



Groundsmaster® 3500-D

Model No. 30821 - 210000701 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

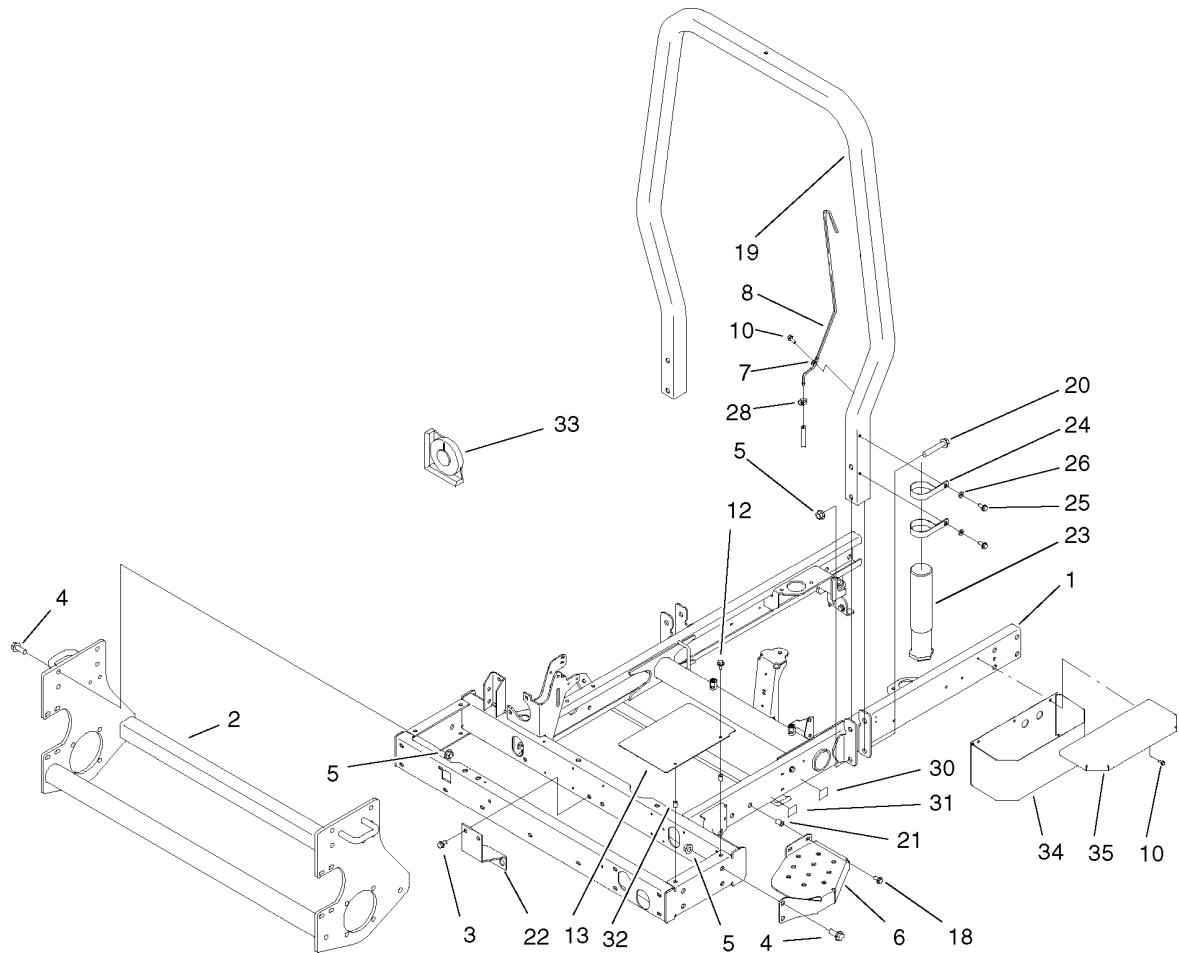
Footnotes

- ❶

Not serviced separately
- ❷

* Not Illustrated
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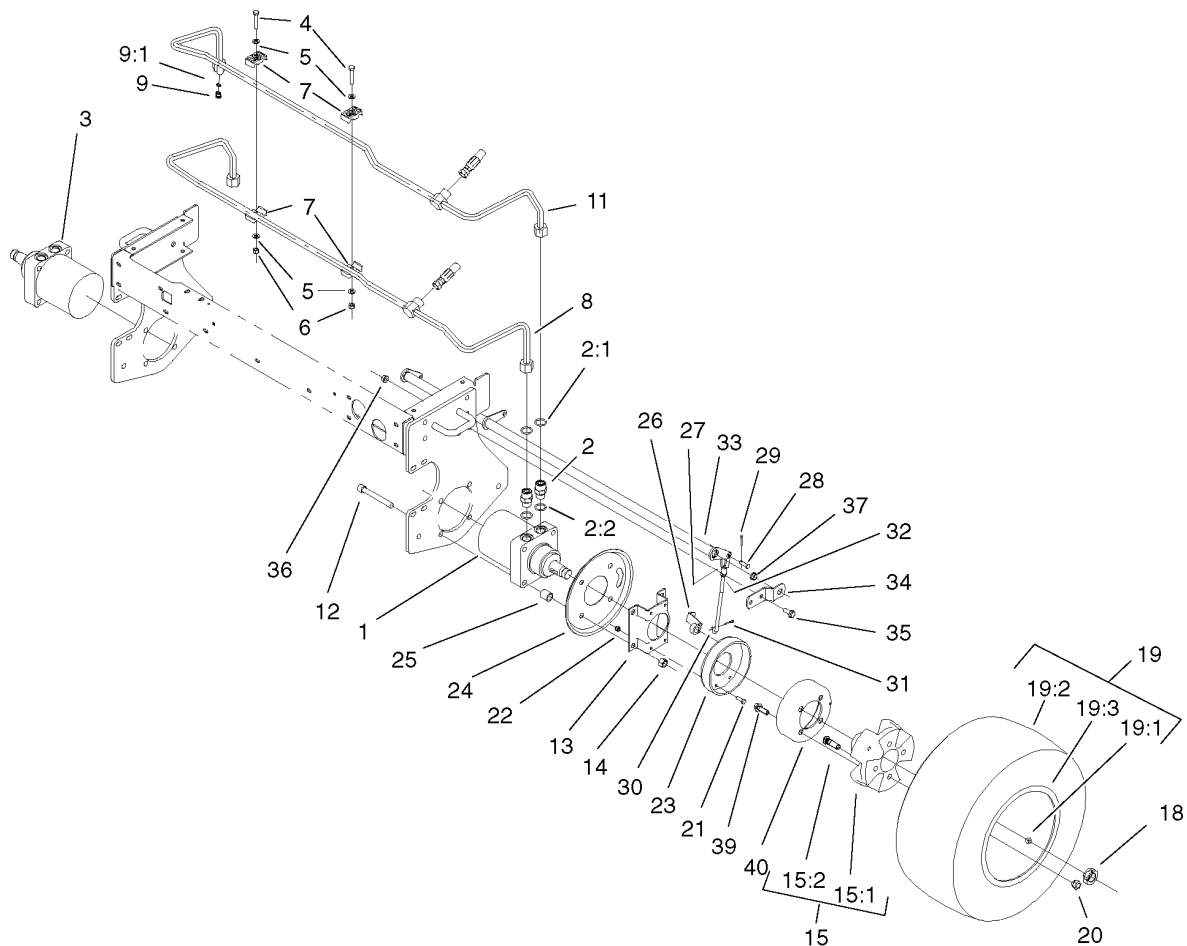
<13> Not serviced



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-HSBH
4	3234-38	8	Screw-Hfh
5	32128-49	12	Nut-Hex. Flange
6	99-3375-03	1	Step
7	2412-72	3	Insulated Closed Clip
8	95-8615	1	Tube-Breather
10	32144-10	11	Screw
12	3234-4	2	Screw-Sq. HD. Set
13	104-0468-01	1	Cover-Frame
18	3234-5	2	Screw-Hex. HD. Flange
19	99-3350-03	1	Tube-ROPS
20	3234-40	4	Screw-Hfh
21	32148-8	2	Locknut
22	95-8598-03	1	Bracket-Bulkhead, Scissor
23	74-0720	1	Tube-Manual
24	2412-133	2	Clamp-Tube
25	32144-70	2	Screw-Hex. HD.
26	3256-23	2	Washer-Flat
28	2412-108	1	Clamp-Worm
30	63-9920	1	Decal-Noise
31	85-6930	1	Decal-Noise Rating
32	32148-6	2	Insert-Threaded

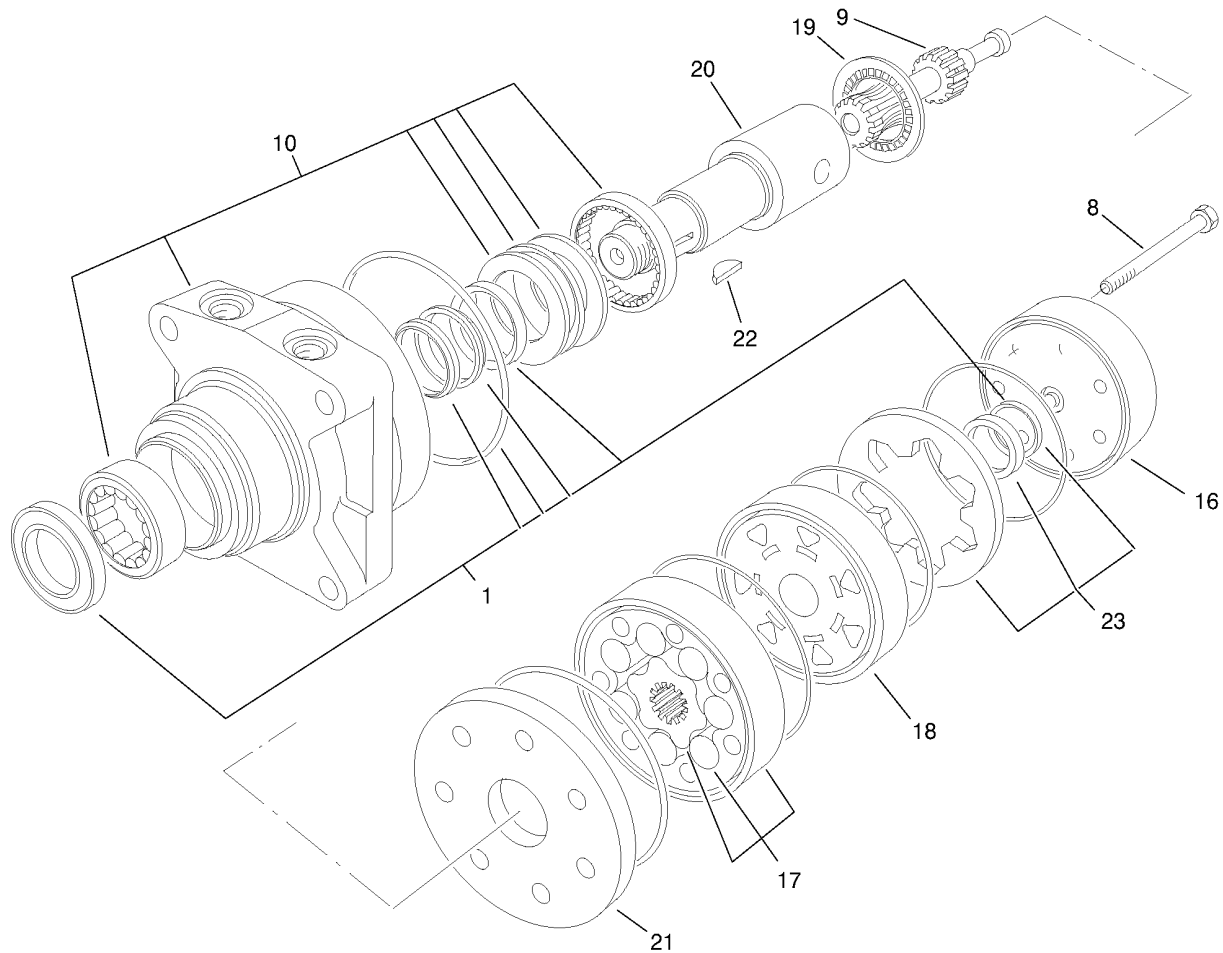
Ref	Part No.	Qty.	Description
33	99-3503	1	Tool-Angle Locator
34	104-4634-03	1	Toolbox ASM
35	104-4633-03	1	Toolbox Cover ASM



Front Wheel and Brake Assembly

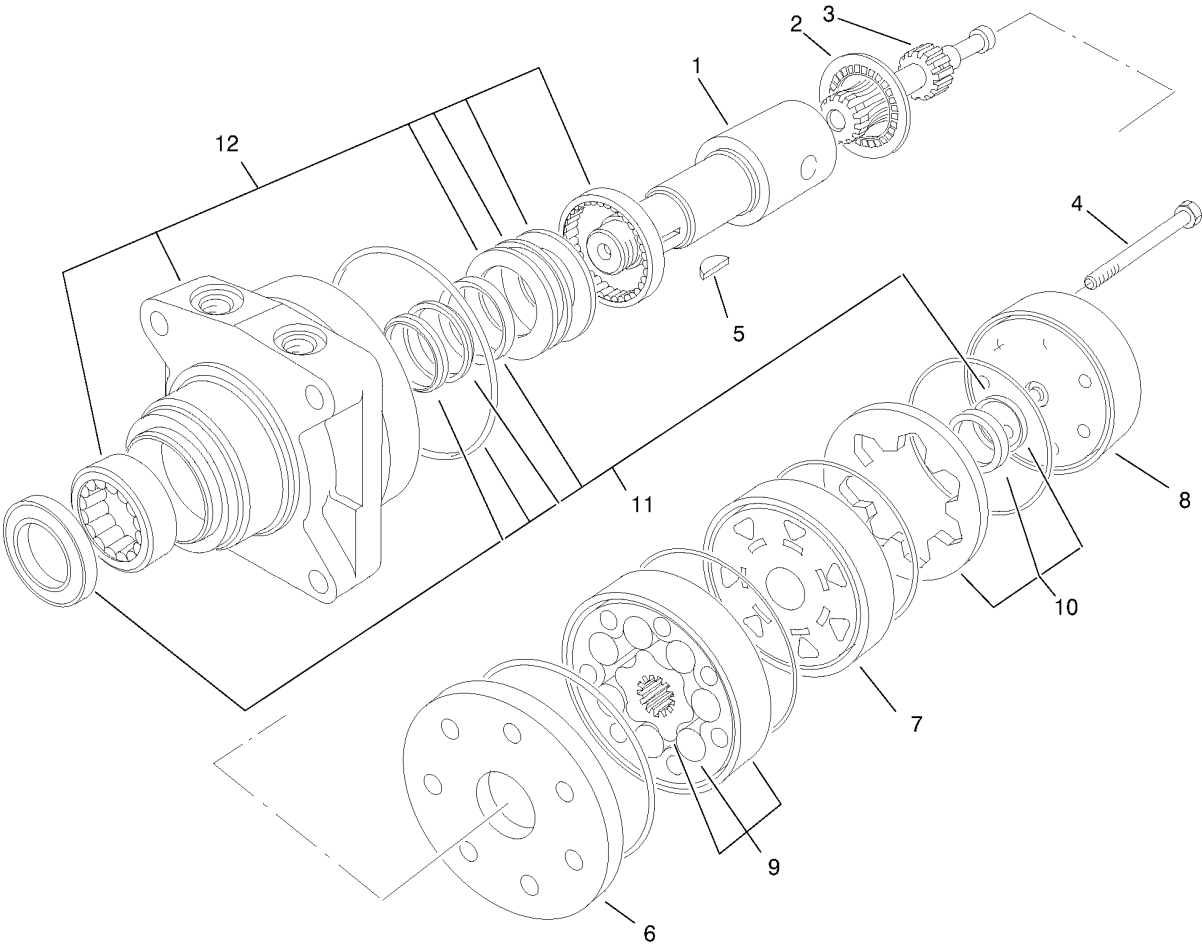
Ref	Part No.	Qty.	Description
1	75-9990	1	Motor-Hydraulic
2	340-7	4	Adapter
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	95-8693	1	Motor-Hydraulic
4	322-9	2	Screw-Hex HD. Cap
5	3256-23	4	Washer-Flat
6	3296-29	2	Nut-Lock, NI
7	56-7971	4	Clamp-Tube
8	95-8783	1	Tube Assembly
9	353-990	1	Plug (Incl. Ref. No.54)
9:1	237-78	1	"o"ring
11	95-8784	1	Tube Assembly
12	3274-99	8	Screw-HSH
13	84-2000-03	2	Bracket-Brake
14	3296-23	8	Nut-Lock
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	Valve Stem W/Cap
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-Hex HD. Cap
22	3296-42	8	Nut-Lock
23	104-7705	2	Brake ASM
24	104-0485-03	2	Shield-Wheel
25	92-1715	8	Spacer-Front Wheel
26	93-6850	2	Brake Lever Assembly
27	282-2	2	Clevis
28	283-1	2	Pin-Clevis
29	3272-10	2	Pin-Cotter
30	104-4627	2	Rod-Adjusting
31	3272-6	2	Pin-Cotter
32	3220-2	2	Nut-Jam
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
39	3274-105	8	Screw-HSBH
40	104-4809	2	Drum-Brake



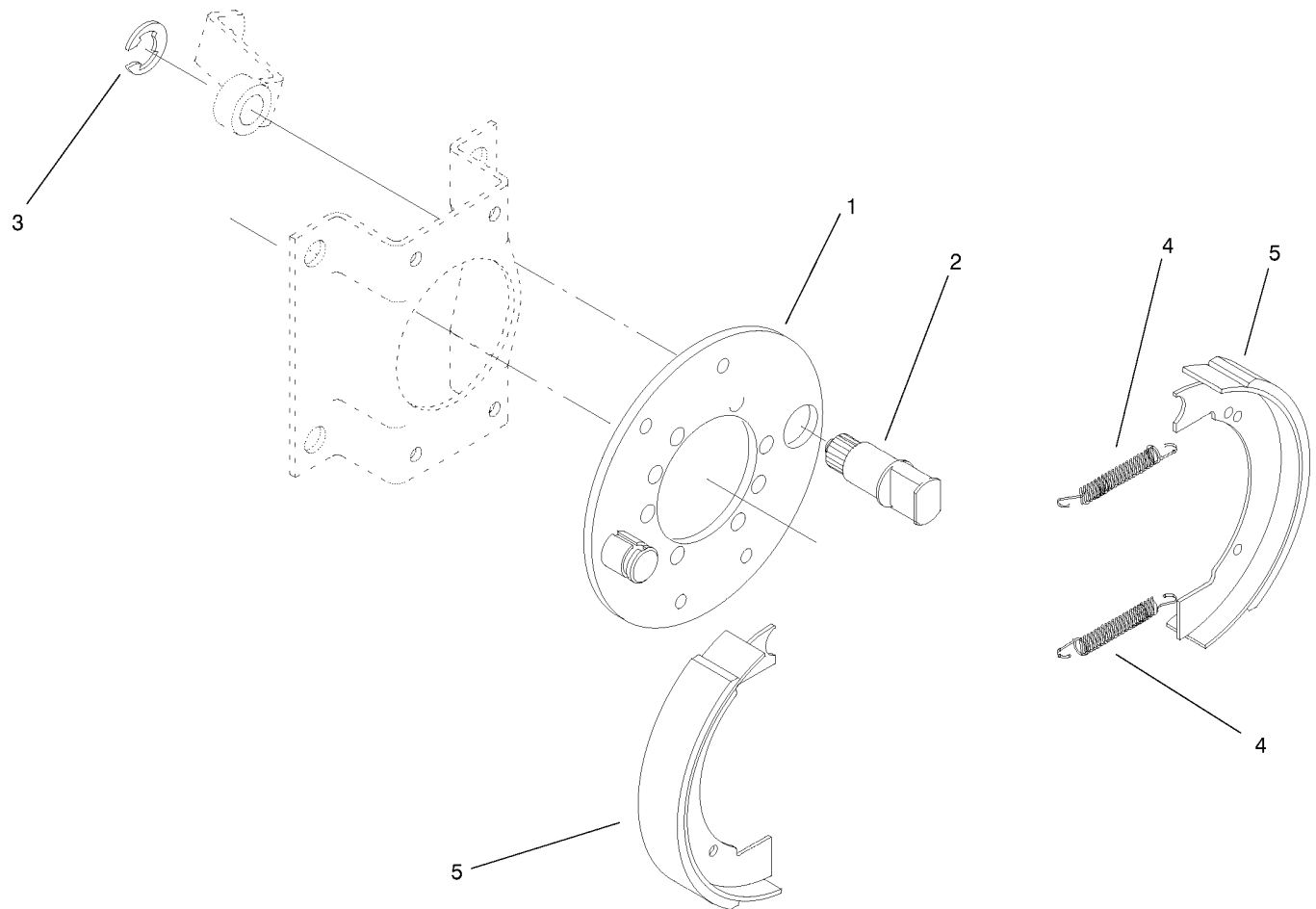
Hydraulic Wheel Motor Assembly No. 75-9990

Ref	Part No.	Qty.	Description				
1	76-0800	1	Seal Kit-Wheel Motor				
8	76-1010	7	Screw-Hex. HD.				
9	76-0960	1	Link-Drive				
10	76-0810	1	Wheel Motor Housing ASM				
16	76-0940	1	End Cover ASM				
17	76-0970	1	Rotor Set (Incl. Ref. No.19-21)				
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				



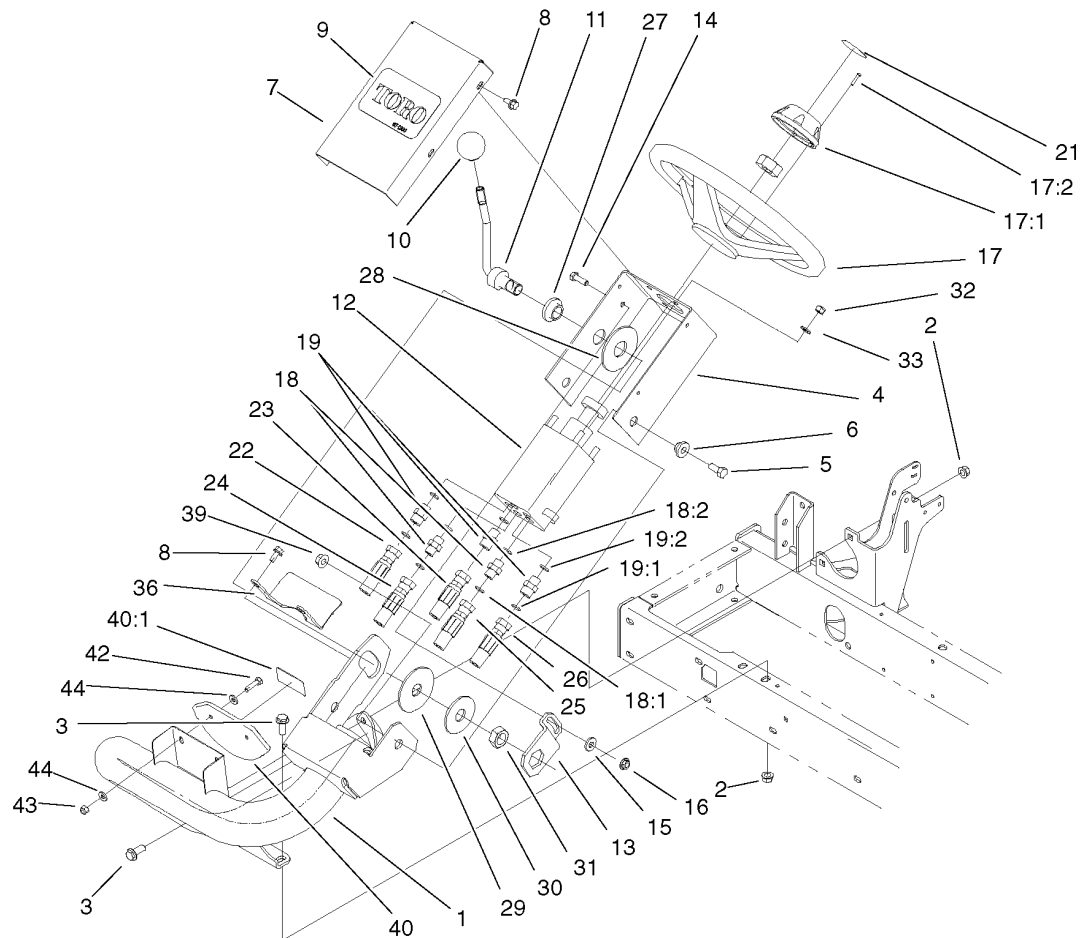
Hydraulic Motor Assembly No. 95-8693

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-Hex. HD.				
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	Rotor Set (Incl. Ref. No.19-21)				
10	76-0880	1	Commutator ASM				
11	76-0800	1	Seal Kit-Wheel Motor				
12	76-0810	1	Wheel Motor Housing ASM				



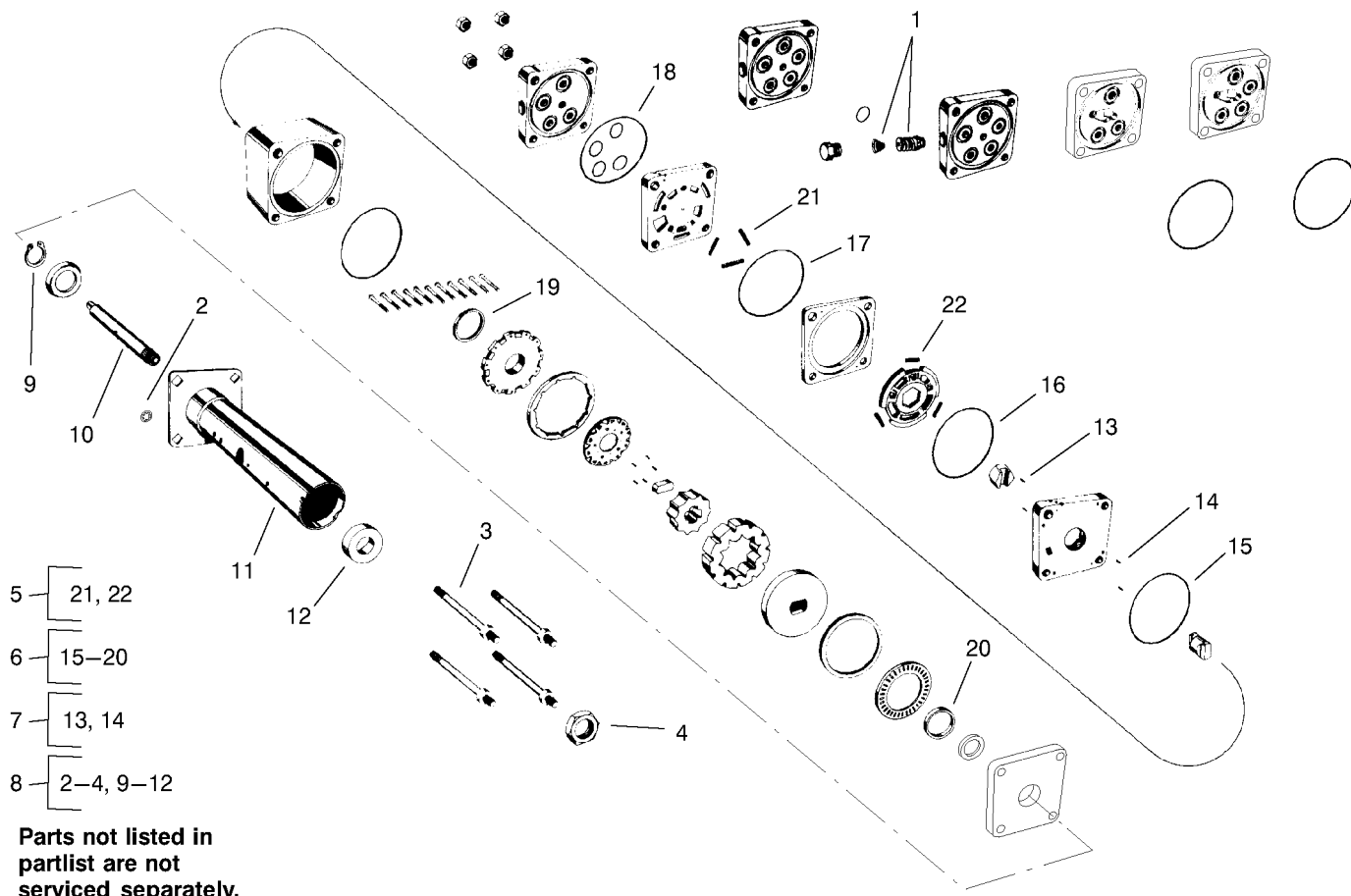
Brake Assembly No. 104-7705

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



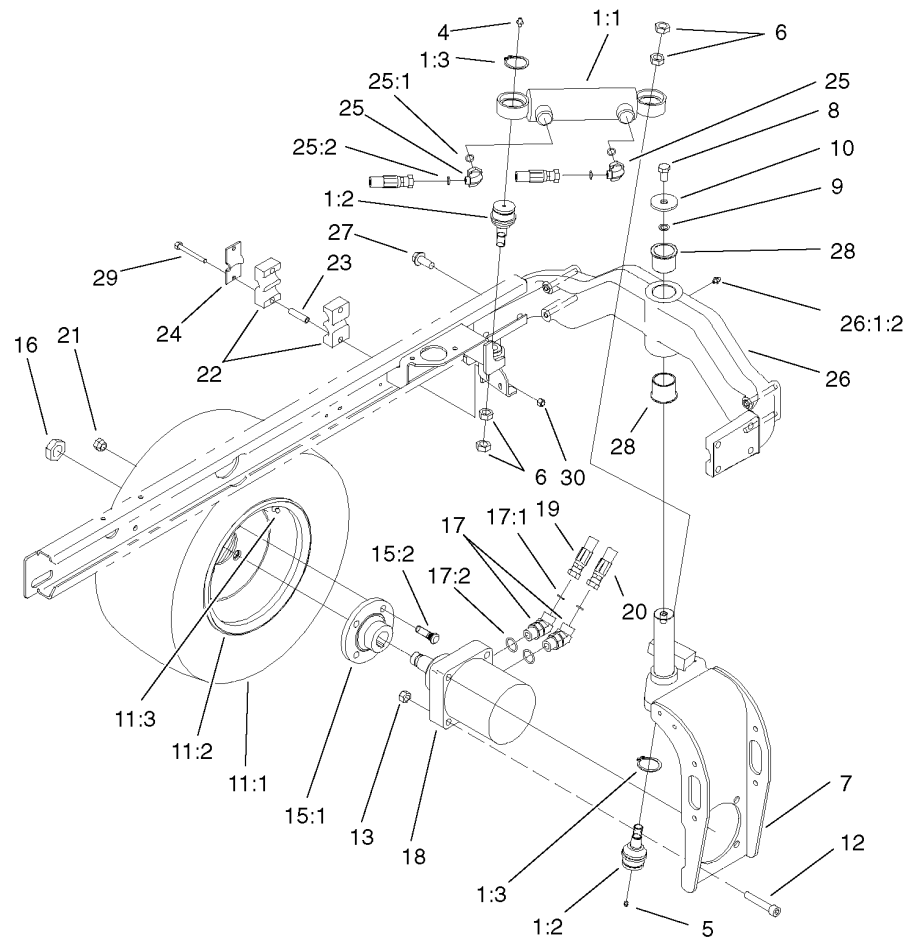
Steering Column Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	100-4896-01	1	Arm-Steering	19:1	237-22	1	O-Ring
2	32128-43	4	Nut-Flange	19:2	237-42	1	O-Ring
3	3234-11	4	Screw-HHF	21	68-5370	1	Decal-Toro
4	95-8793-01	1	Bracket-Steering Valve	22	95-8842	1	Hose Assembly
5	323-5	2	Screw-Hex HD. Cap	23	95-8843	1	Hose Assembly
6	93-5988	2	Spacer	24	100-4892	1	Hose ASM
7	95-8794-01	1	Cover-Steering	25	100-4893	1	Hose ASM
8	32144-10	5	Screw	26	95-8846	1	Hose Assembly
9	67-1300	1	Decal-Toro	27	99-3502	1	Boss-Tilt Steering
10	233-48	1	Knob	28	31-0390	1	Disc-Friction
11	95-8798-03	1	Lever Assembly	29	82-9010	1	Disc-Friction
12	104-0474	1	Control-Steering	30	80-2930	1	Washer
13	80-2880	1	Bracket-Steering, Tilt	31	3218-7	1	Nut-Jam
14	322-5	1	Screw-Hex HD. Cap	32	3296-4	4	Nut-Lock
15	3256-3	1	Washer-Flat	33	3256-23	4	Washer-Flat
16	32128-44	1	Nut-Flange	36	99-3405-01	1	Shield-Steering
17	68-5130	1	Wheel-Steering	39	32128-21	2	Nut-HF
17:1	68-5140	1	ASM-Cap, Steering Wheel (Incl. Ref. No.41)	40	100-4929	1	Slope Indicator ASM
17:2	32144-21	1	Screw-Pan HD. Phillips	40:1	100-4933	1	Decal-Danger
18	340-1	2	Adapter	40:1	100-4837	1	Decal-Danger
18:1	237-35	1	O-Ring	42	321-7	2	Screw-Cap
18:2	237-42	1	O-Ring	43	3296-42	2	Nut-Lock
19	340-2	3	Adapter	44	3256-22	4	Washer-Flat



