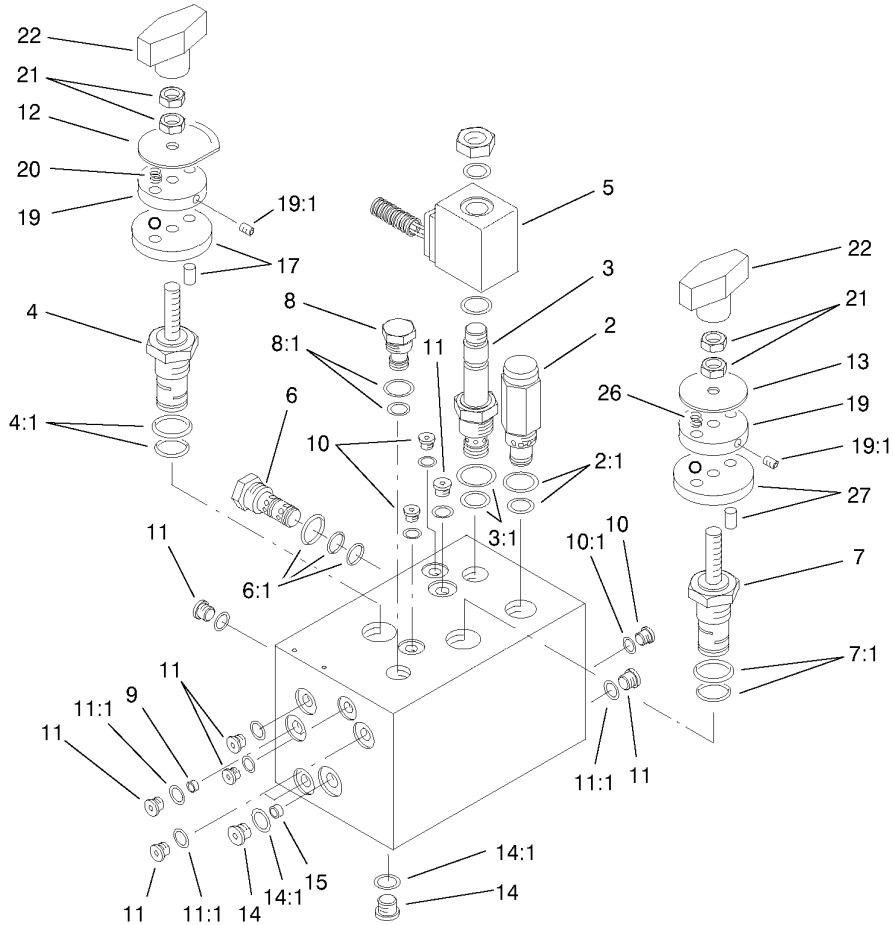
Ref	Part No.	Qty.	Description				
1	98-9772	1	Head-Filter				
2	98-9764	1	Element				
3	98-9774	1	O-Ring-Base, Filter				
4	98-9775	1	Base-Filter				
5	98-9773	1	Plug-Base, Filter				
6	237-42	1	O-Ring				
7	237-78	1	O-Ring				
8	98-9776	1	Plug-Head, Filter				
9	98-9777	1	Drain Valve ASM				
10	285-22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



Manifold Block Assembly

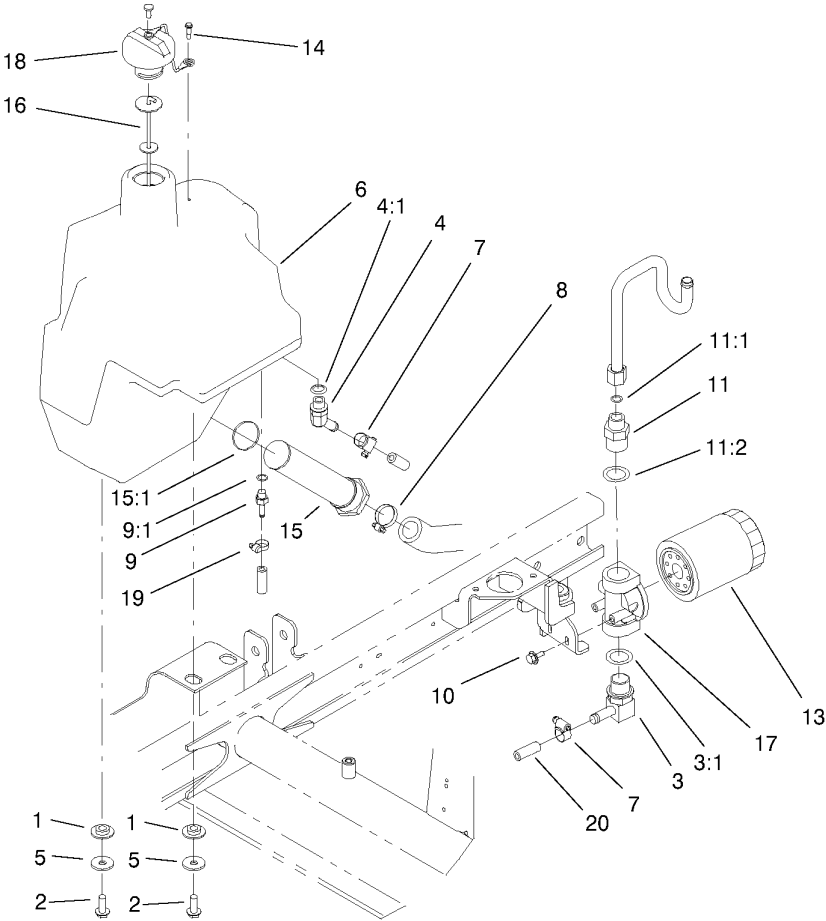
Ref	Part No.	Qty.	Description
1	2412-36	1	Clamp-Hose
2	29-6162	1	Switch-Micro
3	100-4887	1	Fitting-Barb
3:1	237-42	1	O-Ring
5	340-2	3	Fitting-HYD, Straight
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
6	340-4	3	Adapter
6:1	237-30	1	O-Ring
6:2	237-79	1	O-Ring
7	340-77	2	Fitting-HYD, 90°
7:1	237-22	1	O-Ring
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	354-121	1	Fitting-HYD, Straight
10:1	237-79	1	O-Ring
11	104-4841	1	Manifold-HYD
12	95-8829	1	Hose ASM
13	106-4197	1	Hose-ASM
14	2412-36	1	Clamp-Hose
15	95-8762	2	Spacer
16	3250-46	2	Screw-PPH

Ref	Part No.	Qty.	Description
17	99-3551	1	Tube ASM
18	104-4846	1	Hose
19	104-0430	2	Stud
20	32128-20	2	Nut-HF



Hydraulic Manifold Assembly No. 104-4841

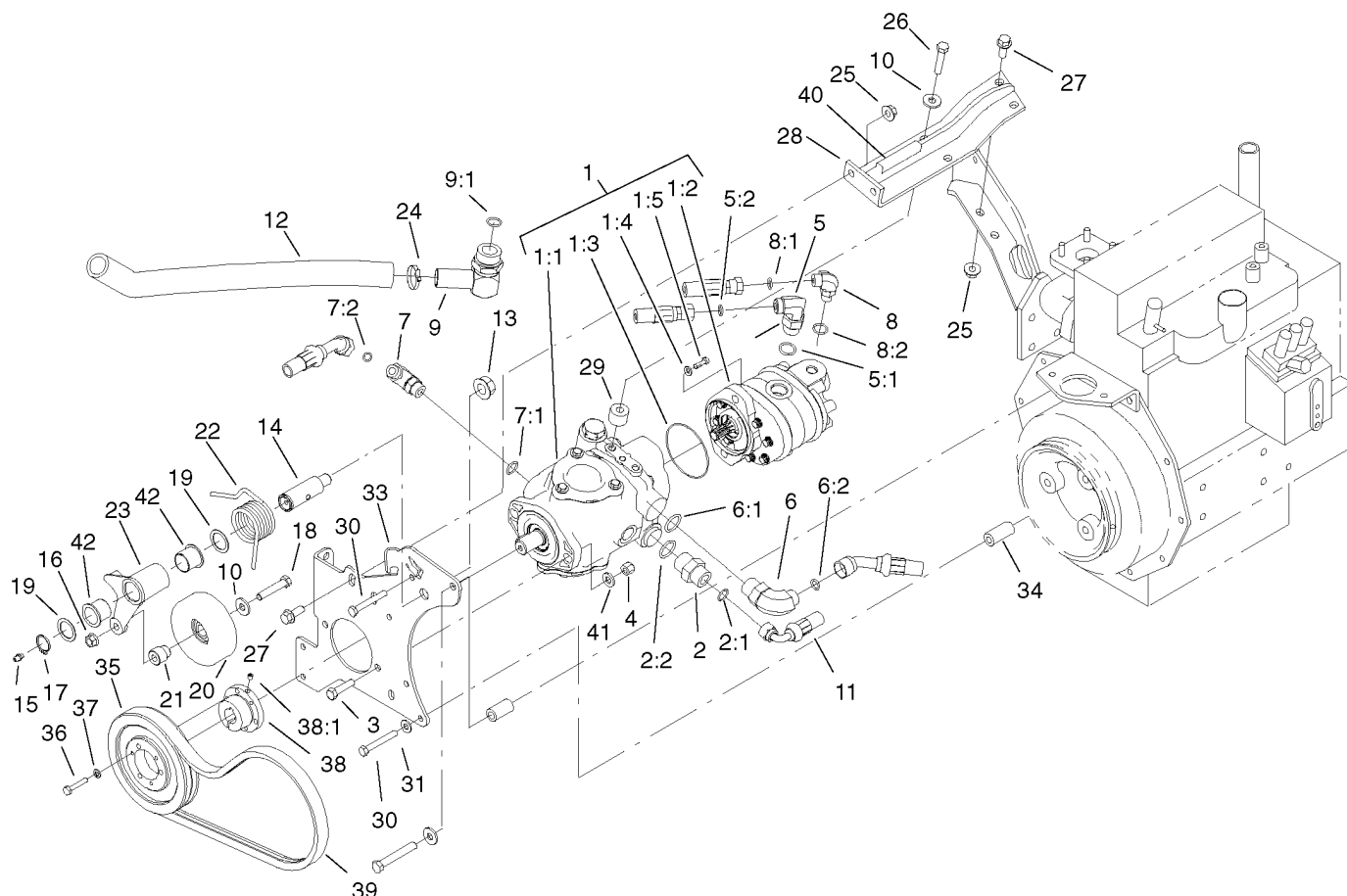
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
2	94-3655	1	Valve-Relief	19	94-5023	2	Plate-Detent
2:1	75-2080	1	Seal Kit	19:1	3245-36	1	Screw-HSH
3	93-7494	1	Cartridge	20	94-5024	2	Spring
3:1	75-2080	1	Seal Kit	21	3218-1	4	Nut-Jam
4	94-3657	1	Spool ASM	22	94-5020	2	Knob ASM
4:1	94-3661	1	4-Way Seal Kit	26	94-5027	2	Spring
5	83-2010	1	Coil-Valve	27	94-5025	1	Plate-Locating
6	69-4120	1	Cartridge-Logic				
6:1	69-4240	1	Seal Kit				
7	94-3659	1	Control-Flow, Rotary				
7:1	75-2080	1	Seal Kit				
8	99-3542	1	Cartridge-Plug, Cavity				
8:1	69-4240	1	Seal Kit				
9	95-5999	2	Plug-Orifice				
10	353-991	4	Plug-Hex, Hollow				
10:1	237-156	1	O-Ring				
11	353-990	12	Plug				
11:1	237-78	1	O-Ring				
12	99-3543	1	Plate-Indicator				
13	94-5026	1	Plate-Indicator				
14	353-989	3	Plug-Hex, Hollow				
14:1	237-42	1	O-Ring				
15	99-3544	1	Plug				
17	94-5021	1	Plate-Locating				



Hydraulic Tank Assembly

Ref	Part No.	Qty.	Description
1	240-11	4	Grommet-Mount, Tank
2	3234-11	4	Screw-HHF
3	95-8814	1	Fitting-Barbed, 90Ø
3:1	237-81	1	O-Ring
4	354-126	1	Fitting-HYD, 45Ø
4:1	237-79	1	O-Ring
5	63-8410	4	Washer
6	104-4840	1	Tank-HYD
7	2412-36	2	Clamp-Hose
8	2412-34	1	Clamp-Hose
9	353-979	1	Fitting-Barbed, Straight
9:1	237-42	1	O-Ring
10	3234-13	2	Screw-HHF
11	340-8	1	Adapter
11:1	237-65	1	O-Ring
11:2	237-81	1	O-Ring
13	54-0110	1	Filter-Oil, Transmission
14	57-5420	1	Screw-Shoulder
15	104-7546	1	Strainer-Tank
15:1	340-136	1	O-Ring
16	75-3710	1	Dipstick
17	92-5821	1	Filter Head ASM
18	93-7160	1	Cap-Oil, HYD
19	2412-36	1	Clamp-Hose

Ref	Part No.	Qty.	Description
20	99-3501	1	Hose

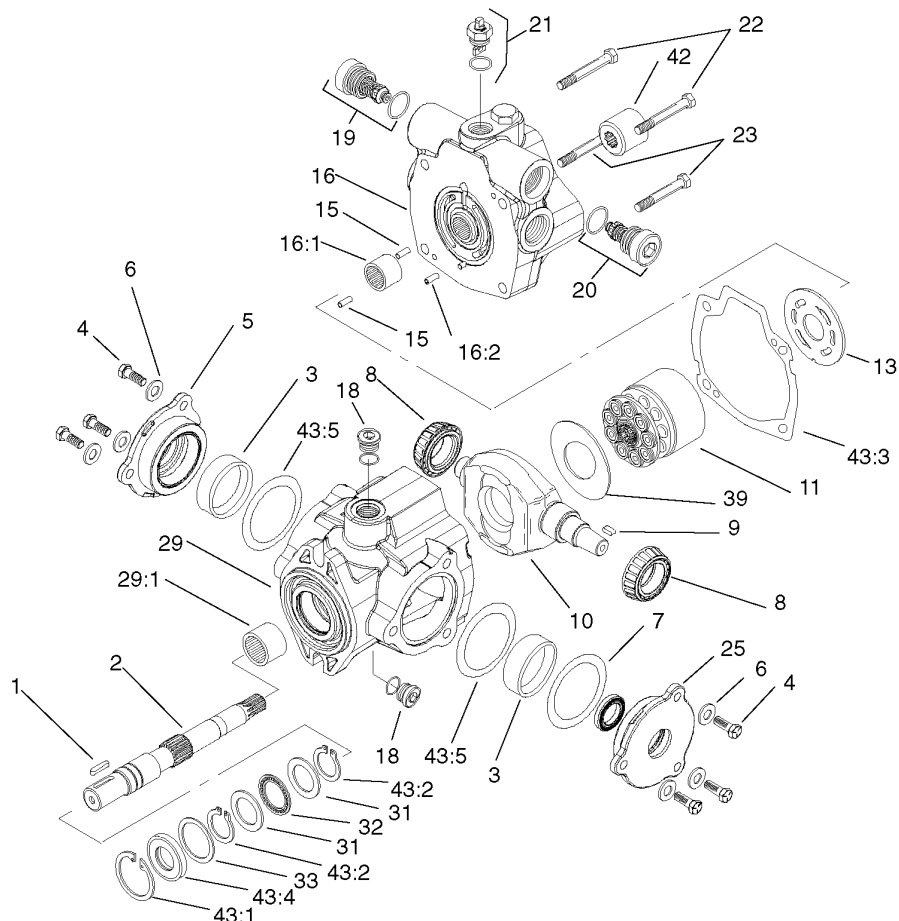


Hydrostat Assembly

Ref	Part No.	Qty.	Description
1		1	Tandem Pump ASM
1:1	104-4890	1	Pump-Piston, 1.44 Cid
1:2	95-8601	1	Pump-Gear
1:3	60-3520	1	O-Ring
1:4	3256-24	2	Washer-Flat
1:5	3274-1	2	Screw-HSH
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	340-105	1	Fitting-HYD, 90°
5:1	237-80	1	O-Ring
5:2	237-30	1	O-Ring
6	340-139	1	Fitting-HYD, 90°
6:1	237-81	1	O-Ring
6:2	237-65	1	O-Ring
7	340-18	1	Fitting-HYD, 90°
7:1	237-79	1	O-Ring
7:2	237-22	1	O-Ring
8	340-77	1	Fitting-HYD, 90°
8:1	237-22	1	O-Ring
8:2	237-42	1	O-Ring
9	56-9530	1	Fitting-HYD, 90°

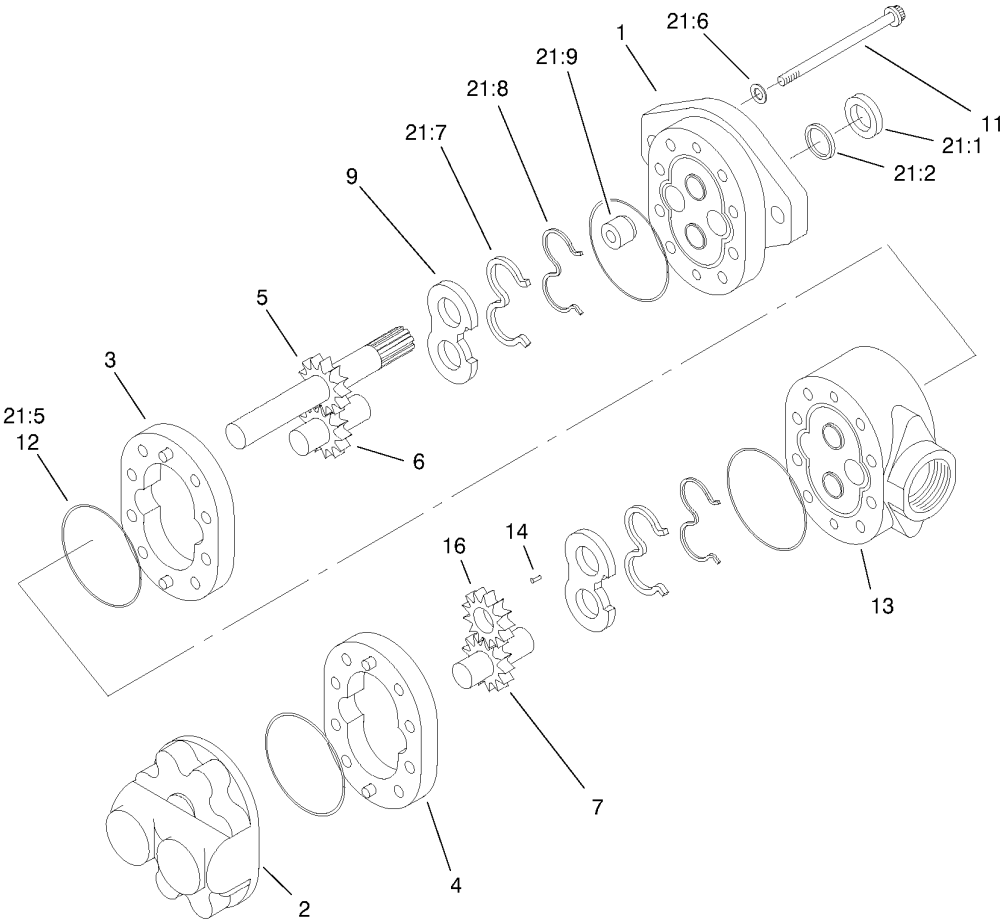
Ref	Part No.	Qty.	Description
9:1	237-117	1	O-Ring
10	80-6990	3	Washer-Hardened
11	105-1214	1	Hose ASM
12	104-4845	1	Hose-Suction
13	32128-54	1	Nut-Flange
14	99-3529	1	Shaft-Pivot, Idler
15	302-5	1	Fitting-Grease
16	32128-21	1	Nut-HF
17	32151-36	1	Ring-Retaining
18	323-10	1	Screw-HH
19	74-1810	2	Washer
20	95-8802	1	Pulley-Idler
21	95-8806	1	Spacer
22	95-8917	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

