



Twister® 1600 Utility Vehicle

Model No. 12004TC - 240000001 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.

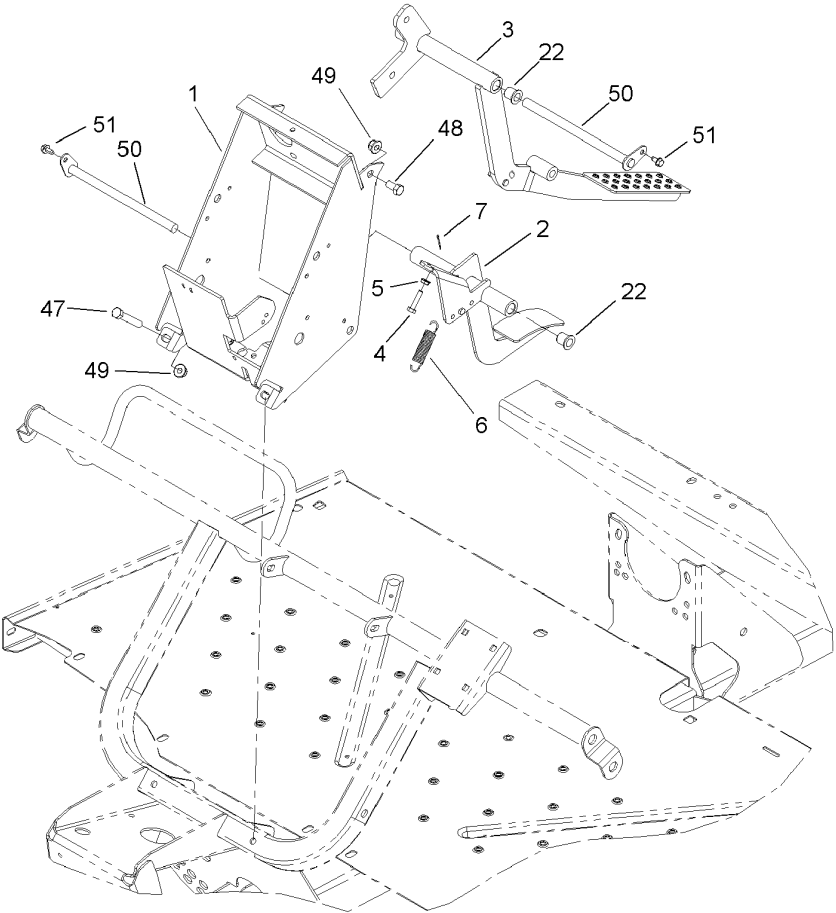
AR.	as required	HYD.	hydraulic
ASM.	assembly	INC.	incorporated
CARR.	carriage	LH.	left hand
DEG.	degrees	NI.	nylon insert
FH.	flat head	PPH.	phillips pan head
GA.	gauge	PTH.	phillips truss head
HF.	hex flange	PTO.	power take off
HH.	hex head	RH.	right hand
HHF.	hex head flange	SFH.	slotted fillister 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 | Included in Engine Gasket Set-Ref. 358. | ❹ | Included in Valve Gasket Set-Ref. 1095. |
| ❺ | Included in Carburetor Overhaul Kit-Ref. 121. | | |

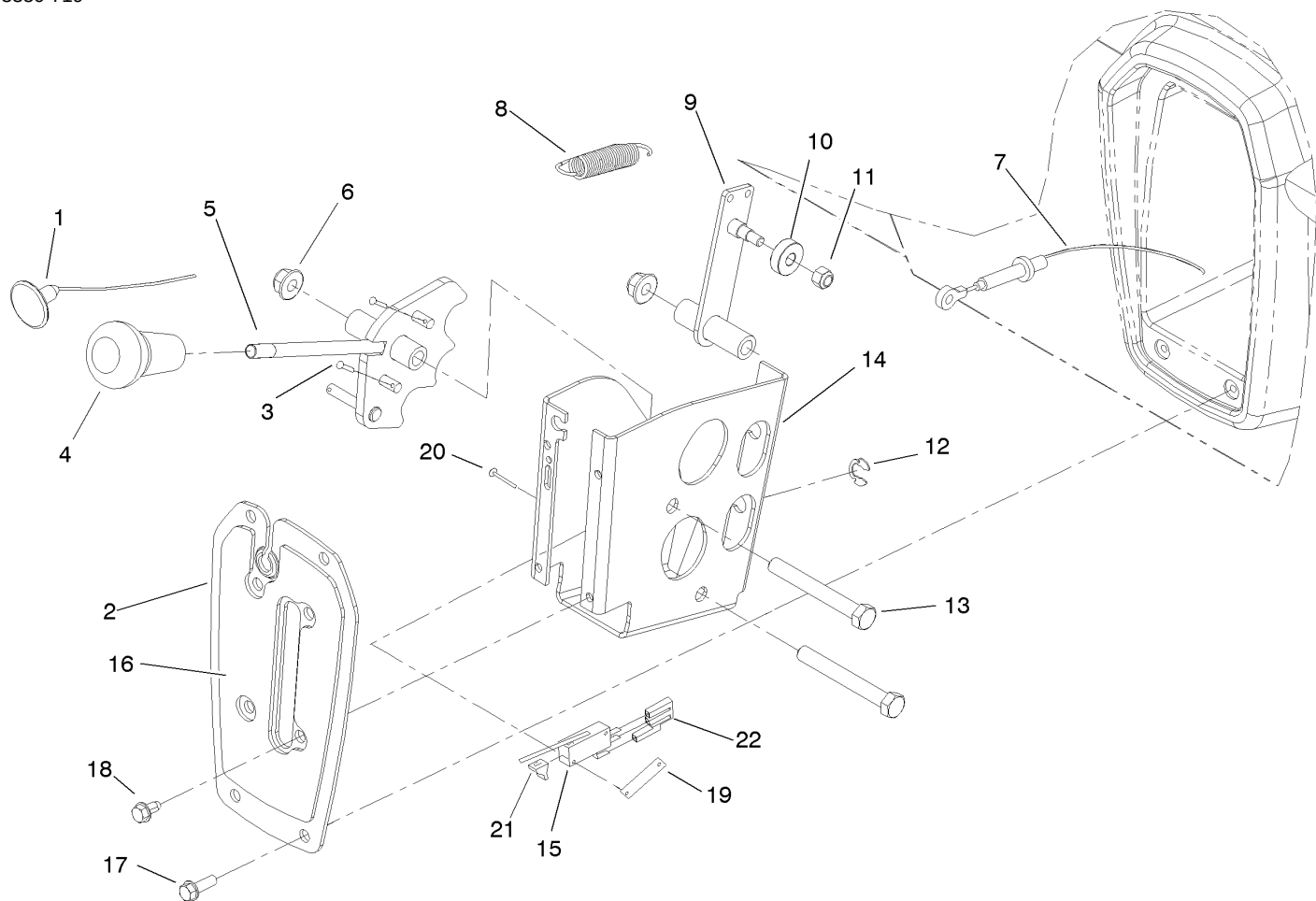
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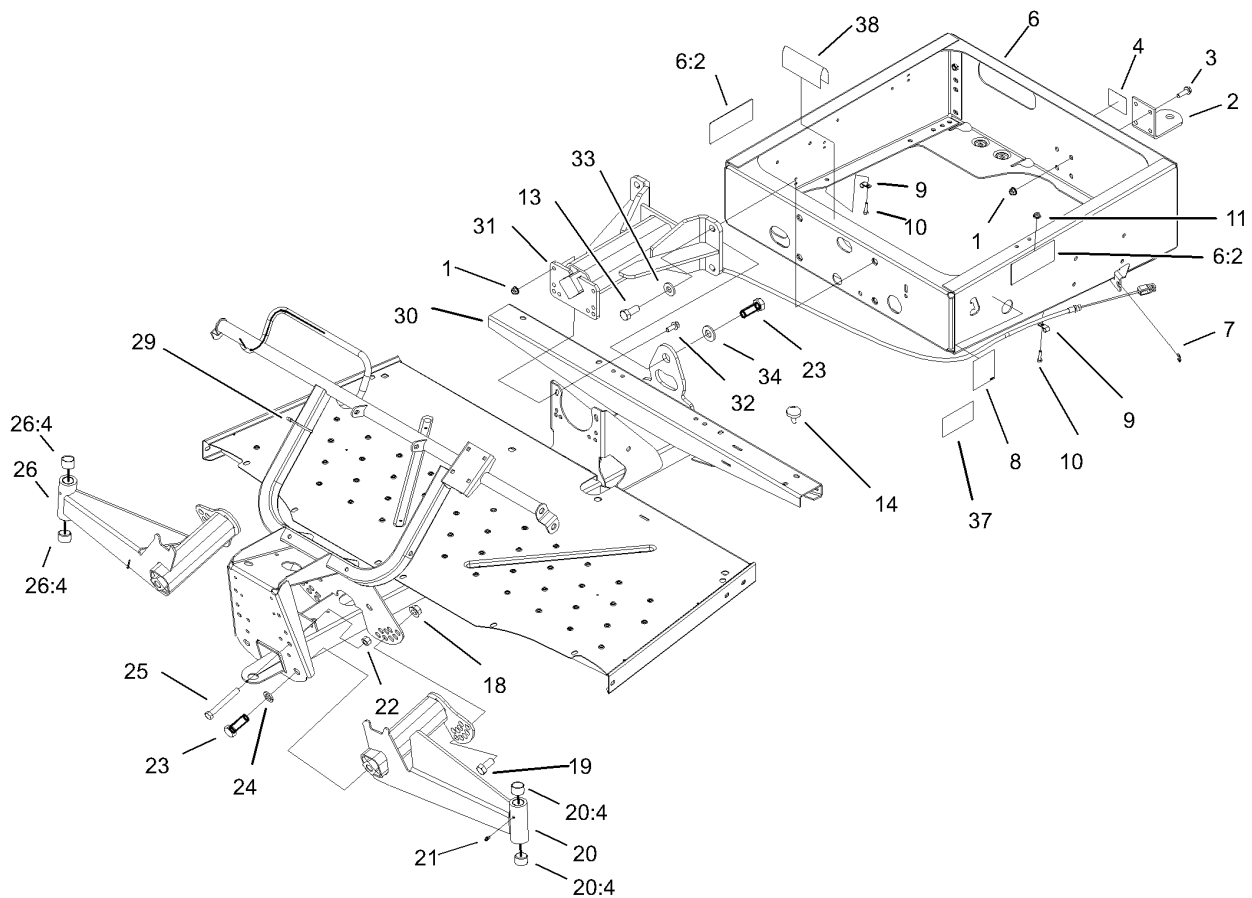
Pedal Assembly

Ref	Part No.	Qty.	Description				
1	104-7160-03	1	Frame-Pedals				
2	104-7165-03	1	Pedal-Throttle				
3	104-7170-03	1	Pedal-Brake				
4	321-7	1	Screw-HH				
5	32149-2	1	Nut				
6	104-6415	1	Spring-Return, Pedal				
7	3272-4	1	Pin-Cotter				
22	256-155	4	Bushing-Flange				
47	323-11	2	Screw-HH				
48	323-4	2	Screw-HH				
49	104-8301	4	Nut-Flange, NI				
50	104-7164	2	Pivot-Pedals				
51	12-3270	2	Screw				



Shifter Assembly

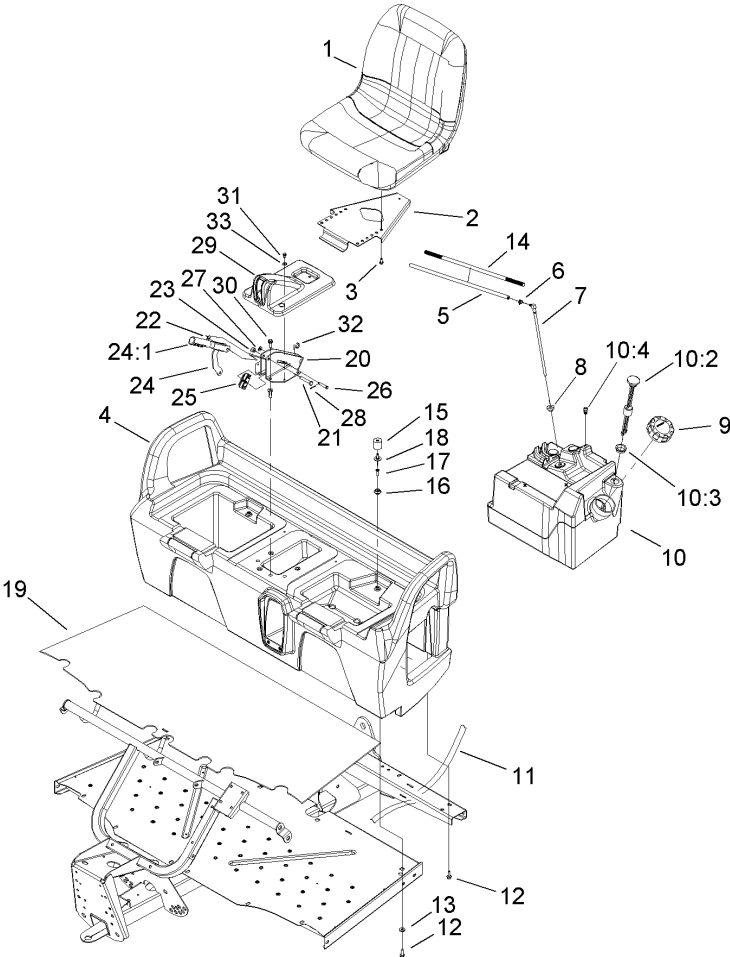
Ref	Part No.	Qty.	Description				
1	99-7111	1	Cable-Choke				
2	99-7887-03	1	Plate-Shifter				
3	3272-5	2	Pin-Cotter				
4	99-7981	1	Knob-Grip, Soft				
5	99-7879	1	Lever-Shifter				
6	104-8301	2	Nut-Flange, NI				
7	104-6896	2	Cable-Shift				
8	104-6415	1	Spring-Return, Pedal				
9	99-7176	1	Detent				
10	251-307	1	Bearing-Ball				
11	3296-42	1	Nut-Lock, NI				
12	32151-101	2	E-Ring				
13	323-14	2	Screw-HH				
14	104-6509-03	1	Bracket-Shift				
15	88-9932	1	Switch-Micro				
16	99-7952	1	Decal-Shifter				
17	32105-15	4	Screw				
18	12-3270	4	Screw				
19	3290-354	1	Nut-Speed				
20	3290-313	2	Screw-Ph				
21	93-3240	1	Plunger-Seal				
22	107-0725	1	Harness-Jumper, Shift				