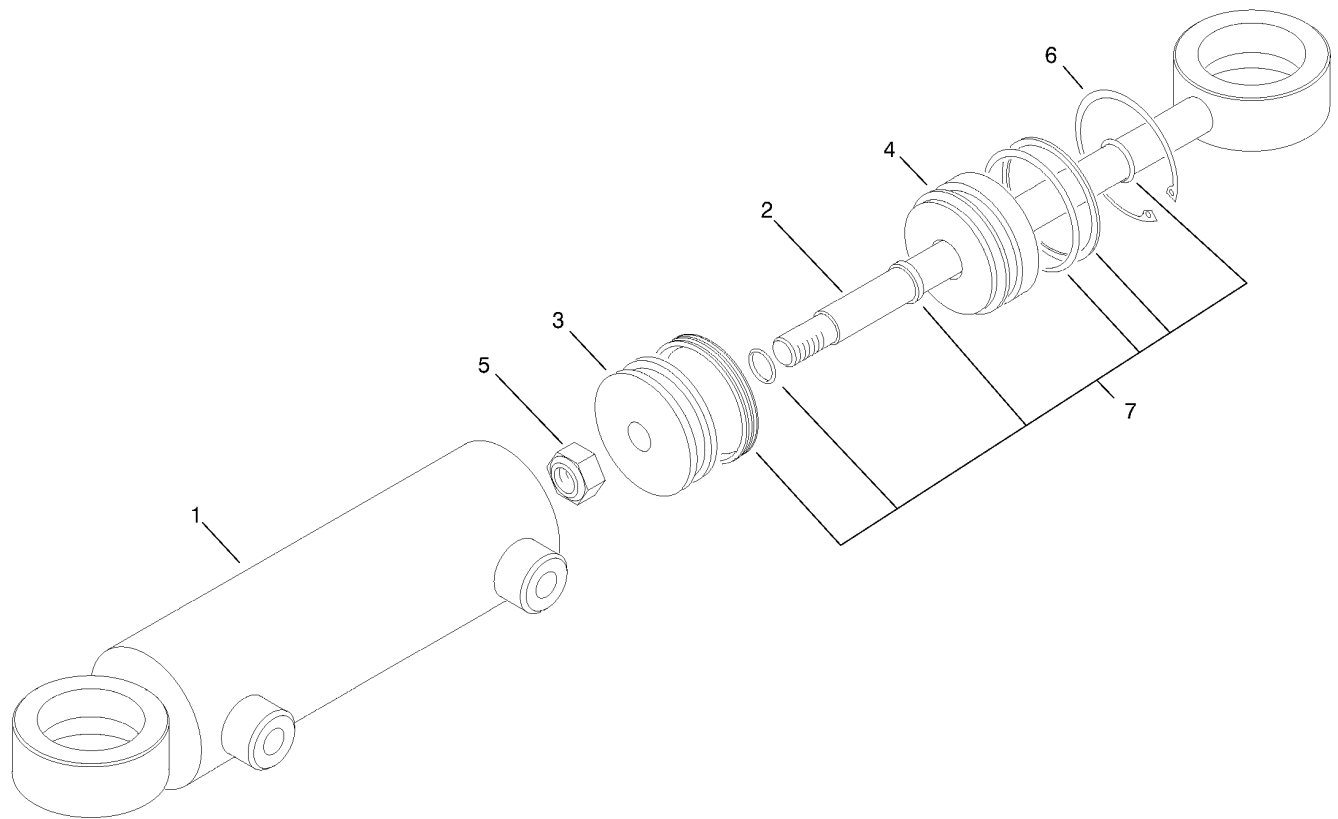
Steering Control Assembly No. 104-0474

Ref	Part No.	Qty.	Description
1	99-3523	1	Cartridge-Relief Valve (Incl. Ref. No.49)
2	92-7316	4	Nut-Push On
3	99-3524	4	Bolt-Special
4	47-6990	1	Nut
5	66-9970	1	Kit-Spring (Incl. Ref. No.4 And 25)
6	66-9980	1	Kit-Seal (Incl. Ref. No.1, 11, 19, 23, 31 And 33)
7	66-9990	1	Kit-Needle Roller (Incl. Ref. No.5)
8	104-0475	1	Column ASM



Rear Fork and Tire Assembly

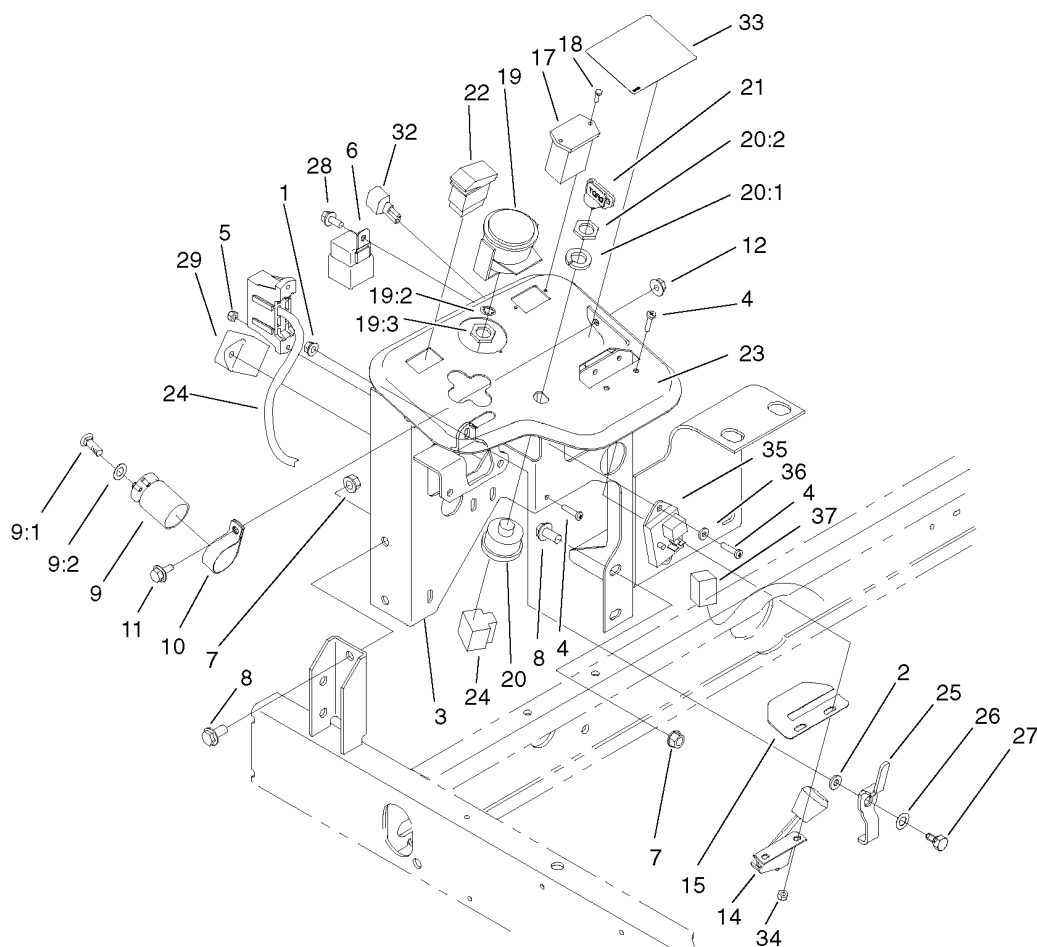
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
❶1		1	Steering Cylinder/Balljoint ASM	18	95-8694	1	Motor-Hydraulic
1:1	94-8141	1	Hydraulic Cylinder Assembly	19	105-1213	1	Hose ASM
1:2	92-5838	2	Ball Joint	20	105-1212	1	Hose ASM
1:3	32151-104	2	Ring-Retaining	21	242-50	4	Nut-Lug
4	302-5	1	Fitting-Grease	22	82-8170	2	Clamp
5	302-59	1	Plug-Grease	23	93-7960	2	Spacer
6	3220-6	4	Nut-Jam	24	93-7961	1	Clamp-Case Drain
7	95-8905-01	1	Rear Fork Assembly	25	340-132	2	90 Elbow
8	325-3	1	Washer-Plain	25:1	237-78	1	"o"ring
9	3255-2	1	Lockwasher	25:2	237-21	1	O-Ring
10	75-7730	1	Washer-Thrust	26	18-3979-03	1	Casting-Rear (Incl. Ref. No.4)
❶11		1	Tire & Wheel ASM	❶26:1		1	Rear Casting ASM
11:1	95-8656	1	Tire	26:1:2	302-5	1	Fitting-Grease
11:2	95-8657	1	Rim-Wheel	27	3234-38	8	Screw-Hfh
11:3	232-27	1	Valve Stem W/Cap	28	95-8805	2	Bushing
12	3274-93	4	Screw-HSH	29	322-13	2	Screw-HH
13	3296-23	4	Nut-Lock	30	3296-29	2	Nut-Lock, NI
❶15		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				



Hydraulic Cylinder Assembly No. 94-8141

Ref	Part No.	Qty.	Description				
1	94-9955	1	ASM-Barrel				
2	94-9956	1	ASM-Piston Rod				
3	94-9957	1	Piston				
4	94-9958	1	Gland-Cylinder				
5	32152-10	1	Nut-Lock				
6	32120-8	1	Ring-Snap				
7	86-5390	1	Kit-Seal Repair (Incl. Ref. No.4, 5, 7 And 9-11)				

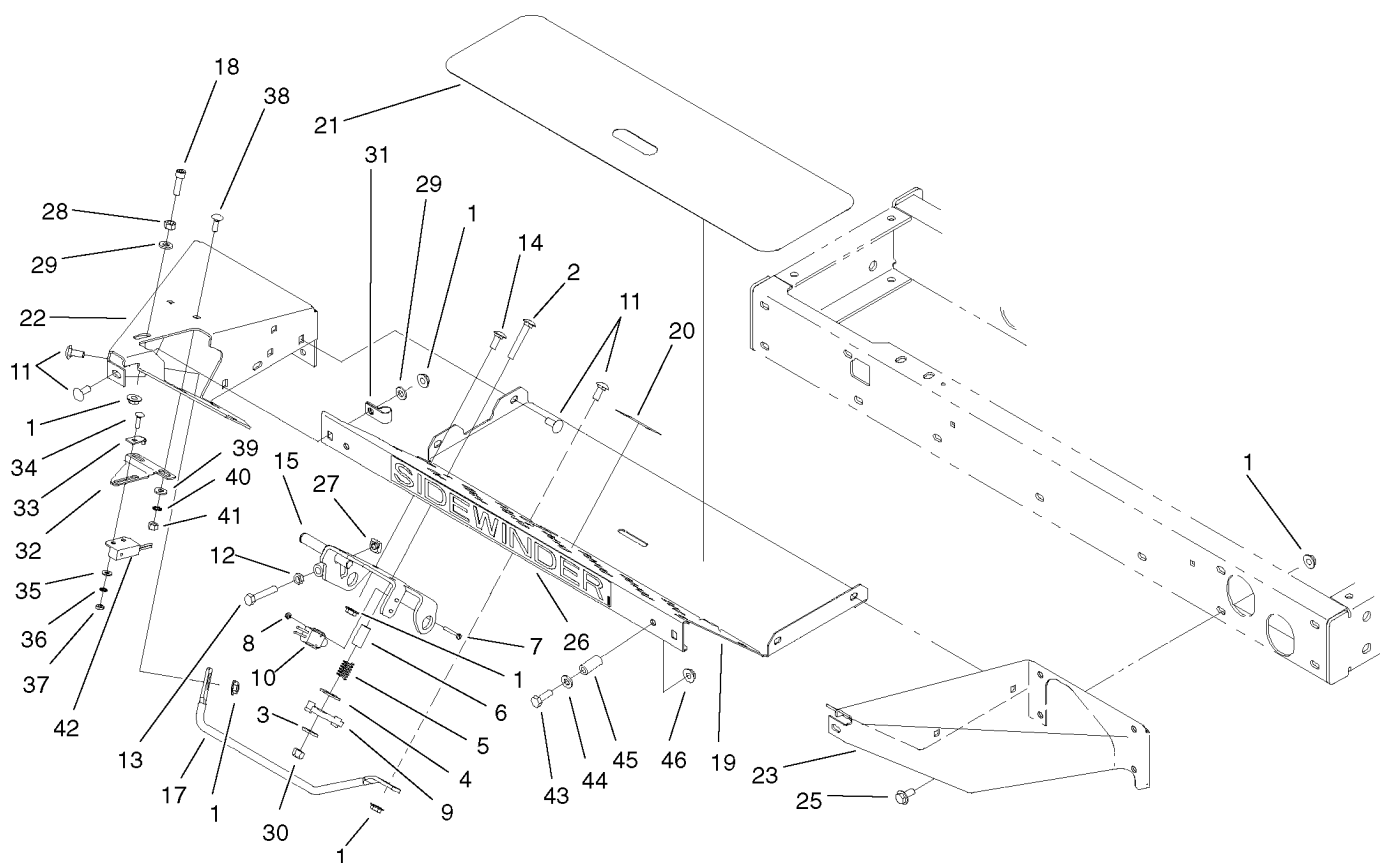
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Control Panel Assembly

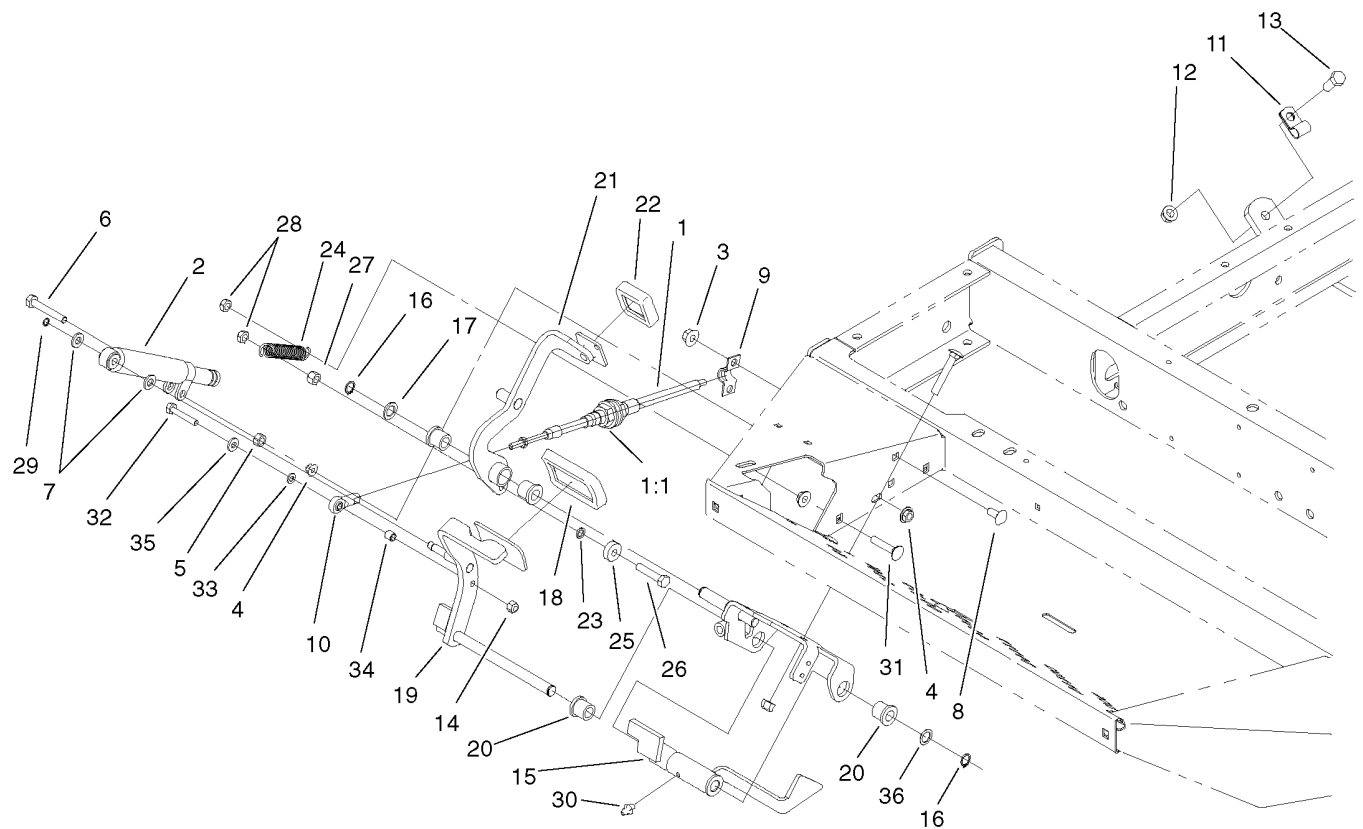
Ref	Part No.	Qty.	Description
1	32128-32	1	Nut-Flange
2	3256-22	1	Washer-Flat
3	95-8712-03	1	Control Panel Assembly
4	3250-27	4	Screw-Machine Cross Recess Pan HD.
5	3296-2	2	Nut
6	70-1480	4	Relay
7	32128-43	5	Nut-Flange
8	3234-1	5	Screw-HHF
9	37-2690	1	Capacitor
9:1	3252-18	2	Screw
9:2	3254-1	2	Washer-Lock
10	2412-74	1	R-Clamp
11	3234-4	1	Screw-Sq. HD. Set
12	32128-33	1	Nut-Flange
14	95-8855	1	Throttle-Control (Incl. Ref. No.31)
15	104-0421	1	Plate-Stop, Throttle
17	75-6820	1	Meter-Hour
18	32144-18	2	Screw-Hex. HD.
19	93-7053	1	Cluster-Warning Light (Incl. Ref. No.20)
19:1	219-17	4	Bulb
19:2	3254-1	1	Washer-Lock
19:3	3217-26	1	Nut

Ref	Part No.	Qty.	Description
20	88-9830	1	Switch-Ignition (Incl. Ref. No.13 And 14)
20:1	3254-5	1	Washer-Lock
20:2	218-461	1	Nut-Hex
21	63-8360	2	Key-Ignition
22	95-8999	1	Switch
23	100-4834	1	Decal-Console
24	100-4823	1	Harness-Wire
25	99-3401-03	1	Lever-Lock, Valve
26	3290-477	1	Washer-Curved
27	63-3410	1	Screw-Shoulder
28	32144-10	5	Screw
29	99-3463	1	Controller-Glow
32	100-4918	4	Diode
33	99-3558	1	Decal-Console (Europe)
34	3290-148	2	Nut-Lock
35	100-6186	1	Module-Delay, Seat
36	3256-14	1	Washer-Flat
37	105-3960	1	Harness-Wire



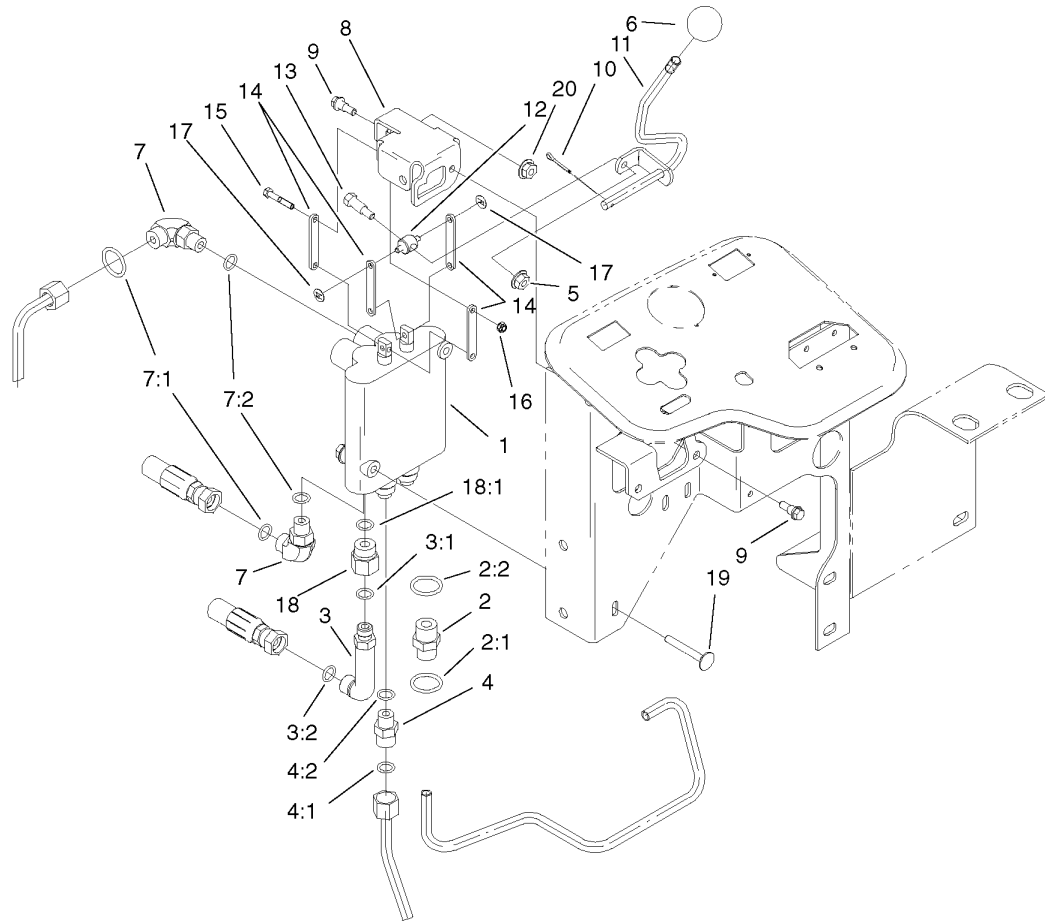
Front Platform Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	32128-44	22	Nut-Flange	26	99-3388	1	Decal-Sidewinder (Model No. 03201)
2	3230-6	1	Screw-CARR	27	99-3565	1	Nut-Square
3	3256-3	1	Washer-Flat	28	3217-6	1	Nut-Hex.
4	3256-40	1	Washer-Flat	29	3256-23	2	Washer-Flat
5	65-9940	1	Spring-Compression	30	3296-29	1	Nut-Lock, NI
6	95-8866	1	Tube-Rocker Arm	31	2412-103	1	Clamp-Fuel Line
7	32105-9	2	Screw-Pan HD.	32	100-4871	1	Bracket-Switch, Neutral
8	3296-9	2	Nut	33	100-4872	1	Plate-Switch, Neutral
9	99-3593	1	Rocker Arm	34	3229-20	1	Screw-CARR
10	95-8900	1	Switch	35	3256-14	1	Washer-Flat
11	3230-1	9	Bolt-Carriage	36	3255-17	1	Washer-Lock
12	3218-2	1	Nut-Jam	37	3296-2	1	Nut
13	322-41	1	Screw-Machine, Hex. HD.	38	3229-1	2	Screw-CARR
14	3230-23	2	Screw-CARR	39	3256-22	2	Washer-Flat
15	95-8869-03	1	Bracket Assembly-Traction	40	3255-7	2	Washer-Lock
17	95-8893	1	Bar-Deflector	41	3217-5	2	Hex. Nut
18	3274-22	1	Bolt	42	100-1270	1	Switch-Proximity
19	95-8610-01	1	Plate-Floor	43	323-9	2	Screw-HH
20	99-3444	1	Decal-Mow/Transport	44	3256-4	2	Washer-Flat
21	99-3478	1	Tread-Floor Plate	45	104-4613	2	Tube-Latch
22	100-4884-01	1	Support-Floor, RH	46	32128-43	2	Nut-Flange
23	95-8612-01	1	Bracket-Floor Plate, LH				
25	3234-5	10	Screw-Hex. HD. Flange				



