



Greensmaster® 3250-D Traction Unit

Model No. 04383 - 230001501 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.

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

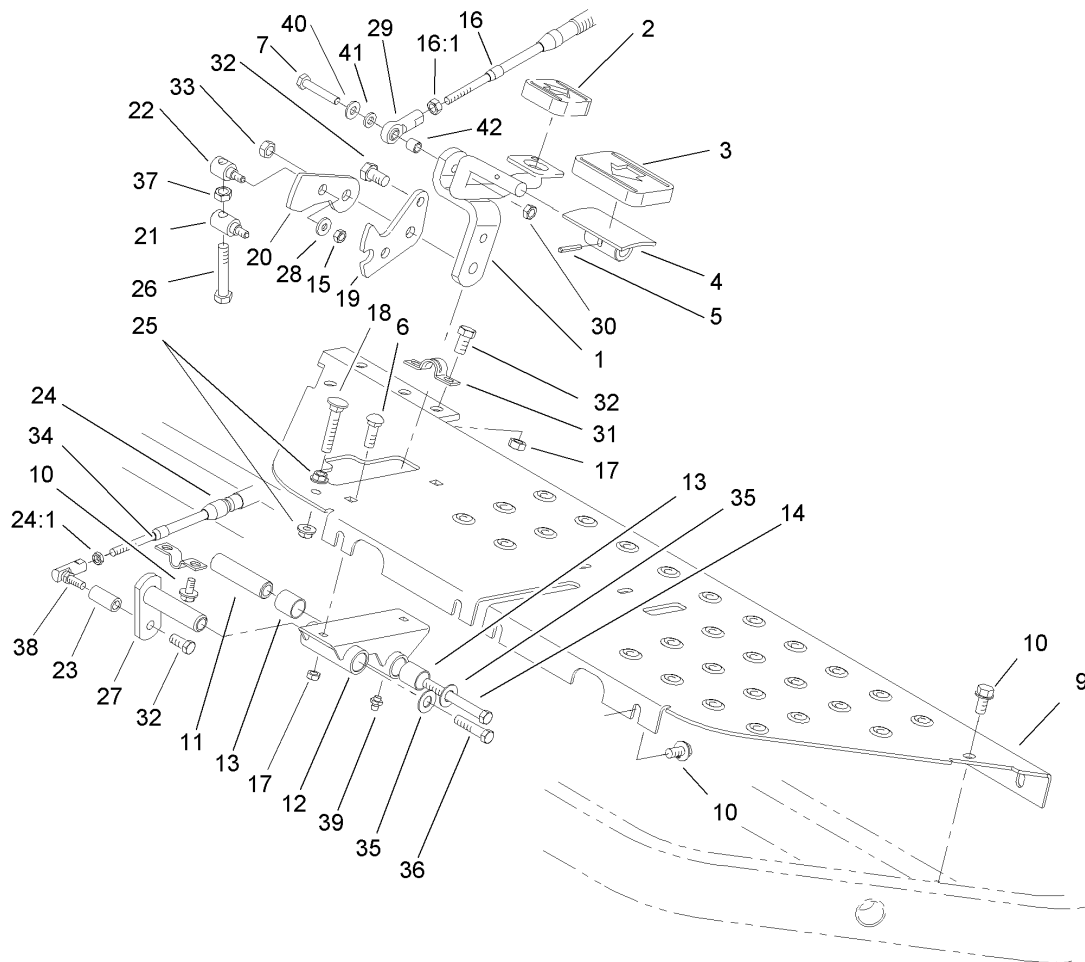
AR.	as required	HYD.	hydraulic
ASM.	assembly	INC.	incorporated
CARR.	carriage	LH.	left hand
DEG.	degrees	NI.	nylon insert
FH.	flat head	PPH.	phillips pan head
GA.	gauge	PTH.	phillips truss head
HF.	hex flange	PTO.	power take off
HH.	hex head	RH.	right hand
HHF.	hex head flange	SFH.	slotted fillister head
HHFTF.	hex head flange thread forming	SHH.	slotted hex head
HJ.	hex jam	SHWH.	slotted hex washer head
HLH.	hex lag head	SPH.	slotted pan head
HOC.	height-of-cut	SQH.	square head
HS.	hex	SRH.	slotted round head
HSBH.	hex socket button head	STD.	standard
HSFH.	hex socket flat head	TAP.	self tapping
HSH.	hex socket head	TTH.	torx truss head
HWH.	hex washer head	WH.	wing head
HWHTF.	hex washer head thread forming		

Footnotes

- | | | | |
|---|---|---|--|
| ❶ | Not illustrated | ❷ | Not serviced separately |
| ❸ | Refer To Repair Manual MS 1055 For Assembly and/or Torque Requirements. | ❹ | Included in Gasket Set-Part Number 99-9667 |

Contents

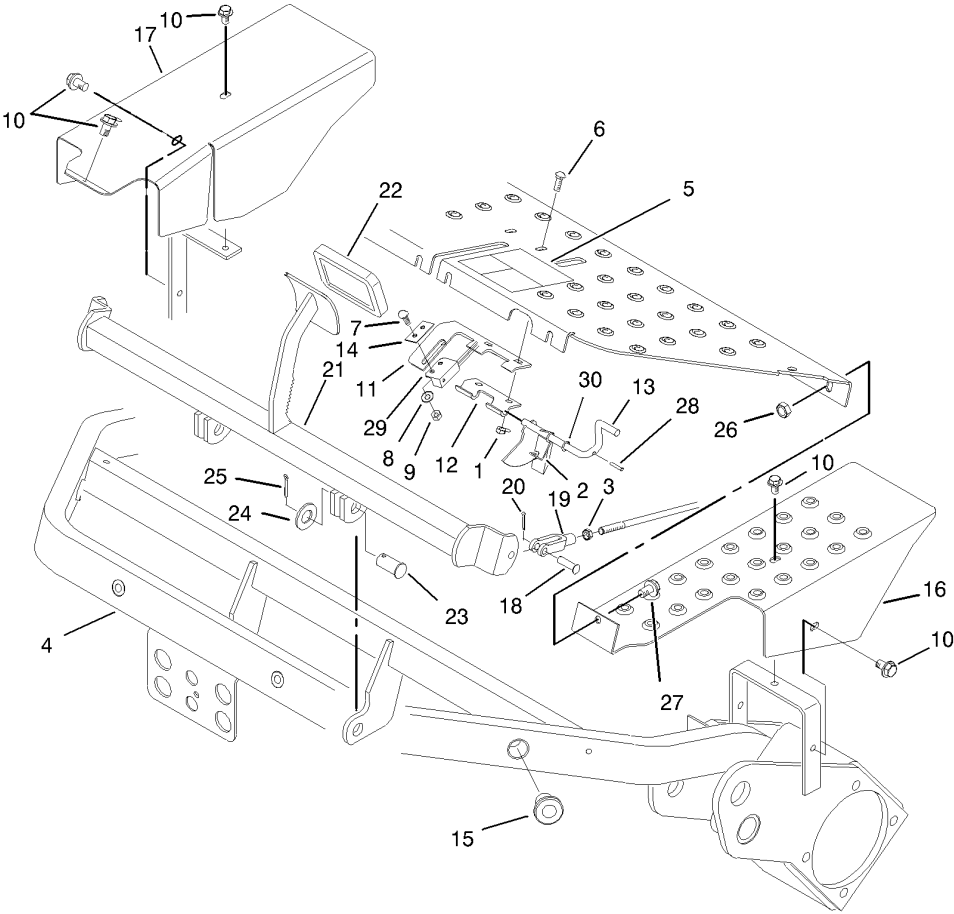
Description	Page	Description	Page
Traction Control Assembly	 3	Left Hand and Right Hand Lift Arm Assembly	 31
Brake Pedal Assembly	 4	Hydraulic Cylinder Assembly No. 105-3821	 32
Front Wheel and Brake Assembly	 5	Center Lift Arm Assembly	 33
Brake Assembly No. 104-7705	 6	Hydraulic Cylinder Assembly No. 105-3820	 35
Hydraulic Motor Assembly No. 92-9199	 7	Fuel System Assembly	 36
Steering Arm Assembly	 8	Hydraulic Tank and Filter Assembly	 37
Steering Control Valve Assembly No. 105-0424	 9	Pull Frame Assembly	 38
Rear Wheel Assembly	 10	Cylinder Assembly	 39
Steering Cylinder Assembly No. 93-2122	 11	Crankshaft Assembly	 40
Console Assembly	 12	Cylinder Head Assembly	 41
Functional Control Lever Assembly	 14	Injection Assembly	 42
Seat Assembly	 15	Injection Assembly No. 106-6364	 43
Electronics Installation Assembly	 17	Rocker Arm Assembly	 44
Hydrostat and Gear Pump Drive Assembly	 18	Oil Pan Assembly	 45
Hydrostat Assembly No. 105-0494	 19	Cover Assembly	 46
Gear Pump Assembly No. 104-7737	 20	Gear Housing Assembly	 47
Neutral System Assembly	 21	Water Pump Assembly	 48
Engine Installation Assembly	 22	Manifold Assembly	 49
Air Cleaner and Exhaust Assembly	 23	Alternator Assembly	 50
Air Cleaner Assembly No. 95-5805	 24	Alternator Assembly No. 99-9209	 51
Radiator Assembly	 25	Starter Motor Assembly No. 104-7716	 52
Manifold Block Installation Assembly	 26	Gasket and Valve Overhaul Kit	 53
Manifold Assembly No. 106-9005	 27		
Front Bulkhead and Reel Motor Assembly	 28		
Reel Motor Assembly No. 100-6426	 29		
Rear Bulkhead and Reel Motor Assembly	 30		



Traction Control Assembly

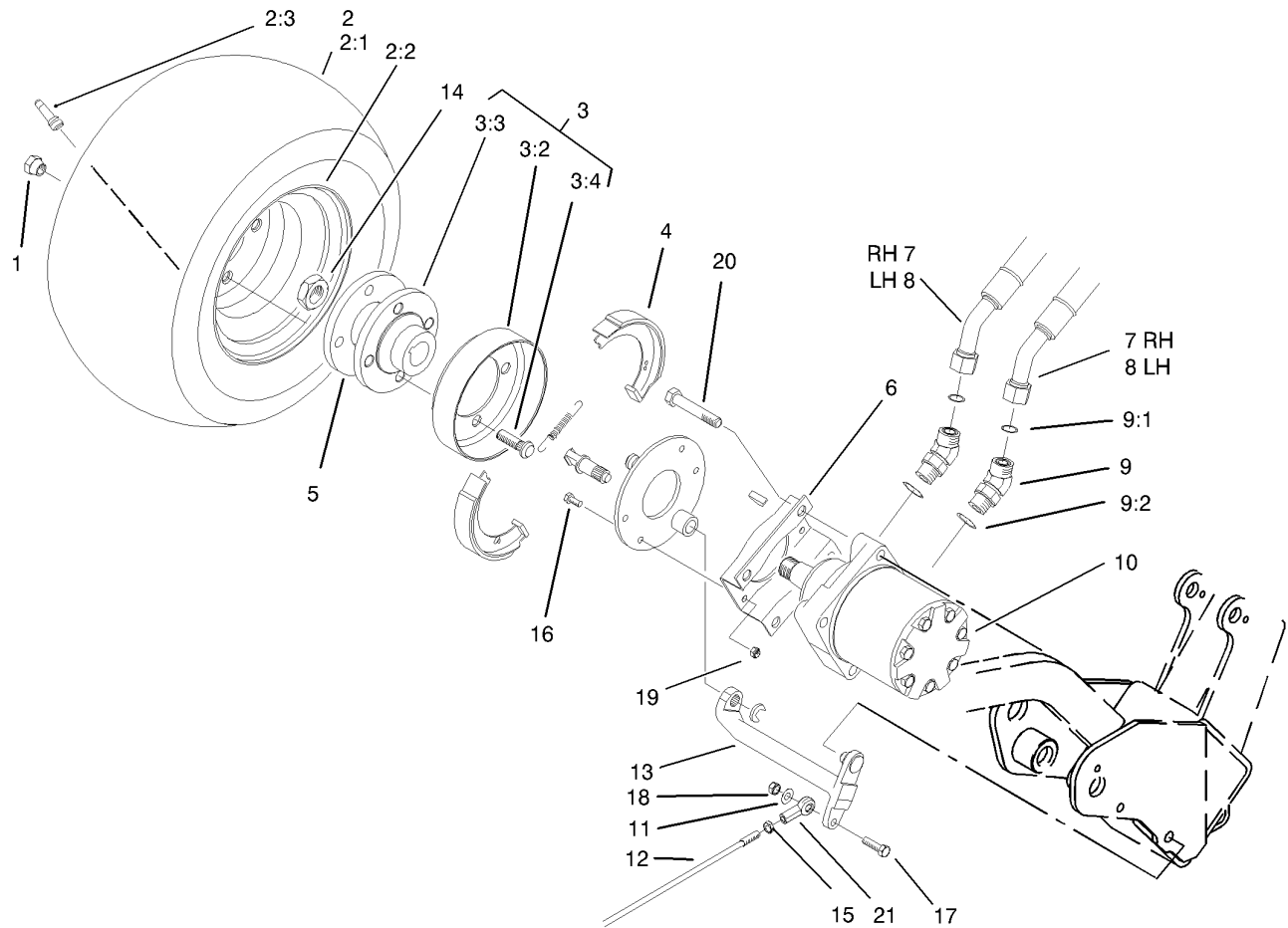
Ref	Part No.	Qty.	Description
1	93-2085-01	1	Rod
2	74-9110	1	Pad-Pedal, Reverse
3	74-9100	1	Pad-Pedal, Forward
4	49-6440-03	1	Pedal-Forward
5	32121-45	1	Pin-Spring
6	33124-020	2	Screw-CARR
7	321-9	1	Screw-HH
9	105-9750-01	1	Plate-Floor
10	32144-14	8	Screw-HWH
11	94-1371	1	Spacer
12	94-1383	1	Pedal-Pivot
13	256-311	4	Bushing-Split
14	33115-090	1	Screw-HH
15	33023-00	2	Nut-Lock
16	107-2550	1	Cable-Control, Traction
16:1	3220-1	2	Nut-Jam
17	33024-00	4	Nut-Lock
18	17-9420	1	Screw-Handle
19	94-1373	1	Bracket-Lock
20	94-1372	1	Bracket-Mow
21	94-1375	1	Trunnion-Bracket, Lock
22	94-1374	1	Trunnion-Bracket, Mow
23	94-1386	1	Shaft-Pedal, Pivot
24	94-1304	1	Cable-Lock, Neutral

Ref	Part No.	Qty.	Description
24:1	3219-14	2	Nut-Hex
25	32128-20	2	Nut-HF
26	94-3489	1	Capscrew-HH
27	94-1300	1	Lock-Neutral
28	3256-1	2	Washer-Flat
29	2411-41	1	Joint-Ball
30	3296-56	1	Nut-Lock, NI
31	93-2092	1	Clamp-Cable
32	33114-016	4	Screw-HH
33	33025-00	1	Nut-Lock
34	93-2279	1	Clamp-Cable
35	3256-24	2	Washer-Flat
36	33115-016	1	Screw-HH
37	33014-00	1	Nut-Hex
38	2411-38	1	Joint-Ball
39	302-5	1	Fitting-Grease
40	3256-22	1	Washer-Flat
41	33093-00	1	Washer-Flat
42	99-3545	1	Spacer



Brake Pedal Assembly

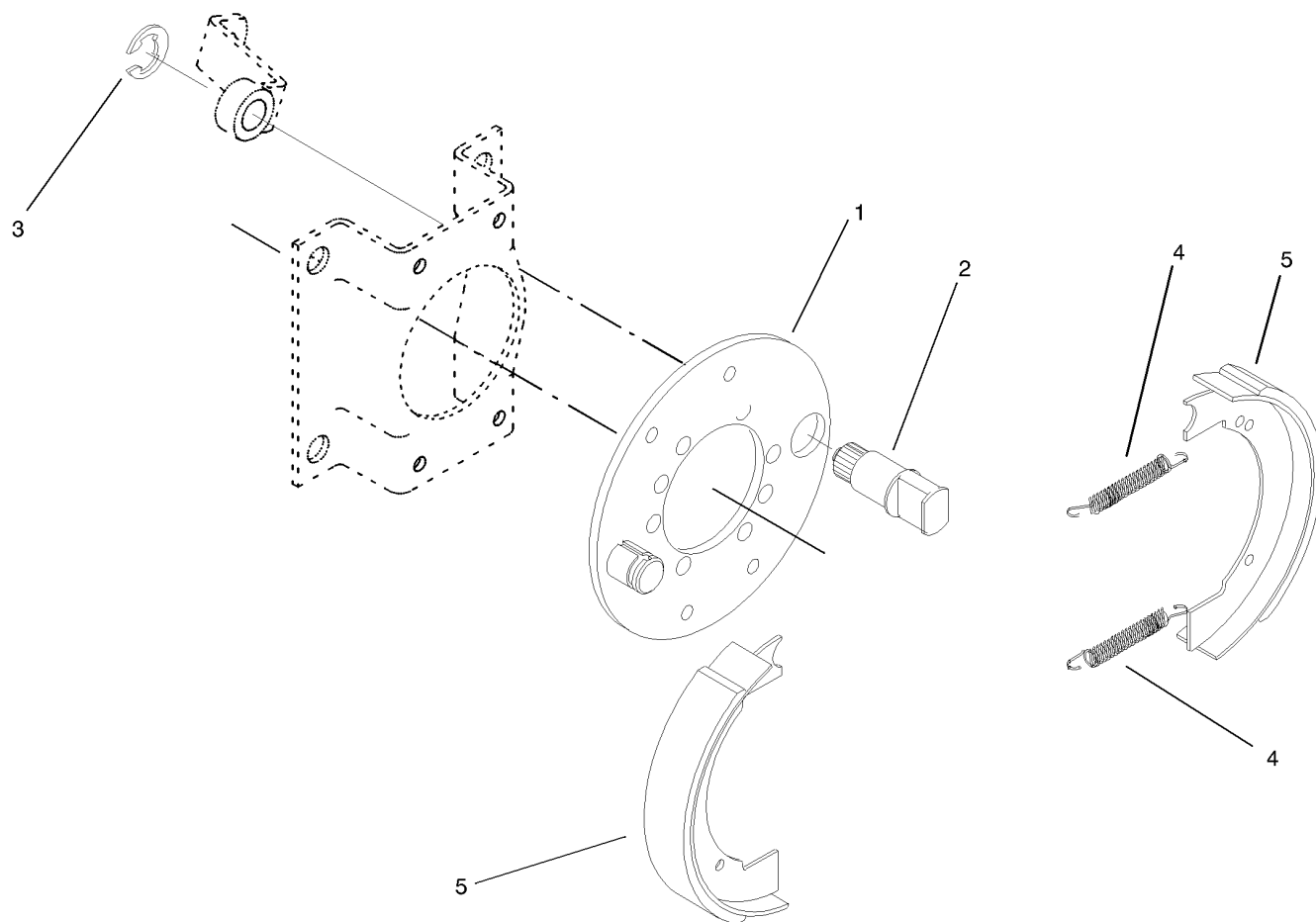
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	33023-00	2	Nut-Lock	25	3272-11	2	Pin-Cotter
2	104-7704	1	Spring-Latch, Brake	26	33024-00	1	Nut-Lock
3	3220-2	2	Nut	27	33114-020	1	Screw-HH
4	93-2010-01	1	Frame	28	32121-50	1	Pin-Spring
5	93-8062	1	Decal-Brake, Parking	29	104-2057	1	Sensor
6	33123-016	2	Screw-CARR	30	75-5470	1	Spacer-Bearing
7	33123-016	1	Screw-CARR				
8	48-8010	1	Washer				
9	49-7810	1	Nut-Lock				
10	32144-14	5	Screw-HWH				
11	104-2096	1	Bracket-Switch				
12	104-7703	1	Hinge-Lower				
13	104-2094	1	Brake-Latch				
14	104-7702	1	Plate-Switch				
15	83-1700	3	Bushing-Flange				
16	93-2073-01	1	Shield-Wheel, LH				
17	93-2072-01	1	Shield-Wheel, RH				
18	283-61	2	Pin-Yoke				
19	282-2	2	Yoke				
20	3272-6	2	Pin-Cotter				
21	93-2075-01	1	Pedal-Brake				
22	93-7629	1	Pad-Foot, Brake				
23	283-87	2	Pin-Clevis				
24	3256-27	2	Washer-Flat				



Front Wheel and Brake Assembly

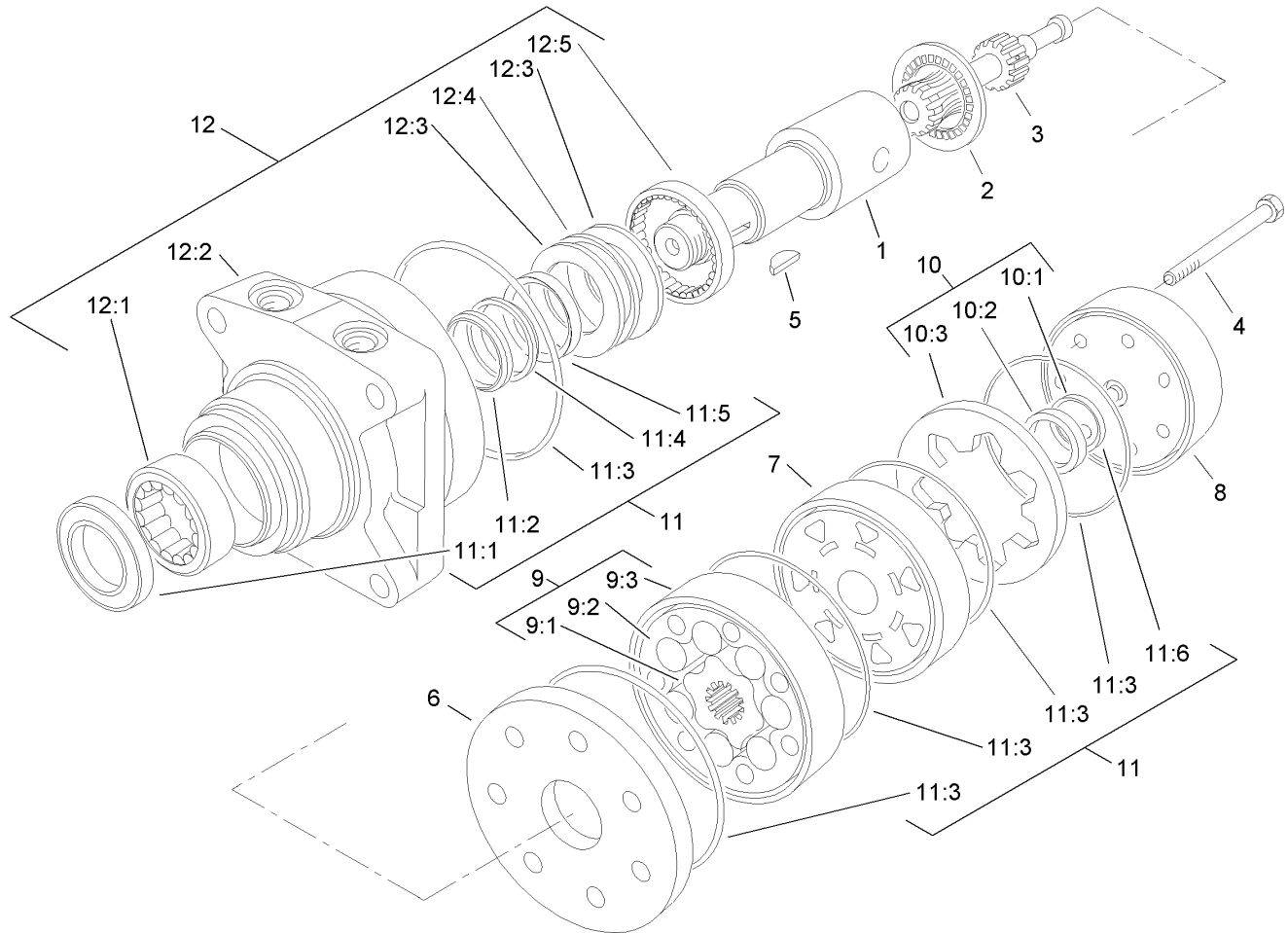
Ref	Part No.	Qty.	Description
1	242-50	8	Nut-Lug
2		2	Wheel And Tire ASM
2:1	70-8500	1	Tire
2:2	94-6116	1	Wheel-Rear
2:3	232-27	1	Stem-Valve
3	10-6821	2	Brake Drum ASM
3:2	10-6850	1	Drum-Brake
3:3	10-6870-03	1	Hub-Wheel
3:4	85-6540	4	Stud-Drive
4	104-7705	2	Brake ASM
5	92-9154-03	2	Plate-Bearing
6	84-2000-03	2	Bracket-Brake
7	94-5357	2	Hose ASM
8	94-5358	2	Hose ASM
9	340-14	4	Fitting-Hyd, 45 DEG
9:1	237-65	1	O-Ring
9:2	237-80	1	O-Ring
10	92-9199	2	Motor-Wheel, HYD
11	3256-23	2	Washer-Flat
12	93-2069	2	Rod-Brake
13	93-2096	2	Lever-Brake
14	26-3790	2	Nut-Lock
15	3220-20	2	Nut-Jam
16	33113-020	8	Screw-HH

Ref	Part No.	Qty.	Description
17	33114-030	2	Screw-HH
18	33024-00	2	Nut-Lock
19	33023-00	8	Nut-Lock
20	33116-060	8	Screw-HH
21	93-2070	2	Clevis-Swivel