Frame Assembly

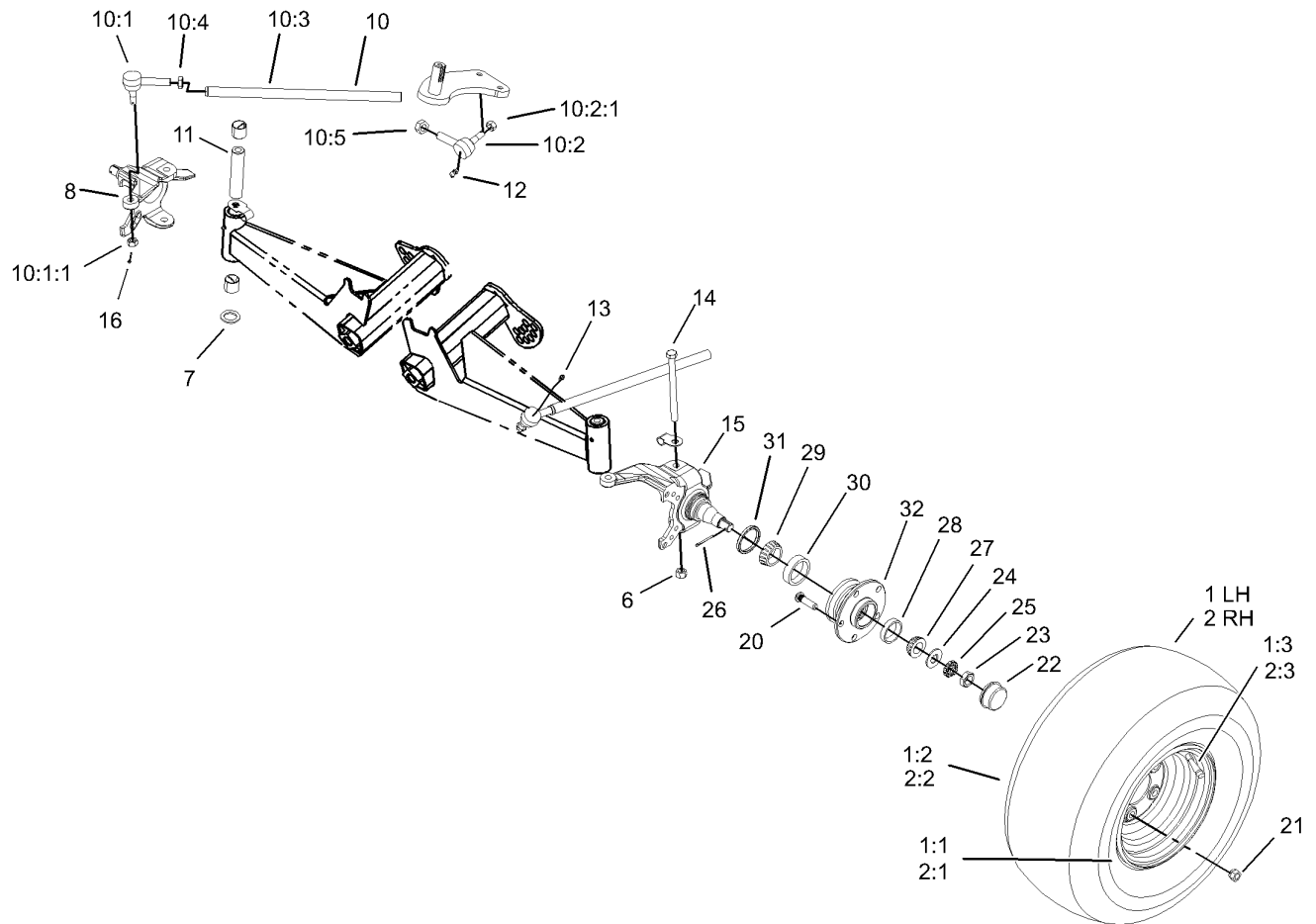
Ref	Part No.	Qty.	Description
1	104-8301	8	Nut-Flange, NI
2	99-7654-03	1	Hitch-Duty, Light
3	3234-24	4	Screw-HHF
4	99-7350	1	Decal-Information
6	99-7362	1	Rear Frame ASM
6:2	99-7345	2	Decal-Warning
7	32120-47	2	Ring-Retaining, External
8	99-7349	1	Decal-Information, Boxlatch
9	2412-89	2	Clamp
10	321-6	2	Screw-HH
11	32128-33	2	Nut-HF
13	327-4	4	Screw-HH
14	87-2440	1	Bumper-Rubber
18	32128-54	2	Nut-Flange
19	3214-2	2	Screw-HH
20	99-7685	1	LH A-Arm ASM
20:4	3-0348	2	Bushing
21	302-5	2	Fitting-Grease
22	3296-23	2	Nut-Lock, NI
23	328-24	5	Screw-HH
24	3254-7	4	Washer-Lock, Int
25	325-17	2	Screw-HH
26	99-7684	1	RH A-Arm ASM
26:4	3-0348	2	Bushing

Ref	Part No.	Qty.	Description
29	3290-379	12	Tie-Cable
30	104-7197-03	1	Front Frame ASM
31	99-7700	1	Pivot Yoke ASM
32	3234-11	4	Screw-HHF
33	99-7667	4	Washer-Flat
34	87-3060	1	Washer-Hardened
37	104-6592	1	Decal-Capacity (Ce)
38	95-5686	1	Trim



Seat Base Assembly

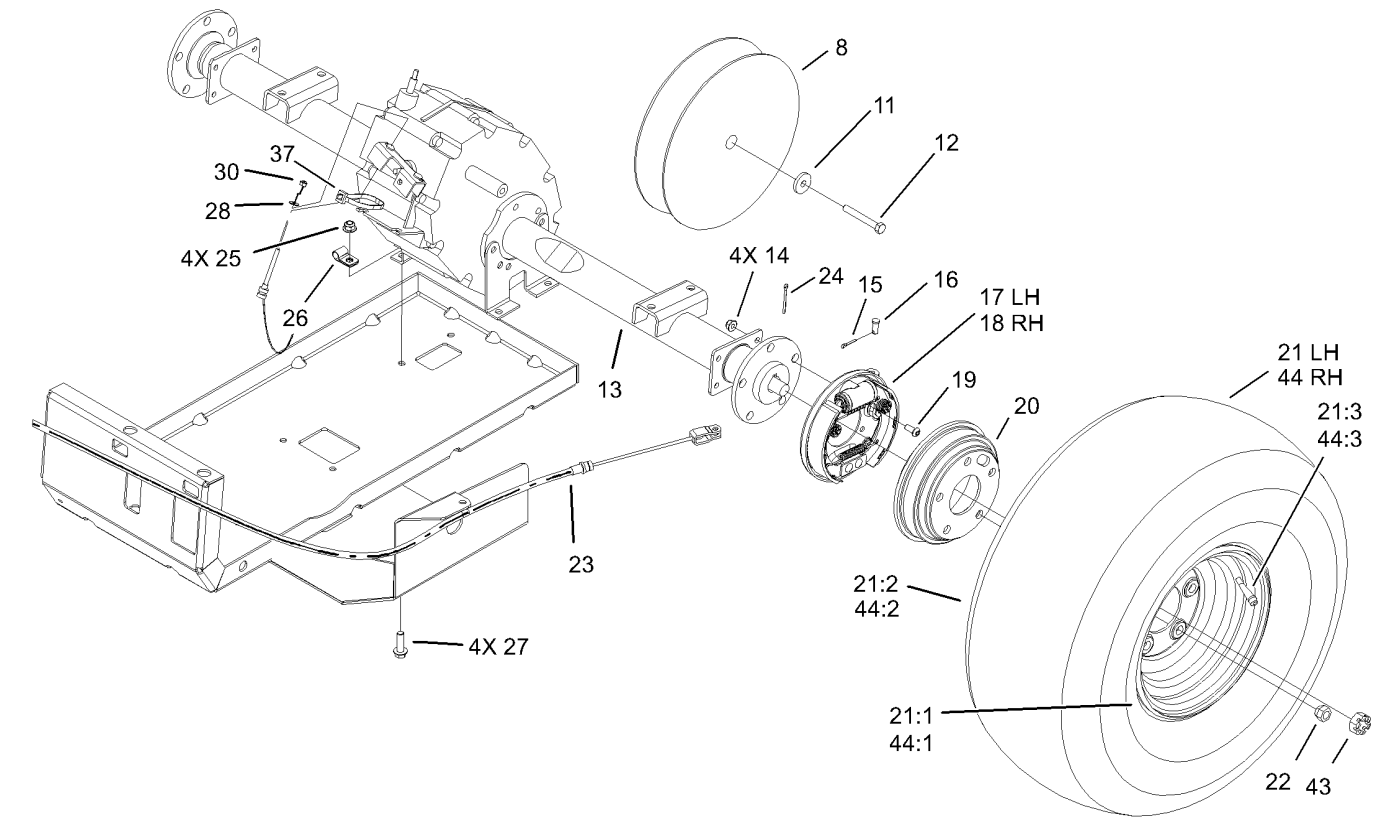
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	106-6672	2	Seat	22	3290-477	1	Washer-Curved
2	99-7829	2	Bracket-Seat	23	3296-39	1	Nut-Lock, NI
3	33114-016	8	Screw-HH	24	104-6842	1	Lever-Brake, Park
4	104-6847	1	Seat Base ASM	24:1	106-7972	1	Grip-Handle
5	99-7187	1	Hose-Fuel	25	87-3480	1	Bracket-Equalizer, Cable
6	2412-98	1	Clamp	26	94-3829	1	Pin-Clevis
7	99-7264	1	Pipe-Stand	27	3256-23	1	Washer-Flat
8	46-6560	1	Bushing	28	3272-6	1	Pin-Cotter
9	95-4192	1	Unleaded Gas Cap ASM	29	104-7014	1	Cover-Brake, Parking
10	99-7323	1	Fuel Tank ASM	30	3234-17	4	Screw-HHF
10:2	99-7262	1	Gauge-Fuel	31	12-3270	2	Screw
10:3	95-8972	1	Grommet	32	32120-47	2	Ring-Retaining, External
10:4	99-7267	1	Vent-Air	33	3256-1	2	Washer-Flat
11	3339-175	1	Strapping-Web, 48in				
12	3234-17	8	Screw-HHF				
13	88-7200	8	Washer-Flat				
14	99-7129	1	Conduit-Line, Fuel				
15	99-7830	2	Rubber Receptical ASM				
16	99-7833	2	Post-Holding				
17	32108-5	2	Screw-FH				
18	3290-412	2	Rivet				
19	104-6590	1	Mat-Floor				
20	104-6844-03	1	Support-Brake, Park				
21	323-10	1	Screw-HH				



Front Tire and Steering Assembly

Ref	Part No.	Qty.	Description
1	104-6831	1	Tire And Wheel ASM
1:1	104-6889	1	Wheel-5 Bolt
1:2	104-7062	1	Tire
1:3	232-27	1	Stem-Valve
2		1	Tire & Wheel ASM
2:1	104-6889	1	Wheel-5 Bolt
2:2	104-7062	1	Tire
2:3	232-27	1	Stem-Valve
6	3296-23	2	Nut-Lock, NI
7	256-115	2	Washer-Thrust
8	104-6877-03	1	Spindle-Machined, RH Disc
10		2	Tie Rod ASM
10:1	112772	1	Joint-Ball, RH
10:1:1	915031	1	Nut
10:2	112771	1	Joint-Ball, LH
10:2:1	915031	1	Nut
10:3	99-7600-03	1	Rod-Tie
10:4	3220-11	1	Nut-Jam
10:5	3218-21	1	Nut-Jam
11	99-7499	2	Sleeve-Kingpin
12	302-60	2	Fitting-Grease
13	302-5	2	Fitting-Grease
14	325-20	2	Screw-HH
15	104-6876-03	1	Spindle-Disc, LH

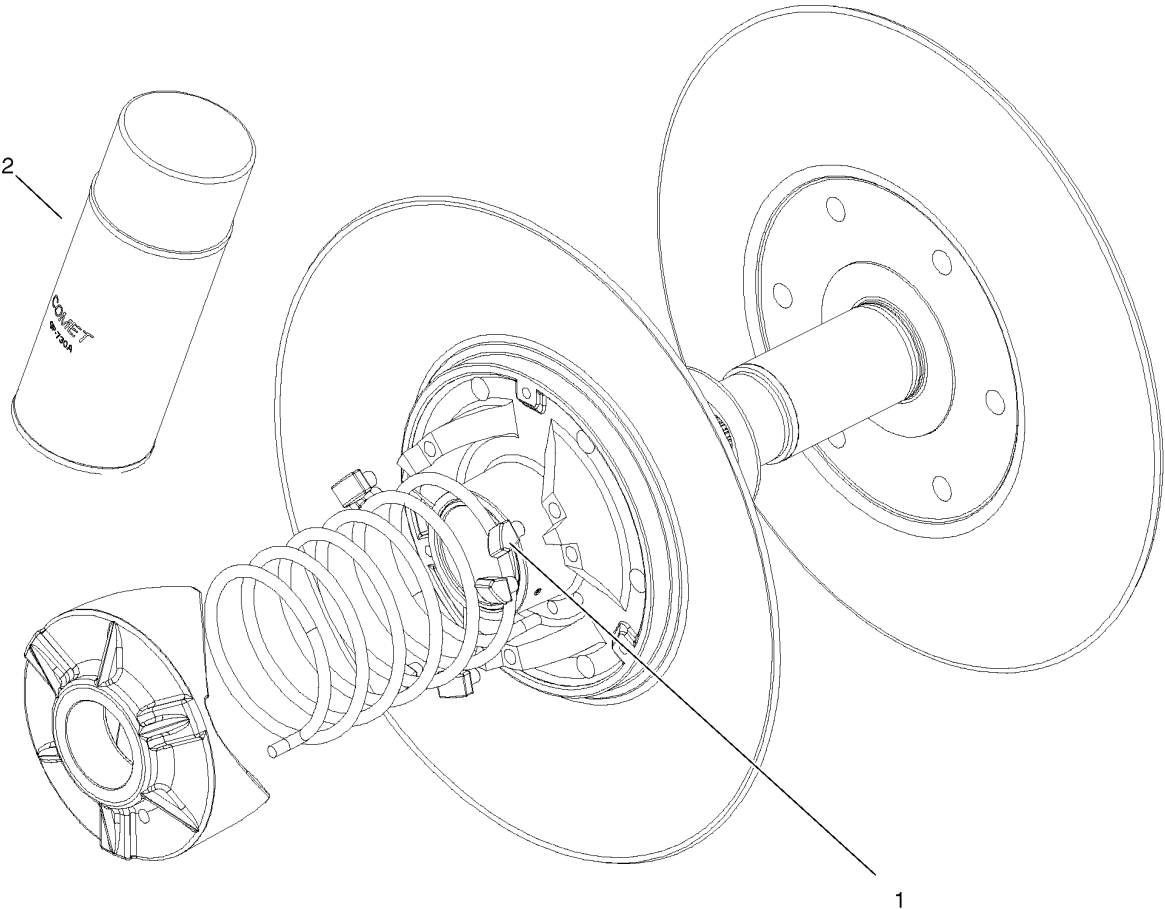
Ref	Part No.	Qty.	Description
16	3272-7	4	Pin-Cotter
20	10-6830	10	Stud-Type, Drive
21	242-50	10	Nut-Lug
22	241-119	2	Cap-Dust
23	3220-7	2	Nut-Jam
24	93-0309	2	Washer-Tab
25	93-0307	2	Nut-Lock, Retainer
26	3272-12	2	Pin-Cotter
27	254-94	2	Bearing-Cone, Taper
28	254-72	2	Bearing-Cup, Tapered
29	254-106	2	Cone-Bearing, Tapered
30	254-107	2	Cup-Bearing, Tapered
31	87-3590	2	Seal-Bearing
32	104-6809-03	2	Hub (Machined)