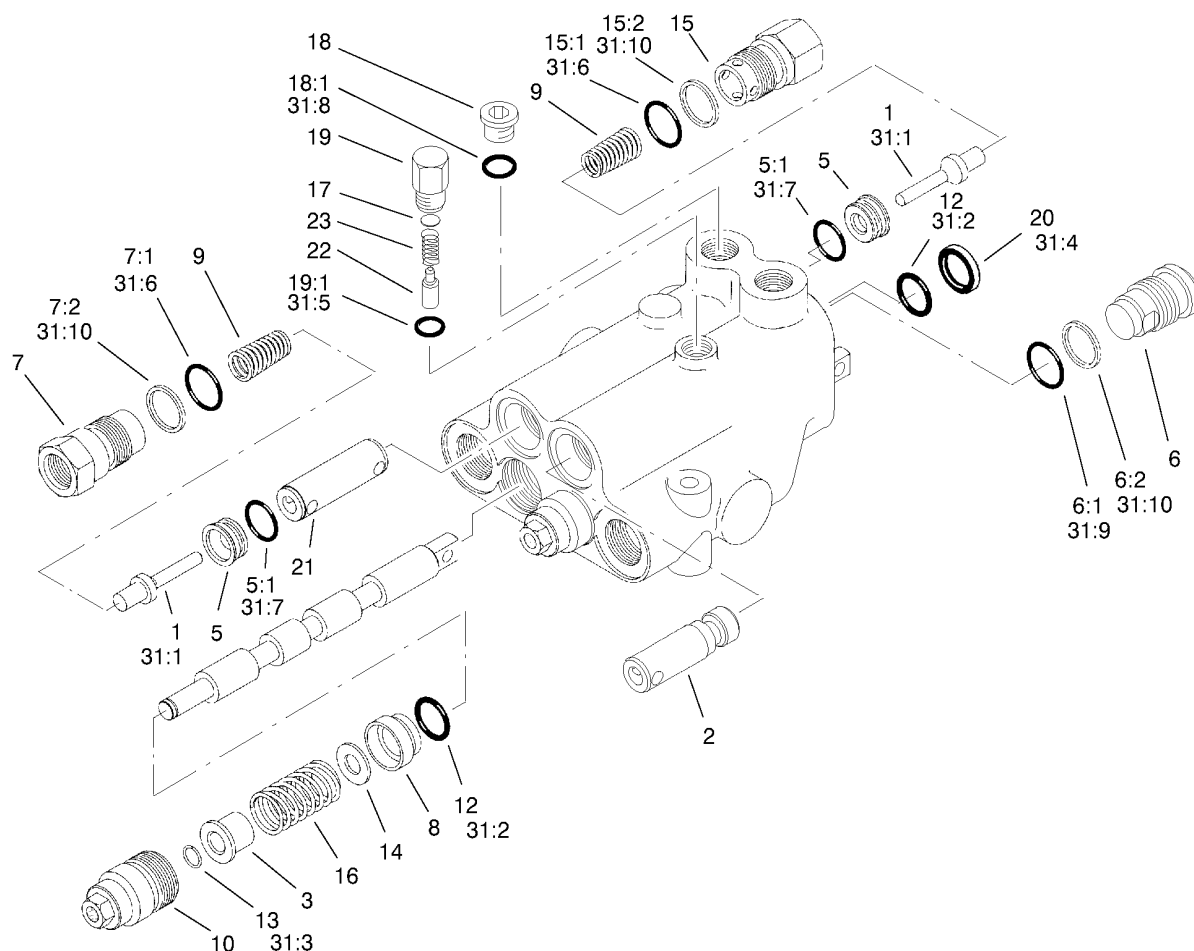
Traction Pedal Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	100-4815	1	Cable-Control, Traction	23	75-5470	1	Spacer Bearing
1:1	3220-1	2	Nut-Jam	24	99-3476	1	Spring-Extension
2	76-8870	1	Assy.-Damper, Lever	25	251-259	1	Bearing-Ball
3	32128-20	2	Nut-Flange	26	322-7	1	Screw-HH
4	32128-44	3	Nut-Flange	27	3296-29	1	Nut-Lock, NI
5	3217-6	1	Nut-Hex.	28	3296-47	2	Nut-Hex Lock
6	322-10	1	Screw-Cap Hex. HD.	29	32151-3	1	Ring-Retainer
7	3256-23	2	Washer-Flat	30	302-5	1	Fitting-Grease
8	3230-23	2	Screw-CARR	31	3230-27	1	Bolt-Carriage
9	93-2092	1	Clamp-Cable	32	321-9	1	Screw-Hex HD. Cap
10	2411-41	1	Rod End	33	33093-00	1	Washer-Flat
11	2412-10	1	Clamp-Hose	34	99-3545	1	Spacer
12	32128-43	1	Nut-Flange	35	3256-22	1	Washer-Flat
13	323-6	1	Screw-HH	36	73-0040	4	Washer-Thrust
14	3296-42	1	Nut-Lock				
15	95-8861	1	Slide Assembly				
16	32151-84	2	Ring-Retaining				
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 Assembly-Reverse (Incl. Ref. No.20)				
22	74-9110	1	Pad-Pedal, Reverse				



Control Valve Installation Assembly

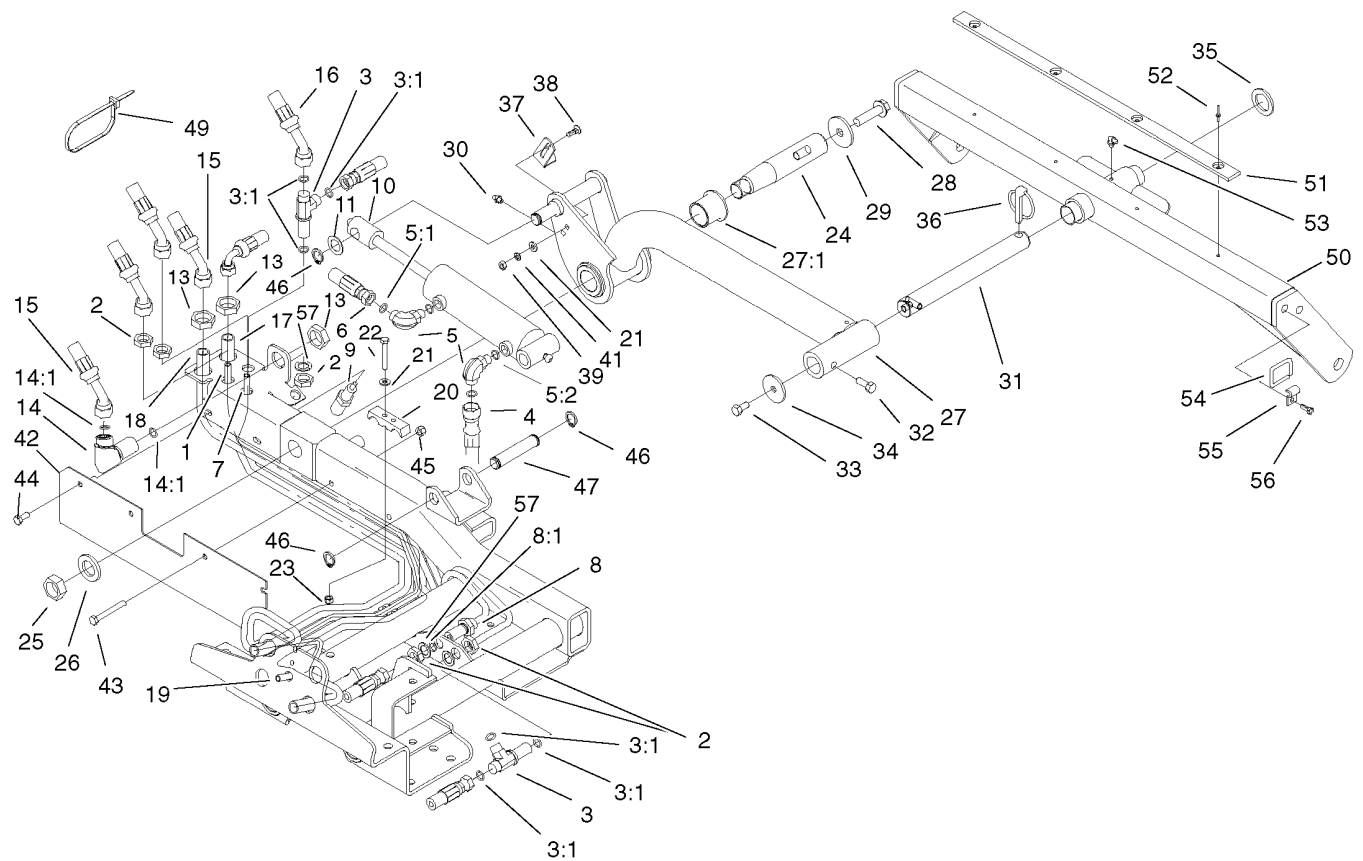
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	95-8581	1	Valve-2 Spool	16	87-5140	3	Nut-Lock
2	340-3	1	Adapter	17	93-3988	2	Pushnut
2:1	237-22	1	O-Ring	18	353-397	1	Adapter Reducer
2:2	237-79	1	"o"ring	18:1	237-79	1	"o"ring
3	69-4320	1	Fitting-Hydraulic, 90° (Incl. Ref. No. 7 And 9)	19	3230-33	2	Screw-CARR
3:1	237-22	1	O-Ring	20	32128-32	2	Nut-Flange
3:2	237-42	1	O-Ring				
4	340-2	1	Adapter				
4:1	237-22	1	O-Ring				
4:2	237-42	1	O-Ring				
5	32128-33	3	Nut-Flange				
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-Actuator, Valve				
9	42-3560	2	Bolt-Shoulder				
10	3272-6	1	Pin-Cotter				
11	95-8635	1	Lever-Valve				
12	95-8638	1	Trunnion-Actuator, Valve				
13	92-8916	1	Bolt-Shoulder				
14	95-8634	4	Link				
15	87-5150	3	Bolt				



Control Valve Assembly No. 95-8581

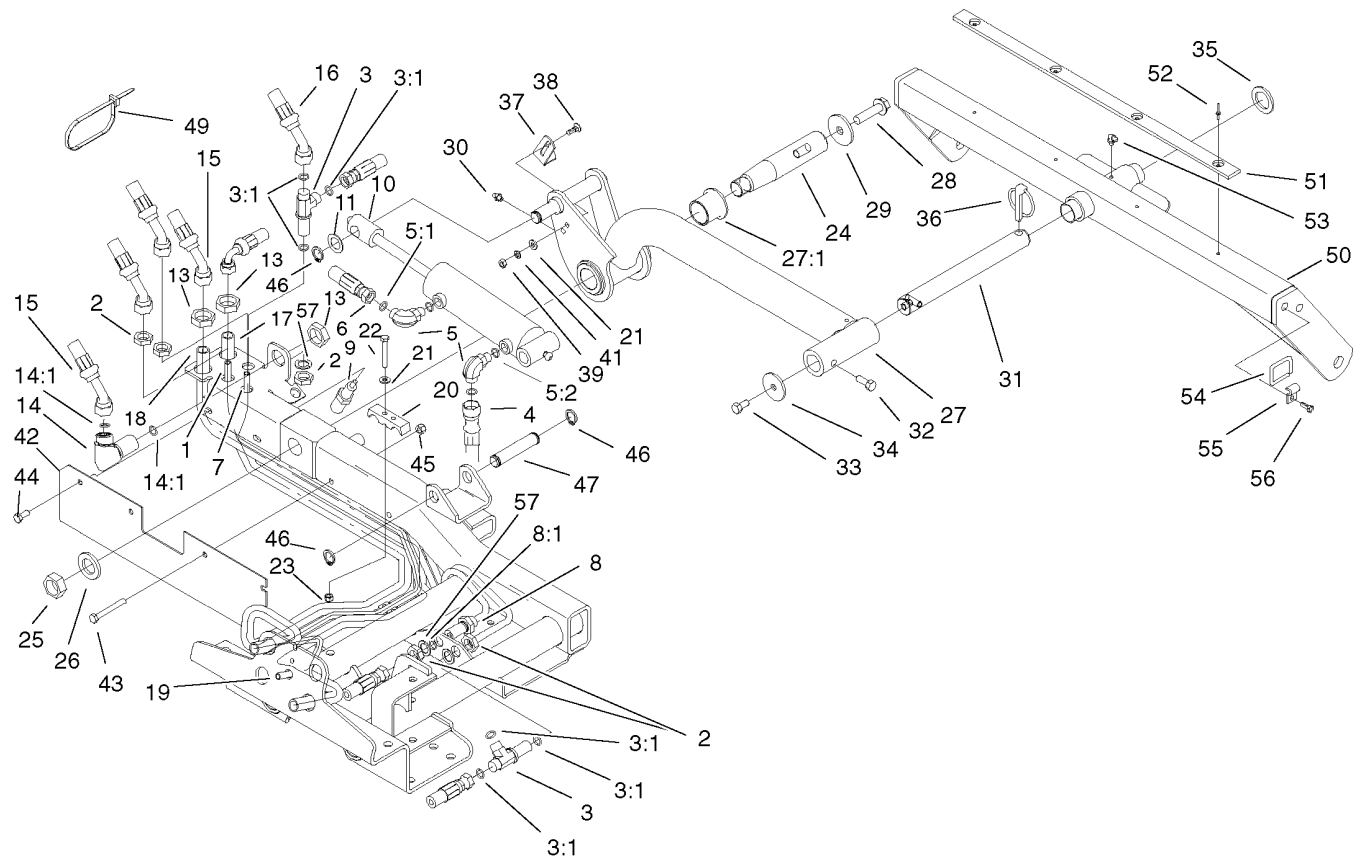
Ref	Part No.	Qty.	Description
1	58-6290	3	Poppet Assembly
2	69-1840	1	Plunger
3	58-6310	2	Spacer
5	58-6330	3	Seat Assy. (Incl. Ref. No.36)
5:1	58-6340	1	Seal-O-Ring
6	58-6350	1	Plug Assembly (Incl. Ref. No.9-10)
6:1	60-5720	1	Seal-O-Ring
6:2	58-6370	1	Washer-Back-Up
7	99-3527	2	Plug Assembly (Incl. Ref. No.29 And 30)
7:1	60-5720	1	Seal-O-Ring
7:2	59-7730	1	Washer-Backup
8	58-6400	2	Bushing
9	69-1810	3	Spring
10	58-6420	2	ASM-Cap
12	58-6450	4	O-Ring
13	58-6460	2	Ring-Retaining
14	65-2770	2	Washer
15	99-3526	1	Plug Assembly (Incl. Ref. No.25 And 26)
15:1	60-5720	1	Seal-O-Ring
15:2	59-7730	1	Washer-Backup
16	99-3531	2	Spring
17	60-6450	1	Disc

Ref	Part No.	Qty.	Description
18	353-989	1	Plug (Incl. Ref. No.15)
18:1	237-42	1	O-Ring
19	58-6780	1	Plug Assembly (Incl. Ref. No.5)
19:1	58-6790	1	Seal-O-Ring
20	58-6320	2	Wiper-Seal
21	99-3528	1	Plunger
22	58-6770	1	Plunger-Detent
23	58-6760	1	Spring
31	99-3530	1	Kit-Seal (Incl. Ref. No.1, 12-13, 20, 24-25 And 27-30)
31:1	58-6290	3	Poppet Assembly
31:2	58-6450	4	O-Ring
31:3	58-6460	2	Ring-Retaining
31:4	58-6320	2	Wiper-Seal
31:5	58-6790	1	Seal-O-Ring
31:6	60-5720	2	Seal-O-Ring
31:7	58-6340	2	Seal-O-Ring
31:8	237-42	1	O-Ring
31:9	60-5720	2	Seal-O-Ring
31:10	59-7730	2	Washer-Backup



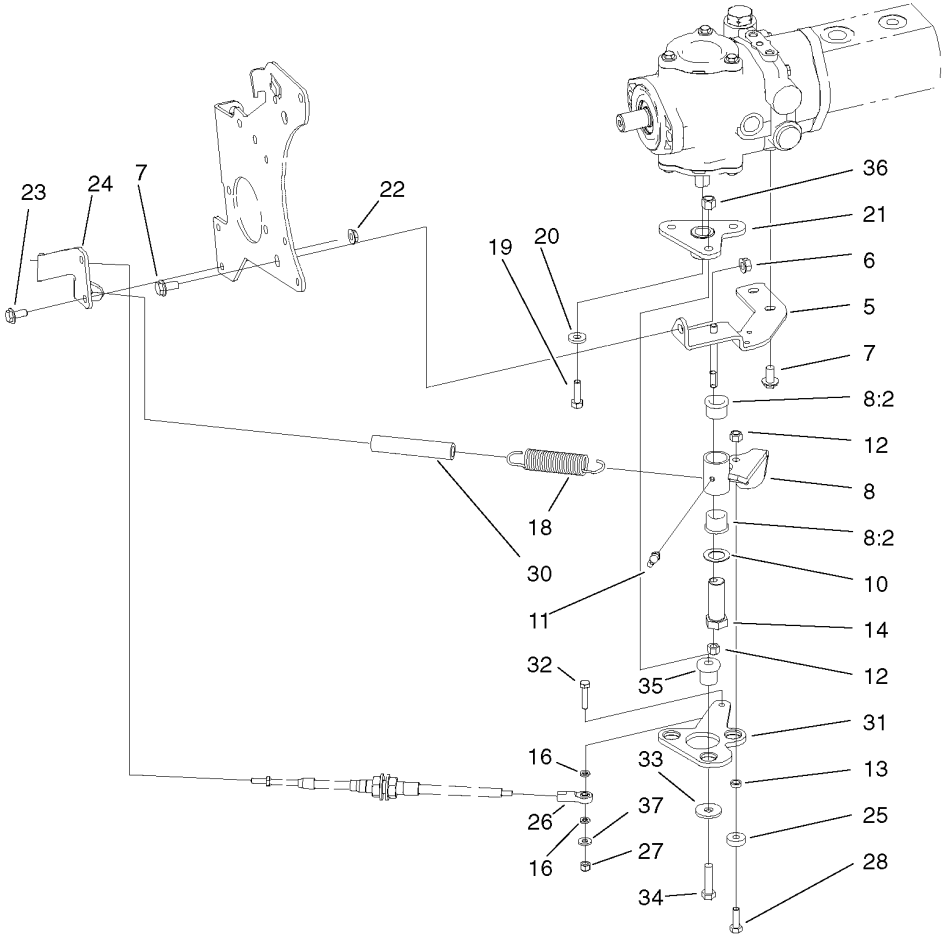
Rear Liftarm Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-0402	1	Tube ASM	20	99-3641	2	Clamp-Tube
2	340-70	5	Locknut-Bulkhead	21	3256-22	6	Washer-Flat
3	340-68	2	Fitting-Tee, Bulkhead	22	321-11	2	Bolt
3:1	237-22	6	O-Ring	23	3296-42	2	Nut-Lock
4	104-0407	1	Hose ASM	24	95-8990	1	Shaft-Pivot, Rear
5	340-77	2	Fitting-HYD., 90°	25	3220-9	1	Nut
5:1	237-22	1	O-Ring	26	86-1480	1	Washer
5:2	237-42	1	O-Ring	27	100-4938	1	Rear Lift Arm ASM
6	100-4891	1	Hose ASM	27:1	69-6470	2	Bushing
7	104-0403	1	Tube ASM	28	3234-27	1	Screw-Flange
8	340-71	1	Fitting-Straight, Bulkhead	29	75-7730	1	Washer-Thrust
8:1	237-22	2	O-Ring	30	302-5	1	Fitting-Grease
9	93-6762	1	Switch-Push Button	31	100-4944	1	Shaft-Pivot, Cutting Unit
10	95-8978	1	Cylinder-Hydraulic	32	323-6	1	Screw-HH
11	3-6498	1	Washer-Thrust	33	323-4	1	Screw-HH
13	340-74	3	Locknut-Bulkhead	34	63-7400	1	Washer-Rebound
14	340-72	1	Elbow-Bulkhead Union, 90°	35	3-6781	1	Washer-Thrust
14:1	237-65	2	O-Ring	36	283-71	1	Pin-Lynch
15	100-4879	2	Hose ASM	37	95-8613	1	Bracket-Switch
16	95-8825	1	Hose Assembly (Model No. 03201)	38	3229-1	2	Screw-CARR
17	104-0401	1	Tube ASM	39	3217-5	2	Hex. Nut
18	104-0400	1	Tube-ASM	41	3253-3	2	Washer-Lock
19	104-0404	1	Tube ASM	42	104-0453-03	1	Guard
				43	322-12	2	Screw-Hex HD. Cap



Rear Liftarm Assembly (continued)

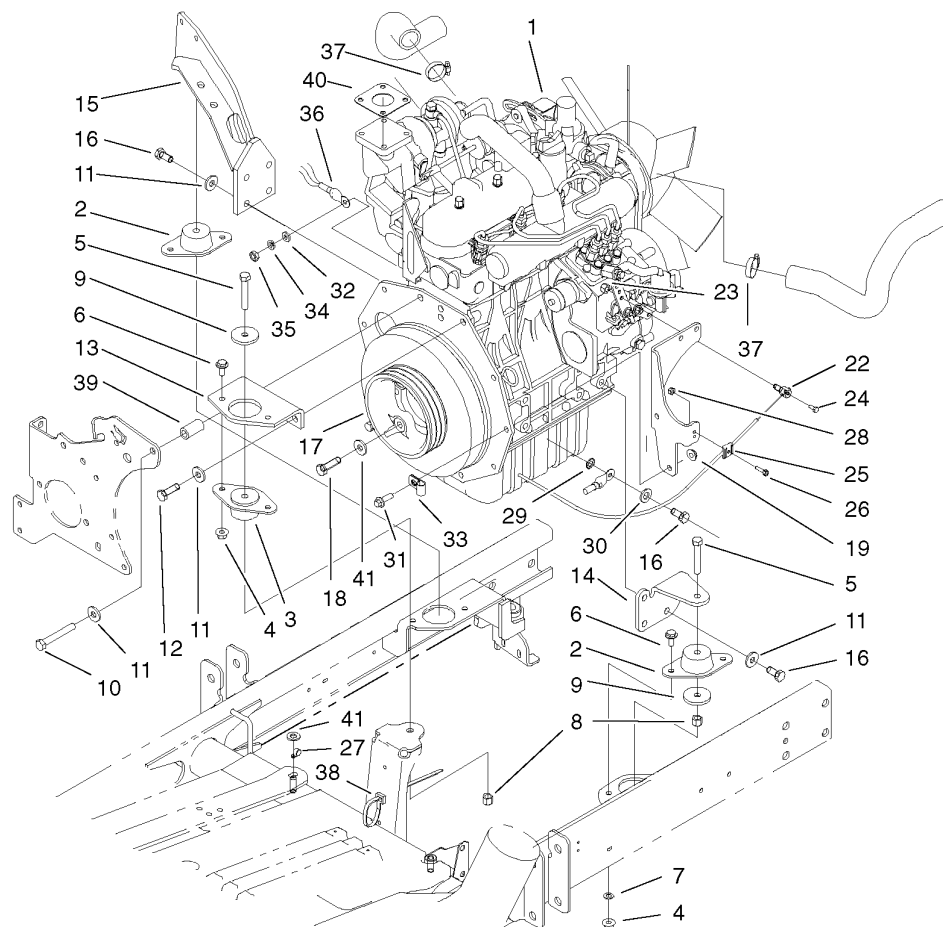
Ref	Part No.	Qty.	Description				
44	322-3	2	Screw-Hex HD. Cap				
45	32128-20	4	Nut-Flange				
46	32120-93	3	Snap Ring				
47	95-8575	1	Pin				
49	3334-945	1	Tie-Cable				
50	104-4229	1	Rear Carrier Frame ASM				
51	95-8936	1	Strip-Wear				
52	3269-18	4	Rivet-Pop				
53	302-60	1	Fitting-Grease 90Ø				
54	104-4240	1	Link-Rear				
55	3-6657	1	Clip-Skid				
56	32144-14	1	Screw-Wash. HD., TAP.				
57	3254-7	3	Washer-Lock				



Neutral Arm Assembly

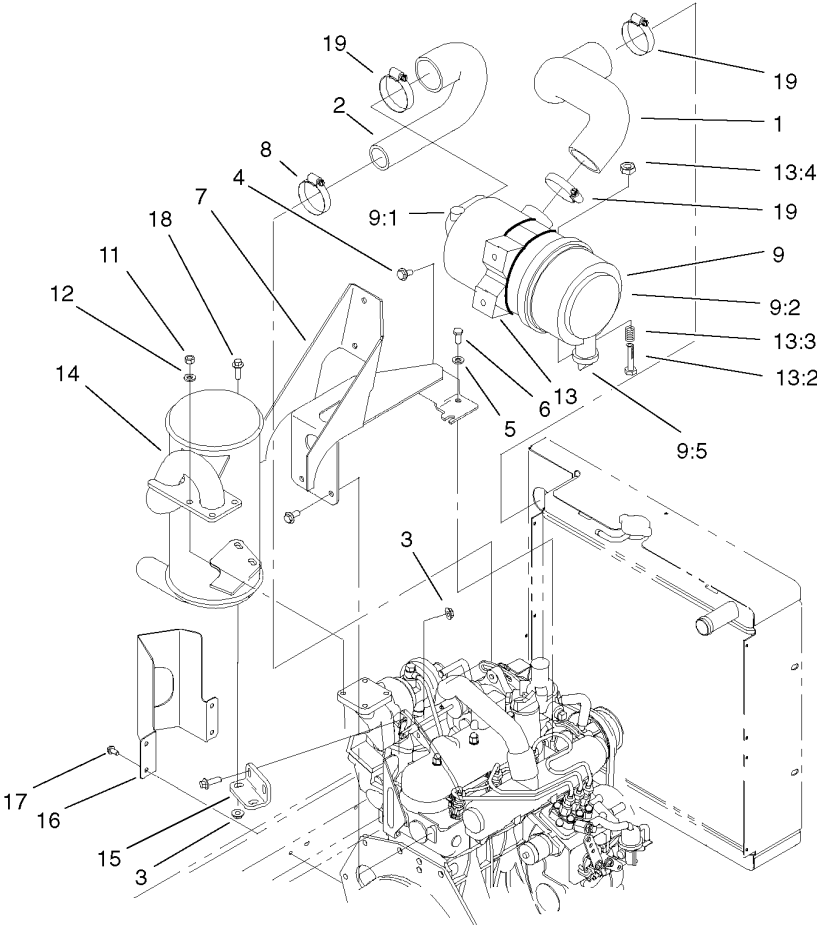
Ref	Part No.	Qty.	Description
5	95-8960-03	1	Bracket Assembly-Neutral
6	32128-43	1	Nut-Flange
7	3234-1	3	Screw-HHF
8	104-0422	1	Neutral Arm ASM
8:2	256-113	2	Bushing-Flange
10	3-6498	1	Washer-Thrust
11	302-60	1	Fitting-Grease 90Ø
12	3296-29	2	Nut-Lock, NI
13	100-4817	1	Spacer-Bearing
14	76-8640	1	Stud-Traction
16	33093-00	2	Washer-Flat
18	94-1369	1	Spring-Extension
19	3210-6	1	Screw, 5/16" N. F. X 1-1/8"
20	88-7200	1	Washer-Flat
21	99-3598-03	1	Hub ASM
22	32128-44	2	Nut-Flange
23	3234-5	2	Screw-Hex. HD. Flange
24	104-0464-03	1	Bracket-Support, Cable
25	251-259	1	Bearing-Ball
26	2411-41	1	Rod End
27	3296-42	1	Nut-Lock
28	3274-104	1	Screw
30	99-3556	1	Hose-Dampener
31	99-3594-03	1	Lever-Pump

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



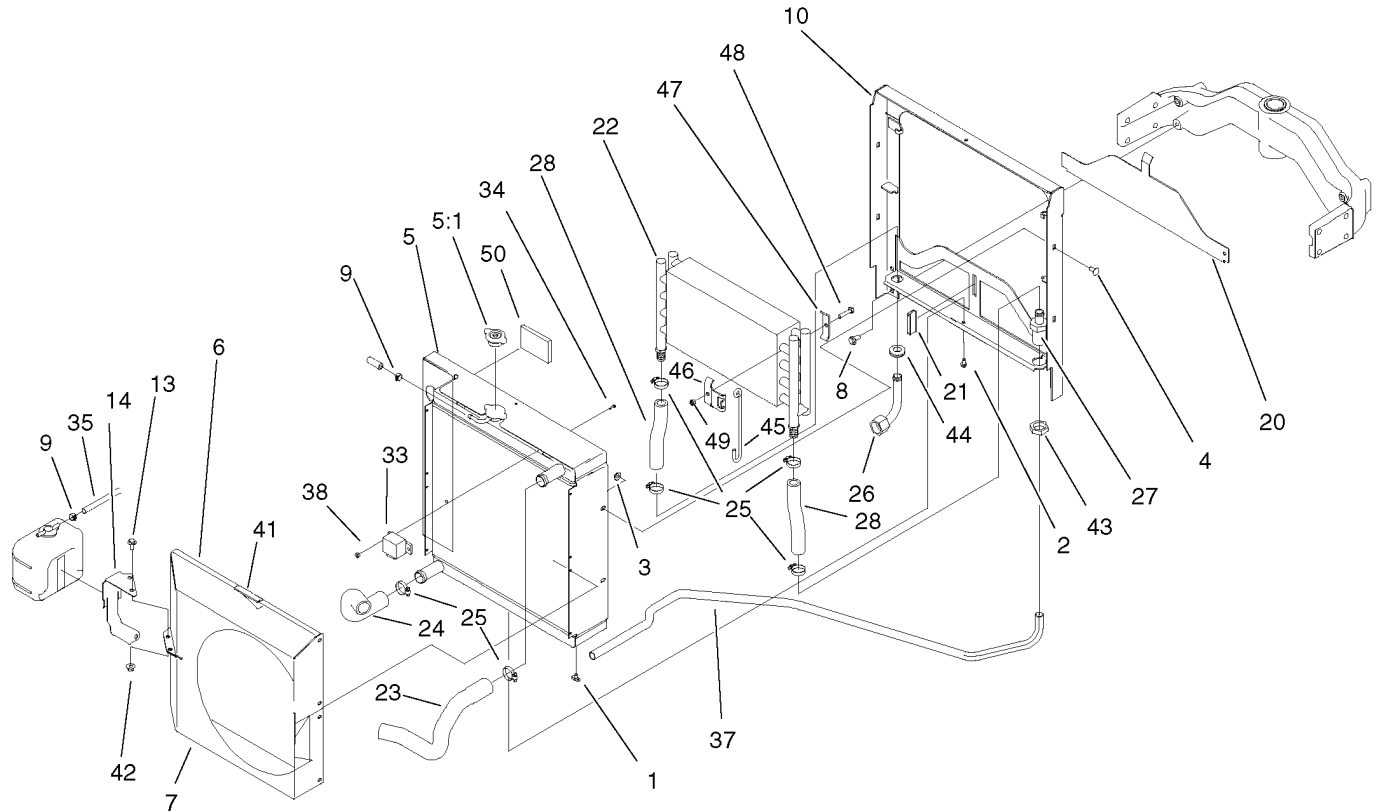
Engine Assembly

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	Hex Washer HD. Screw
2	83-1030	2	Mount-Engine	27	2412-112	1	Clamp
3	93-5265	1	Mount-Engine	28	3296-2	1	Nut
4	32128-20	6	Nut-Flange	29	3255-9	1	Washer-Lock
5	323-11	3	Screw-Hex HD. Cap	30	3256-25	1	Washer-Flat
6	3234-5	6	Screw-Hex. HD. Flange	31	3234-17	2	Screw-HHF
7	3255-8	1	Washer-EXT. Tooth Lock	32	3256-78	1	Washer-Flat
8	3296-39	3	Nut-Lock, NI	33	2412-10	1	Clamp-Hose
9	80-8560	3	Washer	34	43-5930	1	Washer-Lock
10	42-9370	1	Screw-Cap Hex. HD.	35	48-7890	1	Nut
11	80-6990	9	Washer-Hardened	36	99-3441	1	Harness-Wire
12	95-8812	1	Screw-Hhc M10 X 30	37	2412-34	2	Clamp-Hose
13	99-3618-03	1	Mount-Engine, Front	38	3290-378	14	Cable Tie
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-F/W
16	63-7790	8	Screw	41	3256-24	4	Washer-Flat
17	99-3626-03	1	Pulley-3V, Engine				
18	56-2140	3	Bolt (M10 X 1.25 X 35)				
19	32128-44	2	Nut-Flange				
22	98-9311	1	Swivel-Throttle				
23	3296-20	1	Nut				
24	25-8640	1	Screw-Machine, 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	19	2412-130	3	Hose Clamp
2	99-3643	1	Hose-Air Intake, Lower				
3	32128-44	6	Nut-Flange				
4	3234-5	3	Screw-Hex. HD. Flange				
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				
13:2	94-3653	1	Bolt				
13:3	94-3654	1	Spring-Compression				
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 (Europe)				
17	32144-4	4	Screw-Hex HD. Thr-D Forming				
18	3234-17	3	Screw-HHF				

