Form Number 3329-632

Sand Pro® 5020

Model No. 08886 - 230000501 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
ASM. . . . . assembly
CARR. . . . . carriage
DEG. . . . . degrees
FH. . . . . flat head
GA. . . . . gauge
HF. . . . . hex flange
HH. . . . . hex head
HHF. . . . . hex head flange
HHFTF. . . . . hex head flange thread forming
HJ. . . . . hex jam
HLH. . . . . hex lag head
HOC. . . . . height-of-cut
HS. . . . . hex
HSBH. . . . . hex socket button head
HSFH. . . . . hex socket flat head
HSH. . . . . hex socket head
HWH. . . . . hex washer head
HWHTF. . . . . hex washer head thread forming
HYD. . . . . hydraulic
INC. . . . . incorporated
LH. . . . . left hand
NI. . . . . nylon insert
PPH. . . . . phillips pan head
PTH. . . . . phillips truss head
PTO. . . . . power take off
RH. . . . . right hand
SFH. . . . . slotted fillister head
SHH. . . . . slotted hex head
SHWH. . . . . slotted hex washer head
SPH. . . . . slotted pan head
SQH. . . . . square head
SRH. . . . . slotted round head
STD. . . . . standard
TAP. . . . . self tapping
TTH. . . . . torx truss head

Footnotes

❶ Not illustrated
❷ Not serviced separately
❸ Included in Carburetor Kit-Part No. 808395
❹ Included in Gasket Set-Part No. 808389
❺ Included in Valve Overhaul Kit-Part No. 808391

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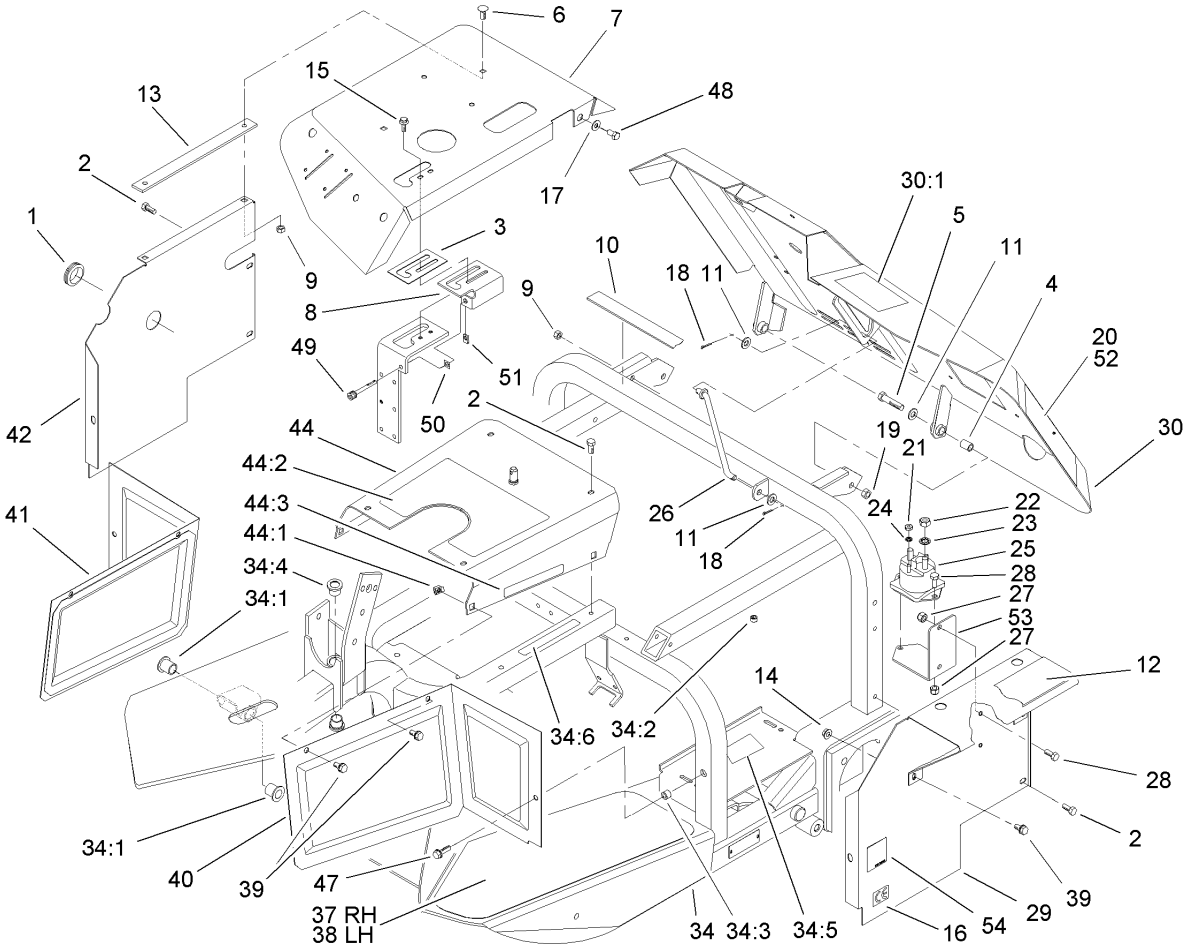
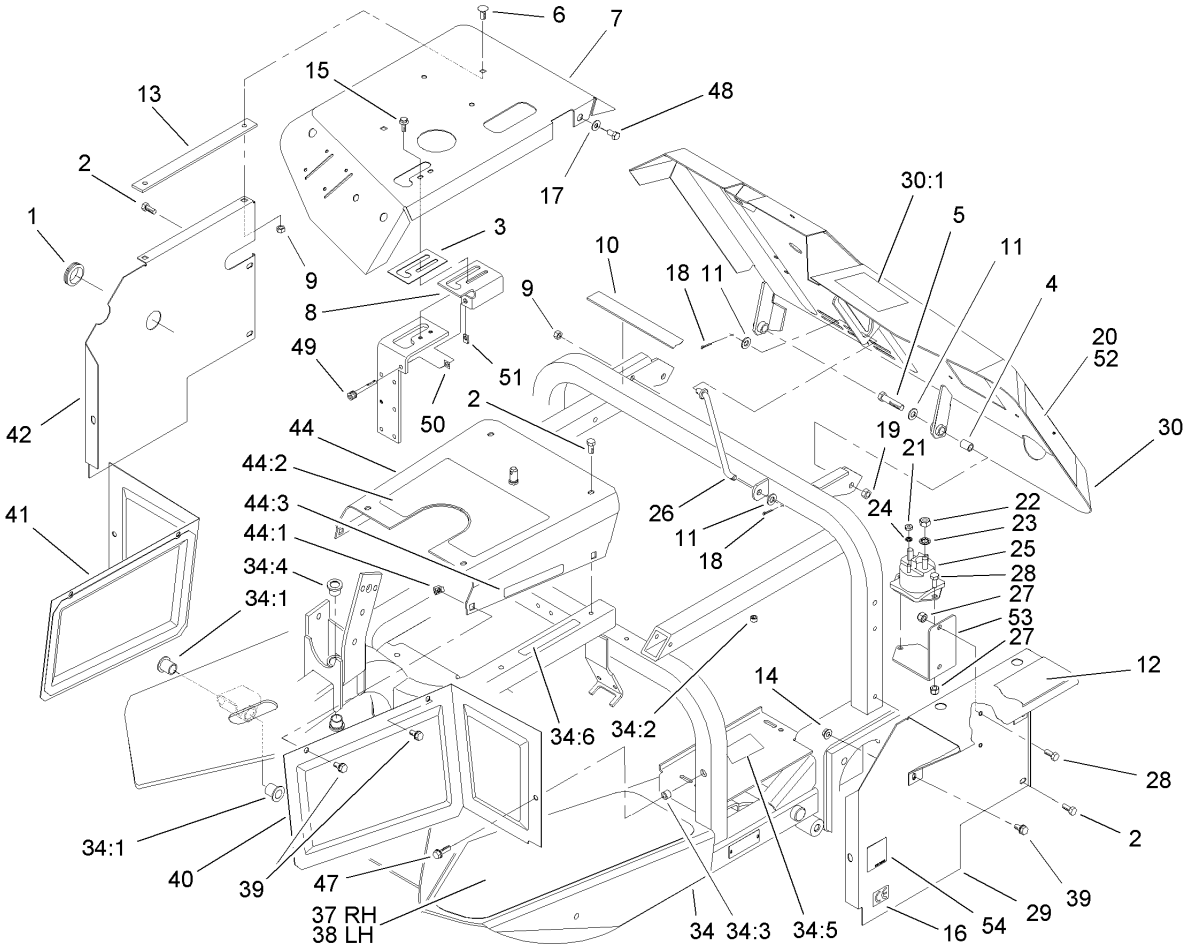


Frame and Shroud Assembly

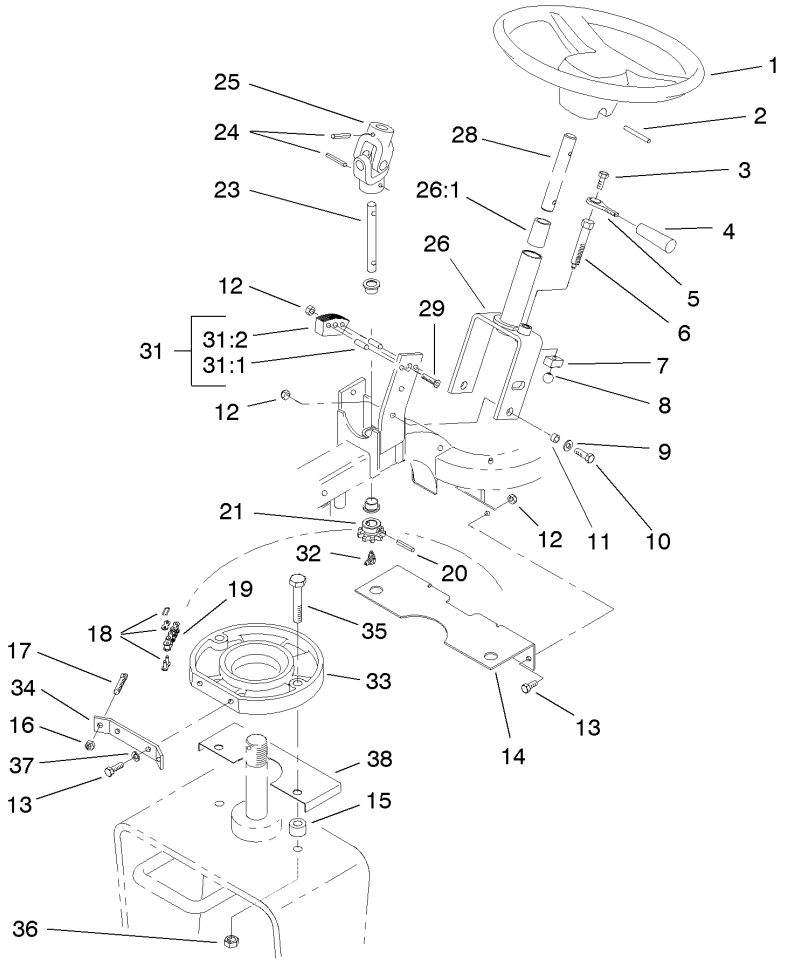
Ref	Part No.	Qty.	Description
1	240-3	1	Grommet-Rubber
2	32144-11	8	Screw-TAP
3	99-1629	1	Guide-Lever
4	85-0290	2	Spacer-Pivot, Seat
5	323-9	2	Screw-HH
6	3230-20	2	Screw-CARR
7	98-0918-01	1	Fender-RH
8	98-8160	1	Plate-Latch, Lever
9	3296-29	3	Nut-Lock, NI
10	98-0980	1	Strip-Base, Seat
11	3256-24	4	Washer-Flat
12	98-0981	1	Pad-Base, Seat
13	98-0982	1	Strip-Fender
14	32128-20	1	Nut-HF
15	3234-4	2	Screw-HHF
16	93-7252	1	Decal
17	3256-2	1	Washer-Flat
18	3272-4	2	Pin-Cotter
19	3296-39	2	Nut-Lock, NI
20	106-8105	2	Decal
21	3219-14	2	Nut-Hex
22	3218-13	2	Nut-Jam
23	3254-2	2	Washer-Lock, Int
24	3254-1	2	Washer-Lock, Int
25	28-4210	1	Solenoid

Ref	Part No.	Qty.	Description
26	98-0917	1	Rod-Prop
27	32128-33	4	Nut-HF
28	321-3	4	Screw-HH
29	98-0966-03	1	Panel-Rear, LH
30	98-8150	1	Seat Base ASM
30:1	93-9053	1	Decal-Warning
34	98-0962	1	Frame ASM
34:1	256-219	2	Bushing
34:2	32148-11	1	Insert-Threaded
34:3	32148-8	2	Insert-Threaded
34:4	65-8770	2	Bushing-Bellcrank
34:5	93-6668	1	Decal-Battery
34:6	93-9052	1	Decal-Danger
37	85-8780	1	Tread-Floor, RH
❶38	85-8790	1	Tread-Floor, LH
39	3234-7	5	Screw-HHF
40	85-9680-01	1	Panel-LH
41	85-8490-01	1	Panel-RH
42	98-0902-03	1	Panel-Rear, RH
44	98-0965	1	Top Panel ASM
44:1	3290-496	4	Nut-Retainer
44:2	93-9050	1	Decal-Instructions, Operating
44:3	93-9052	2	Decal-Danger
47	3234-29	2	Screw-HHF
48	322-2	1	Screw-HH



Frame and Shroud Assembly (continued)

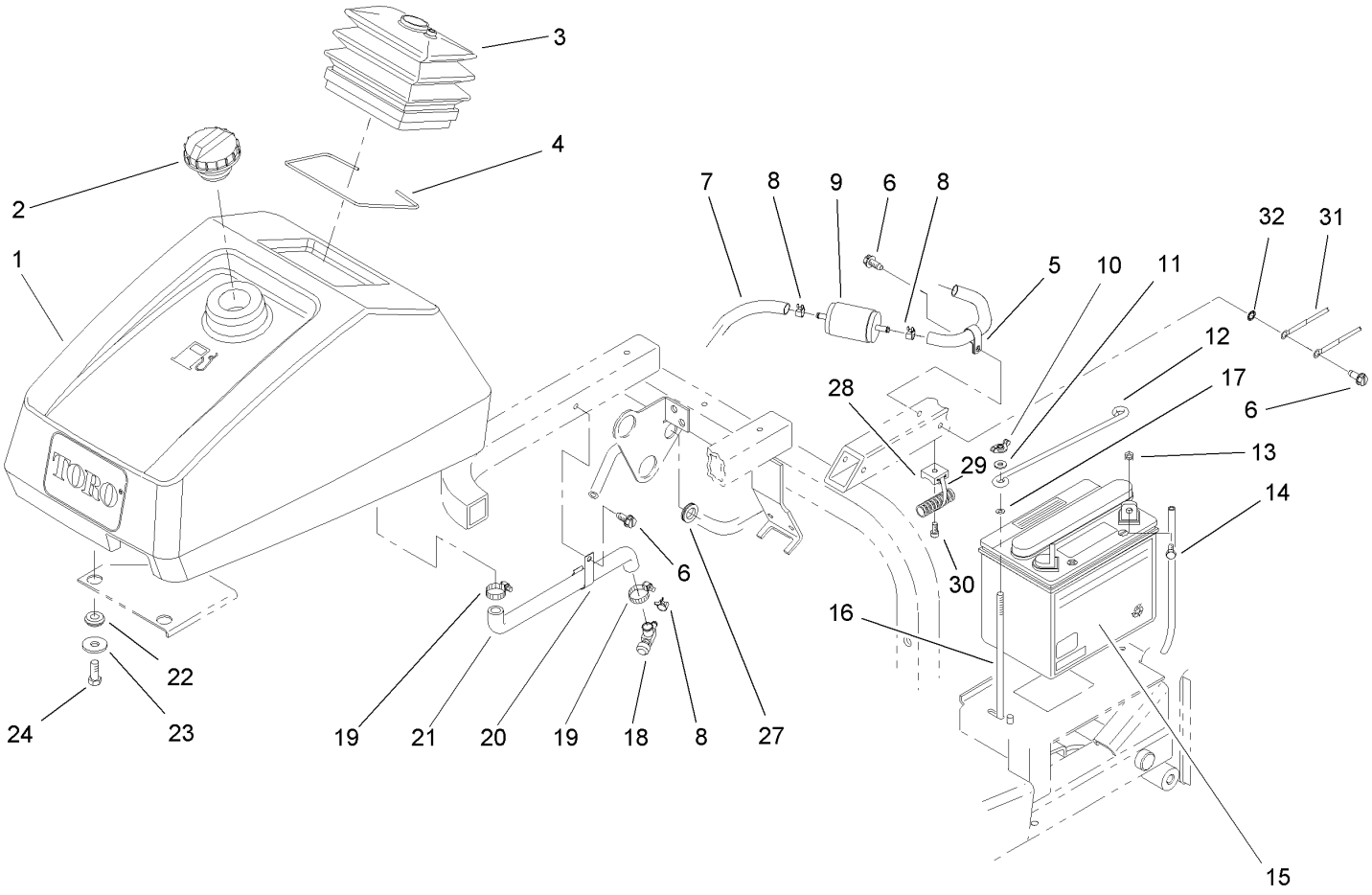
Ref	Part No.	Qty.	Description
49	3274-56	1	Screw-HSH
50	32115-15	1	Pushnut-Retainer, Bolt
51	3290-199	1	Nut-Speed
52	106-8106	2	Decal
53	105-7884-03	1	Bracket-Solenoid
54	105-2699	1	Decal-Noise



Steering Assembly

Ref	Part No.	Qty.	Description
1	76-1420	1	Wheel-Steering
2	32121-111	1	Pin-Roll
3	322-43	1	Screw-HH
4	233-39	1	Knob-Control
5	88-8280	1	Lever-Adjustment, Steering
6	94-4514	1	Pin-Lock, Tilt
7	88-8530	1	Block-Lock, Upper
8	94-4513	1	Ring-Retaining
9	3256-23	3	Washer-Flat
10	322-5	3	Screw-HH
11	85-9120	3	Spacer-Pivot, Tilt
12	3296-29	6	Nut-Lock, NI
13	322-3	4	Screw-HH
14	98-0983-01	1	Bracket-Tank, Fuel
15	98-0978	2	Spacer
16	3296-4	2	Nut-Lock, NI
17	18-6380	2	Pin-Adjustment, Steering
18	2710-11	2	Link-Chain
19	85-8030	1	Chain
20	98-0973	1	Pin-Grooved
21	85-9180	1	Sprocket-Steering
23	98-0928	1	Shaft-Steering, Lower
24	32121-15	2	Pin-Roll
25	85-9200	1	Knuckle-Steering
26	88-8290	1	Steering Bracket ASM