Rear Tire and Transaxle Assembly

Ref	Part No.	Qty.	Description
8	99-7104	1	Clutch-Driven
11	104-6563	1	Washer-Stepped
12	104-6564	1	Screw-HH
13	104-6898	1	Transaxle
14	104-8300	8	Nut-Flange, NI
15	3272-10	2	Pin-Cotter
16	283-62	2	Pin-Clevis
17	104-6807	1	LH Brake ASM
18	104-6806	1	RH Brake ASM
19	3274-55	8	Screw-HSBH
20	104-6500	2	Drum-Brake
21	104-6830	1	Tire And Wheel ASM
21:1	104-6889	1	Wheel-5 Bolt
21:2	104-7061	1	Tire
21:3	232-27	1	Stem-Valve
22	242-50	10	Nut-Lug
23	104-6846	2	Cable-Brake, Park
24	3272-42	2	Pin-Cotter
25	104-8301	4	Nut-Flange, NI
26	2412-10	1	R-Clamp
27	3234-24	4	Screw-HHF
28	3256-49	2	Washer-Flat
30	3296-2	2	Nut-Lock
37	3290-378	1	Tie-Cable

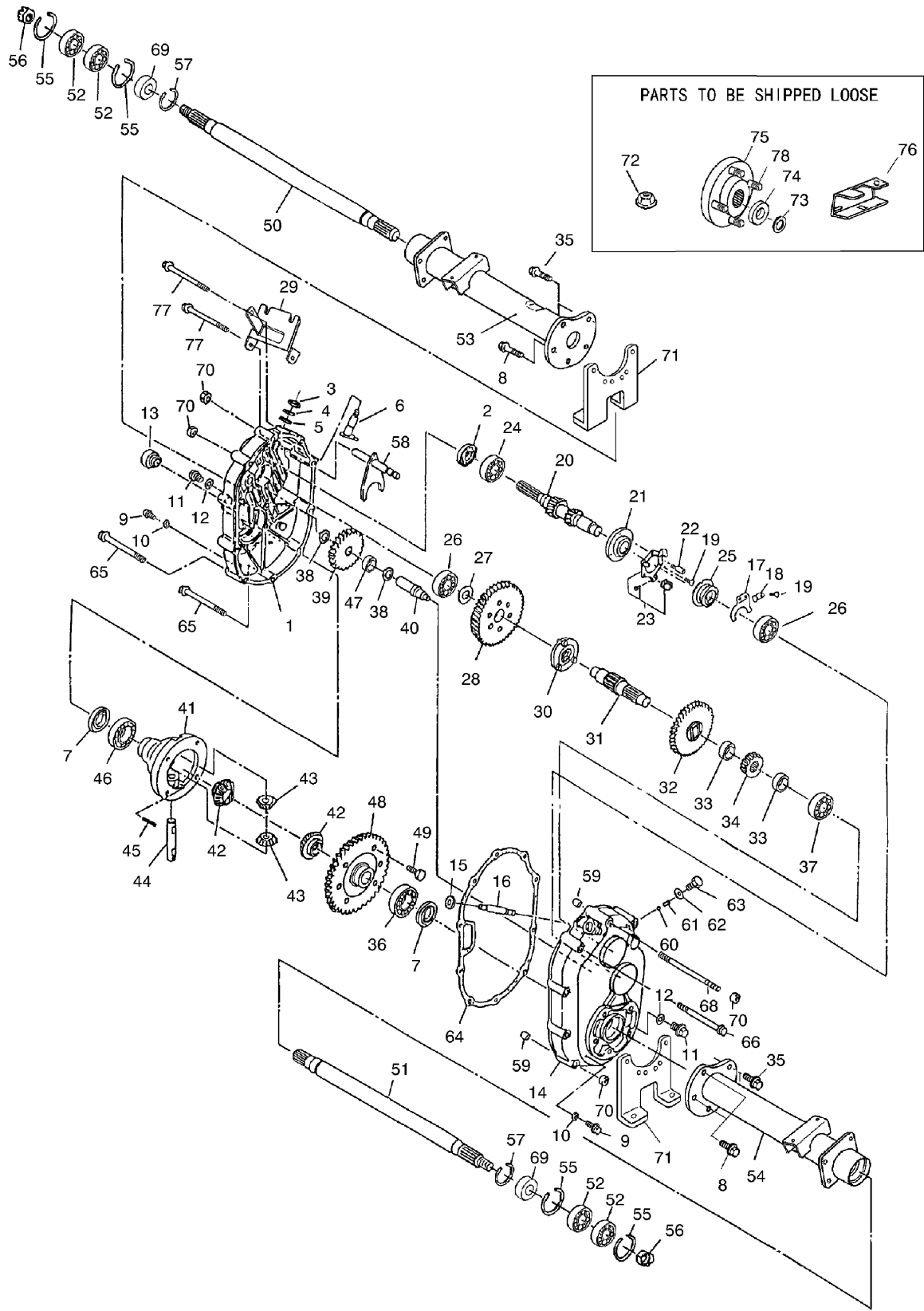
Ref	Part No.	Qty.	Description
43	104-1656	2	Nut-Castle
44		1	Tire & Wheel ASM
44:1	104-6889	1	Wheel-5 Bolt
44:2	104-7061	1	Tire
44:3	232-27	1	Stem-Valve



Driven Clutch Assembly No. 99-7104

Ref	Part No.	Qty.	Description				
1	104-4257	1	Button Kit				
2	104-7011	1	Lubricant-Dry				
PROTOTYPE							

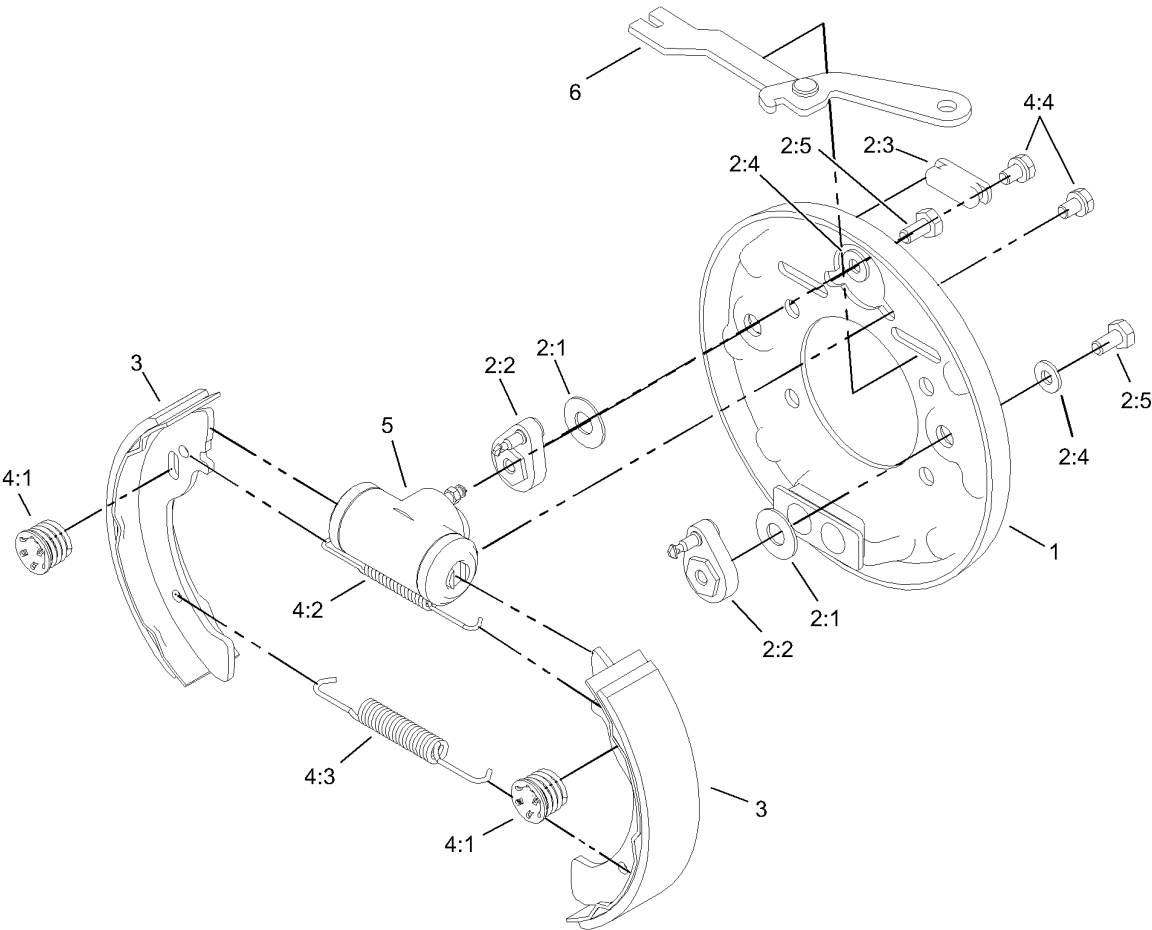
Transaxle Assembly No. 107-0360



Transaxle Assembly No. 107-0360

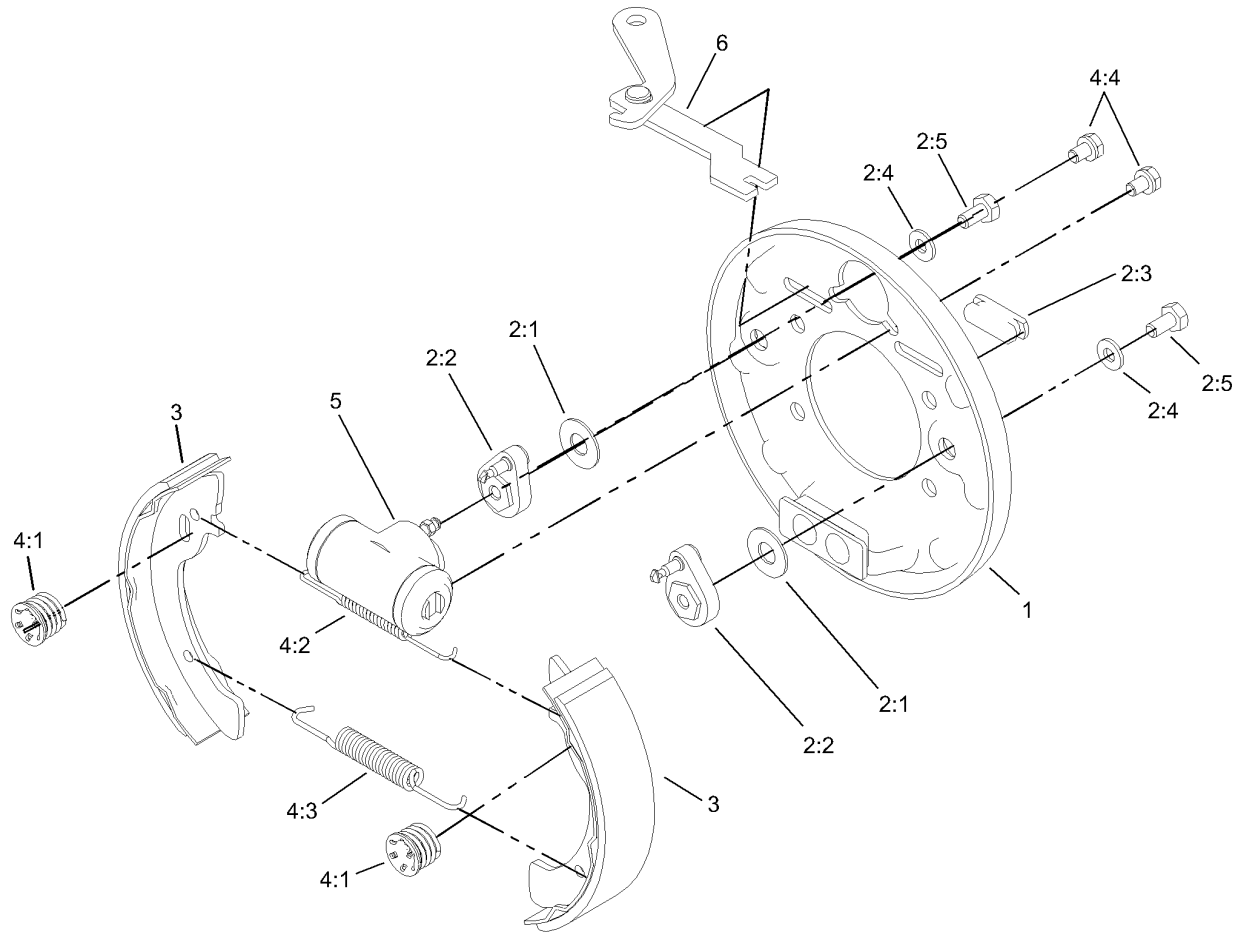
Ref	Part No.	Qty.	Description
1	104-1601	1	Case-Lh, Complete
2	104-1602	1	Seal-Oil
3	104-1603	1	Seal-Oil
4	104-1604	1	Ring-Snap
5	104-1605	1	Spacer
6	104-1606	1	Shaft-Selector
7	104-1607	2	Seal-Oil
8	104-1608	4	Bolt-Flange
9	104-1609	2	Plug-Check, Oil
10	104-1610	2	Gasket
11	104-1611	2	Plug-Drain, Oil
12	104-1612	2	Gasket
13	104-1613	1	Plug-Filler, Oil
14	104-1614	1	Case-Complete, RH
15	104-1615	1	Seal-Oil
16	104-1616	1	Shaft-Governor
17	104-1617	1	Fork-Governor
18	104-1618	1	Stopper
19	104-1619	4	Screw And Washer ASM
20	104-7002	1	Shaft-Input, Complete
21	104-1621	1	Base-Governor
22	104-1622	1	Pin-Lock
23	104-1623	1	Unit-Plate, Governor
24	104-1624	1	Bearing-Ball
25	104-1625	1	Sleeve-Governor
26	104-1626	2	Bearing-Ball
27	104-1627	1	Spacer
28	104-1628	1	Gear
29	104-1629	1	Bracket-Wire, Change
30	104-1630	1	Clutch-Pin
31	104-1631	1	Shaft-Center
32	104-1632	1	Gear-47
33	104-1633	2	Collar
34	104-1634	1	Gear
35	104-1635	6	Bolt-Flange
36	104-1636	1	Bearing-Ball
37	104-1637	1	Bearing-Ball
38	104-1638	2	Spacer
39	104-1639	1	Gear-34
40	104-1640	1	Shaft-Counter
41	104-1641	1	Case-Differential
42	104-1642	2	Gear-Side, Differential
43	104-1643	2	Pinion-Differential
44	104-1644	1	Shaft-Differential
45	104-1645	1	Pin
46	104-1646	1	Bearing-Ball
47	104-1647	1	Bearing-Needle
48	104-1648	1	Gear-62
49	104-1649	6	Bolt
50	104-1650	1	Shaft-Axle, LH
51	104-1651	1	Shaft-Axle, RH
52	104-1652	4	Bearing-Ball