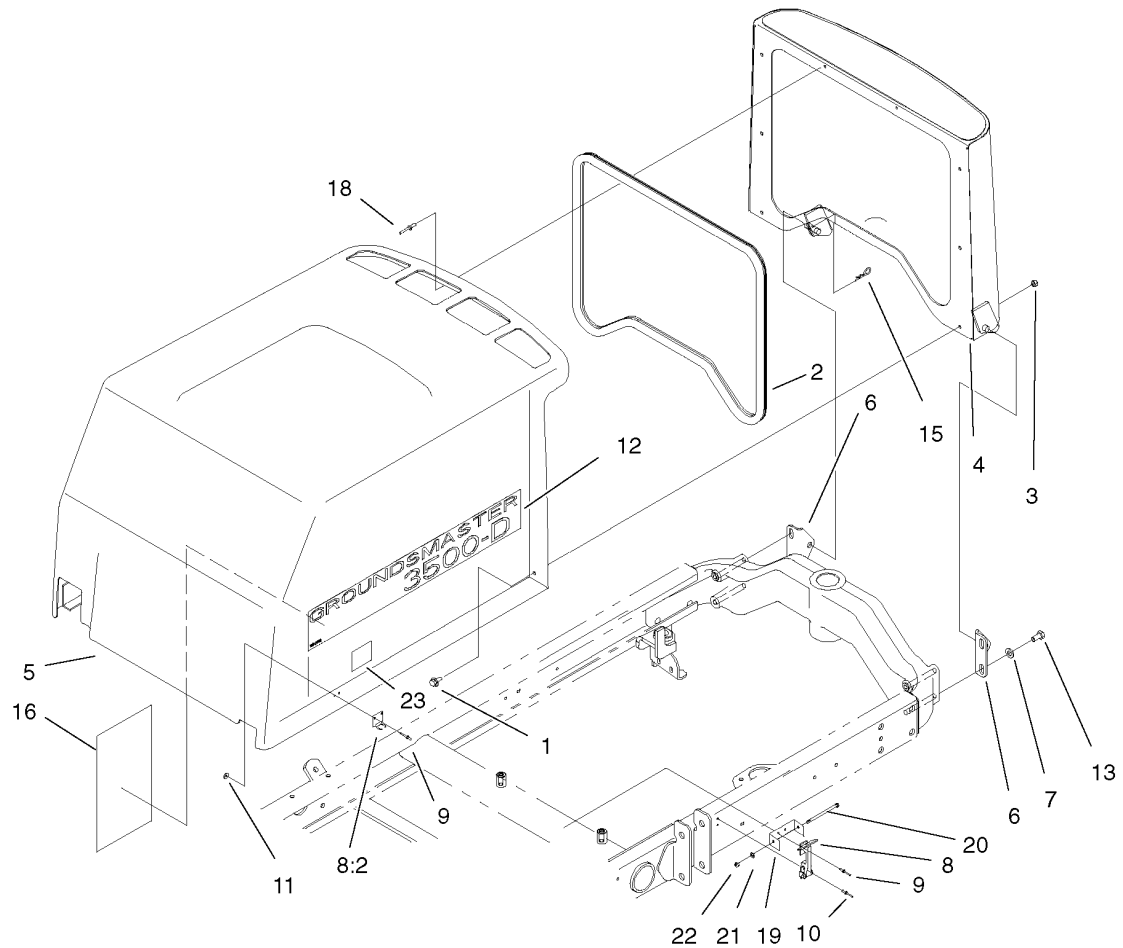


**Water Overflow Bottle
is furnished with engine**

Radiator Assembly

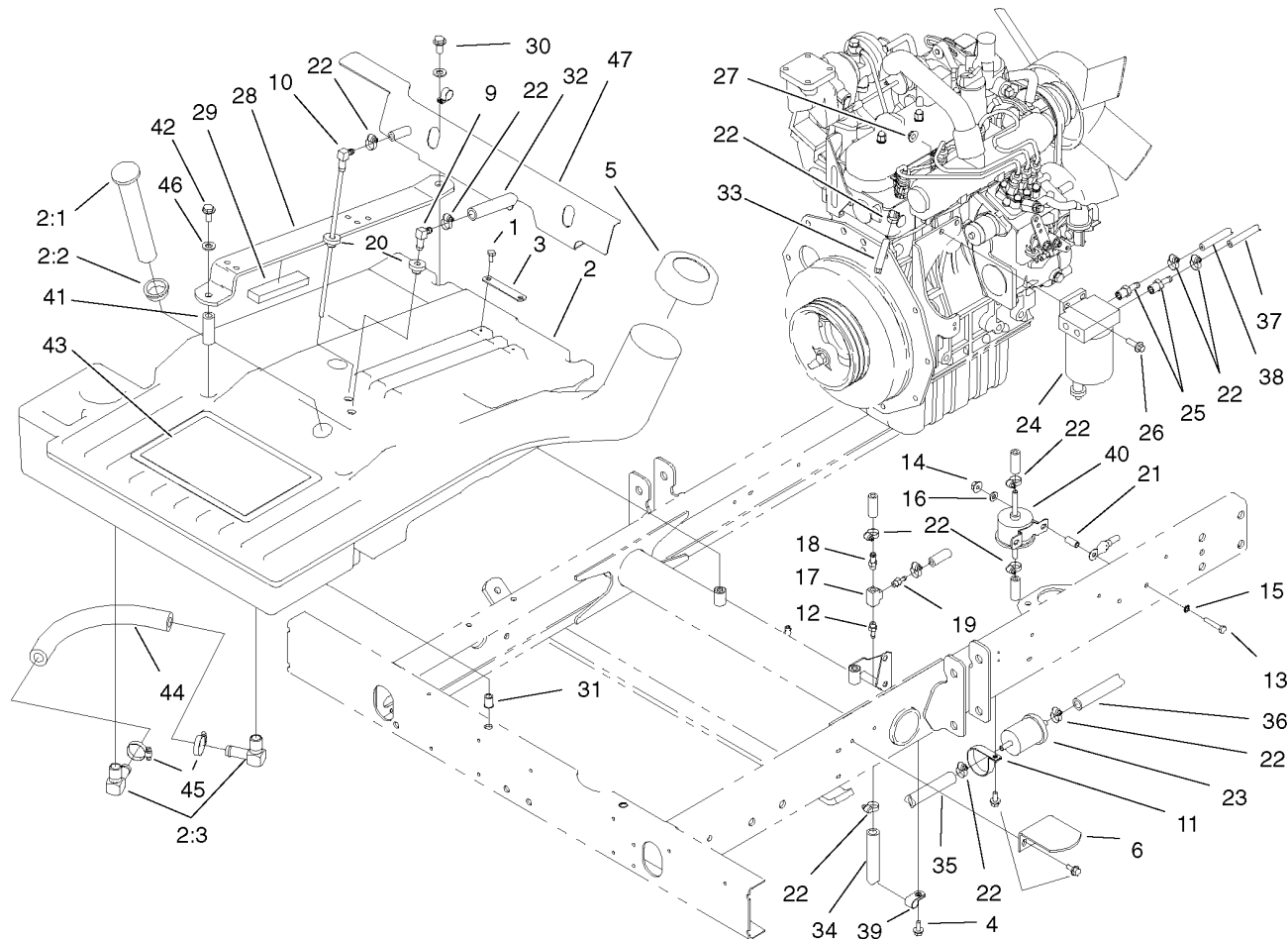
Ref	Part No.	Qty.	Description
1	304-46	1	Drain Cock
2	32104-116	11	Screw-Flange Hex. HD.
3	32128-44	4	Nut-Flange
4	3230-1	4	Bolt-Carriage
5	99-3637	1	Radiator
5:1	93-5957	1	Cap-Radiator
6	100-4885-03	1	Shroud-Fan, Top
7	100-4898-03	1	Shroud-Fan, Bottom
8	3234-1	4	Screw-HHF
9	92-2379	2	Clamp-Hose
10	100-4802-03	1	Frame-Radiator
13	3234-5	2	Screw-Hex. HD. Flange
14	100-4899-03	1	Bracket-Reservoir
20	95-8702-03	1	Frame-Screen, Lower
21	99-3497	1	Catch-Magnetic
22	100-4869	1	Cooler-Oil
23	104-0454	1	Hose-Radiator, Upper
24	100-4809	1	Hose-Radiator, Lower
25	2412-34	6	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
34	32105-13	2	Hex Washer HD. Screw

Ref	Part No.	Qty.	Description
35	63-9640	1	Hose-Fuel
37	100-4924	1	Tube ASM
38	32128-17	2	Locknut
41	93-6681	1	Decal-Warning, Fan
42	32128-20	2	Nut-Flange
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-Hex Lock
50	104-9459	4	Seal-Foam



Hood-Screen Assembly

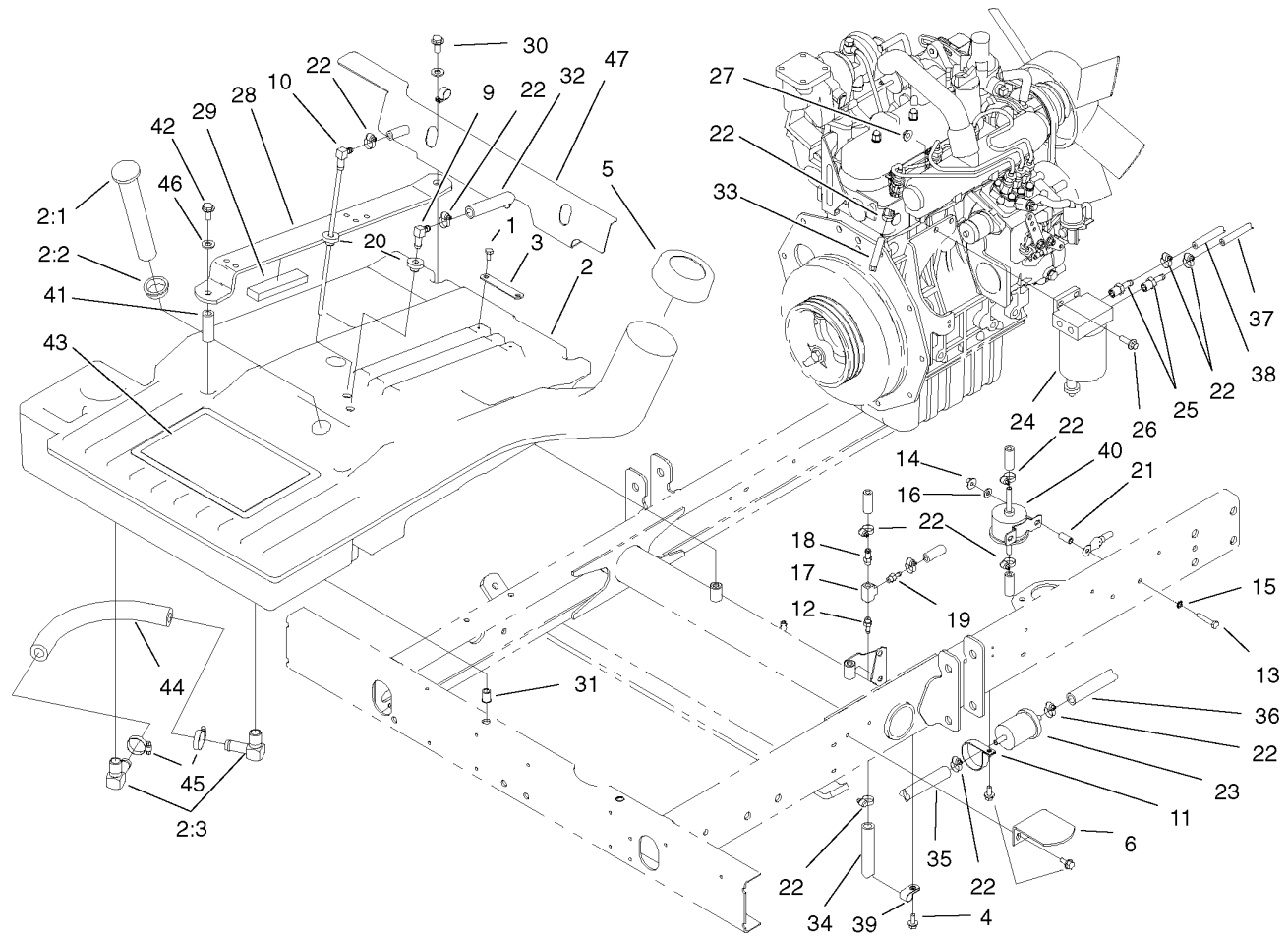
Ref	Part No.	Qty.	Description				
1	3234-4	6	Screw-Sq. HD. Set				
2	100-4932	1	Trim-Seal				
3	3296-42	6	Nut-Lock				
4	100-4847-03	1	Screen-Hood				
5	100-4855	1	Hood				
6	95-8728	2	Bracket-Hood Pivot				
7	3256-24	4	Washer-Flat				
8	59-9740	2	Latch Assembly				
8:2	249-40	1	Keeper-Reverse				
9	98-7310	4	Rivet				
10	3290-55	4	Rivet				
11	3269-10	4	Washer-Backup				
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 3/16 No Ad-66 Bs				
19	99-3568	1	Bracket-Hood Lock (Europe)				
20	321-9	1	Screw-Hex HD. Cap				
21	3256-22	1	Washer-Flat				
22	3296-42	1	Nut-Lock				
23	100-6574	1	Decal-Warning				



Fuel System Assembly

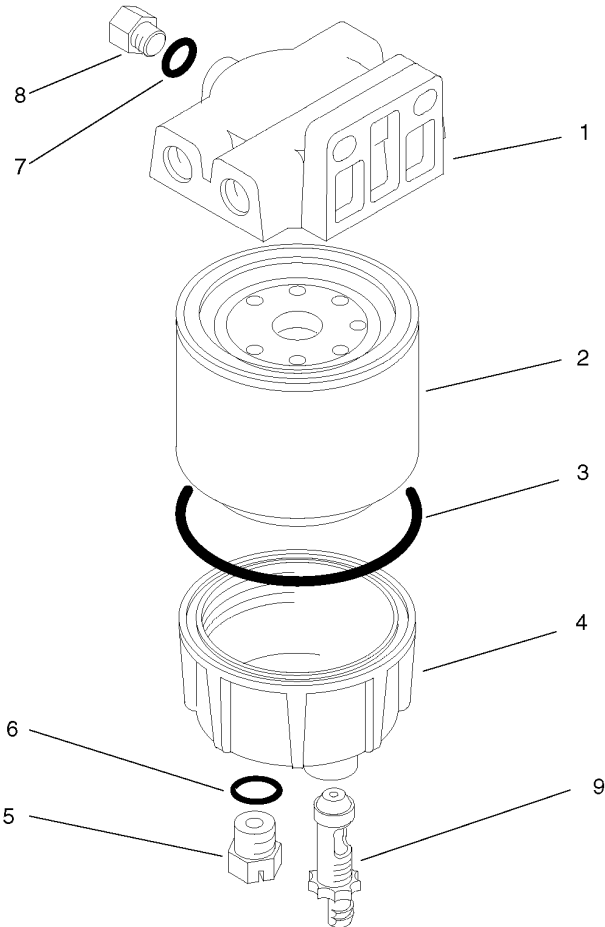
Ref	Part No.	Qty.	Description
1	321-2	2	Screw-HH
2	104-0408	1	Tank-Fuel
2:1	95-8971	1	Fuel-Gauge
2:2	95-8972	1	Grommet
2:3	353-377	2	90 DEG. Barb Hose Stem
3	95-8881	1	Strap-Fuel Line
4	32144-10	4	Screw
5	95-4193	1	Diesel Gas Cap ASM
6	95-8968-03	1	Support-Fuel Tank
9	46-6550	1	Fitting-Fuel 90°
10	66-8121	1	Standpipe
11	2412-148	1	R-Clamp
12	304-73	1	Fitting-Straight Barb
13	321-9	2	Screw-Hex HD. Cap
14	32128-33	2	Nut-Flange
15	3255-7	1	Washer-Lock
16	3256-22	2	Washer-Flat
17	354-20	1	Block
18	354-21	1	Fitting-Fuel
19	354-22	1	Fitting-Fuel
20	46-6560	2	Bushing
21	87-4710	2	Spacer-Parking Brake
22	2412-108	13	Clamp-Worm
23	98-7612	1	Filter-Fuel

Ref	Part No.	Qty.	Description
24	98-9305	1	Filter-Water/Fuel
25	353-783	2	Fitting-Pump
26	3234-17	2	Screw-HHF
27	32128-44	2	Nut-Flange
28	104-0467-03	2	Strap-Support, Seat
29	95-8896	2	Foam
30	3234-11	2	Screw-HHF
31	32148-9	2	Insert-Threaded
32	71-3380	1	Hose-Fuel
33	99-3498	1	Hose
34	99-3185	1	Line-Fuel
35	71-3383	1	Hose-Fuel
36	19-3250	1	Hose
37	63-9640	1	Hose-Fuel
38	104-4857	1	Hose-Fuel
39	2412-73	1	"r"clamp
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 (Europe)
44	104-0465	1	Hose
45	2412-129	2	Clamp-Hose
46	3256-24	2	Washer-Flat



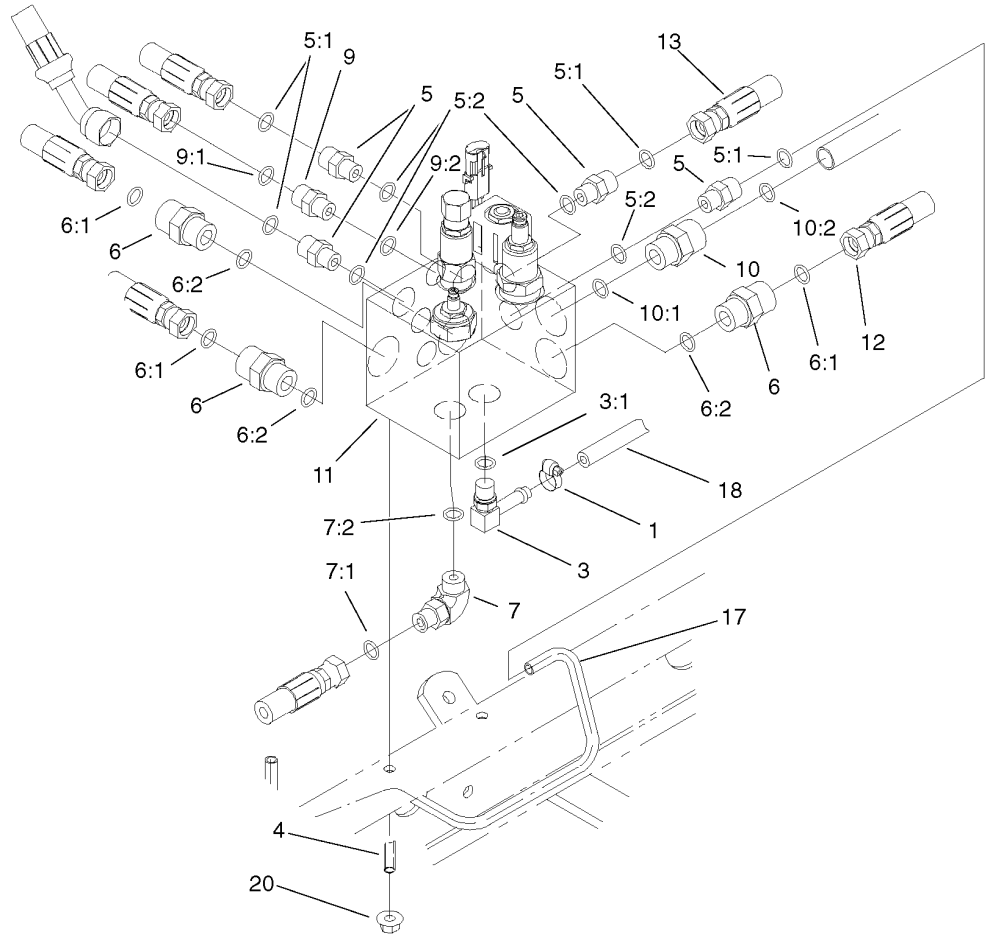
Fuel System Assembly (continued)

Ref	Part No.	Qty.	Description
47	104-4833-03	1	Shield-Heat



Water / Fuel Filter Assembly No. 98-9305

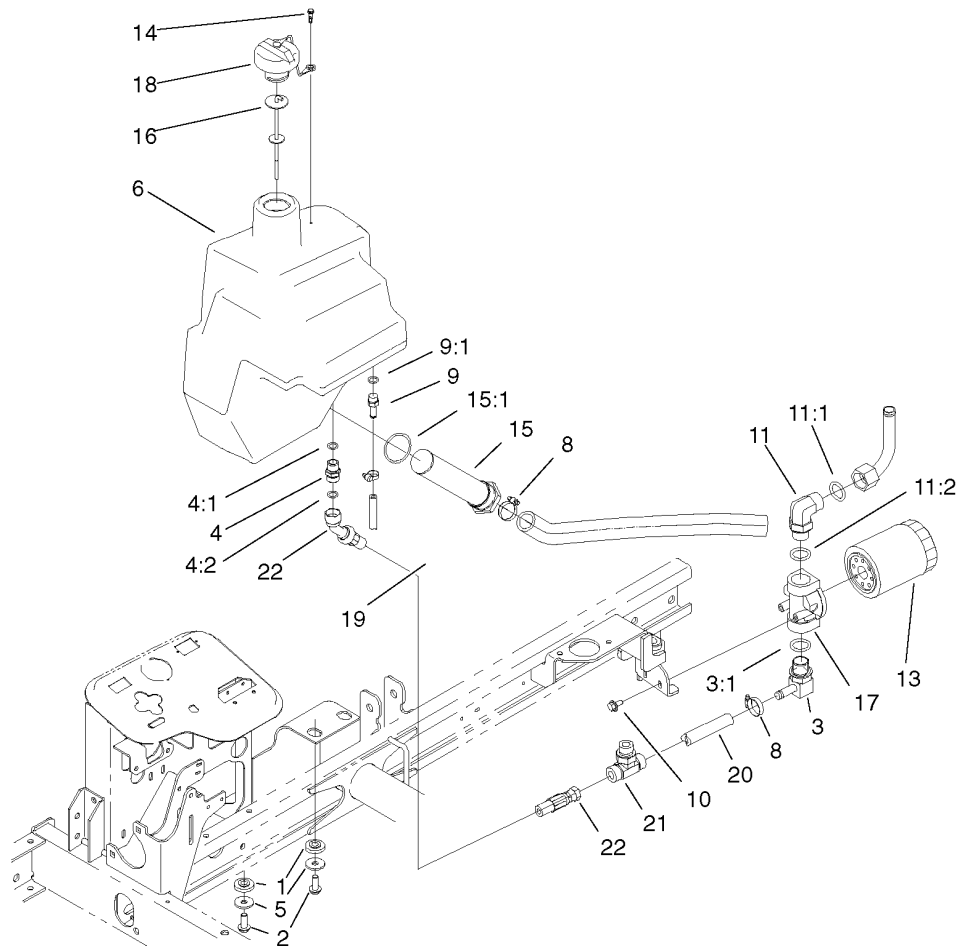
Ref	Part No.	Qty.	Description				
1	98-9772	1	Head-Filter				
2	98-9764	1	Element-On, Spin				
3	98-9774	1	O-Ring-Base, Filter				
4	98-9775	1	Base-Filter				
5	98-9773	1	Plug-Base, Filter				
6	237-42	1	O-Ring				
7	237-78	1	"o"ring				
8	98-9776	1	Plug-Filter, Head				
9	98-9777	1	Drain Valve ASM				



Manifold Block Installation Assembly

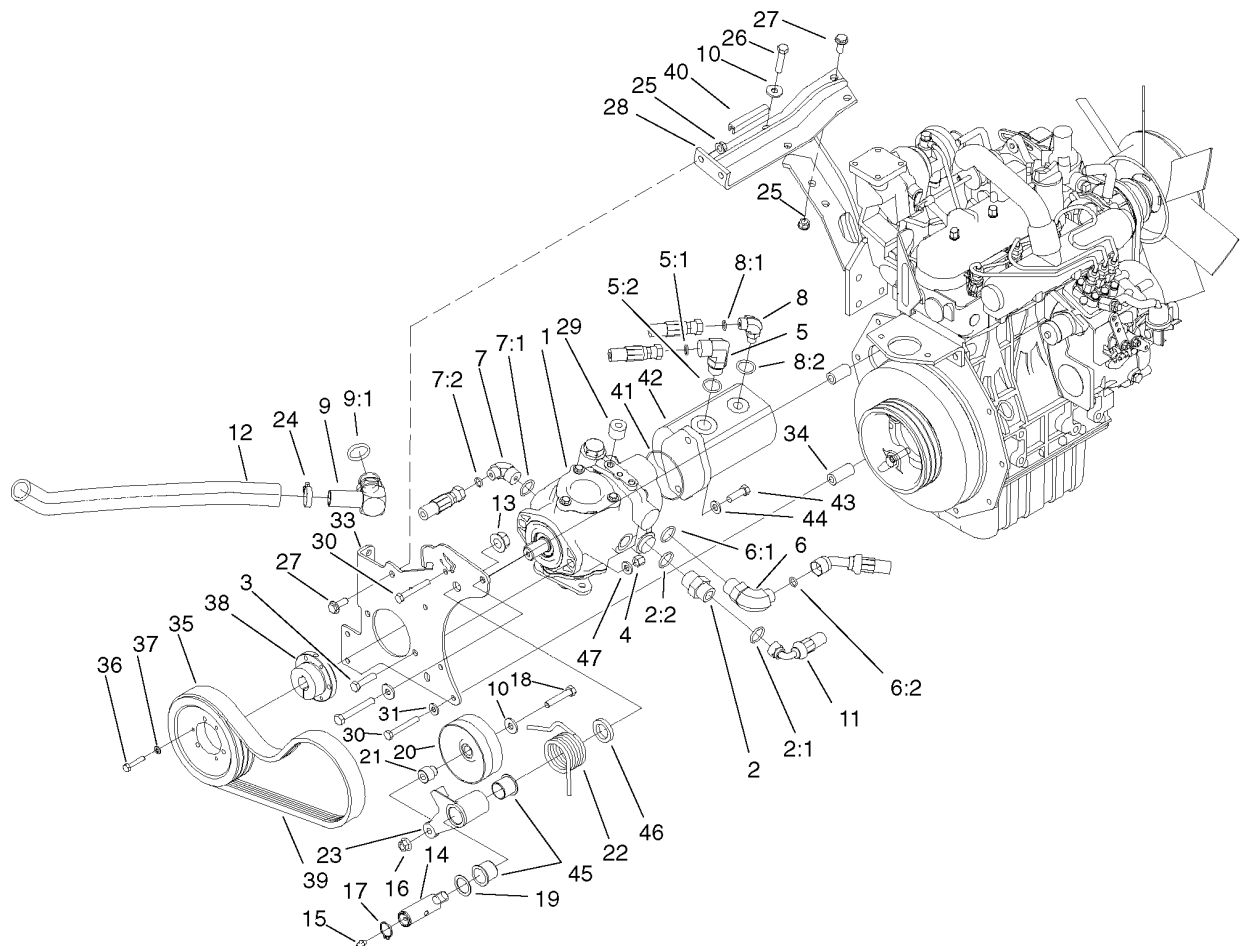
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	2412-36	1	Clamp	18	80-7342	1	Hose-Water
3	100-4887	1	Fitting-Barb	20	32128-20	2	Nut-Flange
3:1	237-42	1	O-Ring				
4	104-0430	2	Stud				
5	340-2	4	Adapter				
5:1	237-22	1	O-Ring				
5:2	237-42	1	O-Ring				
6	340-7	3	Adapter				
6:1	237-65	1	O-Ring				
6:2	237-80	1	O-Ring				
7	340-77	1	Fitting-HYD., 90°				
7:1	237-22	1	O-Ring				
7:2	237-42	1	O-Ring				
9	340-88	1	Fitting-Hydraulic, Straight (Incl. Ref. No.18 And 31)				
9:1	237-22	1	O-Ring				
9:2	237-78	1	"o"ring				
10	340-66	1	Fitting-Hydraulic				
10:1	237-80	1	O-Ring				
10:2	237-58	1	O-Ring				
11	100-4826	1	Manifold Block ASM				
12	104-0488	1	Hose ASM				
13	100-4889	1	Hose ASM				
17	100-4827	1	Tube ASM				