31



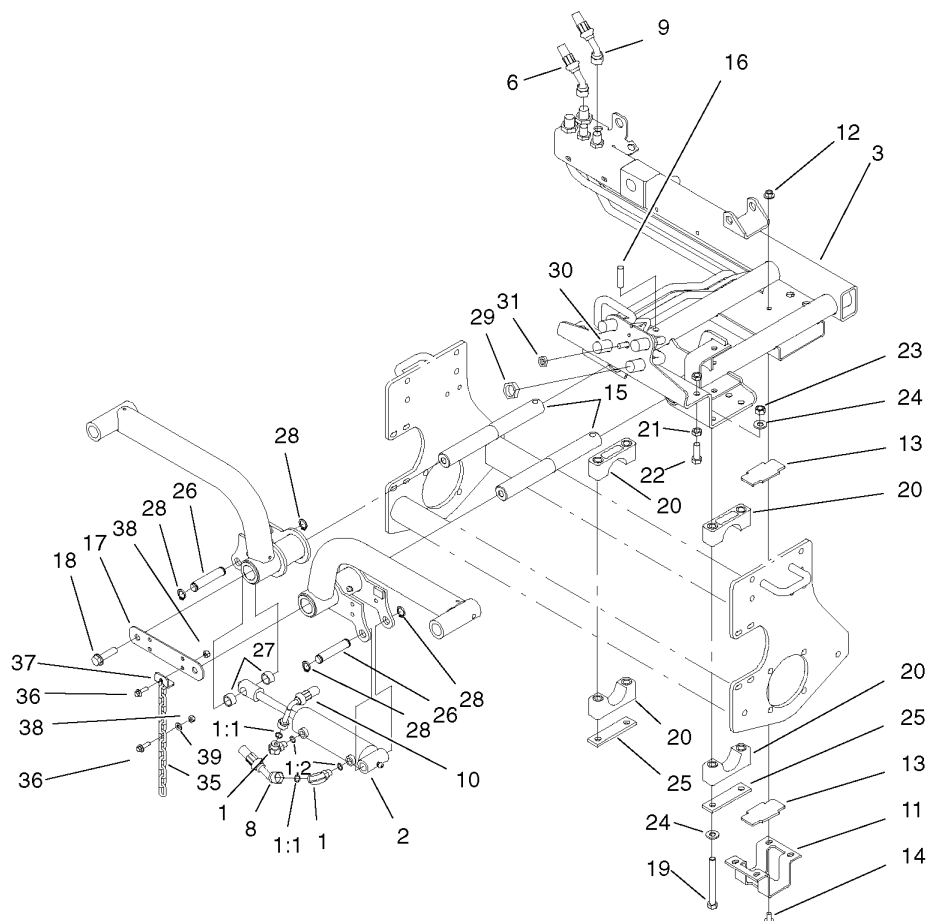
Piston Pump Assembly No. 104-4890

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	94-3645	1	Key	29:1	94-6363	1	Bearing
2	94-6359	1	Shaft-Drive	31	252-71	2	Washer-Thrust
3	104-4046	2	Bearing-Cup	32	252-66	1	Bearing-Thrust
4	98-4640	6	Screw-Cap	33	33-3720	1	Washer
5	98-4644	1	Plate-Cover	39	98-4635	1	Insert-Plate, Cam
6	105-9762	6	Washer	42	74-9040	1	Coupler
7	100-3182	2	Shim Kit	43	104-4868	1	Seal Repair Kit
8	98-4639	2	Bearing-Cone	43:1	32151-13	1	Ring-Retaining
9	94-3646	1	Key	43:2	32151-29	1	Ring-Retaining
10	104-4888	1	Swashplate	43:3	33-4930	1	Gasket-Housing
11	76-6070	1	Rotating Kit	43:4	104-4861	1	Seal-Shaft
13	104-0429	1	Plate-Cam	43:5	100-3179	1	O-Ring
15	76-6150	2	Pin-Dowel				
16	105-3813	1	Endcover Sub ASM				
16:1	94-6368	1	Bearing				
16:2		1	Pin-Roll				
18	74-9280	2	Plug ASM				
19	104-4889	1	Relief Valve ASM				
20	105-3812	1	Valve-Check				
21	105-3811	1	Valve-Bypass				
22	76-6170	2	Capscrew				
23	76-6160	2	Capscrew				
25	98-4645	1	Plate-Cover				
29	100-3176	1	Housing ASM				



Gear Pump Assembly No. 95-8601

Ref	Part No.	Qty.	Description				
❶1		1	Plate-Front				
❷2		1	Plate-Back				
❸3		1	Body				
4	95-4364	1	Body				
❹5		1	Gear-Drive				
❺6		1	Gear-Idler				
7	95-4366	1	Gear-Idler				
9	95-4368	2	Plate-Wear				
11	94-8158	8	Screw-Cap				
❶12		4	O-Ring				
❶13		1	Plate-Adapter				
❶14		1	Key				
16	95-4373	1	Gear-Fit, Slip				
21	94-8161	1	Seal Repair Kit				
21:1	49-2640	1	Seal-Shaft				
21:2	60-5890	1	Washer				
❶21:5		4	O-Ring				
21:6	94-8160	4	Washer				
21:7	95-4369	2	Seal				
21:8	95-4367	2	Gasket				
21:9	94-3011	1	Plug				

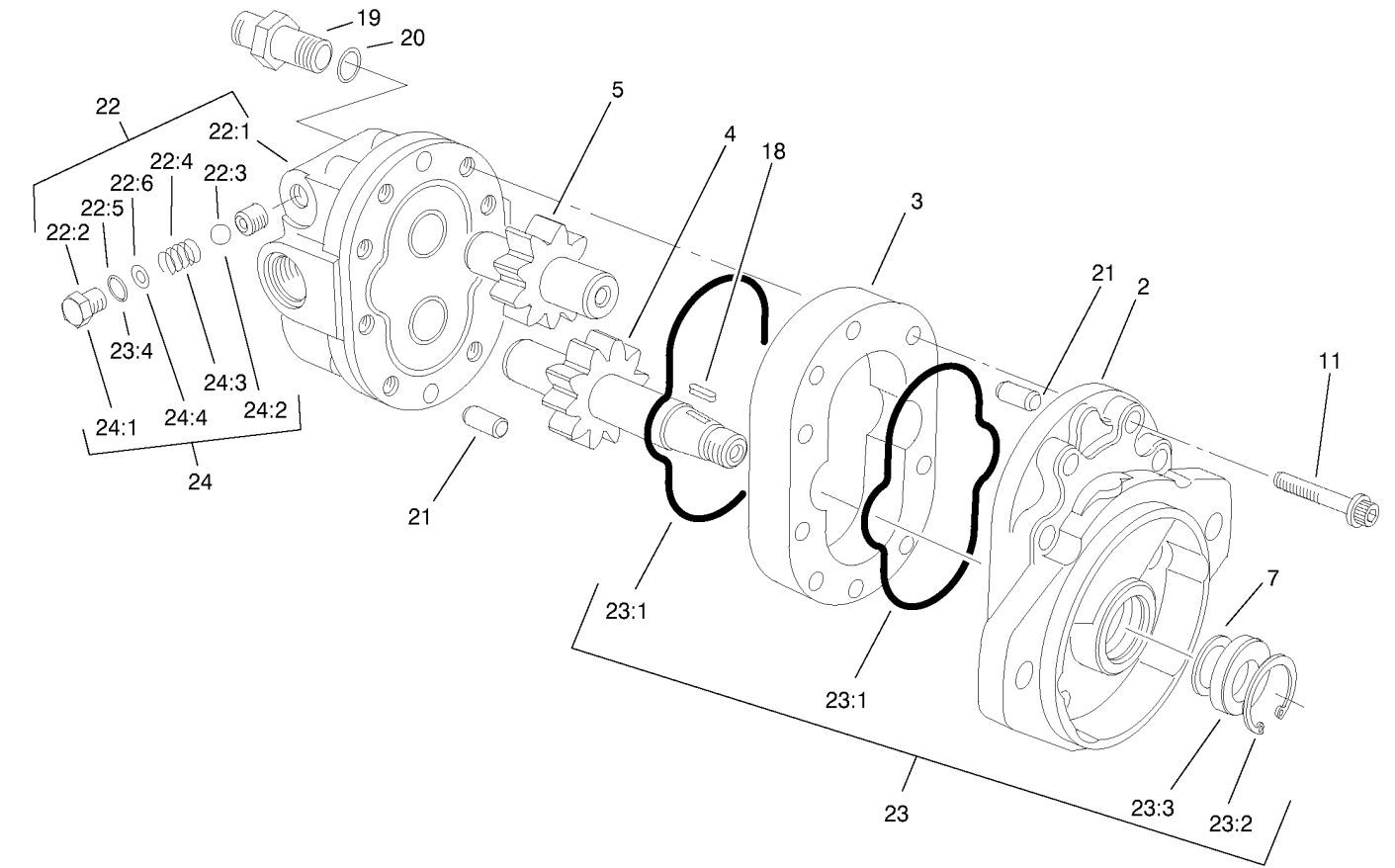


Carrier Assembly

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	100-4930-03	1	Carrier ASM
6	99-3575	1	Hose ASM
8	99-3439	1	Hose ASM
9	99-3579	1	Hose ASM
10	95-8840	1	Hose ASM
11	95-8904-03	1	Bracket-Clamp
12	32128-43	4	Nut-Flange
13	95-8538	1	Slide-Plastic
14	3234-1	4	Screw-HHF
15	95-8531	2	Shaft-Pivot, Liftarm
16	32121-122	2	Pin-Roll
17	95-8532-03	1	Link-Shaft, Pivot
18	3234-27	2	Screw-Flange
19	325-19	4	Screw-HH
20	95-8884	4	Clamp
21	3218-5	4	Nut-Jam
22	325-6	2	Screw-HH
23	3296-23	4	Nut-Lock, NI
24	87-7270	8	Washer-Thrust
25	99-3373	2	Bar-Support, Slide

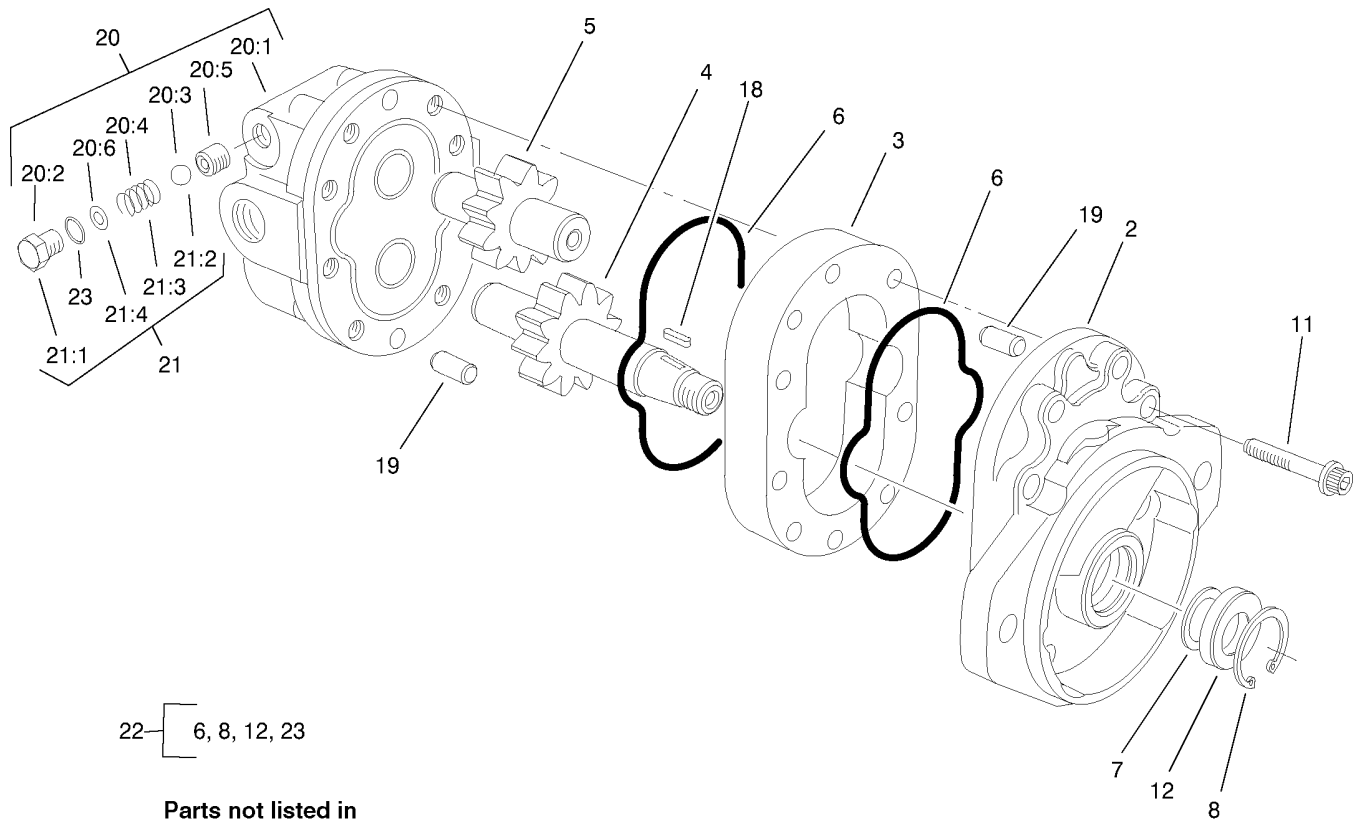
Ref	Part No.	Qty.	Description
26	95-8575	2	Pin
27	75-9590	2	Spacer-Cylinder
28	32120-93	4	Ring-Retaining
29	340-74	4	Locknut-Bulkhead
30	94-1319	1	Tube-HYD
31	340-78	1	Locknut-Bulkhead
35	98-7981	2	Chain-Link, Straight
36	3234-17	4	Screw-HHF
37	99-3550	2	Clip-Link
38	3296-29	4	Nut-Lock, NI
39	3256-23	2	Washer-Flat
②*99	3290-379	3	Tie-Cable
②*99	3290-378	1	Tie-Cable





Motor Gear Assembly No. 104-4884

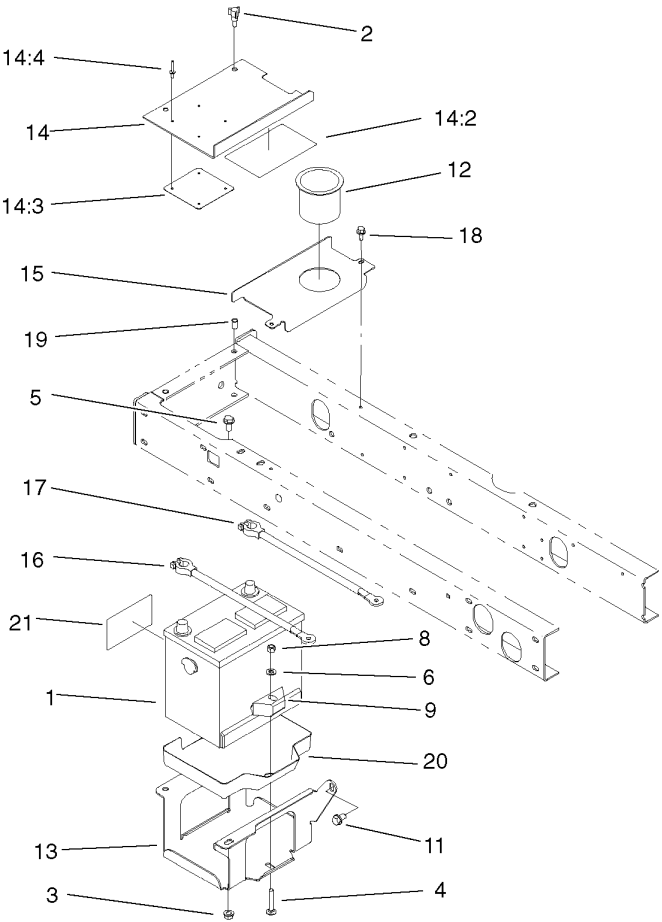
Ref	Part No.	Qty.	Description				
❶2		1	Front Plate ASM				
3	94-3603	1	Motor Body ASM				
4	94-3602	1	Drive Gear ASM				
5	94-3601	1	Idler Gear ASM				
7	60-5890	1	Washer				
11	94-3600	6	Capscrew				
18	94-3606	1	Key				
19	104-4830	4	Bolt-Stud				
20	60-6410	4	O-Ring				
21	42-2010	2	Pin-Dowel				
22	94-3604	1	Backplate ASM				
23	93-1413	1	Seal Kit				
23:1	59-8420	2	Ring				
23:2	59-8320	1	Ring-Retaining				
23:3	66-5710	1	Seal-Shaft				
❶23:4		2	O-Ring				
24	92-9260	1	Relief Valve Kit				
❶24:1		2	Plug				
❶24:2		2	Ball				
❶24:3		2	Spring				
❶24:4		2	Shim				



Parts not listed in
partlist are not
serviced separately.