Brake Assembly No. 104-7705

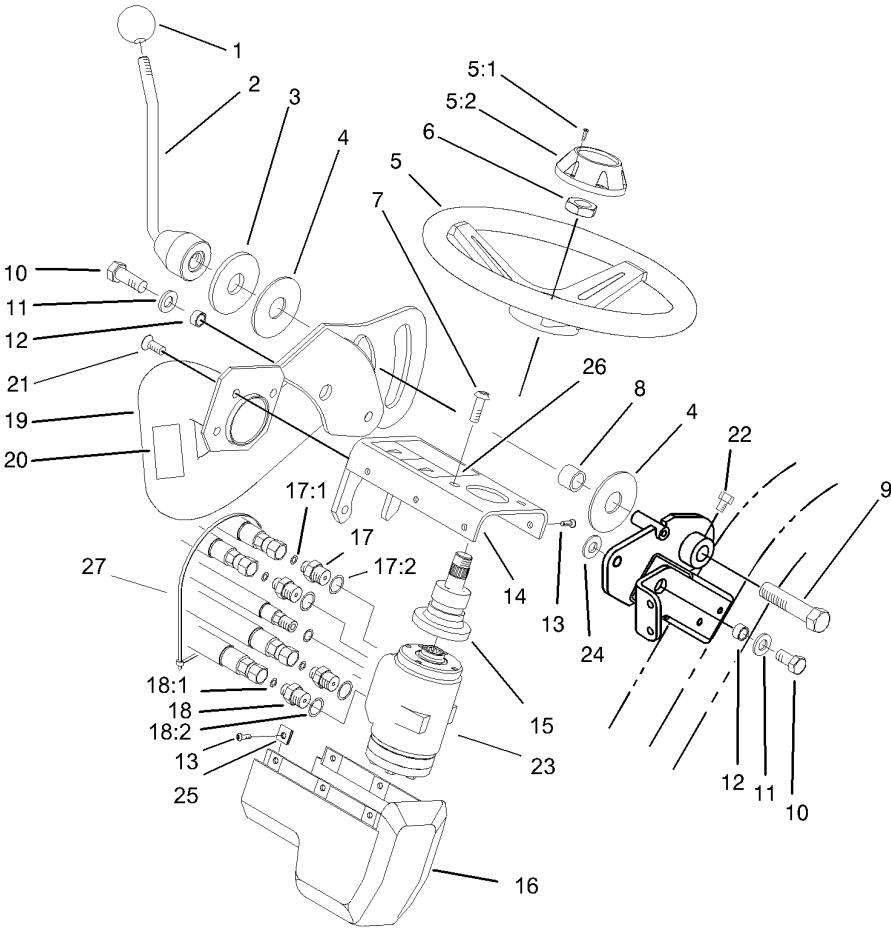
Ref	Part No.	Qty.	Description
1	70-9870	1	Plate-Backing
2	104-7707	1	Shaft-Cam, Brake
3	104-7706	1	E Ring-Bowed
4	70-9880	2	Spring-Return
5	70-9840	2	Shoe-Brake



Hydraulic Motor Assembly No. 92-9199

Ref	Part No.	Qty.	Description
1	76-0860	1	Shaft-Coupling
2	76-0850	1	Bearing-Thrust
3	92-9761	1	Link-Drive
4	92-9762	7	Screw-HH
5	3257-42	1	Key-Woodruff
6	76-0870	1	Plate-Wear
7	76-0840	1	Manifold
8	76-0940	1	End Cover ASM
9	92-9763	1	Rotor Set
9:1		1	Rotor
9:2		1	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	94-8178	1	Seal Kit
11:1		1	Seal-Dirt & Water
11:2		1	Washer-Backup
11:3		5	Seal-Ring
11:4		1	Washer-Backup
11:5		1	Seal-Inner
11:6		1	Seal-Commutator
12	76-0810	1	Housing ASM

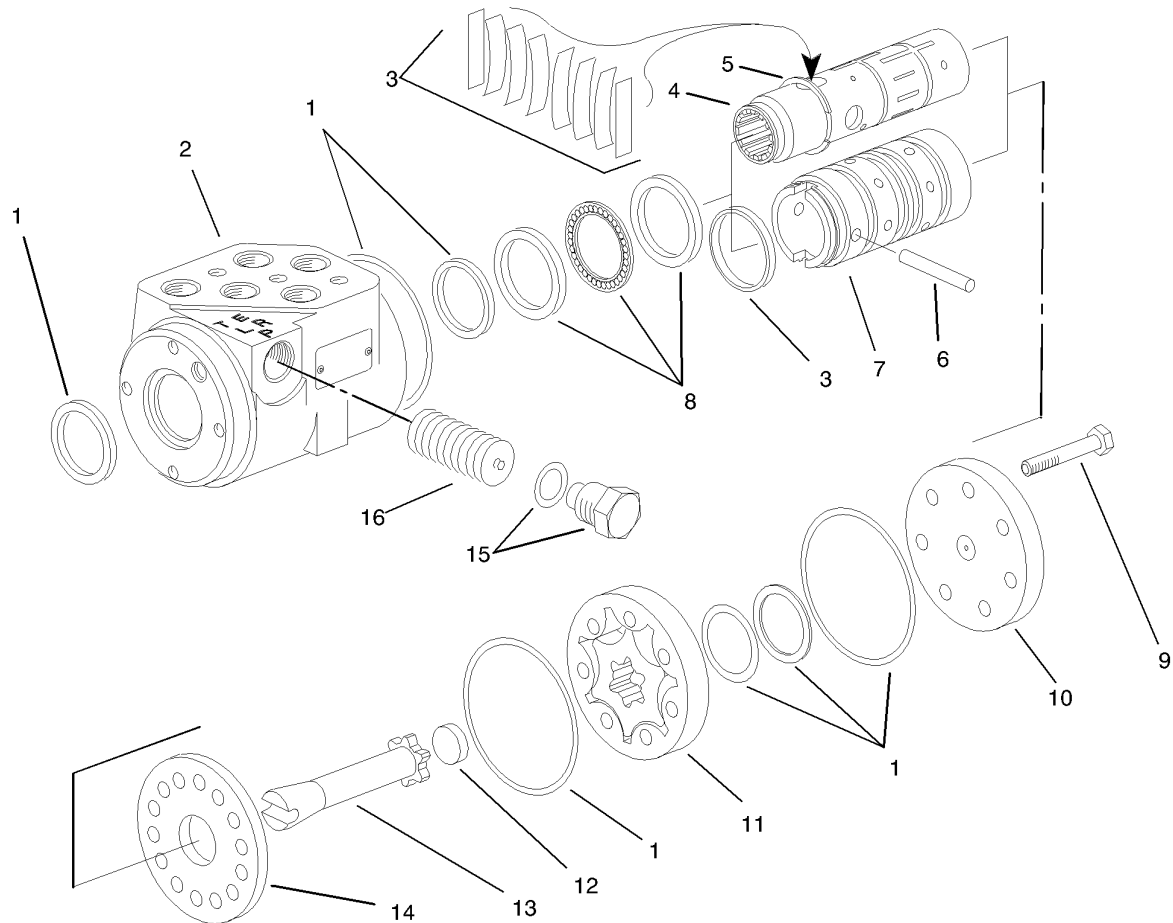
Ref	Part No.	Qty.	Description
12:1		1	Bearing
12:2		1	Housing
12:3		2	Washer-Thrust
12:4		1	Bearing-Thrust
12:5		1	Bearing



Steering Arm Assembly

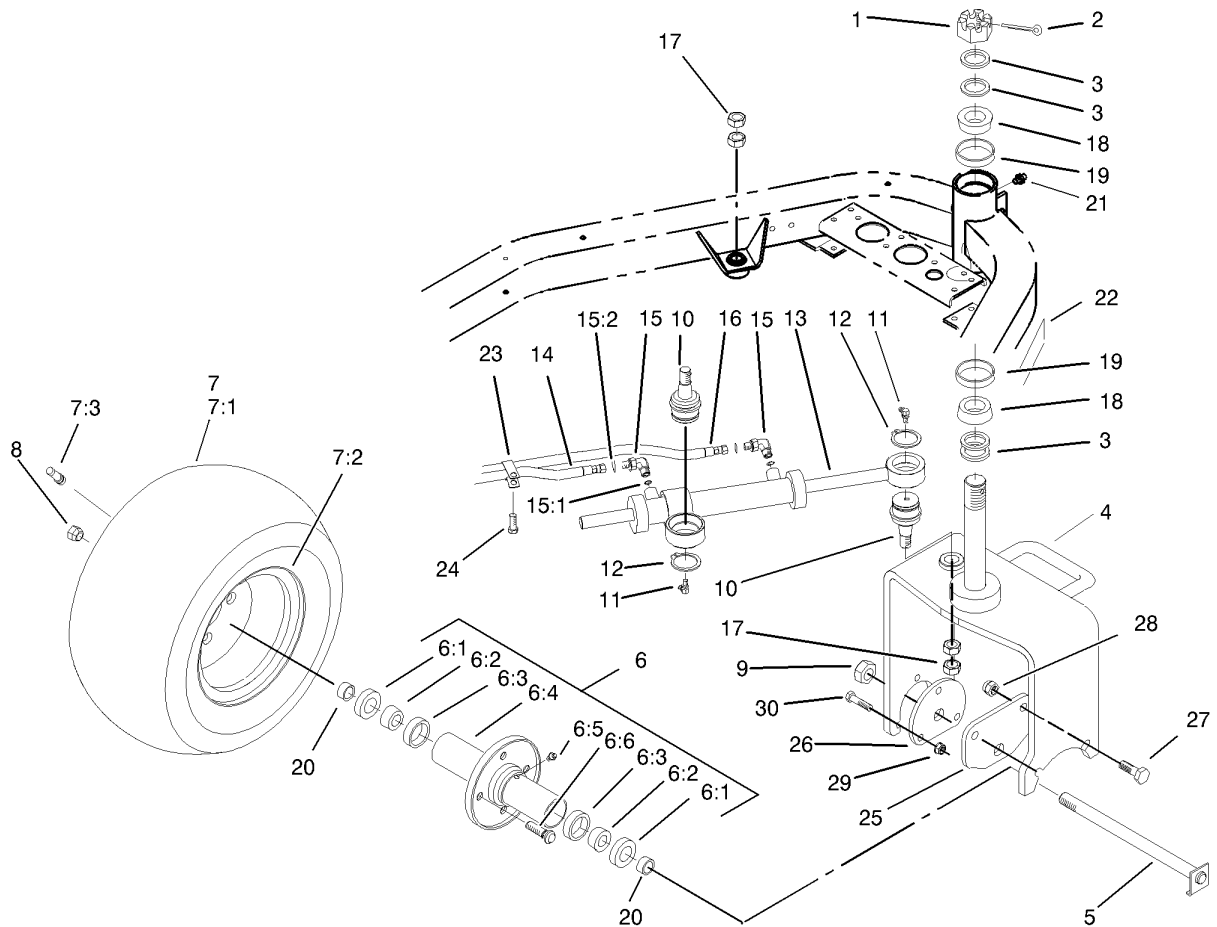
Ref	Part No.	Qty.	Description
1	233-48	1	Knob
2	93-2400-03	1	Handle-Lockup
3	83-0760	1	Spacer-Plate, Lockup
4	83-0740	2	Disc-Friction
5	75-0560	1	Wheel-Steering
5:1	32144-21	1	Screw
5:2	68-5140	1	Cap-Wheel, Steering
6	94-9952	1	Nut-Hex
7	33103-016	4	Screw-HHF
8	83-0730	1	Spacer-Lockup
9	93-2199	1	Screw-Hh, RH
10	325-4	2	Screw-HH
11	3256-26	2	Washer-Flat
12	47-2890	2	Bushing
13	3274-39	6	Screw-HSBH
14	105-9791-03	1	Steering Cover ASM
15	105-0425	1	Steering Column ASM
16	83-0810	1	Cover-Steering
17	340-1	2	Adapter
17:1	237-35	1	O-Ring
17:2	237-42	1	O-Ring
18	340-2	2	Fitting-Hyd, Straight
18:1	237-22	1	O-Ring
18:2	237-42	1	O-Ring

Ref	Part No.	Qty.	Description
19	93-2115-01	1	Arm-Steering
20	93-8068	1	Decal-Arm, Steering
21	3274-80	3	Screw-HH
22	3242-2	1	Screw-SQH
23	105-0424	1	Valve-Control, Steering
24	65-6390	1	Washer-Thrust, Plain
25	3290-277	6	Nut-Speed
26	93-8063	1	Decal-Caution, Ce
26	104-2053	1	Decal-Warning
27	3290-379	1	Tie-Cable



Steering Control Valve Assembly No. 105-0424

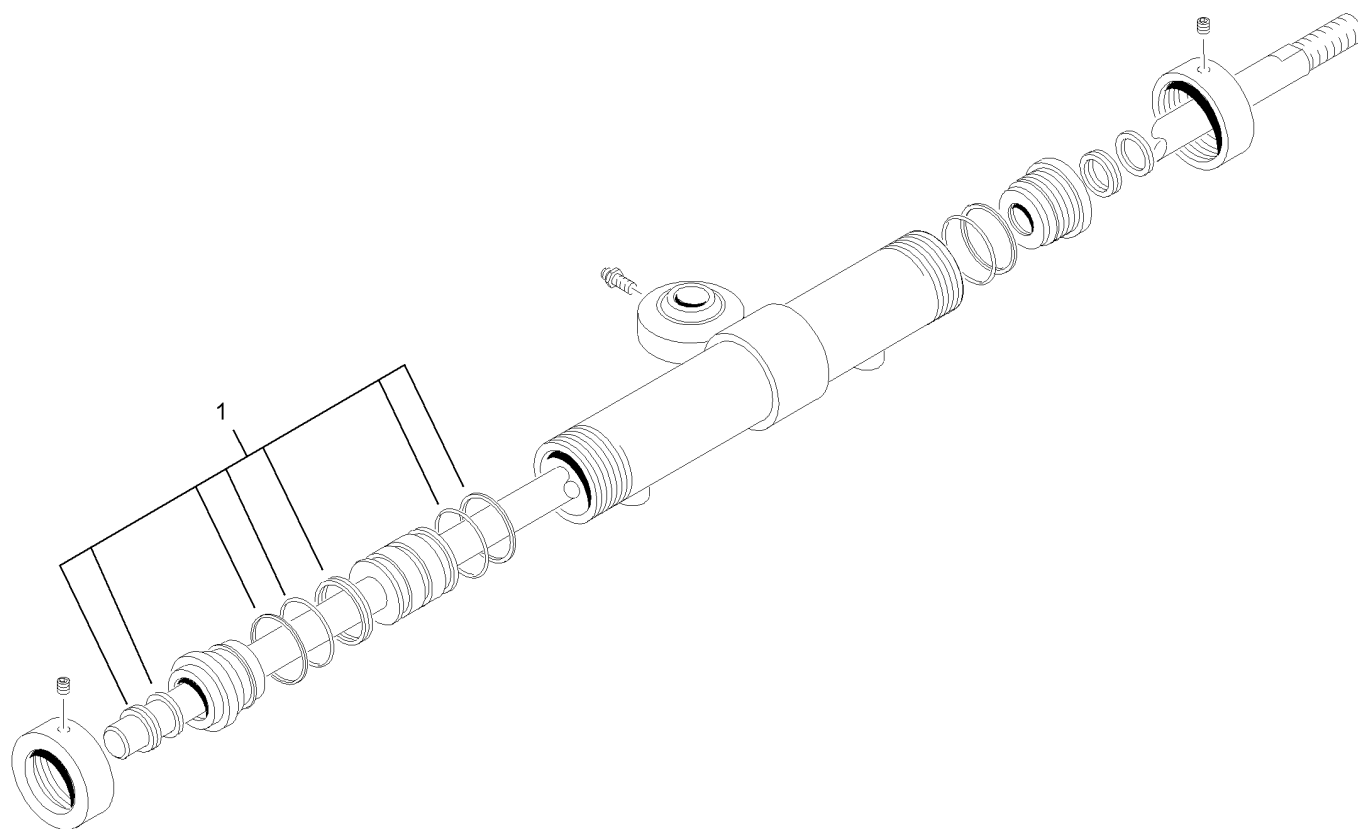
Ref	Part No.	Qty.	Description				
1	94-4099	1	Seal Kit				
2		1	Housing				
3	94-4095	1	Centering Spring Kit				
4		1	Spool				
5	94-4098	1	Ring-Retaining				
6	94-4094	1	Pin				
7		1	Sleeve				
8	92-3839	1	Bearing Kit				
9	105-2938	7	Screw-Cap				
10	94-4089	1	Cap-End				
11	105-2939	1	Gerotor ASM				
12	105-2940	1	Spacer				
13	94-4093	1	Drive				
14	94-4092	1	Plate-Wear				
15	99-5511	1	Plug ASM				
16	99-5500	1	Valve-Relief				



Rear Wheel Assembly

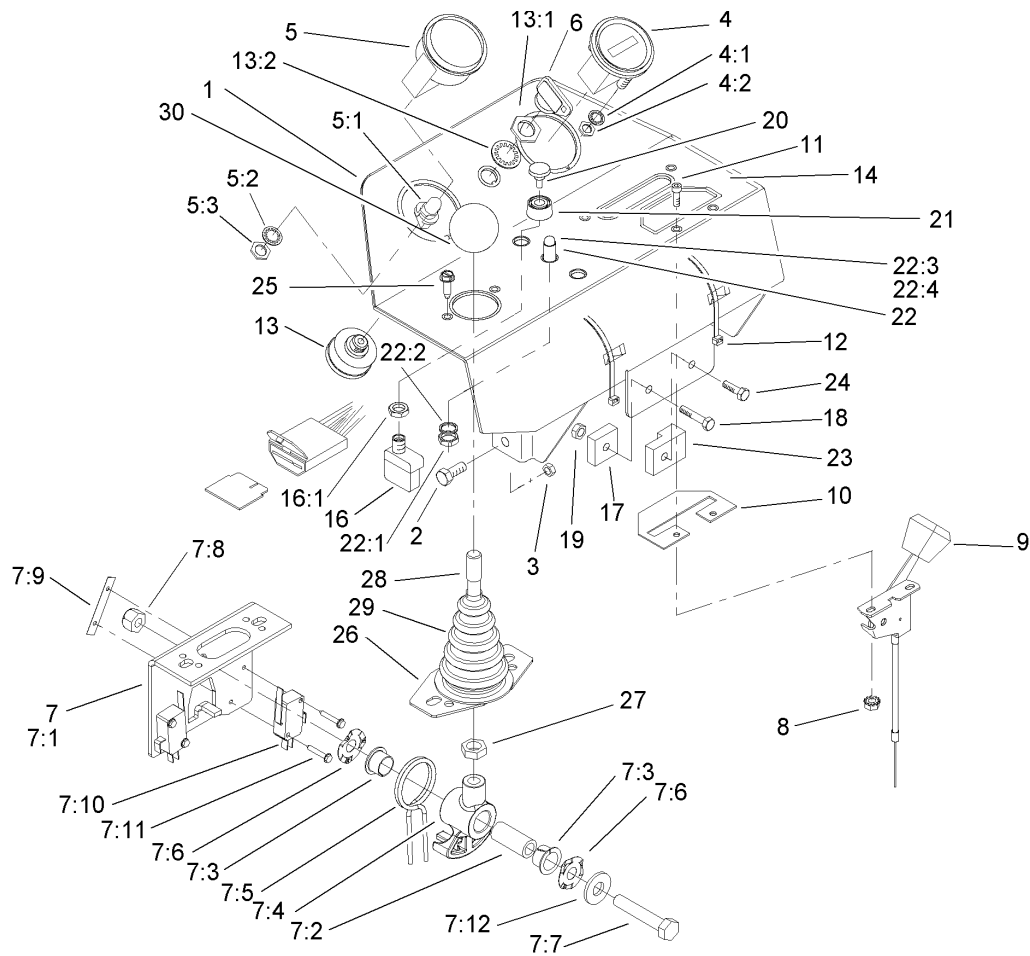
Ref	Part No.	Qty.	Description
1	32136-9	1	Nut-SHH
2	3272-37	1	Pin-Cotter
3	18-6320	4	Washer-Steering
4	99-1492-01	1	Castor Fork ASM
5	70-8370	1	Bolt
6	72-9710	1	Hub-Tire, Sulky
6:1	253-111	2	Seal-Oil
6:2	254-78	2	Bearing-Cone
6:3	254-79	2	Bearing-Roller, Cup
6:4	75-9440	1	Hub ASM
6:5	302-55	1	Fitting-Grease
6:6	10-6830	4	Stud-Type, Drive
7		1	Wheel And Tire ASM
7:1	70-8500	1	Tire
7:2	94-6116	1	Wheel-Rear
7:3	232-27	1	Stem-Valve
8	242-50	4	Nut-Lug
9	3296-67	1	Nut-Lock NI
10	92-5838	2	Joint-Ball
11	302-60	2	Fitting-Grease
12	32151-104	2	Ring-Retaining, External
13	93-2122	1	Steering Cylinder ASM
14	93-2270	1	HYD Hose ASM
15	340-132	2	Fitting-Hyd, 90 DEG

Ref	Part No.	Qty.	Description
15:1	237-78	1	O-Ring
15:2	237-21	1	O-Ring
16	93-2269	1	HYD Hose ASM
17	3220-6	4	Nut-Jam
18	254-70	2	Bearing-Cone
19	254-61	2	Bearing-Cup
20	70-8490	2	Spacer-Spindle, Rear
21	302-5	1	Fitting-Grease
22	99-1493	1	Decal
23	92-5753	1	Clamp-Hose
24	32144-14	1	Screw-HWH
25	99-1485-01	1	Plate-Adapter, Motor
26	99-1486-01	1	Plate-Adapter
27	325-6	2	Screw-HH
28	3296-23	2	Nut-Lock, NI
29	3296-39	3	Nut-Lock, NI
30	323-8	3	Screw-HH



Steering Cylinder Assembly No. 93-2122

Ref	Part No.	Qty.	Description
1	94-4398	1	Seal Repair Kit

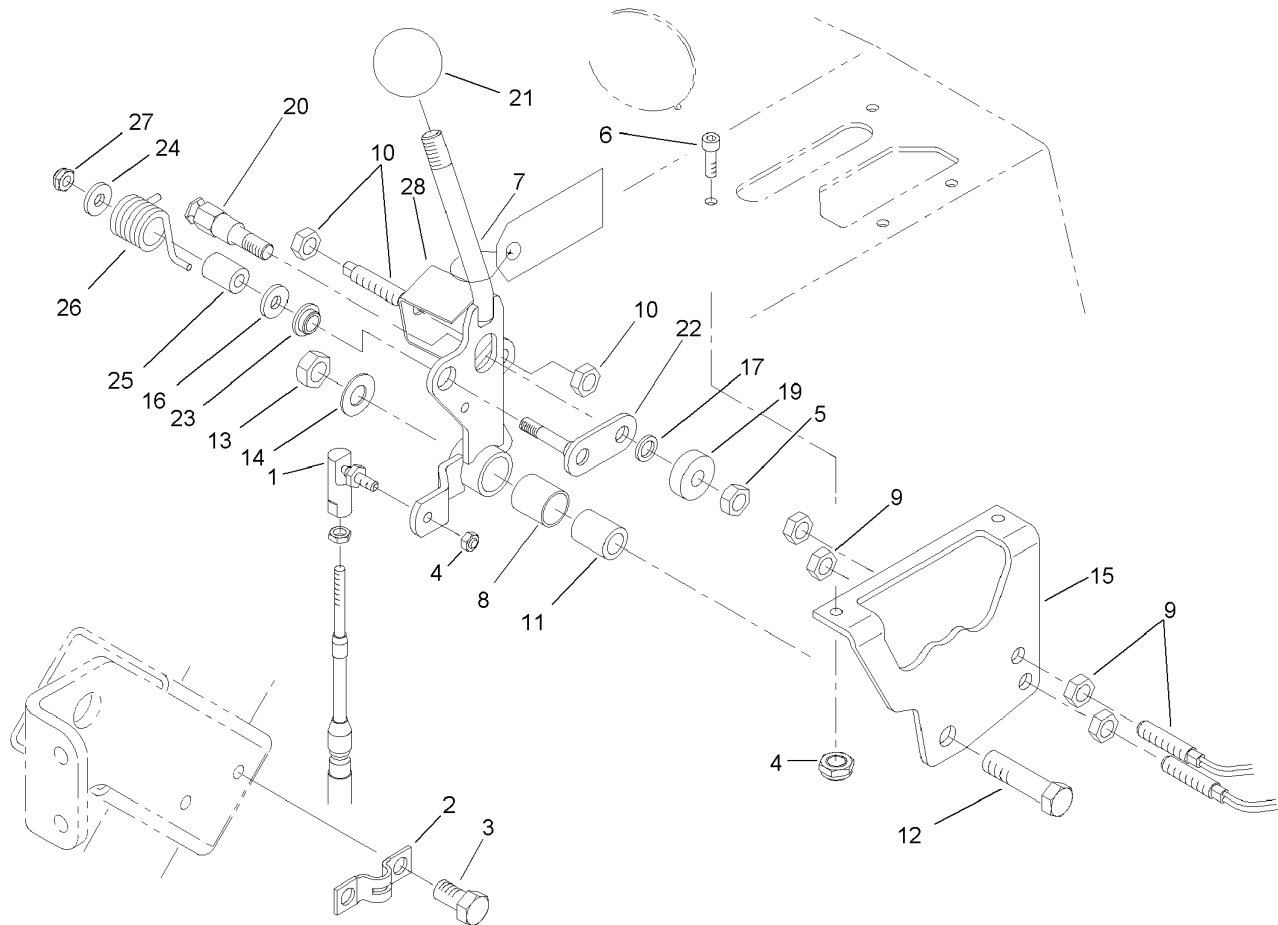


Console Assembly

Ref	Part No.	Qty.	Description
1	100-3185-03	1	Console ASM
2	33114-020	4	Screw-HH
3	33024-00	4	Nut-Lock
4	66-2950	1	Gauge-Hourmeter
4:1	3255-20	2	Washer-Lock
4:2	3217-25	2	Nut-Hex
5	93-7053	1	Cluster-Lamp, Warning
5:1	219-17	4	Bulb
5:2	3254-1	1	Washer-Lock, Int
5:3	3217-26	1	Nut-Hex
6	63-8360	1	Key-Ignition
7		1	Joystick Bracket ASM
7:1	106-4168-03	1	Bracket-Joystick
7:2	106-4192	1	Spacer
7:3	93-5547	2	Bushing-Nylon
7:4	105-7507	1	Hub-Pivot, Joystick
7:5	105-8289	1	Spring-Torsion
7:6	106-4193	2	Washer-Finger, Spring
7:7	322-9	1	Screw-HH
7:8	3296-29	1	Nut-Lock, NI
7:9	3290-354	2	Nut-Speed
7:10	111332	2	Switch
7:11	147665	4	Screw-HH
7:12	3256-3	1	Washer-Flat