31



Hydraulic Tank Assembly

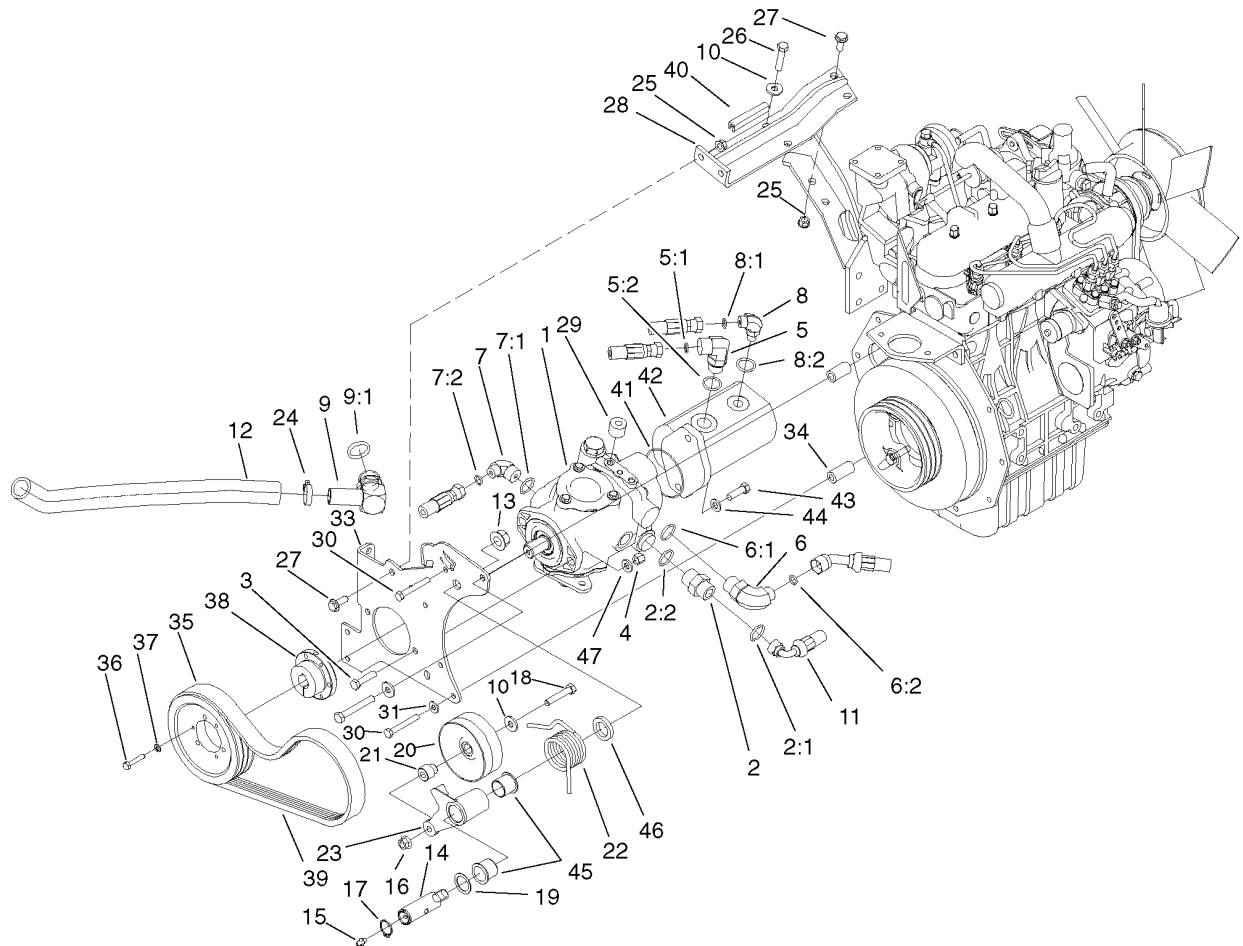
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	240-11	4	Grommet-Mount, Tank	19	2412-36	1	Clamp
2	3234-11	4	Screw-HHF	20	104-0486	1	Hose ASM
3	353-987	1	Elbow	21	104-4836	1	Fitting-Tee
3:1	237-81	1	O-Ring	22	104-0487	1	Hose ASM
4	100-4890	1	Fitting-Check				
4:1	237-79	1	"o"ring				
4:2	237-30	1	O-Ring				
5	63-8410	4	Washer-Lock				
6	104-4840	1	Tank-Hydraulic				
8	2412-34	2	Clamp-Hose				
9	353-979	1	Fitting-Hydraulic, Barbed				
9:1	237-42	1	O-Ring				
10	3234-13	2	Screw-Hex Flange HD.				
11	340-142	1	Fitting-Elbow, Hydraulic (Incl. Ref. No.9 And 11)				
11:1	237-58	1	O-Ring				
11:2	237-81	1	O-Ring				
13	86-3010	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 Assembly-Oil				
17	92-5821	1	Filter Head ASM				
18	93-7160	1	Cap-HYD Oil				



Hydrostat Assembly

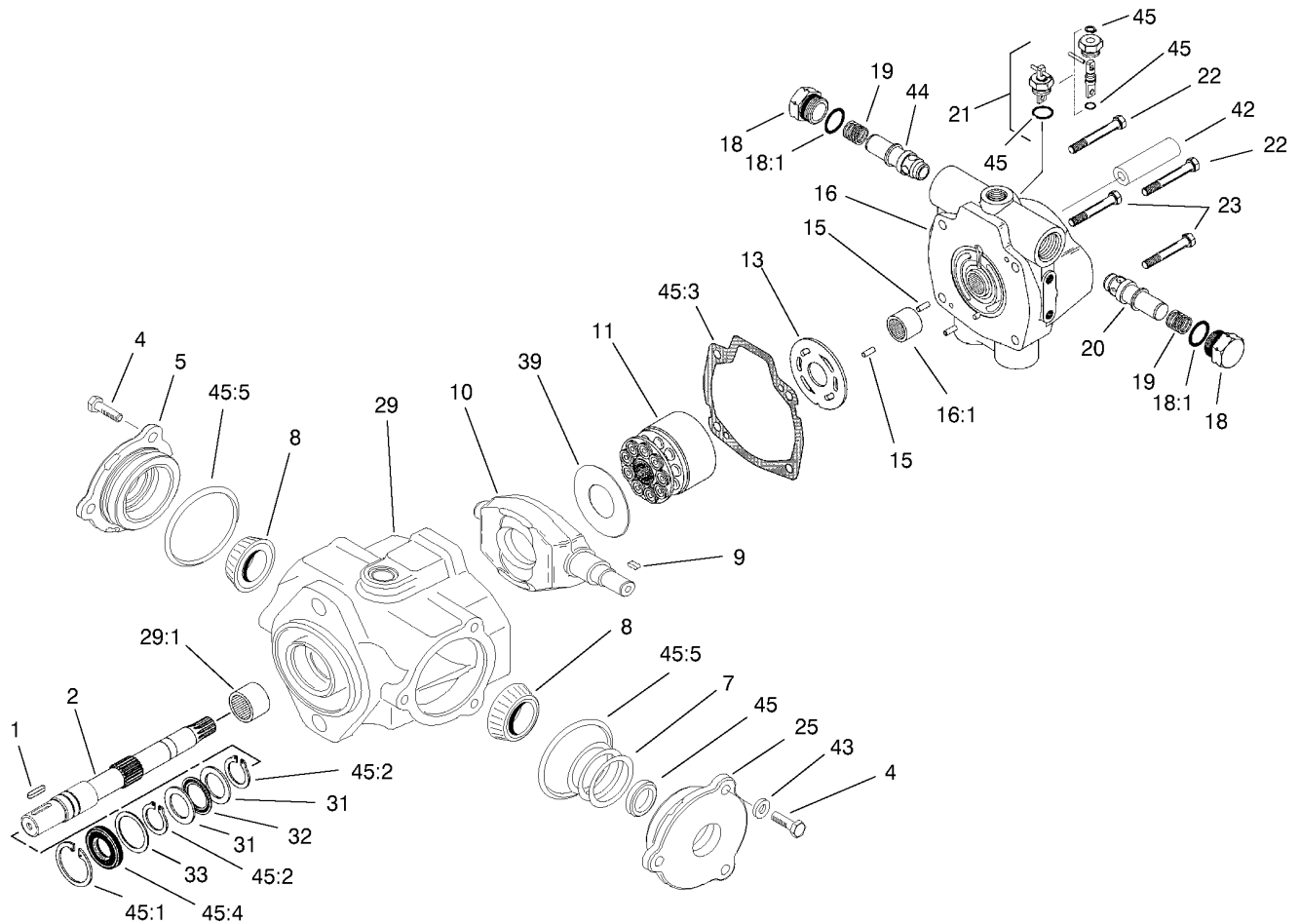
Ref	Part No.	Qty.	Description
1	104-4832	1	Pump-Piston
2	340-8	1	Fitting-Adapter (Incl. Ref. No.5 And 13)
2:1	237-65	1	O-Ring
2:2	237-81	1	O-Ring
3	323-8	2	Screw-HH
4	3296-39	2	Nut-Lock, NI
5	340-17	1	Ftg-HYD 90
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-139	1	Fitting-Hydraulic (Incl. Ref. No.5 And 13)
6:1	237-81	1	O-Ring
6:2	237-65	1	O-Ring
7	340-18	1	Fitting
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-HYD Barb, 90Ø
9:1	237-81	1	O-Ring
10	80-6990	3	Washer-Hardened
11	105-1214	1	Hose ASM

Ref	Part No.	Qty.	Description
12	104-5486	1	Hose
13	32128-54	1	Nut-Flange
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-Cap Hex. HD.
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
27	3234-11	4	Screw-HHF
28	99-3436-03	1	Pump Support Assembly
29	99-3440	2	Spacer
30	33114-060	4	Screw-HH
31	87-8640	3	Washer-Flat, Hardened
33	95-8933-03	1	Plate-Pump, Mount
34	95-8941	4	Spacer-Mount, Pump
35	99-3620	1	Pulley-3V, Pump
36	321-13	3	Screw-Hex HD. Cap



Hydrostat Assembly (continued)

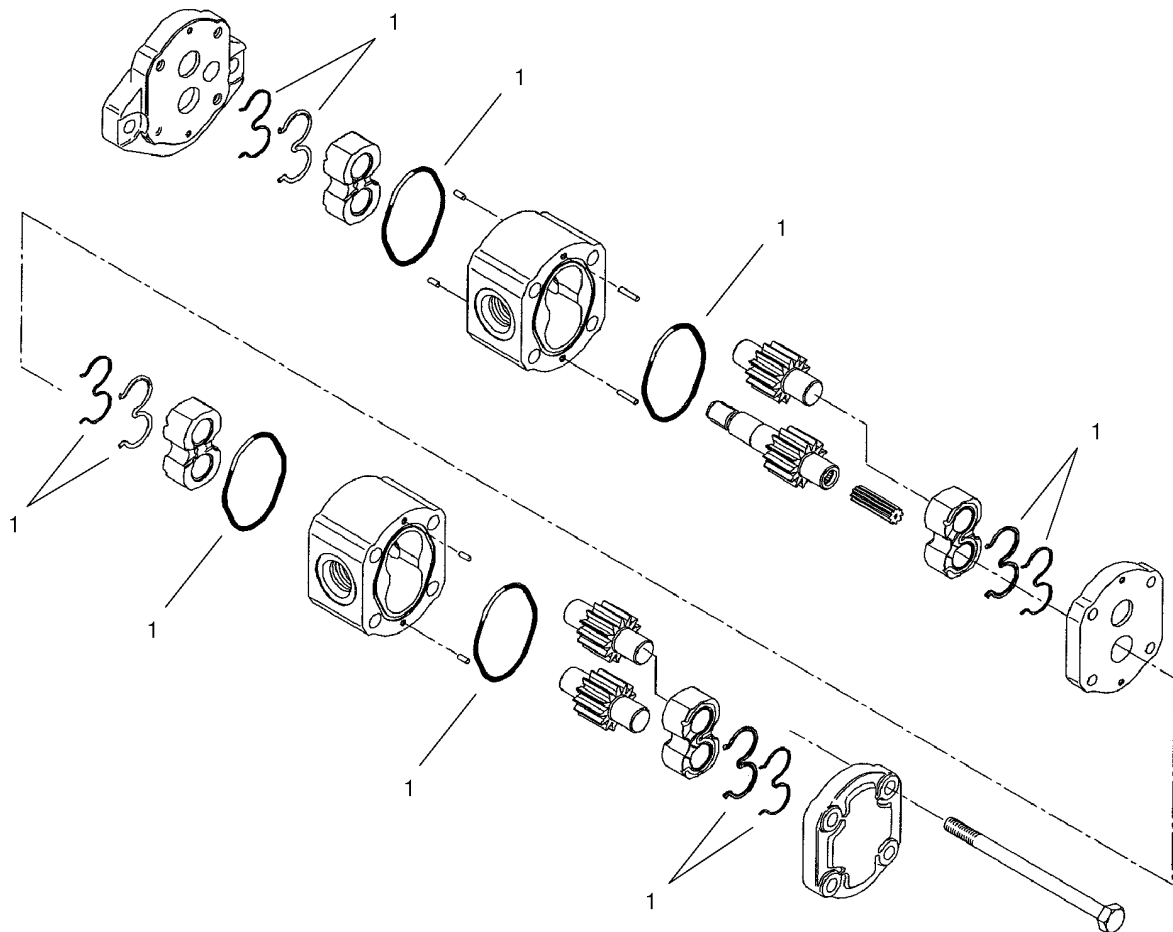
Ref	Part No.	Qty.	Description
37	3253-3	3	Washer-Lock
38	100-4813	1	Bushing-Lock, Taper
39	99-3619	1	Belt-3V
40	70-2041	1	Trim
41	353-949	1	O-Ring
42	100-1646	1	Hydraulic Pump ASM
43	323-7	2	Screw-HH
44	3256-24	2	Washer-Flat
45	99-3631	2	Bushing-Flange
46	99-3625	1	Spacer-Arm, Idler
47	100-4852	2	Washer-Hardened



Piston Pump Assembly No. 104-4832

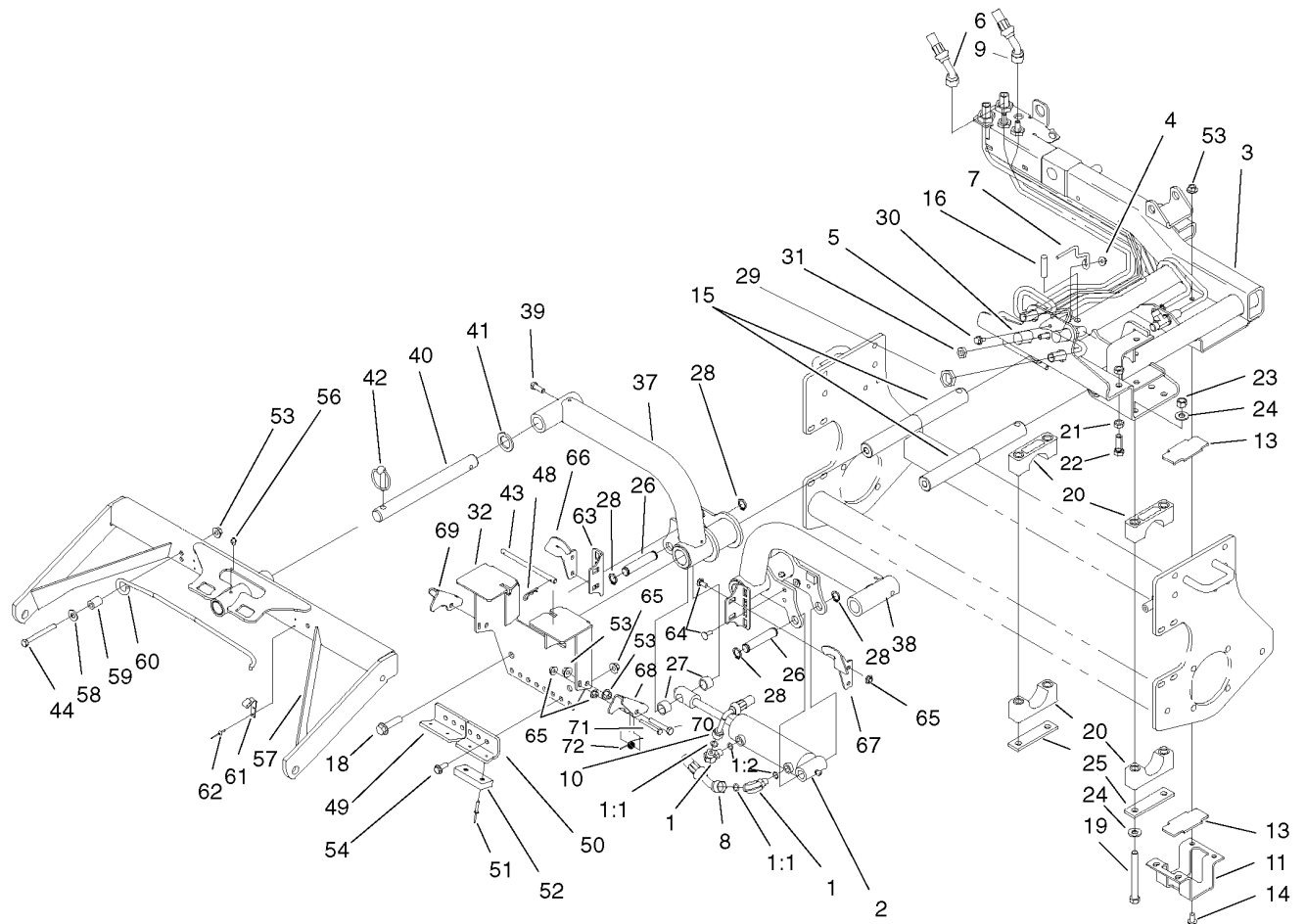
Ref	Part No.	Qty.	Description
1	94-3645	1	Key
2	94-6359	1	Shaft-Drive
4	98-4640	6	Screw-Cap
5	98-4633	1	Cover Plate Assembly
7	100-3182	1	Kit-Shim
8	98-4639	2	Bearing-Cone
9	94-3646	1	Key
10	99-3520	1	Plate-Cam
11	76-6070	1	Rotating Kit ASM
13	104-0429	1	Plate-Cam
15	76-6150	2	Pin-Dowel
16	100-3177	1	Back Plate ASM
16:1	94-6368	1	Bearing
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
22	76-6170	2	Capscrew
23	76-6160	2	Capscrew
25	98-4645	1	Cover Plate ASM
29	100-3176	1	Housing ASM
29:1	94-6363	1	Bearing
31	252-71	2	Bearing-Thrust

Ref	Part No.	Qty.	Description
32	252-66	1	Bearing-Thrust
33	33-3720	1	Washer
39	98-4635	1	Insert-Plate, Cam
42	74-9040	1	Coupler
43	95-6055	6	Washer
44	104-4837	1	Relief Valve ASM
45	98-4636	1	Seal Repair Kit (Incl. Ref. No.6, 12, 17, 30, 34-38 And 40-41)
45:1	32151-13	1	Ring-Snap, Internal
45:2	32151-29	1	Ring-Snap, External
45:3	33-4930	1	Gasket-Housing
45:4	42-2720	1	Seal-External
45:5	100-3179	1	O-Ring



Hydraulic Pump Assembly No. 100-1646

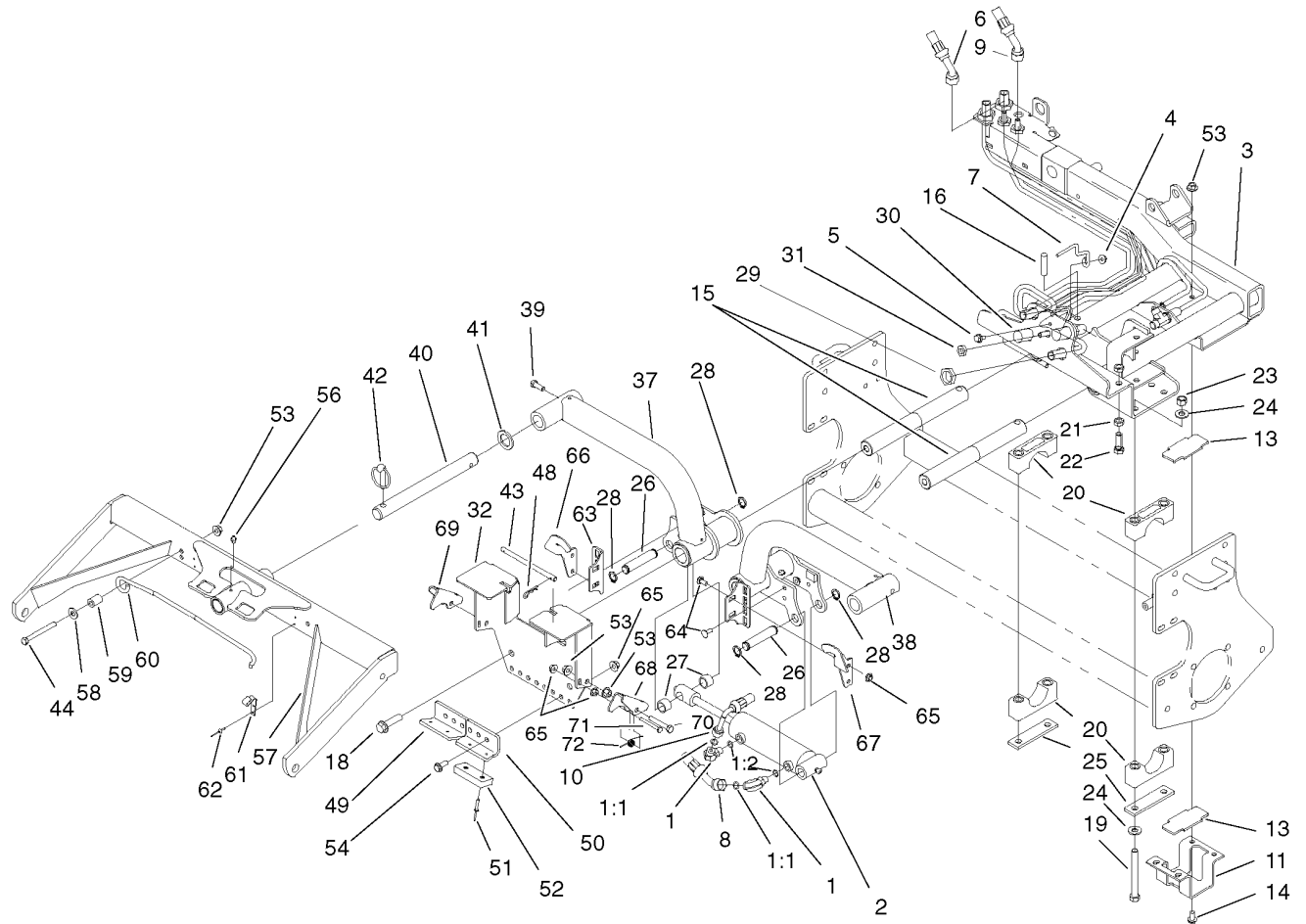
Ref	Part No.	Qty.	Description
1	104-4226	1	Kit-Seal



Carrier Assembly

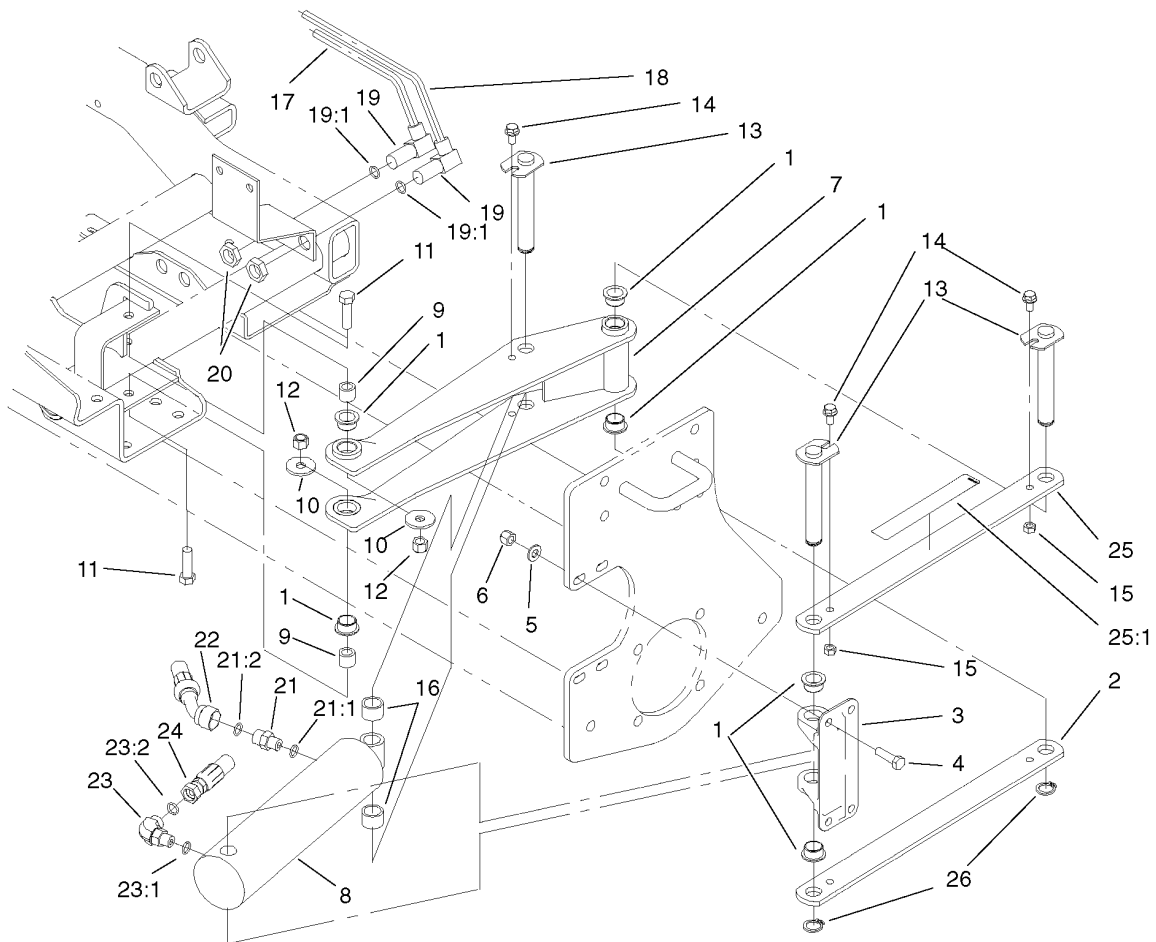
Ref	Part No.	Qty.	Description
1	340-77	2	Fitting-HYD., 90°
1:1	237-22	1	O-Ring
1:2	237-42	1	O-Ring
2	95-8978	1	Cylinder-Hydraulic
3	100-4939-03	1	Sidewinder Carrier ASM
4	32128-33	1	Nut-Flange
5	3234-4	1	Screw-Sq. HD. Set
6	95-8822	1	Hose Assembly
7	99-3433	1	Wire-Centering (Model 03201)
8	104-0405	1	Hose ASM
9	95-8821	1	Hose Assembly (Model No. 03201)
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 (Model No. 03201)
20	95-8609	8	Cap-Bearing (Model No. 03201)
21	3218-5	4	Nut-Jam
22	325-6	2	Screw-Hex HD. Cap
23	3296-23	8	Nut-Lock

Ref	Part No.	Qty.	Description
24	87-7270	16	Washer-Thrust
25	99-3373	4	Bar-Support, Slide (Model No. 03201)
26	95-8575	2	Pin
27	75-9590	2	Spacer
28	32120-93	4	Snap Ring
29	340-74	4	Locknut-Bulkhead
30	99-3640	1	Tube ASM
31	340-78	1	Nut-Bulkhead
32	104-4820-03	1	Bracket-Carrier Stop
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-Cu, Pivot
41	3-6781	2	Washer-Thrust
42	283-71	2	Pin-Lynch
43	104-0472	1	Rod
44	323-15	2	Screw-Hex HD. Cap
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



Carrier Assembly (continued)