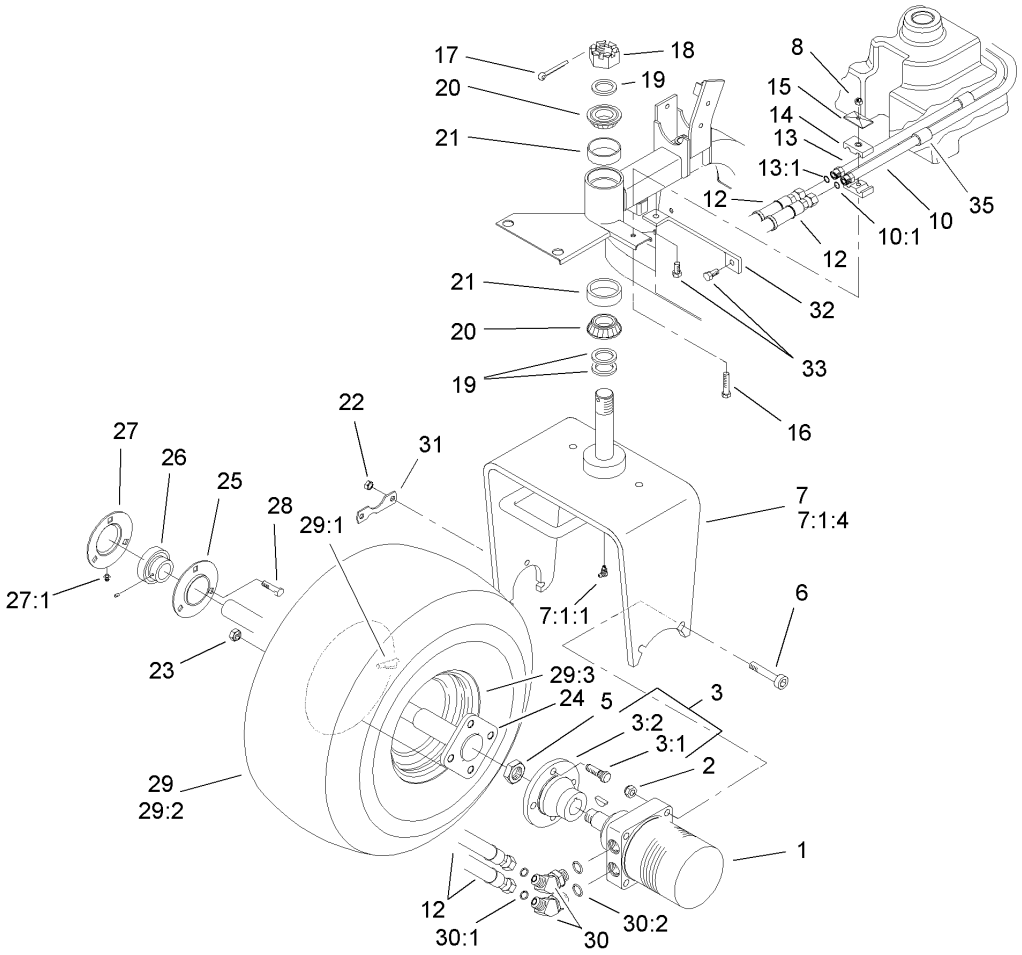
Ref	Part No.	Qty.	Description
26:1	256-185	1	Bushing
28	85-9220	1	Shaft-Steering, Upper
29	3289-24	1	Screw-HSFH
❷31		1	Lock Block And Pin ASM
31:1	88-8510	2	Pin-Dowel
31:2	88-8520	1	Block-Lock, Lower
32	302-33	1	Fitting-Grease
33	98-0924-01	1	Guide-Chain
34	98-0925	1	Bracket-Chain
35	325-12	2	Screw-HH
36	3296-25	2	Nut-Lock, NI
37	3253-4	2	Washer-Lock
38	98-0929-01	1	Plate-Stay, Chain



Fuel Tank and Battery Assembly

Ref	Part No.	Qty.	Description
1	98-0927	1	Tank-Fuel
2	93-7170	1	Cap-Fuel
3	85-9010	1	Boot-Steering
4	85-8930	1	Retainer-Boot
5	2412-93	1	Clamp-R
6	32144-11	3	Screw-TAP
7	98-0976	1	Hose-Fuel
8	2412-98	3	Clamp
9	94-2690	1	Filter-Fuel
10	32103-12	2	Nut-Wing
11	3256-22	2	Washer-Flat
12	72-4790	1	Hold Down-Battery
13	3217-5	2	Nut-Hex
14	321-3	2	Screw-HH
15	104-8162	1	Battery
16	56-7720	2	Post-Battery
17	237-143	2	O-Ring
18	83-1390	1	Fitting-Shut-Off, Fuel
19	2412-36	2	Clamp-Hose
20	2412-109	1	Clip-J
21	98-0995	1	Hose-Fuel
22	240-11	4	Grommet-Mount, Tank
23	63-8410	4	Washer
24	323-5	4	Screw-HH
27	237-124	1	Grommet

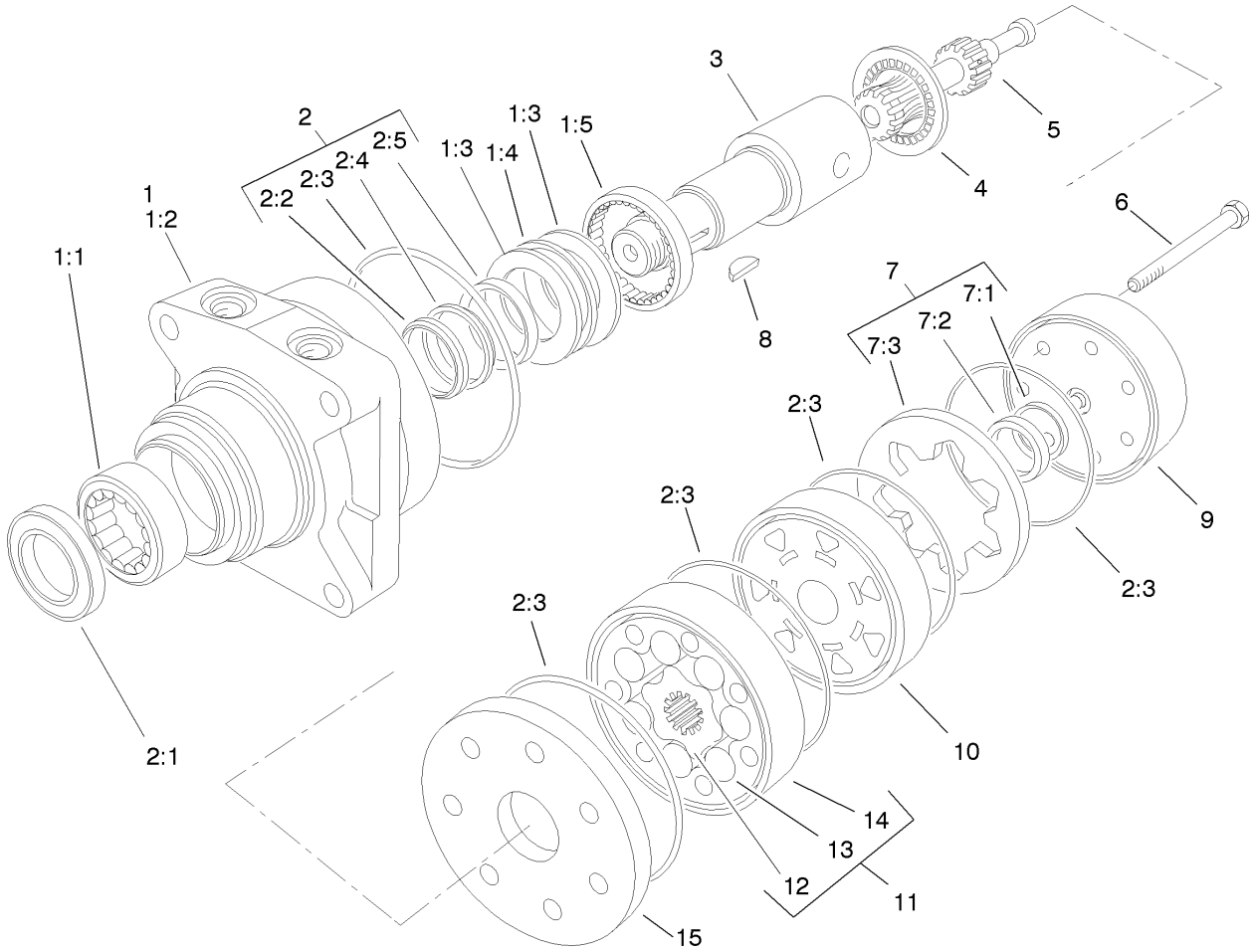
Ref	Part No.	Qty.	Description
28	3290-509	1	Mount-Tie
29	3290-378	1	Tie-Cable
30	3274-31	1	Screw-HSBH
31	98-0999	1	Ground Wire ASM
32	3254-2	1	Washer-Lock, Int



Front Wheel Assembly

Ref	Part No.	Qty.	Description
1	98-0958	1	Motor-HYD
2	3296-23	2	Nut-Lock, NI
❷3		1	Front Wheel Hub ASM
3:1	10-6830	4	Stud-Type, Drive
3:2	93-6838-03	1	Hub-Wheel
5	26-3790	1	Nut-Lock
6	3274-93	2	Screw-HSH
❷7		1	Fork ASM
7:1:1	302-33	1	Fitting-Grease
7:1:4	98-0950-01	1	Fork
8	3296-8	1	Nut-Lock, NI
10	98-0932	1	Tube-Front, LH
10:1	237-30	1	O-Ring
12	85-9640	2	Hose-HYD
13	98-0933	1	Tube-Front, RH
13:1	237-30	2	O-Ring
14	56-7976	2	Clamp-Tube
15	69-9760	1	Coverplate
16	321-10	1	Screw-HH
17	3272-37	1	Pin-Cotter
18	32136-9	1	Nut-SHH
19	18-6320	3	Washer-Steering
20	254-70	2	Bearing-Cone
21	254-61	2	Bearing-Cup
22	3296-39	3	Nut-Lock, NI

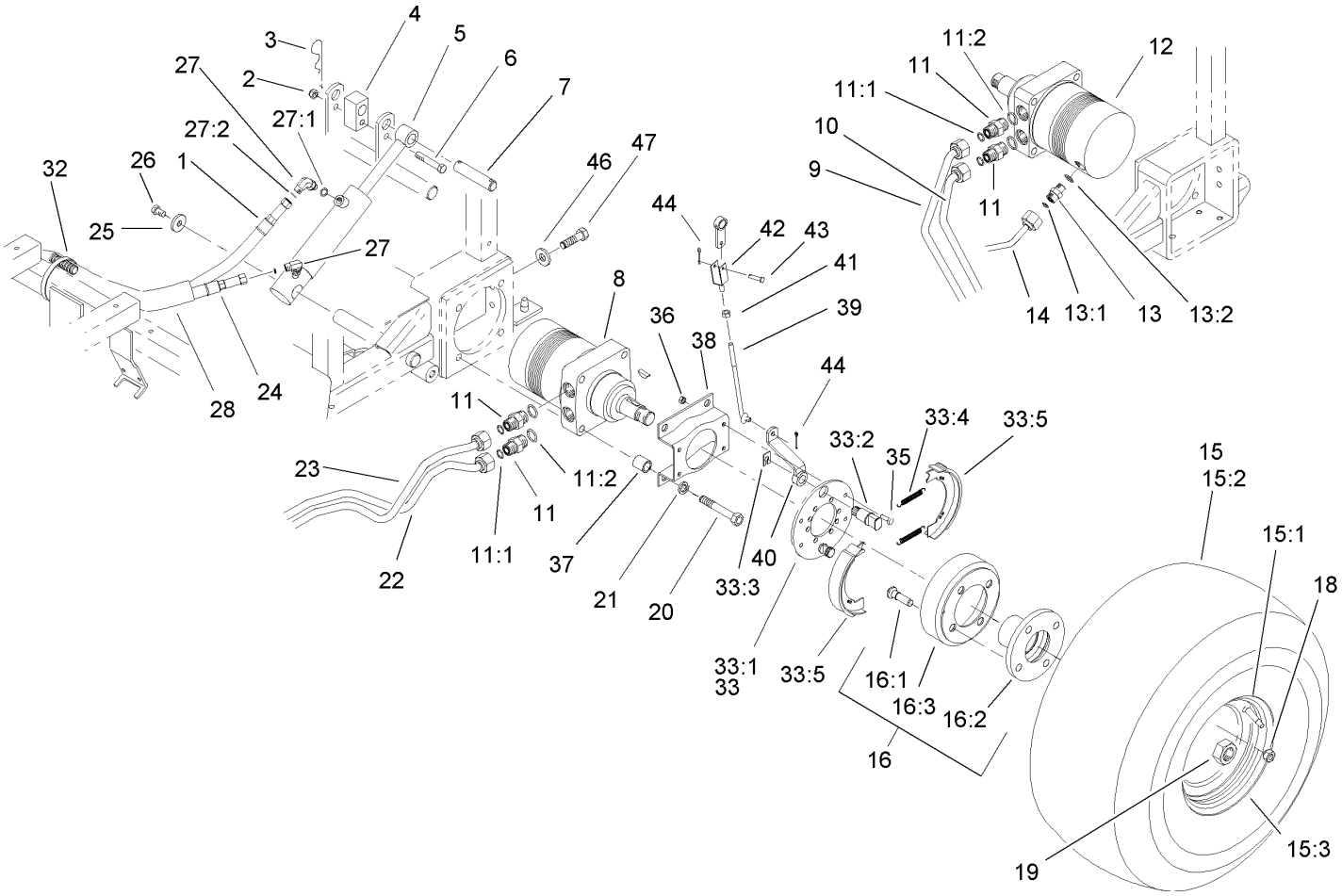
Ref	Part No.	Qty.	Description
23	242-50	4	Nut-Lug
24	92-8969	1	Spindle
25	85-8950	1	Flangette-STD
26	251-352	1	Bearing
27	85-8940	1	Flangette-Relube
27:1	302-5	1	Fitting-Grease
28	323-29	3	Screw-HH
❷29		1	Wheel And Tire ASM
29:1	232-35	1	Valve Stem And Cap ASM
29:2	85-8290	1	Tire
29:3	94-6116	1	Wheel-Rear
30	340-89	2	Fitting-Hyd, 45 DEG
30:1	237-30	1	O-Ring
30:2	237-80	1	O-Ring
31	88-8350	1	Tab-Bearing
32	98-0926-01	1	Strap
33	105-6245	2	Screw-Tapping
35	38-3400	2	Guard-Rubber



Hydraulic Motor Assembly No. 98-0958

Ref	Part No.	Qty.	Description
1	76-0810	1	Housing ASM
❷1:1		1	Bearing
❷1:2		1	Housing
❷1:3		2	Washer-Thrust
❷1:4		1	Bearing-Thrust
❷1:5		1	Bearing
2	94-8178	1	Seal Kit
❷2:1		1	Seal-Dirt And Water
❷2:2		1	Washer-Backup
❷2:3		5	Seal-Ring
❷2:4		1	Washer-Backup
❷2:5		1	Seal-Inner
❷2:6		1	Seal-Commutator
3	76-0860	1	Shaft-Coupling
4	76-0850	1	Bearing-Thrust
❷5		1	Link-Drive
❷6		7	Screw-HH
7	76-0880	1	Commutator ASM
❷7:1		1	Seal-Commutator
❷7:2		1	Commutator
❷7:3		1	Ring-Commutator
8	3257-42	1	Key-Woodruff
9	76-0940	1	End Cover ASM
❷10		1	Manifold

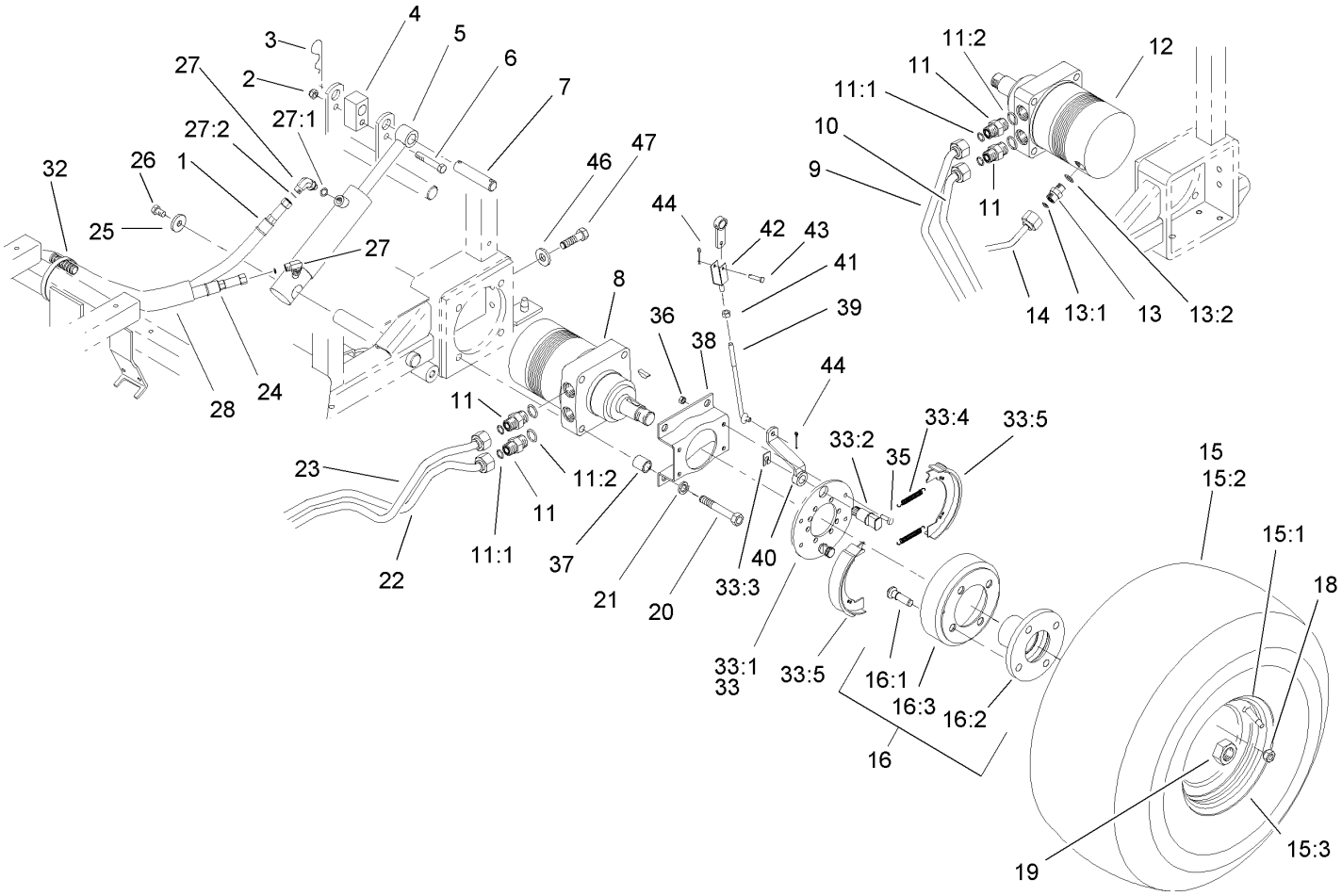
Ref	Part No.	Qty.	Description
❷11		1	Rotor Set
❷12		1	Rotor
❷13		7	Vane
❷14		1	Stator
15	76-0870	1	Plate-Wear



Rear Wheel and Lift Assembly

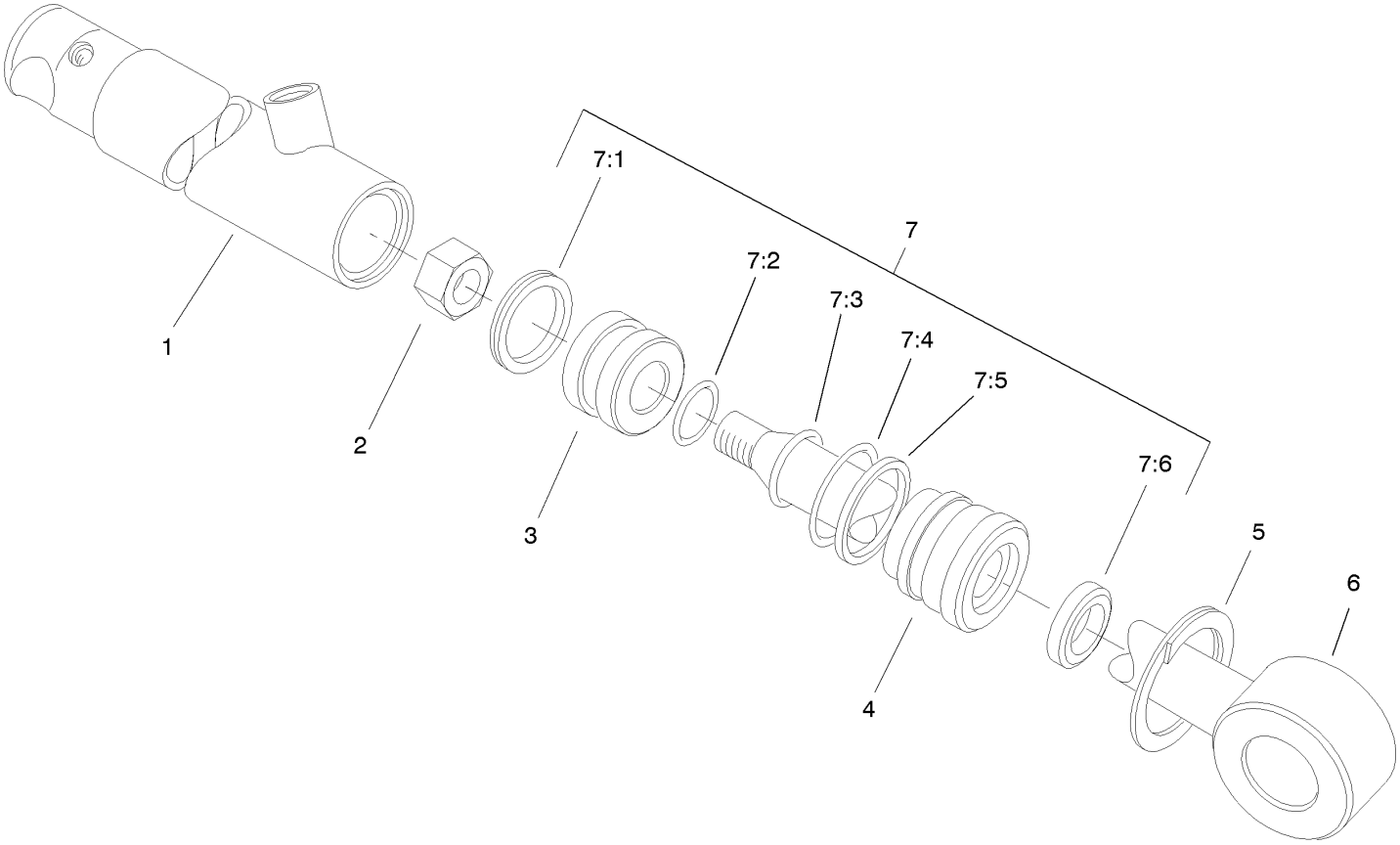
Ref	Part No.	Qty.	Description
1	85-9570	1	Hose-HYD
2	3296-39	1	Nut-Lock, NI
3	3290-256	2	Pin-Hair
4	85-9160-03	1	Spacer-Pin, Lift
5	83-7000	1	HYD Cylinder ASM
6	323-11	1	Screw-HH
7	85-9170	1	Pin-Cylinder
8	97-3055	1	Motor-HYD
9	98-0934	1	Top RH Tube ASM
10	98-0935	1	Tube-Bottom Rear, RH
11	340-6	4	Fitting-Hyd, Straight
11:1	237-30	1	O-Ring
11:2	237-80	1	O-Ring
12	98-0959	1	Motor-HYD
13	340-2	1	Fitting-Hyd, Straight
13:1	237-22	1	O-Ring
13:2	237-42	1	O-Ring
14	98-0988	1	Tube-HYD
❷15		2	Wheel And Tire ASM
15:1	232-35	1	Valve Stem And Cap ASM
15:2	85-8290	1	Tire
15:3	94-6116	1	Wheel-Rear
16	17-8149	2	Wheel Hub ASM
16:1	85-6540	4	Stud-Drive
16:2	93-6838-03	1	Hub-Wheel