Ref	Part No.	Qty.	Description
53	104-1653	1	Case-Axle, LH
54	104-1654	1	Case-Axle, RH
55	104-1655	4	Ring-Snap
56	104-1656	2	Nut-Castle
60	104-1660	1	Ball-Steel
57	104-1657	2	Ring-Snap
58	104-6870	1	Shaft-Shift, Complete
59	104-1659	2	Knock-Pipe
60	104-1660	1	Ball-Steel
61	104-1661	1	Spring
62	104-1662	1	Gasket
63	104-1663	1	Bolt
64	104-1664	1	Gasket
65	104-1665	6	Bolt-Flange
66	104-1666	1	Bolt-Flange
68	104-6866	1	Bolt
69	104-6867	2	Collar
70	33004-00	11	Nut-HF
71	104-1671	2	Bracket-Axle
72	104-1672	1	Nut-Lock
73	104-1673	2	Washer-Spring
74	104-1674	2	Washer
75	104-1675	2	Hub
76	104-6860	1	Lever-Select
77	104-6869	2	Bolt-Flange
78	104-8649	10	Stud



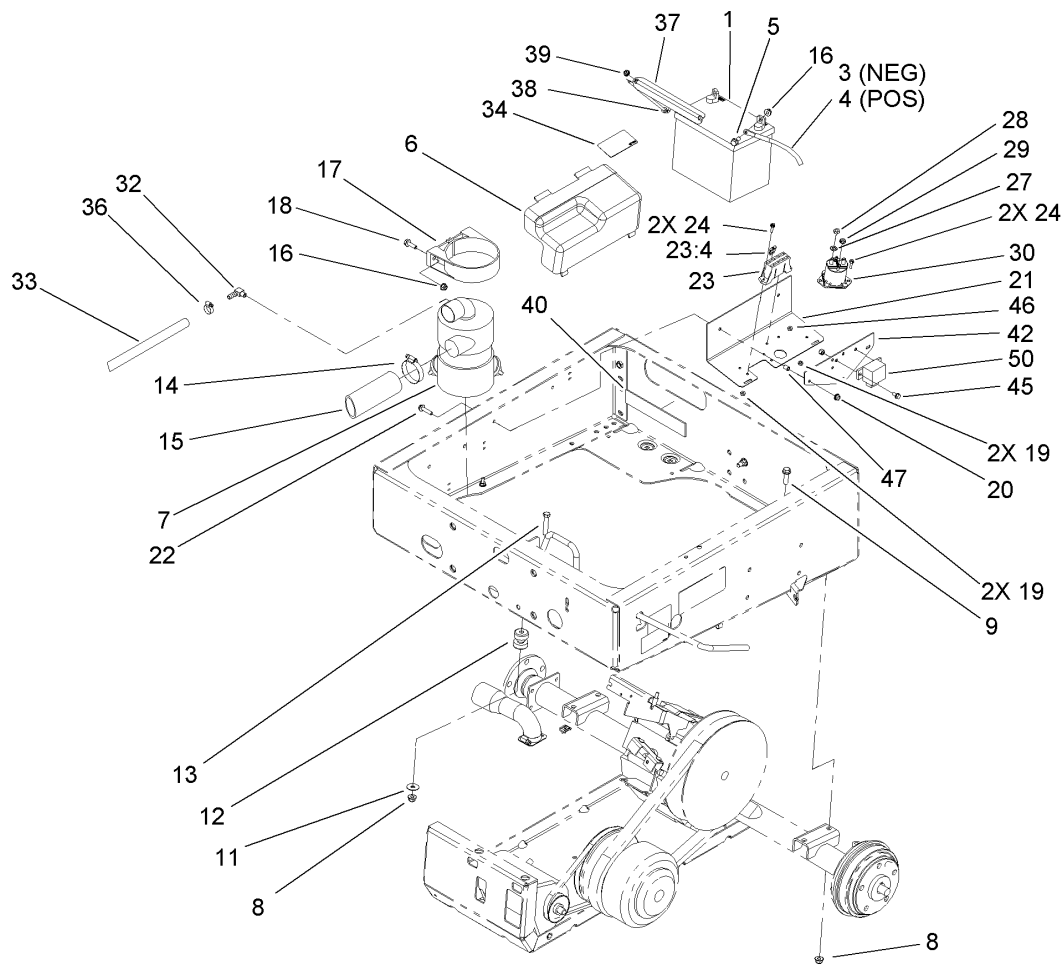
Left Hand Brake Assembly No. 104-6807

Ref	Part No.	Qty.	Description				
1	100-8586	1	Backing Plate ASM				
2	104-6820	1	Adjuster Kit				
2:1	100-8585	2	Washer-Bellville				
2:2	100-8588	2	Adjuster Lever ASM				
2:3	100-8584	2	Cover-Dust				
2:4		2	Washer				
2:5		2	Bolt				
3	104-6818	4	Shoe & Lining Kit				
4	104-6819	1	Hardware Kit				
4:1	100-8583	2	Shoe Hold Down Spring ASM				
4:2	100-8581	2	Spring-Upper				
4:3	100-8582	2	Spring-Lower				
4:4		2	Bolt & Washer				
5	104-6824	1	Wheel Cylinder ASM				
6	104-6825	1	LH Park Brake Lever ASM				



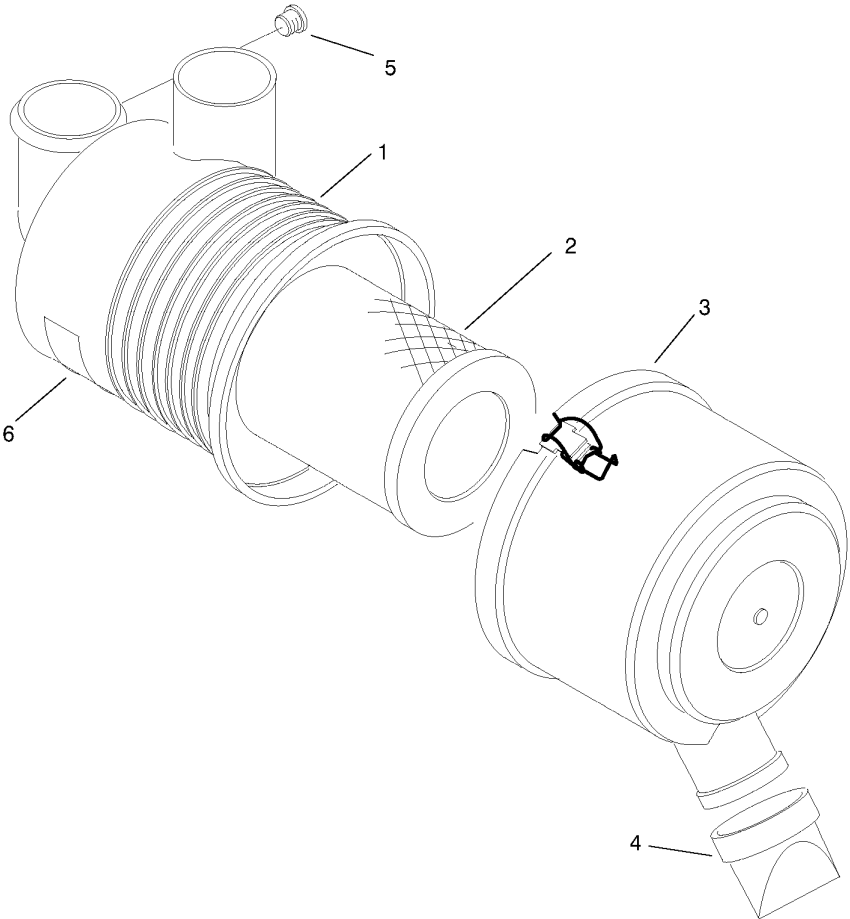
Right Hand Brake Assembly No. 104-6806

Ref	Part No.	Qty.	Description				
1	100-8586	1	Backing Plate ASM				
2	104-6820	1	Adjuster Kit				
2:1	100-8585	2	Washer-Bellville				
2:2	100-8588	2	Adjuster Lever ASM				
2:3	100-8584	2	Cover-Dust				
2:4		2	Washer				
2:5		2	Bolt				
3	104-6818	4	Shoe & Lining Kit				
4	104-6819	1	Hardware Kit				
4:1	100-8583	2	Shoe Hold Down Spring ASM				
4:2	100-8581	2	Spring-Upper				
4:3	100-8582	2	Spring-Lower				
4:4		2	Bolt & Washer				
5	104-6824	1	Wheel Cylinder ASM				
6	104-6826	1	RH Park Brake Lever ASM				



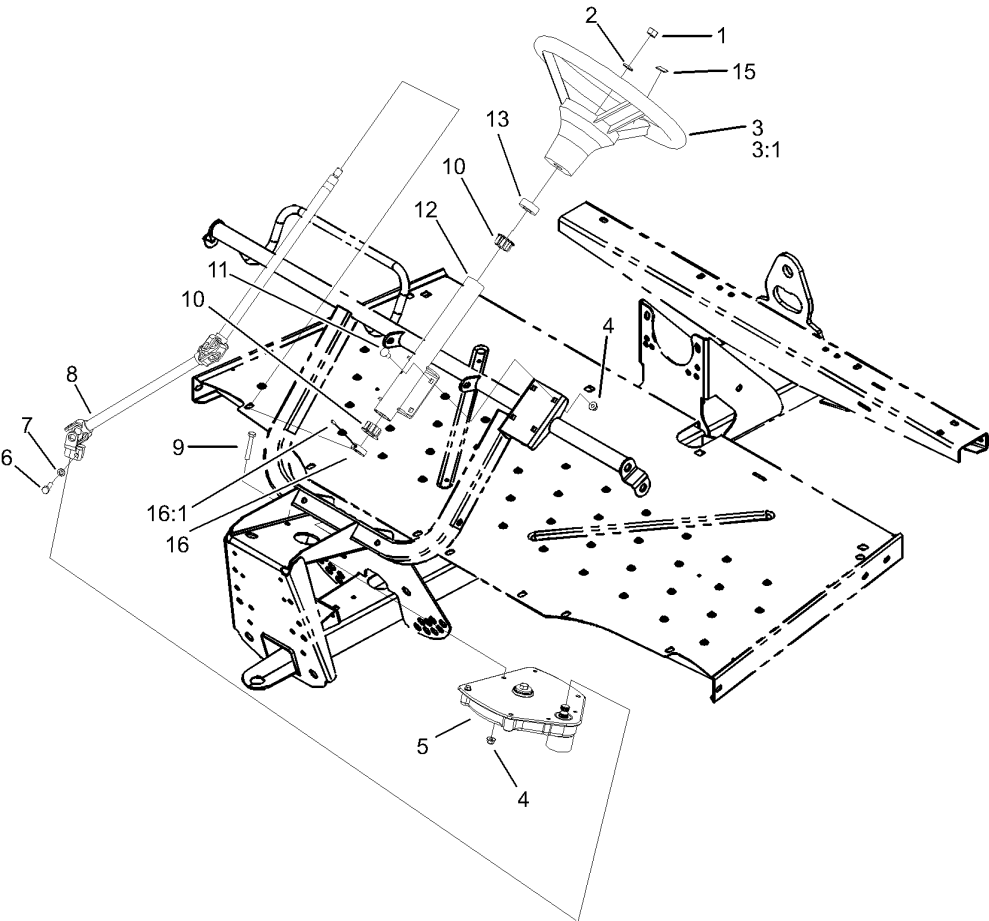
Drivetrain Mount Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	104-8162	1	Battery (Dry)	28	3218-2	2	Nut-Jam
3	99-7428	1	Cable-Negative	29	32149-8	2	Nut-Keps
4	99-7404	1	Cable-Positive	30	28-4210	1	Solenoid
5	3234-5	2	Screw	32	99-7230	1	Fitting-90 DEG
6	99-7325	1	Cover-Electrical	33	99-7842	1	Hose-Breather
7	99-7120	1	Filter-Air	34	99-7958	1	Decal-Information
8	104-8301	6	Nut-Flange, NI	36	2412-36	2	Clamp-Hose
9	3234-24	4	Screw-HHF	37	92-5018-03	1	Clamp-Battery
11	3256-35	2	Washer-Flat	38	95-4042	2	Hook-Retain, Battery
12	95-2596	2	Mount-Iso	39	104-7201	2	Nut-HF
13	323-10	2	Screw-HH	40	104-7102	1	Pad-Battery
14	2412-130	1	Clamp-Hose	42	99-7370-03	1	Bracket-Ignition
15	104-6528	1	Hose-Intake	45	3234-13	2	Screw-HHF
16	104-8300	4	Nut-Flange, NI	46	3296-42	2	Nut-Lock, NI
17	95-5806	1	Bracket-Mounting	47	68-0610	2	Spacer
18	3234-17	2	Screw-HHF	50	66-8800	1	Relay
19	3296-2	4	Nut-Lock				
20	32128-32	2	Nut-HHF				
21	99-7051-03	1	Mount-Component				
22	3234-21	2	Screw-Cap				
23	107-0673	1	Harness-Wire, Main				
23:4	218-578	1	Fuse-10 Amp				
24	32105-13	4	Screw-SHH				
27	3255-8	2	Washer-Lock				



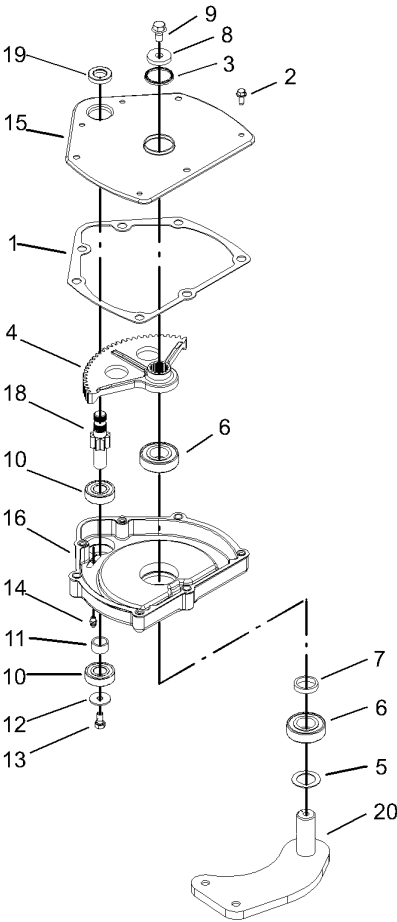
Air Filter Assembly No. 99-7120

Ref	Part No.	Qty.	Description				
❶ 1		1	Body				
2	93-2195	1	Filter				
3	94-3652	1	Cover ASM				
4	87-9400	1	Valve-Vacuator				
❷ 5		1	Plug				
❸ 6		1	Marking				
PROTOTYPE							