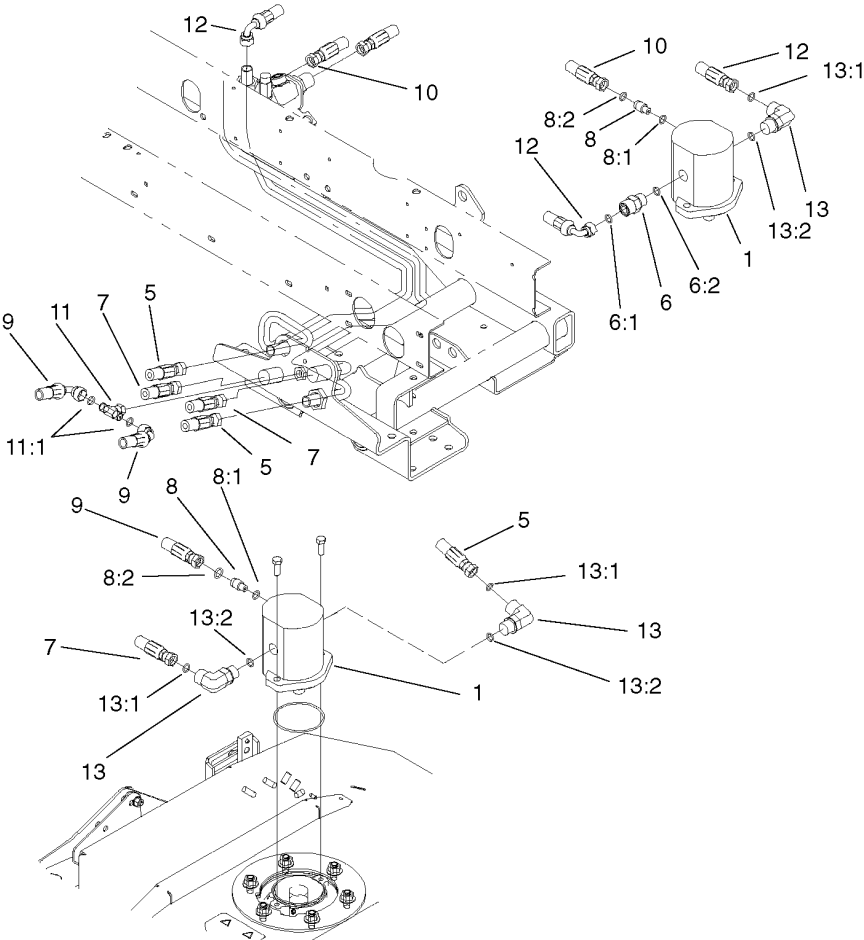
Ref	Part No.	Qty.	Description				
54	3234-11	4	Screw-HHF				
56	302-5	2	Fitting-Grease				
57	104-4230	2	Front Carrier Frame ASM				
58	3256-4	2	Washer-Flat				
59	104-4613	2	Tube-Latch				
60	104-4612	2	Rod-Latch				
61	104-4237	2	Clip-Rod				
62	3290-271	4	Rivet-Pop				
63	104-4828-03	2	Bracket-Actuator				
64	3230-23	8	Screw-CARR				
65	32128-44	12	Nut-Flange				
66	104-4826-03	1	Actuator, RH				
67	104-4827-03	1	Actuator, LH				
68	104-4819-03	1	Bracket-Pivot, LH				
69	104-4825-03	1	Bracket-Pivot, RH				
70	323-11	2	Screw-Hex HD. Cap				
71	322-11	2	Screw-HH				
72	104-4821	2	Spring-Torsion				



Scissor Assembly

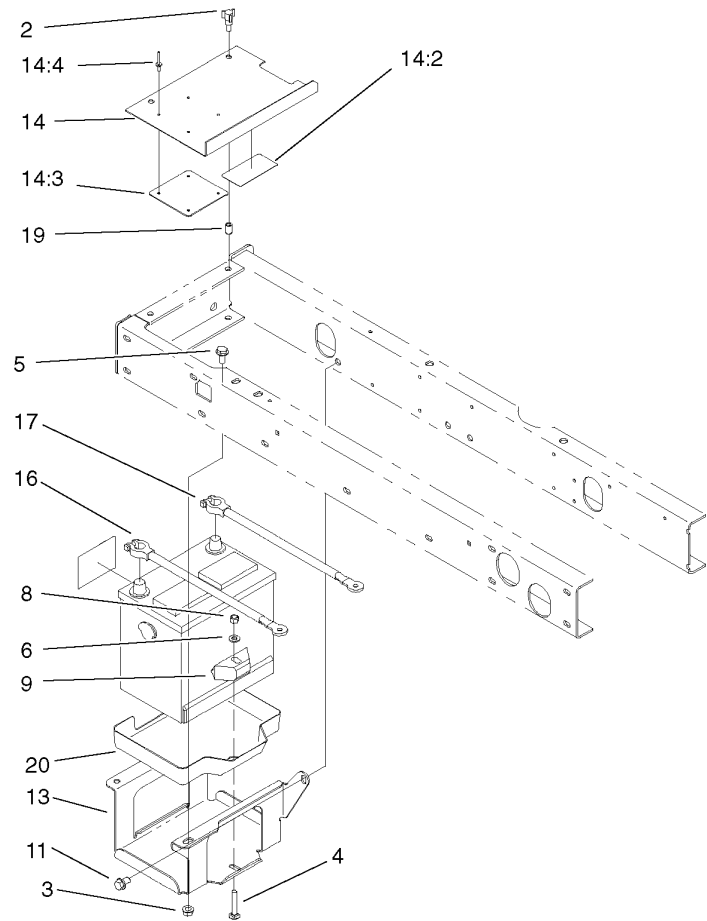
Ref	Part No.	Qty.	Description
1	95-8526	6	Bushing-Plastic
2	95-8527-03	1	Link-Scissor (Incl. Ref. No.25)
3	95-8883	1	Mount-Scissor
4	323-7	4	Screw-HH
5	3256-24	4	Washer-Flat
6	3296-39	4	Nut-Lock, NI
7	95-8521-03	1	Scissor Frame
8	95-8512	1	Cylinder-Hydraulic
9	95-8603	2	Spacer
10	87-5330	2	Washer-Flat
11	324-6	2	Capscrew
12	3296-48	2	Nut-Lock
13	95-8529	3	Pin-Welded
14	3234-14	3	Screw
15	32152-1	3	Nut-Lock
16	46-6350	2	Spacer
17	95-8790	1	Tube Assembly
18	95-8791	1	Tube Assembly
19	340-154	2	Fitting-Hydraulic, 90No. (Incl. Ref. No.26)
19:1	237-22	2	O-Ring
20	340-70	2	Locknut-Bulkhead
21	85-9720	1	Fitting-Hydraulic, Straight (Incl. Ref. No.27 And 28)

Ref	Part No.	Qty.	Description
21:1	237-78	1	"o"ring
21:2	237-21	1	O-Ring
22	95-8838	1	Hose
23	340-132	1	90 Elbow
23:1	237-78	1	"o"ring
23:2	237-21	1	O-Ring
24	95-8839	1	Hose
25	99-3505	1	Link-Scissor (Incl. Ref. No.25)
25:1	94-3353	1	Decal-Pinch Point
26	32120-93	2	Snap Ring



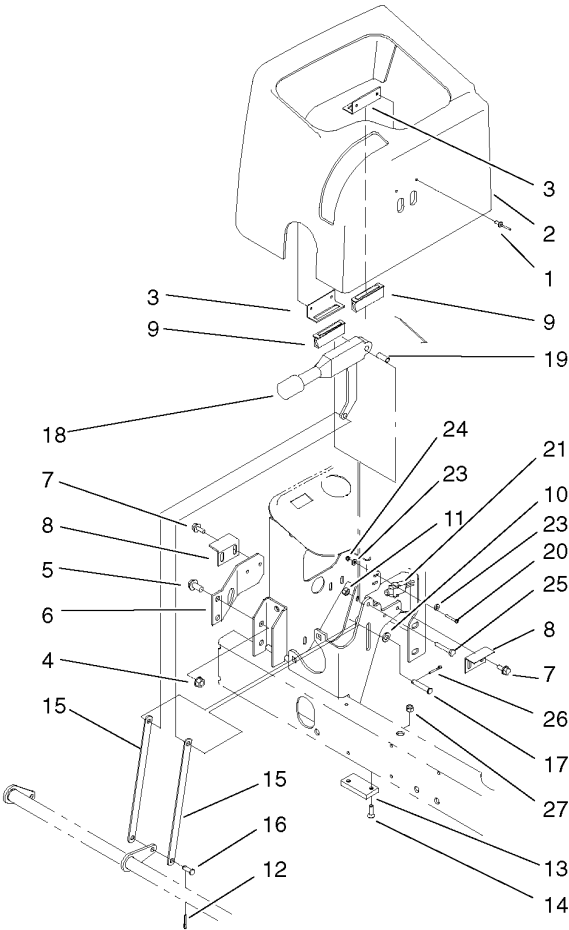
Deck Motor Assembly

Ref	Part No.	Qty.	Description				
1	99-6104	3	Motor-Hydraulic				
2:1:2	99-6105	1	Seal Kit				
2:1:3	98-5185	1	Back Flange/Valve Kit				
2:1:4	98-5191	1	Relief Valve Kit				
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				
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-Hydraulic, Tee (Incl. Ref. No.19)				
11:1	237-42	2	O-Ring				
12	100-4880	2	Hose ASM				
13	340-17	5	Ftg-HYD 90				
13:1	237-65	1	O-Ring				
13:2	237-80	1	O-Ring				



Battery Assembly

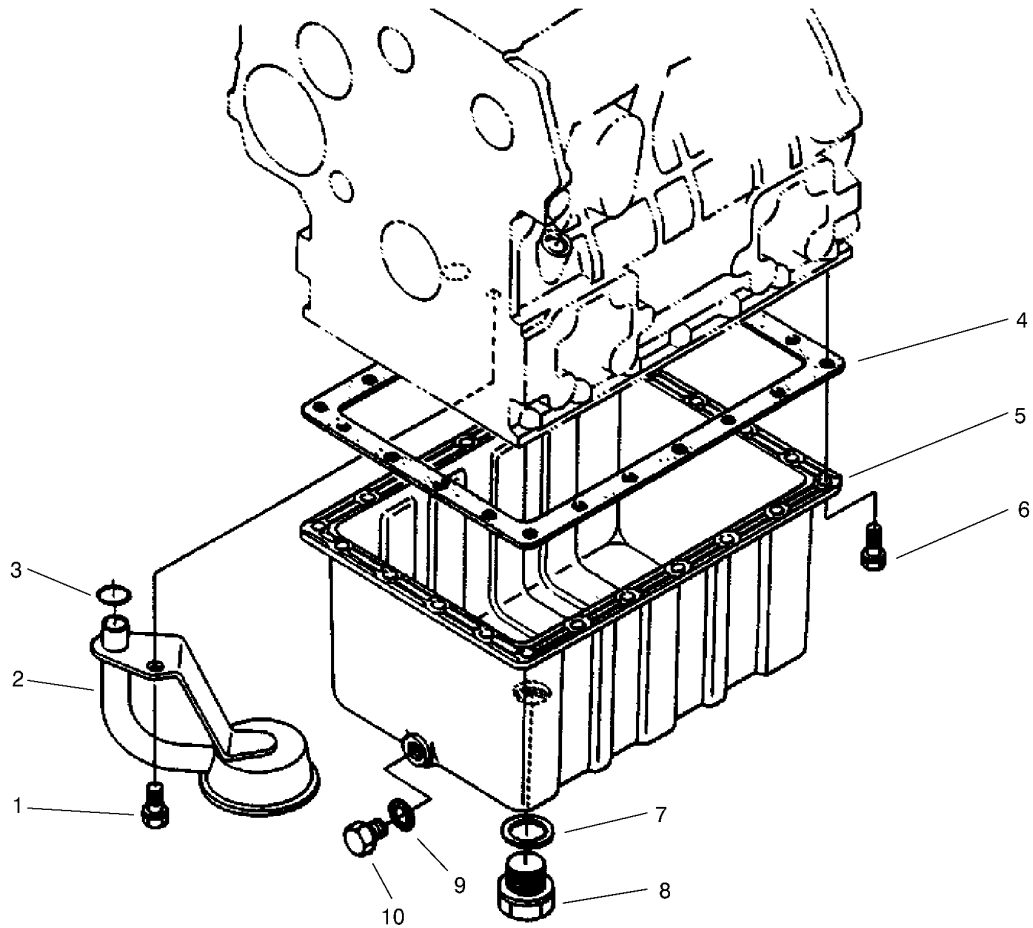
Ref	Part No.	Qty.	Description				
2	233-70	2	Knob				
3	32128-43	3	Nut-Flange				
4	3230-6	1	Screw-CARR				
5	3234-1	3	Screw-HHF				
6	3256-23	1	Washer-Flat				
8	3296-29	1	Nut-Lock, NI				
9	66-2490	1	Retainer-Battery				
11	32144-15	1	Screw				
13	95-8796-03	1	Support-Battery				
14	99-3602	1	Cover-Battery (Incl. Ref. No.22)				
14:2	93-7276	1	Decal-Danger				
14:3	87-7620	1	Shield-Battery Cover				
14:4	3269-27	4	Rivet-Plastic				
16	95-8853	1	Cable-Battery, Positive				
17	95-8854	1	Cable-Battery, Negative				
19	32148-6	2	Insert-Threaded				
20	99-3513	1	Tray-Battery				



Parking Brake Assembly

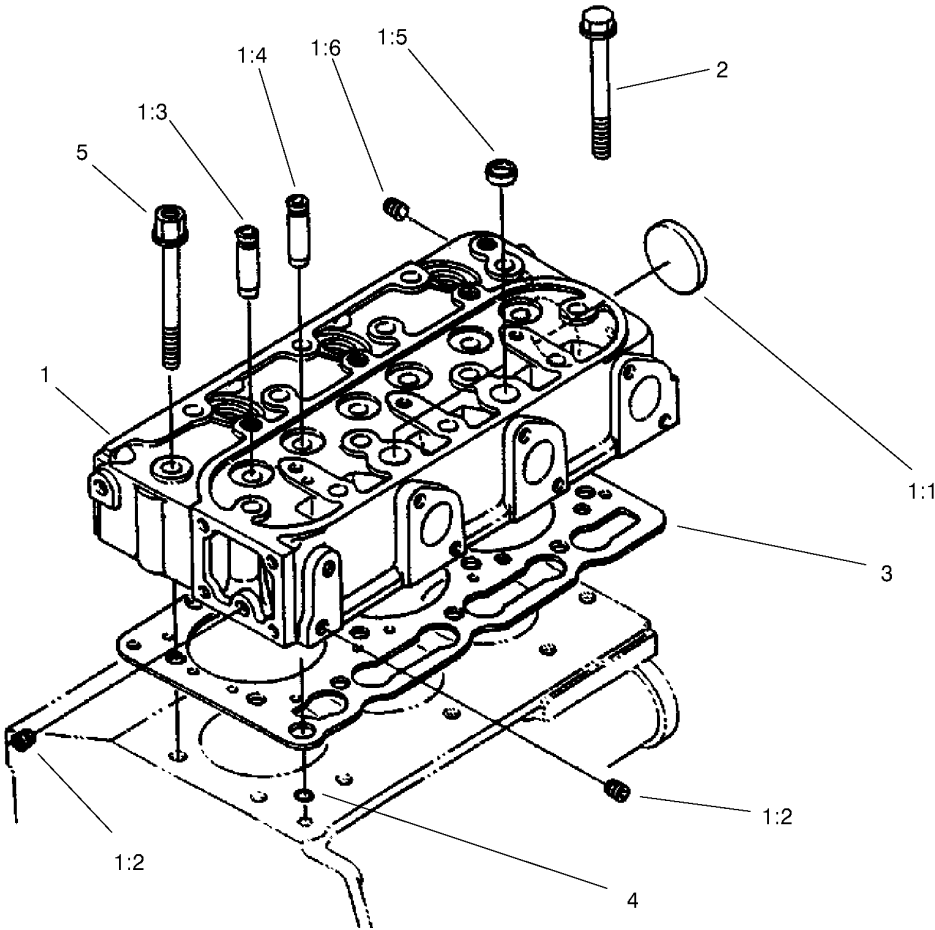
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	3269-5	4	Rivet-Pop	25	321-10	1	Bolt
2	95-8707	1	Cover-Control Panel	26	3272-6	1	Pin-Cotter
3	95-8763	2	Bracket-Cover	27	32128-32	2	Nut-Flange
4	32128-43	2	Nut-Flange				
5	3234-1	2	Screw-HHF				
6	95-8764-03	1	Support-Magnet				
7	32144-10	4	Screw				
8	95-8765	2	Bracket-Strike				
9	58-4250	2	Magnet				
10	3256-23	1	Washer-Flat				
11	3296-42	1	Nut-Lock				
12	3272-10	1	Pin-Cotter				
13	95-8684	1	Pad-Bumper				
14	3289-4	2	Screw-HSFH				
15	104-4628-03	2	Link-Brake, Parking				
16	283-62	1	Pin-Clevis (Only On: 72042, 72062)				
17	94-3829	1	Pin-Clevis				
18	104-4817	1	Lever-Brake				
19	87-4710	1	Spacer-Parking Brake				
20	32105-9	2	Screw-Pan HD.				
21	95-8900	1	Switch				
23	3256-21	4	Washer-Flat				
24	3296-9	2	Nut				





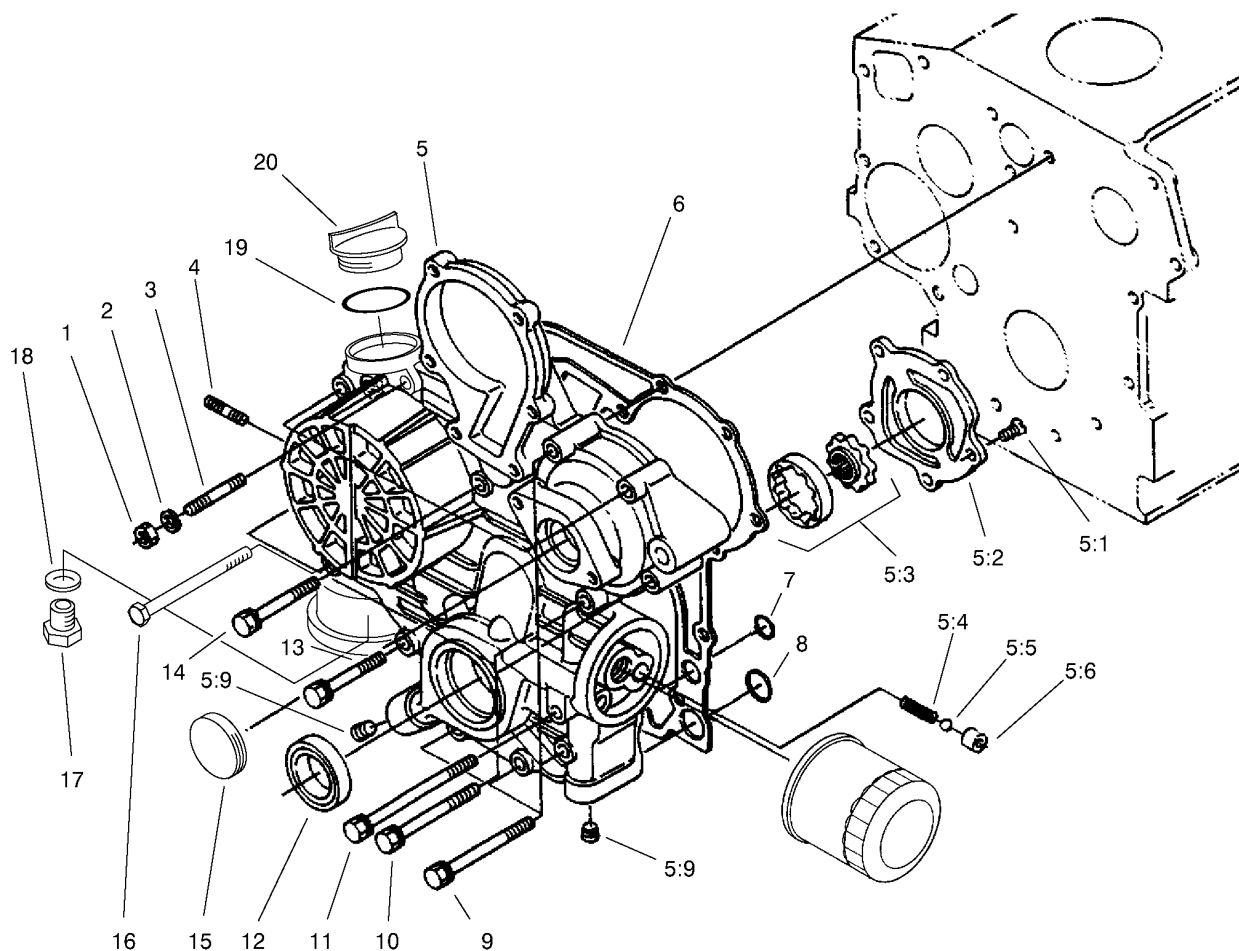
Oil Pan Assembly

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	Pan-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

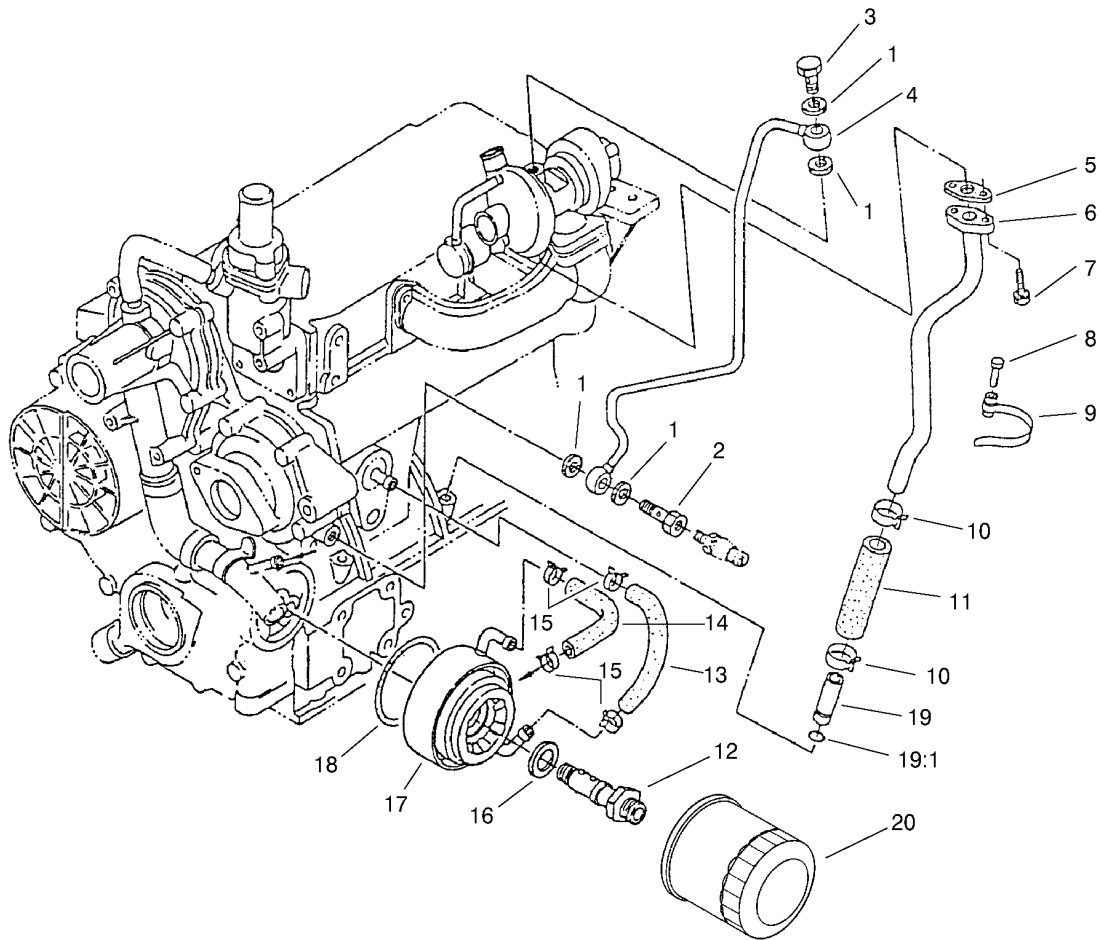
Ref	Part No.	Qty.	Description				
1	99-8344	1	ASM-Cylinder Head (Incl. Ref. No.5-7, 9 And11)				
1:1	98-9395	1	Cap-Sealing				
1:2	98-7540	2	Cap-Sealing				
1:3	98-9499	3	Guide-Valve, Inlet				
1:4	98-9500	3	Guide-Valve, Exhaust				
1:5	98-9389	2	Cap-Sealing				
1:6	98-9444	1	Plug				
2	98-9479	12	Bolt-Head, 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

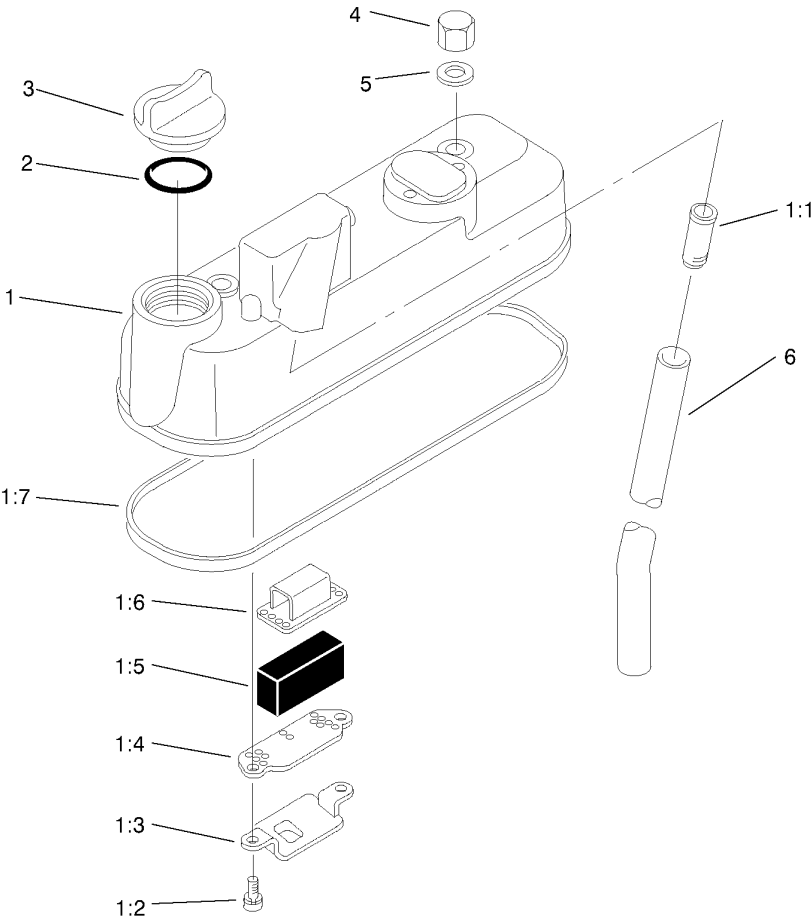
Ref	Part No.	Qty.	Description
1	98-7572	1	Nut
2	98-9367	1	Washer-Spring
3	98-9363	1	Stud
4	98-9362	2	Stud
5	99-3462	1	ASM-Case, Gear (Incl. Ref. No. 7-9, 12-14 And 16-18)
5:1	98-9592	5	Screw
5:2	98-9541	1	Cover-Pump, Oil
5:3	98-9540	1	Oil Pump Rotor ASM
5:4	98-9544	1	Spring
5:5	98-9380	1	Ball
5:6	98-9543	1	Seal-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-Gear Case
16	99-3511	1	Bolt

Ref	Part No.	Qty.	Description
17	99-3450	2	Plug
18	99-3451	1	Packing-Plug
19	98-7430	1	O Ring
20	98-9449	1	Plug-Filler, Oil