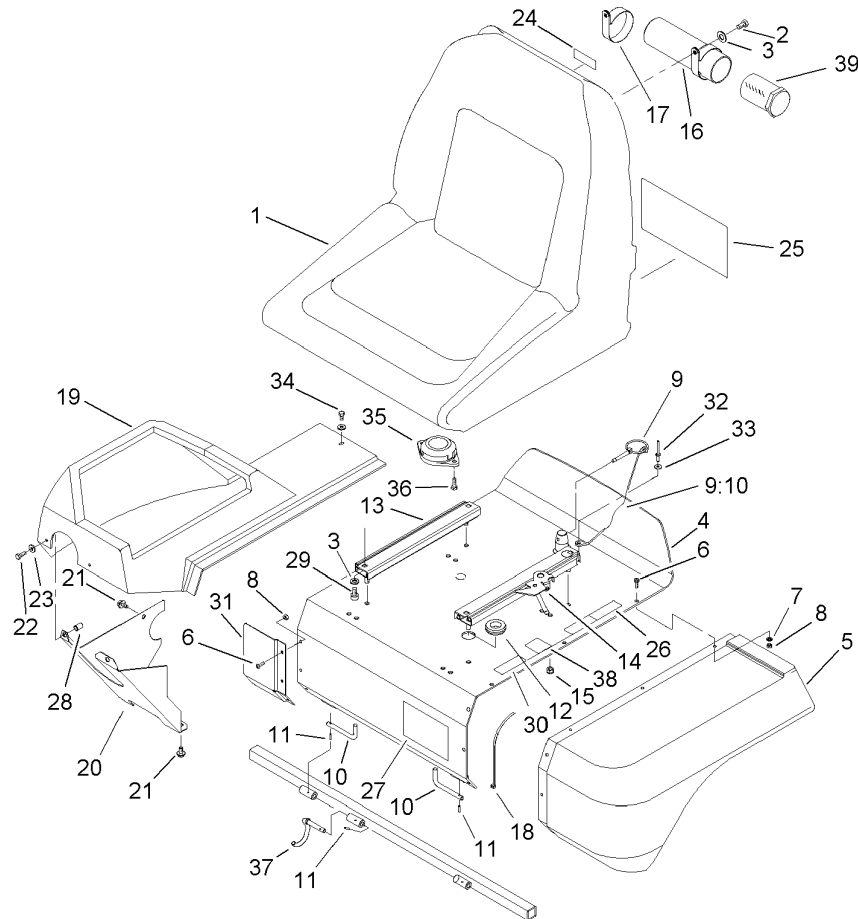
Ref	Part No.	Qty.	Description
8	32149-8	2	Nut-Keps
9	99-8150	1	Control-Throttle
10	99-8195-03	1	Plate-Cover
11	3273-26	2	Screw-HSH
12	3290-378	2	Tie-Cable
13	27-2360	1	Switch-Key
13:1	218-446	1	Nut-Hex
13:2	218-447	1	Washer-Lock
14	100-3183	1	Decal-Panel, Control
16	72-9760	1	Switch
16:1	218-498	1	Locknut
17	92-2538	1	Timer-Plug, Glow
18	33113-030	1	Screw-HH
19	33023-00	2	Nut-Lock
20	43-6280	1	Button-Push
21	43-6420	1	Bezel
22	44-2212	1	Amber Indicator Light ASM
22:1	218-535	1	Nut-Hex
22:2	218-536	1	Washer-Lock
22:3		1	Bulb
22:4	218-562	1	Lens
23	99-9666	1	Module
24	33113-020	1	Screw-HH
25	32144-19	2	Screw-SHWH

13



Functional Control Lever Assembly

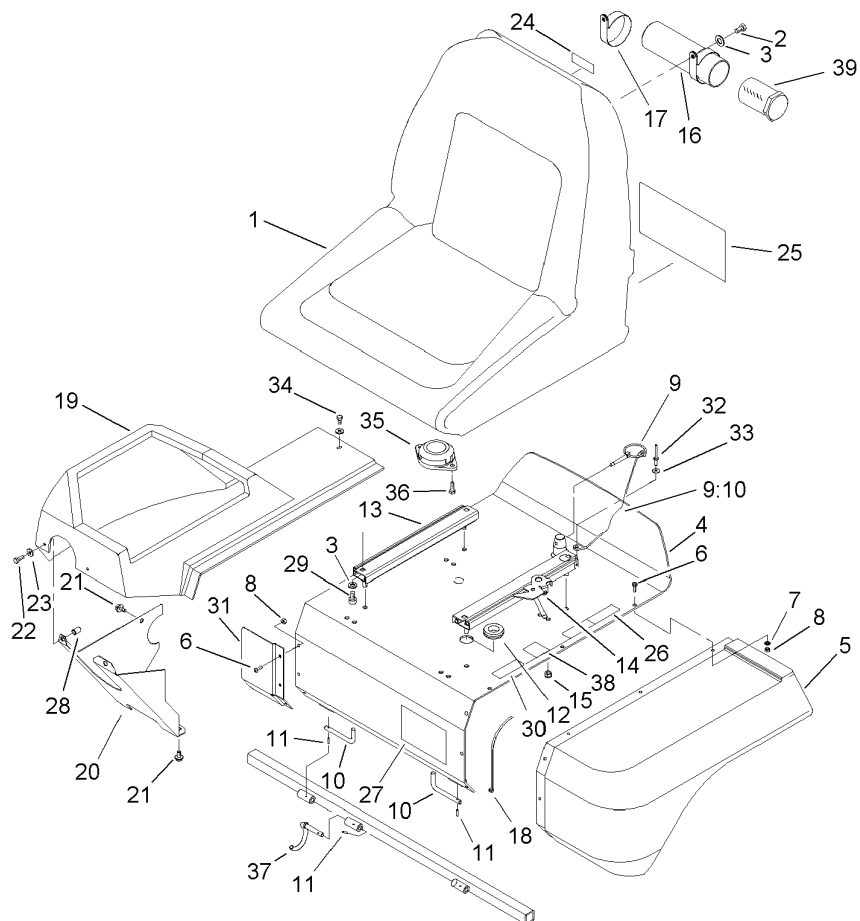
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	2411-38	1	Joint-Ball	26	94-9620	1	Spring-Torsion
2	93-2279	1	Clamp-Cable	27	33023-00	1	Nut-Lock
3	32144-14	2	Screw-HWH	28	106-6356	1	Shield-Switch
4	3296-27	2	Nut-Lock NI				
5	33024-00	1	Nut-Lock				
6	3273-26	2	Screw-HSH				
7	94-9611	1	Handle				
8	256-311	1	Bushing-Split				
9	93-2055	2	Sensor-Switch, Reed				
10	93-2056	1	Actuator-Switch, Reed				
11	94-1378	1	Tube-Pivot, Handle				
12	33115-040	1	Screw-HH				
13	33025-00	1	Nut-Lock				
14	3256-24	1	Washer-Flat				
15	94-6398	1	Bracket-Traction				
16	3256-23	1	Washer-Flat				
17	75-5470	1	Spacer-Bearing				
19	251-259	1	Bearing-Ball				
20	94-9617	1	Pin-Spring				
21	233-42	1	Knob				
22	94-9614	1	Pivot-Roller				
23	94-9619	1	Bushing				
24	3256-67	1	Washer-Flat				
25	94-9618	1	Spacer-Spring				



Seat Assembly

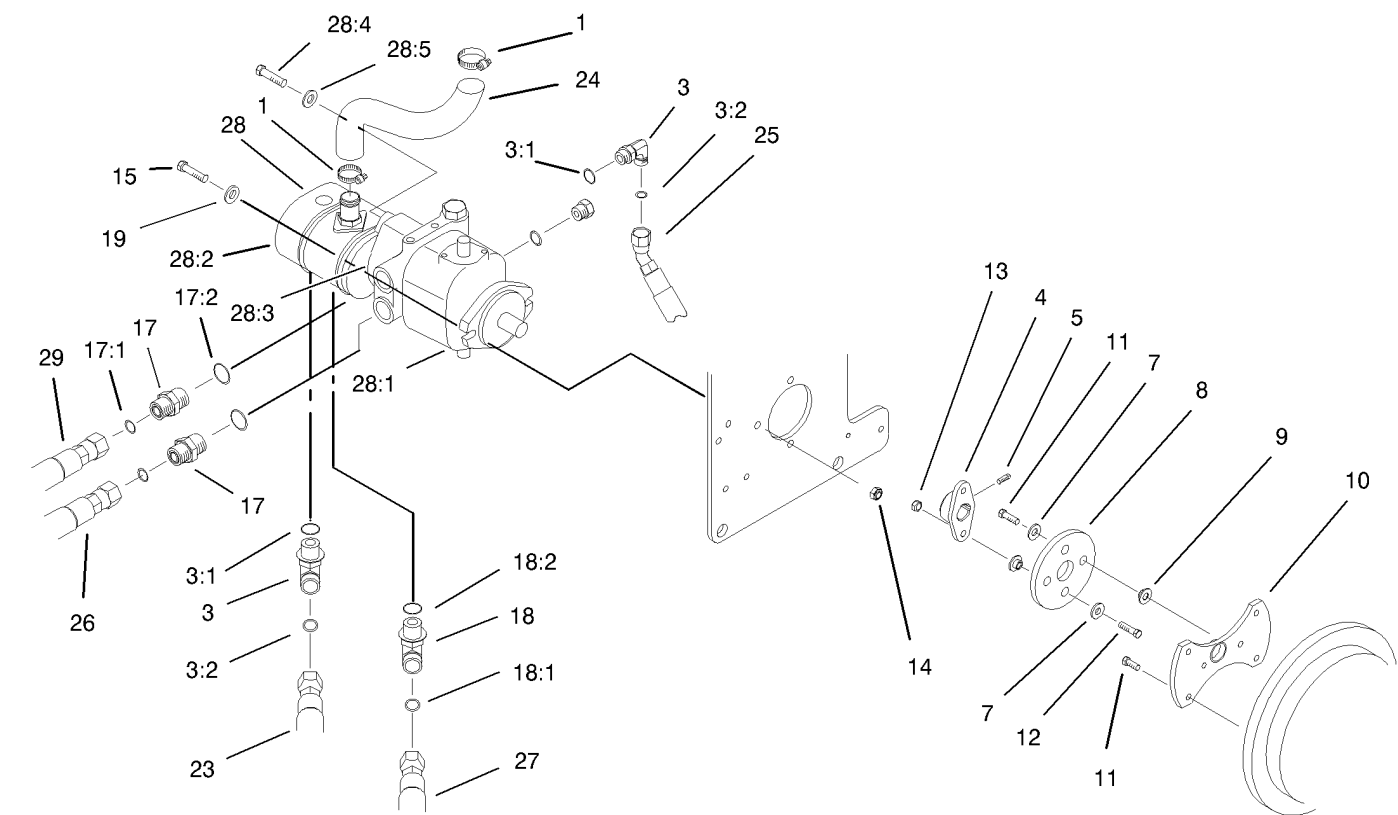
Ref	Part No.	Qty.	Description
1	100-3187	1	Seat ASM
2	322-2	2	Screw-HH
3	3256-23	6	Washer-Flat
4	93-2135-03	1	Support-Seat
5	93-2128	1	Panel-Base, Seat
6	3274-39	9	Screw-HSBH
7	3256-77	6	Washer-Flat
8	3296-12	9	Nut-Lock
9	77-3780	1	Pin ASM
9:10	28-8070	1	Lanyard
10	93-2422	2	Rod-Pivot, Seat
11	32121-7	3	Pin-Spring
12	237-100	1	Grommet
13	92-8990	1	Adjuster-7in
14	92-8991	1	Adjuster W/latch
15	3296-29	4	Nut-Lock, NI
16	104-7050	1	Housing-Manual
17	2412-133	2	R-Clamp
18	3290-378	1	Tie-Cable
19	99-4208	1	Shroud-Console
20	94-4547-03	1	Panel-Lower, RH
21	32144-14	2	Screw-HWH
22	33113-016	2	Screw-HH
23	3256-1	3	Washer-Flat

Ref	Part No.	Qty.	Description
24	93-6686	1	Decal-Oil, HYD
25	106-6381	1	Decal-Service, French
25	106-6380	1	Decal-Service, Spanish
25	106-6379	1	Decal-Service
25	106-6382	1	Decal-Service, German
25	106-6383	1	Decal-Service, Swedish
25	106-6384	1	Decal-Service, Italian
25	106-6388	1	Decal-Service, Danish
25	106-6387	1	Decal-Service, Finnish
25	106-6386	1	Decal-Service, Norwegian
25	106-6389	1	Decal-Service, Dutch
25	106-6390	1	Decal-Service, Japanese
25	106-6385	1	Decal-Service, Portuguese
26	93-6689	1	Decal-No Riders
27	94-2579	1	Decal
28	93-5447	2	Nut-Clinch
29	3274-12	4	Screw-HSH
30	93-7252	1	Decal
31	94-4546-03	1	Panel-Extension
32	3290-282	1	Rivet-Pop
33	3256-49	1	Washer-Flat
34	33113-012	1	Screw-HH
35	92-6282	1	Switch-Seat
36	32144-10	2	Screw-HWH



Seat Assembly (continued)

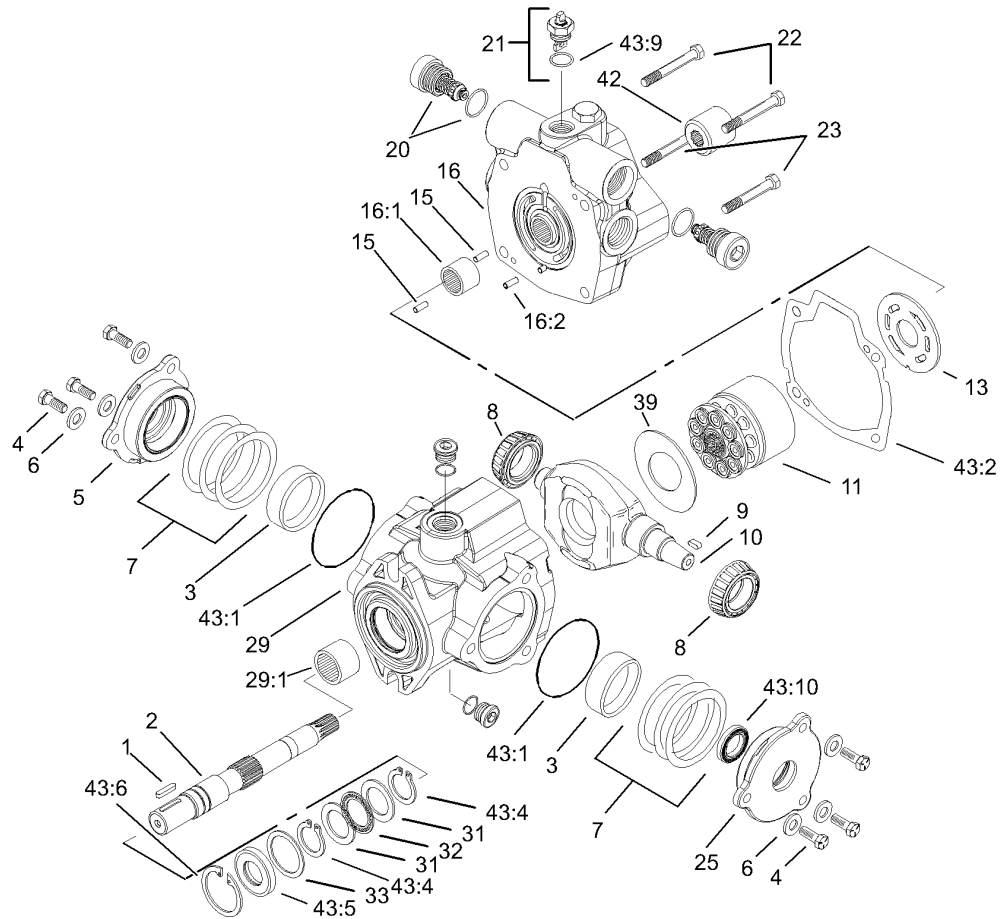
Ref	Part No.	Qty.	Description
37	99-4247	1	Wire-Hook
38	105-4674	1	Decal-Noise, Ce
39	104-7048	1	Cap-Housing



Hydrostat and Gear Pump Drive Assembly

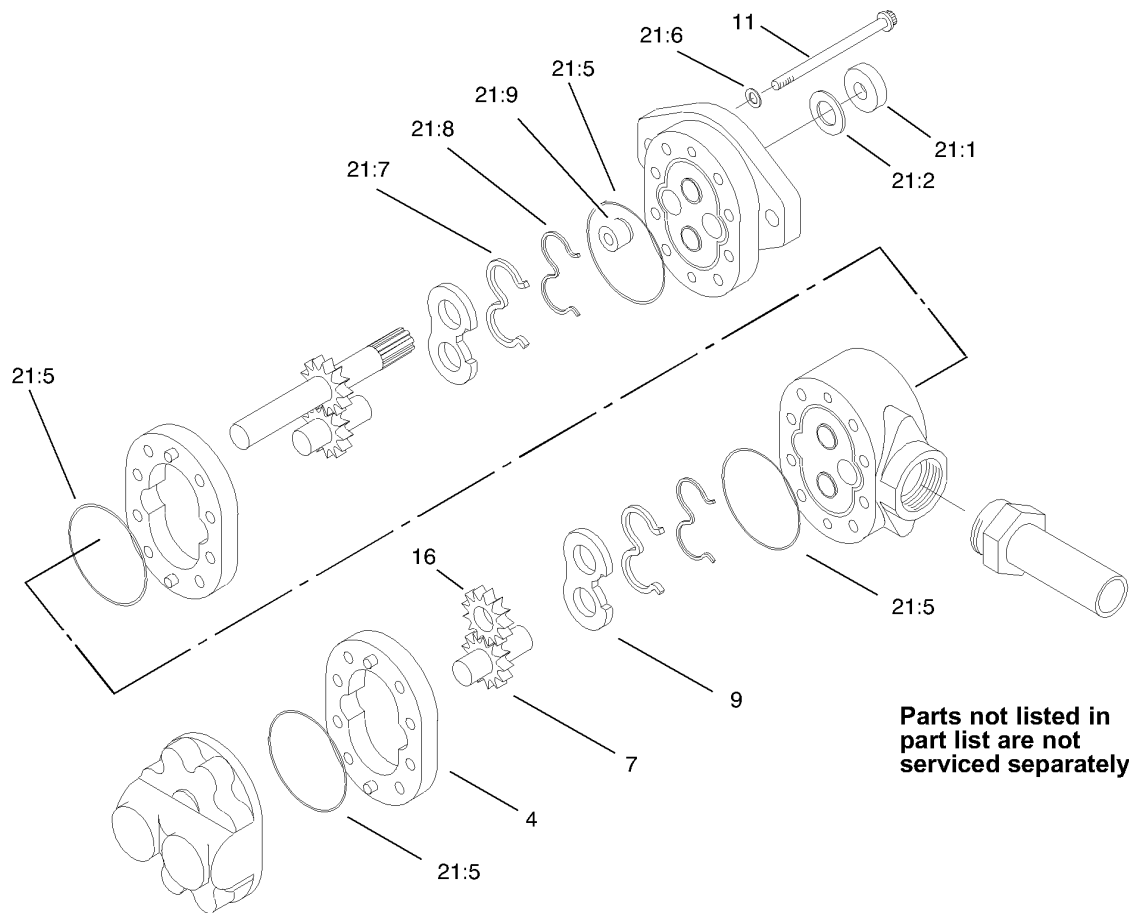
Ref	Part No.	Qty.	Description
1	2412-34	2	Clamp-Hose
3	340-18	2	Fitting-Hyd, 90 DEG
3:1	237-79	1	O-Ring
3:2	237-22	1	O-Ring
4	93-2589	1	Hub-Pump
5	3241-6	2	Screw-SQH
7	3256-3	2	Washer-Flat
8	80-8650	1	Coupling-Drive
9	27-6600	4	Spacer-Coupling
10	93-2220-03	1	Adapter-Pump
11	33114-020	6	Screw-HH
12	33114-030	1	Screw-HH
13	33024-00	2	Nut-Lock
14	33025-00	2	Nut-Lock
15	33115-040	2	Screw-HH
17	340-8	2	Adapter
17:1	237-65	1	O-Ring
17:2	237-81	1	O-Ring
18	340-17	1	Fitting-Hyd, 90 DEG
18:1	237-65	1	O-Ring
18:2	237-80	1	O-Ring
19	100-4852	2	Washer-Hardened
23	105-4339	1	Hose ASM
24	99-1905	1	Hose-Inlet, Pump

Ref	Part No.	Qty.	Description
25	105-9794	1	Hose ASM
26	99-4220	1	Hose ASM
27	99-4216	1	Hose ASM
28		1	Hydrostat/gear Pump ASM
28:1	105-0494	1	Hydrostat ASM
28:2	104-7737	1	Gear Pump ASM
28:3	60-3520	1	O-Ring
28:4	3274-1	2	Screw-HSH
28:5	3256-24	2	Washer-Flat
29	99-4217	1	Hose ASM



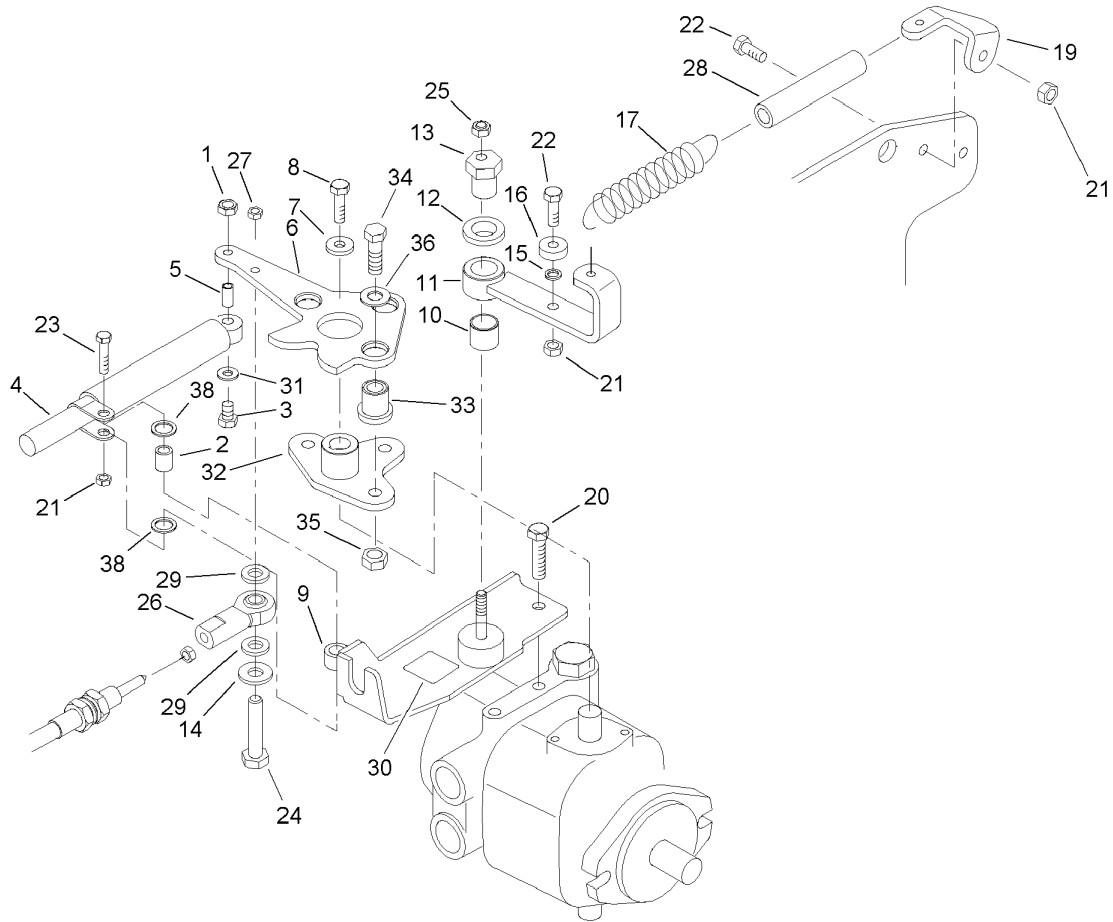
Hydrostat Assembly No. 105-0494

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	94-3645	1	Key	32	252-66	1	Bearing-Thrust
2	94-6359	1	Shaft-Drive	33	33-3720	1	Washer
3	104-4046	2	Bearing-Cup	39	98-4635	1	Insert-Plate, Cam
4	98-4640	6	Screw-Cap	42	74-9040	1	Coupler
5	98-4644	1	Plate-Cover	43	105-3844	1	Seal Repair Kit
6	105-9762	6	Washer	43:1	100-3179	2	O-Ring
7	100-3182	2	Shim Kit	43:2	33-4930	1	Gasket-Housing
8	98-4639	2	Bearing-Cone	43:4	32151-29	2	Ring-Retaining
9	94-3646	1	Key	43:5	104-4861	1	Seal-Shaft
10	100-3175	1	Camplate	43:6	32151-13	1	Ring-Retaining
11	76-6070	1	Rotating Kit	43:9		1	O-Ring
13	100-3180	1	Valve-Plate	43:10		1	Seal-Shaft
15	76-6150	2	Pin-Dowel				
16	105-3813	1	Endcover Sub ASM				
16:1	94-6368	1	Bearing				
16:2		1	Pin-Roll				
20	105-3812	2	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				
29:1	94-6363	1	Bearing				
31	252-71	2	Washer-Thrust				