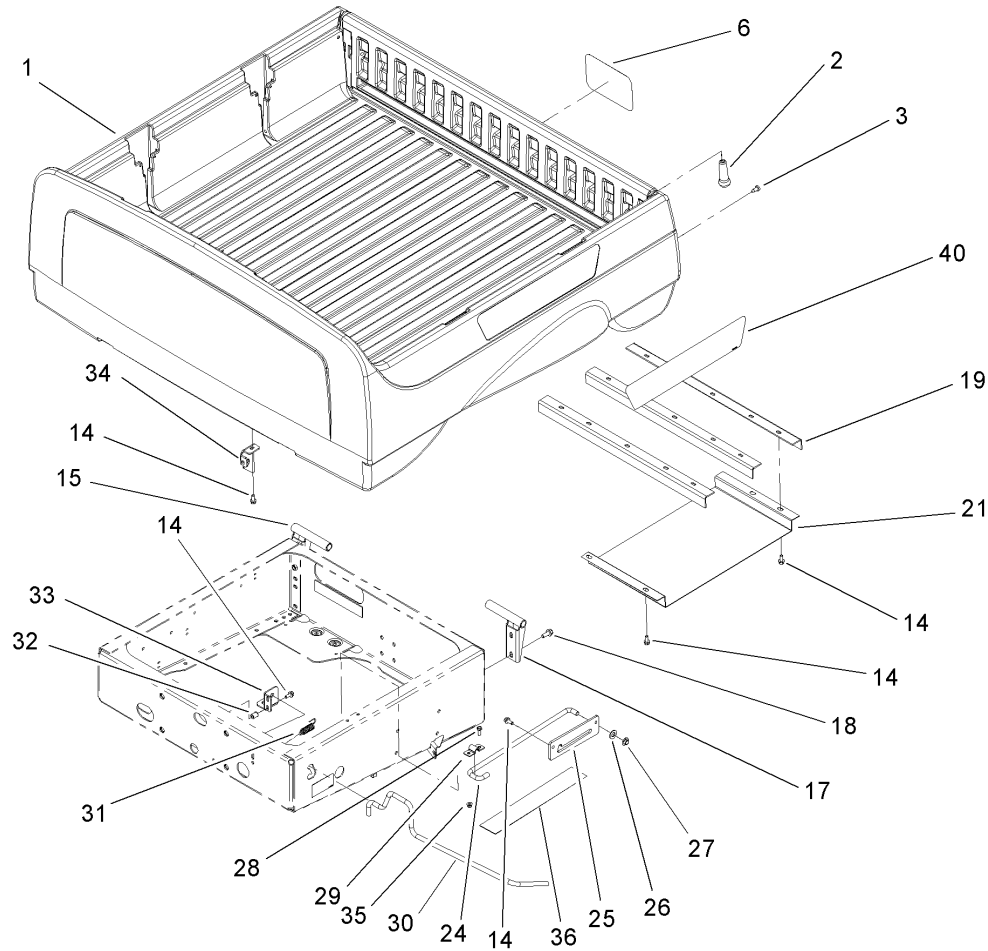
Upper Steering Assembly

Ref	Part No.	Qty.	Description				
1	3277-1	1	Nut-Hex				
2	48-8070	1	Washer-Lock				
3	98-1471	1	Wheel-Steering				
3:1	98-1468	1	Cover-Wheel, Steering				
4	104-8300	7	Nut-Flange, NI				
5	99-7660	1	Steering Gearbox ASM				
6	48-7730	1	Screw-HH				
7	3253-4	1	Washer-Lock				
8	99-7653	1	Shaft-Steering				
9	322-10	3	Screw-HH				
10	93-1146	2	Bushing-Upper, Steering				
11	3230-1	4	Bolt-CARR				
12	99-7651-03	1	Column-Steering				
13	21-9260	1	Cover-Dust				
15	98-1459	1	Decal				
16	111383	1	Collar				
16:1	3245-32	1	Screw-HS				



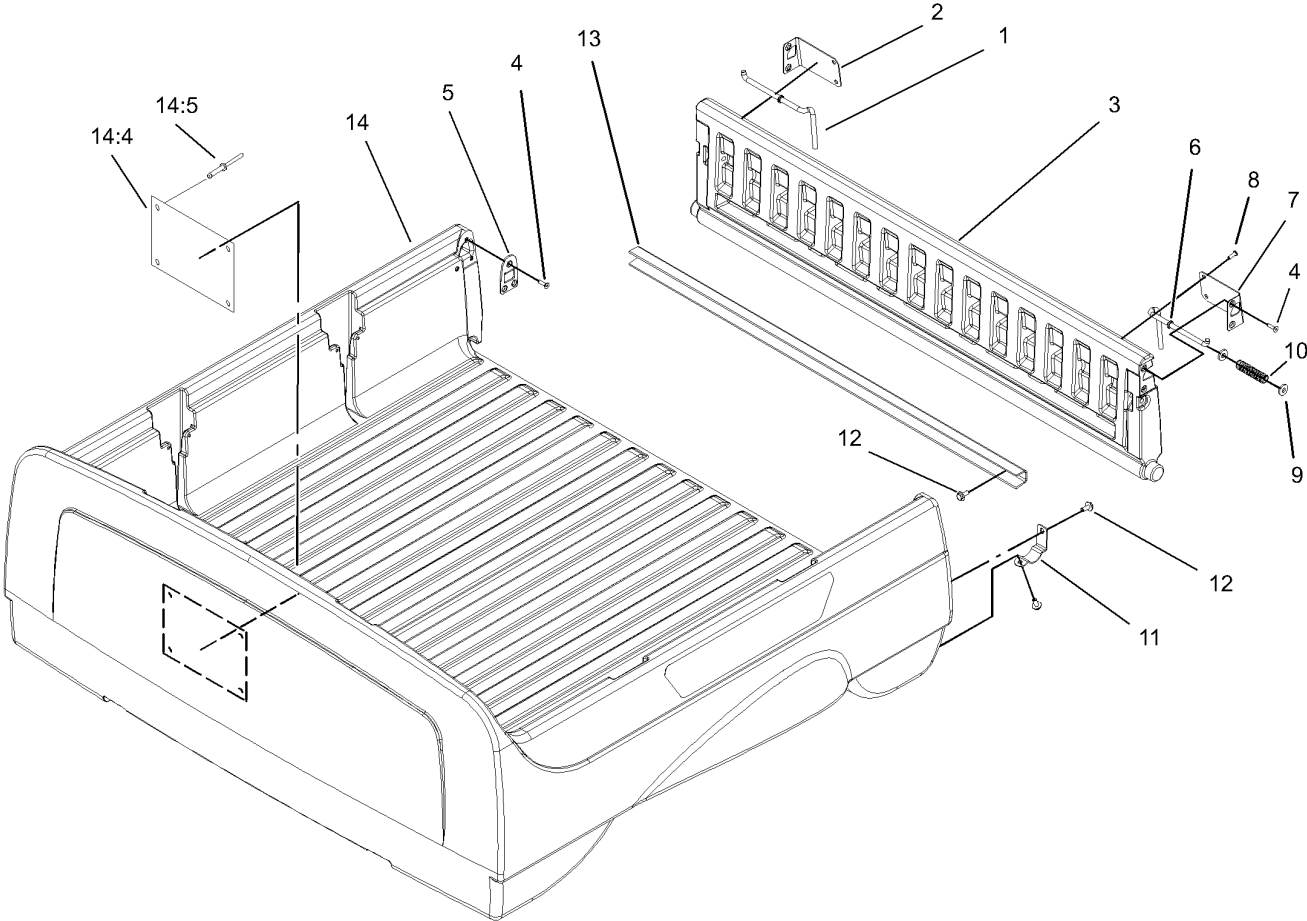
Steering Gearbox Assembly No. 99-7660

Ref	Part No.	Qty.	Description				
1	94-2135	1	Gasket				
2	32144-10	4	Screw-HWH				
3	103118	1	Seal				
4	99-7843	1	Sector-Gear				
5	3256-42	1	Washer-Flat				
6	251-82	2	Bearing-Ball				
7	94-2218	1	Spacer-Shaft, Output				
8	104-6563	1	Washer-Stepped				
9	104-7156	1	Screw-HHF				
10	38-7820	2	Bearing-Ball				
11	94-2217	1	Spacer-Shaft, Input				
12	3256-82	1	Washer-Flat				
13	98-3498	1	Screw-HH				
14	302-5	1	Fitting-Grease				
15	99-7656-03	1	Cover-Housing, Steering				
16	99-7658	1	Housing-Steering				
18	99-7650	1	Gear-Pinion				
19	99-7657	1	Seal-Oil				
20	99-7601-03	1	Arm-Pitman				



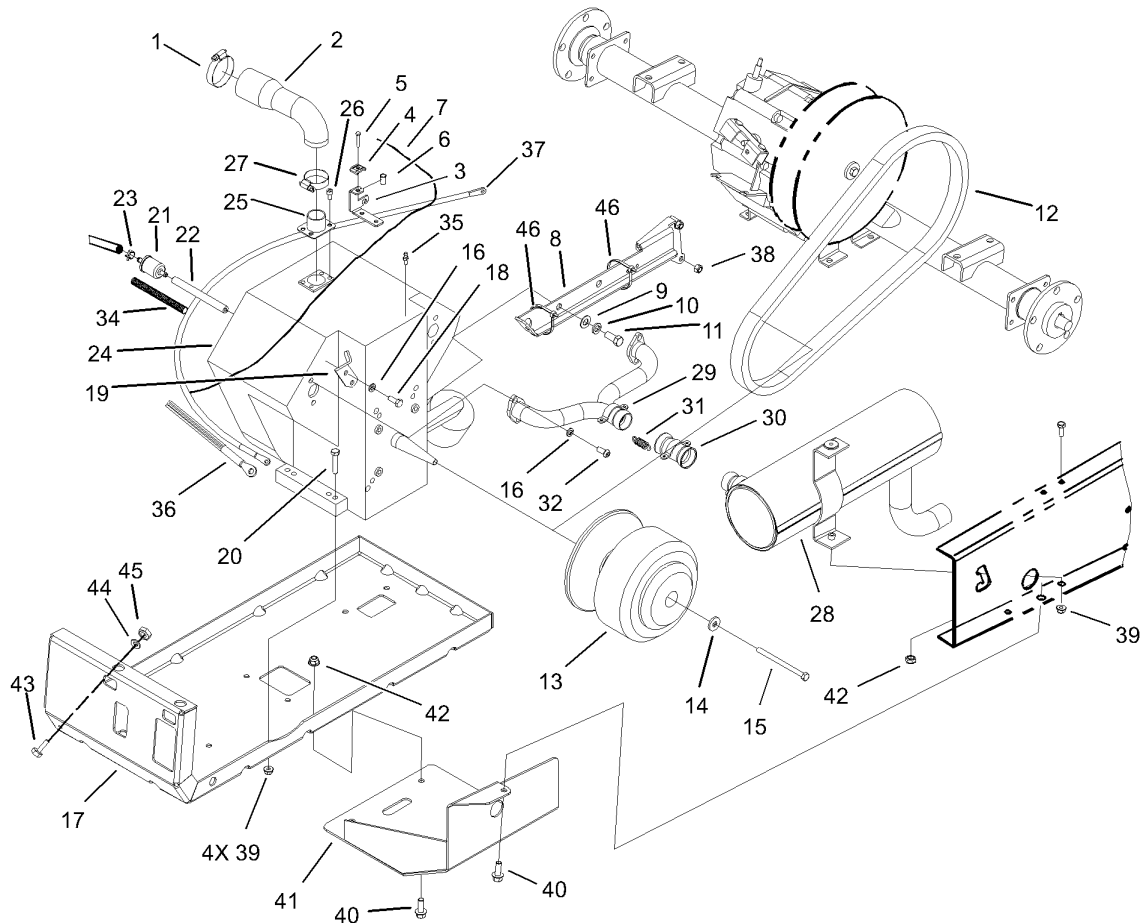
Box and Tailgate Installation Assembly

Ref	Part No.	Qty.	Description				
1		1	Box And Tailgate ASM				
2	99-7984	2	Knob-Soft Grip, Push-On				
3	87-8460	2	Bumper-Rubber				
6	104-7213	1	Decal				
14	3234-5	18	Screw				
15	99-7309-03	1	RH Pivot Bracket ASM				
17	99-7308-03	1	LH Pivot Bracket ASM				
18	3234-11	4	Screw-HHF				
19	99-7864-03	3	Brace-Box				
21	99-7870	1	Shield-Heat				
24	99-7895	1	Rod-Prop				
25	99-7894	1	Bracket-Rod, Prop				
26	3256-26	1	Washer-Flat				
27	32112-14	1	Nut-Push				
28	3234-17	2	Screw-HHF				
29	99-7896	1	Bracket-U, Prop Rod				
30	99-7745	1	Rod-Latch				
31	5-7290	1	Spring-Tension				
32	32148-7	2	Insert-Nut				
33	99-7744-03	1	Bracket-Latch				
34	99-7742-03	1	Hook-Latch, RH				
35	104-8300	1	Nut-Flange, NI				
36	104-6859	1	Shield-Heat				
40	104-7266	2	Decal-Bed				



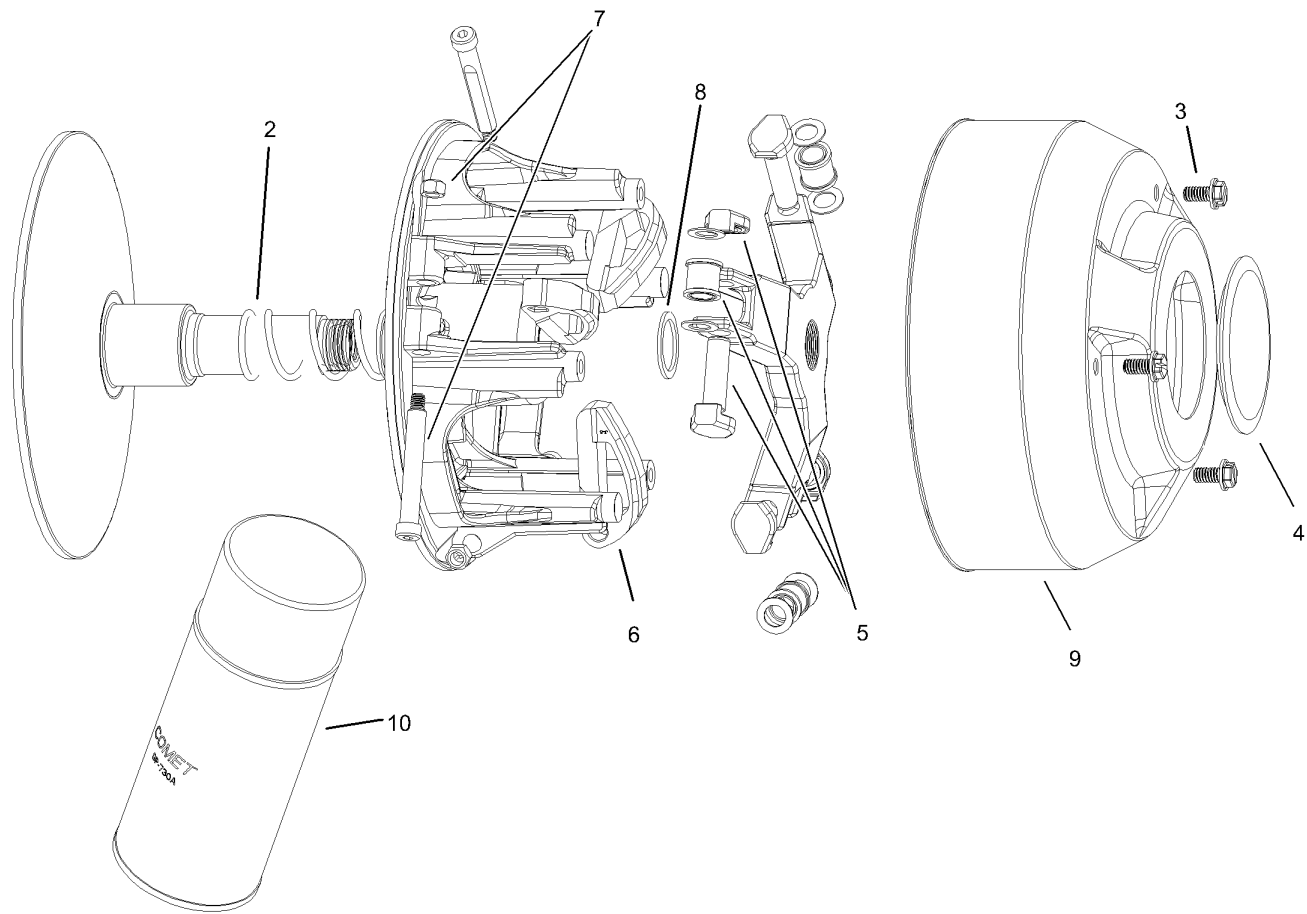
Box and Tailgate Assembly

Ref	Part No.	Qty.	Description				
1	99-7860	1	Rod-Latch, Right				
2	99-7858	1	Bracket-Tailgate Latch, Right				
3	99-7893	1	Tailgate ASM				
4	99-7334	10	Screw				
5	99-7852	2	Plate-Striker				
6	99-7859	1	Rod-Latch, Left				
7	99-7857	1	Bracket-Tailgate Latch, Left				
8	99-7335	4	Screw				
9	99-7861	4	Washer-Latch				
10	61-8880	2	Spring				
11	99-7286	2	Bracket-Pivot, Tailgate				
12	3234-5	10	Screw				
13	99-7867	1	Channel-Tailgate				
14	104-7203	1	Box ASM				
14:4	99-7954	1	Decal-Plate, No Riders				
14:5	3290-415	4	Rivet				