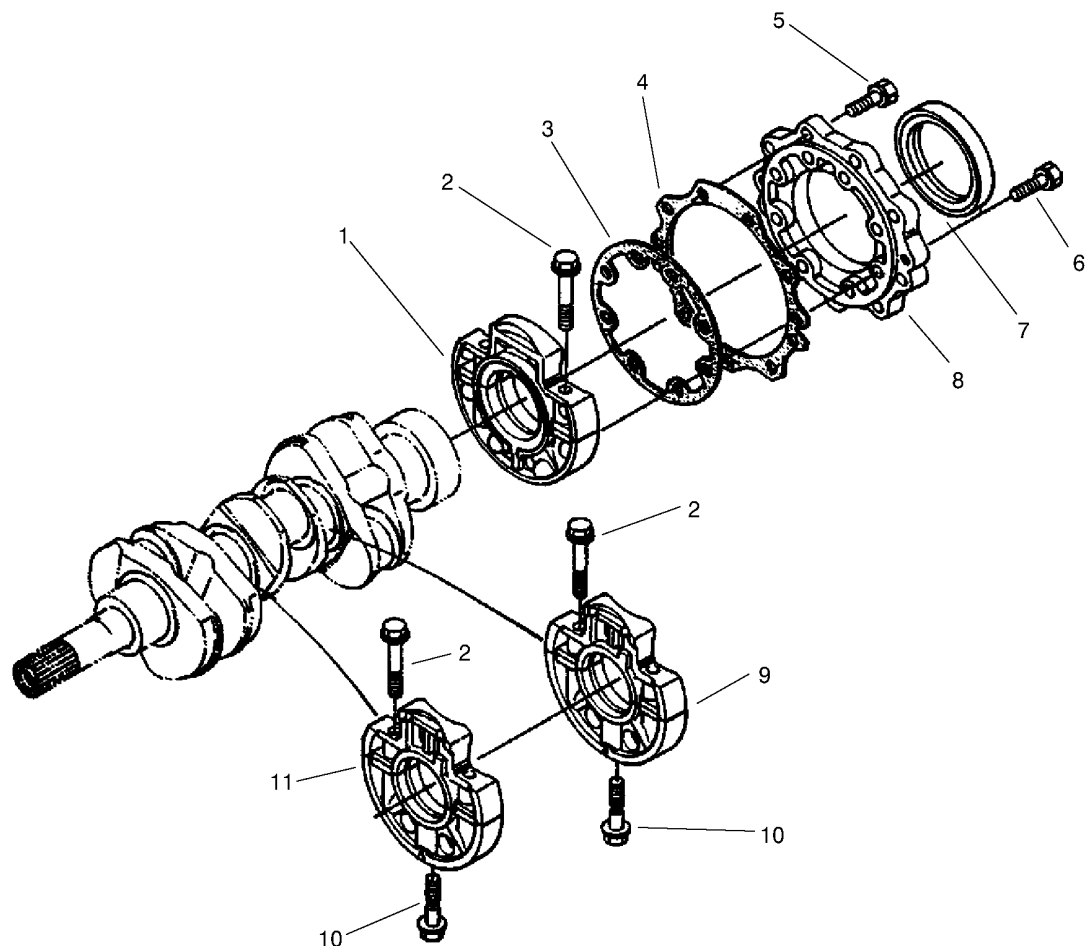
Filter, Oil Cooler, and Pipe Assembly

Ref	Part No.	Qty.	Description				
1	99-8346	4	Gasket				
2	98-9417	1	Bolt-Eye Joint				
3	98-9418	1	Bolt-Eye Joint				
4	98-9419	1	Bolt				
5	98-9435	1	Gasket				
6	98-9461	1	Pipe-Oil				
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	ASM-Holder				
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	ASM-Cooler, Oil				
18	98-9729	1	O-Ring				
19	99-8383	1	ASM-Pipe, Oil (Incl. Ref. No.21)				
19:1	98-9722	1	O-Ring				
20	99-8384	1	Oil Cartridge ASM				



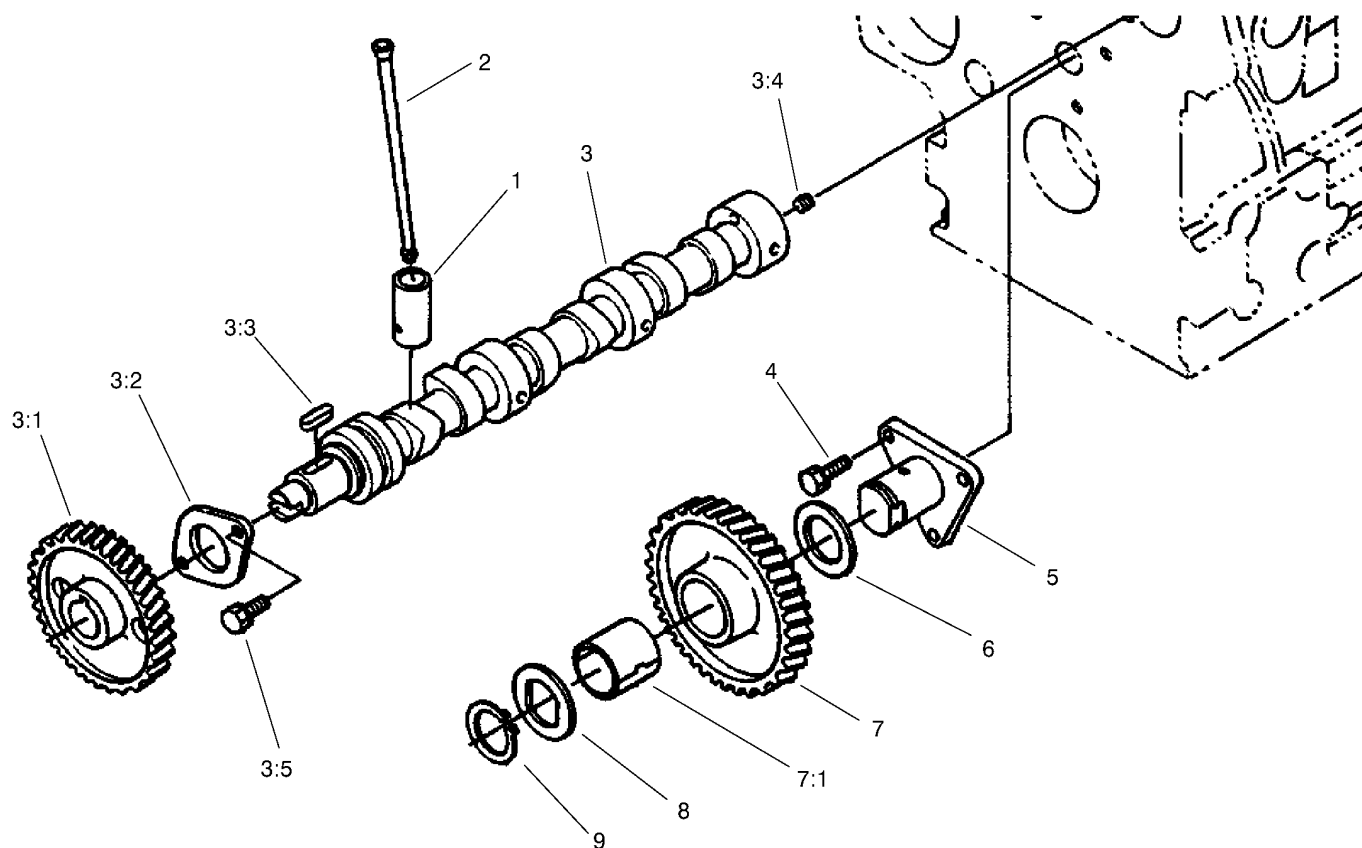
Head Cover Assembly

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 With Washer				
1:3	98-9490	1	Breater-Shiled, Oil				
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				



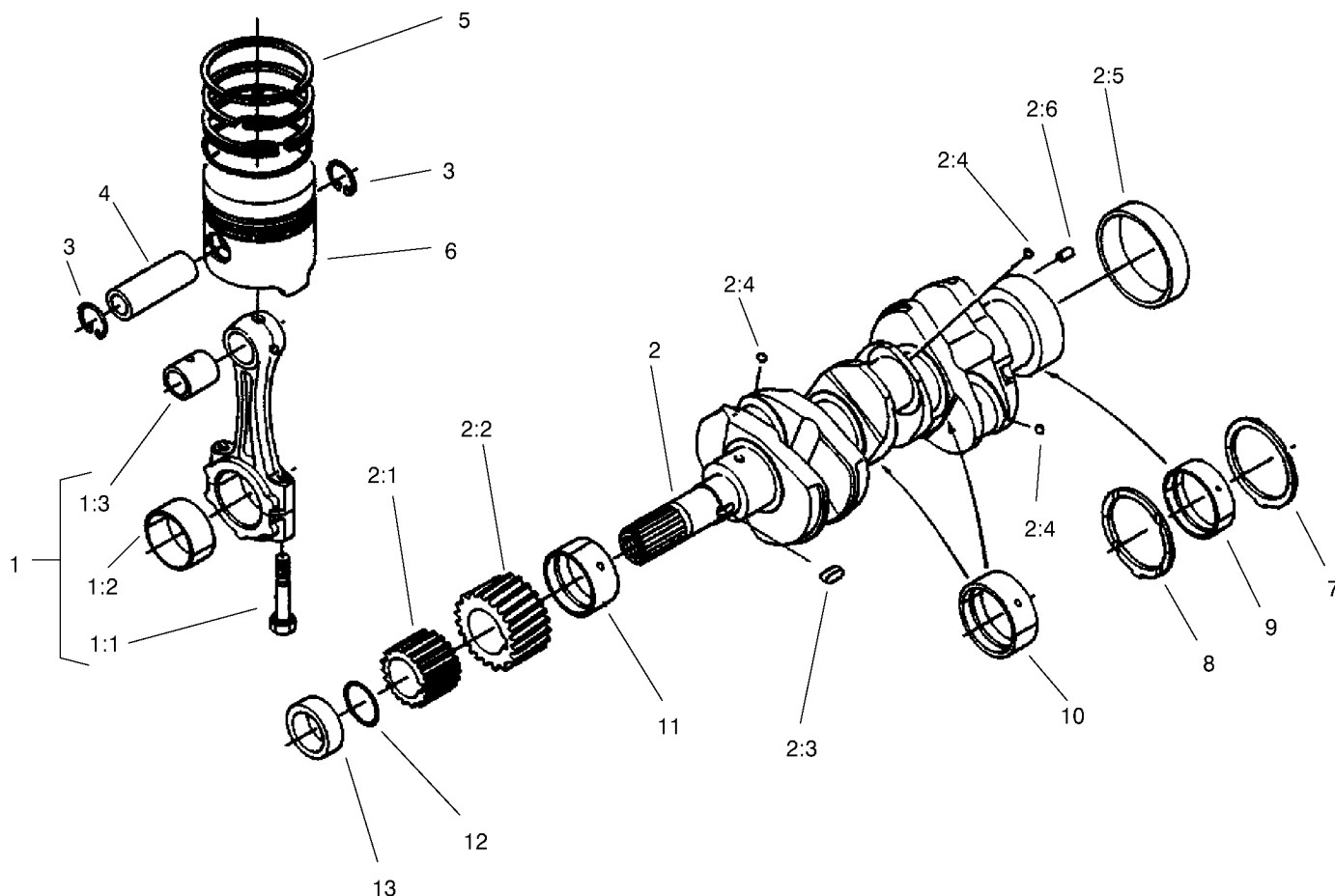
Main Bearing Case Assembly

Ref	Part No.	Qty.	Description				
1	98-9480	1	ASM-Case, Main Bearing				
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	ASM-Case, Main Bearing				
10	98-9485	2	Bolt-Case, Bearing				
11	99-8361	1	ASM-Case, Main Bearing				



Camshaft Assembly

Ref	Part No.	Qty.	Description				
1	98-9616	6	Tappet				
2	98-9509	6	Rod-Push				
3	99-8362	1	ASM-Camshaft (Incl. Ref. No.1-3, 6 And 15)				
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	Idler 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				

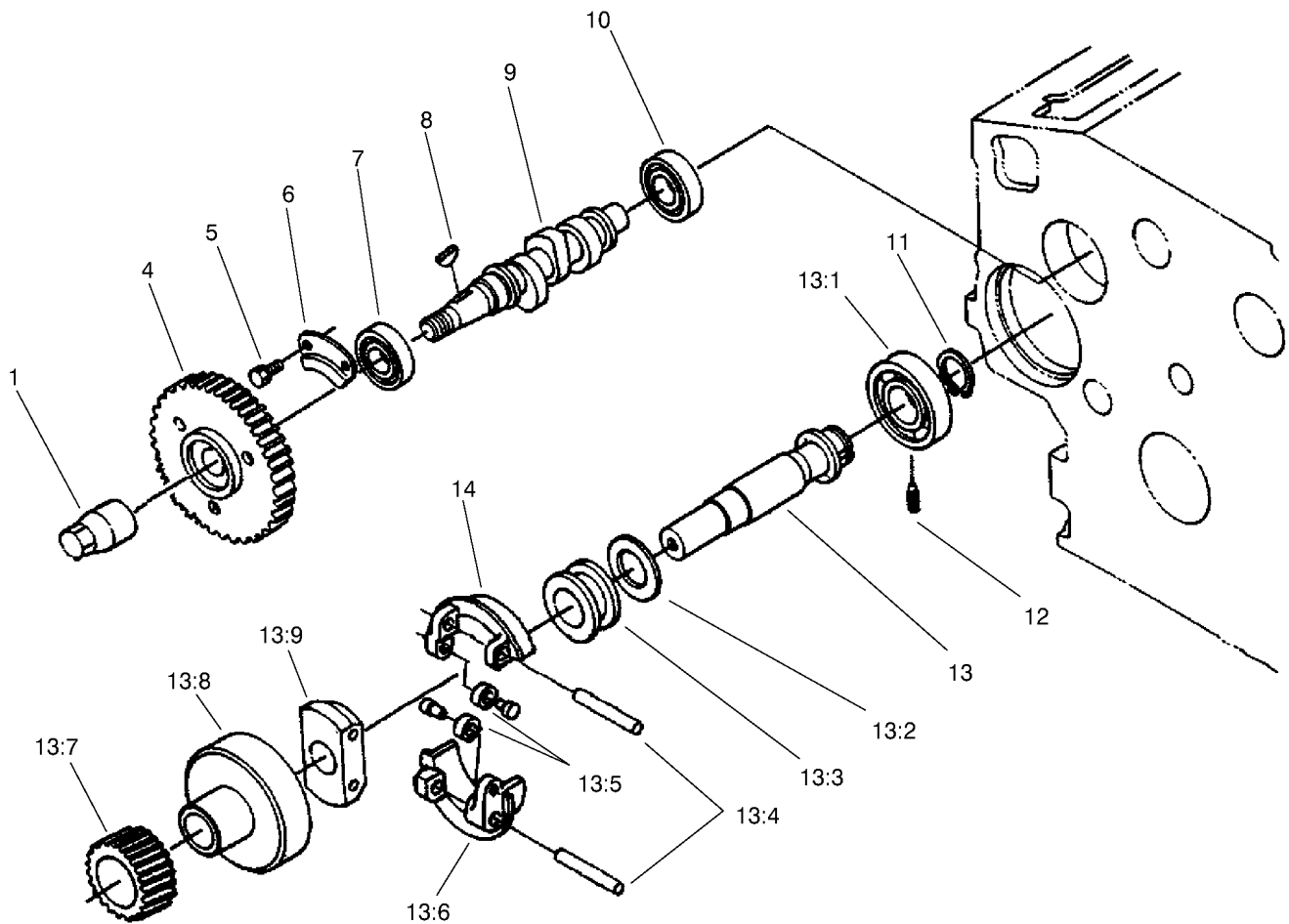


Piston and Crankshaft Assembly

Ref	Part No.	Qty.	Description
1	98-9552	3	ASM-Rod, Connecting (Incl. Ref. No.1-3)
1:1	98-9517	6	Bolt-Rod, Connecting
1:2	98-9519	3	Metai-Crankpin (0.2Mm Undersize)
1:2	98-9520	3	Metai-Crankpin (0.4Mm Undersize)
1:2	98-9553	3	Metal-Crankpin (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 Oversize)
5	98-9551	3	ASM-Piston Ring (STD.)
6	98-9550	3	Piston (STD.)
6	98-9470	3	Piston (0.5Mm Oversize)
7	98-9413	2	Metal-Side (STD.)
7	98-9414	2	Metal-Side (0.2Mm Oversize)

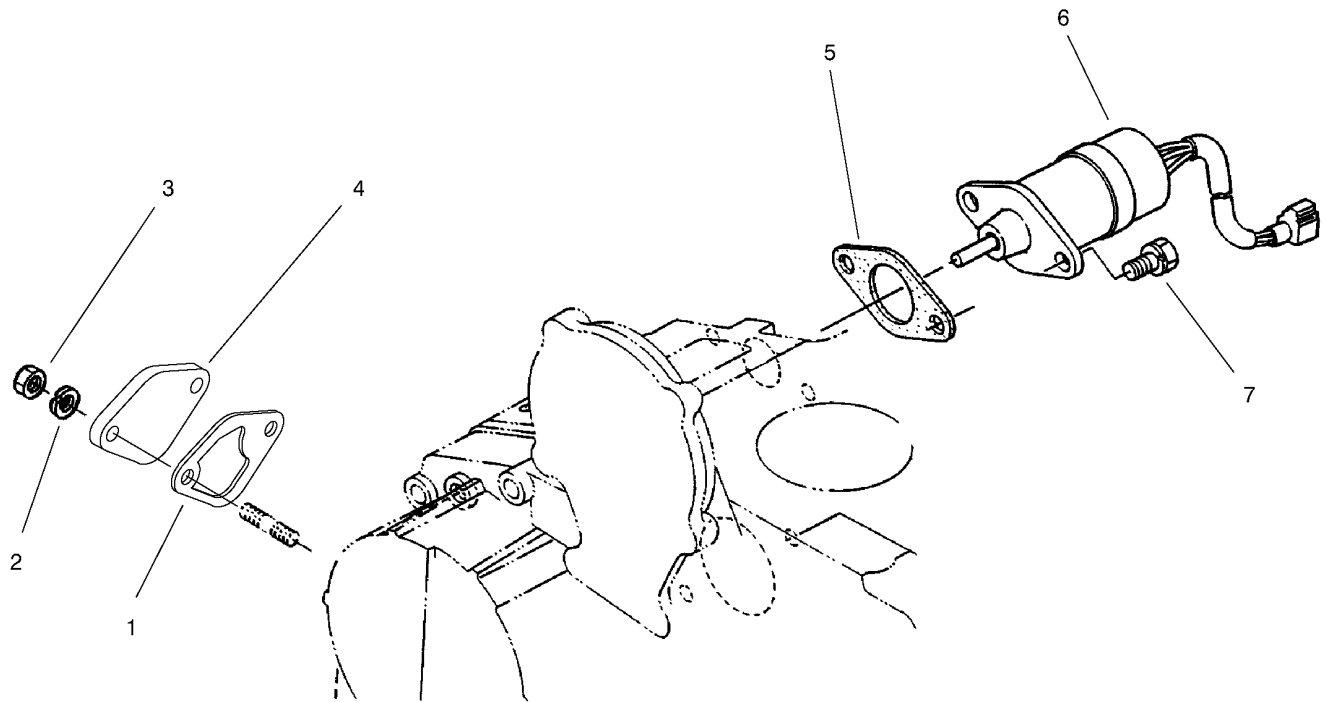
Ref	Part No.	Qty.	Description
7	98-9415	2	Metal-Side (0.4Mm Oversize)
8	98-9688	2	Metal-Side (STD.)
8	98-9689	2	Metal-Side (0.2Mm Oversize)
8	98-9690	2	Metal-Side (0.4Mm Oversize)
9	98-9526	1	Metal-Crankshaft (0.2Mm Undersize)
9	98-9527	1	Metal-Crankshaft (0.4Mm Undersize)
9	98-9556	1	Metal-Crankshaft (STD)
10	98-9530	2	Metal-Crankshaft (0.2Mm Undersize Set)
10	98-9531	2	Metal-Crankshaft (0.4Mm Undersize Set)
10	98-9555	2	Metal-Crankshaft (STD Set)
11	98-9528	1	Metal-Crankshaft (0.2Mm Undersize)
11	98-9529	1	Metal-Crankshaft (0.4Mm Undersize)
11	98-9554	1	Metal-Crankshaft (STD)
12	98-9373	1	O-Ring
13	98-9521	1	Collar-Crankshaft

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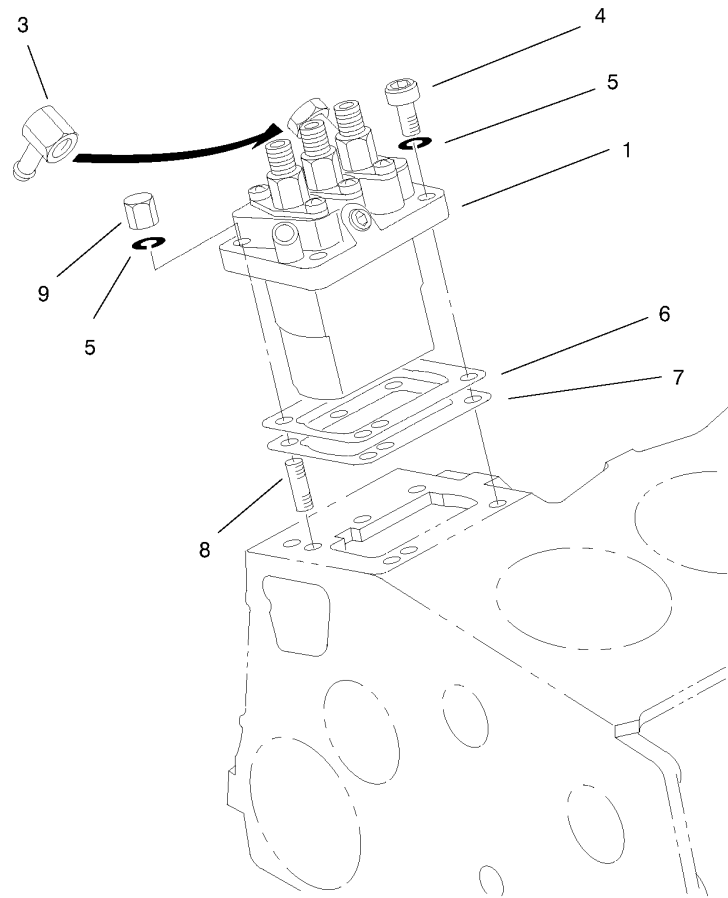
Fuel Camshaft Assembly

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, Gov. 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-Gear, Governor				
14	98-9559	2	Governor Weight ASM				



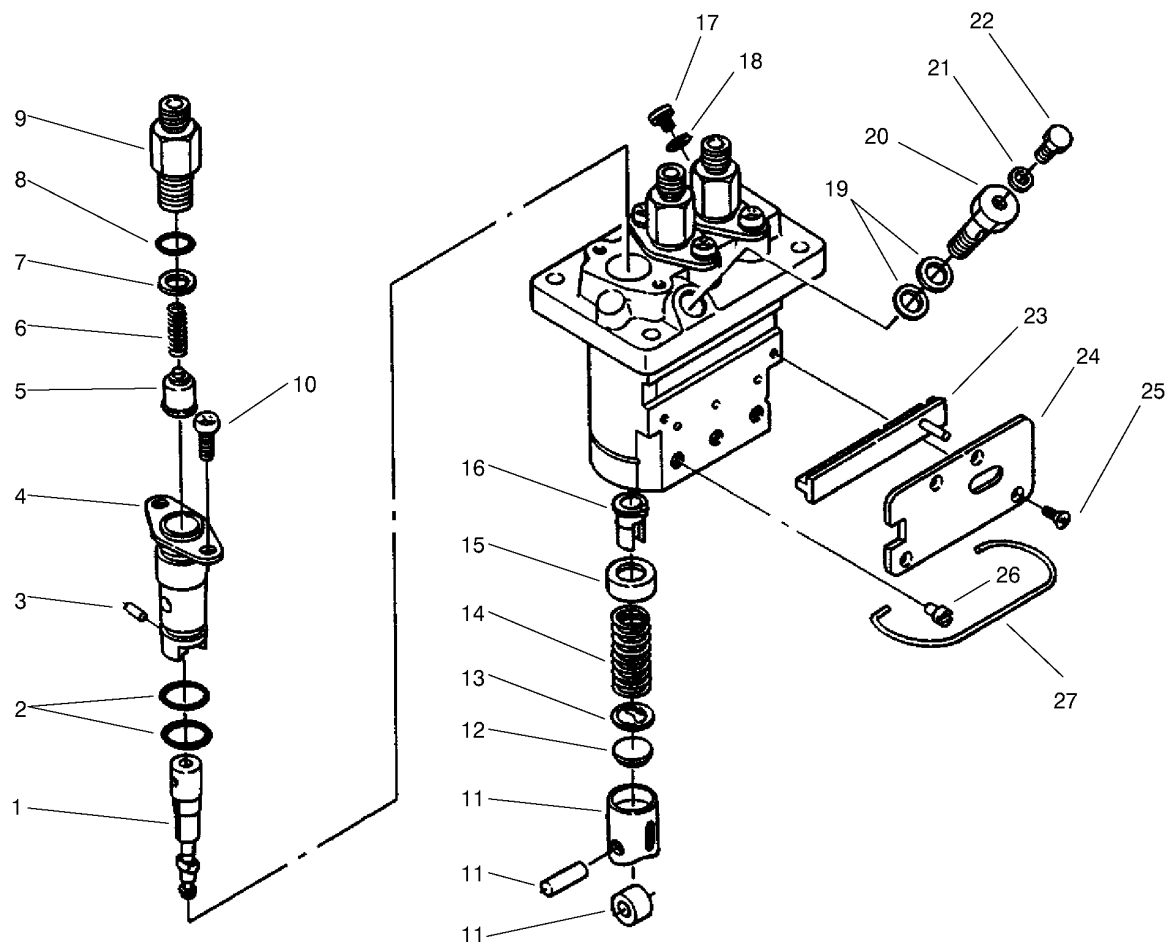
Stop Solenoid and Fuel Pump Assembly

Ref	Part No.	Qty.	Description				
1	98-9636	1	Gasket-Pump, Fuel				
2	98-9367	2	Washer-Spring				
3	98-7572	2	Nut				
4	99-3514	1	Cover				
5	98-9683	1	Gasket-Cover, Solenoid				
6	98-9693	1	Solenoid-Stop				
7	98-9351	2	Bolt				



Injection Pump Installation Assembly

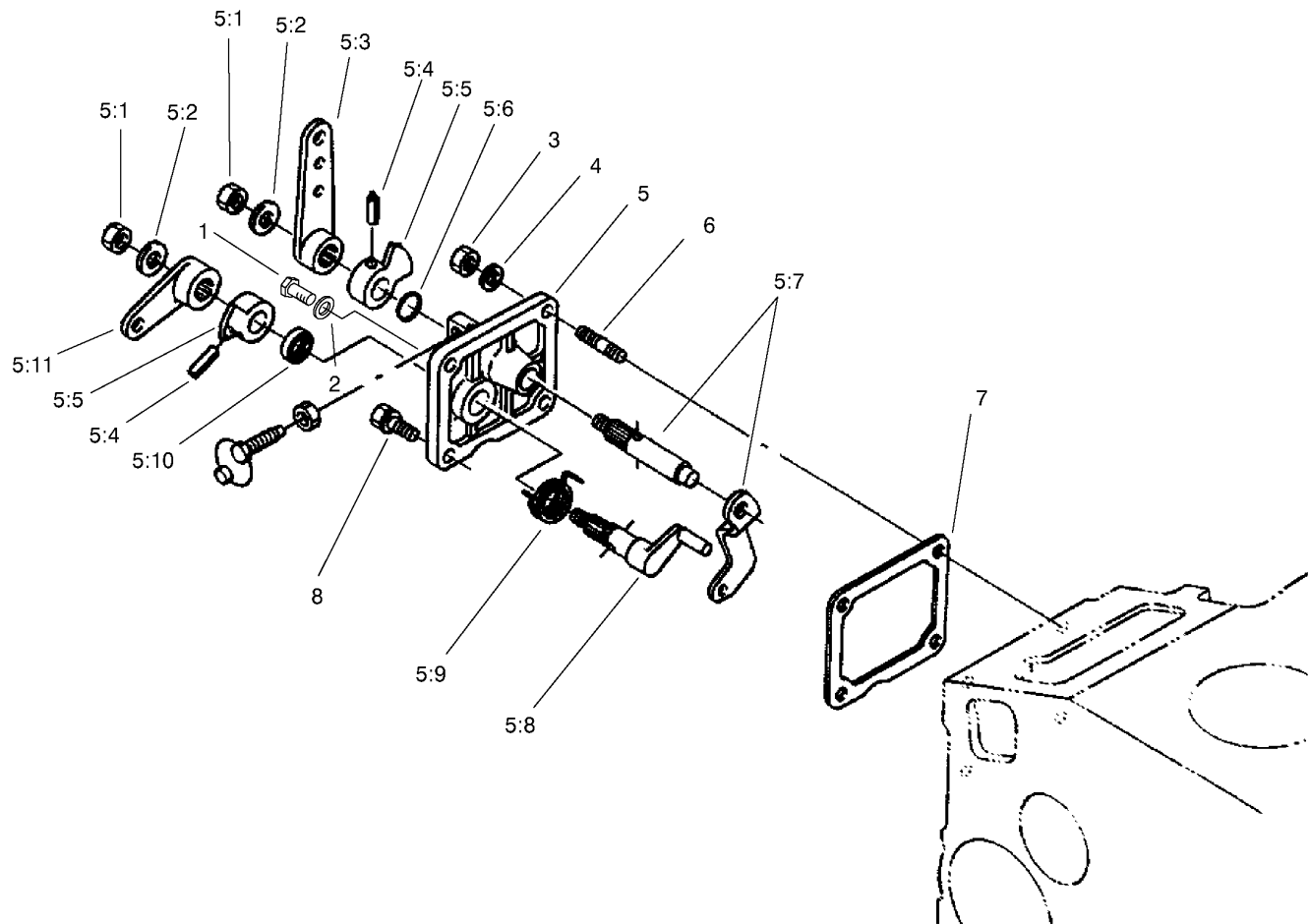
Ref	Part No.	Qty.	Description				
1	98-9643	1	Injection Pump ASM				
3	98-9596	1	Joint-Eye				
4	98-9361	2	Bolt-HSH				
5	98-9367	4	Washer-Spring				
6	98-9457	1	Shim-Injection (0.25Mm)				
6	98-9456	1	Shim				
7	98-9458	1	Shim-Injection (0.30Mm)				
8	98-9438	2	Stud				
9	98-9440	2	Nut,-Cap				



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, Delev.
7	98-9425	3	Gasket-Valve, Deliv.
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	Rack-Control
24	98-9465	1	Plate