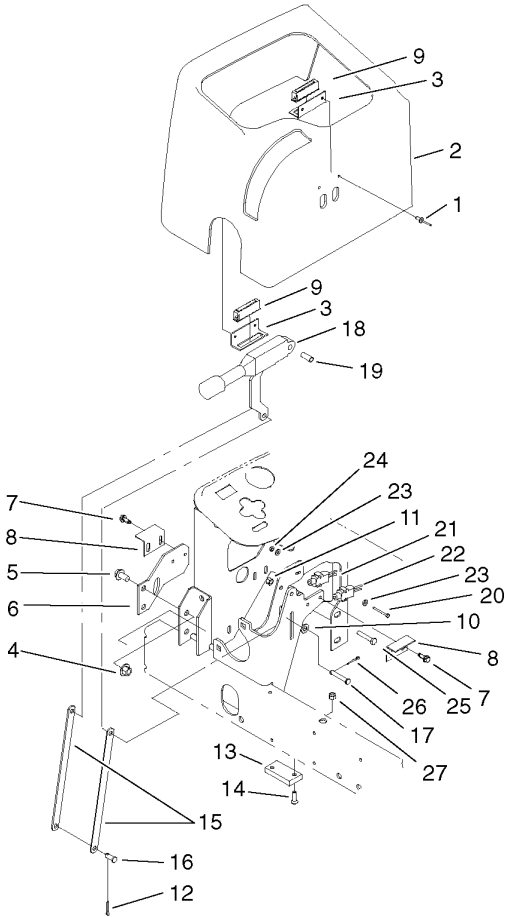
Motor Gear Assembly No. 104-5164

Ref	Part No.	Qty.	Description
❶ 2		1	Front Plate ASM
3	94-3603	1	Motor Body ASM
4	94-3602	1	Drive Gear ASM
5	94-3601	1	Idler Gear ASM
6	59-8420	2	Ring
7	60-5890	1	Washer
8	59-8320	1	Ring-Retaining
11	94-3600	6	Capscrew
12	66-5710	1	Seal-Shaft
18	94-3606	1	Key
19	42-2010	2	Pin-Dowel
20	94-3605	1	Backplate ASM
❶ 20:1		1	Backplate
❶ 20:2		2	Plug
❶ 20:3		2	Ball
❶ 20:4		2	Spring
❶ 20:5		2	Seat
❶ 20:6		2	Shim
21	92-9260	1	Relief Valve Kit
❶ 21:1		2	Plug
❶ 21:2		2	Ball
❶ 21:3		2	Spring
❶ 21:4		2	Shim
22	93-1413	1	Seal Kit



Battery Assembly

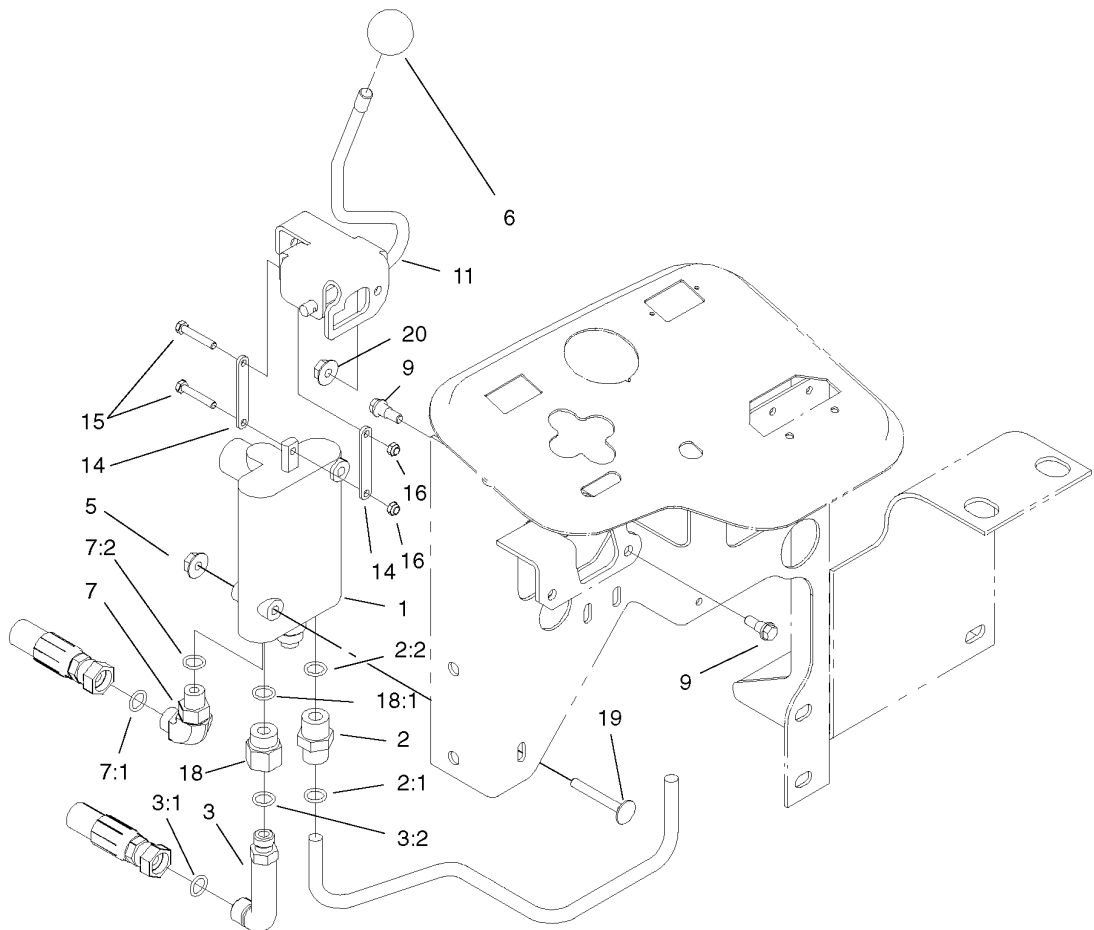
Ref	Part No.	Qty.	Description				
1	104-9979	1	Battery (Dry)				
2	233-70	2	Knob-3 Star				
3	32128-43	3	Nut-Flange				
4	3230-6	1	Screw-CARR				
5	3234-1	3	Screw-HHF				
6	3256-23	1	Washer-Flat				
8	3296-29	1	Nut-Lock, NI				
9	66-2490	1	Retainer-Battery				
11	32144-15	1	Screw				
12	94-1410	1	Holder-Can, Beverage				
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				
15	95-8817-01	1	Cover-Battery, Inner				
16	95-8853	1	Cable-Battery, Positive				
17	95-8854	1	Cable-Battery, Negative				
18	32144-4	2	Screw-HWH				
19	32148-6	2	Insert-Nut				
20	99-3513	1	Tray-Battery				
21	93-6668	1	Decal-Battery				



Parking Brake Assembly

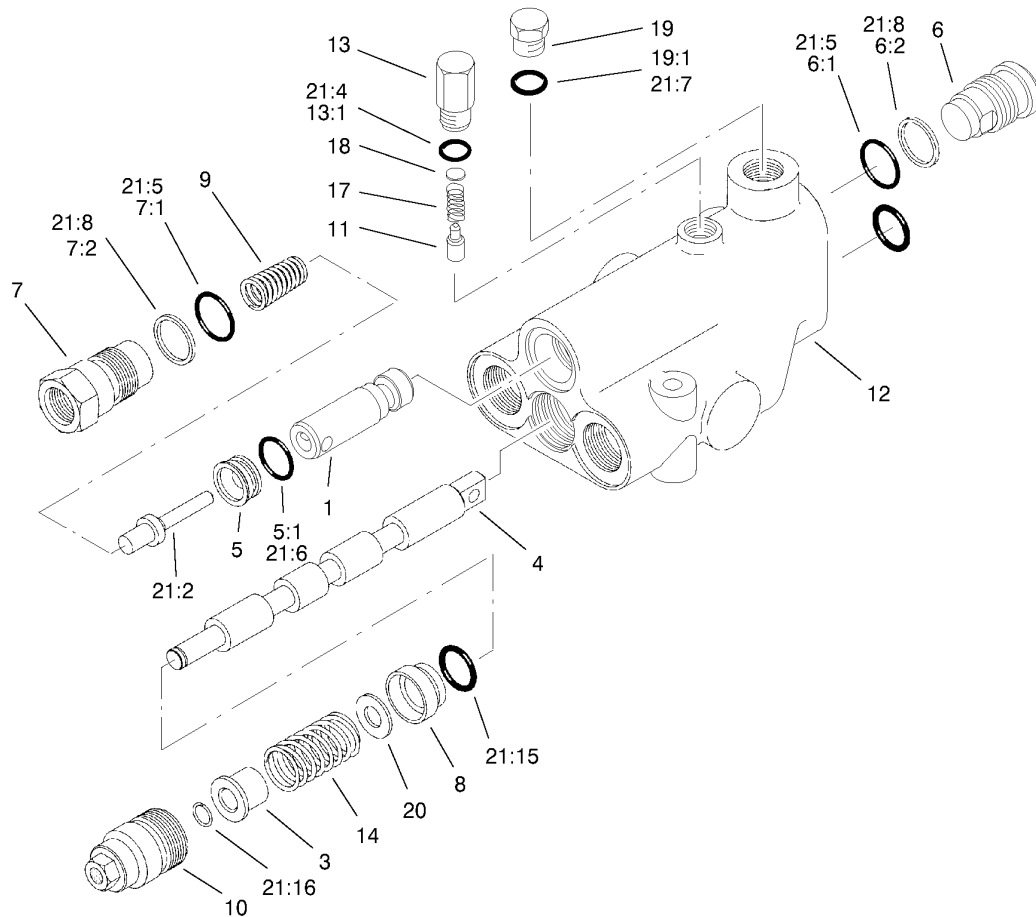
Ref	Part No.	Qty.	Description
1	3269-5	4	Rivet
2	95-8707	1	Cover-Dash
3	95-8763	2	Bracket-Hold Down, Cover
4	32128-43	2	Nut-Flange
5	3234-1	2	Screw-HHF
6	95-8764-03	1	Support-Magnet
7	32144-10	4	Screw-HWH
8	95-8765	2	Bracket-Strike, Magnet
9	58-4250	2	Catch-Magnetic
10	3256-23	1	Washer-Flat
11	3296-42	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	32105-21	2	Screw-HH
21	95-8900	1	Switch
22	99-3410	1	Switch
23	3256-21	6	Washer-Flat
24	3296-9	2	Nut-Lock, NI

Ref	Part No.	Qty.	Description
25	321-10	1	Screw-HH
26	3272-6	1	Pin-Cotter
27	32128-32	2	Nut-HHF



Control Valve Assembly

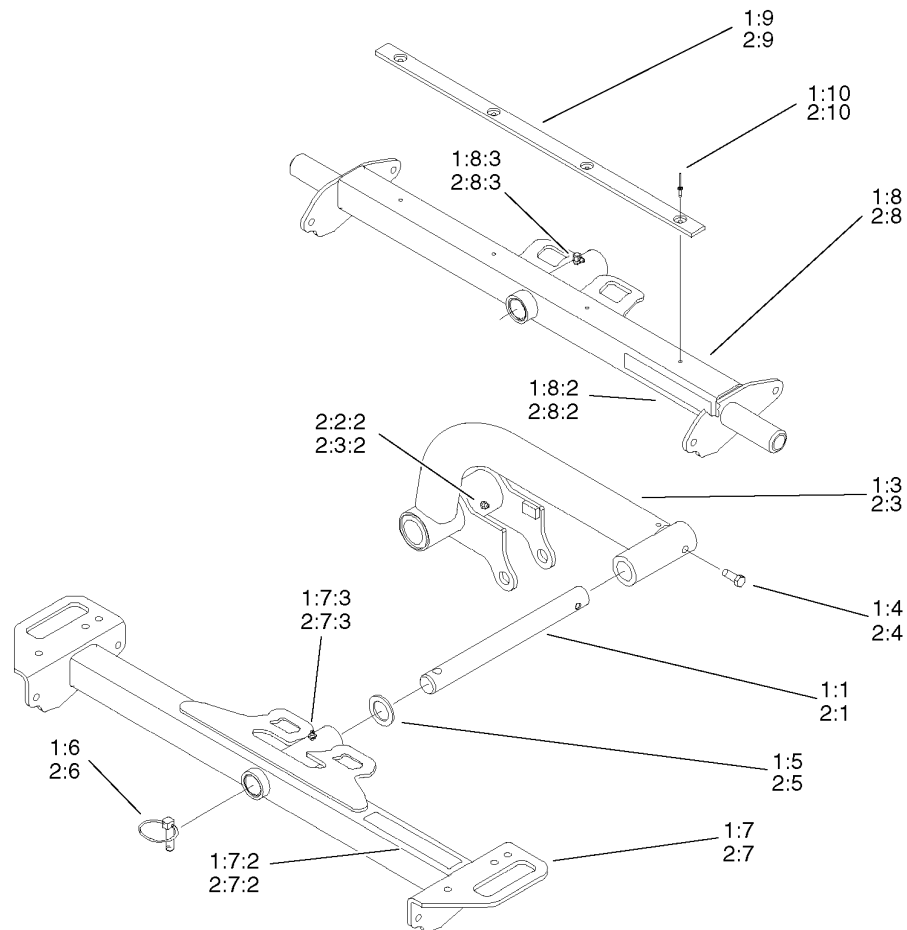
Ref	Part No.	Qty.	Description				
1	95-8689	1	Valve				
2	340-3	1	Adapter				
2:1	237-22	1	O-Ring				
2:2	237-79	1	O-Ring				
3	69-4320	1	Fitting-90Ø				
3:1	237-22	1	O-Ring				
3:2	237-42	1	O-Ring				
5	32128-33	2	Nut-HF				
6	233-42	1	Knob				
7	340-77	1	Fitting-HYD, 90Ø				
7:1	237-22	1	O-Ring				
7:2	237-42	1	O-Ring				
9	42-3560	2	Bolt-Shoulder				
11	95-8692	1	Lever ASM				
14	95-8634	2	Link				
15	87-5150	2	Bolt				
16	87-5140	2	Nut-Lock				
18	353-397	1	Reducer-Adapter				
18:1	237-79	1	O-Ring				
19	3230-33	2	Screw-CARR				
20	32128-32	2	Nut-HHF				



Valve Assembly No. 95-8689

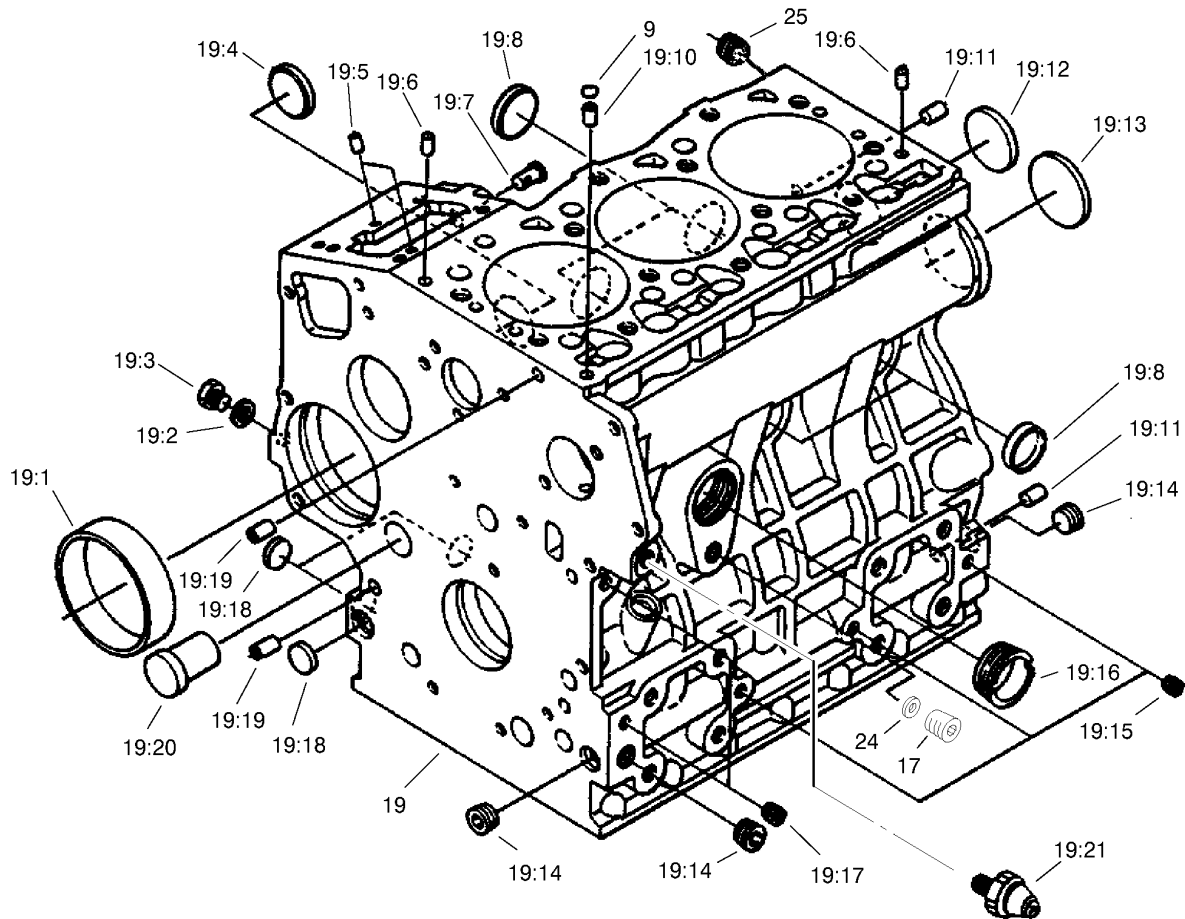
Ref	Part No.	Qty.	Description
1	99-3586	1	Plunger
3	58-6310	1	Spacer
①4		1	Spool
5	58-6330	1	Seat
5:1	58-6340	1	O-Ring
6	58-6350	1	Plug
6:1	60-5720	1	O-Ring
6:2	58-6370	1	Washer
7	99-3527	1	Plug ASM
7:1	60-5720	1	O-Ring
7:2	59-7730	1	Washer-Backup
8	58-6400	1	Bushing
9	69-1810	1	Spring
10	58-6420	1	Cap
11	99-3585	1	Detent-Plunger
①12		1	Body
13	99-3588	1	Plug ASM
13:1	60-6410	1	O-Ring
14	99-3531	1	Spring
17	99-3587	1	Spring
18	60-6450	1	Disc
19	353-989	1	Plug-Hex, Hollow
19:1	237-42	1	O-Ring
20	65-2770	1	Washer

Ref	Part No.	Qty.	Description
21	99-3589	1	Kit-Seal
21:2	58-6290	1	Poppet
21:4	60-6410	1	O-Ring
21:5	60-5720	2	O-Ring
21:6	58-6340	1	O-Ring
21:7	237-42	1	O-Ring
21:8	59-7730	2	Washer-Backup
21:15	58-6450	1	O-Ring
21:16	58-6460	1	Ring