Ref	Part No.	Qty.	Description
16:3	10-6850	1	Drum-Brake
18	242-50	8	Nut-Lug
19	26-3790	2	Nut-Lock
20	325-13	8	Screw-HH
21	3253-7	8	Washer-Lock
22	98-0937	1	Tube-Bottom, LH
23	98-0936	1	Tube-Rear Top, RH
24	85-9580	1	Hose-HYD
25	53-6380	1	Washer-Flat
26	323-34	1	Screw-HH
27	340-132	2	Fitting-Hyd, 90 DEG
27:1	237-78	1	O-Ring
27:2	237-21	1	O-Ring
28	56-7981	1	Sleeve-Protective
32	3334-945	1	Tie-Cable
33	104-7705	2	Brake ASM
33:1	70-9870	1	Plate-Backing
33:2	104-7707	1	Shaft-Cam, Brake
33:3	104-7706	1	E Ring-Bowed
33:4	70-9880	2	Spring-Return
33:5	70-9840	2	Shoe-Brake
35	321-4	8	Screw-HH
36	3296-42	8	Nut-Lock, NI
37	92-1715	8	Spacer
38	84-2000-03	2	Bracket-Brake



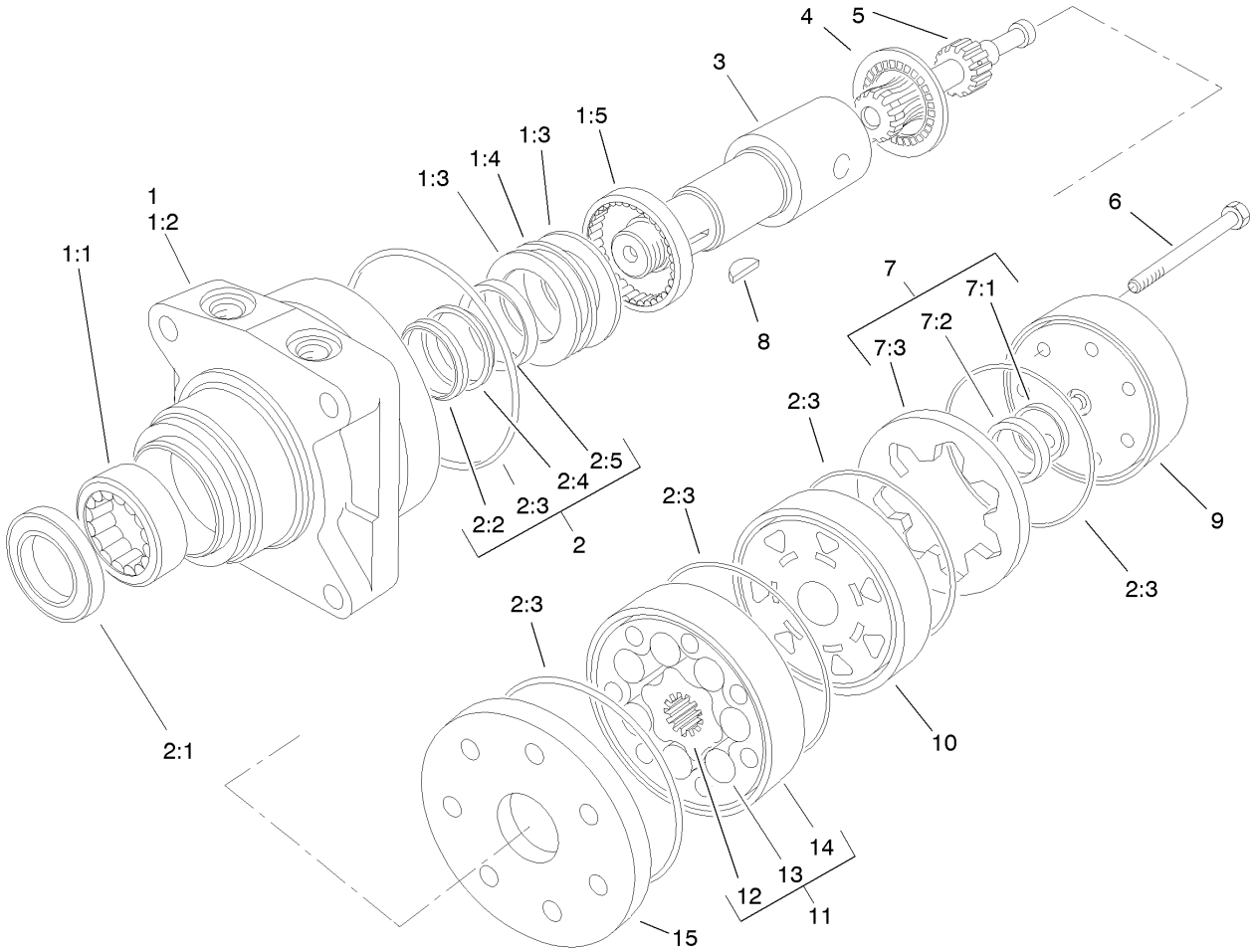
Rear Wheel and Lift Assembly (continued)

Ref	Part No.	Qty.	Description
39	95-5824	2	Rod-Adjustment
40	93-6850	2	Lever-Brake
41	3220-2	2	Nut
42	282-2	2	Yoke
43	283-26	2	Pin
44	3272-6	4	Pin-Cotter
46	3256-26	4	Washer-Flat
47	325-5	4	Screw-HH



Hydraulic Cylinder Assembly No. 83-7000

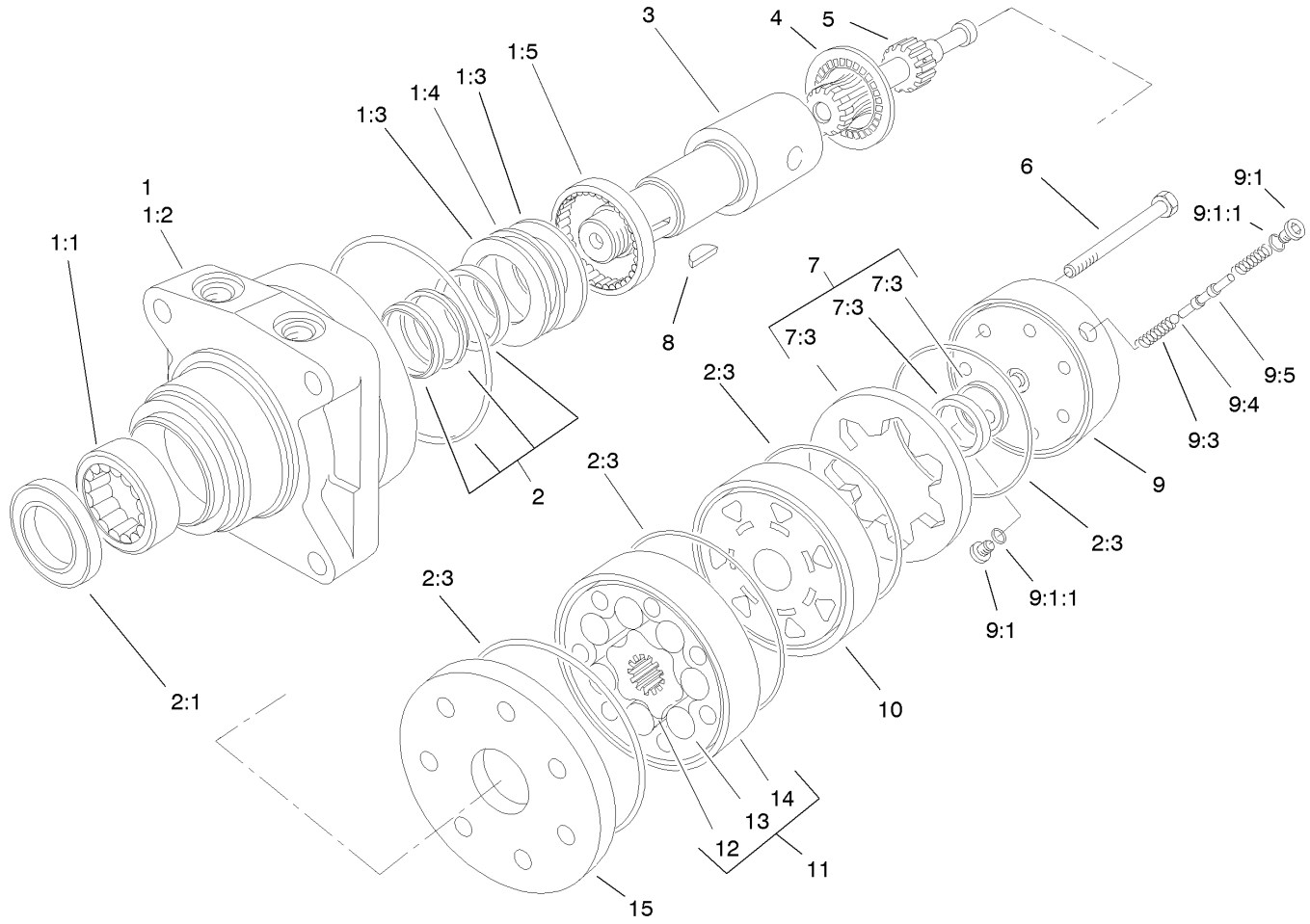
Ref	Part No.	Qty.	Description
❷1		1	Barrel ASM
2	32152-10	1	Locknut
❷3		1	Piston
❷4		1	Head
5	43-5220	1	Ring-Retaining
❷6		1	Shaft W/clevis
7	86-5360	1	Seal Repair Kit
❷7:1		1	Uniring-Grooved
❷7:2		1	O-Ring
❷7:3		1	O-Ring
❷7:4		1	O-Ring
❷7:5		1	Back-Up
❷7:6		1	Seal-Dust



Hydraulic Motor Assembly No. 97-3055

Ref	Part No.	Qty.	Description
1	76-0810	1	Housing ASM
❷1:1		1	Bearing
❷1:2		1	Housing
❷1:3		2	Washer-Thrust
❷1:4		1	Bearing-Thrust
❷1:5		1	Bearing
2	94-8178	1	Seal Kit
❷2:1		1	Seal-Dirt And Water
❷2:2		1	Washer-Backup
❷2:3		5	Seal-Ring
❷2:4		1	Washer-Backup
❷2:5		1	Seal-Inner
❷2:6		1	Seal-Commutator
3	76-0860	1	Shaft-Coupling
4	76-0850	1	Bearing-Thrust
❷5		1	Link-Drive
❷6		7	Screw-HH
7	76-0880	1	Commutator ASM
❷7:1		1	Seal-Commutator
❷7:2		1	Commutator
❷7:3		1	Ring-Commutator
8	3257-42	1	Key-Woodruff
9	76-0940	1	End Cover ASM
10	76-0840	1	Manifold

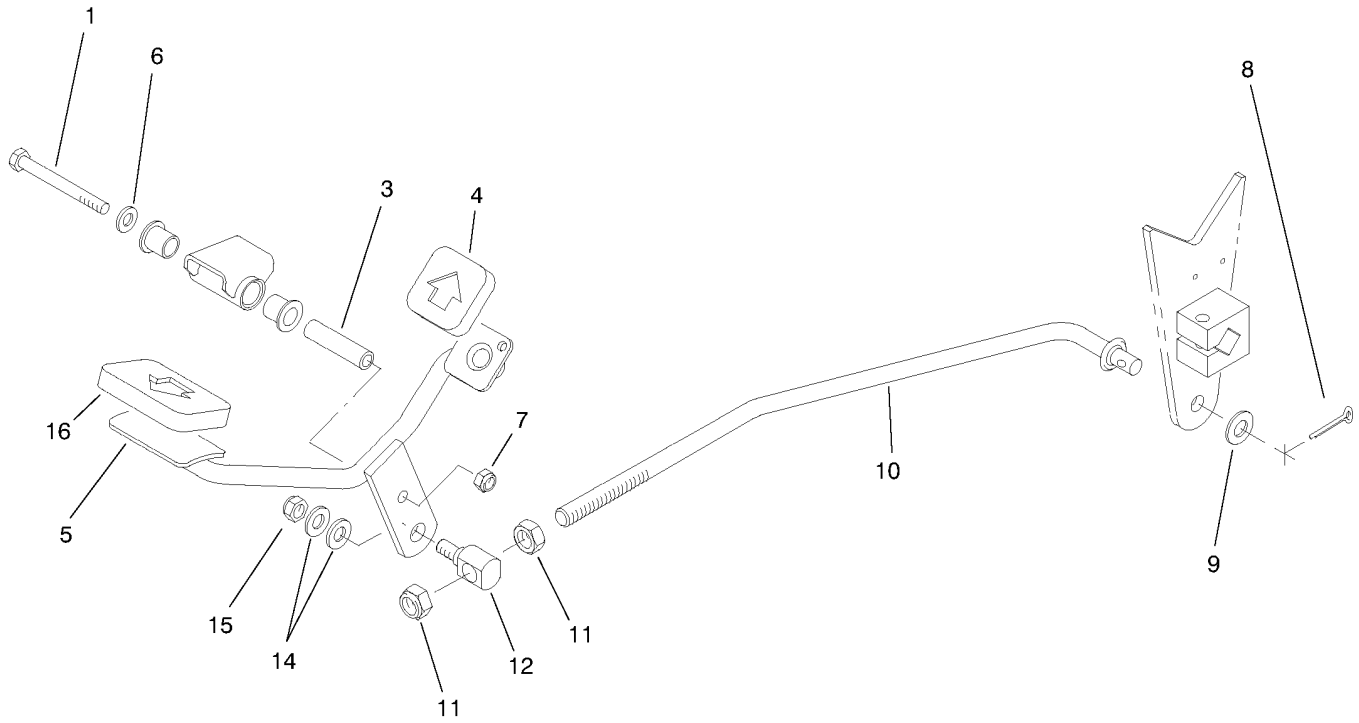
Ref	Part No.	Qty.	Description
❷11		1	Rotor Set
❷12		1	Rotor
❷13		7	Vane
❷14		1	Stator
15	76-0870	1	Plate-Wear



Hydraulic Motor Assembly No. 98-0959

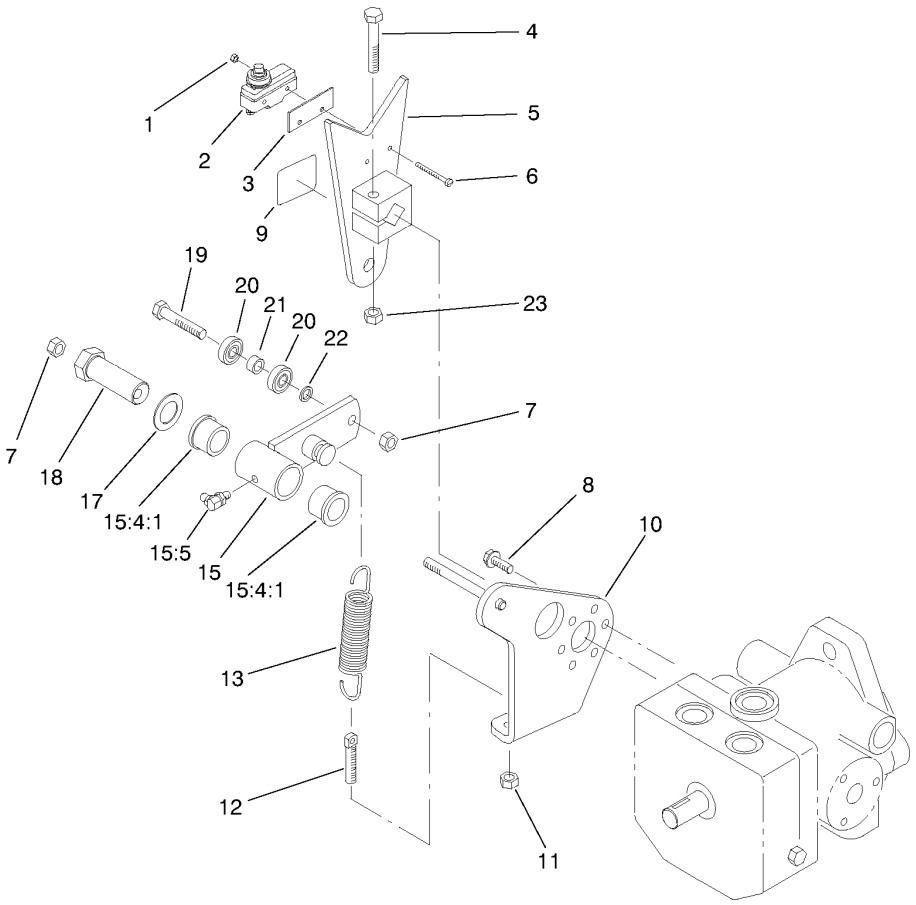
Ref	Part No.	Qty.	Description
1	76-0810	1	Housing ASM
❷1:1		1	Bearing
❷1:2		1	Housing
❷1:3		2	Washer-Thrust
❷1:4		1	Bearing-Thrust
❷1:5		1	Bearing
2	94-8178	1	Seal Kit
❷2:1		1	Seal-Dirt And Water
❷2:2		1	Washer-Backup
❷2:3		5	Seal-Ring
❷2:4		1	Washer-Backup
❷2:5		1	Seal-Inner
❷2:6		1	Seal-Commutator
3	76-0860	1	Shaft-Coupling
4	76-0850	1	Bearing-Thrust
❷5		1	Link-Drive
❷6		7	Screw-HH
7	76-0880	1	Commutator ASM
❷7:1		1	Seal-Commutator
❷7:2		1	Commutator
❷7:3		1	Ring-Commutator
8	3257-42	1	Key-Woodruff
9	76-0890	1	End Cover ASM
9:1	353-990	2	Plug

Ref	Part No.	Qty.	Description
9:1:1	237-78	1	O-Ring
❷9:3		2	Spring
❷9:4		1	Ball
❷9:5		1	Valve-Shuttle
❷10		1	Manifold
❷11		1	Rotor Set
❷12		1	Rotor
❷13		7	Vane
❷14		1	Stator
15	76-0870	1	Plate-Wear