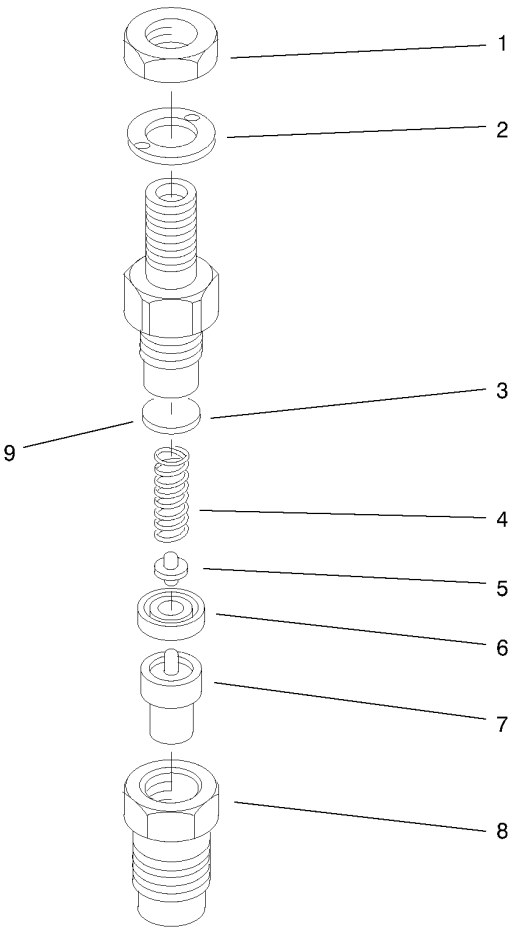
Ref	Part No.	Qty.	Description
25	98-9442	4	Screw-Head, Csk
26	98-9426	3	Pin-Guide, Tappet
27	98-9450	1	Pin-Clamp



Speed Control Plate Assembly

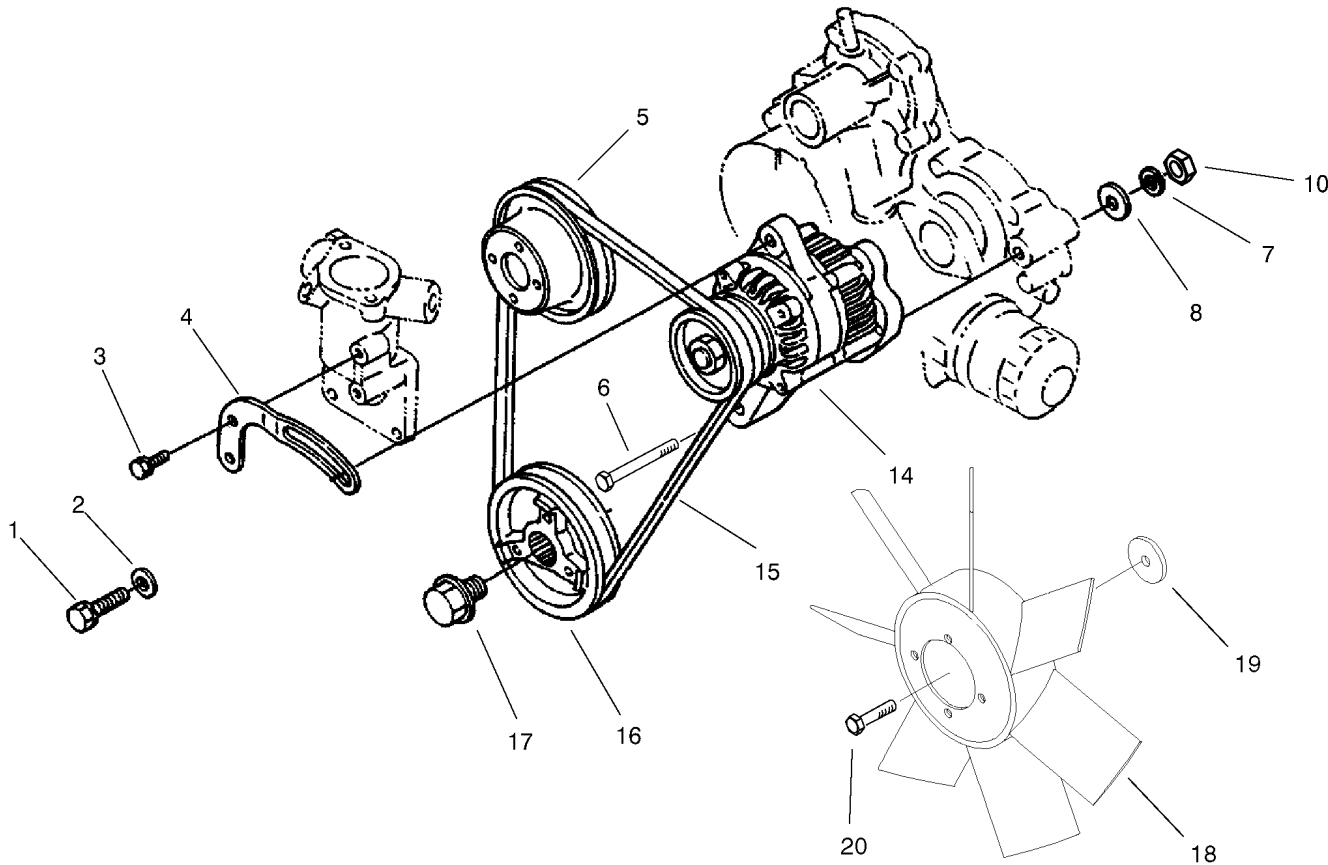
Ref	Part No.	Qty.	Description				
1	99-8348	1	Bolt				
2	98-7654	1	Gasket				
3	98-7572	2	Nut				
4	98-9367	2	Washer-Spring				
5	98-9661	1	Control Plate ASM				
5:1	98-9589	2	Nut				
5:2	98-9594	2	Washer-Flat				
5:3	98-9662	1	Lever-Control, Speed				
5:4	98-7602	2	Pin-Spring				
5:5	98-9572	2	Lever-Control, 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				

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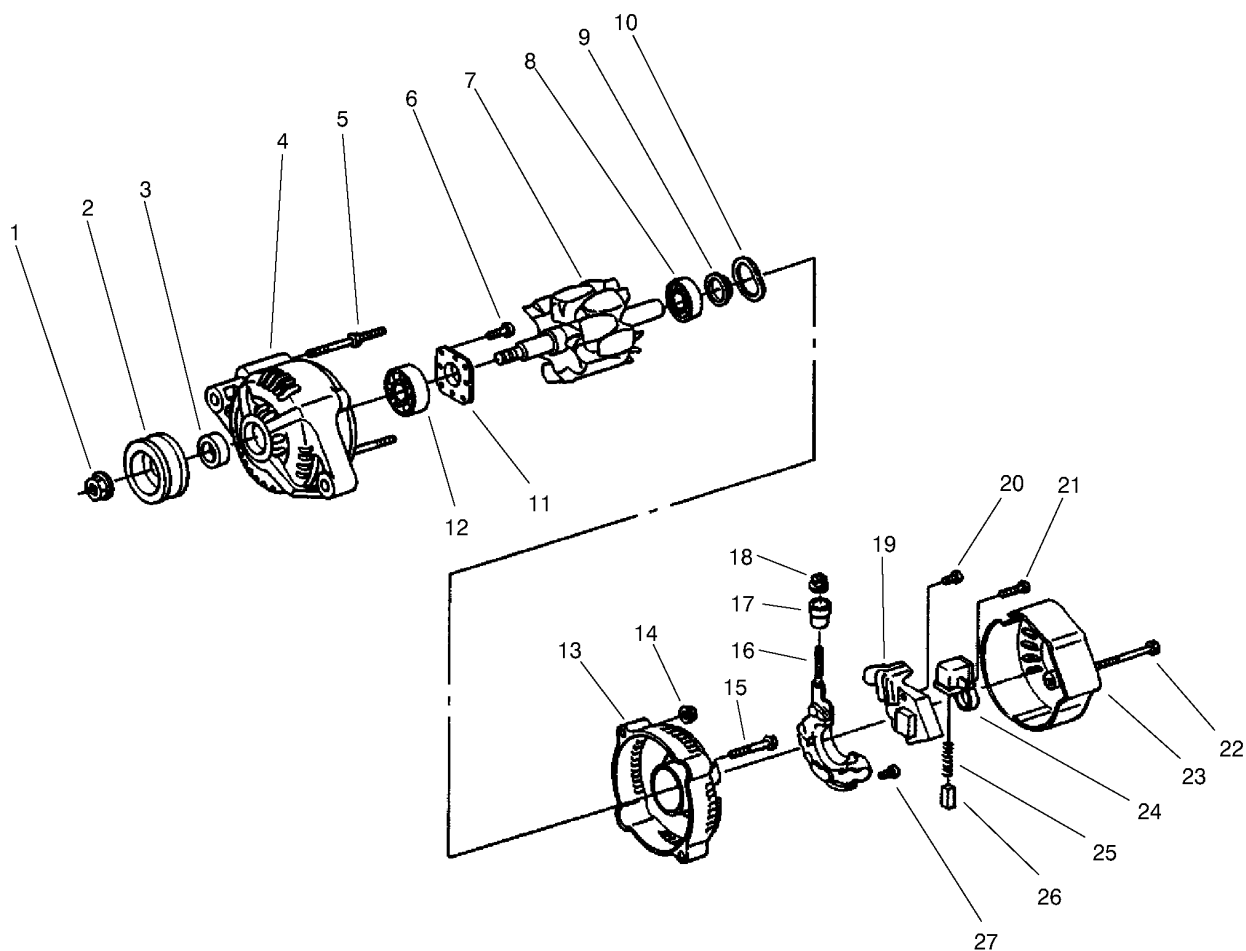
Nozzle Holder Assembly No. 98-9468

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



Alternator and Pulley Assembly

Ref	Part No.	Qty.	Description				
1	98-7697	1	Bolt				
2	98-7698	1	Washer-Flat				
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-Lock				
8	98-9366	1	Washer-Flat				
10	98-7737	1	Nut				
14	98-9474	1	Alternator ASM				
15	98-9676	1	V-Belt				
16	99-3456	1	Pulley-Fan Drive				
17	98-9585	1	Bolt				
18	104-4246	1	Fan				
19	104-4247	1	Spacer				
20	33103-020	4	Screw-HHF				

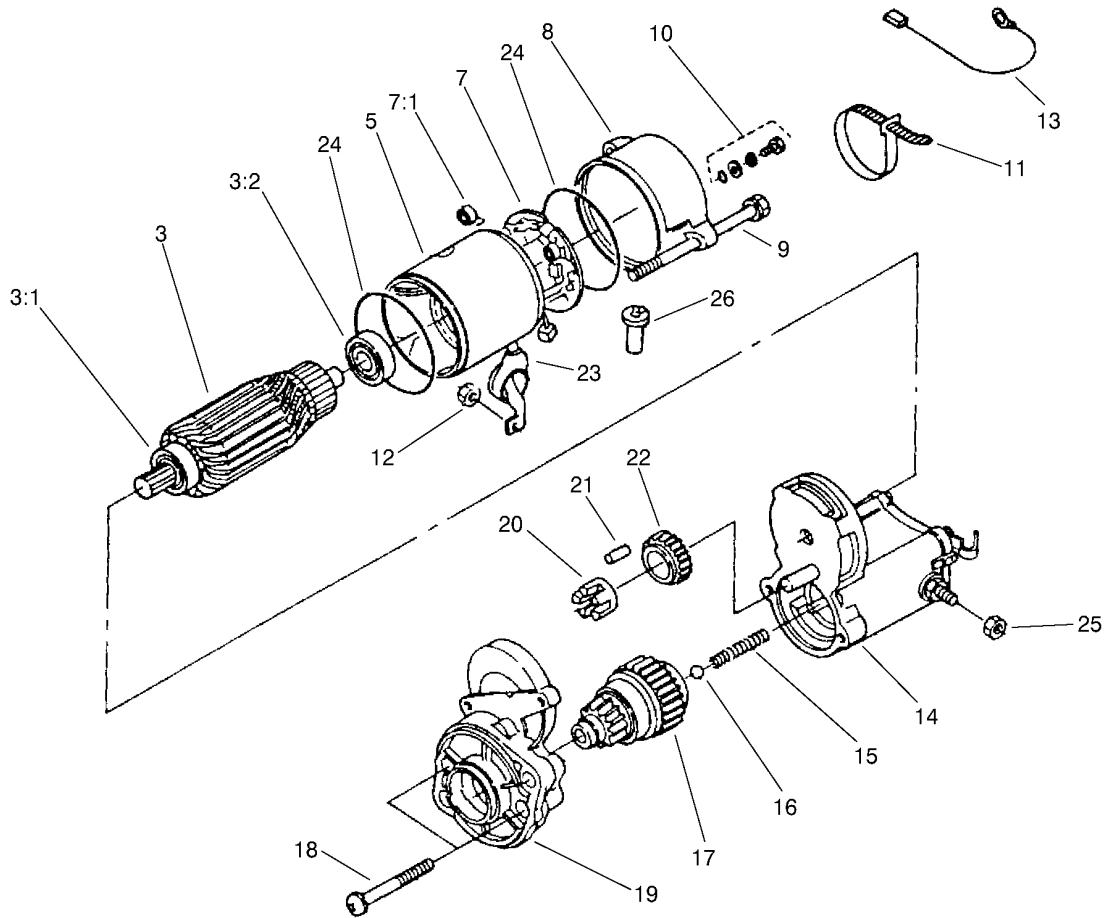


Alternator Assembly No. 98-9474

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-Drive End
5	98-7717	2	Bolt-Through
6	98-7716	4	Screw-RH
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-RH
21	98-7728	1	Screw-RH
22	98-7729	3	Bolt
23	98-7720	1	Cover-End
24	98-7723	1	Holder-Brush

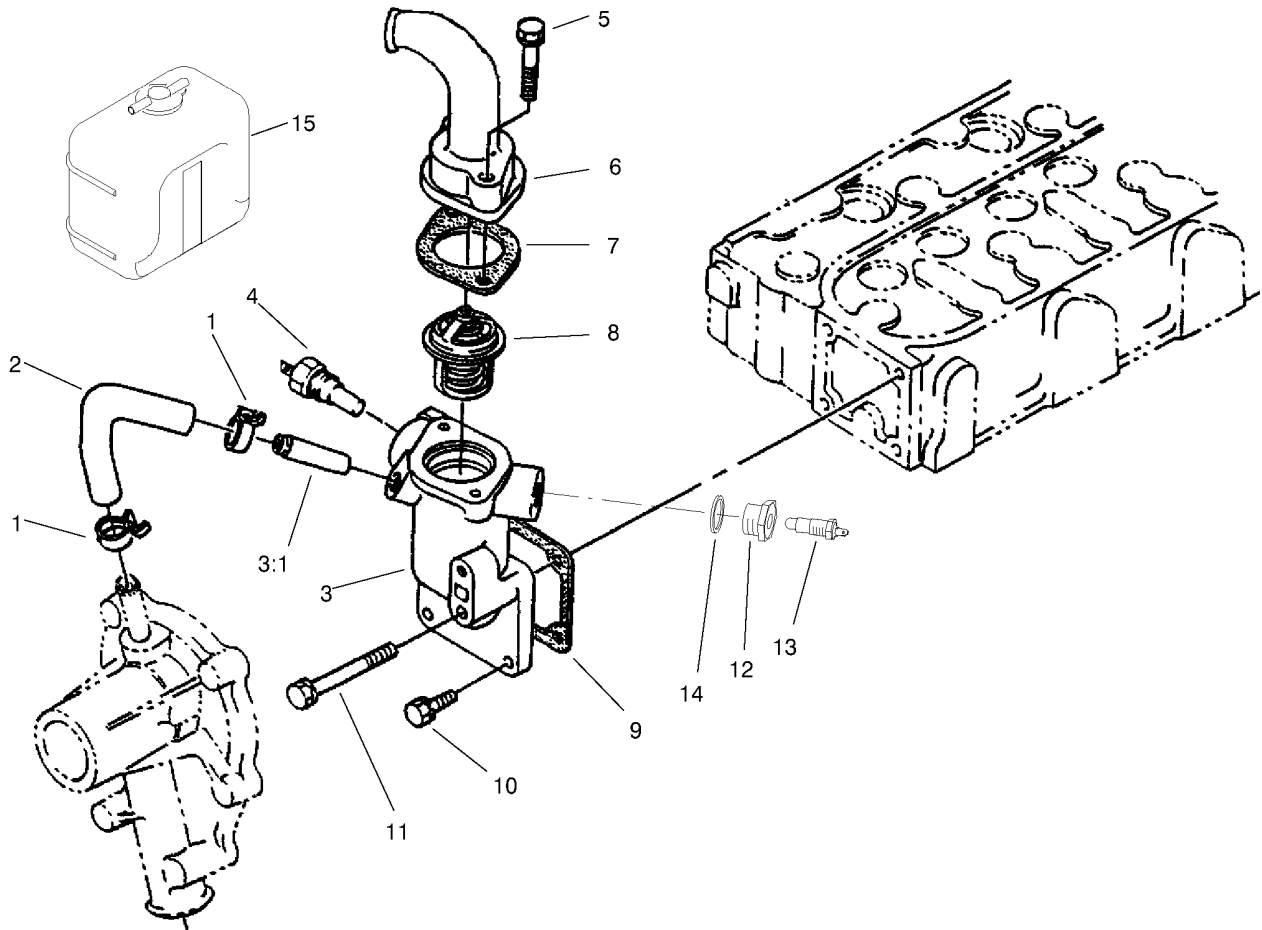
Ref	Part No.	Qty.	Description
25	98-7725	2	Spring-Brush
26	98-7724	2	Brush
27	98-7727	6	Screw-RH

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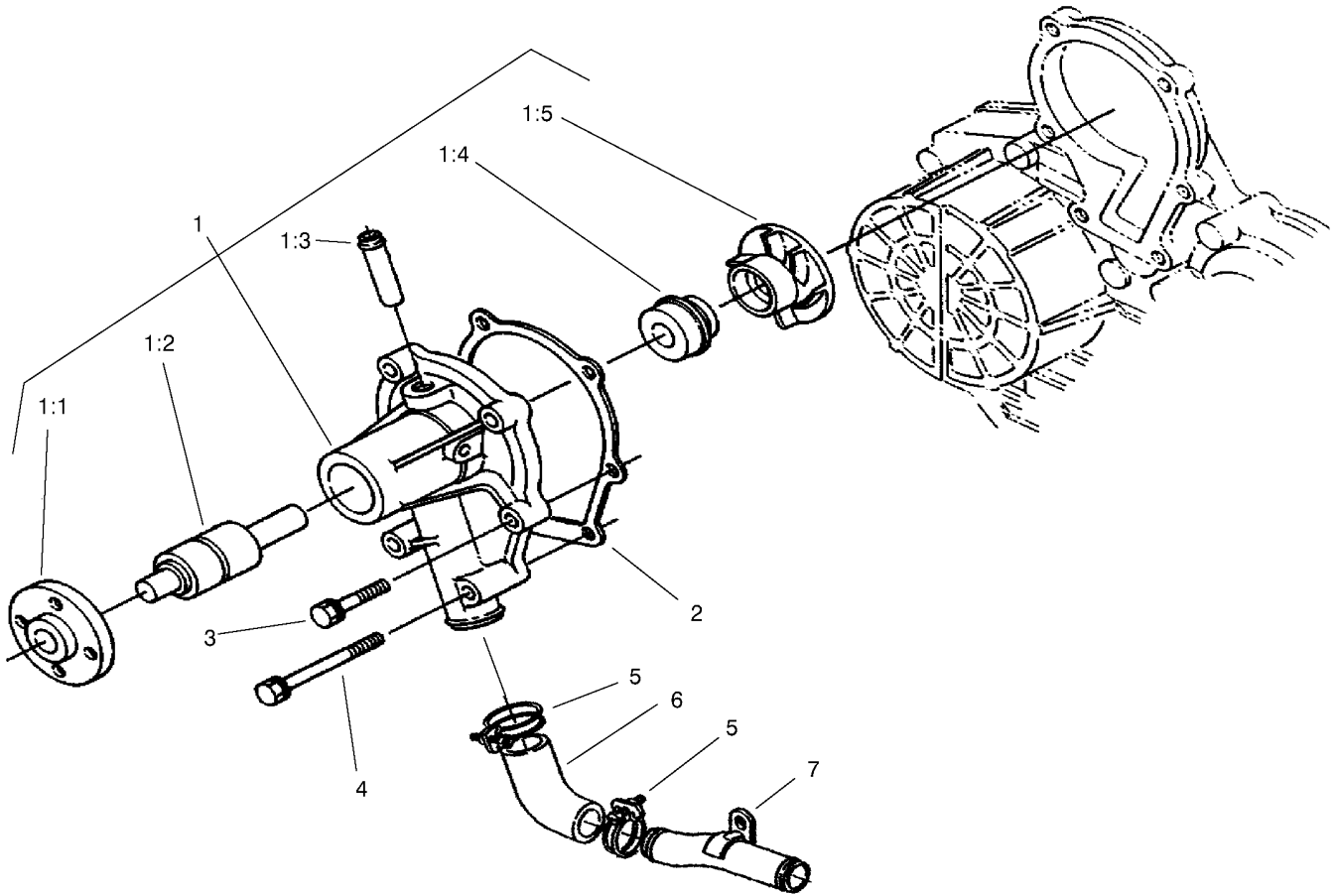
Starter Assembly No. 98-9705

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-Ball				
3:2	98-7744	1	Bearing-Ball				
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-Stop, Solenoid				
14	99-8372	1	Magnetic Switch ASM				
15	98-7754	1	Spring				
16	98-7755	1	Ball				
17	99-8373	1	Clutch				
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-Cord				
24	98-7757	2	O-Ring				
25	99-8376	1	Nut				



Water Flange and Thermostat Assembly

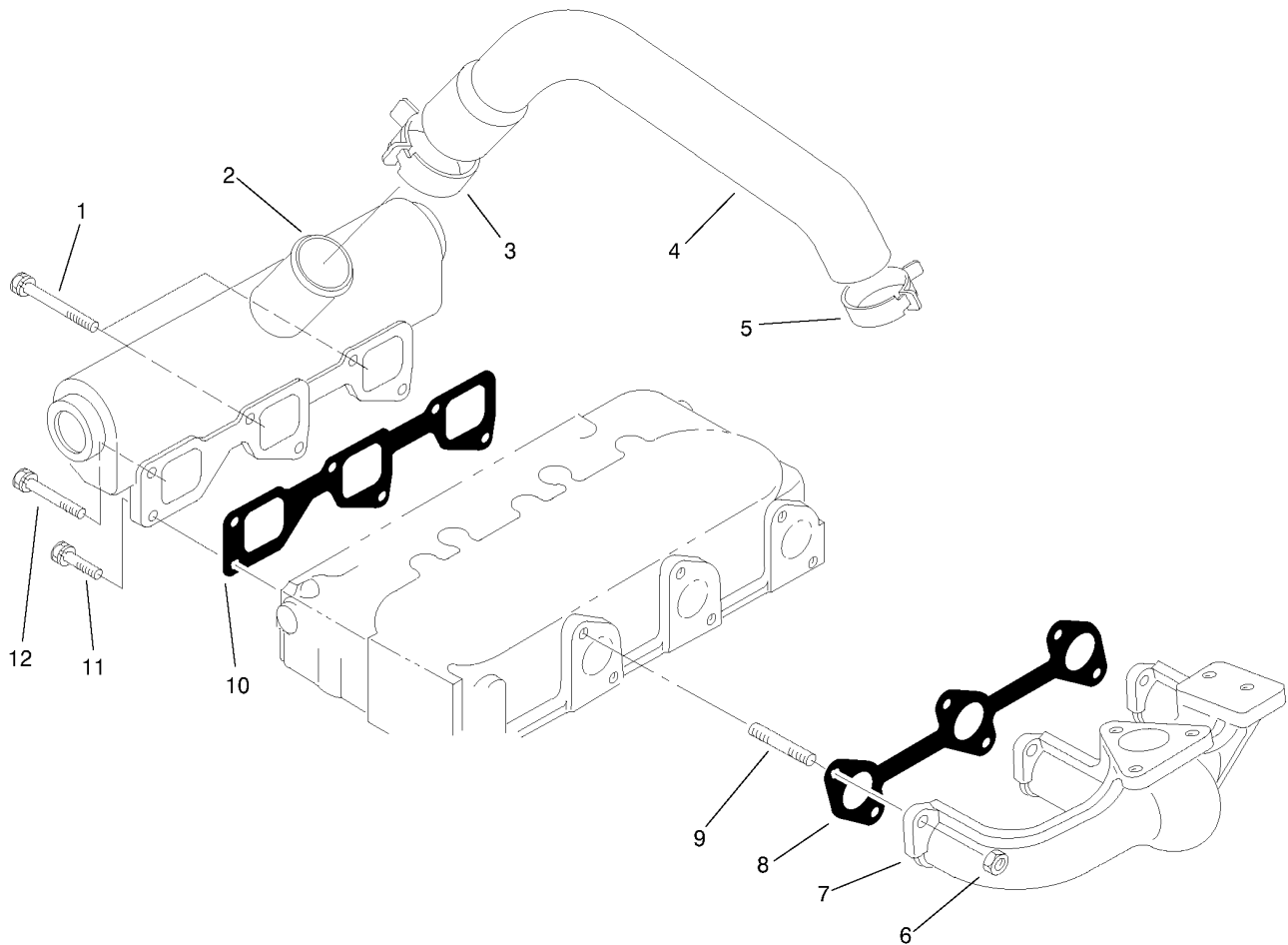
Ref	Part No.	Qty.	Description				
1	98-9579	2	Band-Pipe				
2	98-9578	1	Pipe-Return, Water				
3	98-9713	1	Water Flange ASM				
3:1	98-9580	1	Pipe-Return, Water				
4	98-9719	1	Thermoswitch				
5	98-7777	2	Bolt				
6	104-4804	1	Outlet-Water				
7	98-7776	1	Gasket				
8	98-7778	1	Thermostat ASM				
9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



Water Pump Assembly

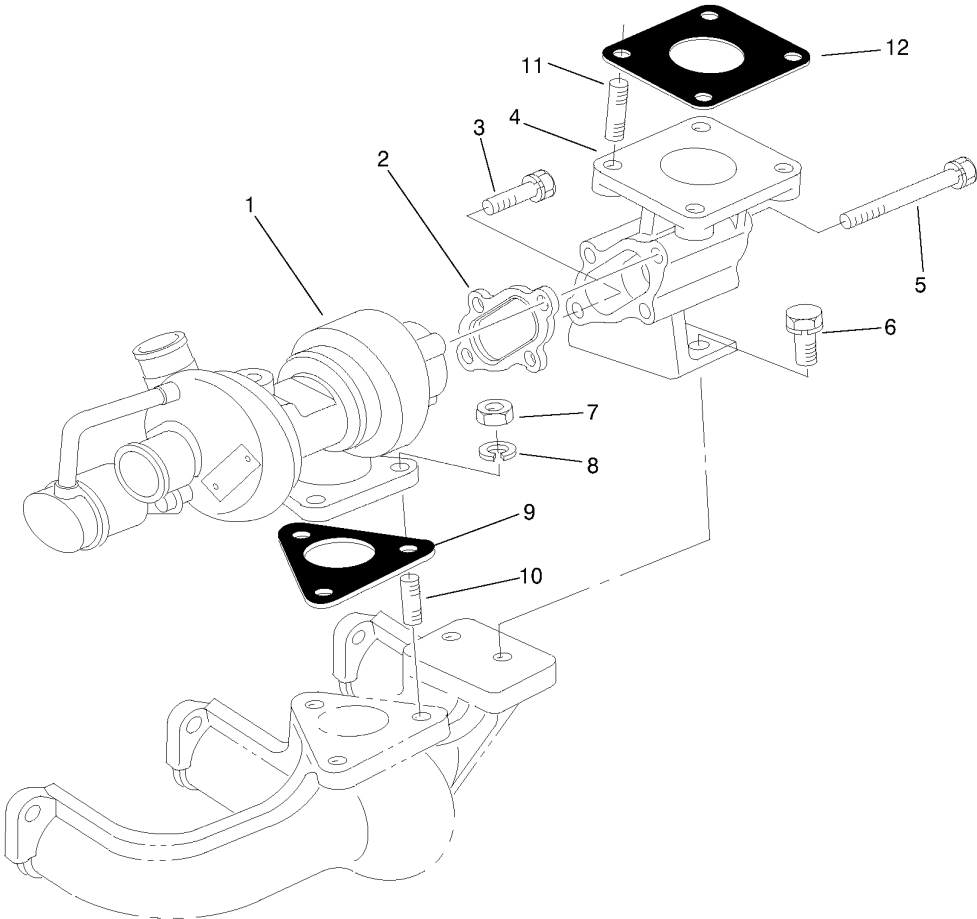
Ref	Part No.	Qty.	Description				
1	99-3455	1	ASM-Pump, Water (Incl. Ref. No.2-6)				
1:1	99-3516	1	Flange-Pump, Water				
1:2	99-3517	1	Bearing				
1:3	98-9577	1	Pipe-Return, Water				
1:4	99-3518	1	Seal ASM, Water Pump				
1:5	99-3519	1	Impeller-Water				
2	99-3454	1	Gasket-Pump, Water				
3	33103-030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





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-Exhaust				
9	98-9588	6	Stud				
10	99-8329	1	Gasket-Intake				
11	98-7568	3	Bolt				
12	98-7496	1	Bolt				



Turbo Charge Assembly

Ref	Part No.	Qty.	Description				
1	99-8332	1	ASM-Charger, Turbo				
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-Lock				
9	99-8340	1	Gasket				
10	99-8341	3	Stud				
11	99-8342	4	Stud				
12	99-8343	1	Gasket-Muffler				