Gear Pump Assembly No. 104-7737

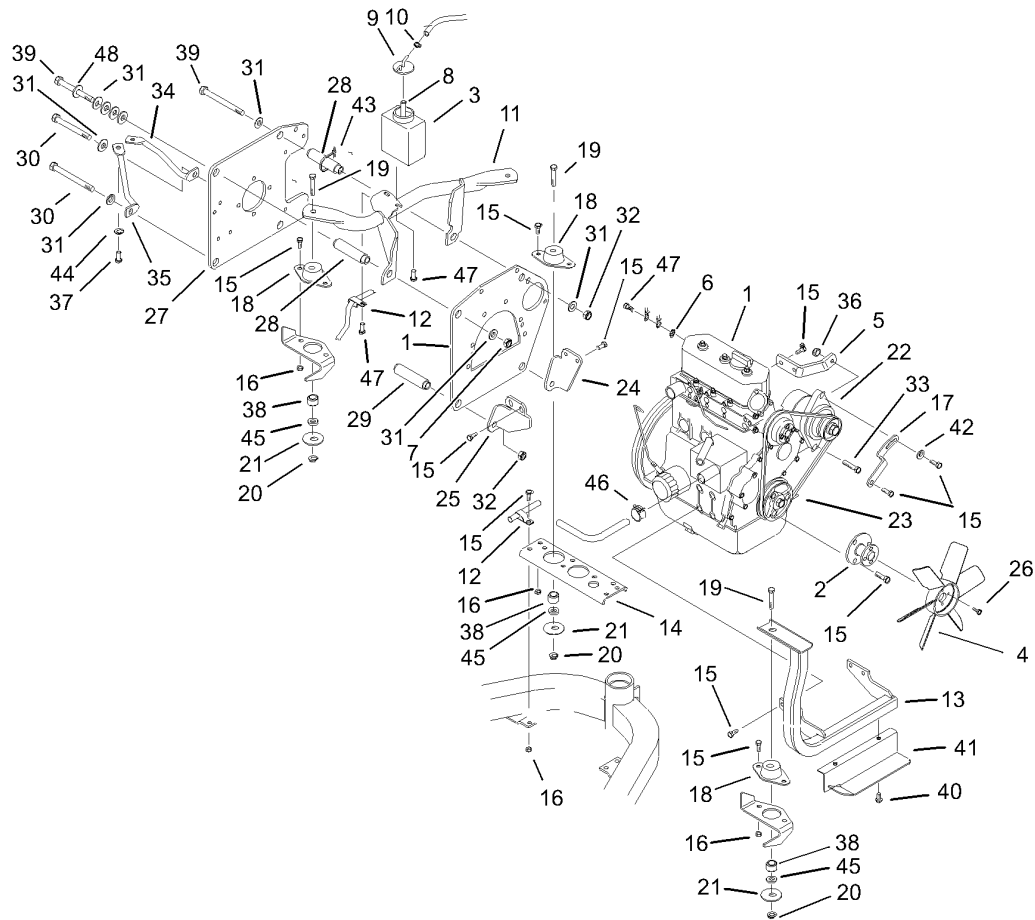
Ref	Part No.	Qty.	Description				
4	95-4364	1	Body				
7	95-4366	1	Gear-Idler				
9	95-4368	2	Plate-Wear				
11	94-8158	8	Screw-Cap				
16	95-4373	1	Gear-Fit, Slip				
21	94-8161	1	Seal Repair Kit				
21:1	49-2640	1	Seal-Shaft				
21:2	60-5890	1	Washer				
21:5		4	O-Ring				
21:6	94-8160	4	Washer				
21:7	95-4369	2	Seal				
21:8	95-4367	2	Gasket				
21:9	94-3011	1	Plug				



Neutral System Assembly

Ref	Part No.	Qty.	Description
1	33023-00	1	Nut-Lock
2	94-8197	1	Tube-Pivot
3	33113-035	1	Screw-HH
4	76-8870	1	Lever Damper ASM
5	94-1312	1	Spacer-Pivot
6	94-3488-03	1	Lever-Pump
7	88-7200	1	Washer-Flat
8	3210-6	1	Screw-HH
9	100-9846	1	Support-Cable
10	94-9609	1	Bushing-Straight
11	94-4527	1	Arm-Neutral
12	3-6498	1	Washer-Thrust
13	93-2111	1	Stud-Traction
14	3256-22	1	Washer-Flat
15	75-5470	1	Spacer-Bearing
16	251-259	1	Bearing-Ball
17	99-4254	1	Spring-Extension
19	99-4276	1	Bracket-Spring
20	323-4	2	Screw-HH
21	33024-00	3	Nut-Lock
22	33114-025	2	Screw-HH
23	33114-030	1	Screw-HH
24	321-8	1	Screw-HH
25	3296-29	1	Nut-Lock, NI

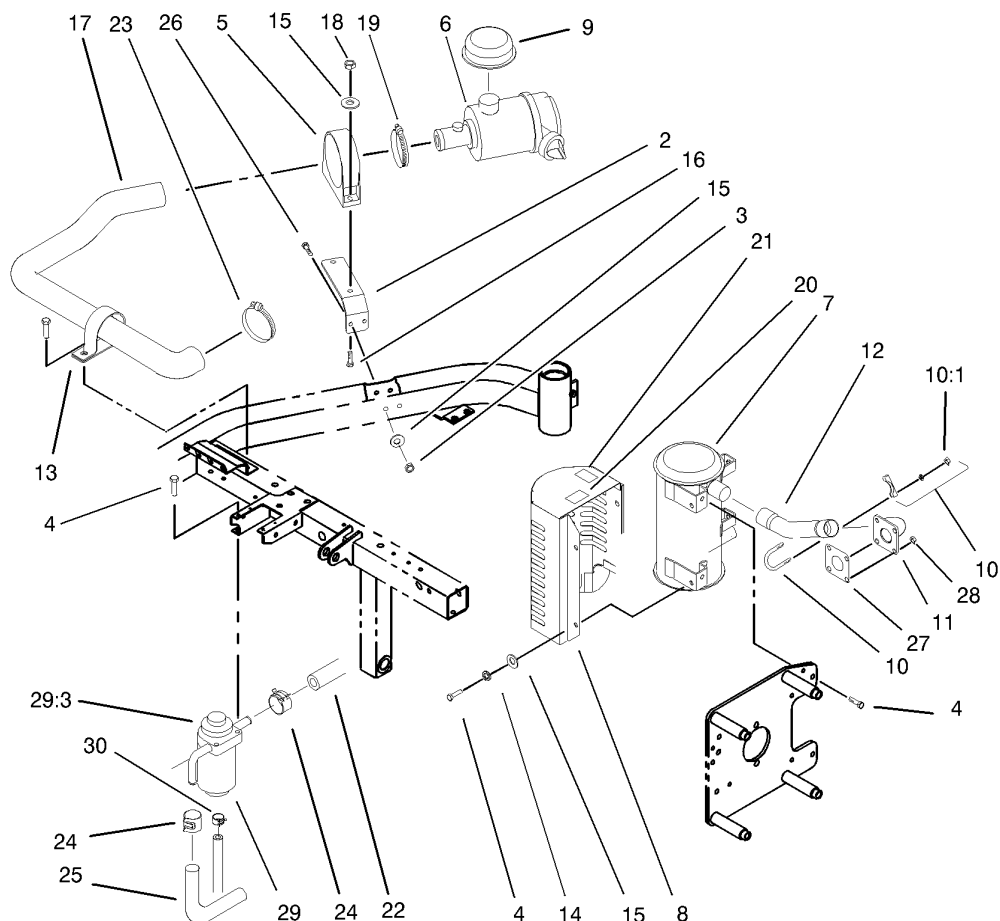
Ref	Part No.	Qty.	Description
26	2411-41	1	Joint-Ball
27	3296-42	1	Nut-Lock, NI
28	99-4251	1	Hose-Dampener
29	33093-00	2	Washer-Flat
30	93-9051	1	Decal-Bolt, Eccentric
31	3256-22	1	Washer-Flat
32	94-3486	1	Plate
33	63-9750	3	Mount
34	33115-035	3	Screw-HH
35	33025-00	3	Nut-Lock
36	2844	3	Washer
38	94-8196	2	Washer-Nylon



Engine Installation Assembly

Ref	Part No.	Qty.	Description
1	99-1481	1	Engine
2	99-1495	1	Adapter-Fan
3	93-2049	1	Tank-Overflow
4	93-2090	1	Fan-Engine
5	93-2445	1	Bracket-Alternator, Upper
6	3254-2	1	Washer-Lock, Int
7	51-2070	1	Nut
8	94-1348	1	Hose-Fuel
9	93-2048	1	Cap-Tank, Overflow
10	2412-108	1	Clamp-Worm
11	100-3190-03	1	Engine Mount ASM
12	92-5753	2	Clamp-Hose
13	99-1473-03	1	Mount-Engine, Front
14	93-2020-01	1	Bracket-Support
15	33114-020	26	Screw-HH
16	33024-00	4	Nut-Lock
17	93-2446	1	Bracket-Alternator, Lower
18	83-1030	3	Mount-Engine
19	323-11	3	Screw-HH
20	3290-357	3	Nut-HHF
21	83-1040	3	Washer-Flat
22	99-9209	1	Alternator
23	99-8153	1	Belt-V
24	99-4189-03	1	Bracket-Engine, LH

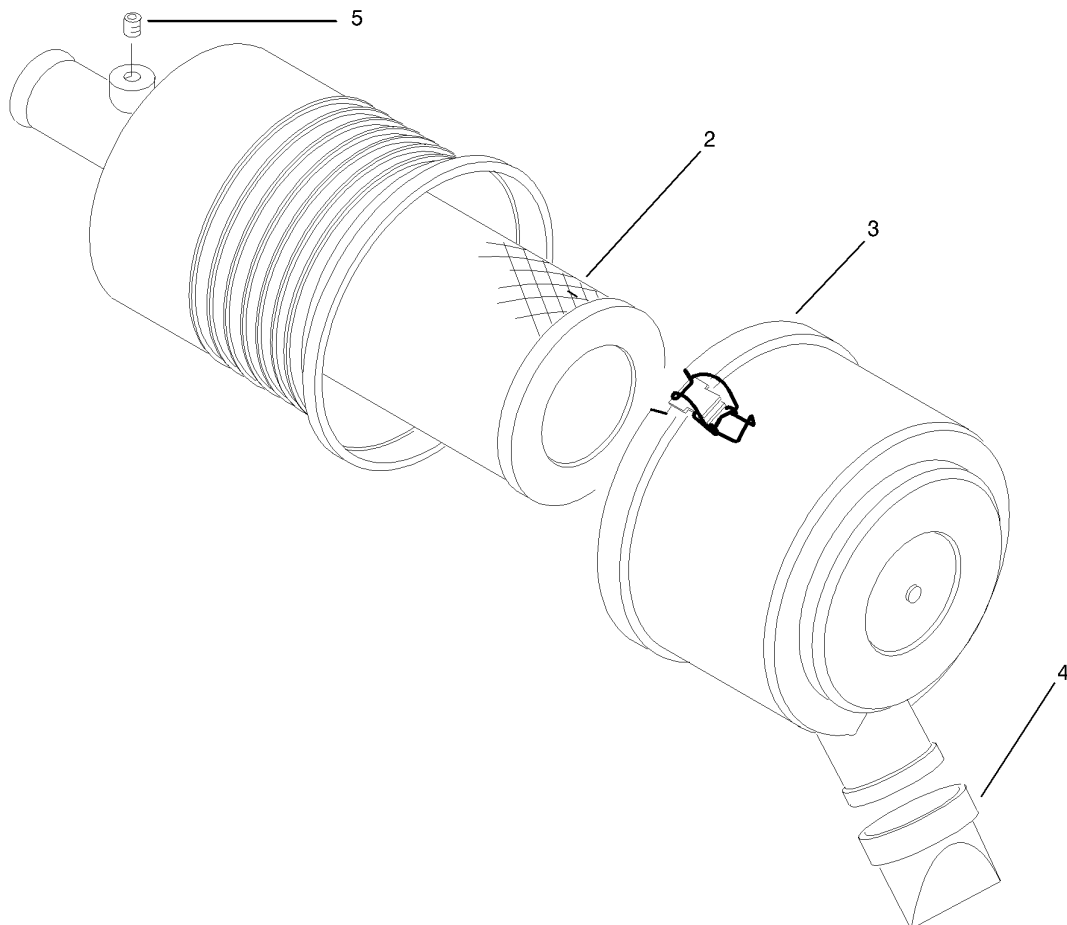
Ref	Part No.	Qty.	Description
25	99-4188-03	1	Bracket-Engine, RH
26	33113-016	4	Screw-HH
27	99-4190-03	1	Plate-Pump
28	93-2588	2	Spacer-Upper
29	93-2174	2	Spacer
30	33116-130	2	Screw-HH
31	87-7270	9	Washer-Thrust
32	33026-00	3	Nut-Lock
33	33115-050	1	Screw-HH
34	99-4240	1	Brace-Wireform, LH
35	99-4238	1	Brace-Wireform, RH
36	33025-00	1	Nut-Lock
37	323-4	2	Screw-HH
38	94-4538	3	Spacer-Mount
39	33116-120	2	Screw-HH
40	32144-14	2	Screw-HWH
41	94-8156-03	1	Deflector-Fan
42	3256-3	1	Washer-Flat
43	3290-378	2	Tie-Cable
44	3256-24	2	Washer-Flat
45	66-6480	3	Washer
46	92-2379	2	Clamp-Hose
47	33114-016	3	Screw-HH
48	73-0040	1	Washer-Thrust



Air Cleaner and Exhaust Assembly

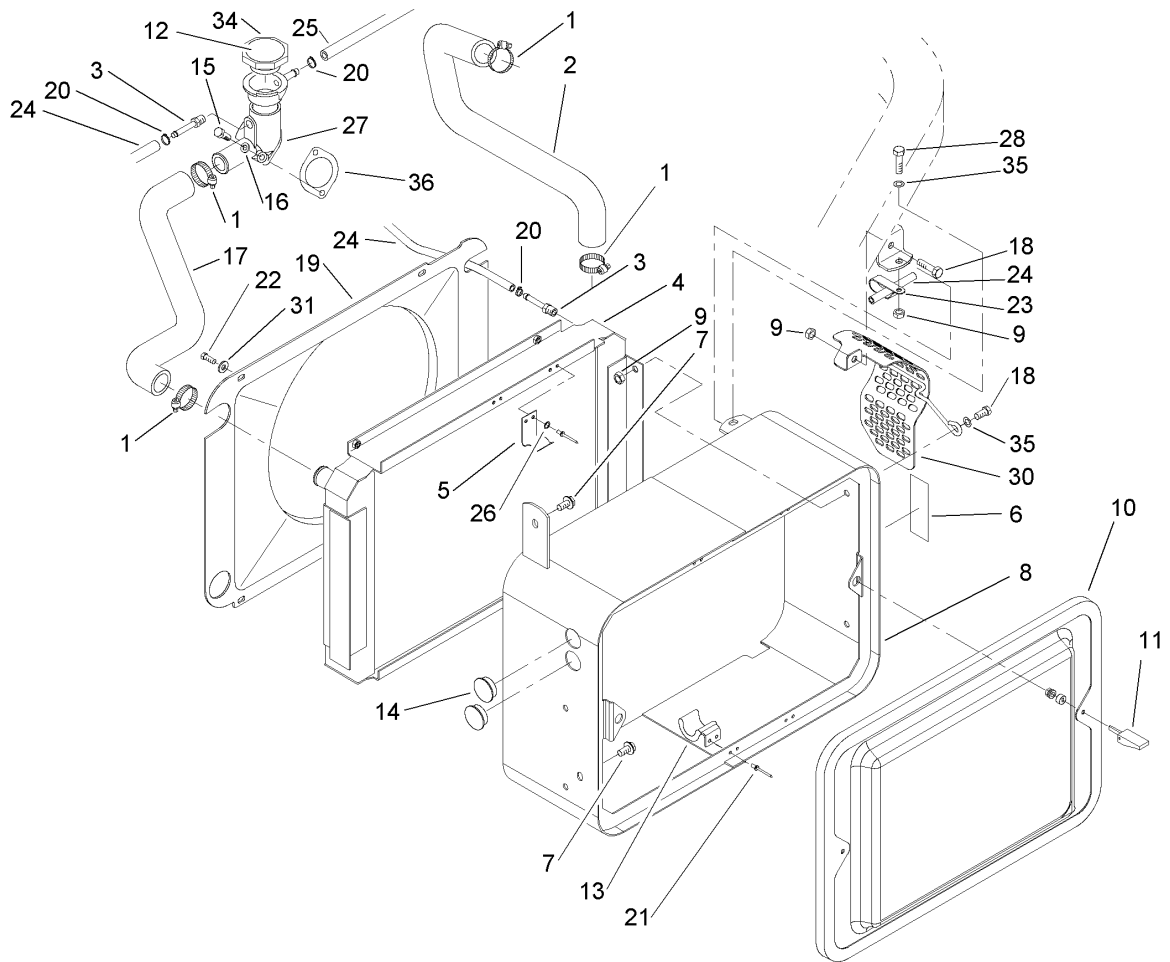
Ref	Part No.	Qty.	Description
2	99-4203-03	1	Bracket-Air Cleaner
3	33024-00	2	Nut-Lock
4	33114-020	8	Screw-HH
5	95-5806	1	Bracket-Mounting
6	95-5805	1	Air Cleaner ASM
7	94-8153	1	Muffler
8	94-8182-03	1	Shield-Muffler
9	46-7510	1	Hood-Inlet, Air
10	2112-9	2	Clamp
10:1	32128-20	2	Nut-HF
11	99-1472	1	Plate-Exhaust
12	99-1494	1	Pipe-Exhaust
13	2412-107	1	Clamp-R
14	3253-4	4	Washer-Lock
15	3256-23	4	Washer-Flat
16	322-16	2	Screw-HH
17	99-4204	1	Hose-Cleaner, Air
18	3296-29	2	Nut-Lock, NI
19	2412-92	1	Clamp-Hose
20	93-8069	1	Decal-Surface, Hot
21	93-7275	1	Decal-Fluid, Starting
22	92-9283	1	Hose-Fuel
23	2412-130	1	Clamp-Hose
24	92-2379	2	Clamp-Hose

Ref	Part No.	Qty.	Description
25	95-5936	1	Hose-Fuel
26	33114-080	2	Screw-HH
27	99-9179	1	Gasket-Exhaust
28	99-9176	4	Nut-Hex
29	100-3191	1	Separator-Fuel
●29:1	100-3192	1	Element-Filter, Fuel
●29:2	100-6409	1	Sensor-Filter, Fuel
29:3	100-6408	1	Cover-Filter
30	94-8189	1	Clamp-Hose



Air Cleaner Assembly No. 95-5805

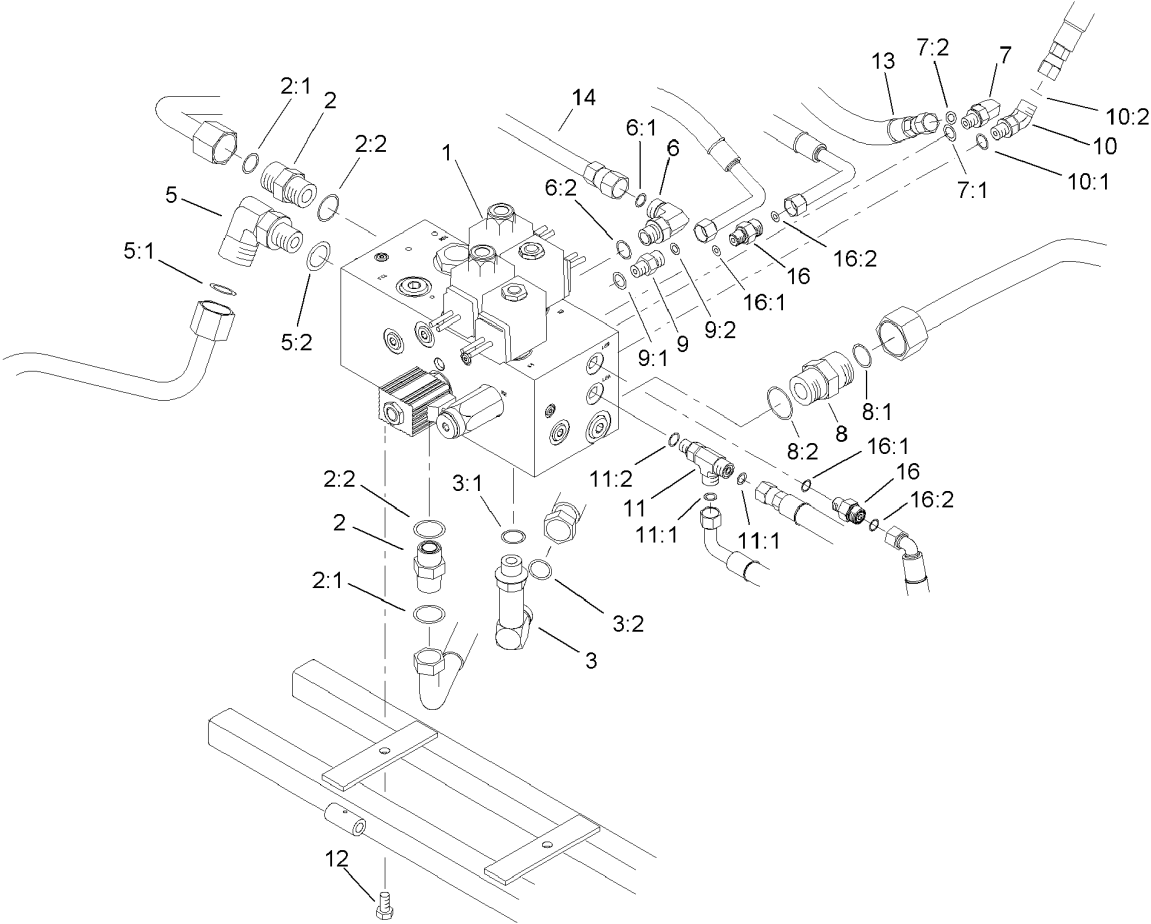
Ref	Part No.	Qty.	Description
2	93-2195	1	Filter
3	94-3652	1	Cover ASM
4	94-1414	1	Valve-Vacuator
5	285-17	1	Plug-Pipe



Radiator Assembly

Ref	Part No.	Qty.	Description
1	2412-34	4	Clamp-Hose
2	99-1469	1	Hose-Radiator
3	304-73	2	Connector-Hose
4	99-8193	1	Radiator
5	104-7736	1	Bracket-Cooler, Upper
6	93-6681	1	Decal-Warning, Fan
7	32144-14	2	Screw-HWH
8	106-9056-01	1	Radiator Support ASM
9	33024-00	6	Nut-Lock
10	100-3172-03	1	Screen ASM
11	74-5950	2	Latch-Swell
12	106-5976	1	Decal-Warning
13	93-2424	2	Bracket-Cooler, Lower
14	94-4528	2	Plug
15	33113-025	2	Screw-HH
16	3253-3	2	Washer-Lock
17	93-2018	1	Hose-Radiator
18	33114-020	5	Screw-HH
19	93-2320	1	Shroud-Fan
20	2412-108	3	Clamp-Worm
21	3269-15	6	Rivet
22	33113-016	4	Screw-HH
23	92-5753	1	Clamp-Hose
24	27-4480	1	Hose-Fuel

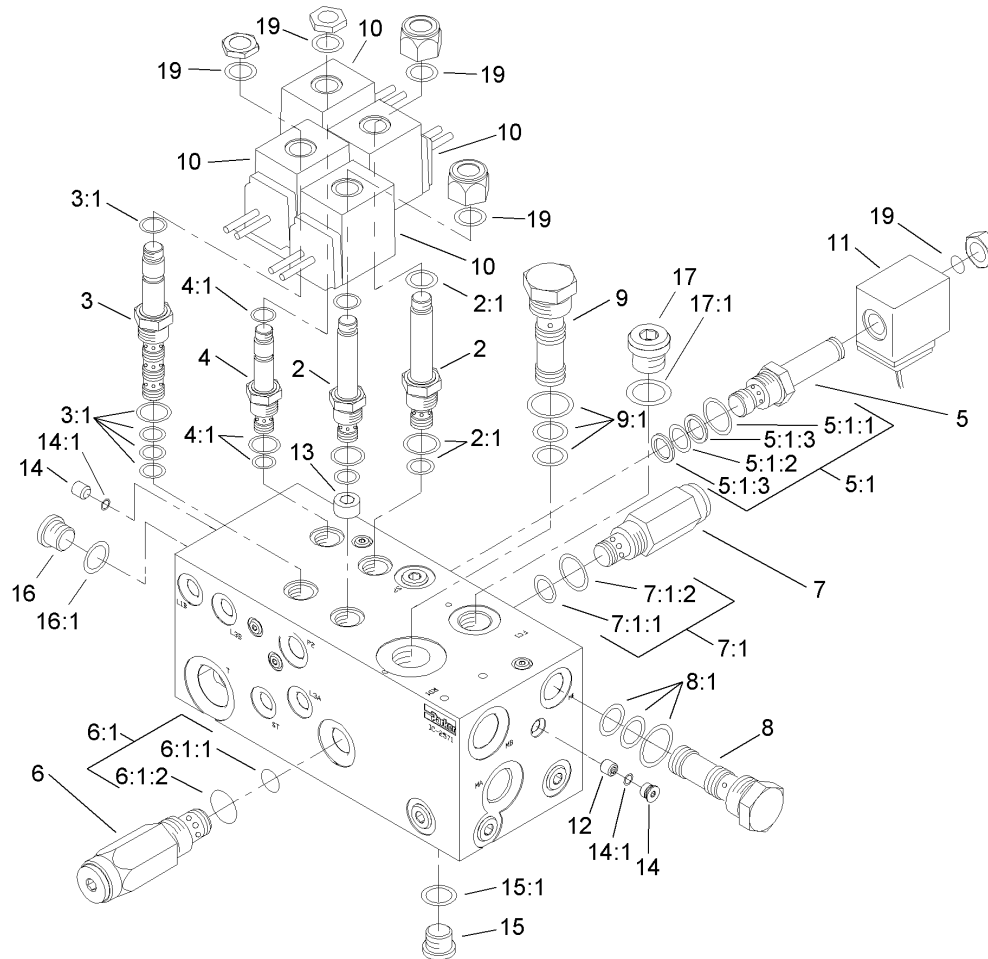
Ref	Part No.	Qty.	Description
25	92-9283	1	Hose-Fuel
26	3269-6	2	Washer
27	93-2448	1	Thermostat Housing ASM
28	33114-025	1	Screw-HH
30	100-3164-03	1	Guard-Alternator
31	3256-22	4	Washer-Flat
34	66-3240	1	Cap-Radiator
35	3256-23	2	Washer-Flat
36	99-9163	1	Gasket-Outlet