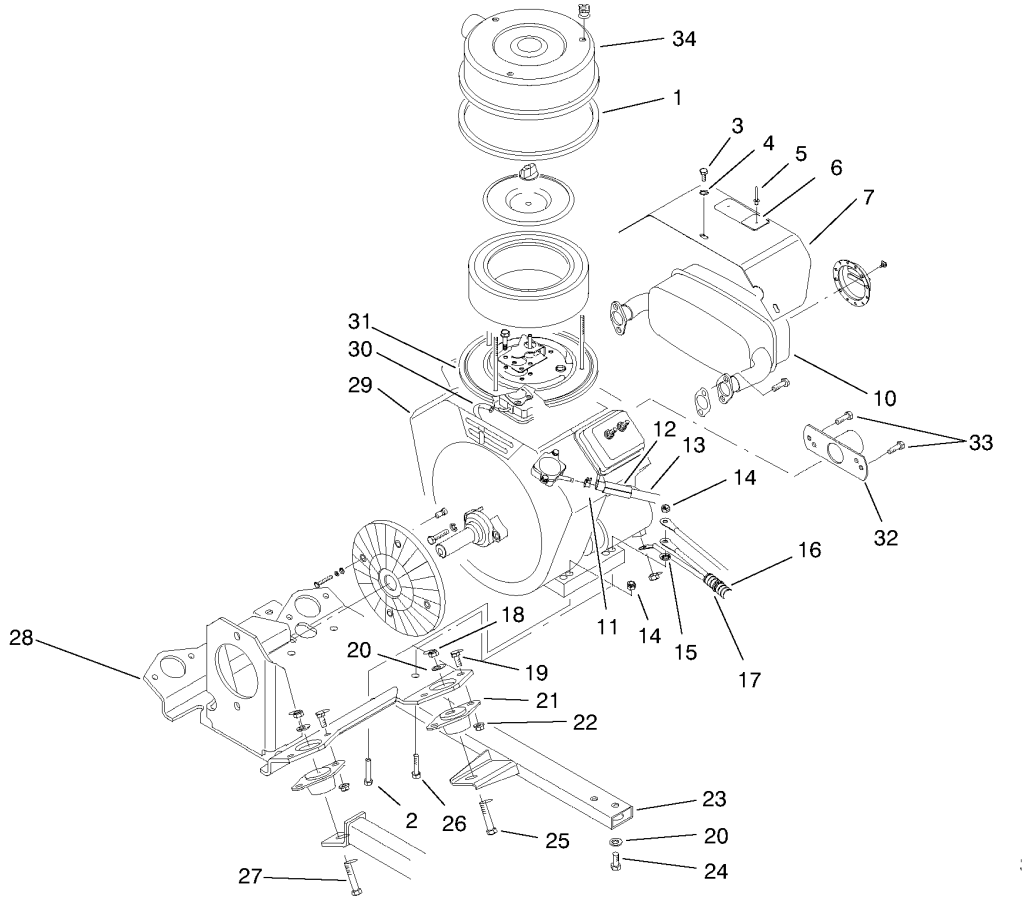
Traction Pedal Assembly

Ref	Part No.	Qty.	Description
1	322-14	1	Screw-HH
3	85-8960	1	Spacer
4	74-9110	1	Pad-Pedal, Reverse
5	92-2343-01	1	Pedal
6	3256-23	1	Washer-Flat
7	3296-29	1	Nut-Lock, NI
8	3272-16	1	Pin-Cotter
9	3256-26	1	Washer-Flat
10	85-8450	1	Rod-Traction
11	3218-5	2	Nut-Jam
12	92-2344	1	Trunnion
14	3256-24	2	Washer-Flat
15	3296-39	1	Nut-Lock, NI
16	74-9100	1	Pad-Pedal, Forward



Pump Control Lever Assembly

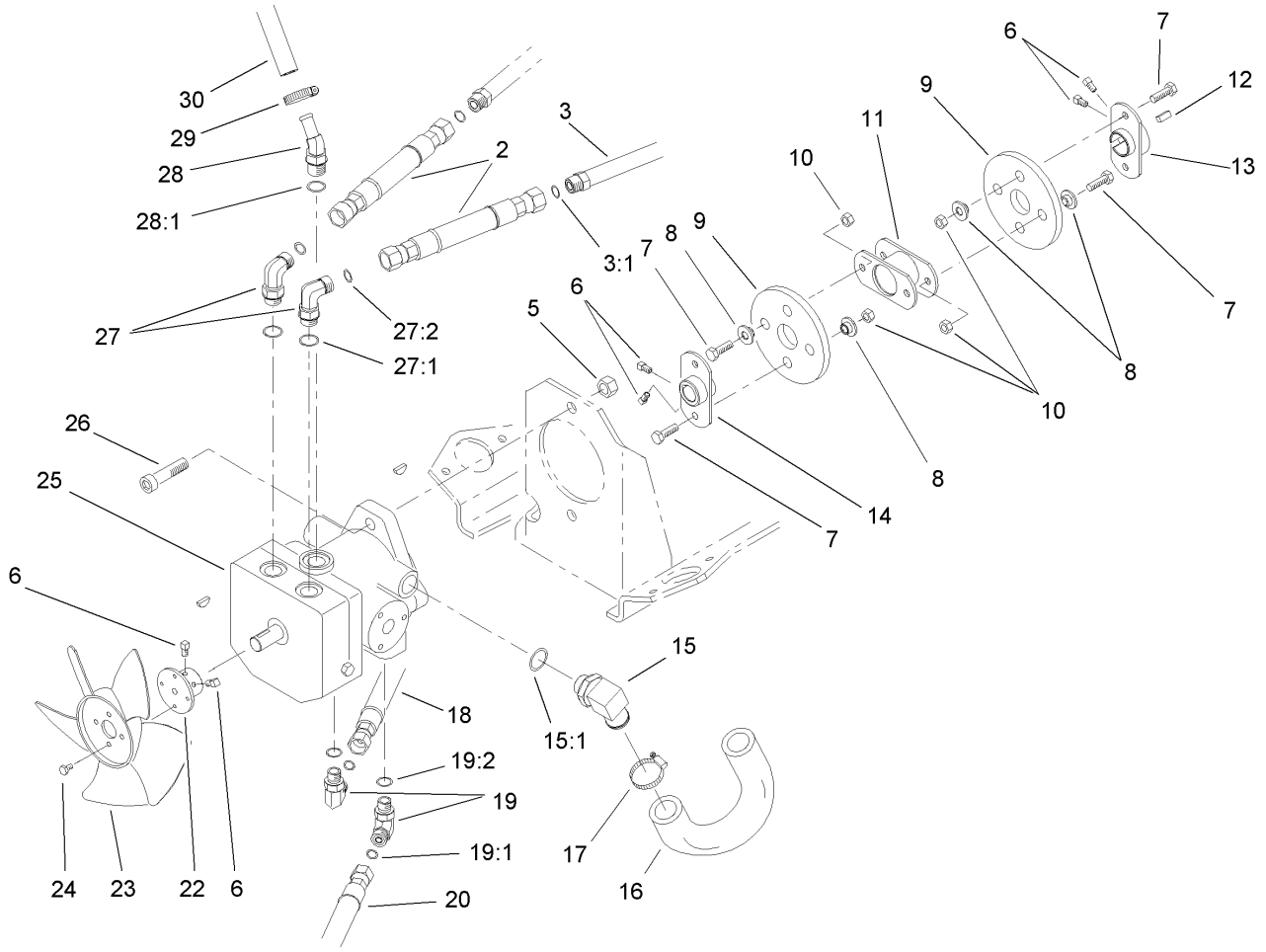
Ref	Part No.	Qty.	Description
1	3296-9	2	Nut-Lock, NI
2	29-6163	1	Switch-Micro
3	85-9150	1	Plate-Switch
4	323-10	1	Screw-HH
5	85-8300-03	1	Lever-Pump
6	32105-21	2	Screw-HH
7	3296-29	2	Nut-Lock, NI
8	49-2040	3	Screw-Tapping
9	93-9051	1	Decal-Bolt, Eccentric
10	95-0553-03	1	Plate-Pump
11	3296-4	1	Nut-Lock, NI
12	18-6380	1	Pin-Adjustment, Steering
13	85-9030	1	Spring-Extension
15	85-8460	1	Switch Arm ASM
15:4:1	256-113	2	Bushing-Flange
15:5	302-60	1	Fitting-Grease
17	3-6498	1	Washer-Thrust
18	76-8640	1	Stud-Traction
19	322-8	1	Screw-HH
20	251-307	2	Bearing-Ball
21	85-9120	1	Spacer-Pivot, Tilt
22	75-5470	1	Spacer-Bearing
23	3296-39	1	Nut-Lock, NI



Engine Installation Assembly

Ref	Part No.	Qty.	Description
1	85-8360	1	Gasket-Ring
2	322-8	2	Screw-HH
3	33113-008	3	Screw-HH
4	3255-7	3	Washer-Lock/ext
5	3269-32	2	Rivet-Pop
6	95-0645	1	Plate-Surface, Hot
7	95-5827-03	1	Shield-Muffler
10	98-0960	1	Muffler-Inlet, Dual
11	2412-98	1	Clamp
12	38-3400	1	Guard-Rubber
13	47-2964	1	Hose-Fuel
14	3296-29	4	Nut-Lock, NI
15	3254-2	1	Washer-Lock, Int
16	94-4519	1	Tube-Convolute
17	3290-378	4	Tie-Cable
18	3296-39	4	Nut-Lock, NI
19	322-4	8	Screw-HH
20	3256-24	8	Washer-Flat
21	83-1031	4	Mount-Engine
22	3296-29	8	Nut-Lock, NI
23	85-8600-01	1	Support-Engine
24	323-5	4	Screw-HH
25	323-10	2	Screw-HH
26	322-10	2	Screw-HH
27	323-11	2	Screw-HH

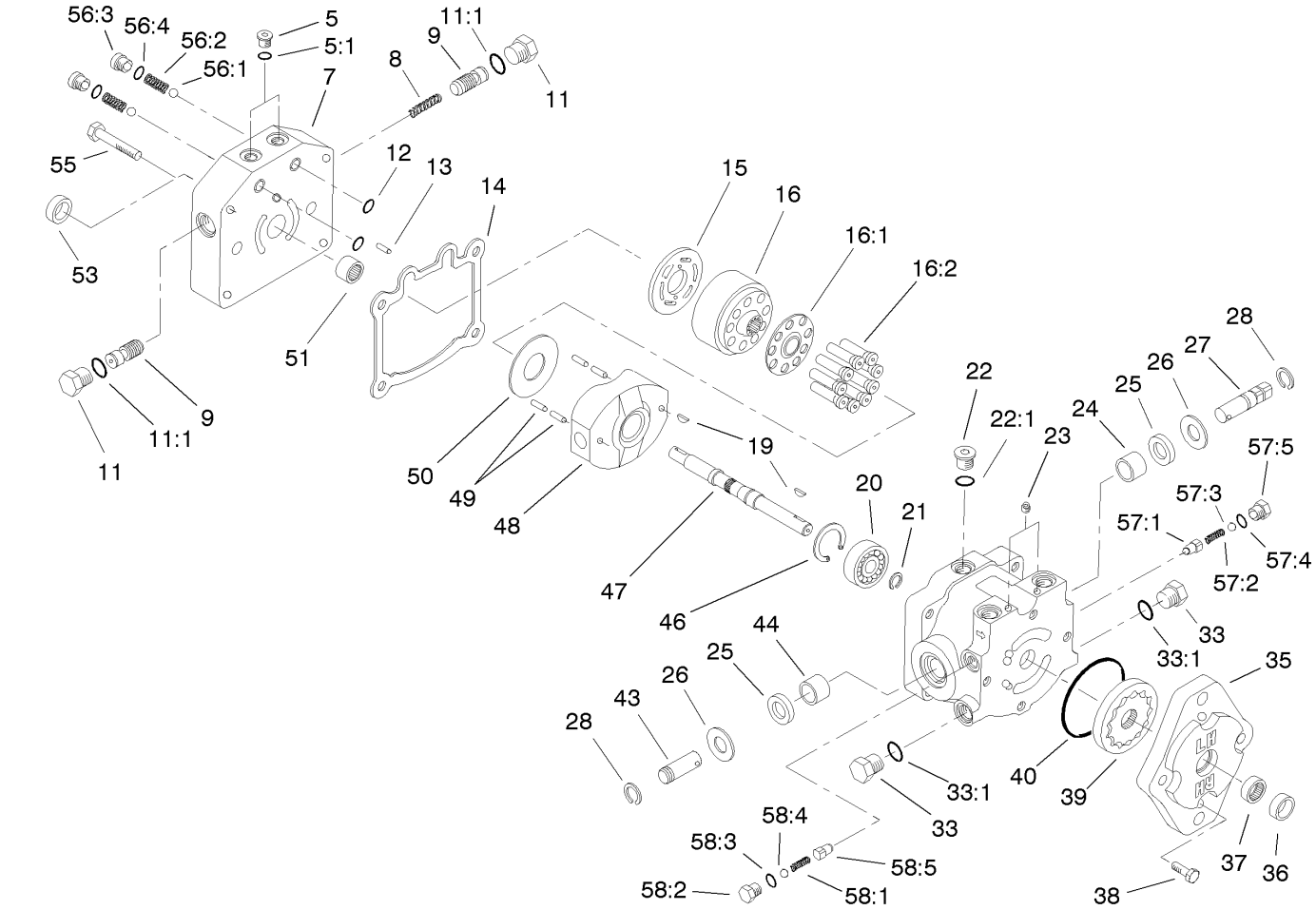
Ref	Part No.	Qty.	Description
28	85-8640-03	1	Base-Engine
29	98-0930	1	Engine-B & S 350447-1116-E1
30	75-4705	1	Hose-Fuel
31	85-8430-03	1	Base-Cleaner, Air
32	95-0632-03	1	Cover ASM
33	3210-2	2	Screw-HH
34	98-0953-03	1	Cover-Cleaner, Air



Hydraulic Pump Installation Assembly

Ref	Part No.	Qty.	Description
2	85-9610	2	Hose-HYD
3	98-0938	1	Pump Reserve Tube ASM
3:1	237-30	1	O-Ring
5	3296-23	2	Nut-Lock, NI
6	3241-5	6	Screw-Set
7	322-4	8	Screw-HH
8	27-6600	8	Spacer-Coupling
9	80-8650	2	Coupling-Drive
10	3296-29	8	Nut-Lock, NI
11	85-8770	1	Coupling
12	85-9020	1	Key-Square
13	85-8730	1	Hub-Engine
14	85-8700	1	Hub-Pump
15	95-0629	1	Fitting-Hose, Push On
15:1	237-80	1	O-Ring
16	98-0969	1	Hose-Inlet, Pump
17	2412-129	1	Clamp-Hose
18	98-0989	1	Hose-HYD
19	340-77	2	Fitting-Hyd, 90 DEG
19:1	237-22	1	O-Ring
19:2	237-42	1	O-Ring
20	85-9590	1	Hose-HYD
22	85-8670	1	Hub-Fan
23	85-9560	1	Fan
24	104-2065	4	Screw-HWH

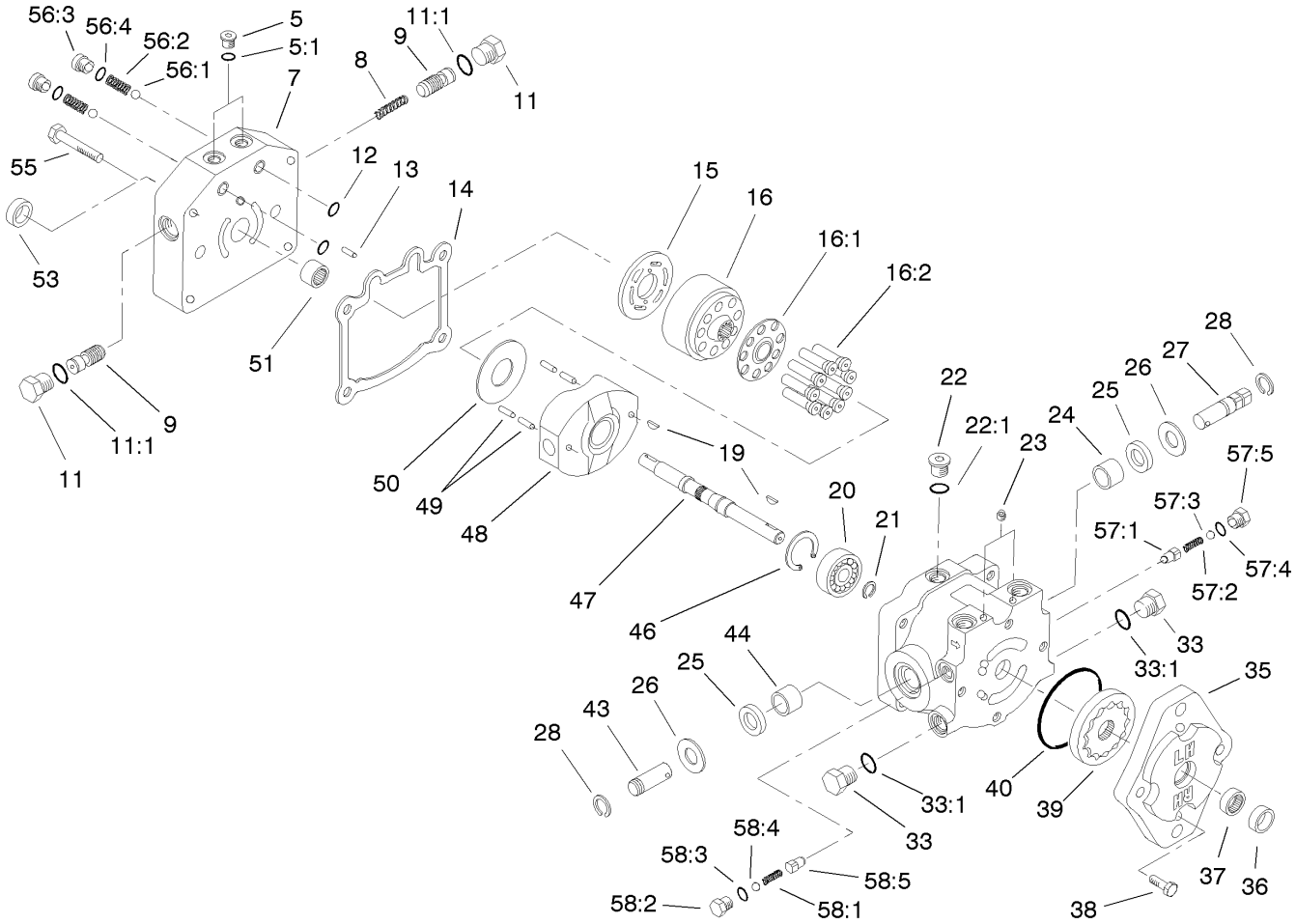
Ref	Part No.	Qty.	Description
25	106-9249	1	Pump-Reversible, Variable
26	3274-5	2	Screw-HSH
27	340-98	2	Fitting-Hyd, 90 DEG
27:1	237-79	1	O-Ring
27:2	237-30	1	O-Ring
28	354-126	1	Fitting-Hyd, 45 DEG
28:1	237-79	1	O-Ring
29	2412-36	1	Clamp-Hose
30	85-9450	1	Hose-Return