Lift Arm Kit Assembly

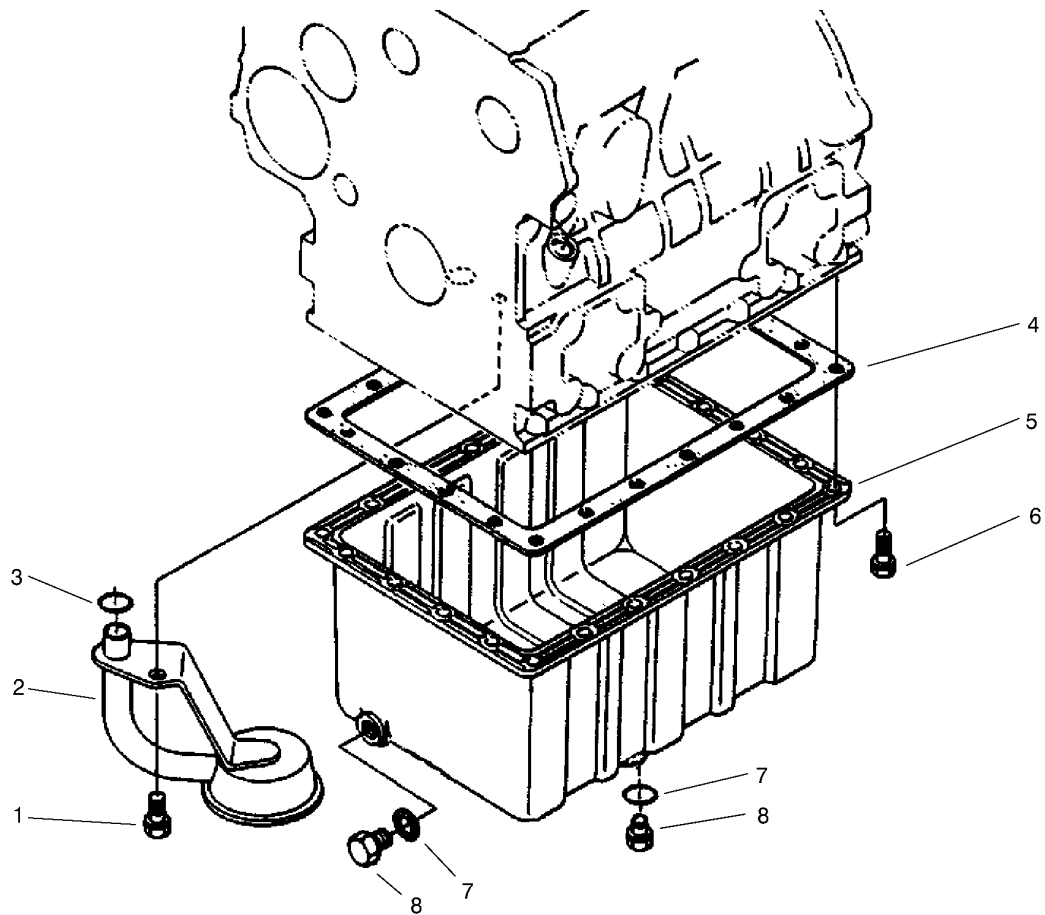
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
❶1		1	27In Lift Arm Kit	2:7	99-3507	2	Front Carrier Frame ASM
1:1	95-8979	2	Shaft	2:7:2	94-3353	1	Decal-Point, Pinch
❷*1:2	95-8553	1	RH Short Liftarm ASM	2:7:3	302-5	1	Fitting-Grease
1:3	95-8554	1	LH Short Liftarm ASM	2:8	99-3509	1	Rear Carrier Frame ASM
1:4	323-6	2	Screw-HH	2:8:2	94-3353	1	Decal-Point, Pinch
1:5	3-6781	2	Washer-Thrust	2:8:3	302-60	1	Fitting-Grease
1:6	283-71	2	Pin-Lynch	2:9	95-8936	1	Strip-Wear
1:7	99-3506	2	Front Carrier Frame ASM	2:10	3269-18	4	Rivet-Pop, Steel
1:7:2	94-3353	1	Decal-Point, Pinch				
1:7:3	302-5	1	Fitting-Grease				
1:8	99-3508	1	Rear Carrier Frame ASM				
1:8:2	94-3353	1	Decal-Point, Pinch				
1:8:3	302-60	1	Fitting-Grease				
1:9	95-8936	1	Strip-Wear				
1:10	3269-18	4	Rivet-Pop, Steel				
❶2		1	32In Lift Arm Kit				
2:1	95-8979	2	Shaft				
❷*2:2	95-8550	1	RH Long Liftarm ASM				
2:2:2	302-5	1	Fitting-Grease				
2:3	95-8551	1	LH Long Liftarm ASM				
2:3:2	302-5	1	Fitting-Grease				
2:4	323-6	2	Screw-HH				
2:5	3-6781	2	Washer-Thrust				
2:6	283-71	2	Pin-Lynch				



Crankcase Assembly

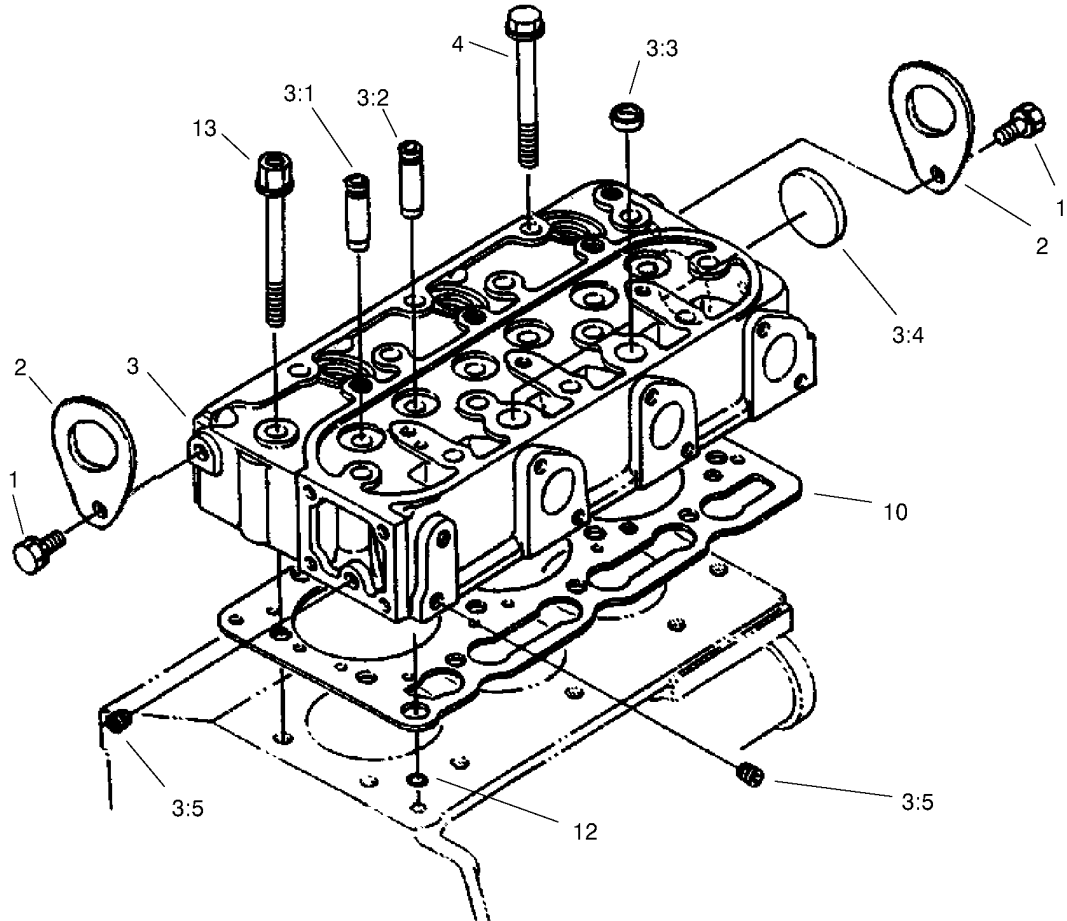
Ref	Part No.	Qty.	Description
9	98-7509	1	O-Ring
17	99-3447	1	Plug
19	98-9604	1	Crankcase ASM
19:1	98-9656	1	Bushing-Governor, Gear
19:2	98-7428	1	Gasket
19:3	98-7507	1	Plug
19:4	98-9599	1	Plug
19:5	98-9375	2	Pin-Straight
19:6	98-9376	2	Pin-Straight
19:7	98-9630	1	Pin-Spring, Start
19:8	98-9398	4	Cap-Sealing
19:10	98-9539	1	Pin-Pipe
19:11	98-9377	2	Pin-Straight
19:12	98-7540	1	Cap-Sealing
19:13	98-9668	1	Plug
19:14	98-9597	3	Plug
19:15	98-7539	3	Cap-Sealing
19:16	98-9667	1	Plug
19:17	98-7487	2	Plug
19:18	98-9379	3	Plug
19:19	98-9387	2	Pin-Pipe
19:20	98-9675	1	Plug
19:21	98-9416	1	Switch-Oil
24	99-3445	1	Gasket

Ref	Part No.	Qty.	Description
25	98-9444	1	Plug



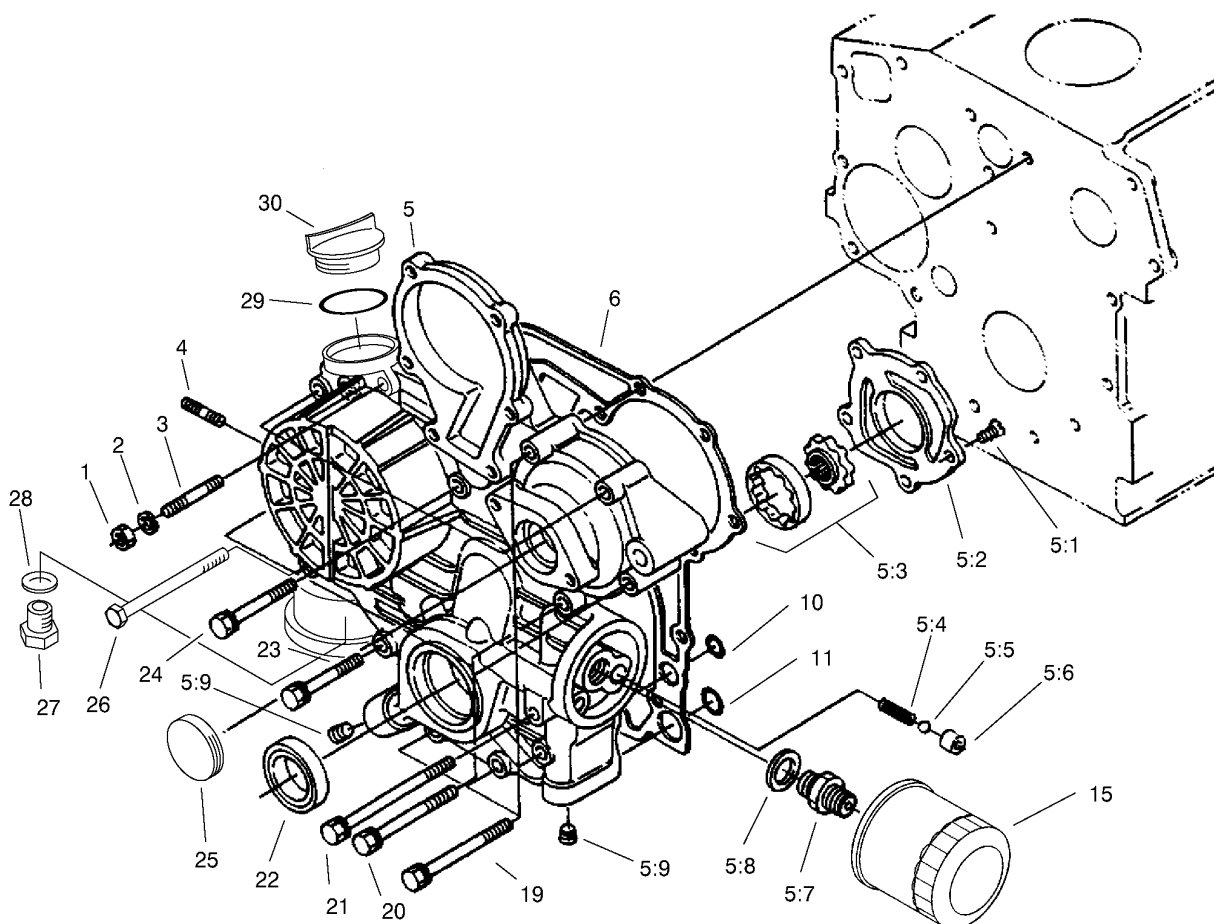
Oil Pan Assembly

Ref	Part No.	Qty.	Description				
1	98-7526	1	Bolt				
2	98-9538	1	Filter-Oil				
3	100-2205	1	O-Ring				
4	98-9646	1	Gasket-Pan, Oil				
5	98-9685	1	Drain-Oil				
6	98-9350	22	Bolt				
7	98-7524	2	Gasket				
8	98-9386	2	Plug				



Cylinder Head Assembly

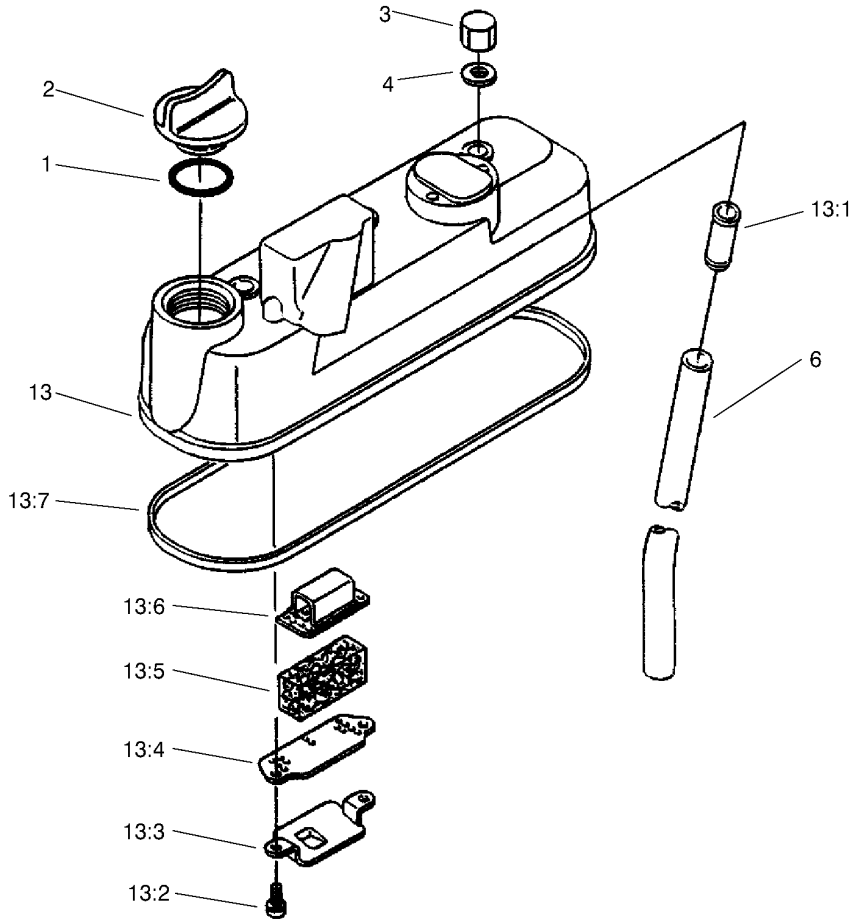
Ref	Part No.	Qty.	Description				
1	100-9195	2	Bolt				
2	98-7531	2	Hook-Engine				
3	98-9460	1	Cylinder Head ASM				
3:1	98-9499	3	Guide-Valve, Inlet				
3:2	98-9500	3	Guide-Valve, Exhaust				
3:3	98-9389	2	Cap-Sealing				
3:4	98-9395	1	Cap-Sealing				
3:5	98-7540	2	Cap-Sealing				
4	98-9479	12	Bolt-Head, Cylinder				
10	98-9613	1	Gasket-Head, Cylinder				
12	98-7509	1	O-Ring				
13	98-9647	2	Bolt-Head, Cylinder				



Gear Case and Oil Filter Assembly

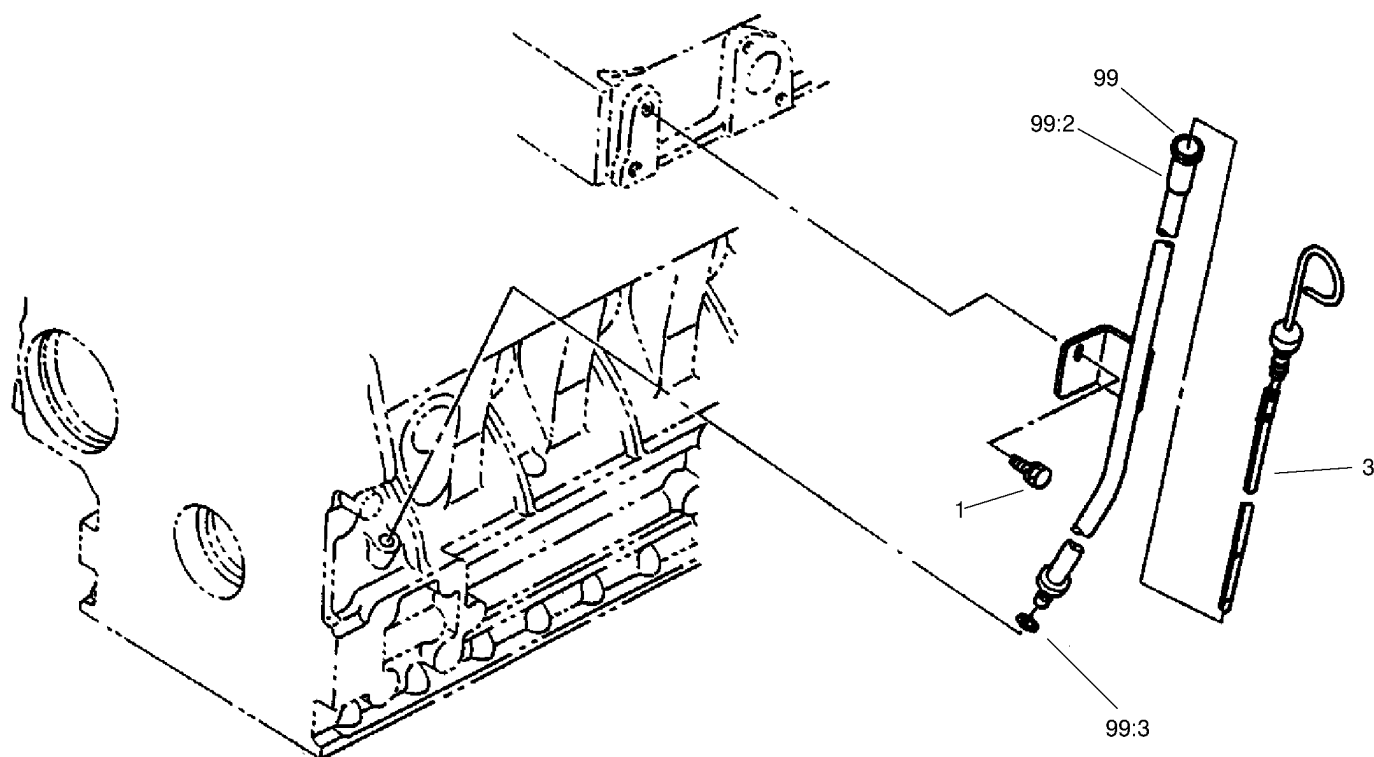
Ref	Part No.	Qty.	Description
1	98-7572	1	Nut
2	98-9367	1	Washer-Spring
3	98-9362	1	Stud
4	98-9363	2	Stud
5		1	Gear Case ASM
5:1	98-9592	5	Screw
5:2	105-3708	1	Cover-Pump, Oil
5:3	98-9540	1	Oil Pump Rotor ASM
5:4	98-9544	1	Spring
5:5	98-9380	1	Ball
5:6	98-9543	1	Seat-Valve
5:7	98-9388	1	Joint-Pipe
5:8	98-7562	1	Washer-Plain
5:9	98-9598	2	Plug
6	98-9633	1	Gasket-Case, Gear
10	98-9372	2	O-Ring
11	98-7547	2	O-Ring
15	98-9651	1	Filter-Oil
19	98-9356	2	Bolt
20	98-9355	4	Bolt
21	99-3510	2	Bolt
22	98-9482	1	Seal-Oil
23	98-9437	1	Bolt
24	98-7496	3	Bolt