Manifold Block Installation Assembly

Ref	Part No.	Qty.	Description
1	106-9005	1	Manifold ASM
2	340-7	2	Adapter
2:1	237-65	1	O-Ring
2:2	237-80	1	O-Ring
3	99-4214	1	Fitting-HYD
3:1	237-79	1	O-Ring
3:2	237-30	1	O-Ring
5	340-17	1	Fitting-Hyd, 90 DEG
5:1	237-65	1	O-Ring
5:2	237-80	1	O-Ring
6	340-77	1	Fitting-Hyd, 90 DEG
6:1	237-22	1	O-Ring
6:2	237-42	1	O-Ring
7	340-132	1	Fitting-Hyd, 90 DEG
7:1	237-78	1	O-Ring
7:2	237-21	1	O-Ring
8	340-9	1	Fitting-Hyd, Straight
8:1	237-58	1	O-Ring
8:2	237-81	1	O-Ring
9	340-92	1	Fitting-Hyd, Straight
9:1	237-78	1	O-Ring
9:2	237-21	1	O-Ring
10	340-103	1	Fitting-Hyd, 45 DEG
10:1	237-78	1	O-Ring

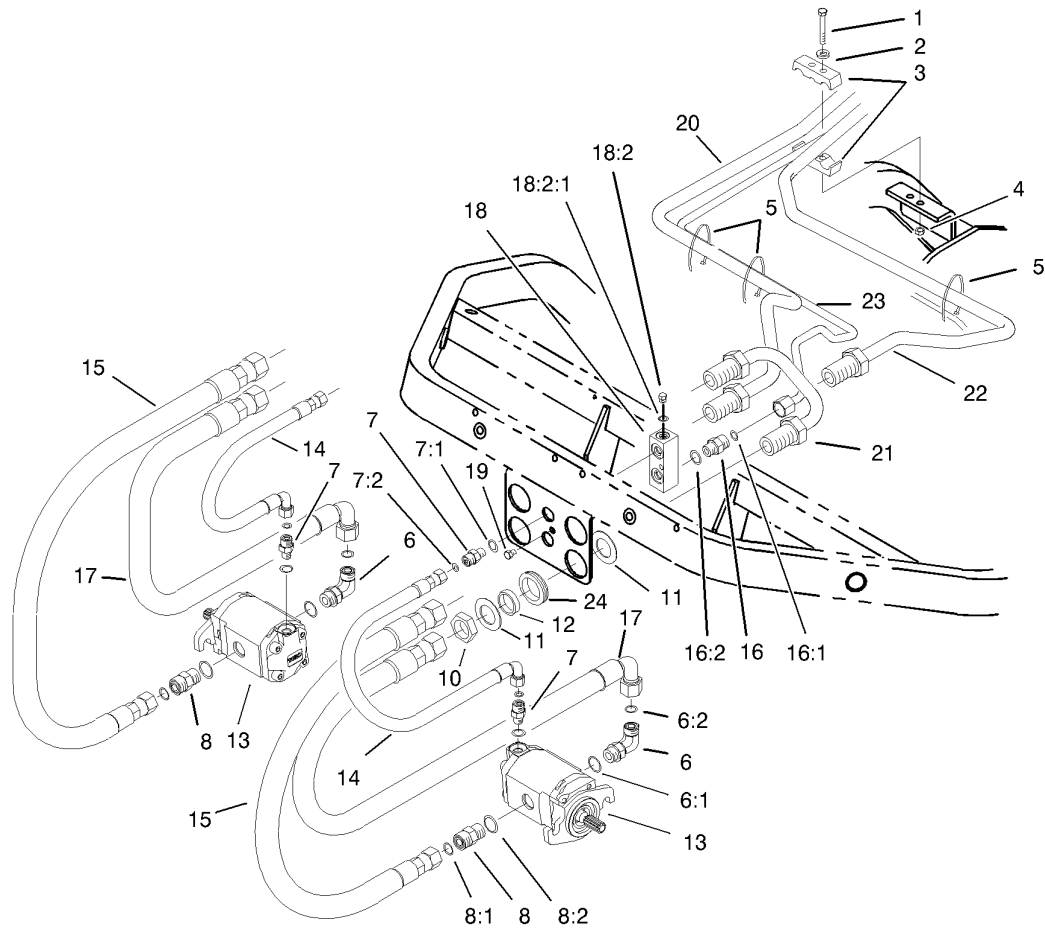
Ref	Part No.	Qty.	Description
10:2	237-21	1	O-Ring
11	340-140	1	Adapter-Tee
11:1	237-21	2	O-Ring
11:2	237-78	1	O-Ring
12	33114-016	2	Screw-HH
13	93-2271	1	HYD Hose ASM
14	105-9790	1	Hose ASM
16	95-1639	2	Fitting-HYD
16:1	237-78	1	O-Ring
16:2	237-21	1	O-Ring



Manifold Assembly No. 106-9005

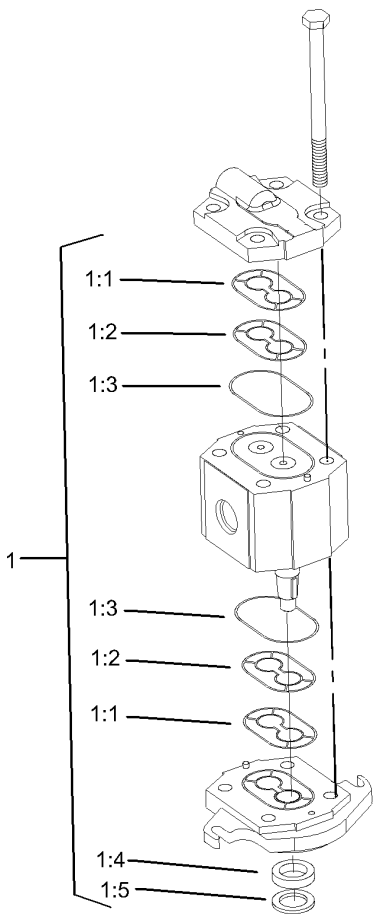
Ref	Part No.	Qty.	Description
2	93-7494	2	Cartridge
2:1	75-2080	1	Seal Kit
3	94-2627	1	Cartridge
3:1	95-5642	1	Seal Kit
4	92-6315	1	Cartridge-N.c., Poppet
4:1	104-0004	1	Cartridge Seal Kit
5	106-9087	1	Spool-Type, Stem
5:1	105-3334	1	Seal Kit
②5:1:1		1	O-Ring
②5:1:2		1	O-Ring
②5:1:3		2	Ring-Backup
6	95-1601	1	Cartridge-Relief
6:1	95-5645	1	Seal Kit
②6:1:1		1	O-Ring
②6:1:2		1	O-Ring
7	94-6351	1	Cartridge-Relief
7:1	95-5645	1	Seal Kit
②7:1:1		1	O-Ring
②7:1:2		1	O-Ring
8	94-6353	1	Plug-Cavity
8:1	69-4240	1	Seal Kit
9	94-6352	1	Plug-Cavity
9:1	104-7730	1	Seal Kit
10	88-9190	4	Solenoid Coil Kit

Ref	Part No.	Qty.	Description
11	106-9086	1	Solenoid Coil
12	106-9084	1	Plug-Orifice
13	106-9083	1	Plug-Orifice
14	353-991	8	Plug-Hex, Hollow
14:1	237-156	1	O-Ring
15	353-989	7	Plug-Hex, Hollow
15:1	237-42	1	O-Ring
16	353-988	1	Plug-Hex, Hollow
16:1	237-79	1	O-Ring
17	354-70	1	Plug-Hex, Hollow
17:1	237-80	1	O-Ring
19	94-5438	8	Seal-Solenoid



Front Bulkhead and Reel Motor Assembly

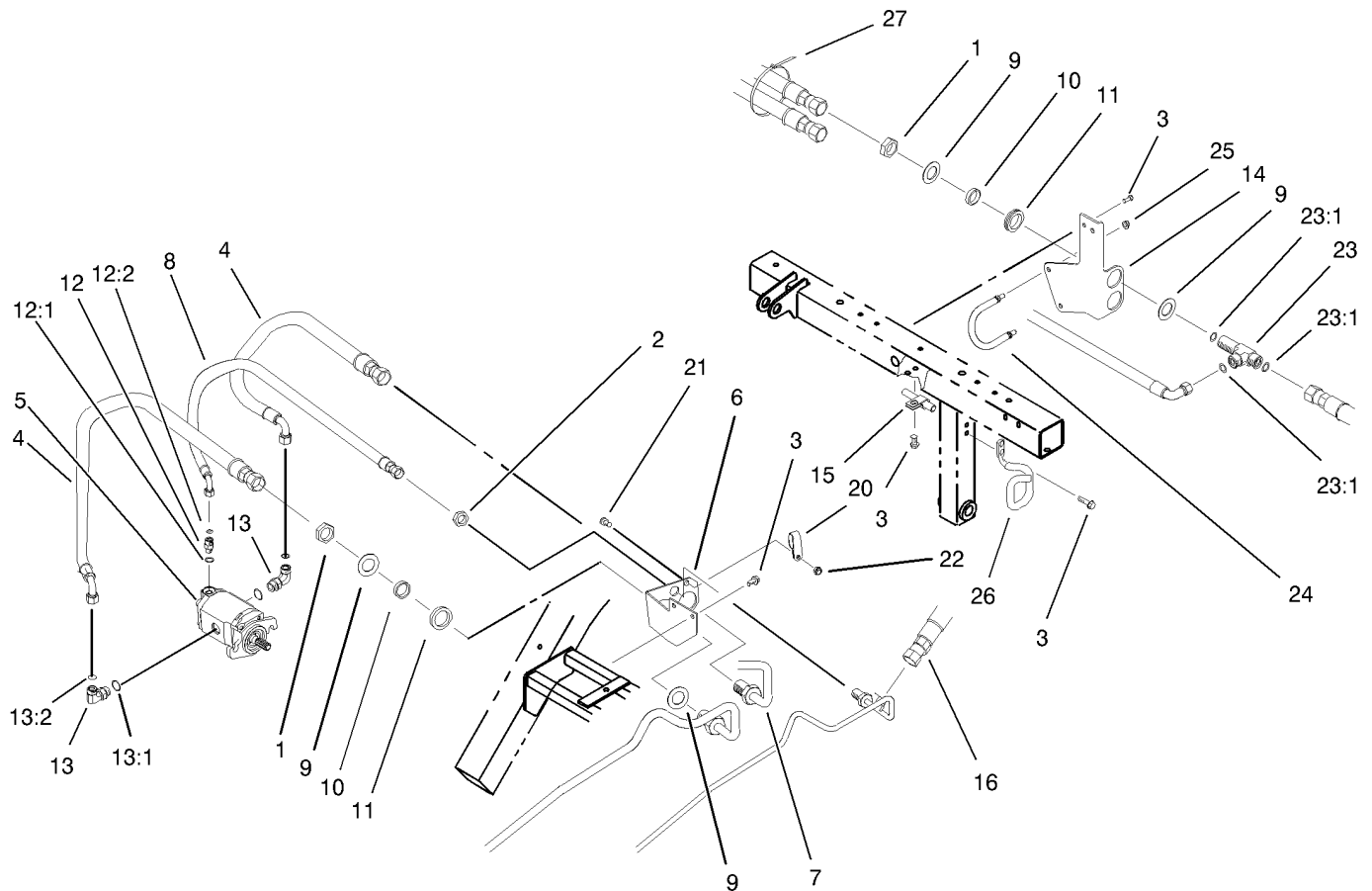
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	33113-050	2	Screw-HH	18	93-2238	1	T-Block
2	3256-1	2	Washer-Flat	18:2	353-991	1	Plug-Hex, Hollow
3	93-2509	2	Clamp-Tube	18:2:1	237-156	1	O-Ring
4	33023-00	2	Nut-Lock	19	33113-008	1	Screw-HH
5	3290-378	3	Tie-Cable	20	94-1318	1	Tube-HYD
6	340-98	2	Fitting-Hyd, 90 DEG	21	94-1319	1	Tube-HYD
6:1	237-79	1	O-Ring	22	94-1320	1	Tube-HYD
6:2	237-30	1	O-Ring	23	94-1321	1	Tube-HYD
7	340-92	4	Fitting-Hyd, Straight	24	240-3	2	Grommet-Rubber
7:1	237-78	1	O-Ring				
7:2	237-21	1	O-Ring				
8	340-4	2	Fitting-Hyd, Sraight				
8:1	237-30	1	O-Ring				
8:2	237-79	1	O-Ring				
10	340-74	2	Locknut-Bulkhead				
11	69-9010	4	Washer				
12	69-9000	2	Spacer				
13	100-6426	2	HYD Motor ASM				
14	93-2264	2	Hose ASM				
15	95-2908	2	Hose ASM				
16	340-2	1	Fitting-Hyd, Straight				
16:1	237-22	1	O-Ring				
16:2	237-42	1	O-Ring				
17	95-2909	2	Hose ASM				



Parts not listed in
part list are not
serviced separately

Reel Motor Assembly No. 100-6426

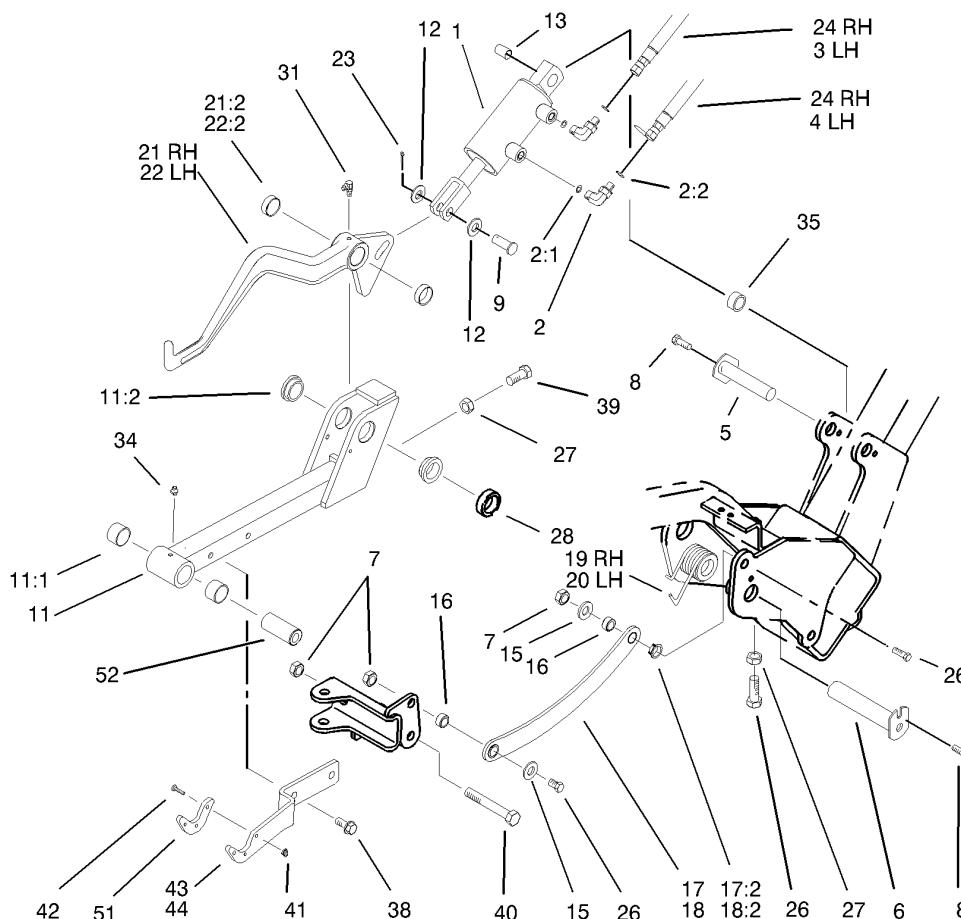
Ref	Part No.	Qty.	Description				
1	105-9758	1	Seal Kit				
2 1:1		2	Seal-Extrusion, Anti				
2 1:2		2	Seal-Pressure				
2 1:3		2	O-Ring				
2 1:4		1	Seal-Shaft				
2 1:5		1	Washer-Backup				



Rear Bulkhead and Reel Motor Assembly

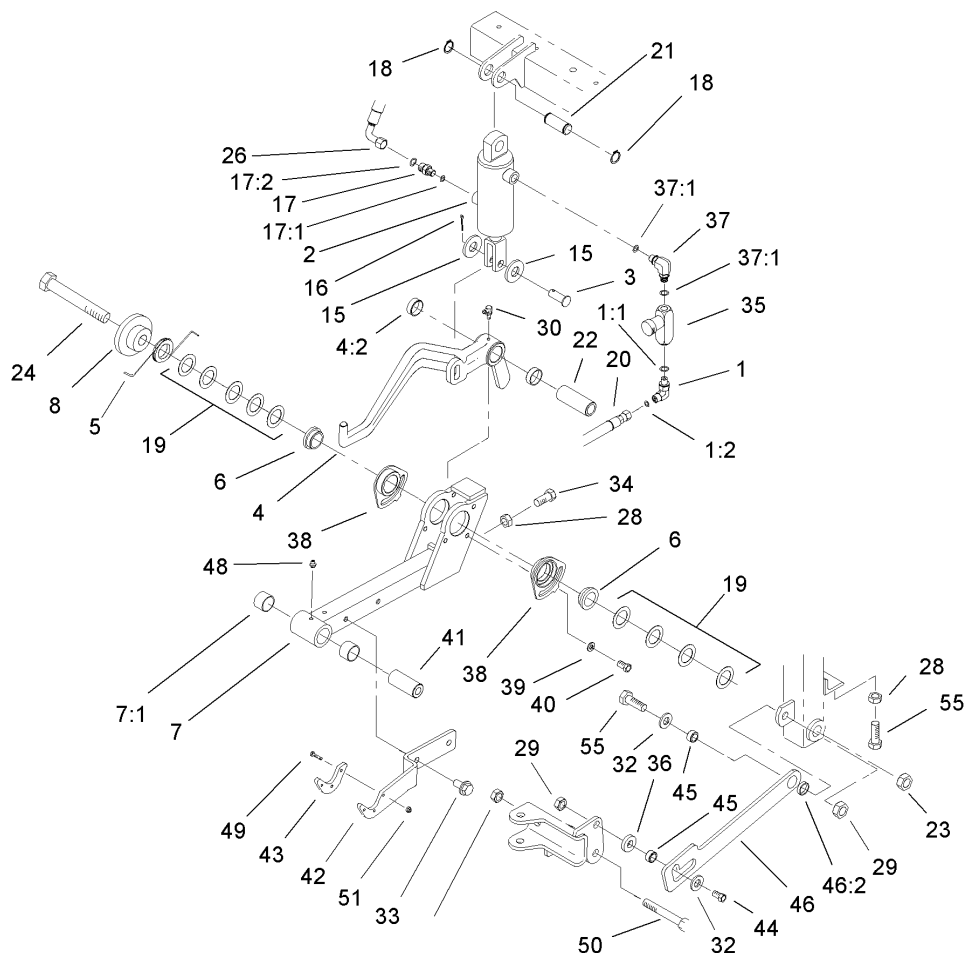
Ref	Part No.	Qty.	Description
1	340-74	4	Locknut-Bulkhead
2	340-70	1	Nut-Lock
3	32144-14	7	Screw-HWH
4	95-2907	2	Hose ASM
5	100-6426	1	HYD Motor ASM
6	94-1316	1	Bracket-Bulkhead
7	94-1317	1	Tube-HYD
8	94-1328	1	Hose ASM
9	69-9010	8	Washer
10	69-9000	4	Spacer
11	240-3	4	Grommet-Rubber
12	340-92	1	Fitting-Hyd, Straight
12:1	237-78	1	O-Ring
12:2	237-21	1	O-Ring
13	340-98	2	Fitting-Hyd, 90 DEG
13:1	237-79	1	O-Ring
13:2	237-30	1	O-Ring
14	99-4222-03	1	Bracket-Hose
15	2412-4	1	Clamp
16	94-4539	1	Hose ASM
20	2412-137	1	Clamp-Tube
21	33114-020	1	Screw-HH
22	33024-00	1	Nut-Lock
23	94-5350	2	Tee-Bulkhead

Ref	Part No.	Qty.	Description
23:1	237-65	3	O-Ring
24	99-4221	1	Retainer-Hose
25	3296-29	2	Nut-Lock, NI
26	94-5352	1	Retainer-Hose
27	3290-378	1	Tie-Cable



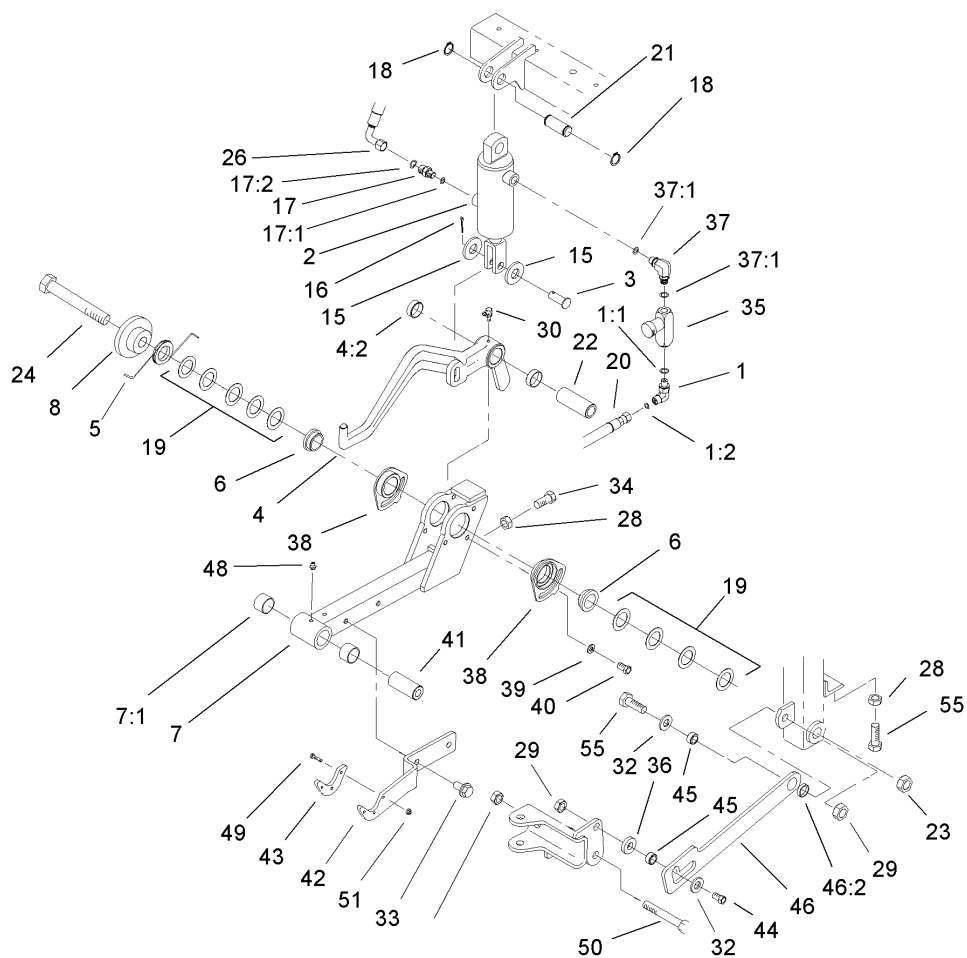
Left Hand and Right Hand Lift Arm Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	105-3821	2	HYD Cylinder ASM	21	99-4213	1	RH Lift Arm ASM
2	340-132	4	Fitting-Hyd, 90 DEG	21:2	92-8995	2	Bushing
2:1	237-78	1	O-Ring	22	99-4212	1	LH Lift Arm ASM
2:2	237-21	1	O-Ring	22:2	92-8995	2	Bushing
3	93-2255	1	HYD Hose ASM	23	3272-11	2	Pin-Cotter
4	93-2256	1	HYD Hose ASM	24	93-2254	2	HYD Hose ASM
5	10-6060	2	Pin-Pivot, Ram	26	325-6	5	Screw-HH
6	94-8198	2	Pin	27	3218-5	3	Nut-Jam
7	3296-25	6	Nut-Lock, NI	28	93-2384	2	Spacer-Carrier
8	32144-14	4	Screw-HWH	31	302-60	2	Fitting-Grease
9	283-68	2	Pin-Clevis	34	302-5	2	Fitting-Grease
11	99-4115	2	Front Lift Frame ASM	35	74-3730	2	Spacer-Spindle, Rear
11:1	98-4166	2	Bushing	38	32144-69	4	Screw-HH
11:2	94-9610	2	Bushing-Flange	39	325-4	2	Screw-HH
12	33096-00	4	Washer-Flat	40	325-14	2	Screw-HH
13	105-3838	2	Spacer	41	3296-54	6	Nut-Lock, NI
15	3256-26	4	Washer-Flat	42	3250-17	6	Screw-PPH
16	99-4201	4	Tube-Spacer	43	99-4111-01	1	Plate-Transport, 1 And 3
17	99-4258	1	RH Link Bracket ASM	44	99-4112-01	1	Plate-Transport, 2
17:2	99-4243	2	Bushing-Flange	51	99-4225	2	Pad-Wear
18	99-4260	1	LH Link Bracket ASM	52	99-4072	2	Spacer-Frame, Pull
18:2	99-4243	2	Bushing-Flange				
19	105-3809	1	Spring-Torsion, RH				
20	105-3818	1	Spring-Torsion, LH				