Variable Reversible Pump Installation
Assembly No. 106-9249

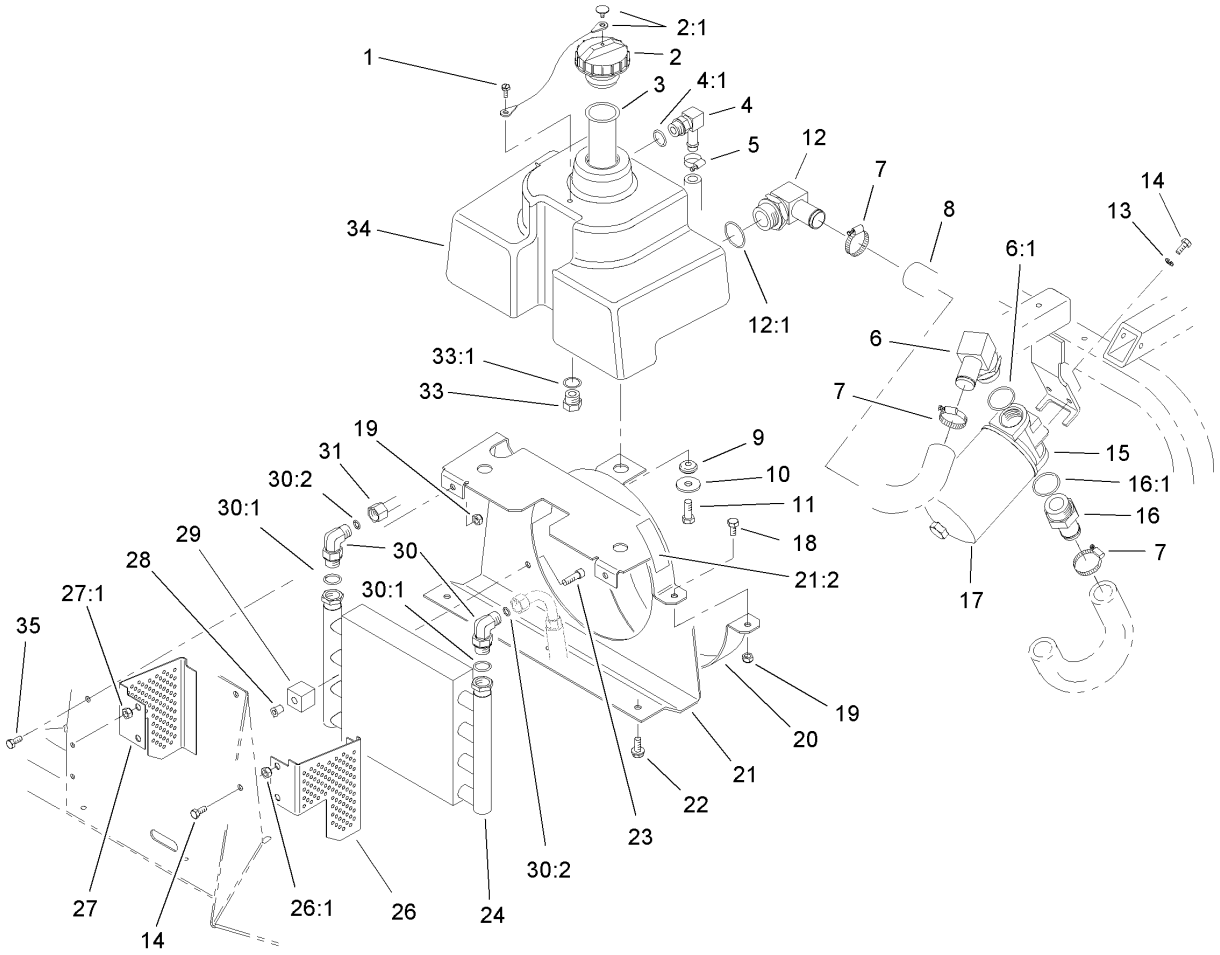
Ref	Part No.	Qty.	Description
5	92-8776	2	Plug
5:1	92-8777	1	O-Ring
7	95-5808	1	Cap-End
8	25-2610	1	Spring-Valve
9	98-0920	2	Valve-Acceleration
11	28-3440	2	Plug-Threaded
11:1	75-0240	1	O-Ring
12	93-4132	2	O-Ring
13	25-2430	1	Pin-Dowel
14	25-2400	1	Gasket
15	88-8160	1	Plate-Valve
16	48-1800	1	Cylinder Block Kit
❷16:1		1	Retainer-Slipper
❷16:2		9	Piston ASM
19	3257-32	2	Key-Woodruff
20	95-5809	1	Bearing-Ball
21	94-3996	1	Ring-Retaining
22	353-988	1	Plug-Hex, Hollow
22:1	237-79	1	O-Ring
23	285-17	2	Plug-Pipe
26	25-2510	2	Washer-Flat
27	25-2500	1	Shaft-Trunnion
28	32151-46	2	Ring-Retaining
33	88-8210	2	Plug
33:1	237-80	1	O-Ring

Ref	Part No.	Qty.	Description
35	25-2690	1	Housing-Pump, Charge
36	67-8060	1	Seal-Lip
37	67-8050	1	Bearing-Needle
38	322-4	4	Screw-HH
39	95-5812	1	Gerotor ASM
40	237-95	1	O-Ring
43	88-8180	1	Shaft-Trunnion
45	88-8170	1	Housing Kit
45:1	88-8190	1	Bearing-Journal
45:2	25-3210	2	Seal-Lip
45:3	252-82	1	Bearing-Needle
46	32120-11	1	Ring-Retaining
47	95-5810	1	Shaft
48	25-2450	1	Plate-Swash, Variable
49	32121-91	4	Pin-Spring, Coil
50	25-2380	1	Plate-Thrust
51	46-8400	1	Bearing-Shaft
53	88-8230	1	Seal-Lip
❷54		1	Washer
55	323-45	4	Screw-HH
❶56	99-5689	1	Check Valve ASM
56:1	25-2490	1	Ball
56:2	25-2640	1	Spring-Valve
56:3	25-2650	1	Plug-Valve, Check
56:4	237-86	1	O-Ring



Variable Reversible Pump Installation
Assembly No. 106-9249 (continued)

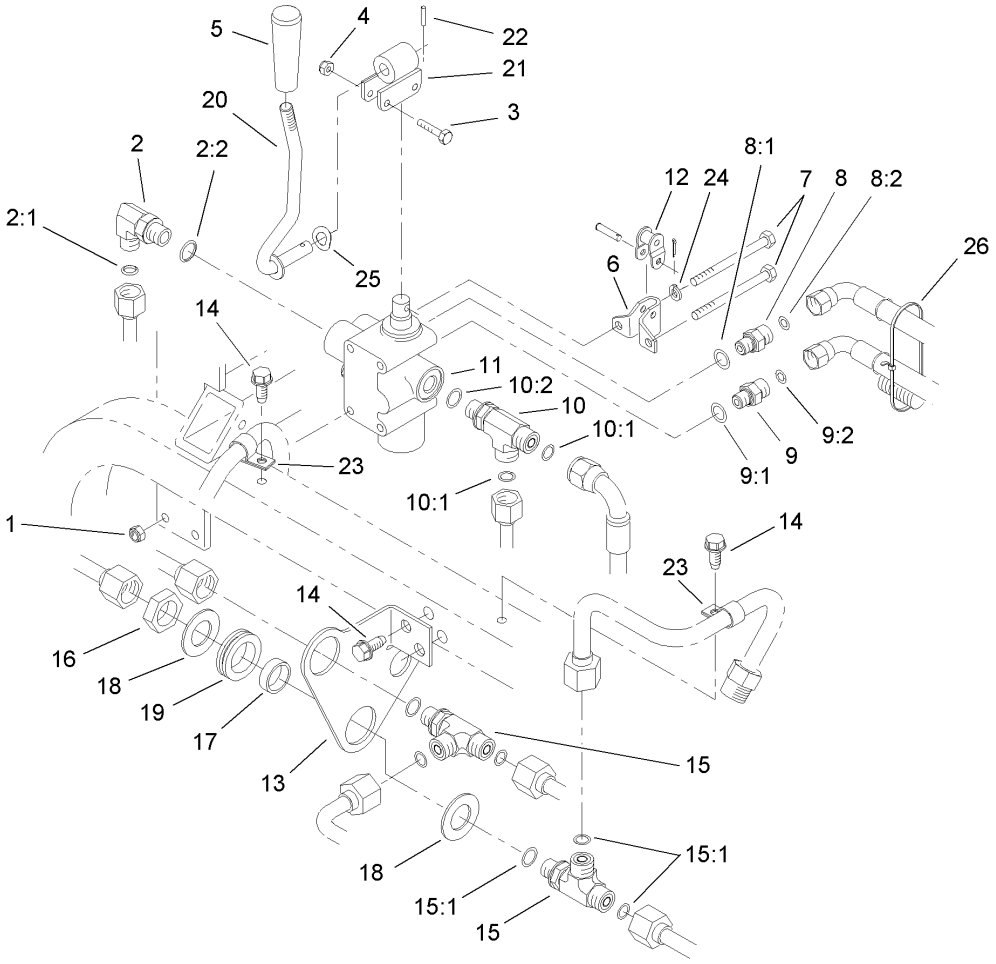
Ref	Part No.	Qty.	Description
❶57	49-8520	1	Implement Relief Kit
57:1	83-7260	1	Cone-Relief, Charge
57:2	25-2570	1	Spring-Valve
57:3	25-2470	1	Pack-Shim
57:4	237-86	1	O-Ring
57:5	25-2460	1	Plug-HH
❶58	49-8510	1	Valve Kit
58:1	25-2480	1	Spring-Valve
58:2	25-2460	1	Plug-HH
58:3	237-86	1	O-Ring
58:4	25-2470	1	Pack-Shim
58:5	83-7260	1	Cone-Relief, Charge



Hydraulic Reservoir Assembly

Ref	Part No.	Qty.	Description
1	57-5420	1	Screw-Shoulder
2	93-4365	1	Cap-Oil
2:1	75-0540	1	Tether And Button Kit
3	85-9510	1	Filler-Screen
4	354-120	1	Fitting-Hyd, 90 DEG
4:1	237-79	1	O-Ring
5	2412-36	1	Clamp-Hose
6	353-987	1	Fitting-Hyd, 90 DEG
6:1	237-81	1	O-Ring
7	2412-129	3	Clamp-Hose
8	98-0970	1	Hose-Filter, Inlet
9	240-11	3	Grommet-Mount, Tank
10	63-8410	3	Washer
11	323-5	3	Screw-HH
12	98-0971	1	Fitting-Hyd, 90 DEG
12:1	237-117	1	O-Ring
13	3253-3	2	Washer-Lock
14	321-4	6	Screw-HH
15	68-8990	1	Filter Head ASM
16	354-73	1	Fitting
16:1	237-81	1	O-Ring
17	23-9740	1	Filter-Oil
18	322-2	2	Screw-HH
19	3296-29	4	Nut-Lock, NI
20	85-8570-03	1	Shroud-Upper

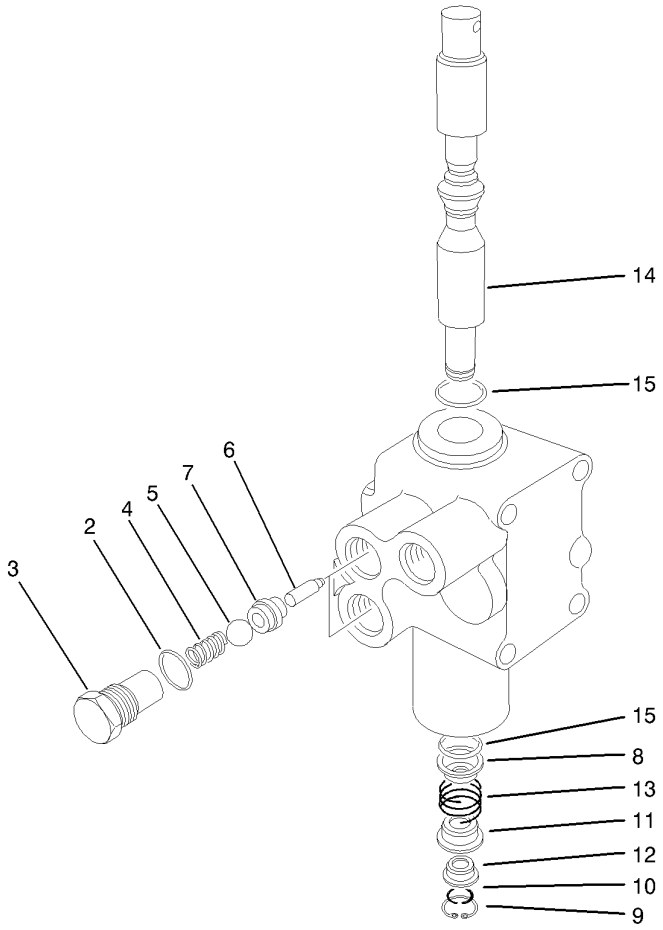
Ref	Part No.	Qty.	Description
21	98-8151	1	Cooler Mount ASM
21:2	93-7272	2	Decal-Warning
22	32144-11	3	Screw-TAP
23	3274-86	2	Screw-HSH
24	85-9460	1	Cooler-Oil
26	88-8120	1	Screen-Cooler, LH
26:1	32148-6	2	Insert-Nut
27	88-8110	1	Screen-Cooler, RH
27:1	32148-6	2	Insert-Nut
28	85-9670	2	Nut
29	85-9550	2	Clamp-Rubber
30	340-18	2	Fitting-Hyd, 90 DEG
30:1	237-79	1	O-Ring
30:2	237-22	1	O-Ring
31	98-0987	1	Tube
33	353-550	1	Plug-HYD
33:1	237-79	1	O-Ring
34	92-8959	1	Tank-HYD
35	322-3	2	Screw-HH



Hydraulic Plumbing Assembly

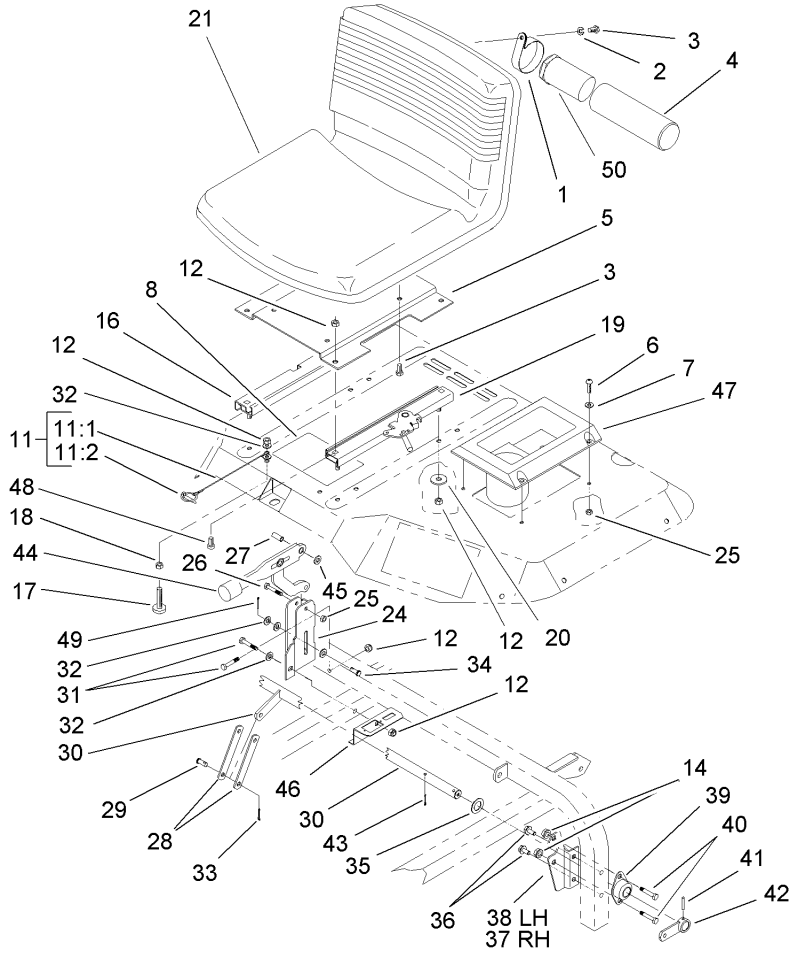
Ref	Part No.	Qty.	Description
1	3296-8	2	Nut-Lock, NI
2	340-77	1	Fitting-Hyd, 90 DEG
2:1	237-22	1	O-Ring
2:2	237-42	1	O-Ring
3	3290-360	2	Screw-HH
4	3296-2	2	Nut-Lock
5	233-39	1	Knob-Control
6	88-8480	1	Bracket-Pivot
7	321-23	4	Screw-HH
8	85-9720	1	Fitting-Orificed
8:1	237-78	1	O-Ring
8:2	237-21	1	O-Ring
9	340-92	1	Fitting-Hyd, Straight
9:1	237-78	1	O-Ring
9:2	237-21	1	O-Ring
10	340-86	1	Fitting-Hyd, Tee
10:1	237-22	2	O-Ring
10:2	237-42	1	O-Ring
11	43-1710-01	1	Valve ASM
12	2710-20	1	Link-Offset
13	98-0963-01	1	Bracket-Bulkhead
14	32144-11	4	Screw-TAP
15	340-121	2	Fitting-Tee, HYD
15:1	237-30	3	O-Ring
16	340-127	2	Nut-Bulkhead

Ref	Part No.	Qty.	Description
17	69-8960	2	Spacer
18	69-8930	4	Washer
19	240-5	2	Grommet
20	99-1632	1	Lift Lever ASM
21	98-8159	1	Pivot
22	32121-73	1	Pin-Roll
23	2412-138	2	R-Clamp
24	3253-3	2	Washer-Lock
25	3290-477	1	Washer-Curved
26	3290-378	1	Tie-Cable



Valve Assembly No. 43-1710-01

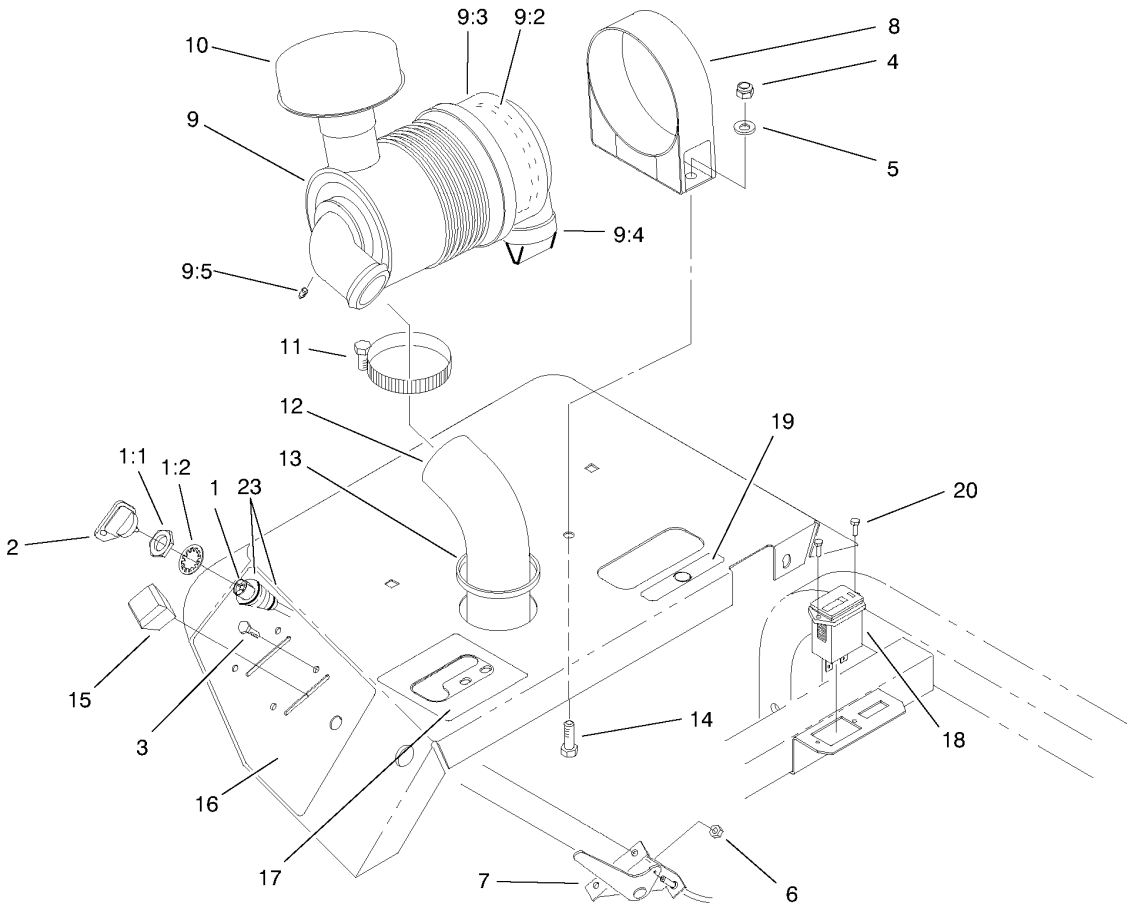
Ref	Part No.	Qty.	Description
2	237-42	2	O-Ring
3	22-8330	2	Plug
4	22-8340	2	Spring
5	22-8350	2	Ball
6	22-8360	2	Pin
7	22-8370	2	Seat-Valve
8	22-8380	1	Retainer
9	22-8490	1	Ring-Snap
10	22-8480	1	Ring-Snap
11	22-8390	1	Retainer
12	22-8400	1	Spacer
13	22-8410	1	Spring
14	22-8420	1	Spool
15	22-8500	2	O-Ring