Ref	Part No.	Qty.	Description
25	99-3515	1	Plug-Gearcase
26	99-3511	1	Bolt
27	99-3450	1	Plug
28	99-3451	1	Plug-Packing
29	99-3446	1	O-Ring
30	99-3449	1	Plug-Filler, Oil



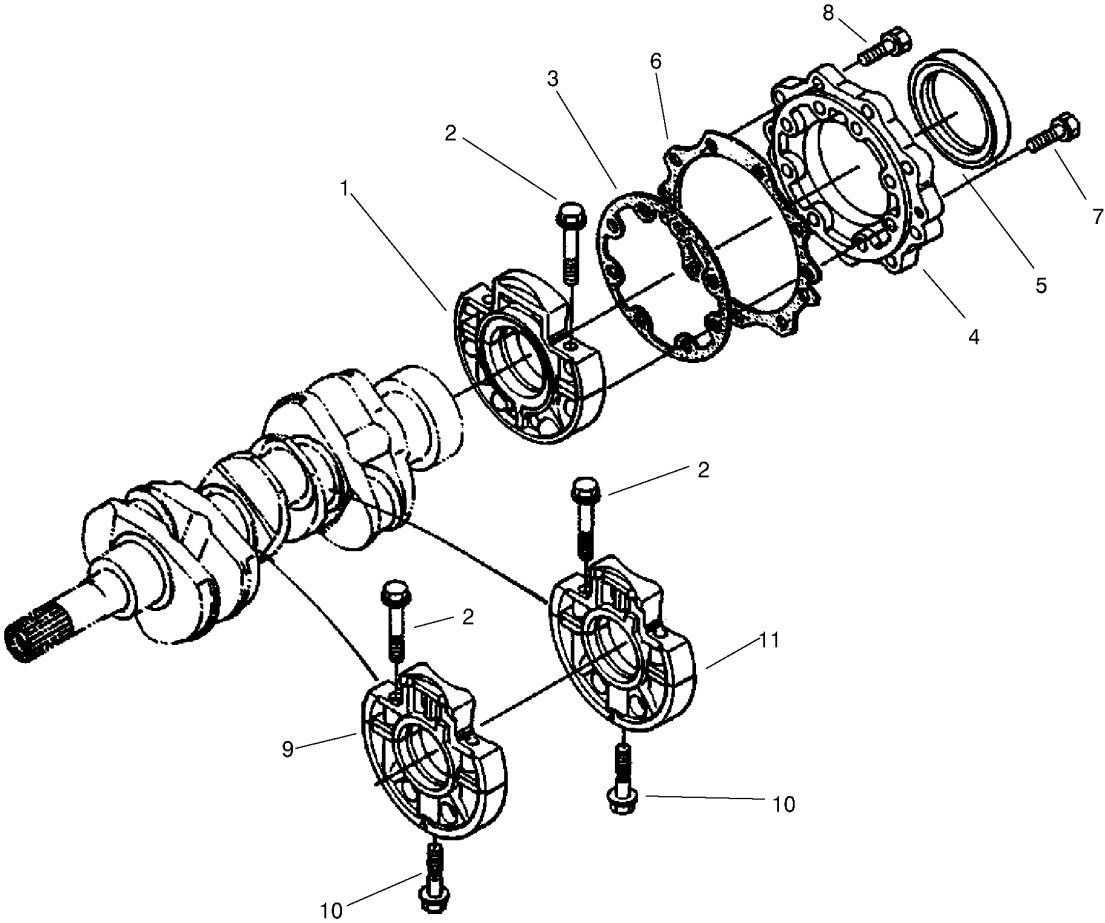
Head Cover Assembly

Ref	Part No.	Qty.	Description				
1	99-3446	1	O-Ring				
2	99-3449	1	Plug-Filler, Oil				
3	98-9455	3	Nut-Cap				
4	98-9454	3	Gasket				
6	98-9491	1	Pipe-Breather				
13	98-9614	1	Cylinder Head Cover ASM				
13:1	98-9492	1	Joint-Pipe, Breather				
13:2	98-9364	2	Screw-W/Washer				
13:3	98-9490	1	Shield-Oil, Breather				
13:4	98-9488	1	Plate-Element, Breather				
13:5	98-9493	1	Element-Breather				
13:6	98-9489	1	Plate-Element, Breather				
13:7	98-9615	1	Gasket-Cover, Head				



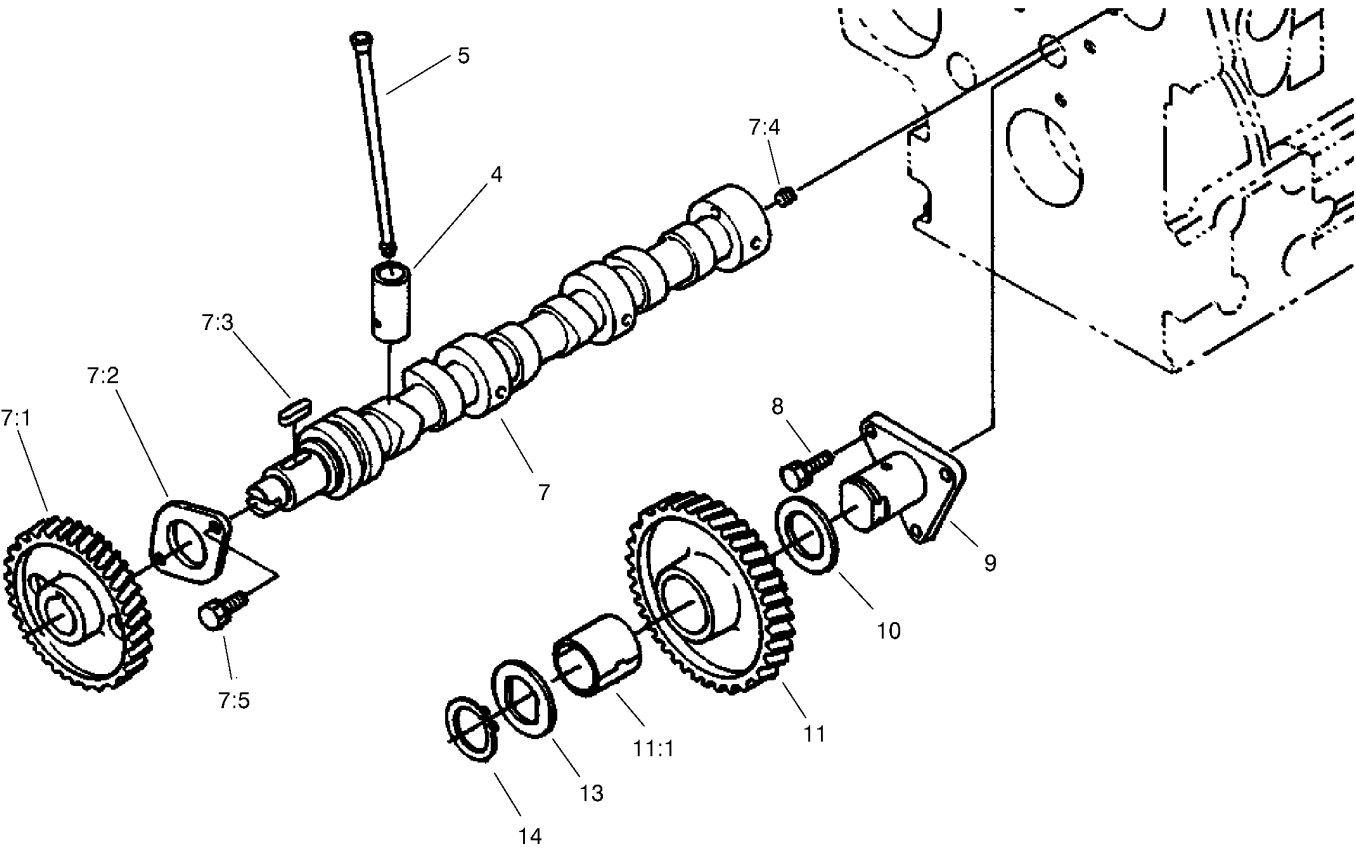
Dipstick and Guide Assembly

Ref	Part No.	Qty.	Description
1	98-7453	1	Bolt
3	98-9670	1	Gauge-Oil
99	98-9672	1	Oil Gauge Guide ASM
99:2	98-9671	1	Guide-Gauge, Oil
99:3	98-9374	1	O-Ring



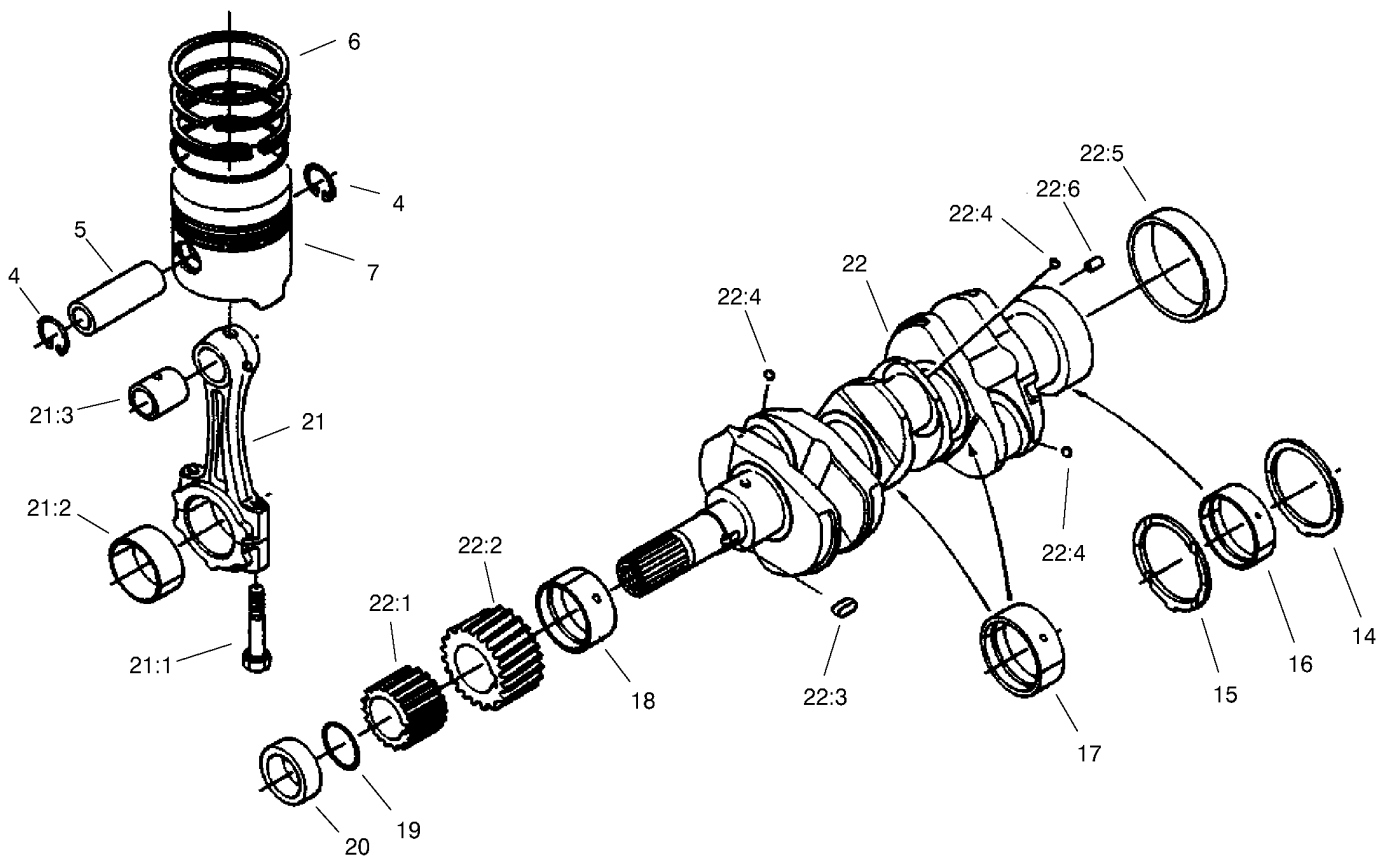
Main Bearing Case Assembly

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	98-9487	1	Cover-Case, Bearing				
5	98-9483	1	Seal-Oil				
6	98-9635	1	Gasket-Cover, Bearing Case				
7	98-9352	8	Bolt				
8	98-7568	9	Bolt				
9	98-9606	1	Main Bearing Case ASM				
10	98-9485	2	Bolt-Case, Bearing				
11	98-9607	1	Main Bearing Case ASM				



Camshaft Assembly

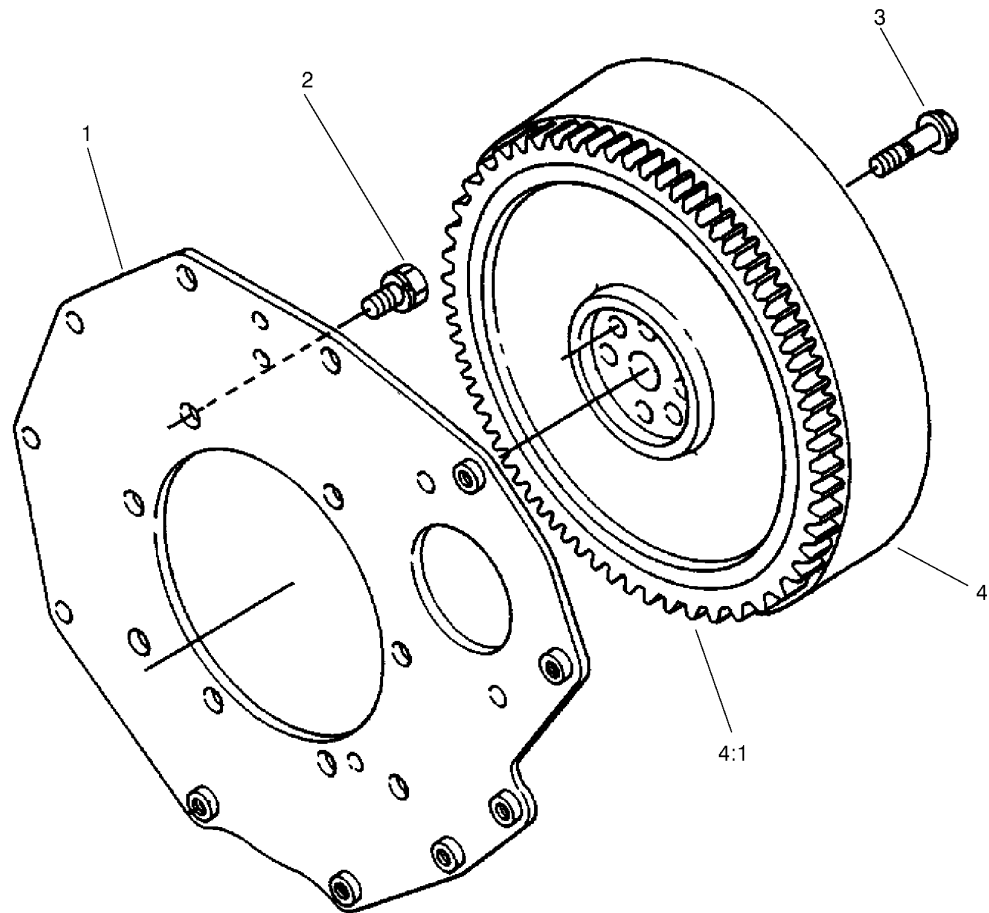
Ref	Part No.	Qty.	Description				
4	98-9616	6	Tappet				
5	98-9509	6	Rod-Push				
7	98-9617	1	Camshaft ASM				
7:1	98-9512	1	Gear-Cam				
7:2	98-9510	1	Stopper-Camshaft				
7:3	98-9378	1	Key-Feather				
7:4	98-7449	1	Screw-Set				
7:5	98-9351	2	Bolt				
8	98-7692	3	Bolt				
9	98-9533	1	Shaft-Gear, Idle				
10	98-9535	1	Collar-Gear, Idle				
11	98-9649	1	Idle Gear ASM				
11:1	98-9650	1	Bushing-Gear, Idle				
13	98-9536	1	Collar-Gear, Idle				
14	98-9534	1	Clip-Circular, Idle Gear				



Piston and Crankcase Assembly

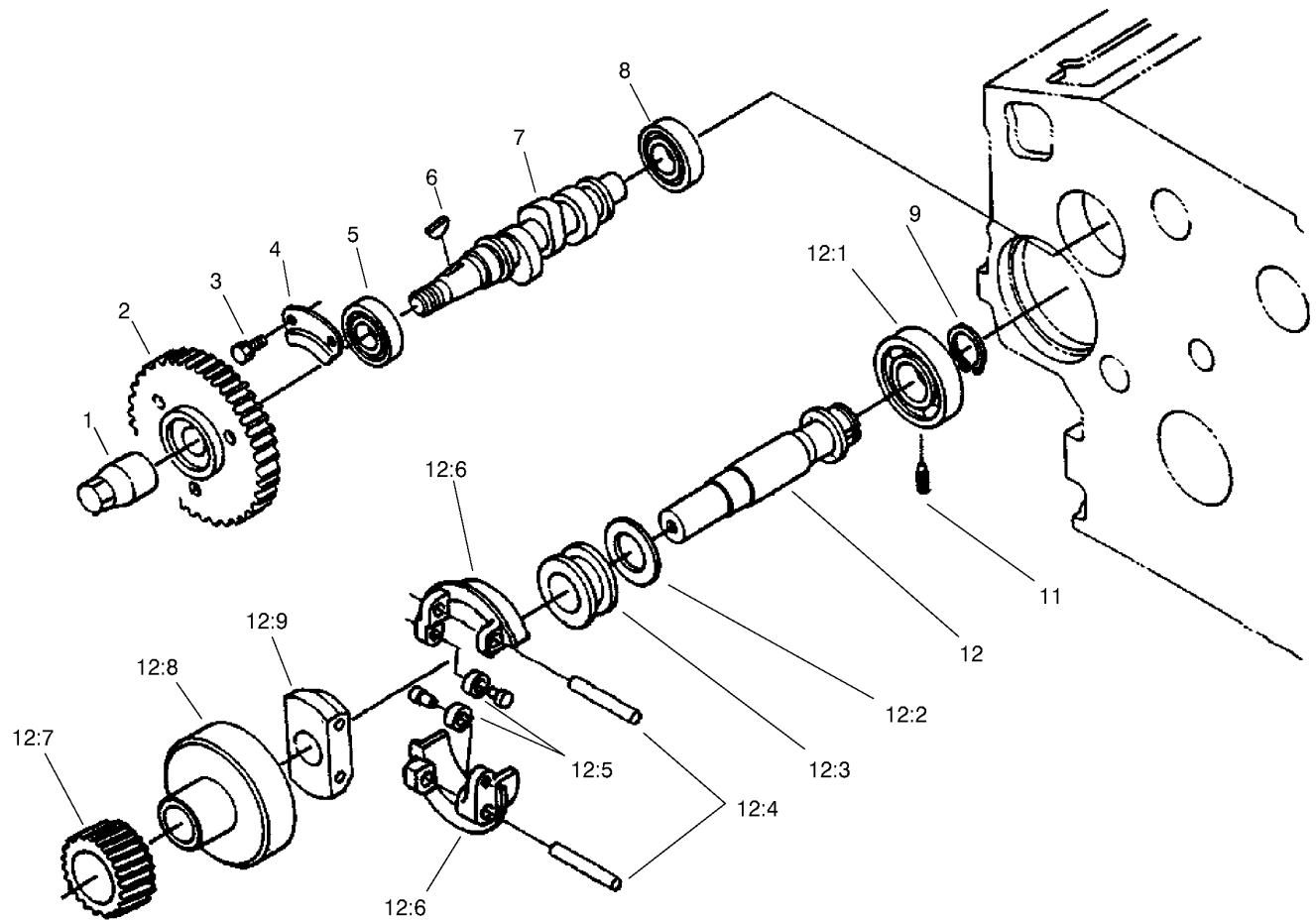
Ref	Part No.	Qty.	Description
4	98-9514	6	Clip-Circular, Piston Pin
5	98-9513	3	Pin-Piston
6	98-9618	3	Piston Ring ASM (STD)
6	98-9619	3	Piston Ring ASM (0.5Mm)
7	98-9469	3	Piston (STD)
7	98-9470	3	Piston (0.5Mm)
14	98-9413	2	Bearing-Thrust (STD)
14	98-9414	2	Bearing-Thrust (0.2Mm)
14	98-9415	2	Bearing-Thrust (0.4Mm)
15	98-9688	2	Bearing-Thrust (STD)
15	98-9689	2	Bearing-Thrust (0.2Mm)
15	98-9690	2	Bearing-Thrust (0.4Mm)
16	98-9526	1	Bearing-Main (0.2Mm)
16	98-9527	1	Bearing-Main (0.4Mm)
16	98-9556	1	Bearing-Main (STD)
17	98-9530	2	Bearing-Main (0.2Mm)
17	98-9531	2	Bearing-Main (0.4Mm)
17	98-9555	2	Bearing-Main (STD)
18	98-9528	1	Bearing-Main (0.2Mm)
18	98-9529	1	Bearing-Main (0.4Mm)
18	98-9554	1	Bearing-Main (STD)
19	98-9373	1	O-Ring
20	98-9521	1	Collar-Crankshaft
21	98-9516	3	Connecting Rod ASM