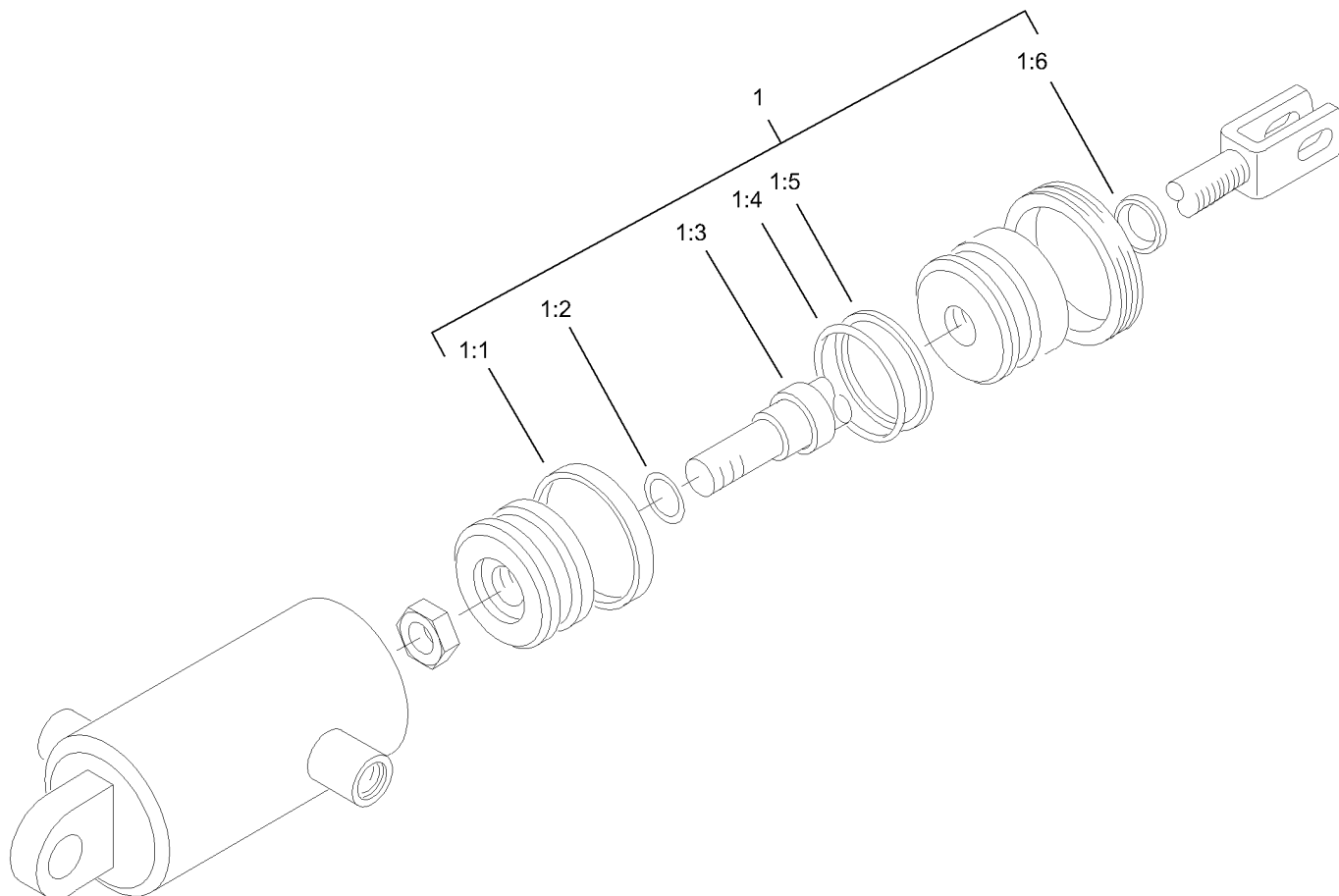
Center Lift Arm Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	340-132	1	Fitting-Hyd, 90 DEG	26	94-3477	1	HYD Hose ASM
1:1	237-78	1	O-Ring	28	3218-5	2	Nut-Jam
1:2	237-21	1	O-Ring	29	3296-25	3	Nut-Lock, NI
2	105-3820	1	HYD Cylinder ASM	30	302-60	1	Fitting-Grease
3	283-68	1	Pin-Clevis	32	3256-26	2	Washer-Flat
4	99-4126	1	Center Lift Arm ASM	33	32144-69	2	Screw-HH
4:2	92-8995	2	Bushing	34	325-5	1	Screw-HH
5	105-9781	1	Spring-Torsion	35	93-7489	1	Orifice Valve ASM
6	98-2197	2	Bushing-Flange	36	99-4248	1	Spacer
7	99-4116	1	Rear Lift Frame ASM	37	95-2927	1	Fitting-Elbow
7:1	98-4166	2	Bushing	37:1	237-78	2	O-Ring
8	105-9779	1	Guide-Spring	38	98-4618	2	Bushing-Eccentric
15	33096-00	2	Washer-Flat	39	3256-74	2	Washer-Flat
16	3272-11	1	Pin-Cotter	40	33114-016	2	Screw-HH
17	95-1639	1	Fitting-HYD	41	99-4072	1	Spacer-Frame, Pull
17:1	237-78	1	O-Ring	42	99-4111-01	1	Plate-Transport, 1 And 3
17:2	237-21	1	O-Ring	43	99-4225	1	Pad-Wear
18	32120-72	2	Ring-Snap	44	325-7	1	Screw-HH
19	63-2290	9	Washer-Thrust	45	99-4201	2	Tube-Spacer
20	93-2258	1	HYD Hose ASM	46	99-4246	1	Link Bracket ASM
21	94-3452	1	Pin	46:2	99-4243	1	Bushing-Flange
22	94-8199	1	Tube-Pivot	48	302-5	1	Fitting-Grease
23	3296-53	1	Nut-Lock, NI	49	3250-17	3	Screw-PPH
24	327-25	1	Screw-HH	50	325-14	1	Screw-HH



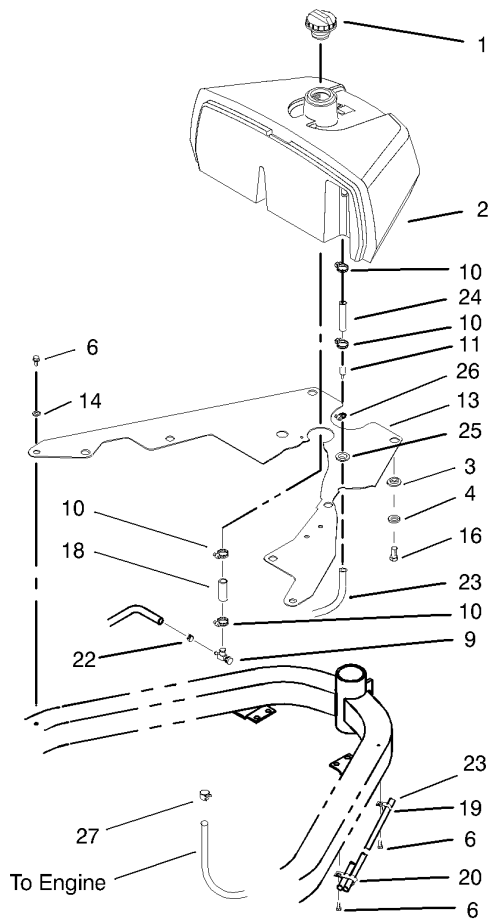
Center Lift Arm Assembly (continued)

Ref	Part No.	Qty.	Description
51	3296-54	3	Nut-Lock, NI
55	325-6	2	Screw-HH



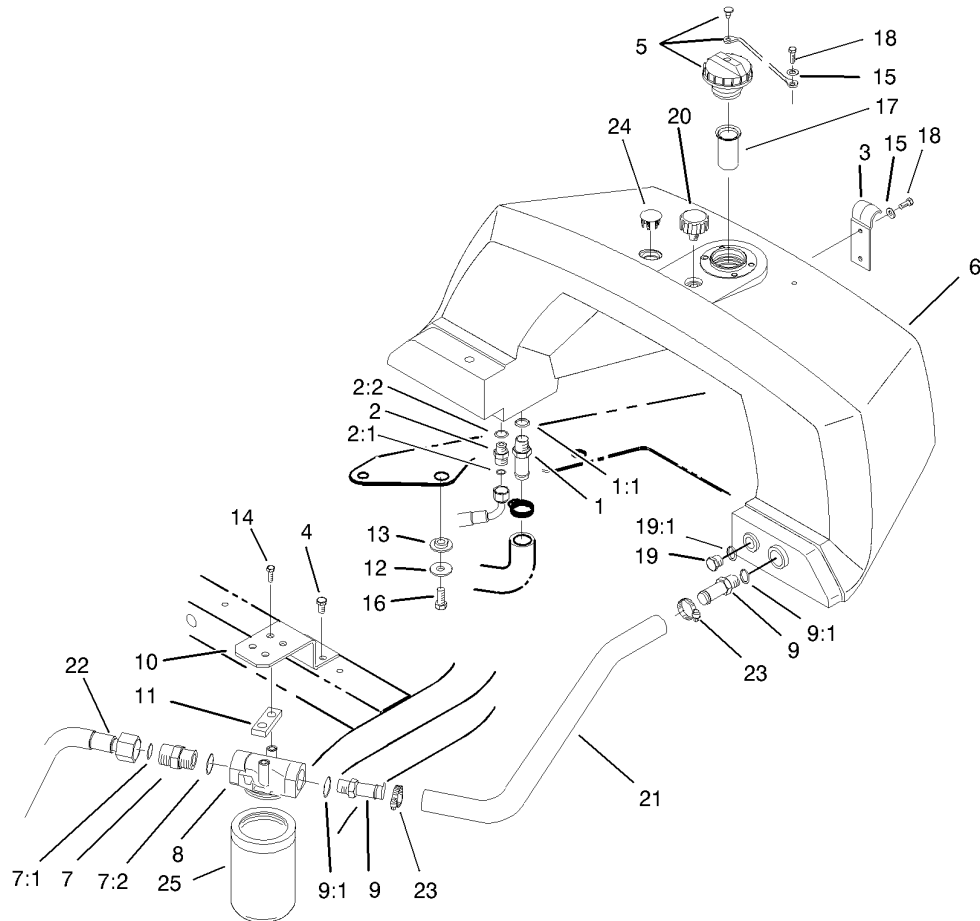
Hydraulic Cylinder Assembly No. 105-3820

Ref	Part No.	Qty.	Description				
1	105-3836	1	Seal Kit				
②1:1		1	T-Seal				
②1:2		1	O-Ring				
②1:3		1	Seal-Rod				
②1:4		1	O-Ring				
②1:5		1	Backup				
②1:6		1	Seal-Dust				



Fuel System Assembly

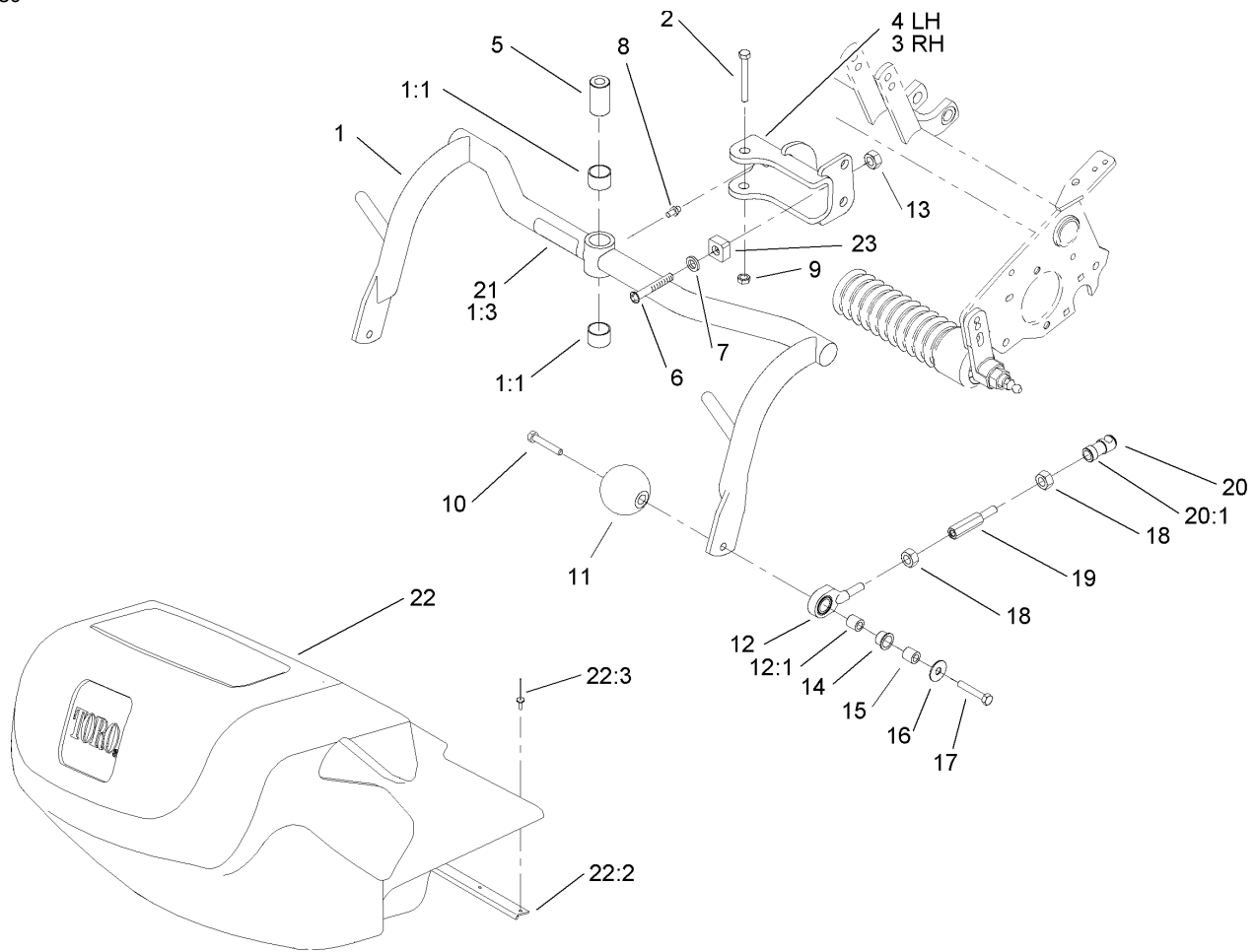
Ref	Part No.	Qty.	Description				
1	93-3102	1	Cap-Fuel				
2	93-2225	1	Tank-Fuel				
3	240-11	3	Bushing-Flange				
4	93-4637	3	Washer-Flat				
6	32144-14	5	Screw-HWH				
9	56-2520	1	Fitting-Shut Off, Fuel				
10	2412-36	4	Clamp-Hose				
11	93-2299	1	Fitting-Fuel				
13	94-1364-03	1	Plate				
14	3256-23	2	Washer-Flat				
16	33115-020	3	Screw-HH				
18	94-4353	1	Hose-Line, Fuel				
19	2412-41	1	Clamp				
20	92-5753	1	Clamp-Hose				
22	92-2379	1	Clamp-Hose				
23	93-2298	1	Hose-Fuel				
24	56-2230	1	Hose-Fuel				
25	237-124	1	Grommet				
26	2412-108	1	Clamp-Worm				
27	94-8189	1	Clamp-Hose				



Hydraulic Tank and Filter Assembly

Ref	Part No.	Qty.	Description
1	354-78	1	Connector-Hose
1:1	237-146	1	O-Ring
2	340-2	1	Fitting-Hyd, Straight
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	93-2438	1	Clamp-Tank, Fuel
4	32144-14	2	Screw-HWH
5	93-7160	1	Cap-Oil, HYD
6	93-2235	1	Tank-HYD
7	340-9	1	Fitting-Hyd, Straight
7:1	237-58	1	O-Ring
7:2	237-81	1	O-Ring
8	92-5821	1	Filter Head ASM
9	354-73	2	Fitting
9:1	237-81	1	O-Ring
10	105-9793-03	1	Mount-Filter, Oil
11	105-4309	1	Plate-Filter
12	93-4637	4	Washer-Flat
13	240-11	4	Bushing-Flange
14	321-6	2	Screw-HH
15	3256-1	3	Washer-Flat
16	33115-020	4	Screw-HH
17	93-2275	1	Screen-Filler
18	33113-016	3	Screw-HH

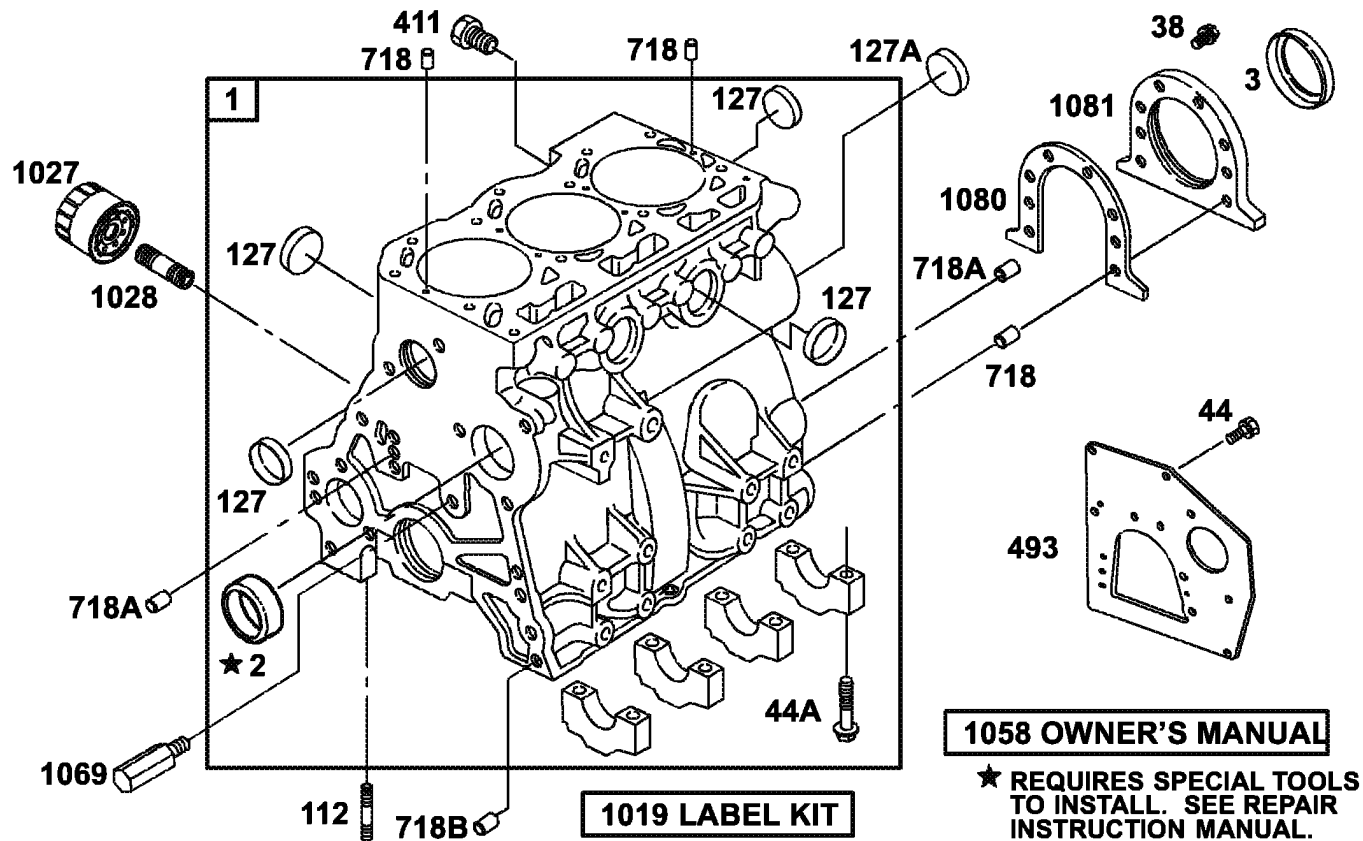
Ref	Part No.	Qty.	Description
19	353-988	1	Plug-Hex, Hollow
19:1	237-79	1	O-Ring
20	68-6150	1	Breather
21	94-9607	1	Hose-Return
22	94-4518	1	Tube ASM
23	2412-129	2	Clamp-Hose
24	93-2437	1	Plug-Serrated
25	105-0438	1	Element-Filter



Pull Frame Assembly

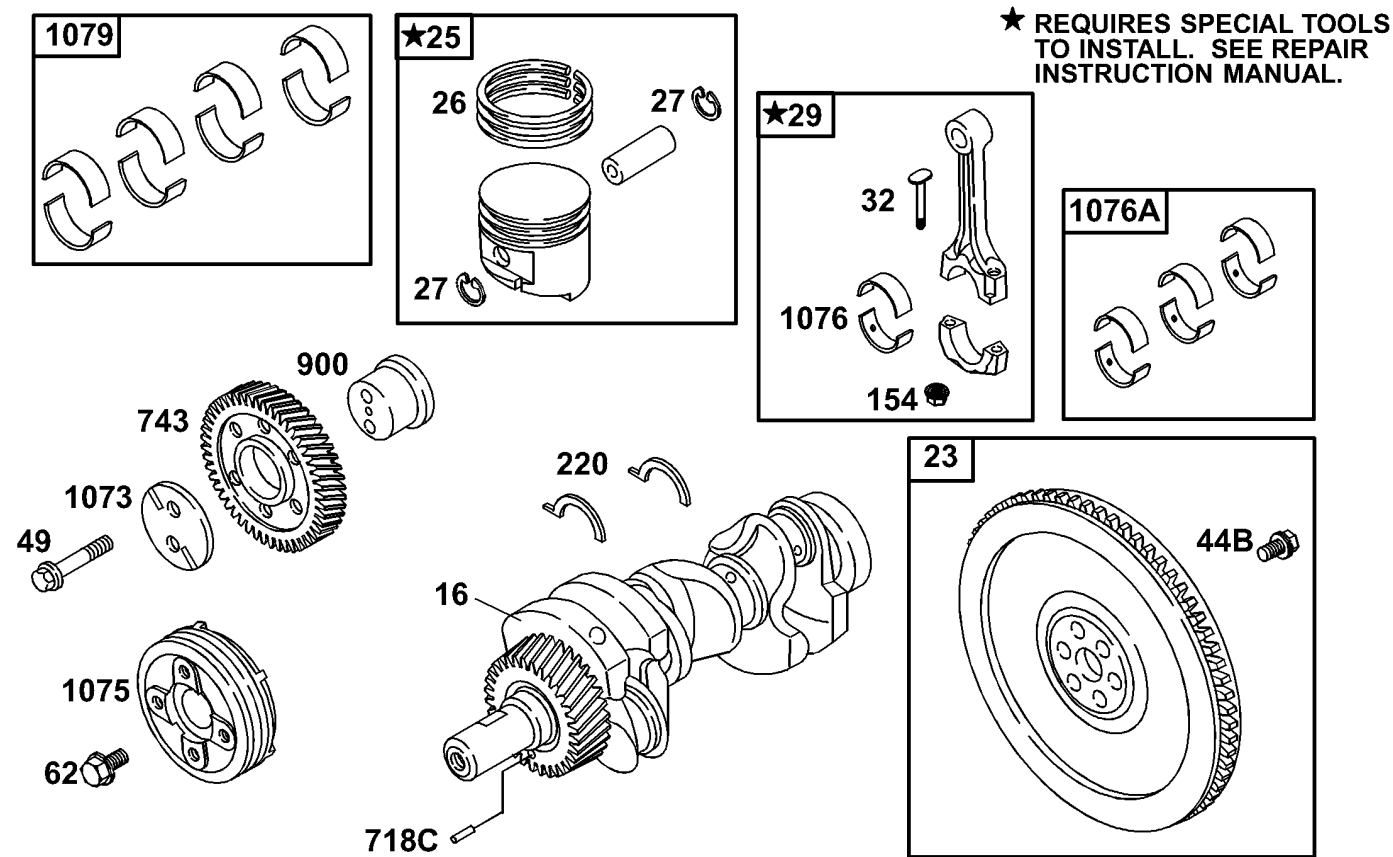
Ref	Part No.	Qty.	Description
1	99-4114	3	Pull Frame ASM
1:1	98-4166	2	Bushing
1:3	104-7728	1	Decal-Danger
2	325-13	3	Screw-HH
3	99-4183-01	2	RH Clevis ASM
4	99-4182-01	1	LH Clevis ASM
5	99-4109	3	Spacer-Pivot
6	78-8710	3	Screw
7	3256-77	3	Washer-Flat
8	302-5	3	Fitting-Grease
9	3296-25	3	Nut-Lock, NI
10	99-4209	6	Shaft-Roller
11	99-4210	6	Roller-Anti Scalp
12	100-6440	6	Pull Link And Bushing ASM
12:1	95-0532	1	Rubber Bushing ASM
13	3296-12	3	Nut-Lock
14	104-7738	6	Bushing-Flange
15	75-5270	6	Spacer-Knob, Seat
16	80-6990	6	Washer-Hardened
17	323-8	6	Screw-HH
18	3220-3	12	Nut-Jam
19	88-6870	6	Extension-Arm, Pull
20	99-1460	6	Ball Joint Receiver ASM
20:1	99-1461	1	Sleeve-Joint, Ball

Ref	Part No.	Qty.	Description
21	104-7729	3	Decal-Danger (Europe)
22	106-4689	3	Grass Basket ASM
22:2	104-2607	1	Strip-Basket
22:3	3290-382	8	Rivet-Pop
23	94-1392	3	Pad-Rubber