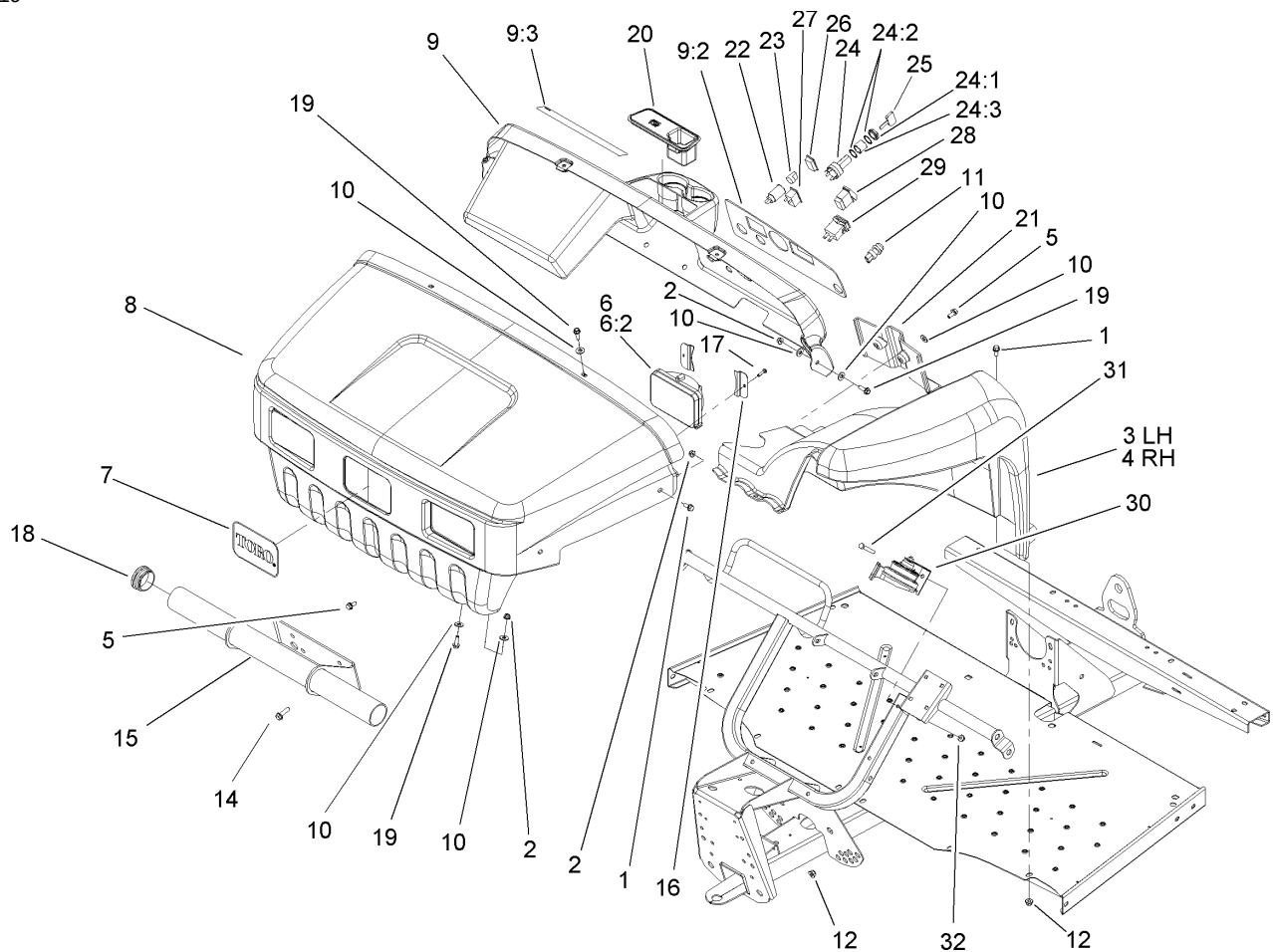
Engine and Clutch Assembly

Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
1	2412-130	1	Clamp-Hose	25	99-7083	1	Bracket-Intake
2	99-7106	1	Hose-Intake	26	99-7202	4	Screw
3	99-7097	1	Bracket-Cable	27	2412-3	1	Clamp-Hose
4	81-1690	1	Clamp-Cable	28	104-6475	1	Muffler-Engine
5	3290-432	1	Screw-HH	29	104-6476	1	Manifold-Engine
6	32148-14	1	Insert-Threaded	30	104-6477	1	Coupler-Exhaust
7	104-7169	1	Cable-Accelerator	31	104-6478	4	Spring-Coupler, Exhaust
8	104-6631-03	1	Torque Arm ASM	32	3274-96	4	Screw
9	3256-25	2	Washer-Flat	34	99-7377	1	Conduit-Line, Fuel
10	3253-6	2	Washer-Lock	35	99-7847	1	Ball-Stud
11	324-4	2	Screw-HH	36	99-7426	1	Harness-Wire, Engine
12	99-7144	1	Belt-Drive	37	28-3894	1	Positive Red Wire ASM
13	99-7939	1	Clutch-Drive	38	33024-00	2	Nut-Lock
14	5-0838	1	Washer	39	104-8300	5	Nut-Flange, NI
15	99-7201	1	Screw-HH	40	3234-11	3	Screw-HHF
16	3253-4	6	Washer-Lock	41	104-6408-03	1	Clutch-Guard
17	104-6433-03	1	Mount-Engine	42	104-8301	3	Nut-Flange, NI
18	66-3160	2	Screw-Cap	43	321-4	1	Screw-HH
19	104-7152	1	Bracket-Cable, Throttle	44	3255-8	1	Washer-Lock
20	322-8	4	Screw-HH	45	32128-32	1	Nut-HHF
21	94-2690	1	Filter-Fuel	46	3290-379	2	Tie-Cable
22	47-2966	1	Hose-Fuel				
23	2412-98	3	Clamp				
24	104-6649	1	Engine-B/s				



Drive Clutch Assembly No. 99-7939

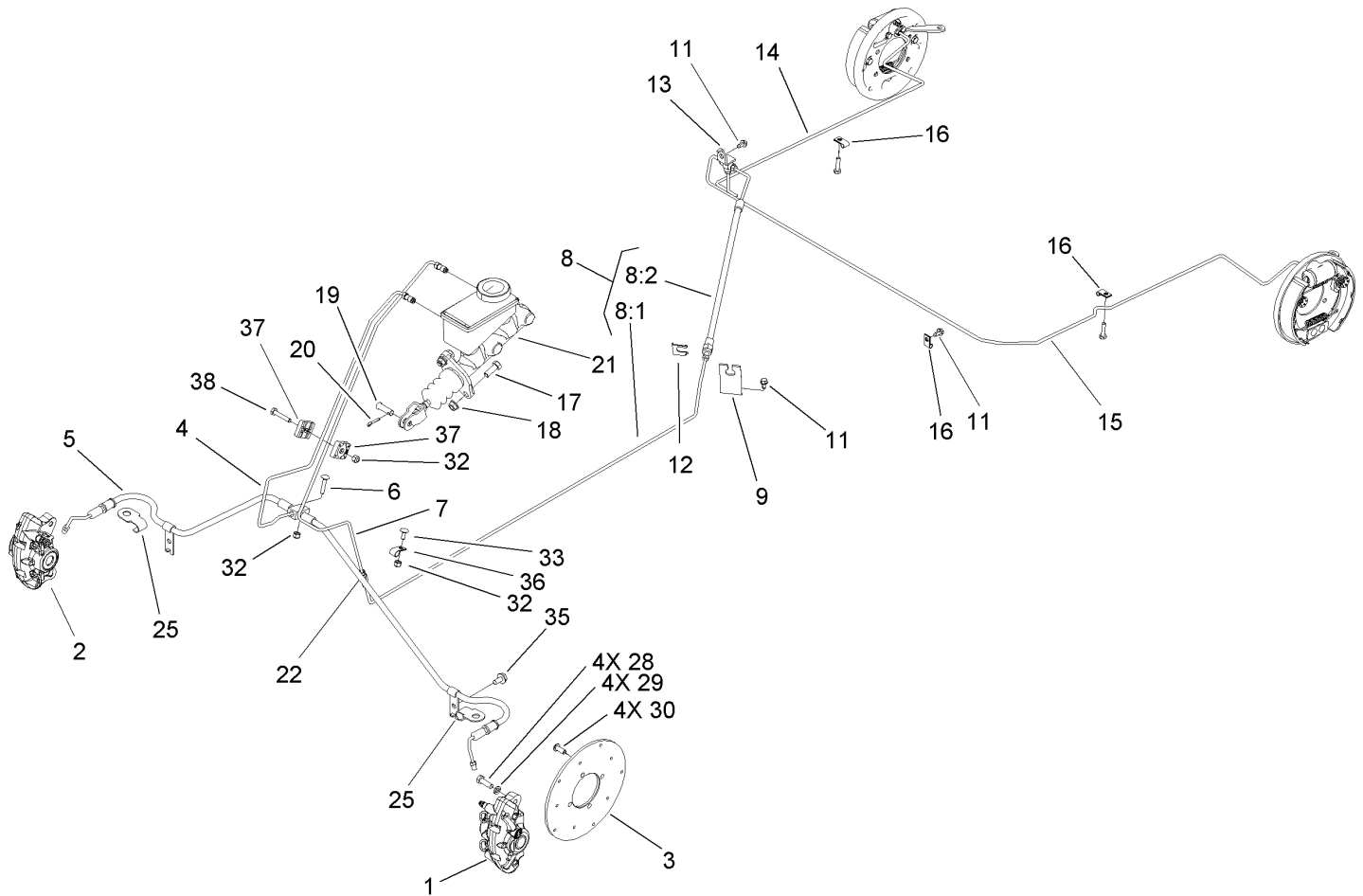
Ref	Part No.	Qty.	Description				
2	104-7046	1	Spring				
3	3234-26	3	Screw				
4	104-1690	1	Cap				
5	104-1697	1	Spider Roller Kit				
6	104-7141	1	Cam-Arm				
7	104-4256	1	Pivot Bolt And Nut Kit				
8	104-1687	1	Spacer				
9	104-1691	1	Cover				
10	104-7011	1	Lubricant-Dry				



Hood and Fender Assembly

Ref	Part No.	Qty.	Description
1	3234-5	12	Screw
2	104-8300	14	Nut-Flange, NI
3	104-7078	1	LH Fender ASM
4	104-7079	1	RH Fender ASM
5	104-7206	4	Screw Hfh
6	87-2120	2	Headlight
6:1	95-0909	1	Lamp-12 Volt
6:2	87-6330	1	Lens-Headlight
7	62-5550	1	Decal
8	99-7379	1	Hood ASM
9	107-0705	1	Dash ASM (Service) Twister 1600
9:2	107-0704	1	Decal-Warning, Dash, Vehicle (Ce)
9:3	99-7344	1	Decal-Danger
10	3256-3	10	Washer-Flat
11	18-2830	1	Button-Horn
12	104-8301	6	Nut-Flange, NI
14	32144-67	4	Screw
15	99-7840-03	1	Bumper-Tube
16	99-7947	4	Bracket-Headlight
17	99-7331	4	Screw-HWH
18	2410-42	2	Cap-End
19	3234-17	6	Screw-HHF
20	104-6930	1	Plug-Rubber
21	104-7075	1	Cover-Channel

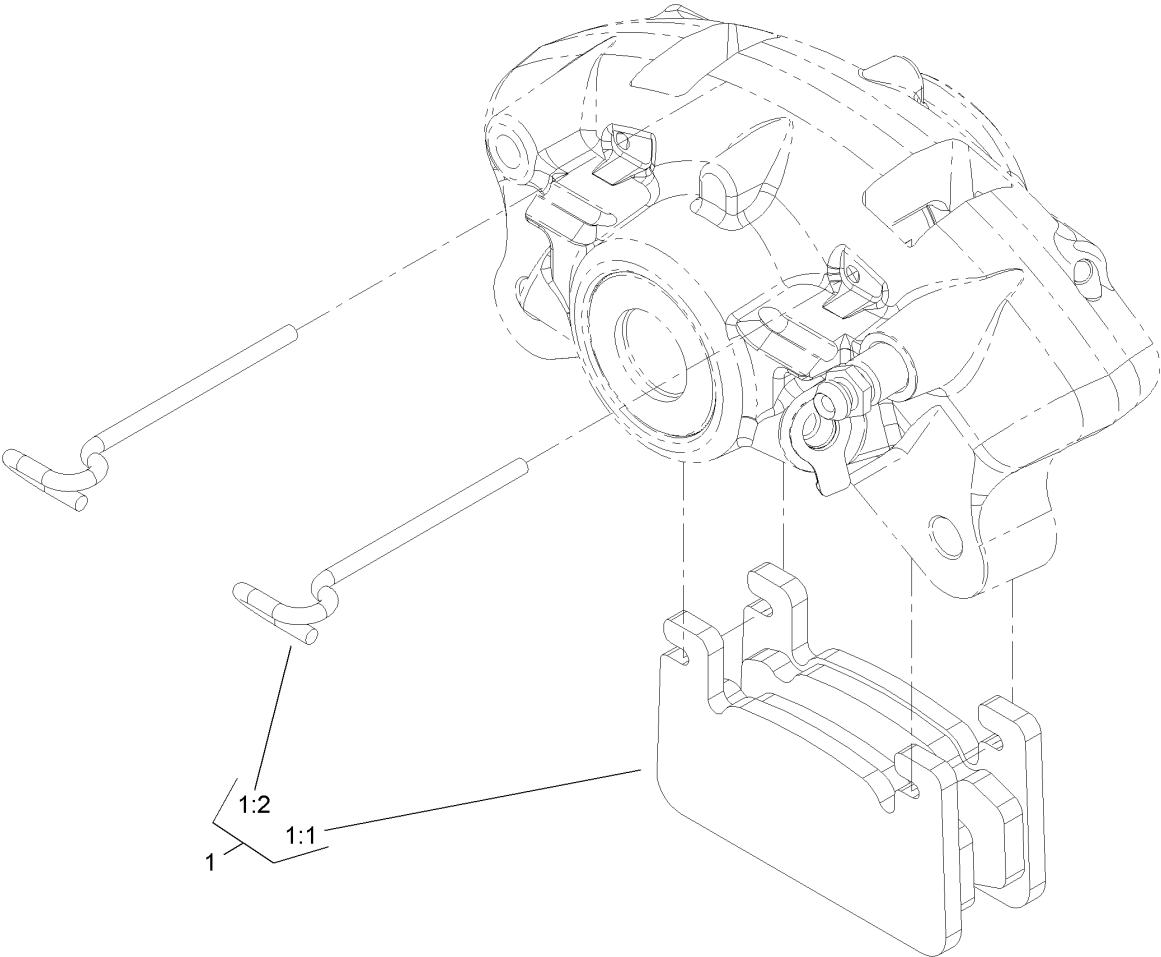
Ref	Part No.	Qty.	Description
22	99-7411	1	Point-Power
23	99-7416	1	Cap
24	104-6929	1	Switch-Ignition
24:1	104-7042	1	Nut-Switch, Plastic
24:2	104-7019	2	Washer-Lock, Internal
24:3	104-7021	1	Spacer-Switch
25	99-7418	2	Key-Ignition
26	99-7420	1	Plug-Hole
27	99-7410	1	Light-Oil
28	95-8999	1	Switch
29	94-4208	1	Hourmeter
30	116749	1	Horn
31	322-11	1	Screw-HH
32	104-8300	1	Nut-Flange, NI