Ref	Part No.	Qty.	Description
21:1	98-9517	6	Bolt-Rod, Connecting
21:2	98-9518	3	Metal-Crankpin (STD)
21:2	98-9519	3	Bearing-Rod (0.2Mm)
21:2	98-9520	3	Bearing-Rod (0.4Mm)
21:3	98-9515	3	Bushing-Pin, Piston
22	98-9642	1	Crankshaft ASM
22:1	98-9542	1	Gear-Drive, Oil Pump
22:2	98-9532	1	Gear-Crankshaft
22:3	98-9666	1	Key
22:4	98-7473	3	Ball
22:5	98-9522	1	Sleeve-Crankshaft
22:6	98-9375	1	Pin-Straight



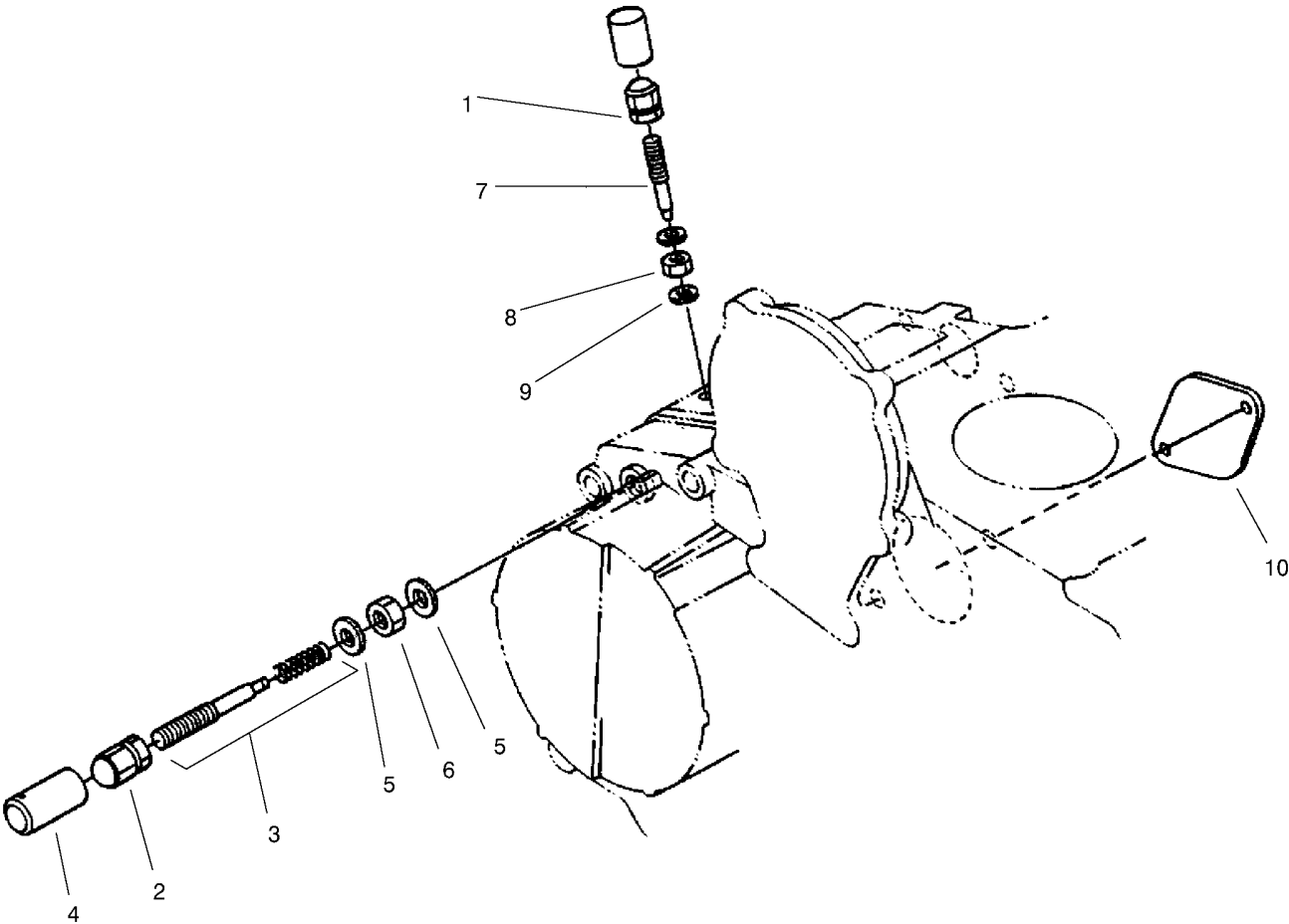
Flywheel Assembly

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				



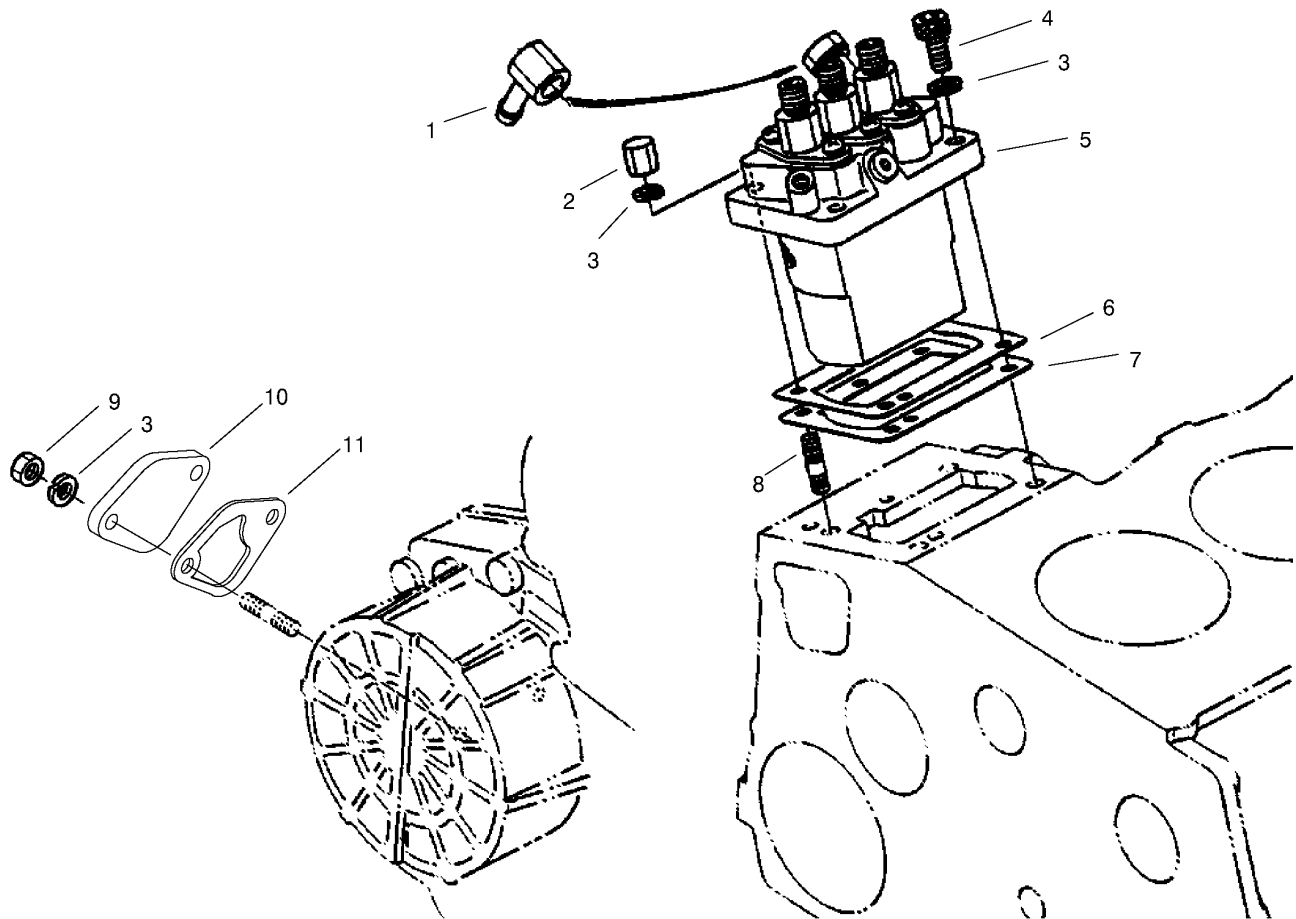
Fuel Camshaft Assembly

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



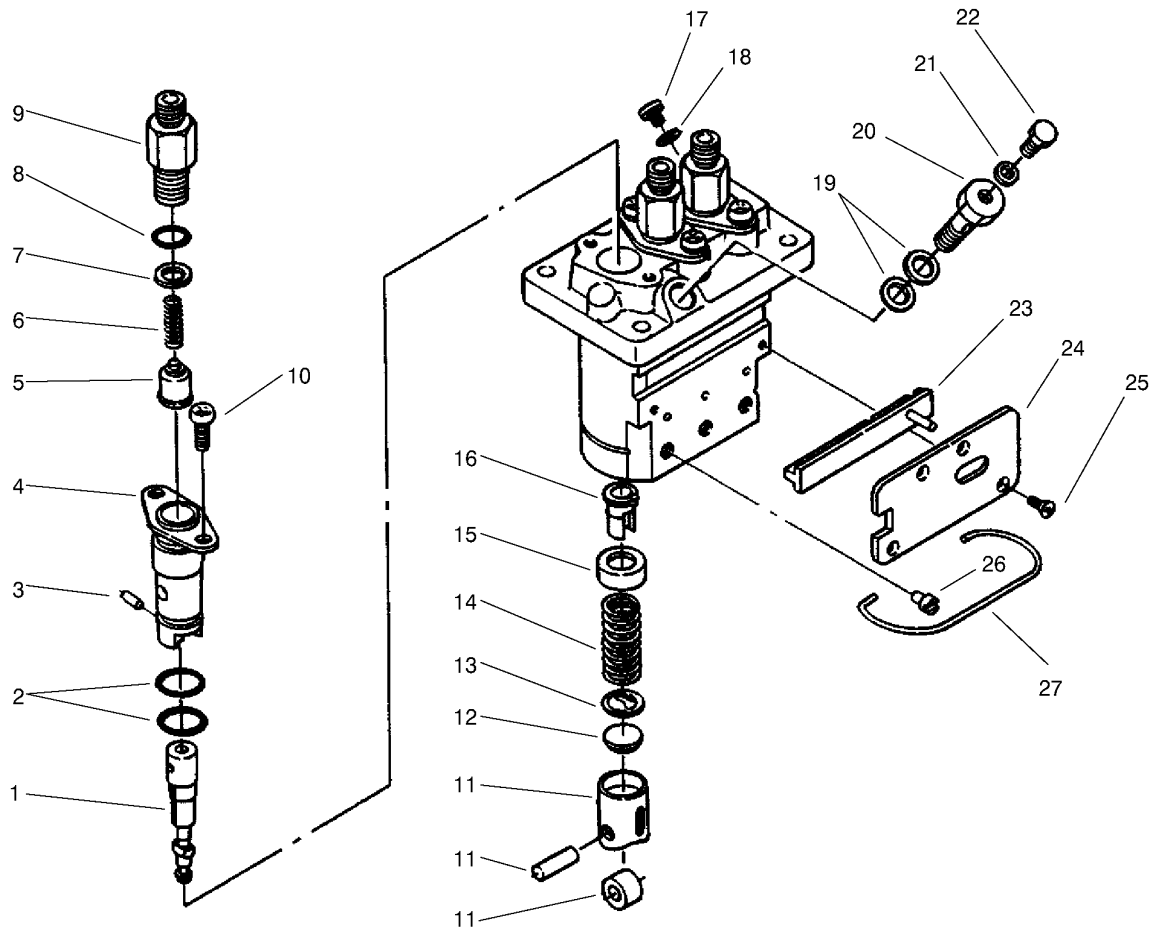
Engine Stop Lever Assembly

Ref	Part No.	Qty.	Description				
1	99-8387	1	Nut-Cap				
2	98-9441	1	Nut-Cap				
3	99-3458	1	Adjusting Bolt ASM				
4	98-7656	1	Cap				
5	98-7654	3	Gasket				
6	98-9439	1	Nut				
7	98-9557	1	Bolt-Adjusting				
8	99-3512	1	Nut				
9	99-3466	1	Gasket				
10	98-9640	1	Cover-Pump				



Injection Pump Installation Assembly

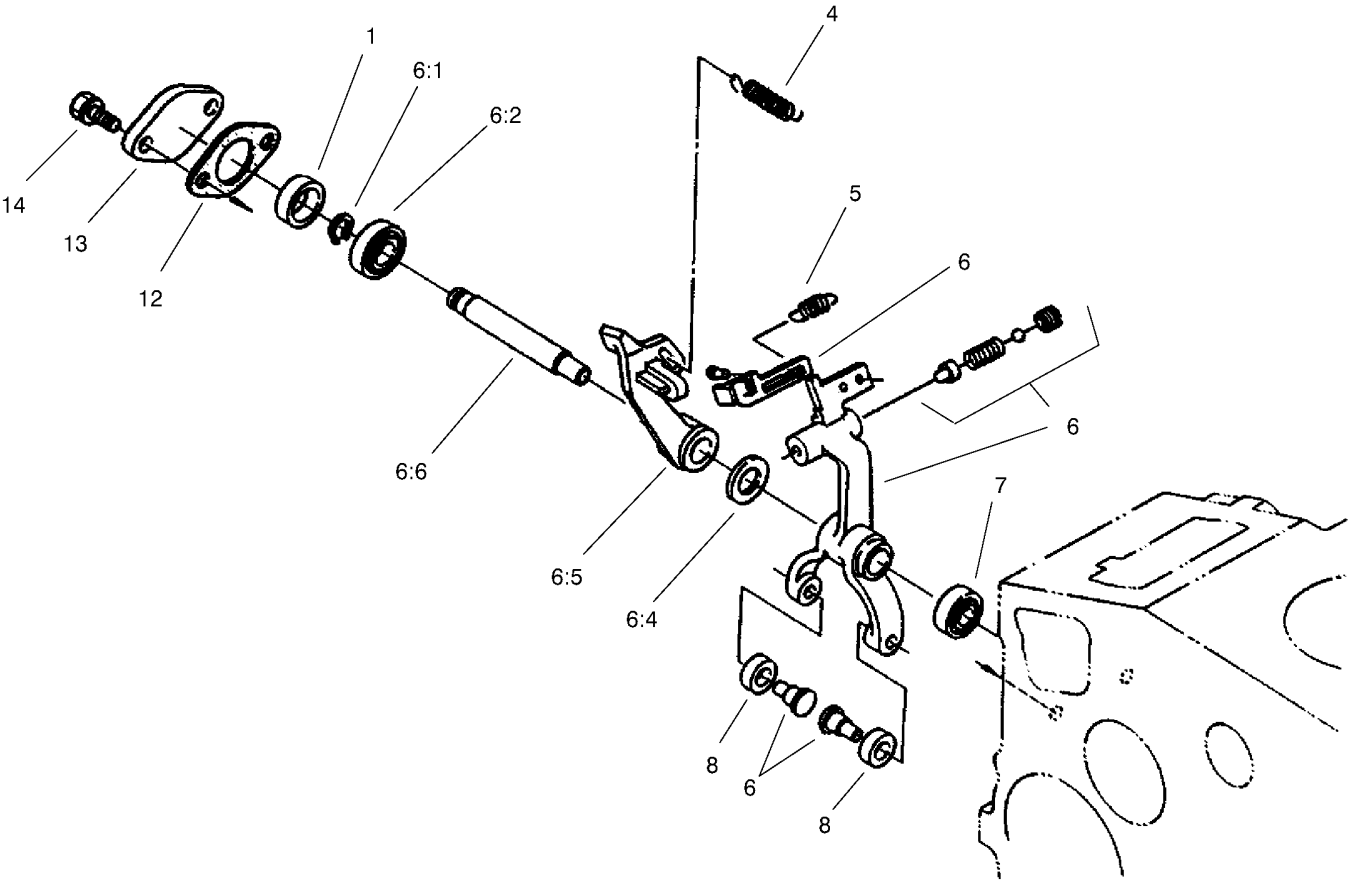
Ref	Part No.	Qty.	Description				
1	98-9596	1	Joint-Eye				
2	98-9440	2	Nut-Cap				
3	98-9367	6	Washer-Spring				
4	98-9361	2	Bolt-HSH				
5	98-9643	1	Injection Pump ASM				
6	98-9457	1	Shim-Injection (0.25Mm)				
6	98-9456	1	Shim-Injection (0.20Mm)				
7	98-9458	1	Shim-Injection (0.30Mm)				
8	98-9438	2	Stud				
9	98-7572	2	Nut				
10	99-3514	1	Cover				
11	98-9636	1	Gasket-Pump, Fuel				