Seat and Brake Assembly

Ref	Part No.	Qty.	Description
1	2412-133	2	R-Clamp
2	3253-4	2	Washer-Lock
3	322-2	6	Screw-HH
4	104-7050	1	Housing-Manual
5	85-9660-03	1	Plate-Adjustment, Seat
6	3258-166	4	Screw
7	3256-1	4	Washer-Flat
8	98-0977	1	Decal-Service
11	98-0979	1	Lynch Pin ASM
11:1	28-8070	1	Lanyard
11:2	3290-495	1	Pin-Klik
12	3296-29	12	Nut-Lock, NI
14	3296-39	4	Nut-Lock, NI
16	51-0780	1	Slider-Seat
17	32141-36	2	Screw-Adjustment, Level
18	3218-2	2	Nut-Jam
19	51-0790	1	Adjuster-Seat, LH
20	63-8410	4	Washer
21	92-8976	1	Seat
24	95-5823	1	Bracket-Lever
25	3296-42	5	Nut-Lock, NI
26	321-9	1	Screw-HH
27	87-4710	1	Spacer-Brake, Parking
28	95-5844	2	Strap
29	283-62	1	Pin-Clevis

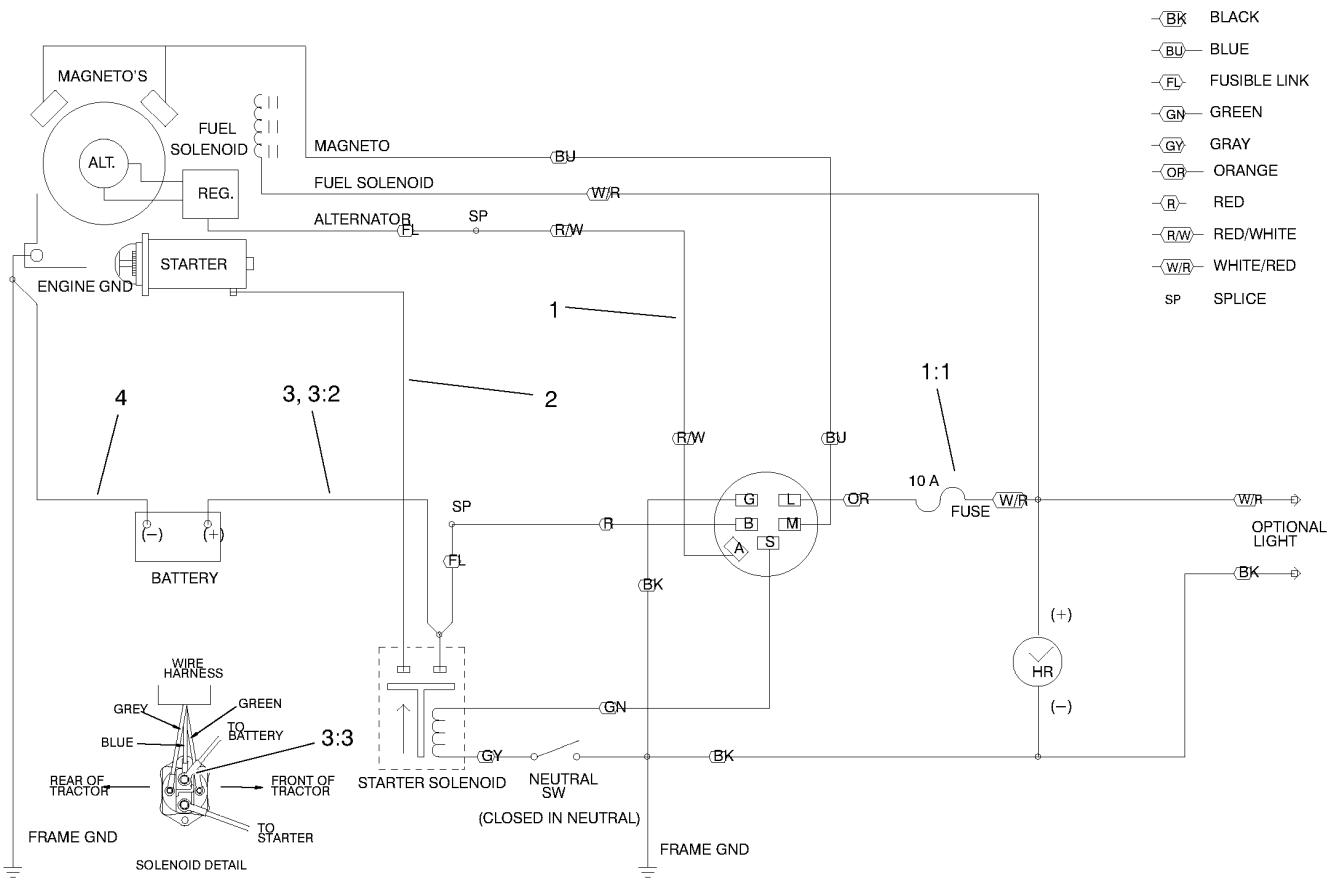
Ref	Part No.	Qty.	Description
30	95-5848	1	Rod-Traverse
31	322-11	2	Screw-HH
32	3256-23	6	Washer-Flat
33	3272-10	1	Pin-Cotter
34	94-3829	1	Pin-Clevis
35	67-9410	2	Washer
36	32144-14	4	Screw-HWH
❶37	98-0901	1	Bracket-Bearing, RH
38	98-0900	1	Bracket-Bearing, LH
39	27-2320	2	Bearing
40	3234-1	4	Screw-HHF
41	32121-6	2	Pin-Roll
42	83-9310	2	RH Brake Lever ASM
43	3272-12	2	Pin-Cotter
44	87-2710	1	Lever-Brake
45	3290-477	1	Washer-Curved
46	98-0922	1	Bracket-Hourmeter
47	69-7040	1	Holder-Cup
48	3274-12	4	Screw-HSH
49	3272-6	1	Pin-Cotter
50	104-7048	1	Cap-Housing



Air Cleaner and Control Panel Assembly

Ref	Part No.	Qty.	Description
1	83-0020	1	Switch-Starter
1:1	218-461	1	Nut-HH
1:2	3254-5	1	Washer-Tooth
2	63-8360	2	Key-Ignition
3	32105-13	4	Screw-SHH
4	3296-29	2	Nut-Lock, NI
5	3256-23	2	Washer-Flat
6	3296-2	4	Nut-Lock
7	98-0991	2	Control-Choke And Throttle
8	95-5806	1	Bracket-Mounting
9	93-2190	1	Air Cleaner ASM
9:2	93-2195	1	Filter
9:3	94-3652	1	Cover ASM
9:4	94-1414	1	Valve-Vacuator
9:5	285-17	1	Plug-Pipe
10	46-7510	1	Hood-Inlet, Air
11	2412-130	2	Clamp-Hose
12	92-8977	1	Hose-Cleaner, Air
13	237-164	1	Grommet
14	322-5	2	Screw-HH
15	66-0120	2	Knob
16	98-0975	1	Decal-Panel, Control
17	98-0984	1	Decal-Lift
18	75-6820	1	Hourmeter
19	93-7442	1	Decal-Lever, Parking

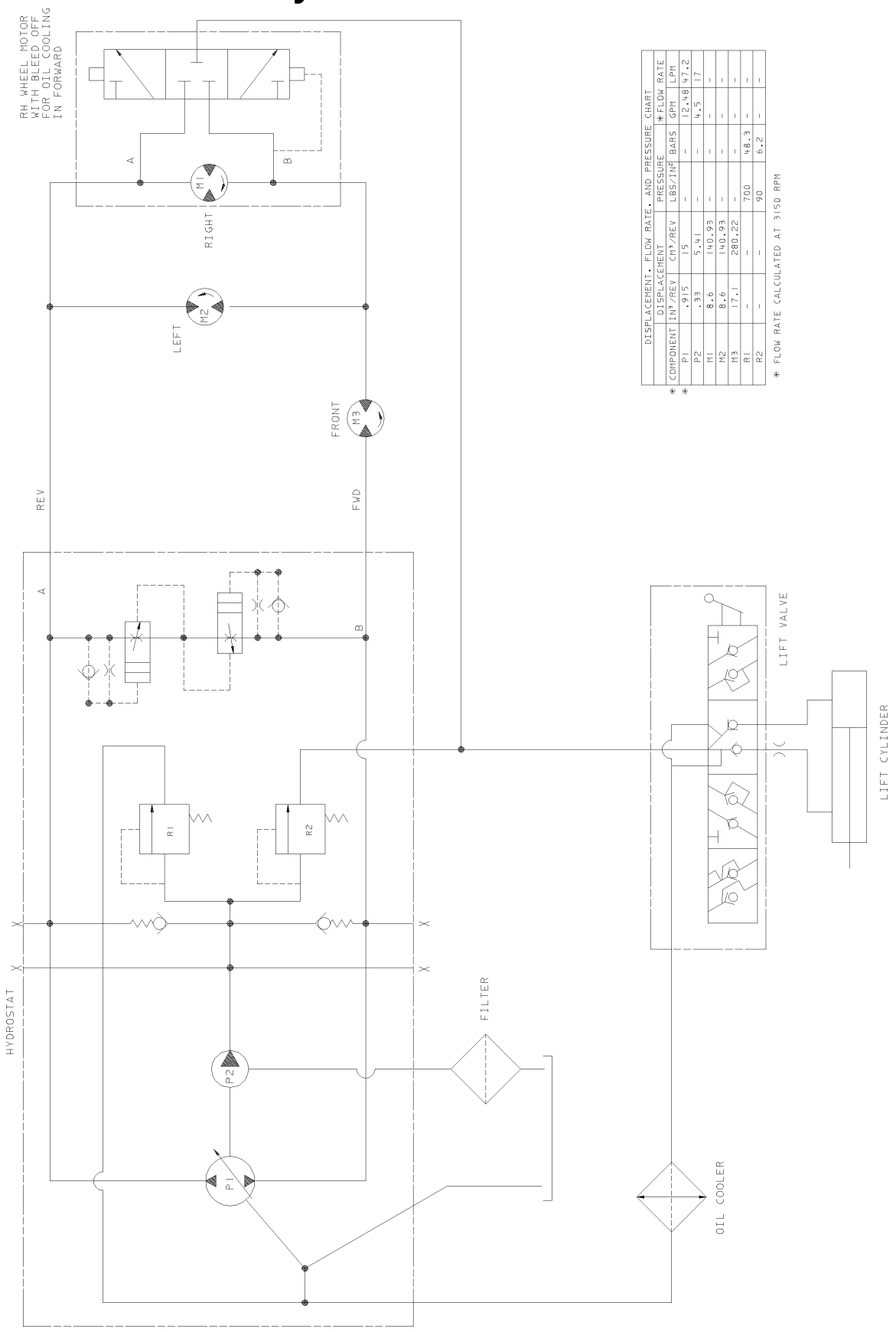
Ref	Part No.	Qty.	Description
20	32144-18	2	Screw-HH
23	3290-378	2	Tie-Cable



Electrical Schematic

Ref	Part No.	Qty.	Description
1	98-0994	1	Harness-Wire
1:1	218-578	1	Fuse-10 Amp
❶1:6	93-5961	1	Boot-Lever
2	80-2110	1	Wire ASM
3	83-2420	1	Positive Cable ASM
3:2	28-8080	1	Boot-Terminal
3:3	83-2430	1	Boot-Terminal
4	88-8330	1	Engine Ground Wire ASM

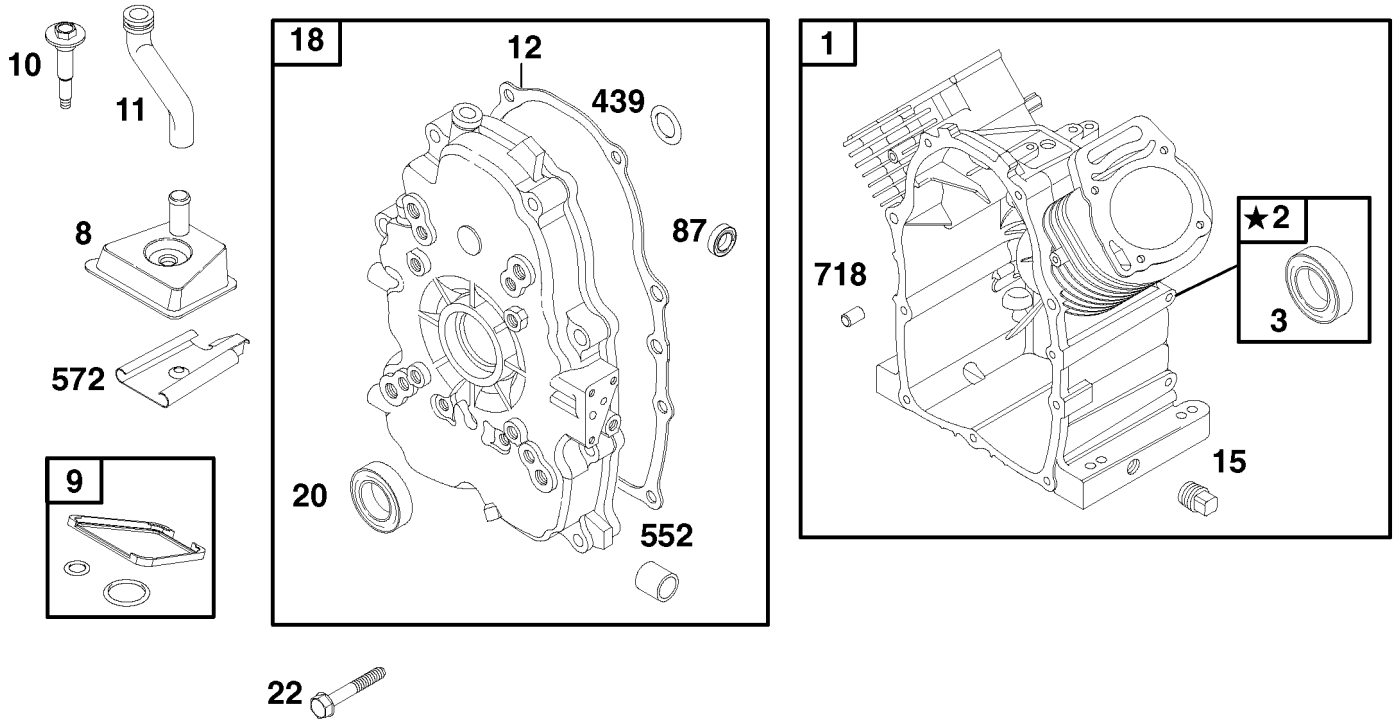
Hydraulic Schematic



DISPLACEMENT, FLOW RATE, AND PRESSURE CHART

	COMPONENT	DISPLACEMENT IN³/REV	DISPLACEMENT CM³/REV	PRESSURE LBS/IN²	PRESSURE BARS	*FLOW RATE GPM	*FLOW RATE LPM
* *	P1	.915	15	–	–	12.48	47.2
	P2	.33	5.41	–	–	4.5	17
	M1	8.6	140.93	–	–	–	–
	M2	8.6	140.93	–	–	–	–
	M3	17.1	280.22	–	–	–	–
	R1	–	–	700	48.3	–	–
	R2	–	–	90	6.2	–	–

* FLOW RATE CALCULATED AT 3150 RPM



1019 LABEL KIT

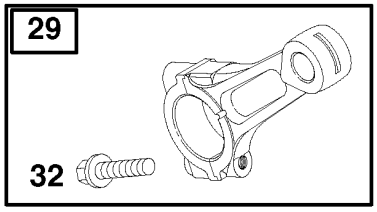
1058 OWNER'S MANUAL

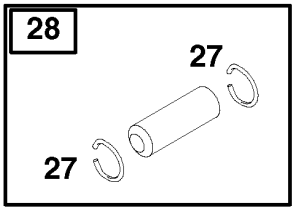
★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

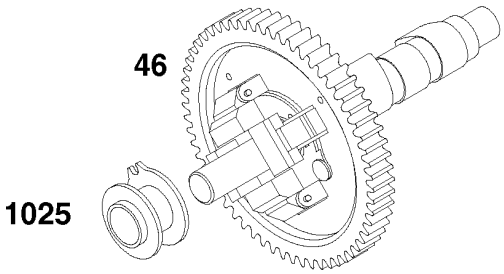
Assemblies include all parts shown in frames.

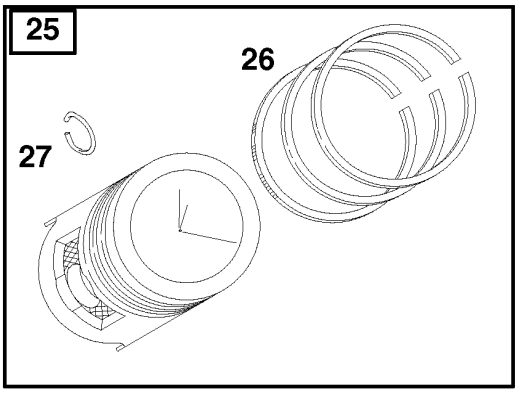
Cylinder Assembly
Briggs and Stratton 350447-1116-E1

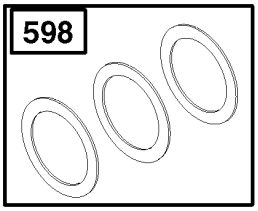
Ref	Part No.	Qty.	Description
1	808441	1	Cylinder Assembly
2	808534	1	Bushing
❹3	805101	1	Seal-Oil
8	807795	1	Breather Assembly
❹9	807688	1	Gasket-Breather
10	805751	1	Screw
11	806083	1	Breather Tube
❹12	806190	1	Gasket-Crankcase
15	94239	1	Plug-Pipe
18	808502	1	Cover-Crankcase
❹20	805049	1	Seal-Oil
22	805696	1	Screw-Hex.
87	805054	1	Seal-Governor Shaft
❹439	806191	1	Seal-O-Ring
552	805412	1	Bushing-Govemor Shaft
572	805197	1	Baffle-Oil
718	805103	1	Pin-Dowel
1019	808036	1	Kit-Label
1058	273685	1	Owner-S Manual

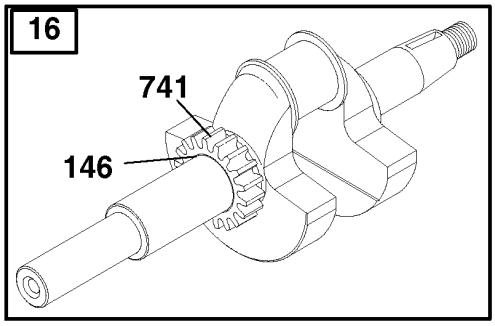








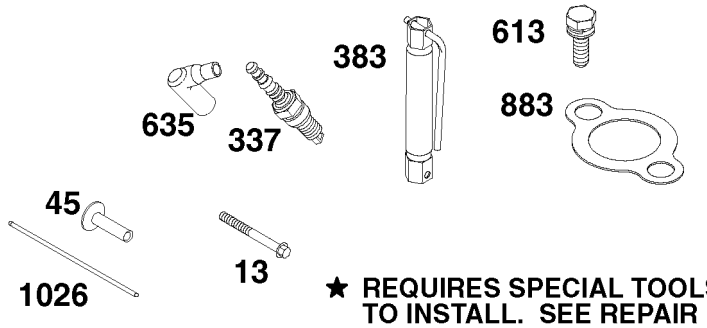




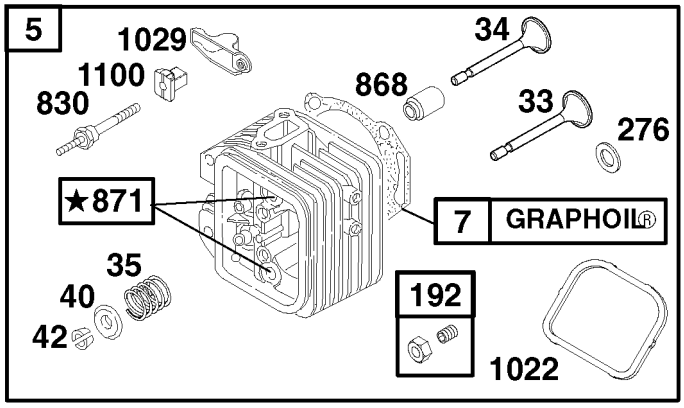
Assemblies include all parts shown in frames.