Hydraulic Brake Assembly

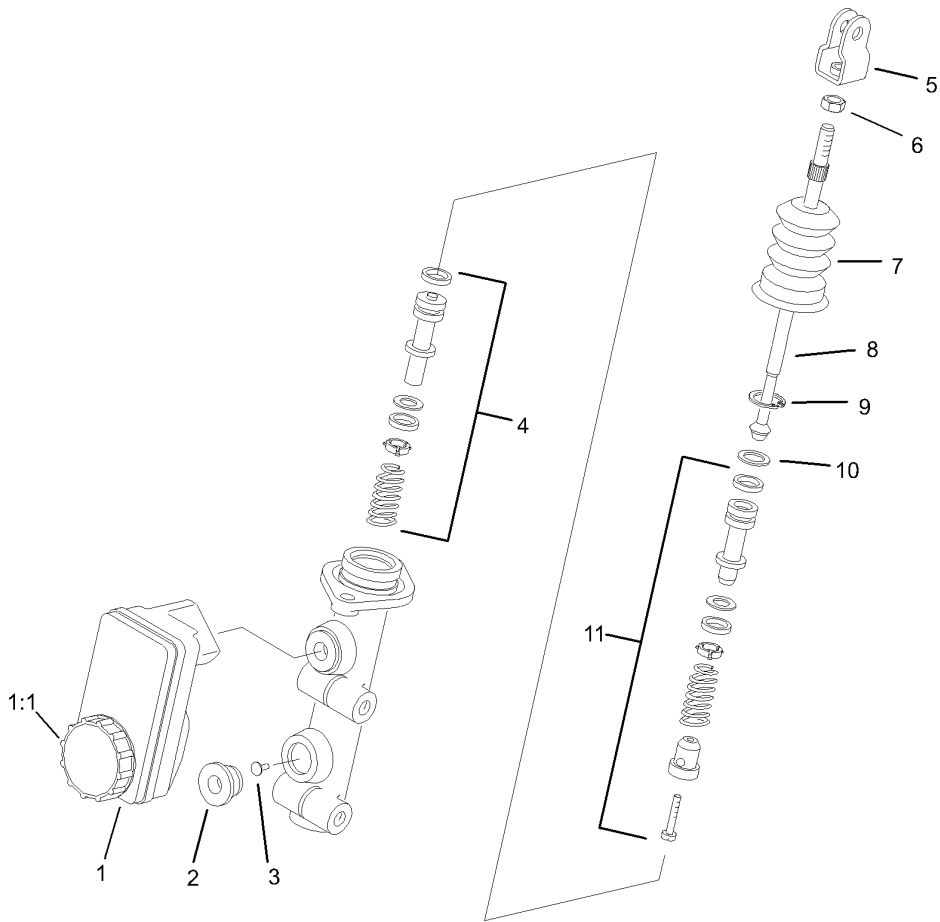
Ref	Part No.	Qty.	Description
1	107-0361	1	Caliper, LH
2	107-0362	1	Caliper, RH
3	104-6891	2	Rotor
4	104-6798	1	Tube-Front, Brake
5	104-7256	1	Hose Asm, Front
6	3229-3	1	Screw-CARR
7	104-6793	1	Tube-Brake, Rear
8		1	Complete Rear Brake Hose ASM
8:1	104-6794	1	Tube-Brake, Rear
8:2	104-6795	1	Hose-Brake, Rear
9	104-6799	1	Bracket-Hose, Brake
11	12-3270	3	Screw
12	104-7092	1	Clip
13	87-3560	1	Tee
14	104-6796	1	Tube-Brake Rear, RH
15	104-6797	1	Tube-Brake Rear, LH
16	2412-72	3	Clip-Closed, Insulated
17	323-6	2	Screw-HH
18	3290-357	2	Nut-HHF
19	283-2	1	Pin-Clevis
20	3272-10	1	Pin-Cotter
21	104-6782	1	Cylinder-Master
22	87-3570	1	Union
25	104-7073	2	Bracket-Hose

Ref	Part No.	Qty.	Description
28	323-6	4	Screw-HH
29	3253-21	4	Washer-Lock
30	3274-55	8	Screw-HSBH
32	3296-42	3	Nut-Lock, NI
33	3229-11	1	Screw-CARR
35	32144-14	2	Screw-HWH
36	2412-89	1	Clamp
37	87-7660	2	Clamp-Tube
38	321-9	1	Screw-HH



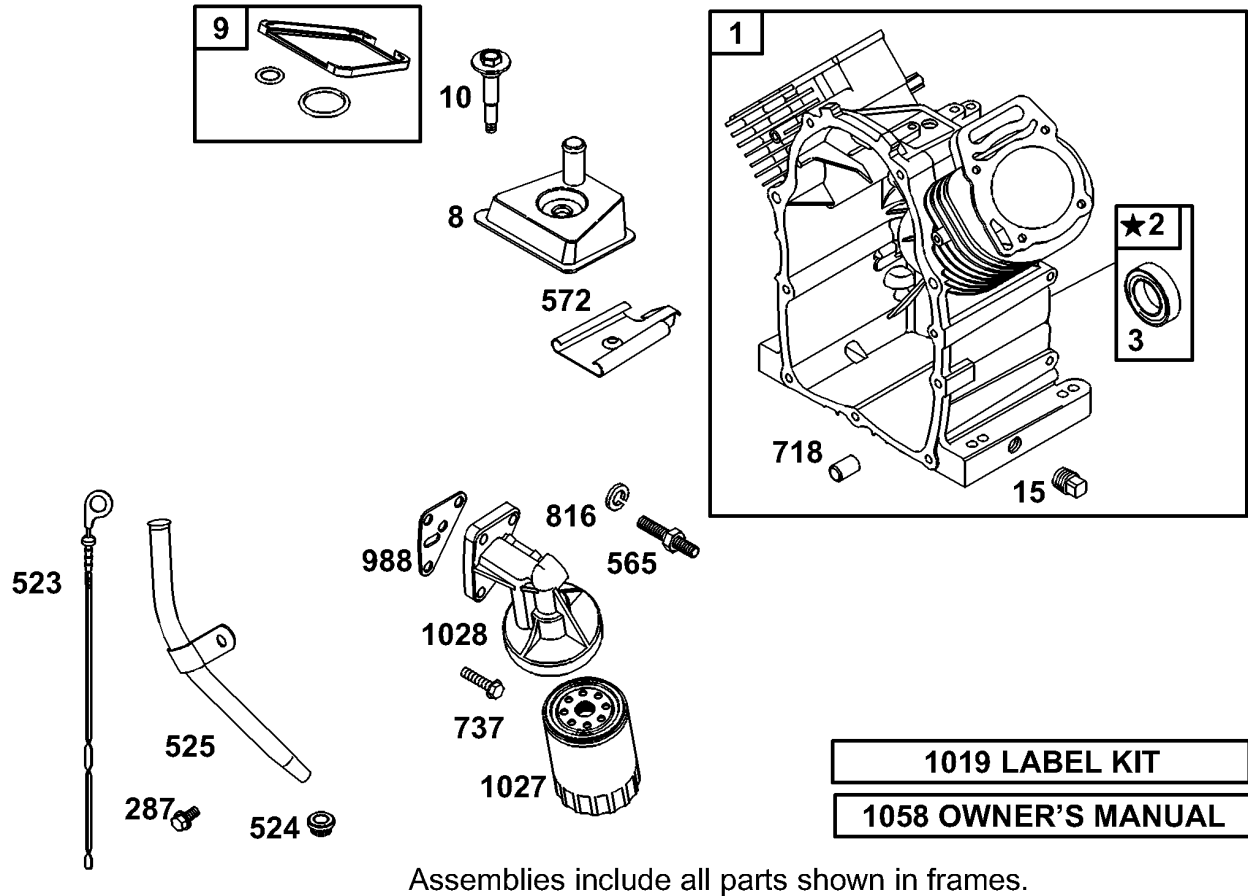
Caliper Assembly

Ref	Part No.	Qty.	Description				
1	107-0708	1	Friction Pad And Pin Kit				
2 1:1		2	Brake Pad ASM				
2 1:2		2	Pin				
PROTOTYPE							



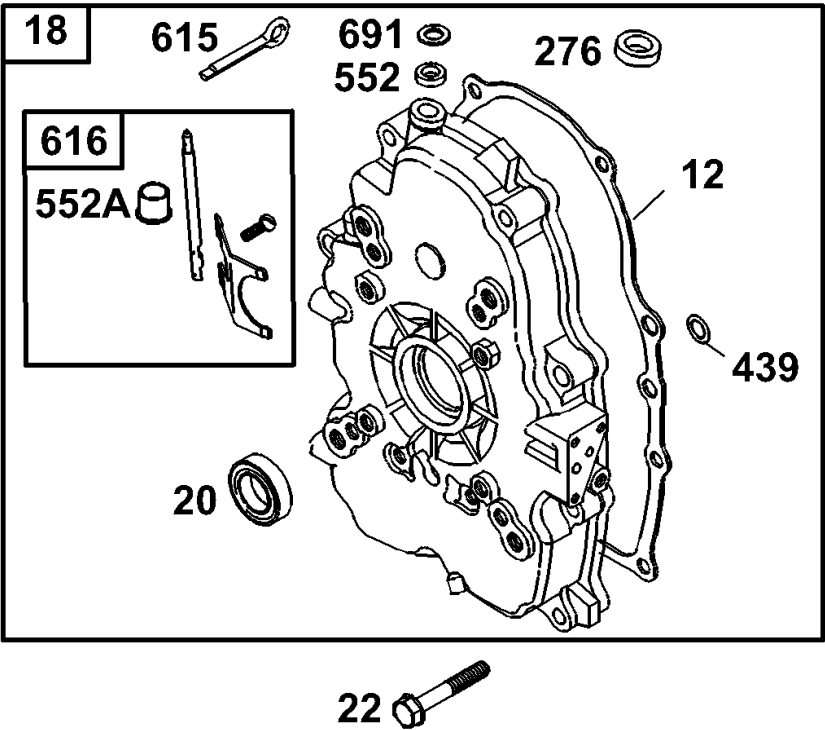
Master Cylinder Assembly No. 104-6782

Ref	Part No.	Qty.	Description				
1	104-6845	1	Reservoir ASM				
1:1	92-4112	1	Cap ASM				
2	93-8971	2	Seal-Port, Flange				
3	92-4103	1	Pin-Stop				
4	92-4102	1	Secondary Piston ASM				
5	92-4110	1	Clevis				
6	21-0360	1	Nut-Hex				
7	94-5209	1	Cover-Dust				
8	94-5210	1	Rod-Push				
9	92-4109	1	Circlip				
10	92-4108	1	Retainer-Washer				
11	92-4101	1	Primary Piston ASM				



Cylinder, Oil Filter and Dipstick Assembly

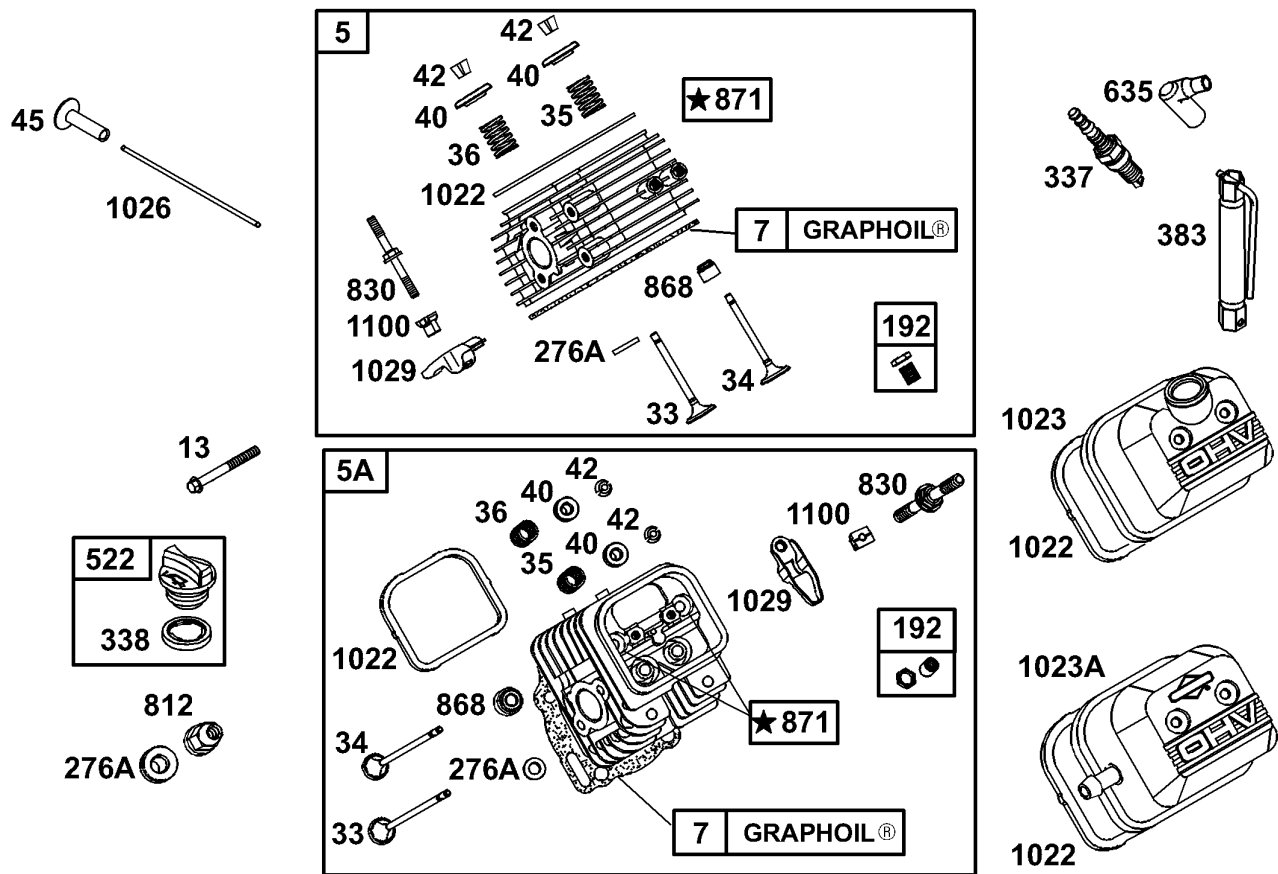
Ref	Part No.	Qty.	Description
1	692178	1	Cylinder Assembly
2	808534	1	Bushing
3	805101	1	Seal-Oil
8	808984	1	Assembly-Breather
9	807893	1	Breather Gasket
10	690751	1	Screw (Breather Assembly)
15	690946	1	Plug-Oil Drain
287	692062	1	Screw (Drive Cap)
523	693175	1	Dipstick
524	693172	1	Seal-Fill Tube
525	693173	1	Tube-Dipstick
565	690682	1	Stud (Oil Filter)
572	690686	1	Baffle-Breather
718	690684	1	Pin-Locating
737	690679	1	Bolt (Oil Pump)
816	690706	1	Washer
988	692063	1	Oil Adapter Gasket
1019	808036	1	Kit-Label
1027	492932	1	Filter-Oil
1028	808235	1	Adapter-Oil Filter
1058	274790	1	Owner-S Manual(Emission Engines)



Assemblies include all parts shown in frames.