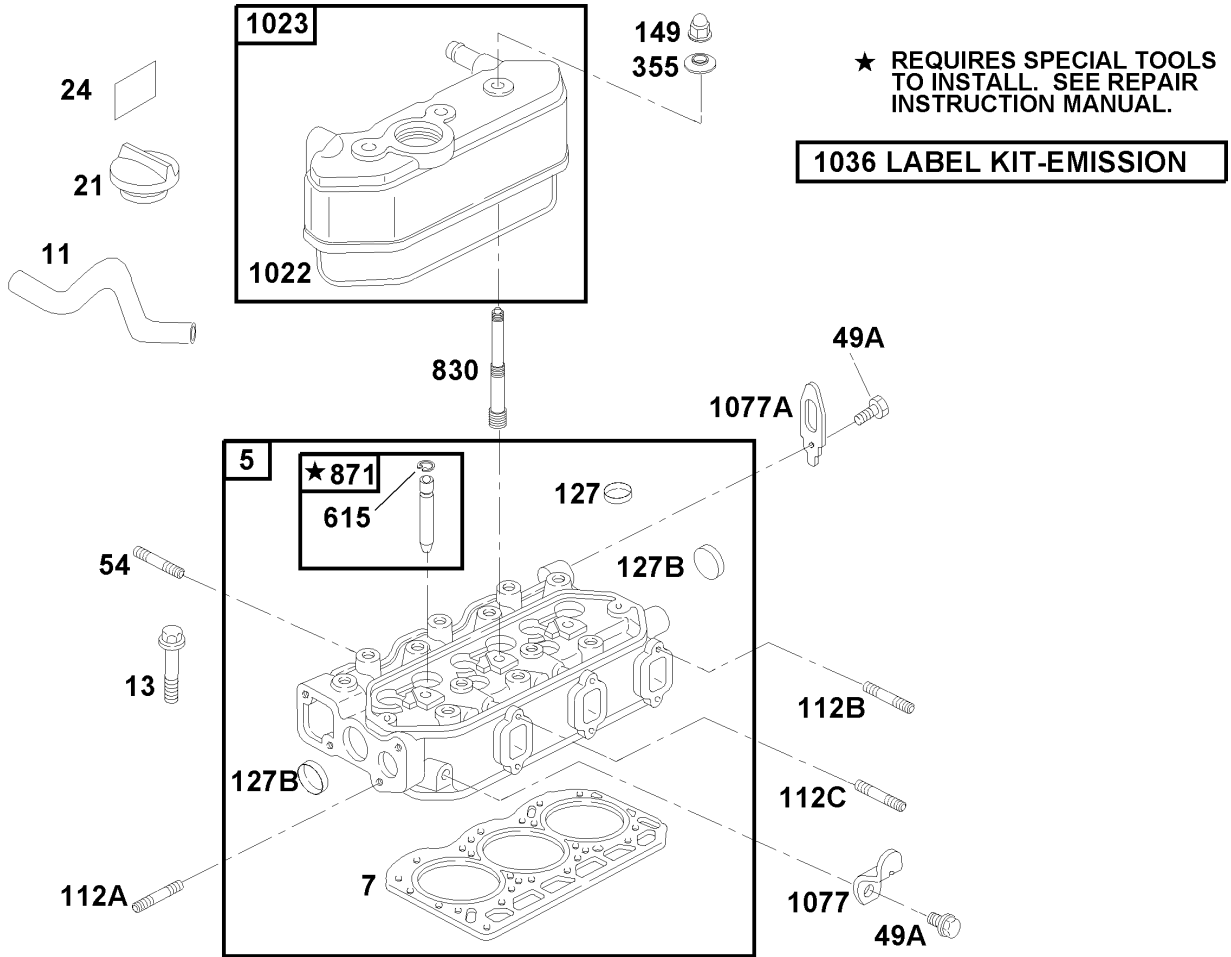
Cylinder Assembly

Ref	Part No.	Qty.	Description				
❶1	100-6401	1	Cylinder ASM				
❷2	99-9002	1	Bushing				
❸3	99-9003	1	Seal-Oil				
1019	99-9015	1	Label Kit				
1058	99-9602	1	Manual-Owner's				
❹1069	99-9020	1	Nozzle-Oil				
❺1080	99-9021	1	Gasket-Retainer				
❻1081	99-9022	1	Retainer-Seal				
112	99-9007	1	Stud-Metric				
1027	99-9017	1	Filter-Oil				
127	99-9008	7	Plug-Welch				
❽127A	99-9010	1	Plug-Welch				
1028	99-9018	1	Adapter-Filter, Oil				
38	99-9004	6	Screw-Hex				
❹411	99-9601	1	Plug (Cylinder Block)				
44	99-9005	3	Screw-Hex				
44A	99-9006	8	Screw-Hex				
❽493	100-3195	1	Bracket-Mounting				
718	99-9012	4	Pin-Locating				
718A	99-9013	3	Pin-Locating				
718B	99-9014	2	Pin-Locating				



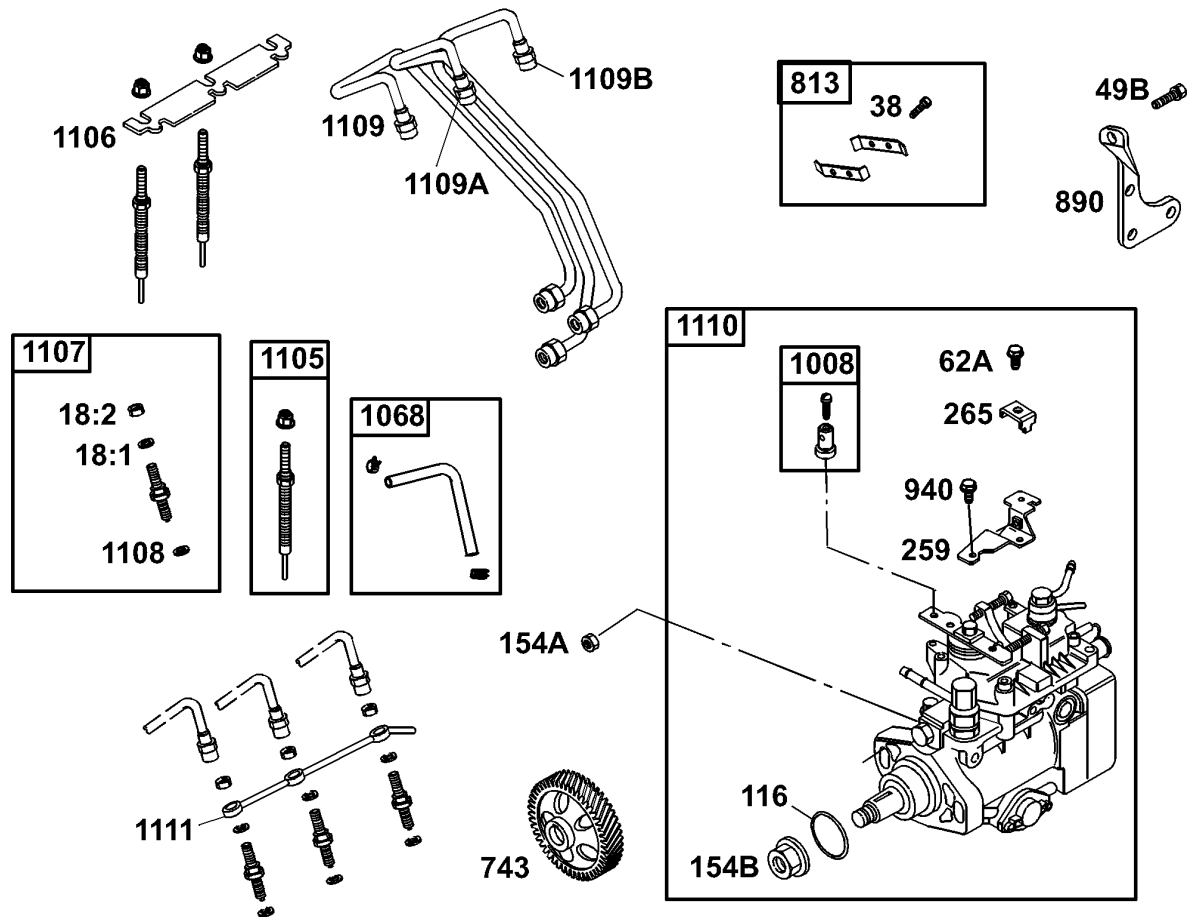
Crankshaft Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
16	99-9252	1	Crankshaft	1076A	99-9044	3	Rod Bearing Set (.010 Undersize)
23	99-9267	1	Flywheel				
25	99-9605	3	Piston ASM				
25	99-9268	3	Piston ASM-.010" Oversized				
26	99-9606	3	Ring Set				
26	99-9269	3	Ring Set-.010" Oversized				
27	99-9607	6	Lock-Pin, Piston				
29	99-9608	3	Rod-Connecting				
32	99-9030	6	Screw-Rod, Connecting				
49	99-9032	2	Screw-Hex				
62	99-9033	1	Screw-Hex				
154	99-9034	6	Nut-Hex				
220	99-9035	1	Washer-Thrust				
220	99-9036	1	Washer-Thrust, .005 Oversize				
44B	99-9031	6	Screw-Hex				
743	99-9609	1	Gear-Drive				
900	99-9039	1	Shaft-Gear				
1073	99-9040	1	Plate-Gear, Idler				
1075	99-9692	1	Pully-Crankshaft				
1076	99-9042	1	Bearing-Rod				
1079	99-9045	1	Bearing Set (Main)set Of 8				
1079	99-9046	1	Bearing Set (.010 Undersize)				
718C	99-9037	1	Pin-Locating				
1076A	99-9043	3	Rod Bearing Set				



Cylinder Head Assembly

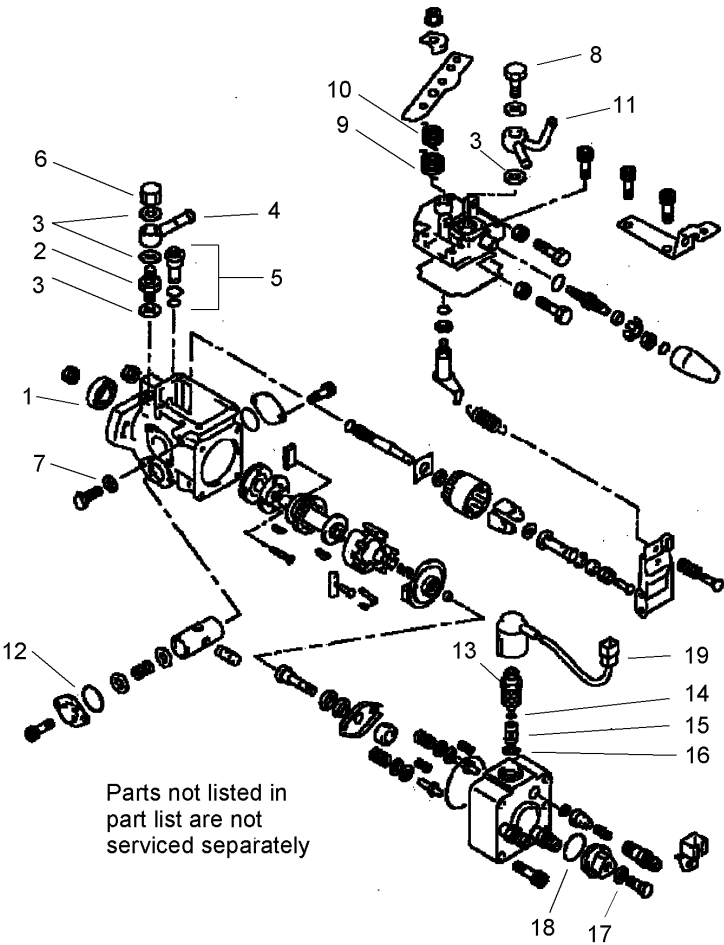
Ref	Part No.	Qty.	Description				
5	99-9611	1	Head-Cylinder				
7	99-9612	1	Gasket-Head, Cylinder				
11	104-7743	1	Tube-Breather				
13	99-9614	14	Screw-Metric				
21	99-9052	1	Cap-Fill, Oil				
24	105-3817	1	Label-Fill, Oil				
54	99-9055	2	Stud-Metric				
127	99-9008	2	Plug-Welch				
149	99-9061	3	Nut-Hex, Metric				
355	99-9063	3	Washer-Seal				
49A	99-9054	2	Screw-Hex				
615	99-9067	6	Retainer				
830	99-9101	3	Stud-Arm, Rocker				
871	99-9070	6	Bushing-Guide				
1022	99-9073	1	Gasket-Cover, Rocker				
1023	100-6402	1	Cover-Rocker				
1036	99-9615	1	Emission Label Kit				
1077	99-9076	1	Bracket-Lifting				
112A	99-9057	2	Stud-Metric				
112C	99-9059	1	Stud-Metric				
112B	99-9058	5	Stud-Metric				
127B	99-9060	2	Plug-Welch				
1077A	99-9077	1	Bracket-Lifting				



Injection Assembly

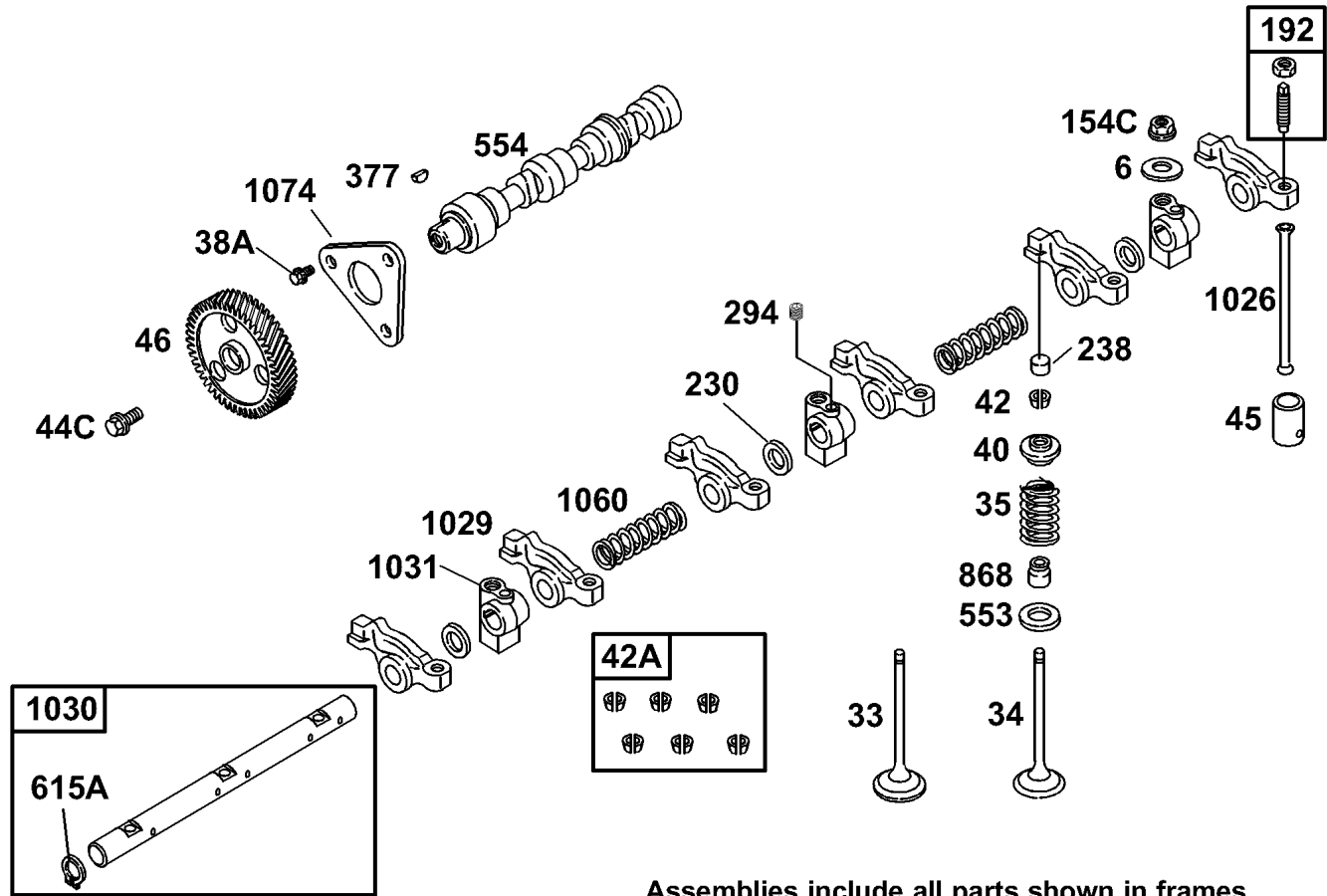
Ref	Part No.	Qty.	Description
38	99-9004	2	Screw-Hex
116	99-9618	1	O-Ring
259	99-9621	1	Bracket-Clamp, Casing
265	99-9622	1	Clamp-Casing
49B	99-9616	4	Screw-Hex
62A	100-6403	1	Screw-Metric
743	99-9624	1	Gear-Drive
813	99-9625	1	Clamp
890	99-9626	1	Bracket-Support
940	100-6410	2	Screw-Hex
1008	99-9628	1	Clamp-Swivel
1068	99-9629	1	Hose/clamp ASM
1105	99-9630	3	Plug-Glow
1106	99-9631	1	Strap-Plug, Glow
1107	105-9789	3	Injection Nozzle
1108	99-9633	3	Seat-Injector
1109	99-9690	1	Pipe-Injector, #1
1110	106-6364	1	Pump-Injection
1111	99-9637	1	Pipe-Return, Fuel
154A	99-9619	2	Nut-Hex, Metric
154B	99-9620	1	Nut-Hex, Metric
1109A	99-9634	1	Pipe-Injector, #2
1109B	99-9635	1	Pipe-Injector, #3
18:1	100-5148	1	Washer

Ref	Part No.	Qty.	Description
18:2	100-5149	1	Nut-Hex



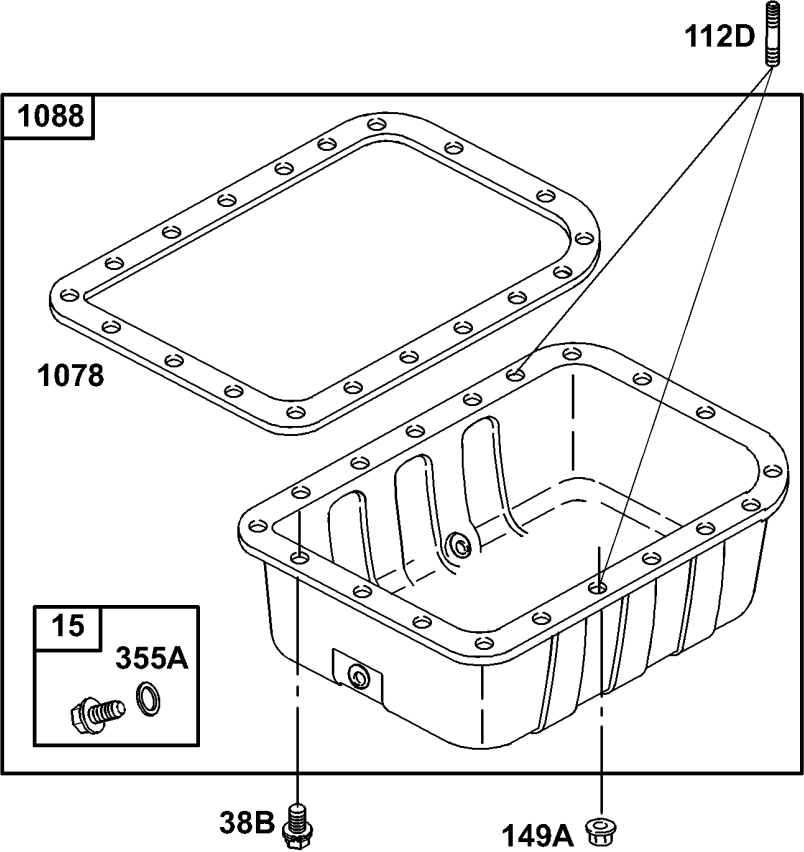
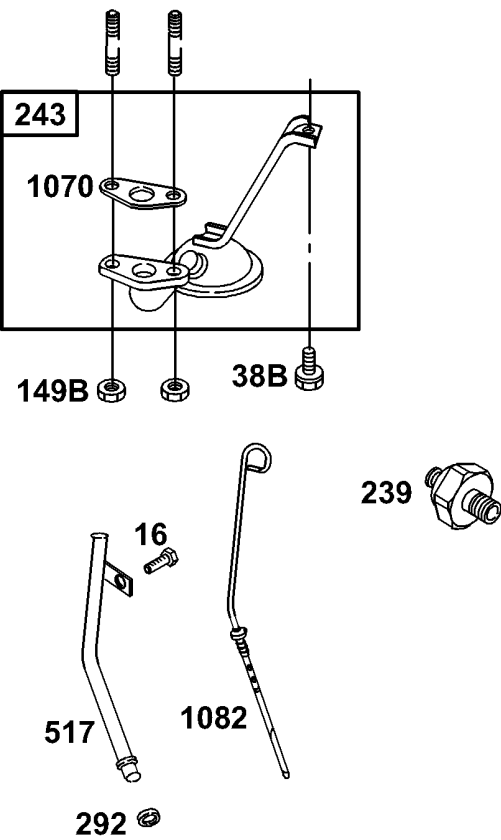
Injection Assembly No. 106-6364

Ref	Part No.	Qty.	Description				
1	100-5190	1	Seal-Oil				
2	100-5234	1	Screw-Hollow				
3	100-5221	5	Washer, Air Bleede				
4	100-5222	1	Nipple ASM				
5	100-5230	1	Valve ASM				
6	100-5302	1	Nut-Cap				
7	100-5314	2	Gasket-Delivery				
8	100-5220	1	Screw ASM				
9	100-5226	1	Spring-Return				
10	100-5228	1	Spring-Return				
11	100-5307	1	Nipple ASM				
12	100-5202	2	O-Ring				
13	100-5161	1	Solenoid ASM				
14	100-5162	1	O-Ring				
15	100-5303	1	Filter ASM				
16	100-5304	1	Washer				
17	100-5205	1	Gasket-Delivery				
18	100-5206	1	O-Ring				
19	100-5212	1	Wire ASM				



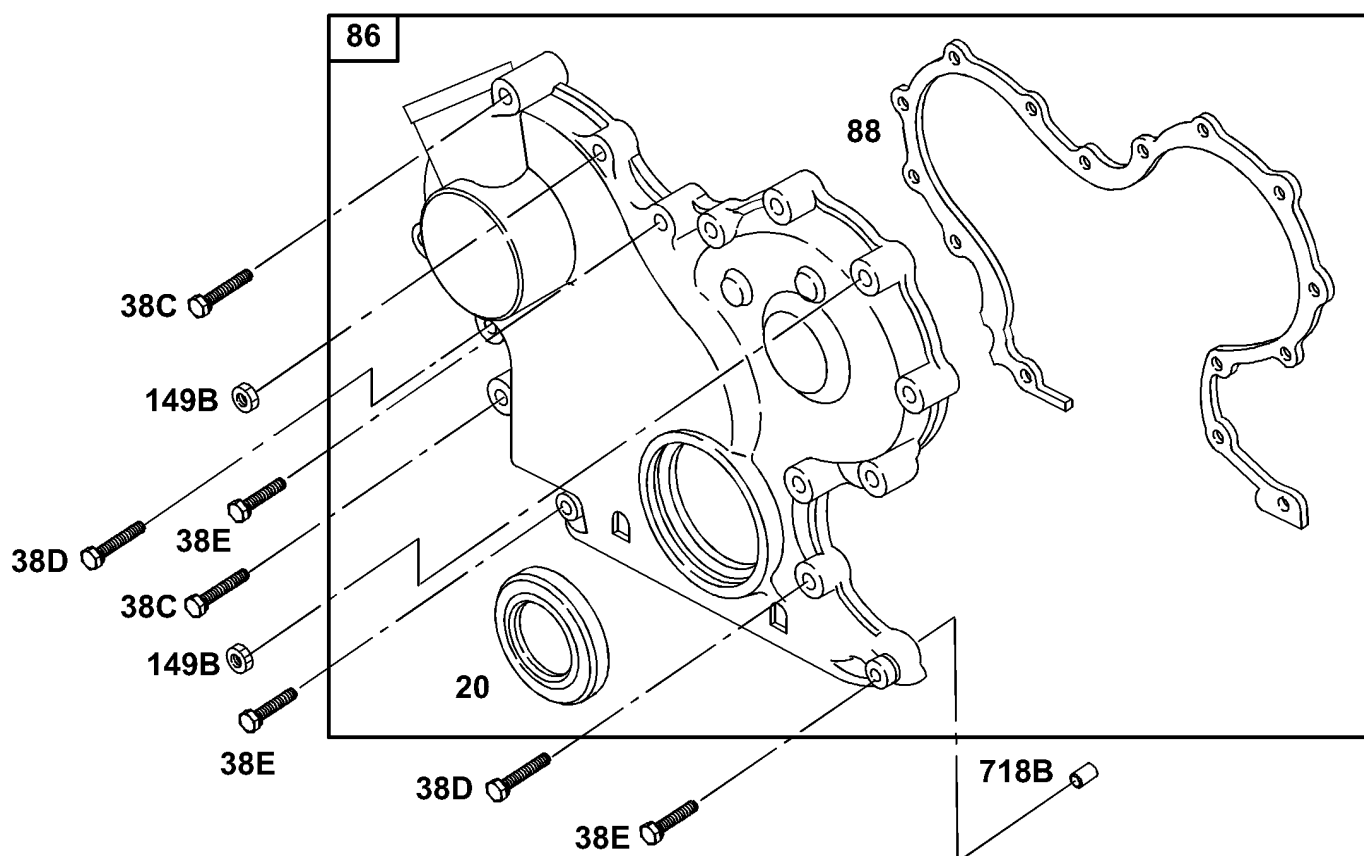
Rocker Arm Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
6	99-9079	3	Washer-Flat	1074	99-9109	1	Retainer-Camshaft
33	99-9638	3	Valve-Exhaust	154C	99-9091	3	Nut-Hex, Metric
34	99-9639	3	Valve-Intake	615A	99-9099	2	Retainer
35	99-9640	6	Spring-Valve				
40	99-9084	6	Retainer-Valve				
42	99-9086	1	Keeper-Valve				
45	99-9088	6	Tappet-Valve				
46	99-9641	1	Gear-Cam				
192	99-9092	6	Adjuster-Arm, Rocker				
230	99-9093	3	Washer-Spacer				
238	99-9094	6	Cap-Valve				
294	99-9090	1	Screw-Metric				
377	99-9642	1	Key-Timing				
38A	99-9083	3	Screw-Hex				
42A	99-9087	6	Keeper-Valve (Set Of Six)				
44C	99-9085	1	Screw-Metric				
553	99-9096	6	Seat-Spring, Valve				
554	99-9097	1	Shaft-Cam				
868	99-9643	6	Seal-Valve				
1026	99-9103	6	Rod-Push				
1029	99-9104	1	Arm-Rocker				
1030	99-9106	1	Shaft-Arm, Rocker				
1031	99-9107	3	Support-Arm, Rocker				
1060	99-9108	2	Spring-Shaft, Rocker				