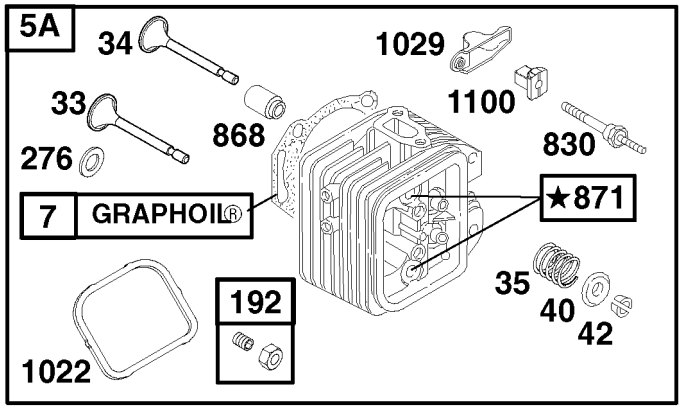
Piston and Crankshaft Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
16	692089	1	Crankshaft
17	805754	1	Ball Bearing
25	808326	1	Piston Assembly (standard)
25	808336	1	Piston Assembly (.010 O.s.)
25	808337	1	Piston Assembly (.020 O.s.)
25	808338	1	Piston Assembly (.030 O.s.)
26	807889	1	Ring Set (standard)
26	807994	1	Ring Set (.010 O.s.)
26	807995	1	Ring Set (.020 O.s.)
26	807996	1	Ring Set (.030 O.s.)
27	805099	1	Lock-Piston Pin
28	807886	1	Pin-Piston
29	807900	1	Rod-Connecting
29	807803	1	Pin-Piston (.020" U.s.)
32	805395	1	Screw-Hex.
46	691537	1	Camshaft
146	94196	1	Key-Timing
377	808095	1	Key-Timing
598	807625	1	Washer Set
741	805984	1	Gear-Timing
1025	805313	1	Slider-Govemor



★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

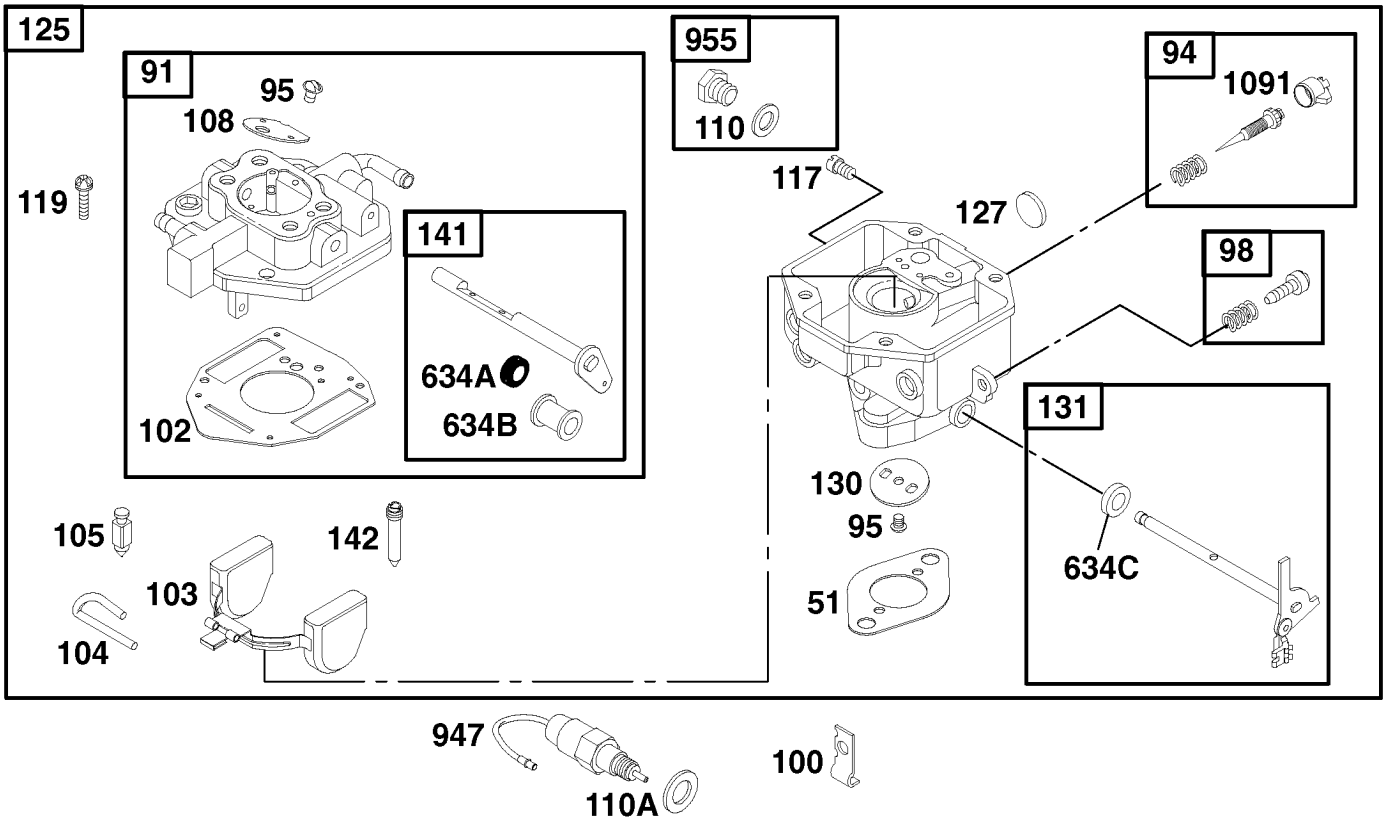




Assemblies include all parts shown in frames.

Crankcase Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
5	808383	1	Cylinder Head (no. 1)
5A	808384	1	Cylinder Head (no. 2)
❹❺7	806086	1	Gasket-Cylinder Head
13	805097	1	Screw-HH
33	807681	1	Valve-Exhaust
34	807680	1	Valve-Intake
35	805937	1	Spring-Valve
40	805092	1	Retainer-Valve
42	807683	1	Keeper-Valve
45	262679	1	Tappet-Valve
192	807623	1	Screw
❹❺276	805420	1	Washer
337	496018	1	Sparkplug
383	19374	1	Wrench-Sparkplug
613	805158	1	Screw
635	805529	1	Boot-Spark Plug
830	806037	1	Stud-Rocker Arm
868	805094	1	Seal-Valve
871	805084	1	Guide-Valve
883	805024	1	Gasket-Exhaust
❹❺1022	806039	1	Gasket-Valve Cover
1026	805352	1	Rod-Push
1026	805617	1	Rod-Push (aluminum-Exhaust)
1029	806036	1	Arm-Rocker
1100	806038	1	Pivot-Rocker Arm

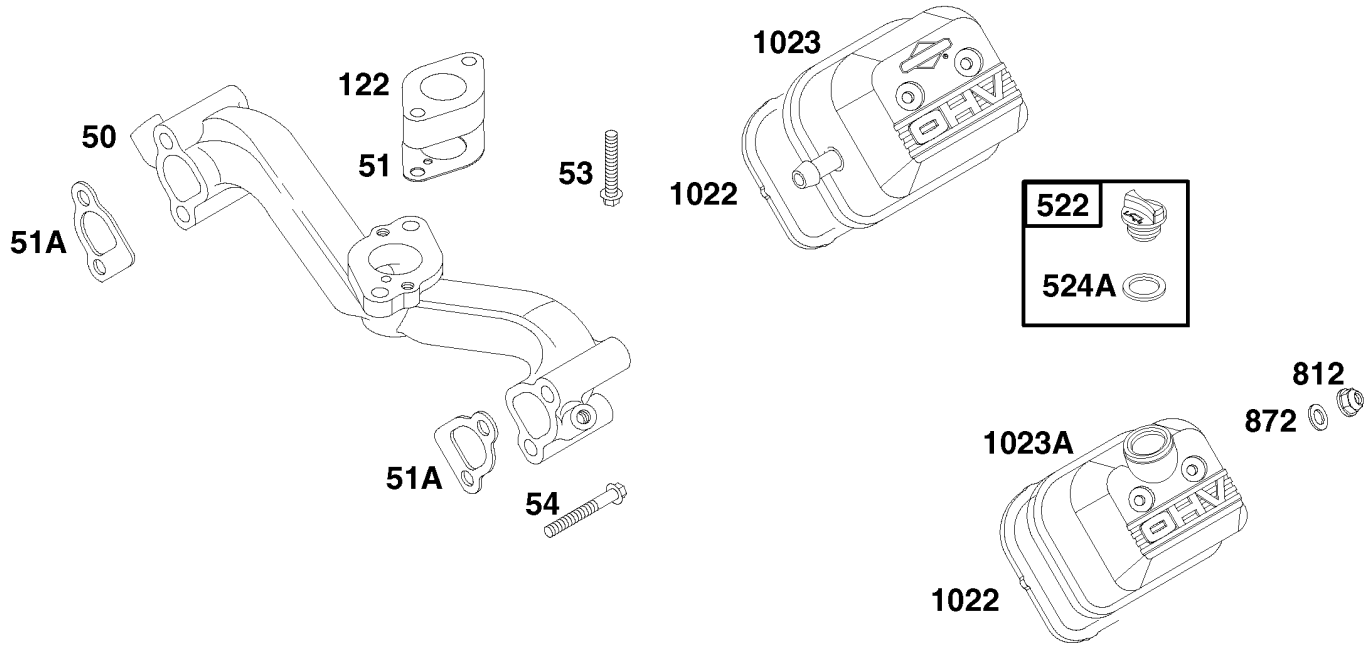


Assemblies include all parts shown in frames.

Carburetor Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
❹51	805700	1	Gasket-Intake
91	808396	1	Body Assembly-Upper
❸94	808399	1	Idle Mixture Kit
❸95	805538	1	Screw
98	808177	1	Screw
100	806283	1	Stop-Throttle
❸102	805541	1	Gasket-Intake Elbow
103	805546	1	Fioatassembly
❸104	805545	1	Float Hinge Pin
❸105	805547	1	Valve-Needle
108	806134	1	Choke Valve
❸110	805549	1	Washer-Seal
❸110A	806137	1	Washer
❸117	806126	1	Jet-Main
117	808413	1	Jet-Main (high Altitude)
119	805540	1	Screw
125	808370	1	Carburetor Assembly
❸127	805559	1	Plug-Welch
130	806132	1	Throttle Valve
131	808397	1	Shaft-Throttle
141	808398	1	Shaft-Choke
❸142	806128	1	Carburetor Nozzle
❸634A	805544	1	Seal-Shaft
❸634B	805543	1	Collar-Choke

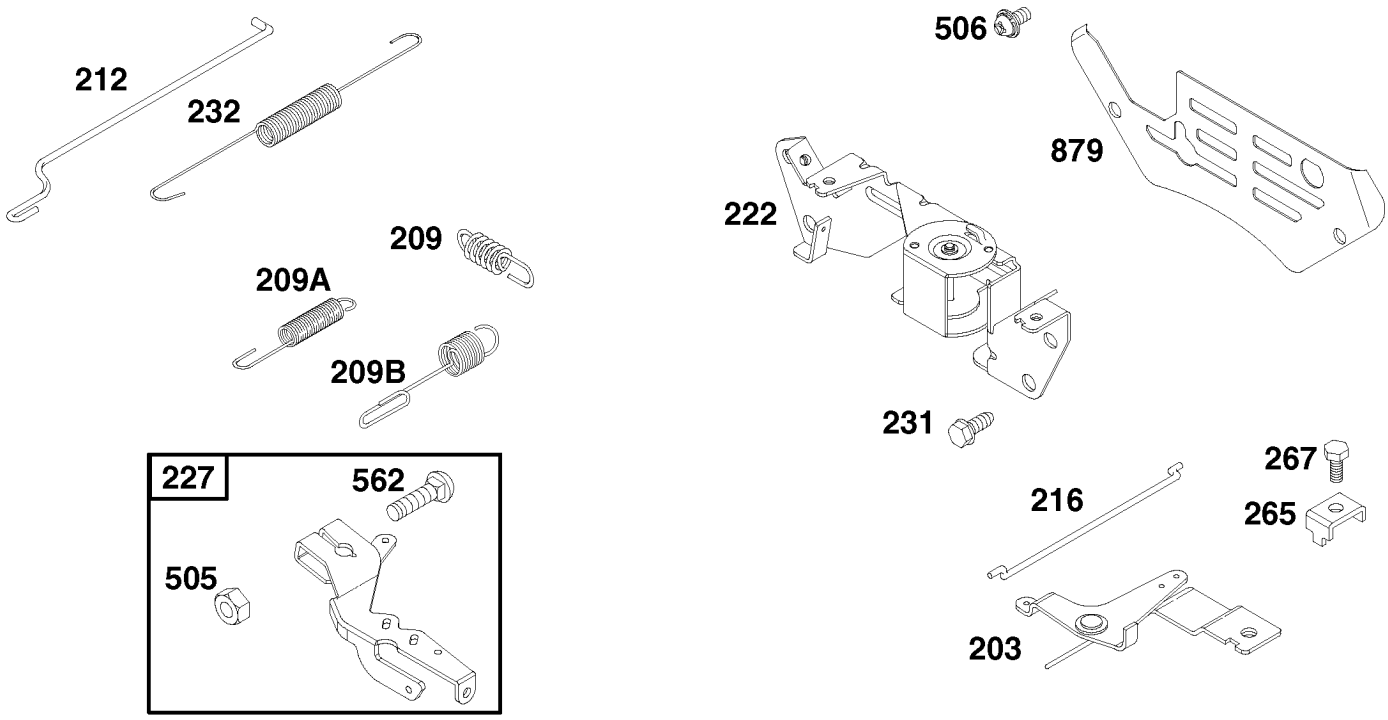
Ref	Part No.	Qty.	Description
❸634C	806131	1	Seal-Shaft
947	807664	1	Solenoid
955	807723	1	Carburetor Plug
❸1091	805862	1	Cap-Limiter



Assemblies include all parts shown in frames.

Valve Cover and Exhaust Manifold Assembly
Briggs and Stratton 350447-1116-E1

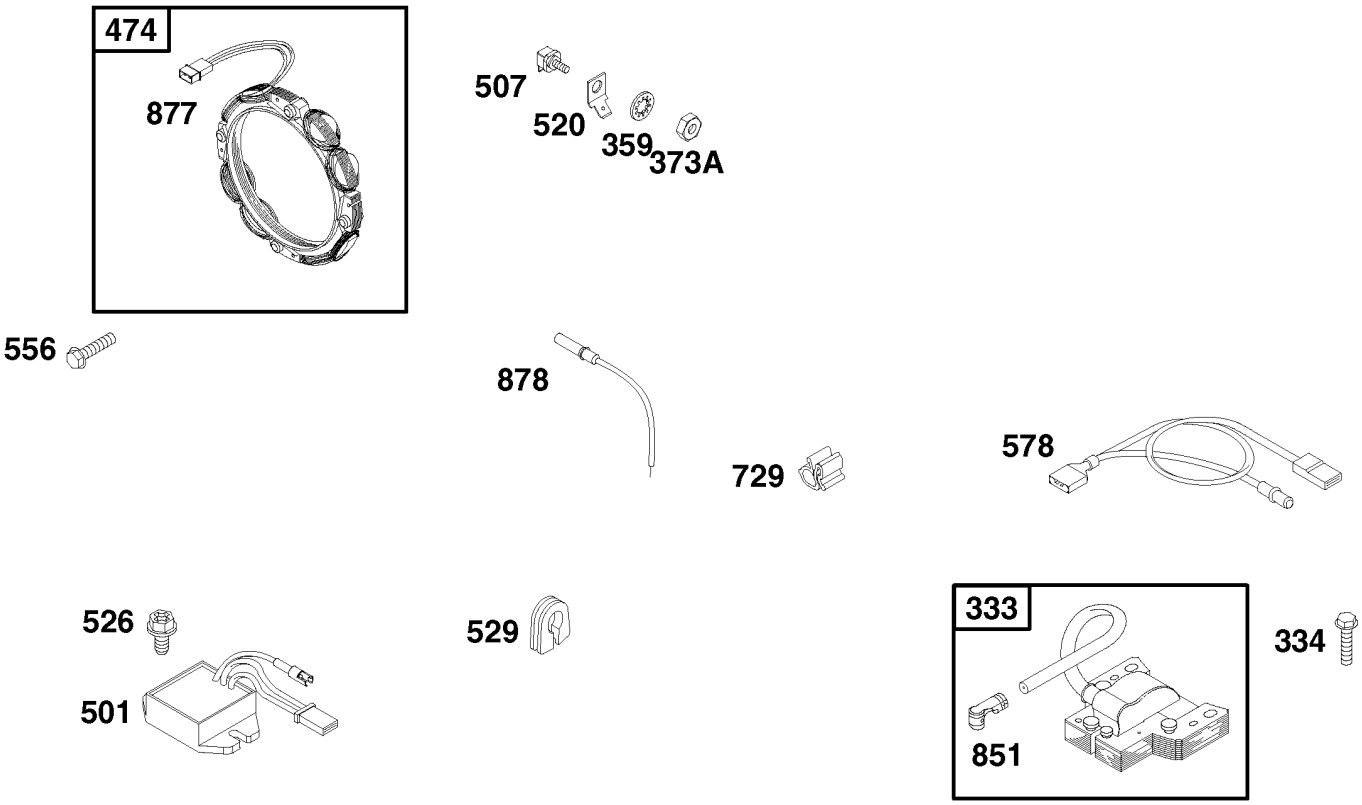
Ref	Part No.	Qty.	Description
50	805772	1	Manifold-Intake
❹51	805700	1	Gasket-Intake
❹❺51A	805023	1	Gasket-Intake
53	805466	1	Saew
54	805006	1	Screw
122	805673	1	Spacer-Carburetor
❹❺872	805420	1	Washer
522	491832	1	Plug-Oil Filler
524A	271983	1	Seal-Filler Plug
❺812	805019	1	Nut-Lock
❹❺1022	806039	1	Gasket-Valve Cover
1023	805100	1	Cover-Valve
1023A	808032	1	Cover-Valve



Assemblies include all parts shown in frames.

Governor Assembly
Briggs and Stratton 350447-1116-E1

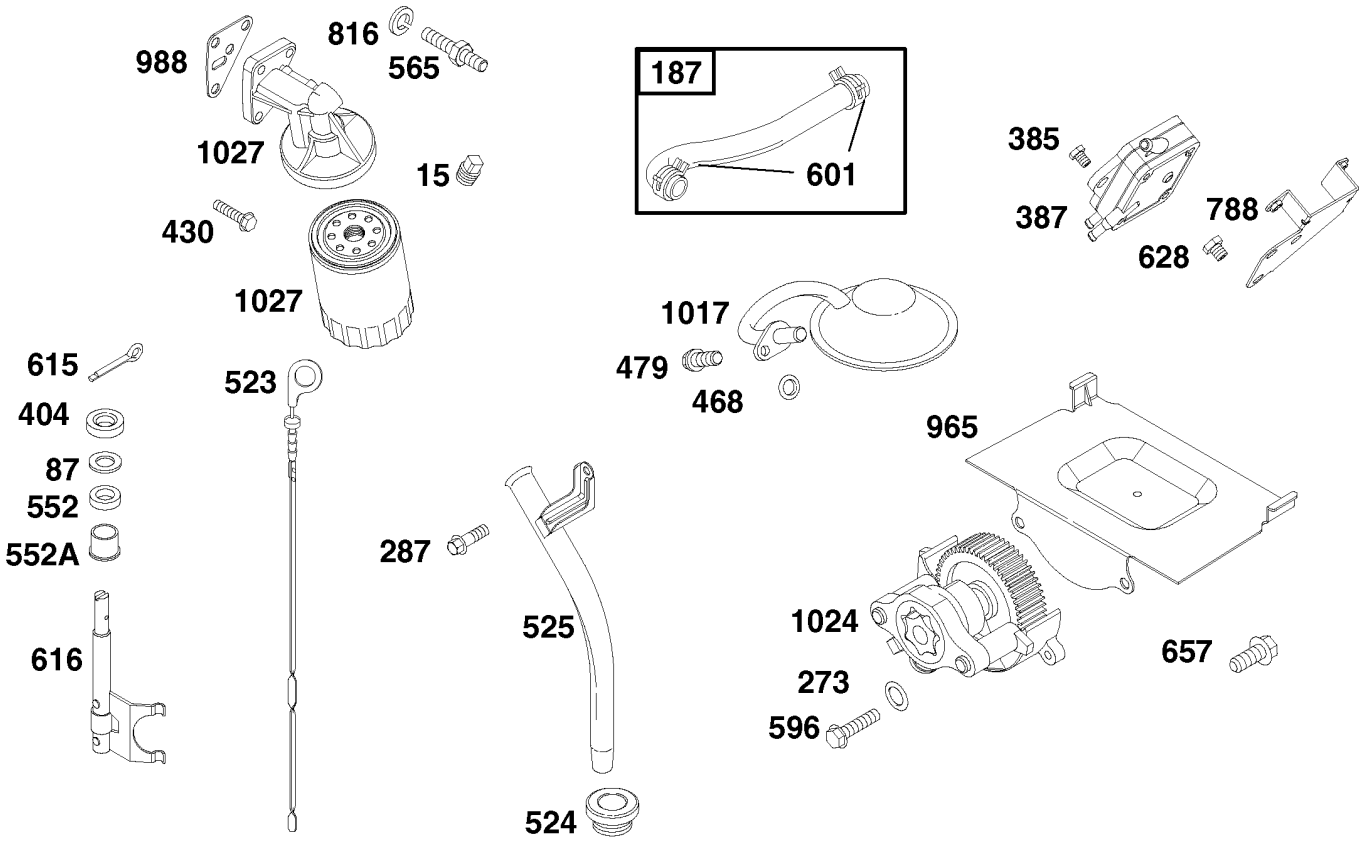
Ref	Part No.	Qty.	Description
203	807609	1	Control-Choke
209	805463	1	Governor Spring
209A	805450	1	Spring-Governor
209B	806060	1	Spring-Governor (idle)
212	805480	1	Link
216	805439	1	Link
222	808195	1	Bracket-Control
227	807528	1	Lever-Governor
232	805465	1	Spring-Link
265	221535	1	Clamp-Casing
267	805762	1	Screw-HH
321	805025	1	Screw
505	805383	1	Nut
506	805009	1	Screw
562	805381	1	Bolt
879	805841	1	Cover-Carburetor



Assemblies include all parts shown in frames.