Injection Pump Assembly No. 98-9643

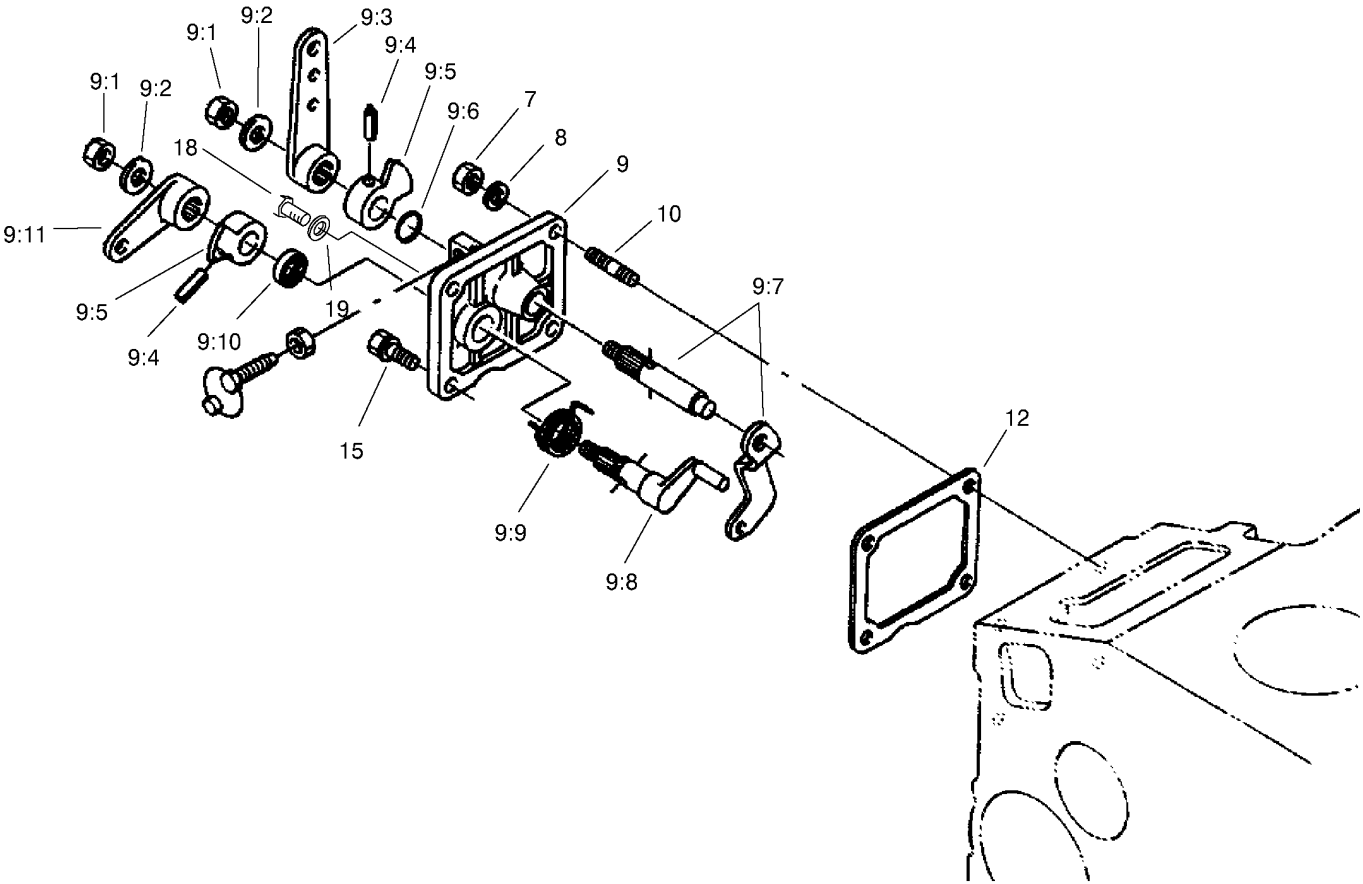
Ref	Part No.	Qty.	Description
1	98-9462	3	Element-Pump
2	98-9423	6	O-Ring
3	98-9443	3	Pin-Joint
4	98-9434	3	Flange-Sleeve
5	98-9421	3	Valve-Delivery
6	98-9424	3	Spring-Valve, Delivery
7	98-9425	3	Gasket-Valve, Delivery
8	98-9447	3	O-Ring
9	98-9652	3	Holder-Valve, Delivery
10	98-9452	6	Screw
11	98-9422	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



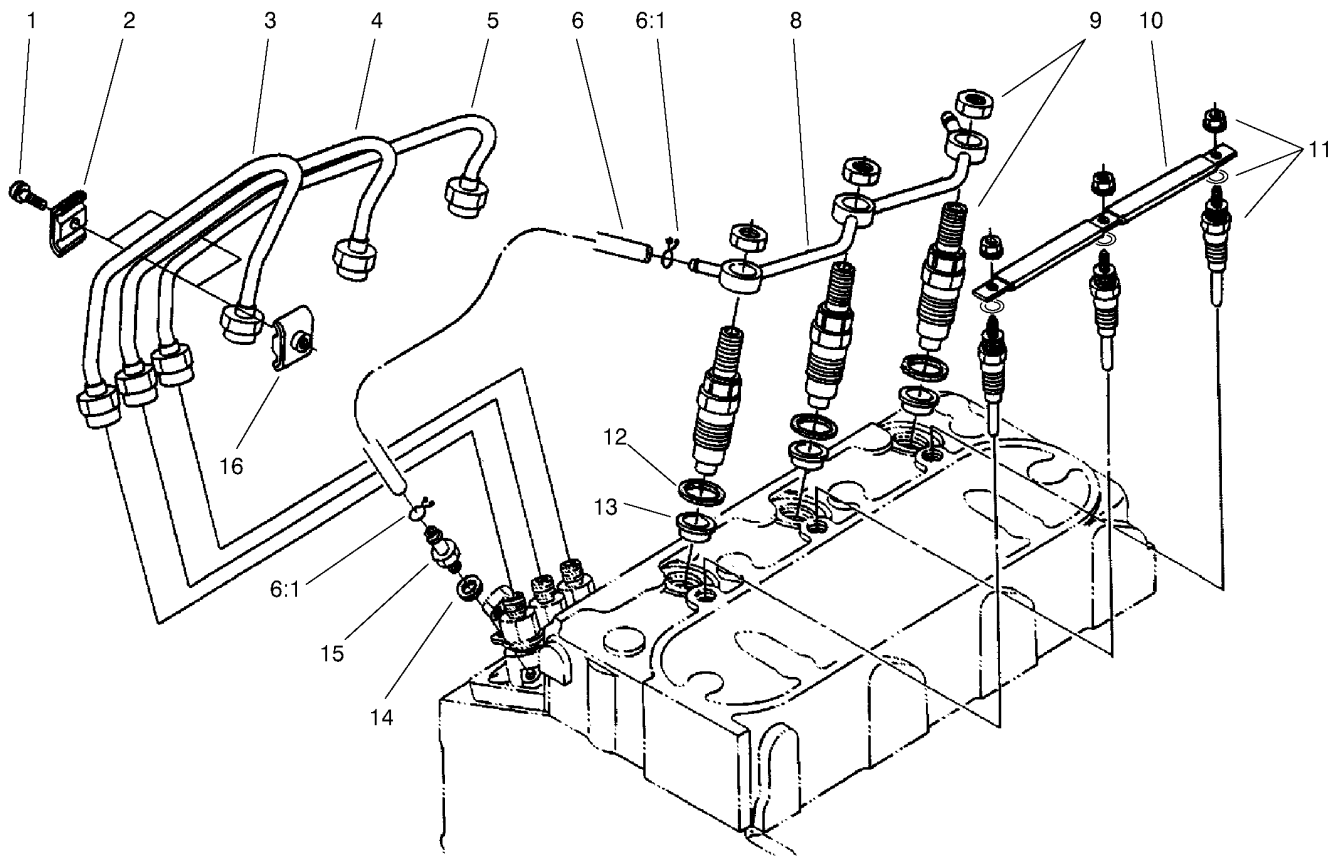
Governor Assembly

Ref	Part No.	Qty.	Description				
1	98-9567	1	Collar				
4	99-3459	1	Spring, Governor				
5	98-9645	1	Spring-Start				
6	99-3452	1	Fork Lever ASM				
6:1	98-9369	1	Clip-Circular, External				
6:2	98-9570	1	Bearing-Miniaturize				
6:4	98-9593	1	Washer-Plain				
6:5	98-9659	1	Lever-Fork				
6:6	98-9566	1	Shaft-Lever, Fork				
7	98-9571	1	Bearing-Miniaturize				
8	98-9692	2	Roller				
12	98-9682	1	Gasket				
13	98-9569	1	Cover-Shaft, Fork Lever				
14	98-9351	2	Bolt				



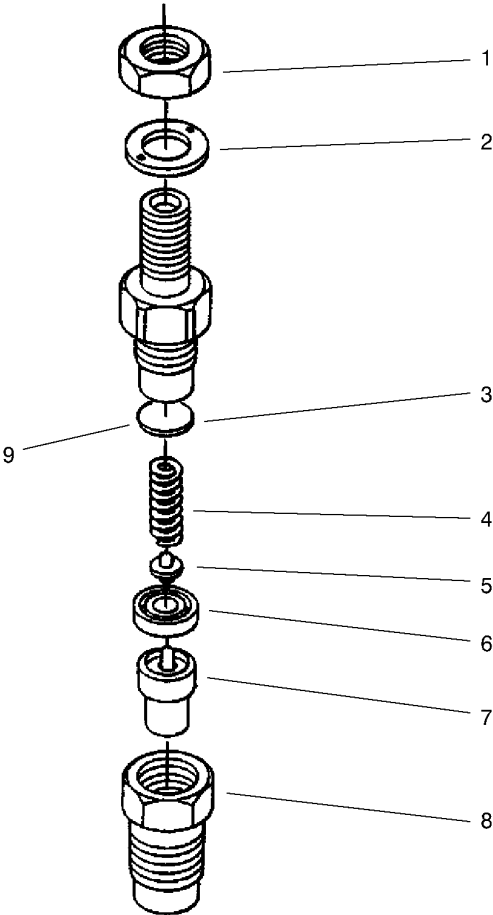
Speed Control Plate Assembly

Ref	Part No.	Qty.	Description				
7	98-7572	2	Nut				
8	98-9367	2	Washer-Spring				
9	98-9661	1	Control Plate ASM				
9:1	98-9589	2	Nut				
9:2	98-9594	2	Washer-Plain				
9:3	98-9662	1	Lever-Control, Speed				
9:4	98-7602	2	Pin-Spring				
9:5	98-9572	2	Lever-Control, Speed				
9:6	98-9371	1	O-Ring				
9:7	98-9658	1	Governor Lever ASM				
9:8	98-9664	1	Shaft-Lever, Stop				
9:9	98-9472	1	Spring-Return				
9:10	98-7601	1	Seal-Oil				
9:11	98-9663	1	Lever-Stop, Engine				
10	98-9362	2	Stud				
12	98-9637	1	Gasket				
15	98-7692	1	Bolt				
18	99-8348	1	Bolt				
19	98-7654	1	Gasket				



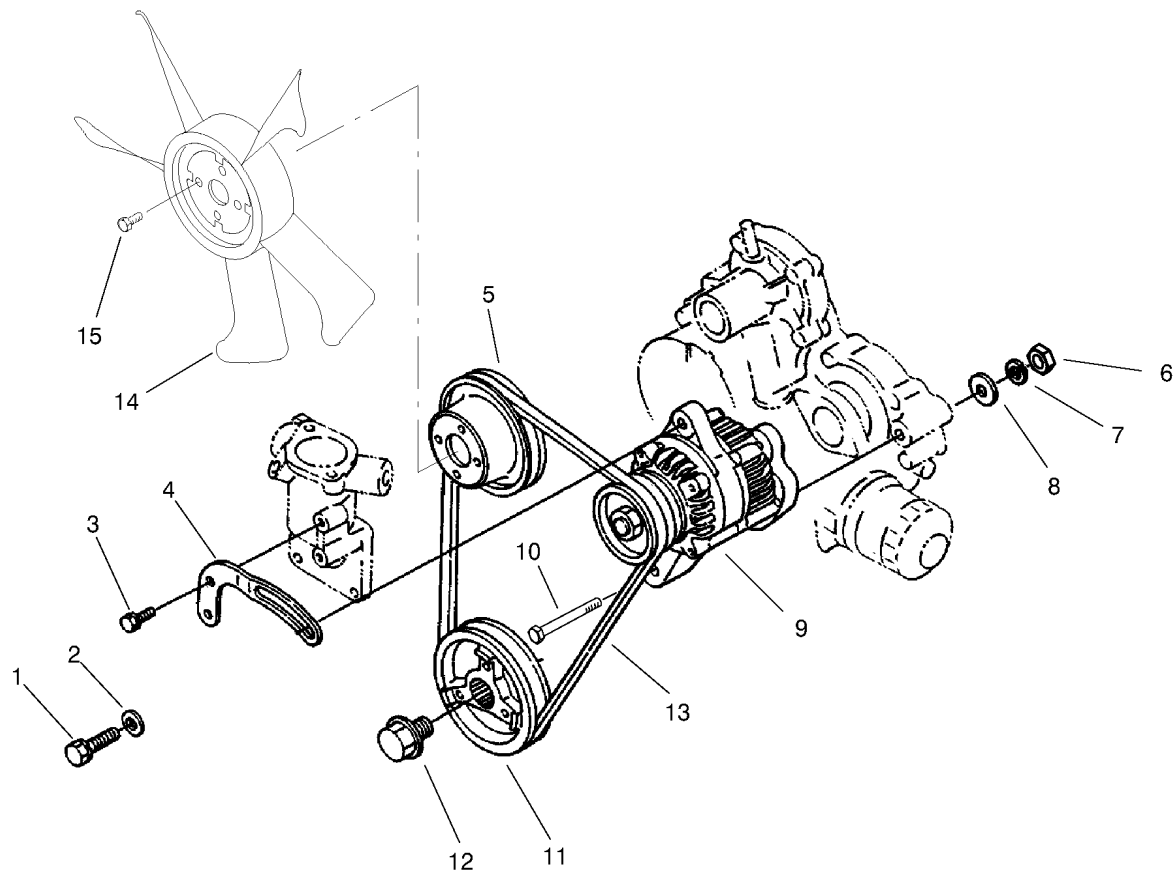
Nozzle Holder and Glow Plug Assembly

Ref	Part No.	Qty.	Description				
1	98-7684	2	Screw W/Washer				
2	98-7683	2	Clamp-Pipe				
3	99-3460	1	Pipe-Injection				
4	98-9654	1	Pipe-Injection				
5	98-9655	1	Pipe-Injection				
6	98-9420	1	Over Flow Pipe ASM				
6:1	98-7671	1	Clip-Pipe				
8	98-9620	1	Over Flow Pipe ASM				
9	98-9468	3	Nozzle Holder ASM				
10	98-9631	1	Cord-Plug, Glow				
11	98-9695	3	Plug-Glow				
12	98-7676	3	Gasket				
13	98-9694	3	Seat-Heat				
14	98-7654	1	Gasket				
15	98-9431	1	Screw-Bleeder				
16	98-7682	2	Clamp-Pipe				



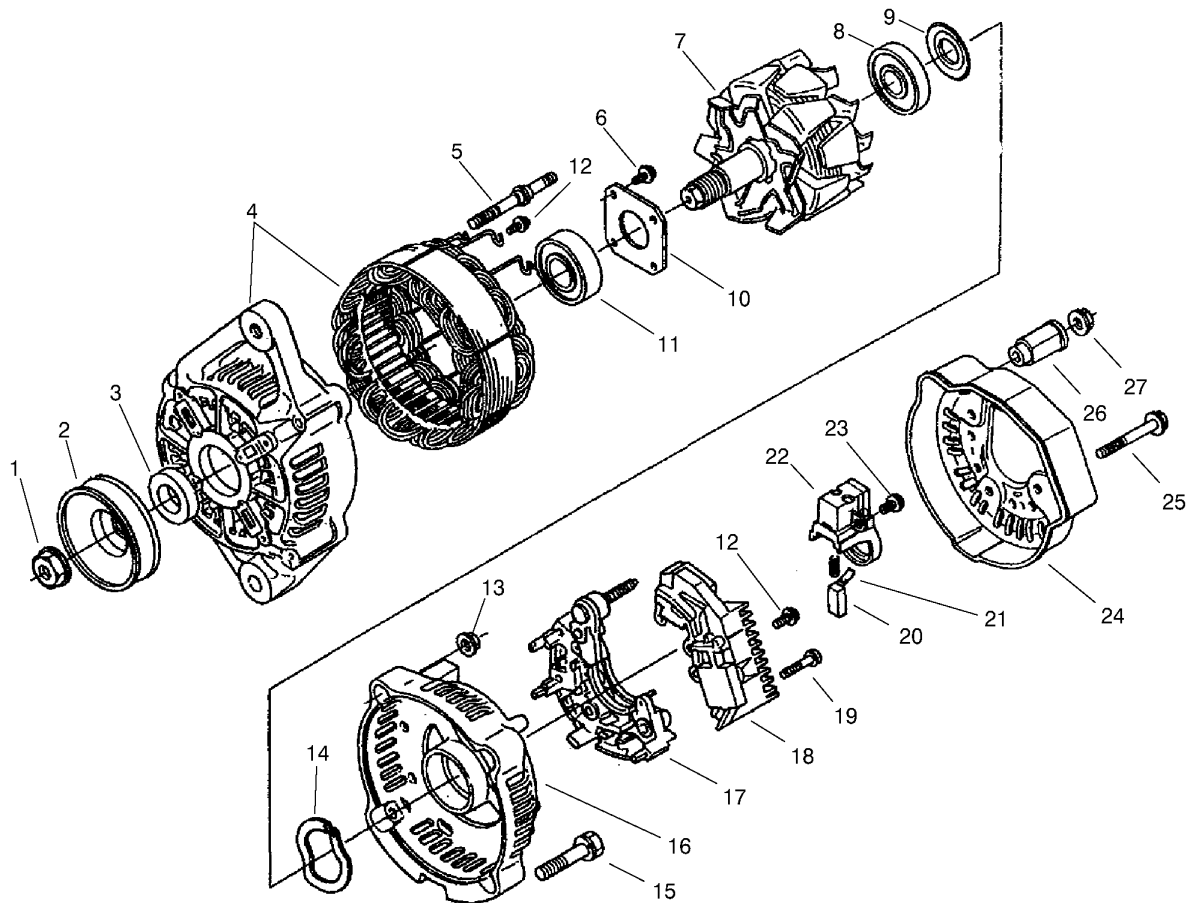
Nozzle Holder Assembly

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	99-8316	3	Washer-Adjust (0.54Mm)				
9	99-8317	3	Washer-Adjust (0.56Mm)				
9	99-8314	3	Washer-Adjust (0.50Mm)				
9	99-8319	3	Washer-Adjust (0.80Mm)				
9	99-8318	3	Washer-Adjust (0.58Mm)				
9	99-8315	3	Washer-Adjust (0.52Mm)				
9	99-8313	3	Washer-Adjust (0.40Mm)				
9	99-8312	3	Washer-Adjust (0.30Mm)				
9	99-8311	3	Washer-Adjust (0.20Mm)				
9	99-8310	3	Washer-Adjust (0.10Mm)				
9	99-8309	3	Adjusting Washer ASM				