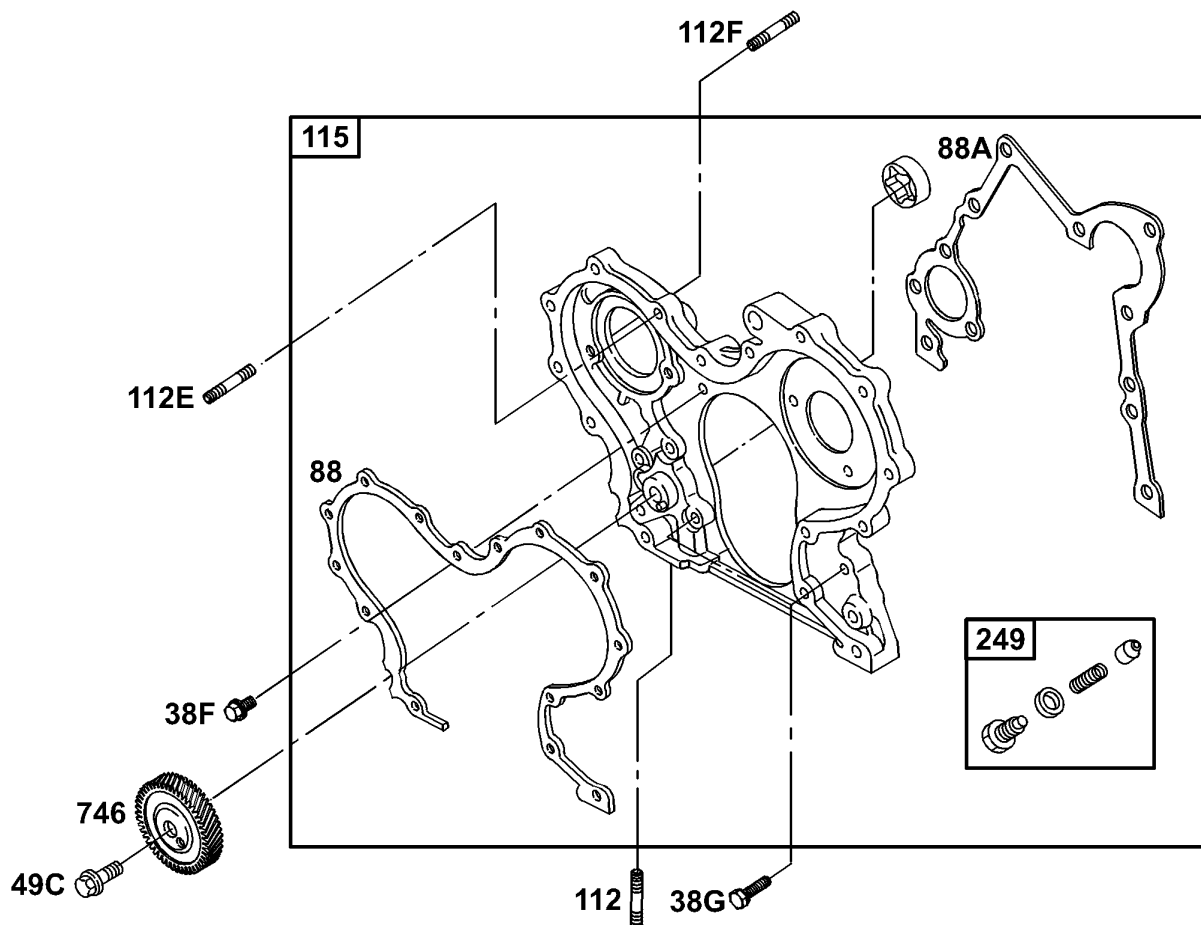
Oil Pan Assembly

Ref	Part No.	Qty.	Description				
1070	99-9120	1	Gasket-Strainer, Oil				
1078	99-9121	1	Gasket-Pan, Oil				
1082	100-6405	1	Dipstick				
1088	99-9649	1	Pan-Oil				
112D	99-9112	2	Stud-Metric				
149A	99-9113	2	Nut-Hex, Metric				
149B	99-9114	2	Nut-Hex, Metric				
15	99-9644	1	Plug-Drain, Oil				
16	99-9256	1	Screw-Hex				
239	99-9115	1	Switch-Pressure, Oil				
243	99-9116	1	Screen-Pump, Oil				
292	99-9265	1	O-Ring (Dipstick)				
355A	99-9645	1	Washer-Seal				
38B	99-9111	18	Screw-Hex				
517	100-6406	1	Tube-Dipstick				



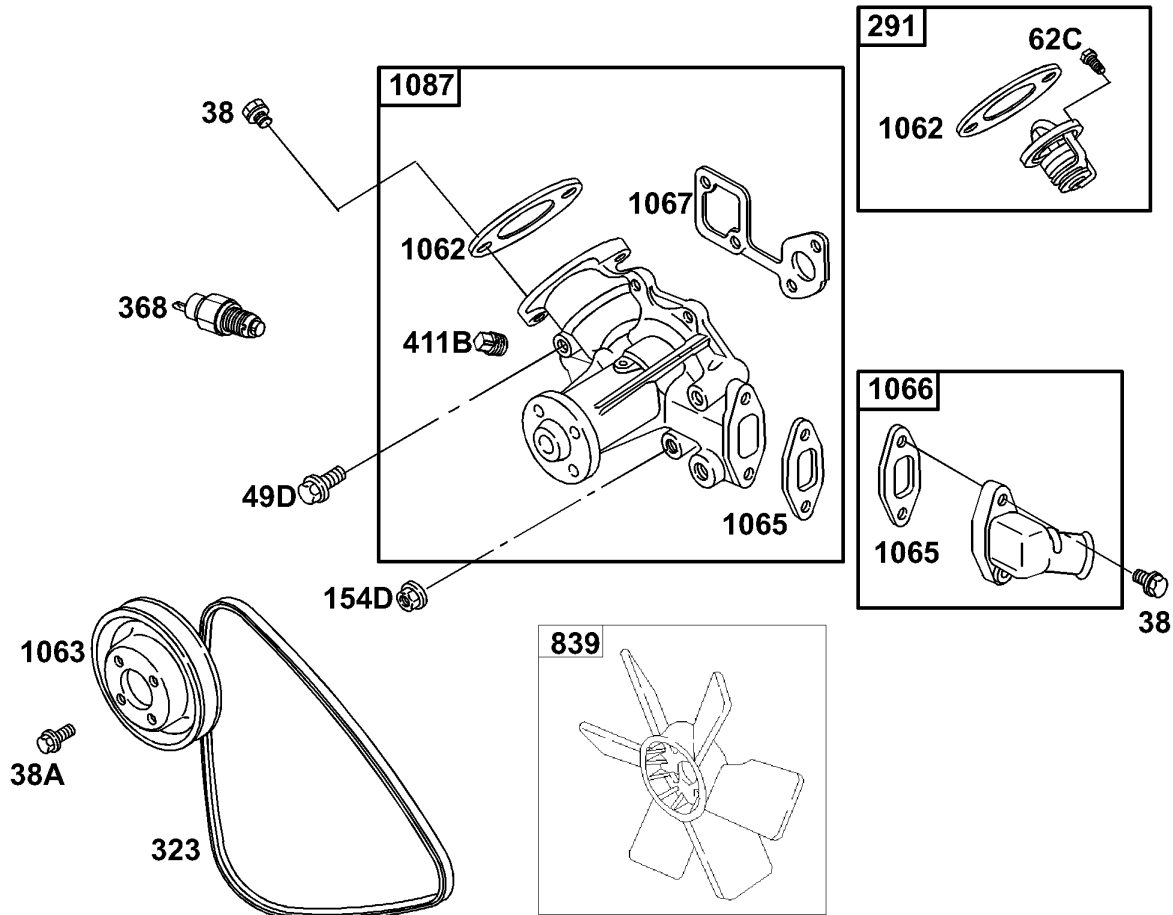
Cover Assembly

Ref	Part No.	Qty.	Description				
20	99-9126	1	Seal-Oil				
86	99-9652	1	Gear Cover ASM				
88	99-9653	1	Gasket-Cover, Gear				
38C	99-9651	2	Screw-Hex				
38D	99-9128	9	Screw-Hex				
38E	99-9129	3	Screw-Hex				
149B	99-9114	2	Nut-Hex, Metric				
718B	99-9014	1	Pin-Locating				



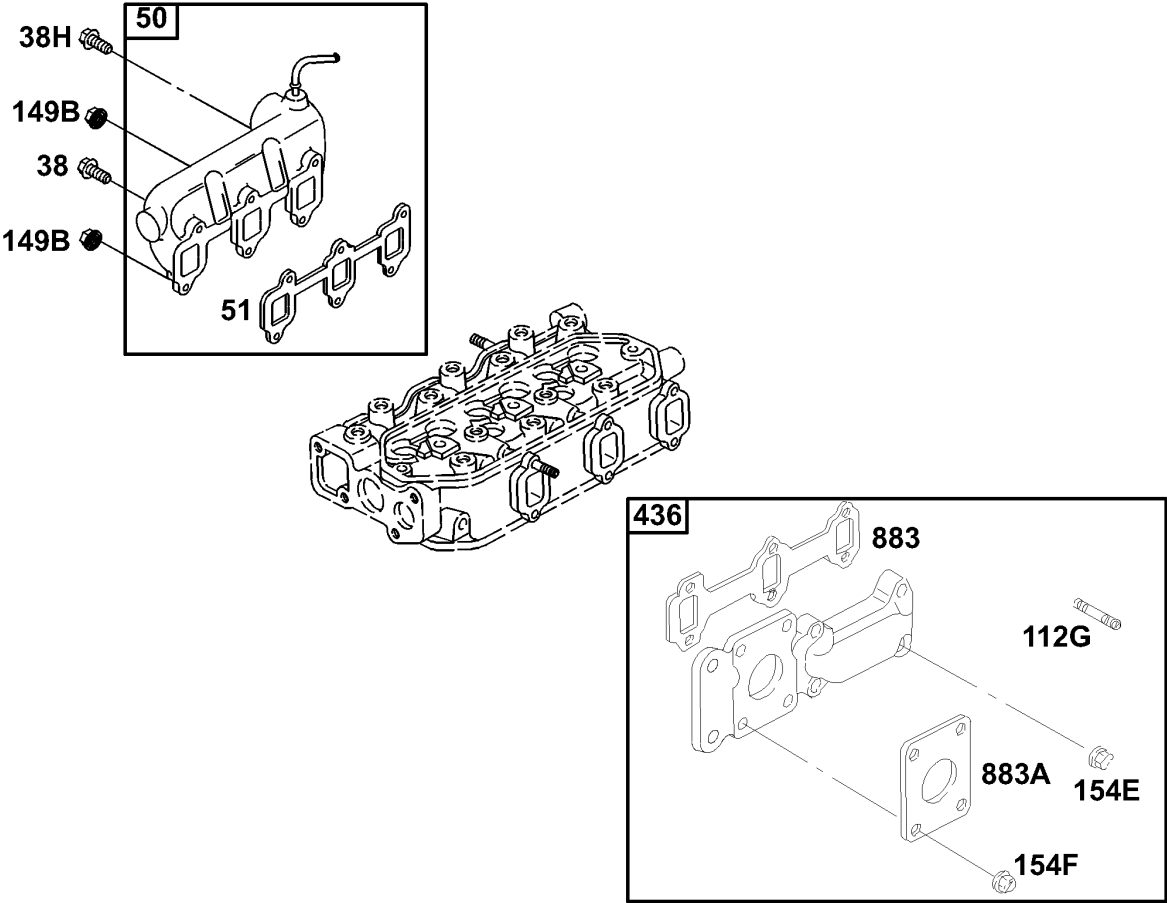
Gear Housing Assembly

Ref	Part No.	Qty.	Description				
88	99-9653	1	Gasket-Cover, Gear				
112	99-9007	1	Stud-Metric				
115	99-9655	1	Housing-Gear				
249	99-9142	1	Valve-Relief, Oil				
38F	99-9134	1	Screw-Hex				
38G	99-9133	4	Screw-Hex				
49C	99-9135	1	Screw-Hex				
746	99-9656	1	Gear-Drive				
88A	99-9136	1	Gasket-Cover, Gear				
112E	99-9137	2	Stud-Metric				
112F	99-9654	2	Stud-Metric				



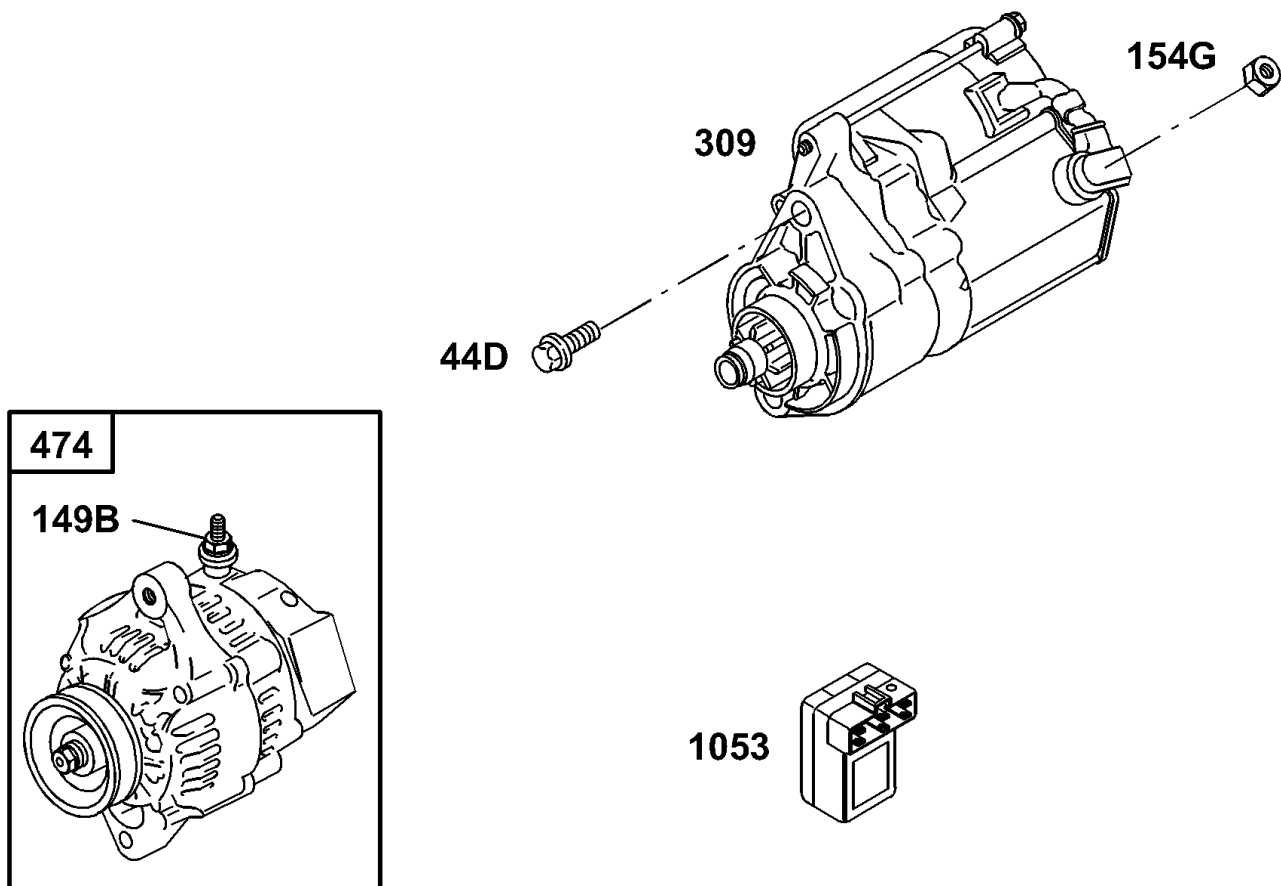
Water Pump Assembly

Ref	Part No.	Qty.	Description				
1062	99-9163	1	Gasket-Outlet				
1063	99-9164	1	Pulley-Pump				
1065	99-9166	1	Gasket-Housing, Inlet				
1066	99-9167	1	Housing-Inlet				
1067	99-9168	1	Gasket-Pump, Water				
1087	105-3832	1	Pump-Water				
154D	99-9153	1	Nut-Hex, Metric				
291	99-9155	1	Thermostat				
323	99-8153	1	Belt-V				
368	99-9157	1	Switch-Temperature, Water				
38	99-9004	2	Screw-Hex				
38A	99-9111	4	Screw-Hex				
411B	99-9159	1	Plug				
49D	99-9151	2	Screw-Hex				
62C	99-9152	1	Screw-Metric				
839	93-2090	1	Fan-Engine				



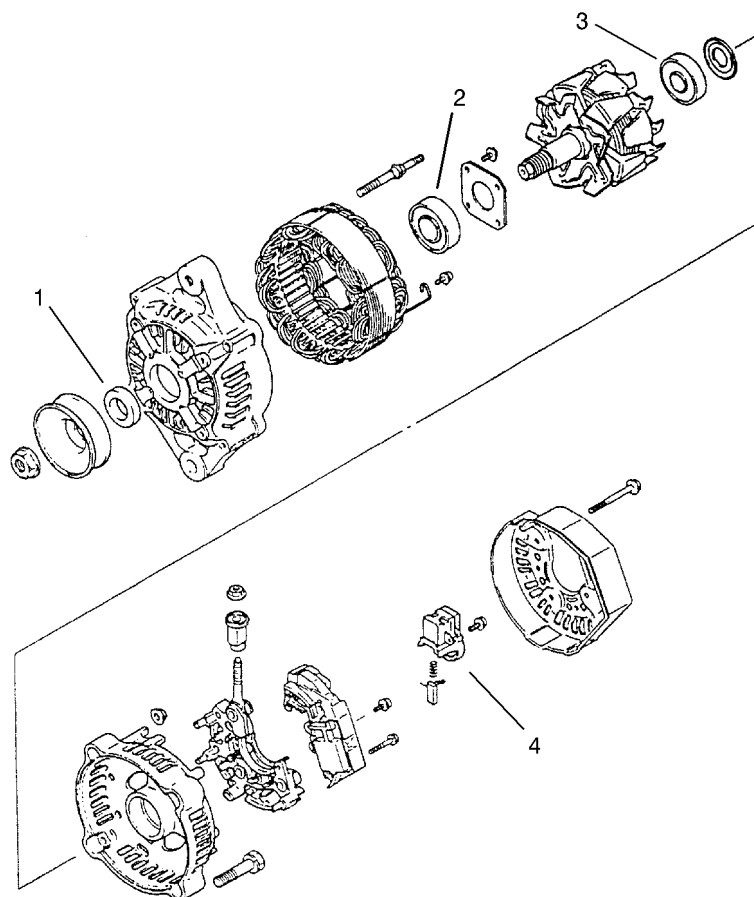
Manifold Assembly

Ref	Part No.	Qty.	Description				
38	99-9004	1	Screw-Hex				
50	99-9661	1	Manifold-Intake				
51	99-9662	1	Gasket-Intake				
38H	99-9660	3	Screw-Hex				
436	99-9177	1	Manifold-Exhaust				
883	99-9178	1	Gasket-Exhaust				
112G	100-6407	4	Stud-Manifold, Exhaust				
149B	99-9114	2	Nut-Hex, Metric				
154E	99-9175	6	Nut-Hex, Metric				
154F	99-9176	4	Nut-Hex				
883A	99-9179	1	Gasket-Exhaust				



Alternator Assembly

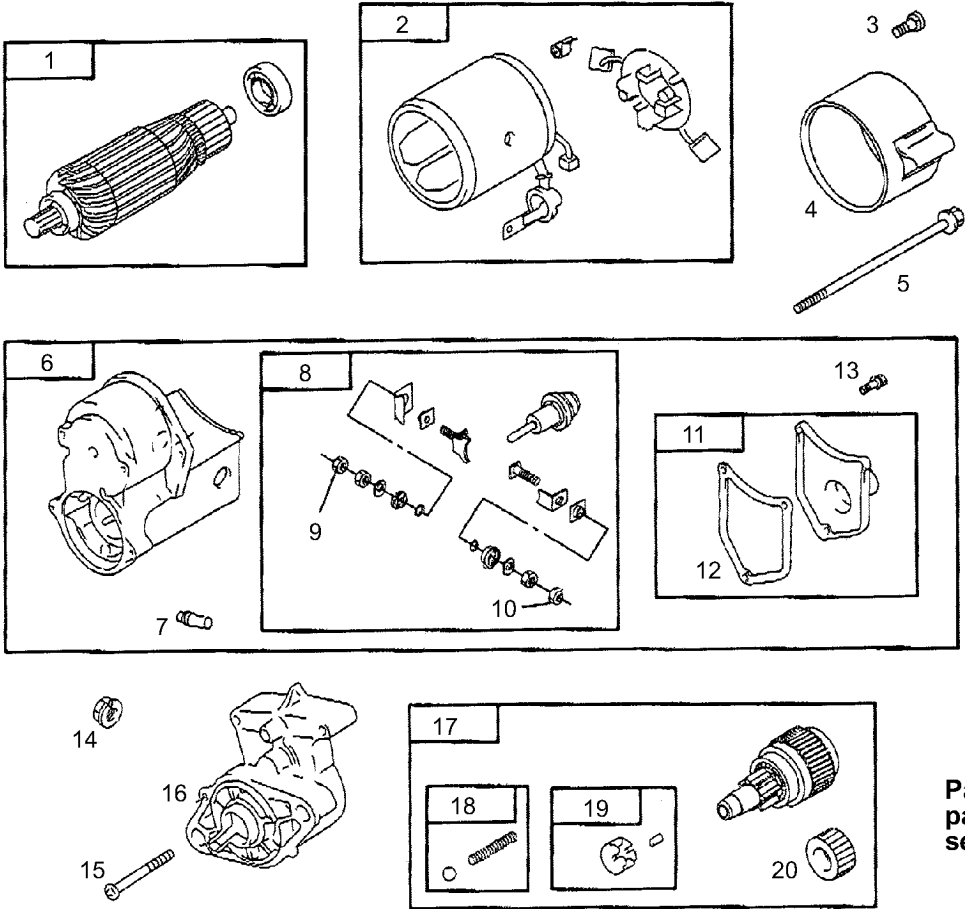
Ref	Part No.	Qty.	Description
309	104-7716	1	Motor-Starter
44D	99-9201	2	Screw-Hex
474	99-9209	1	Alternator
1053	99-9666	1	Module
149B	99-9114	1	Nut-Hex, Metric
154G	99-9206	1	Nut-Hex, Metric



**Parts not listed in
part list are not
serviced separately**

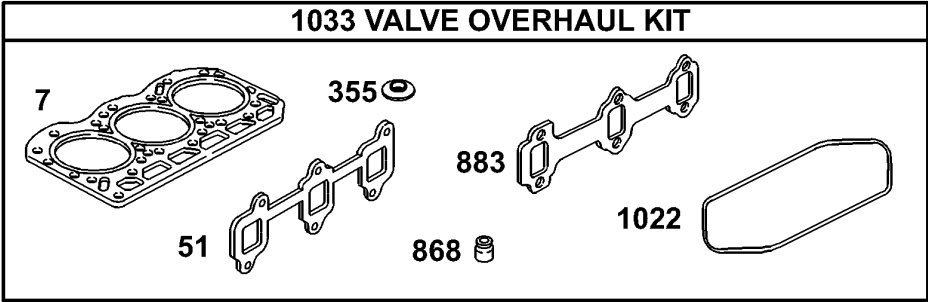
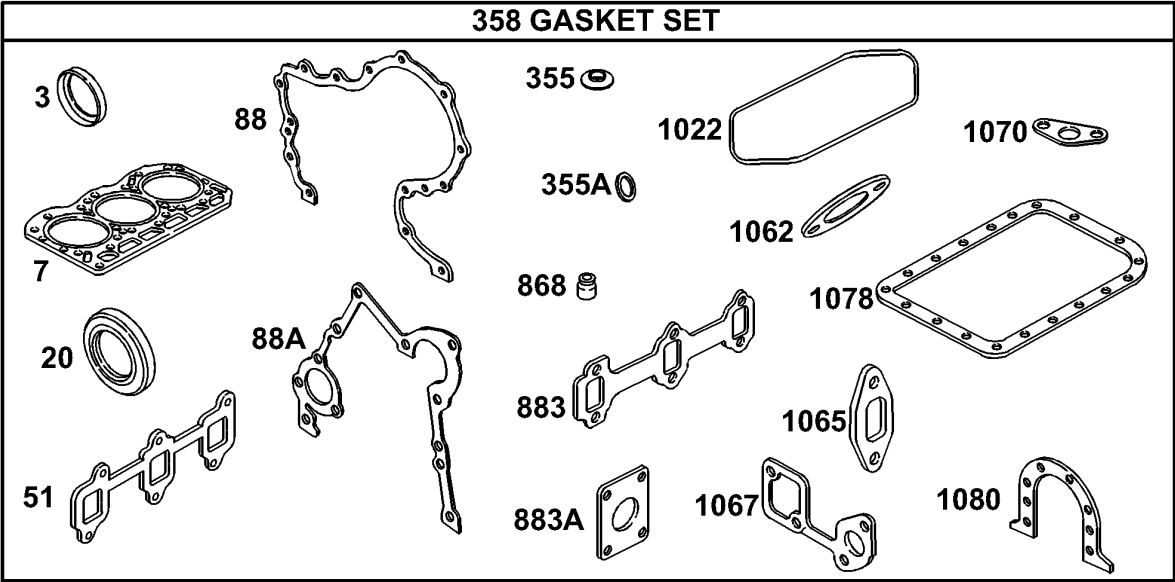
Alternator Assembly No. 99-9209

Ref	Part No.	Qty.	Description
1	100-5315	1	Collar
2	100-5316	1	Bearing
3	100-5317	1	Bearing
4	100-5318	1	Brush Holder ASM



Starter Motor Assembly No. 104-7716

Ref	Part No.	Qty.	Description				
1	105-8638	1	Armature-Starter				
2	105-8639	1	Housing-Starter				
3		1	Screw				
4		1	End Cap				
5		1	Screw				
6	105-8640	1	Solenoid-Starter				
7		1	Vent Plug				
8	105-8636	1	Plunger/terminal Kit				
9		2	Nut				
10		2	Nut				
11		1	Solenoid Cover				
12		1	Gasket-Solenoid Cover				
13		1	Screw				
14		1	Nut				
15		1	Screw				
16		1	Drive Cap				
17	105-8637	1	Drive-Starter				
18		1	Spring Detent				
19		1	Clutch Roller				
20		1	Starter Drive Gear				



Gasket and Valve Overhaul Kit

Ref	Part No.	Qty.	Description				
3	99-9003	1	Seal-Oil				
7	99-9612	1	Gasket-Head, Cylinder				
20	99-9126	1	Seal-Oil				
51	99-9662	1	Gasket-Intake				
88	99-9653	1	Gasket-Cover, Gear				
355	99-9063	1	Washer-Seal				
358	99-9667	1	Gasket-Set				
868	99-9643	6	Seal-Valve				
883	99-9178	1	Gasket-Exhaust				
88A	99-9136	1	Gasket-Cover, Gear				
1022	99-9073	1	Gasket-Cover, Rocker				
1033	99-9668	1	Valve Overhaul Kit				
1062	99-9163	1	Gasket-Outlet				
1065	99-9166	1	Gasket-Housing, Inlet				
1067	99-9168	1	Gasket-Pump, Water				
1070	99-9120	1	Gasket-Strainer, Oil				
1078	99-9121	1	Gasket-Pan, Oil				
1080	99-9021	1	Gasket-Retainer				
355A	99-9645	1	Washer-Seal				
883A	99-9179	1	Gasket-Exhaust				

NOTES

NOTES