Ignition Component Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
333	492341	1	Armature-Magneto
334	805407	1	Screw-HH
359	92791	1	Washer-Lock
373A	90576	1	Nut
556	805407	1	Screw-HH
474	393295	1	Alternator
501	394890	1	Regulator
507	398525	1	Insulator
520	93722	1	Terminal
526	805448	1	Screw
529	805641	1	Grommet
578	493792	1	Wire-Stop
729	280470	1	Clip-Wire
851	493880	1	Terminal-Cable
877	399916	1	Alternator Harness
878	393422	1	Harness-Alternator

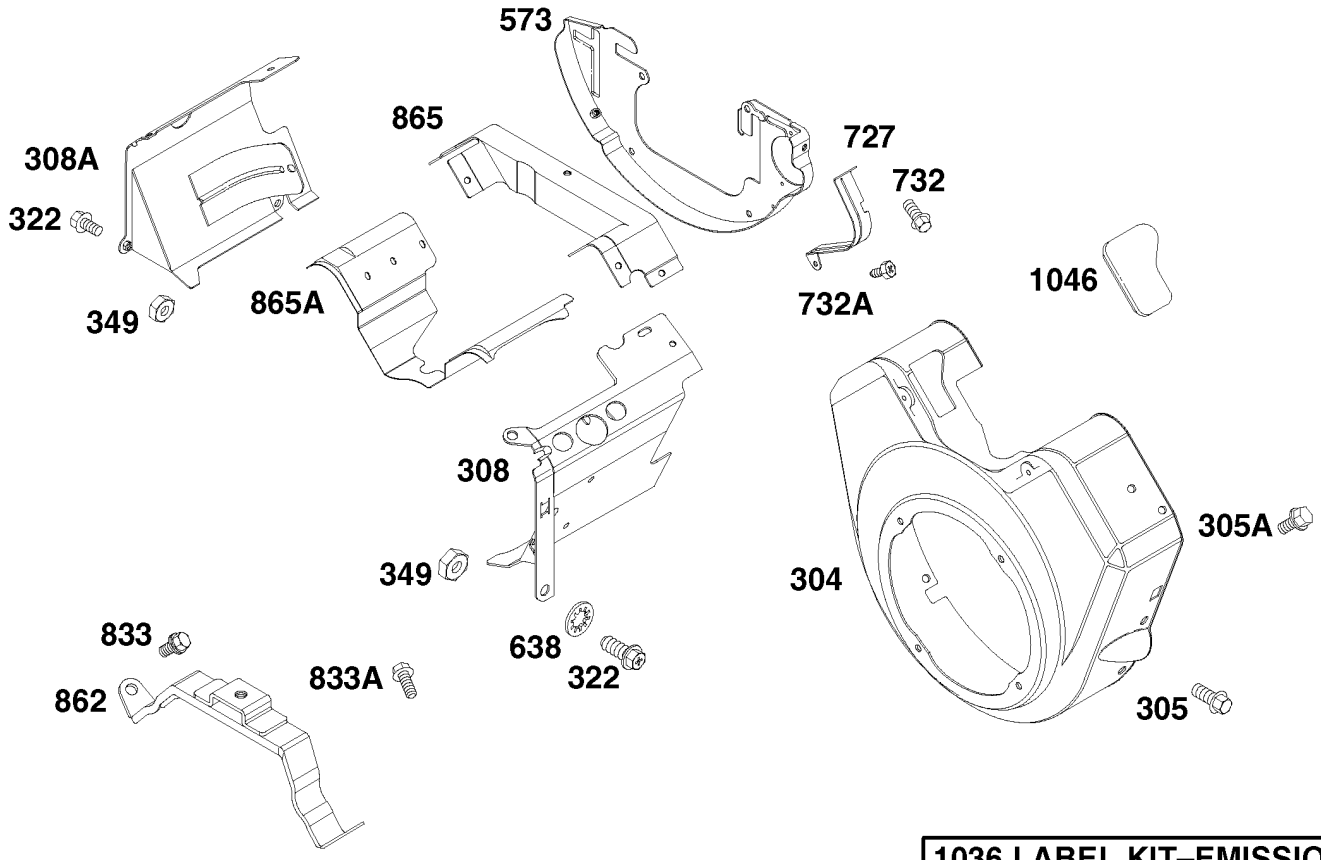


Assemblies include all parts shown in frames.

Oil Pump and Oil Filter Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
15	805059	1	Plug-Oil
87	805054	1	Seal-Governor Shaft
187	398367	1	Hose-Fuel
❹273	805058	1	Seal-O Ring
287	805247	1	Screw
385	693169	1	Screw (fuel Pump)
387	808656	1	Fuel Pump
430	805030	1	Screw
❹468	805316	1	Seal-O Ring
479	805317	1	Screw-Hfh
523	693175	1	Dipstick
524	693172	1	Seal-Fill Tube
525	693174	1	Dipstick Tube
552	805412	1	Bushing-Govemor Shaft
552A	805413	1	Bushing-Govemor Shaft
565	805073	1	Stud-Hex. Drive
596	805057	1	Screw
601	93807	1	Clamp-Hose
615	806096	1	Pin-Cotter
616	807596	1	Fork-Govemor
628	805025	1	Screw
657	805406	1	Screw
788	807685	1	Bracket-Pump
816	805449	1	Washer
❹988	805250	1	Gasket-Adapter

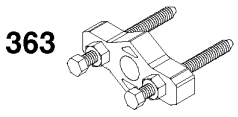
Ref	Part No.	Qty.	Description
965	805654	1	Deflector-Oil
1017	807598	1	Screen-Oil Pump
1024	807644	1	Pump-Oil
1027	492932	1	Filter-Oil

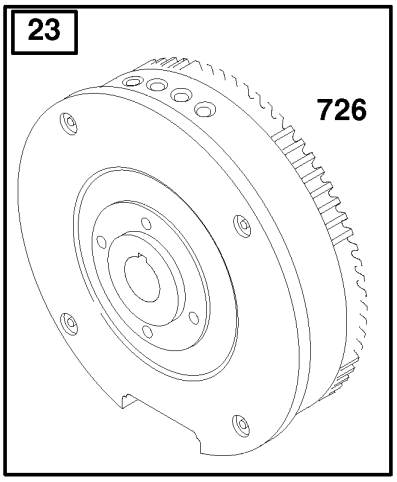


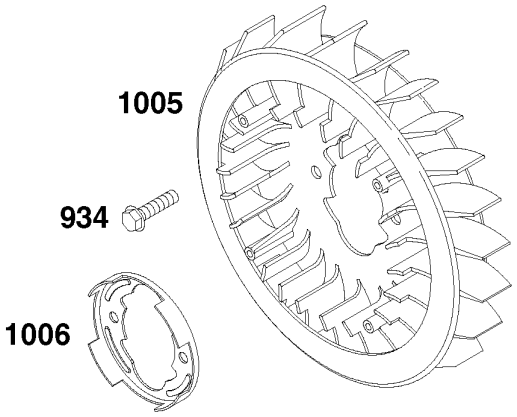
Assemblies include all parts shown in frames.

Blower Housing Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
304	690929	1	Blower Housing
305	805406	1	Screw
305A	805025	1	Screw
308	807870	1	Cover-Air Guide (cyl.#1)
308A	808100	1	Cover-Air Guide (cyl. #2)
322	805406	1	Screw
349	805383	1	Nut
573	807663	1	Plate-Back
638	806101	1	Washer-Lock
727	805505	1	Shield-Starter
732	805406	1	Screw
732A	805260	1	Screw
833	805406	1	Screw
833A	805902	1	Screw-Hex. (m6 X 16mm)
862	807796	1	Bracket-Air Cleaner
865	807661	1	Cover-Air Guide
865A	805738	1	Cover-Air Guide
1036	499370	1	Label Kit-Emission
1046	805753	1	Plug-Blower Housing



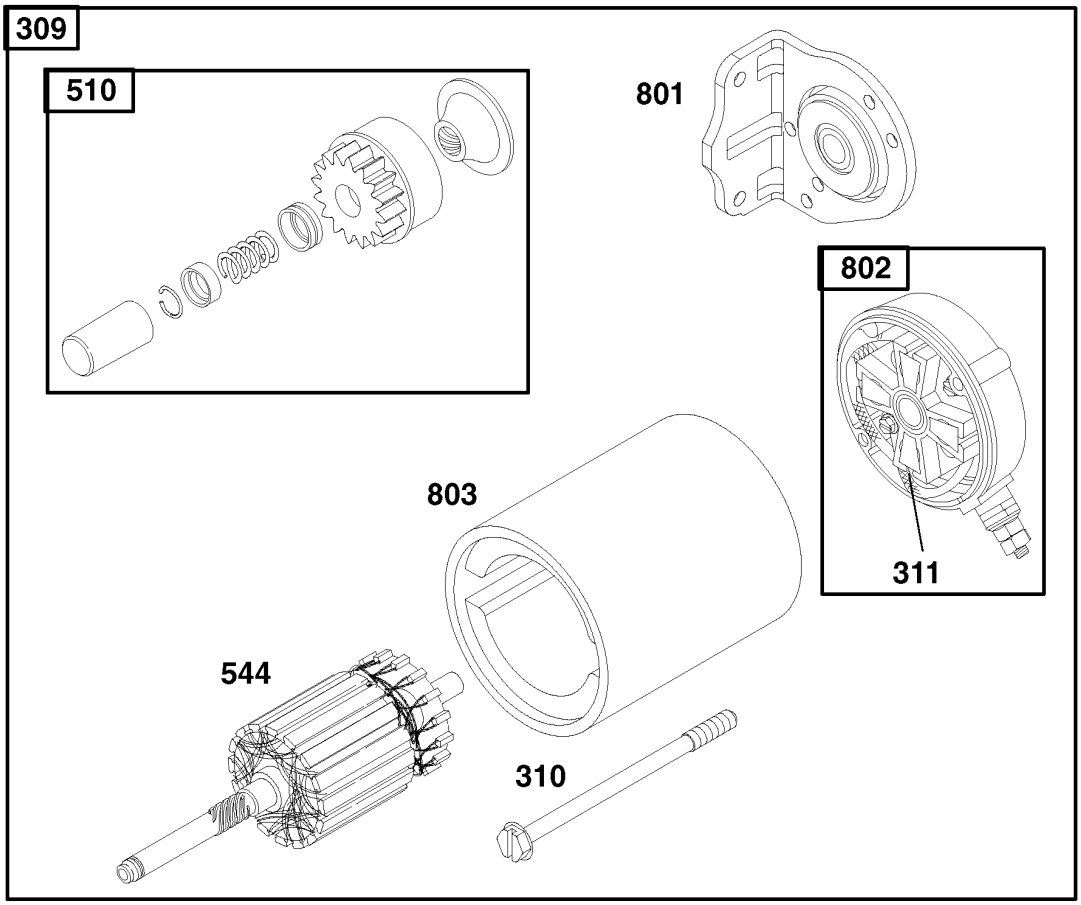




Assemblies include all parts shown in frames.

Fylwheel Assembly
Briggs and Stratton 350447-1116-E1

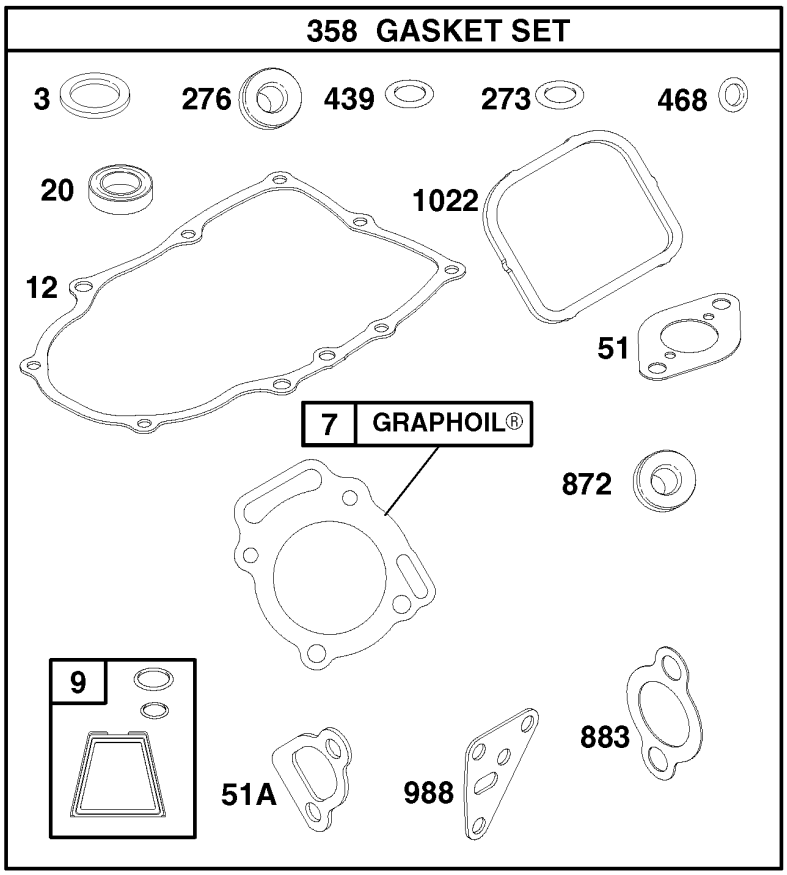
Ref	Part No.	Qty.	Description
23	808129	1	Flywheel
332	806028	1	Nut-Hex.
363	19203	1	Puller-Flywheel
726	808162	1	Gear-Ring
934	94627	1	Screw
1005	808082	1	Fan-Flywheel
1006	224413	1	Retainer-Fan

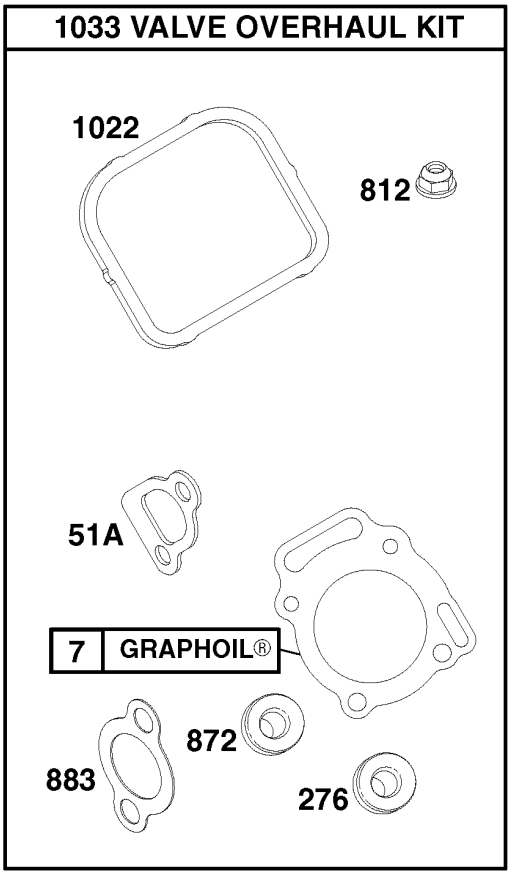


Assemblies include all parts shown in frames.

Starter Assembly
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
309	808106	1	Motor-Starter
310	496880	1	Bolt-Thru
311	496887	1	Brush Set
510	496881	1	Drive-Starter
544	496816	1	Armature-Starter
697	805247	1	Screw
801	496814	1	Cap-Drive
802	496813	1	Bolt
803	496815	1	Housing-Starter

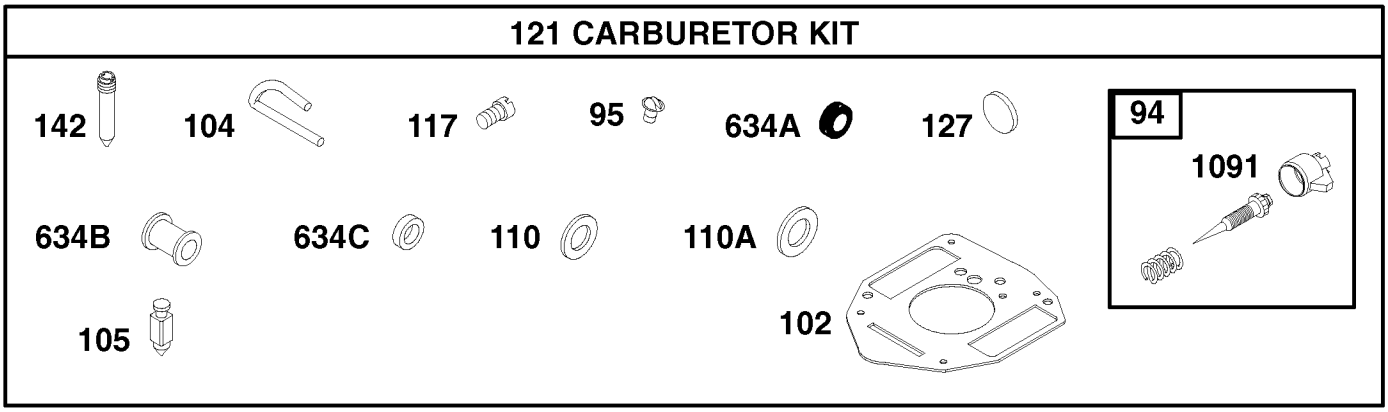




Assemblies include all parts shown in frames.

Gasket Kit
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
❹3	805101	1	Seal-Oil
❹❺7	806086	1	Gasket-Cylinder Head
❹9	807688	1	Gasket-Breather
❹12	806190	1	Gasket-Crankcase
❹20	805049	1	Seal-Oil
❹51	805700	1	Gasket-Intake
❹❺51A	805023	1	Gasket-Intake
❹273	805058	1	Seal-O Ring
❹❺276	805420	1	Washer
358	808389	1	Gasket Set
❹439	806191	1	Seal-O-Ring
❹468	805316	1	Seal-O Ring
❺812	805019	1	Nut-Lock
❹❺872	805420	1	Washer
❹❺883	805024	1	Gasket-Exhaust
❹988	805250	1	Gasket-Adapter
❹❺1022	806039	1	Gasket-Valve Cover
1033	808391	1	Kit-Valve Overhaul



Assemblies include all parts shown in frames.

Carburetor Overhaul Kit
Briggs and Stratton 350447-1116-E1

Ref	Part No.	Qty.	Description
❸94	808399	1	Idle Mixture Kit
❸95	805538	1	Screw
❸102	805541	1	Gasket-Intake Elbow
❸104	805545	1	Float Hinge Pin
❸105	805547	1	Valve-Needle
❸110	805549	1	Washer-Seal
❸110A	806137	1	Washer
❸117	806126	1	Jet-Main
121	808395	1	Carburetor Kit
❸127	805559	1	Plug-Welch
❸142	806128	1	Carburetor Nozzle
❸634A	805544	1	Seal-Shaft
❸634B	805543	1	Collar-Choke
❸634C	806131	1	Seal-Shaft
❸1091	805862	1	Cap-Limiter

TORO®