Alternator and Pulley Assembly

Ref	Part No.	Qty.	Description				
1	98-7697	1	Bolt				
2	100-9233	1	Washer-Plain				
3	98-7692	1	Bolt				
4	98-9573	1	Stay-Dynamo				
5	99-3453	1	Pulley-Fan				
6	98-7737	1	Nut				
7	98-9368	1	Washer-Spring				
8	98-9366	1	Washer-Plain				
9	98-9474	1	Alternator ASM				
10	98-9360	1	Bolt				
11	99-3456	1	Pulley-Drive, Fan				
12	98-9585	1	Bolt				
13	99-3467	1	V-Belt				
14	99-3461	1	Fan				
15	99-8363	4	Bolt-Flange				

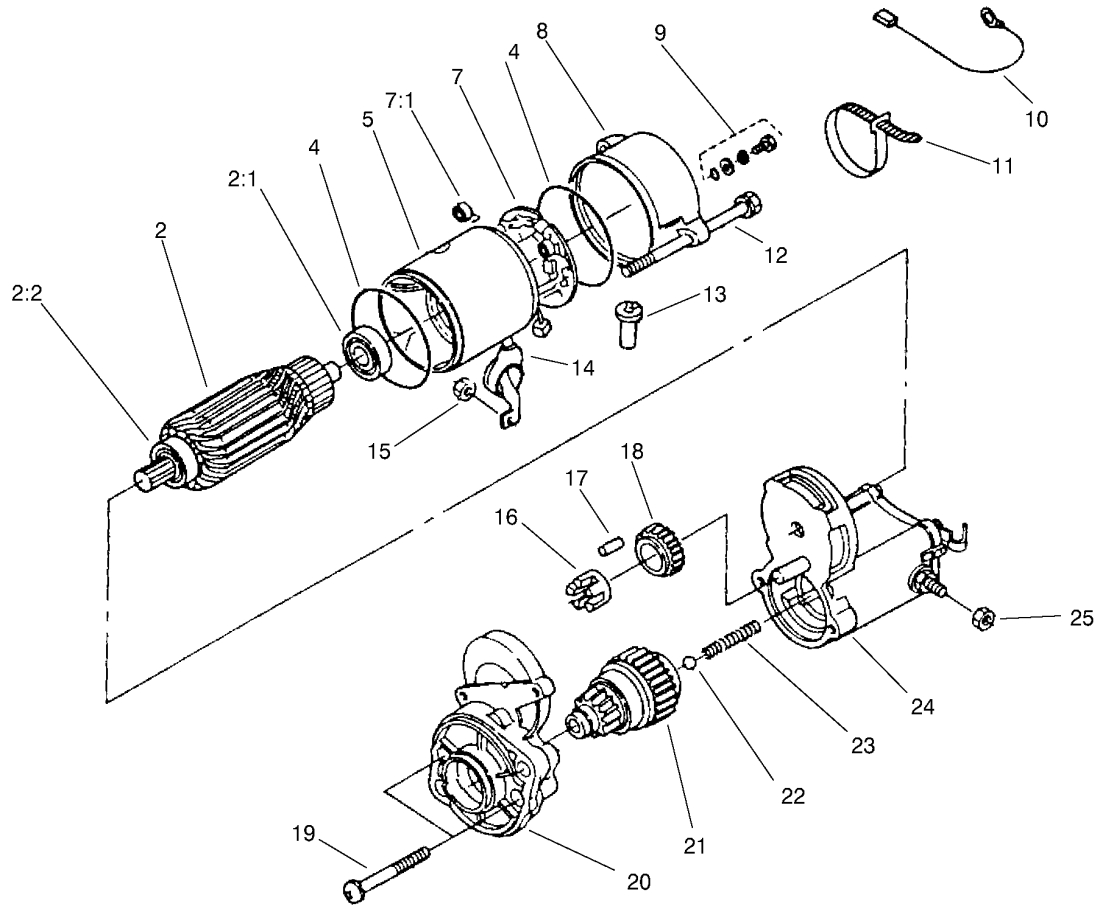


Alternator Assembly

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	98-7715	1	Plate-Retainer
11	98-7718	1	Bearing-Ball
12	98-7727	6	Screw-Head, Round
13	98-7730	2	Nut
14	98-7713	1	Washer-Thrust
15	98-7731	2	Bolt
16	98-7719	1	Frame-End
17	98-7721	1	Rectifier ASM
18	98-7733	1	Regulator ASM
19	98-7726	2	Screw-Head, Round
20	98-7724	2	Brush
21	98-7725	2	Spring-Brush
22	98-7723	1	Holder-Brush
23	98-7728	1	Screw-Head, Round
24	98-7720	1	Cover-End

Ref	Part No.	Qty.	Description
25	98-7729	3	Bolt
26	98-7722	1	Bushing-Insulation
27	98-7732	1	Nut

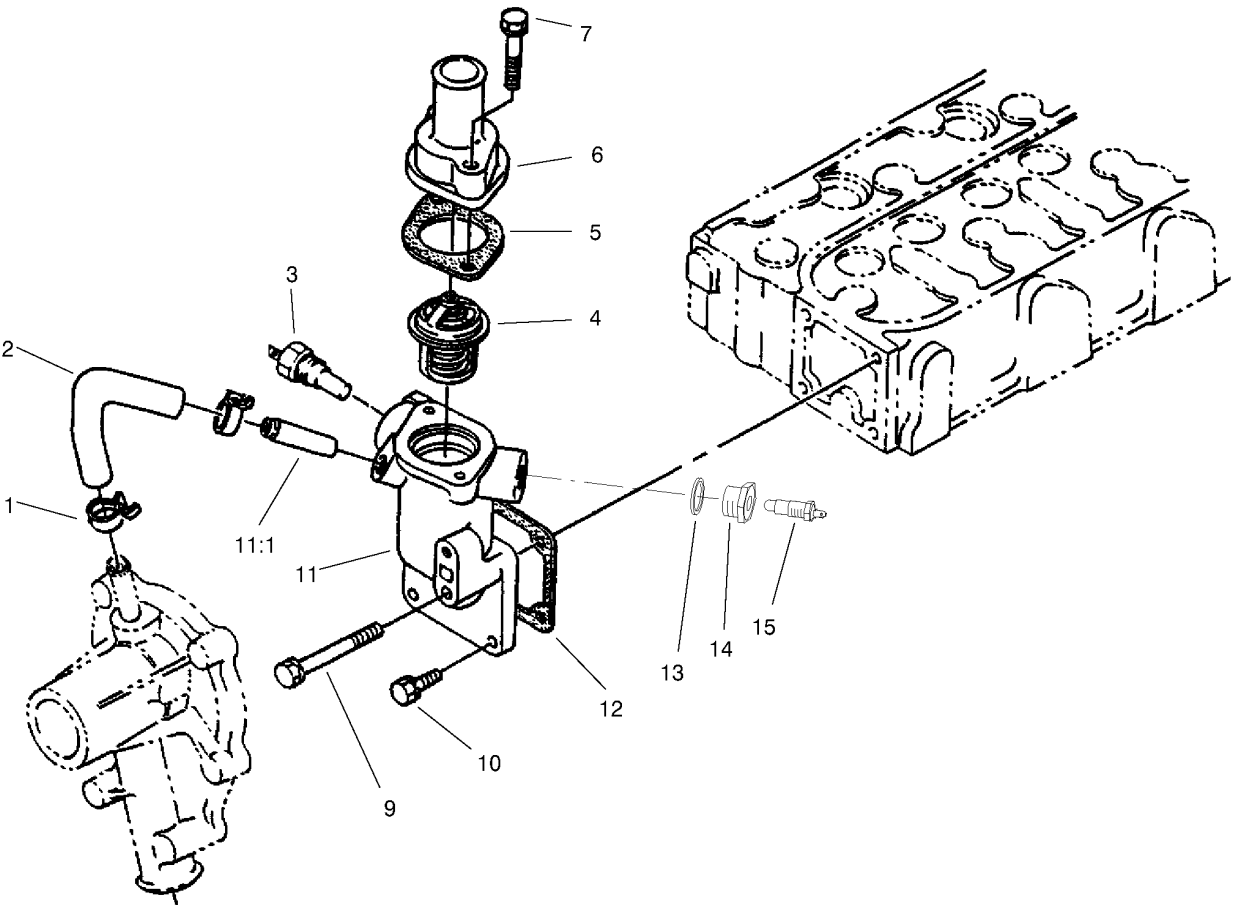
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Starter Assembly

Ref	Part No.	Qty.	Description
2	98-7742	1	Armature ASM
2:1	98-7743	1	Bearing
2:2	98-7744	1	Bearing
4	98-7757	2	O-Ring
5	98-7741	1	Yoke ASM
7	98-7749	1	Brush Holder ASM
7:1	98-7750	4	Spring-Brush
8	98-7748	1	Frame-End
9	98-7758	2	Bolt ASM
10	98-9711	1	Cord-Solenoid, Stop
11	98-9712	1	Band-Cover
12	98-9549	2	Bolt
13	98-7759	1	Pipe-Drain
14	99-8375	1	Cover
15	99-8371	1	Nut-Hex
16	98-7752	1	Retainer
17	98-7753	5	Roller
18	98-7751	1	Gear
19	98-7756	2	Bolt
20	99-8374	1	Frame-End, Drive
21	99-8373	1	Clutch-Running, Over
22	98-7755	1	Ball
23	98-7754	1	Spring
24	99-8372	1	Magnetic Switch ASM

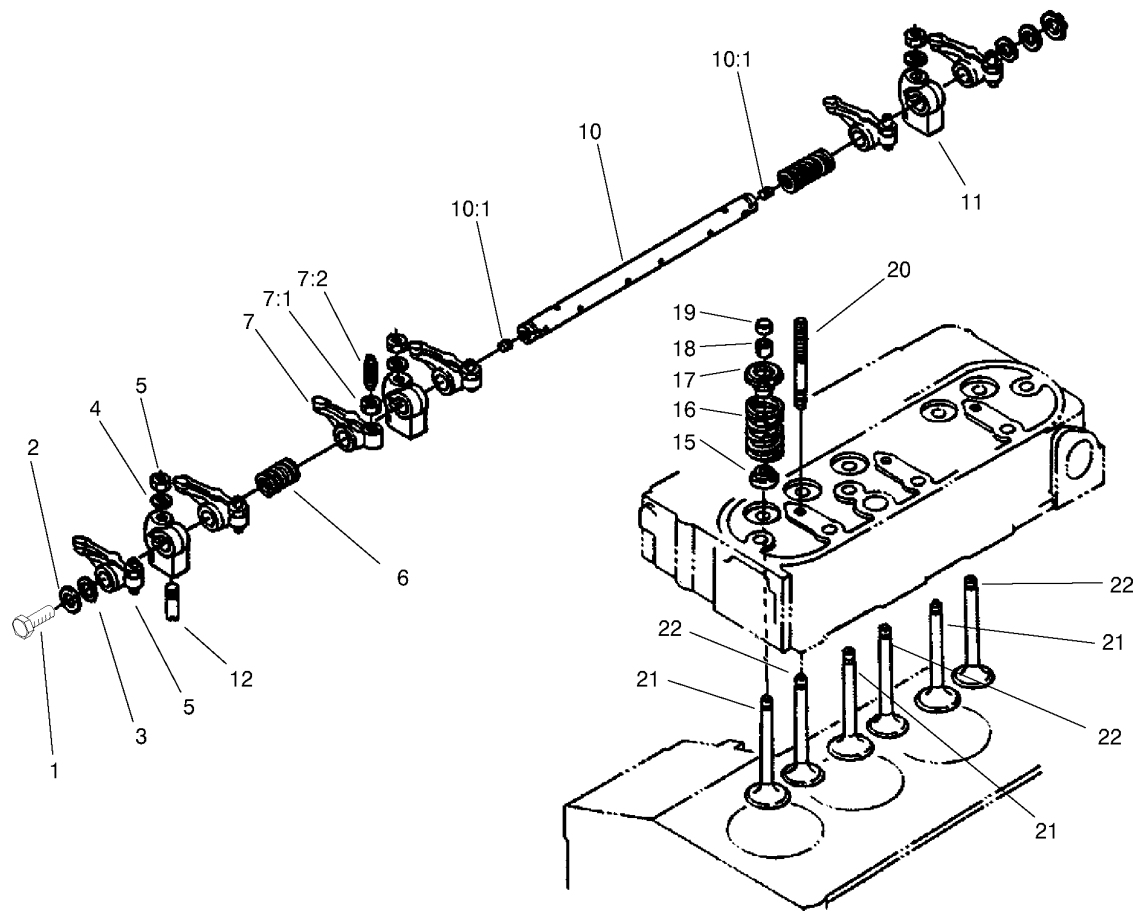
Ref	Part No.	Qty.	Description
25	99-8376	1	Nut-Hex



Water Flange and Thermostat Assembly

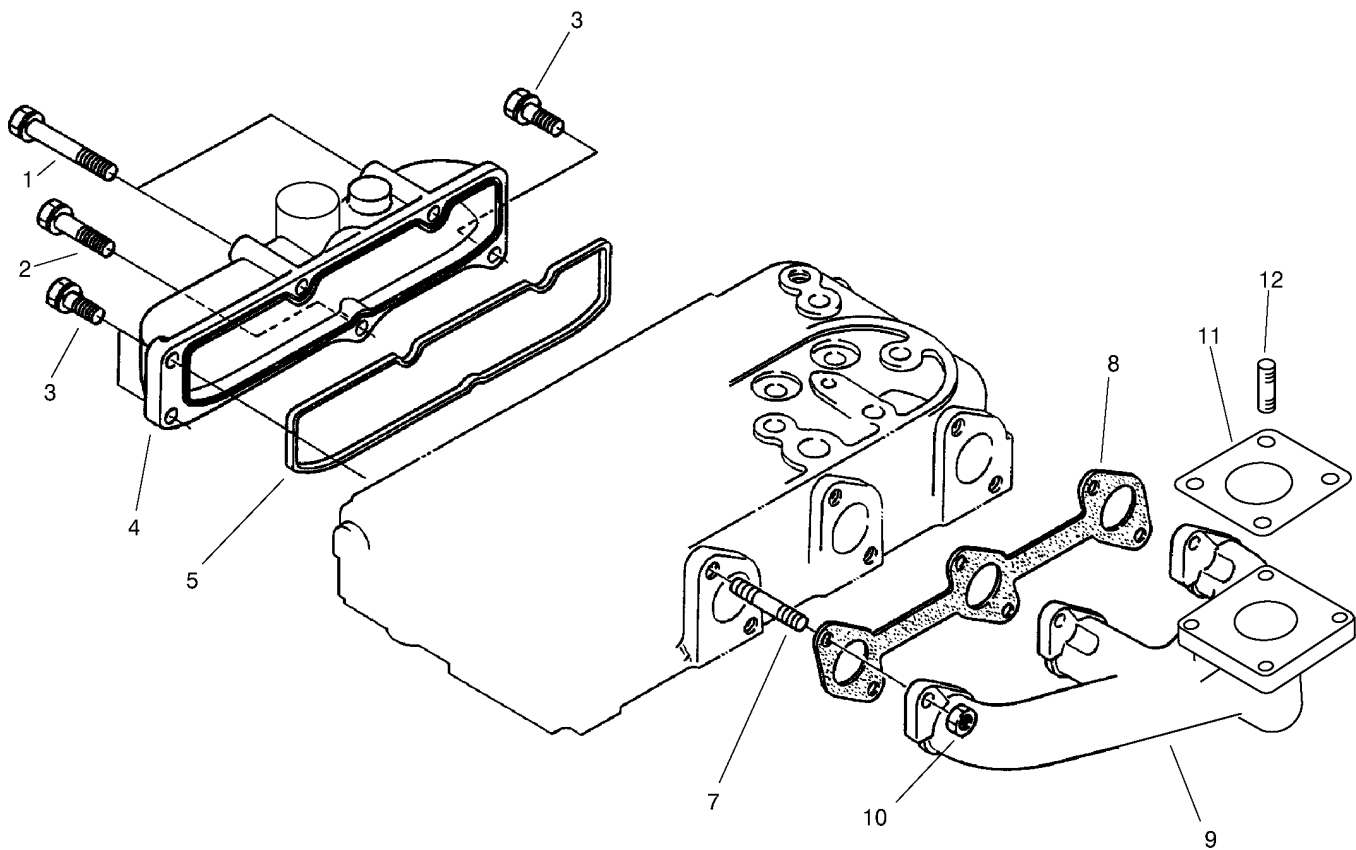
Ref	Part No.	Qty.	Description				
1	98-9579	2	Band-Pipe				
2	98-9578	1	Pipe-Return, Water				
3	98-9719	1	Thermoswitch				
4	98-7778	1	Thermostat ASM				
5	98-7776	1	Gasket				
6	98-9471	1	Cover-Thermostat				
7	98-7777	2	Bolt				
9	98-9356	1	Bolt				
10	98-7692	3	Bolt				
11	98-9713	1	Water Flange ASM				
11:1	98-9580	1	Pipe-Return, Water				
12	98-9638	1	Gasket-Flange, Water				
13	99-3583	1	Packing				
14	99-3581	1	Adapter				
15	99-3582	1	Thermoswitch				

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Valve and Rocker Arm Assembly

Ref	Part No.	Qty.	Description				
1	100-1762	2	Bolt				
2	100-1927	2	Washer-Plain				
3	98-9507	2	Washer-Shaft, R-Arm				
4	98-9385	3	Washer-Flat				
5	98-9393	3	Nut				
6	98-9504	2	Spring-Arm, Rocker				
7	98-9501	6	Rocker Arm ASM				
7:1	98-9503	6	Nut				
7:2	98-9502	6	Screw-Adjusting				
10	98-9612	1	R-Arm Shaft ASM				
10:1	98-9365	2	Screw-Set				
11	98-9505	3	Bracket-Arm, Rocker				
12	98-7602	1	Pin-Spring				
15	99-8385	6	Seat-Stem, Valve				
16	98-9648	6	Spring,Valve				
17	98-9498	6	Retainer-Valve				
18	98-9390	6	Collet-Set, Valve Spring				
19	98-9497	6	Cap-Valve				
20	98-9506	3	Stud				
21	98-9494	3	Valve-Inlet				
22	98-9495	3	Valve-Exhaust				



Exhaust Manifold and Gasket Assembly

Ref	Part No.	Qty.	Description				
1	100-2201	2	Bolt				
2	98-9353	1	Bolt				
3	98-7605	3	Bolt				
4	99-3457	1	Manifold-Inlet				
5	98-9609	1	Gasket				
7	98-9588	6	Stud				
8	98-9610	1	Gasket				
9	98-9718	1	Manifold-Exhaust				
10	98-9665	6	Nut				
11	98-9611	1	Gasket				
12	98-7769	4	Stud				

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