Crankcase Assembly

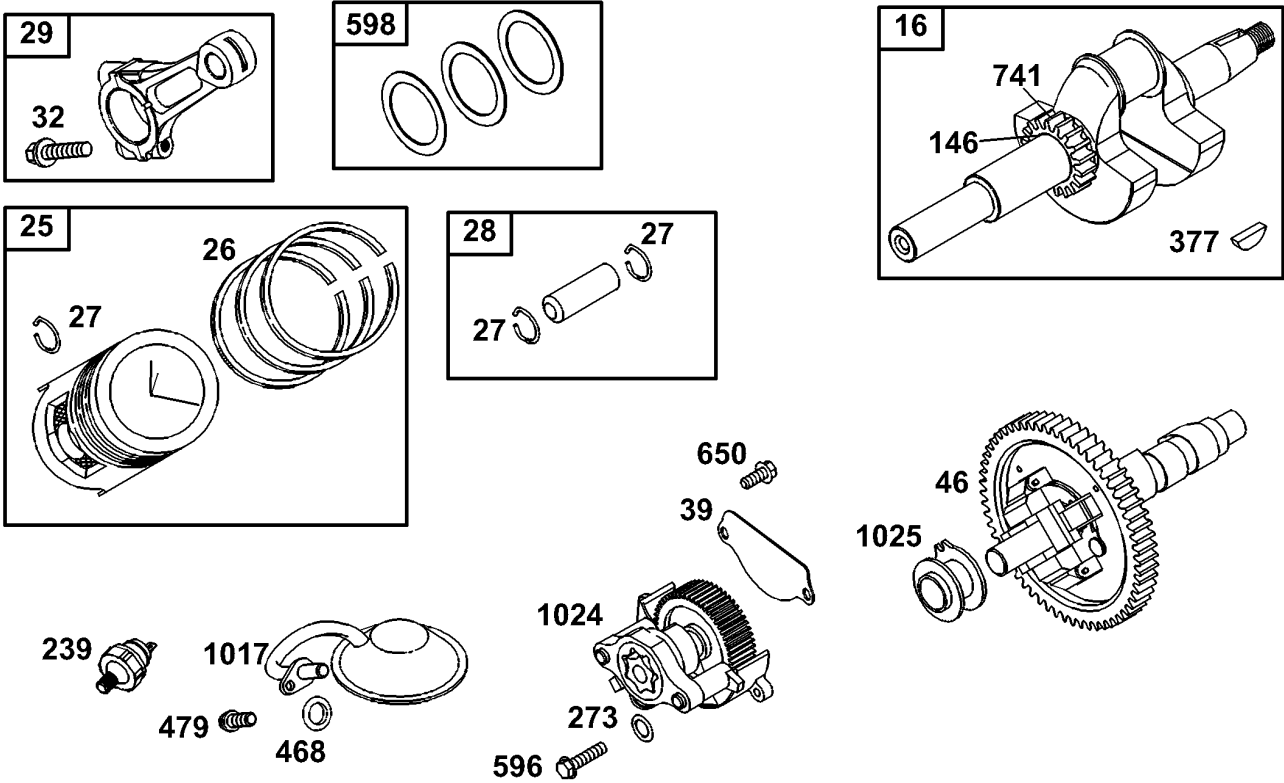
Ref	Part No.	Qty.	Description				
12	691684	1	Crankcase Gasket				
18	808847	1	Cover-Crankcase				
20	805049	1	Seal-Oil				
22	692540	1	Screw				
276	690704	1	Washer-Sealing				
439	692154	1	O-Ring (Crankcase Cover)				
552	690701	1	Bushing-Governor Crank				
552A	806686	1	Bushing-Governor Crank				
615	691550	1	Pin-Cotter				
616	806685	1	Fork-Governor				
691	690680	1	Seal-Governor Shaft				



Assemblies include all parts shown in frames.

Cylinder Head and Cover Assembly

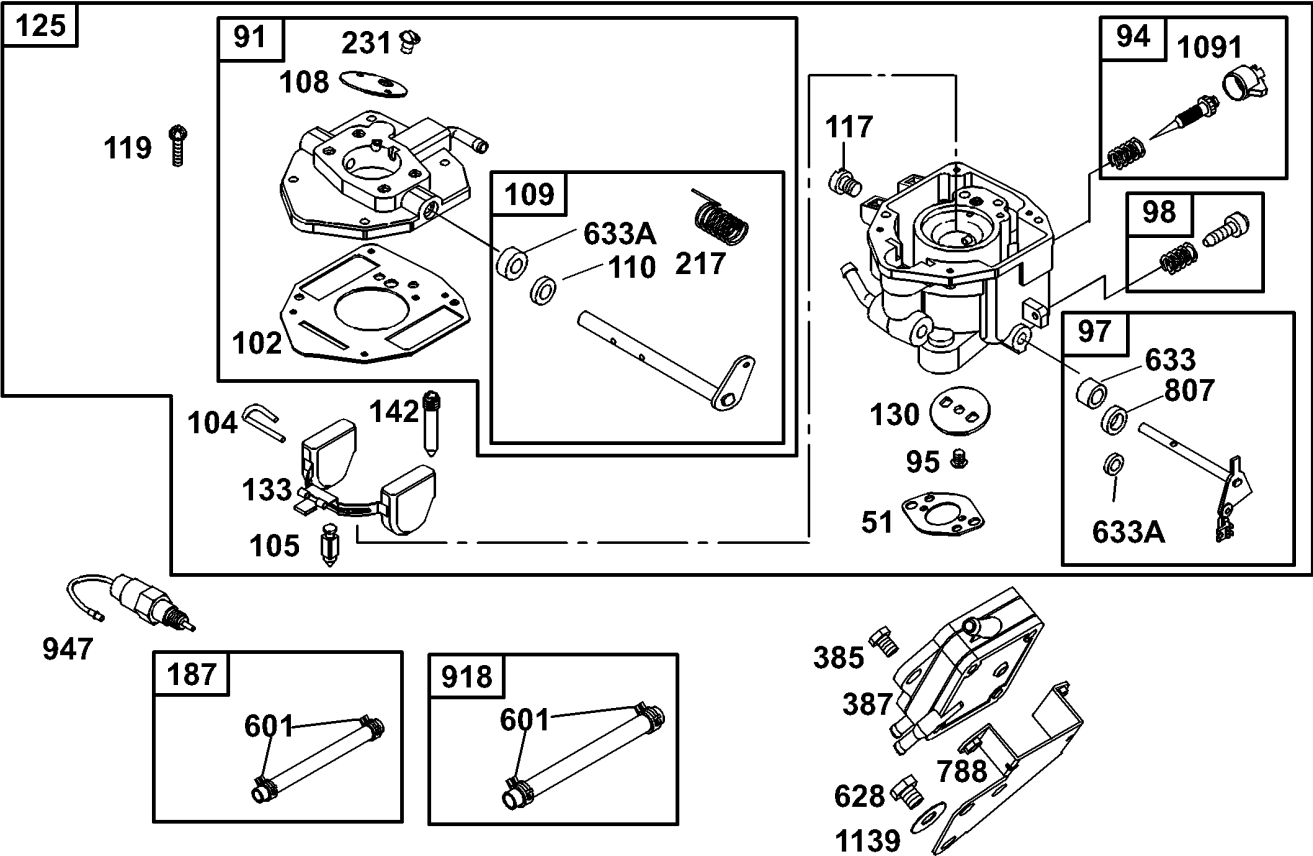
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
5	808381	1	Head-Cylinder (Cylinder No. 1)	1023A	691558	1	Cover-Valve
5A	808382	1	Head-Cylinder (Cylinder No. 2)	1026	691836	1	Rod-push(Intake Valve)
③④7	806085	1	Gasket-Cylinder Head		691758	1	Rod-push(Exhaust Valve)
13	692059	1	Cylinder Head Screw	1029	691543	1	Arm-Rocker
33	807681	1	Valve-Exhaust	1100	690973	1	Pivot-Rocker Arm
34	807680	1	Valve-Intake				
35	692084	1	Spring-valve(Intake)				
36	692084	1	Spring-valve(Intake)				
40	692058	1	Retainer-Valve				
42	807683	1	Keeper-Valve				
45	690977	1	Tappet-Valve				
192	807623	1	Screw				
③④276A	691766	1	Sealing Washer				
337	491055	1	Plug-Spark				
③④338	691312	1	Gasket-Dipstick				
383	19374	1	Wrench-Sparkplug				
522	491832	1	Plug-Oil Filler				
635	692076	1	Boot-Sparkplug				
812	692055	1	Nut (Air Cleaner)				
830	691544	1	Stud-Rocker Arm				
③④868	691963	1	Seal-Valve				
871	692057	1	Valve Guide				
③④1022	806039	1	Gasket-Valve Cover				
1023	690758	1	Cover-Valve				



Assemblies include all parts shown in frames.

Crankshaft, Piston and Oil Pump Assembly

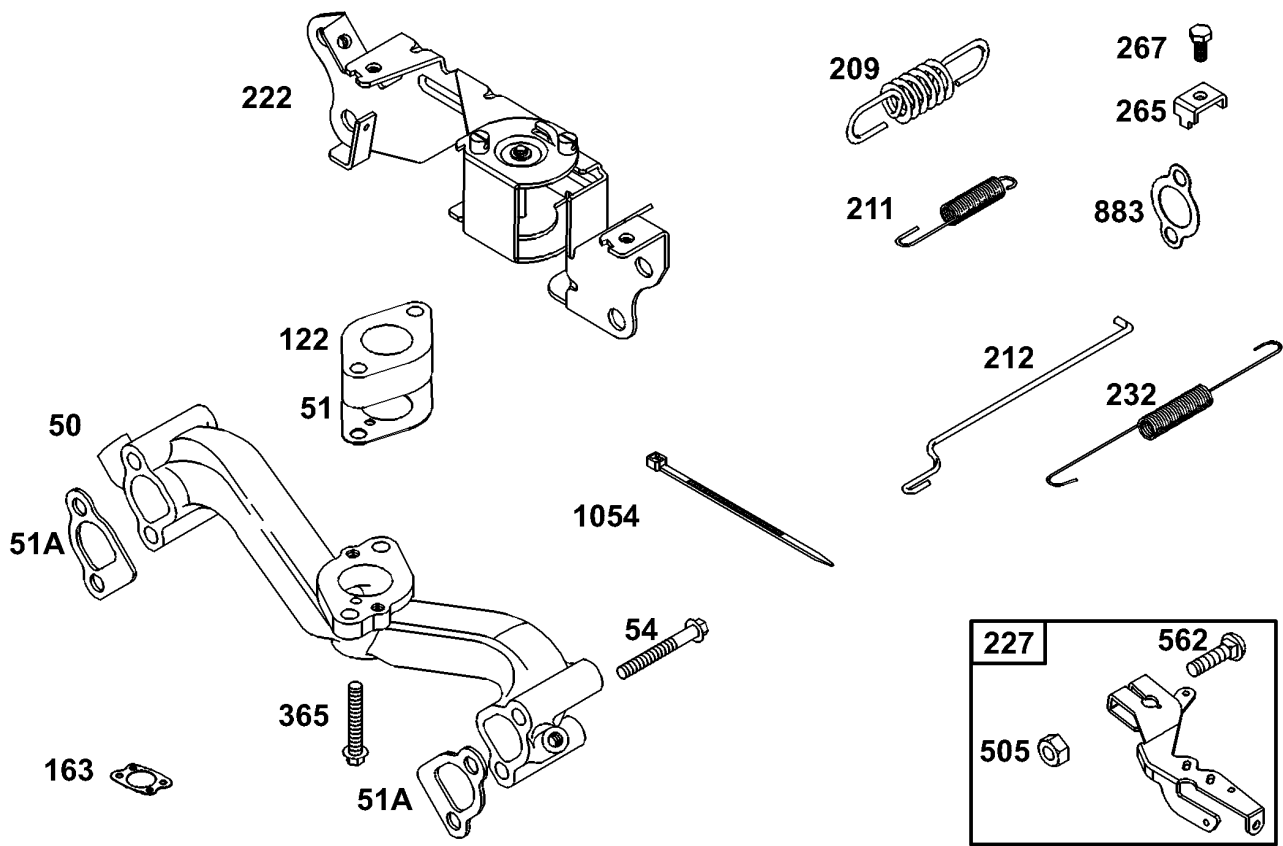
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
16	692163	1	Crankshaft	650	692539	1	Screw
25	807619	1	Piston Assembly (Standard)	741	691530	1	Gear-Timing
	807807	1	Piston Assembly .010 O.s.	1017	690900	1	Screen-Oil Pump
	807809	1	Piston Assembly .020 O.s.	1024	693185	1	Pump-Oil
	807811	1	Piston Assembly .030 O.s.	1025	690689	1	Spool-Governor
26	807620	1	Ring Set (Standard)				
	807808	1	Ring Set (.010" O.s.)				
	807810	1	Ring Set (.020" O.s.)				
	807812	1	Ring Set (.030" O.s.)				
27	690683	1	Lock-Piston Pin				
28	807621	1	Pin-Piston				
29	807900	1	Rod-Connecting				
	807809	1	Piston Assembly .020 O.s.				
32	690698	1	Screw				
39	690745	1	Deflector-Oil				
46	691557	1	Camshaft				
146	691639	1	Key-Timing				
239	690233	1	Oil Pressure Switch				
273	690681	1	Seal-O Ring (Oil Pump)				
377	808095	1	Key-Timing				
468	690690	1	Screw				
479	692537	1	Screw				
596	691492	1	Screw				
598	807625	1	Washer Set				



Assemblies include all parts shown in frames.

Carburetor and Fuel Pump Assembly

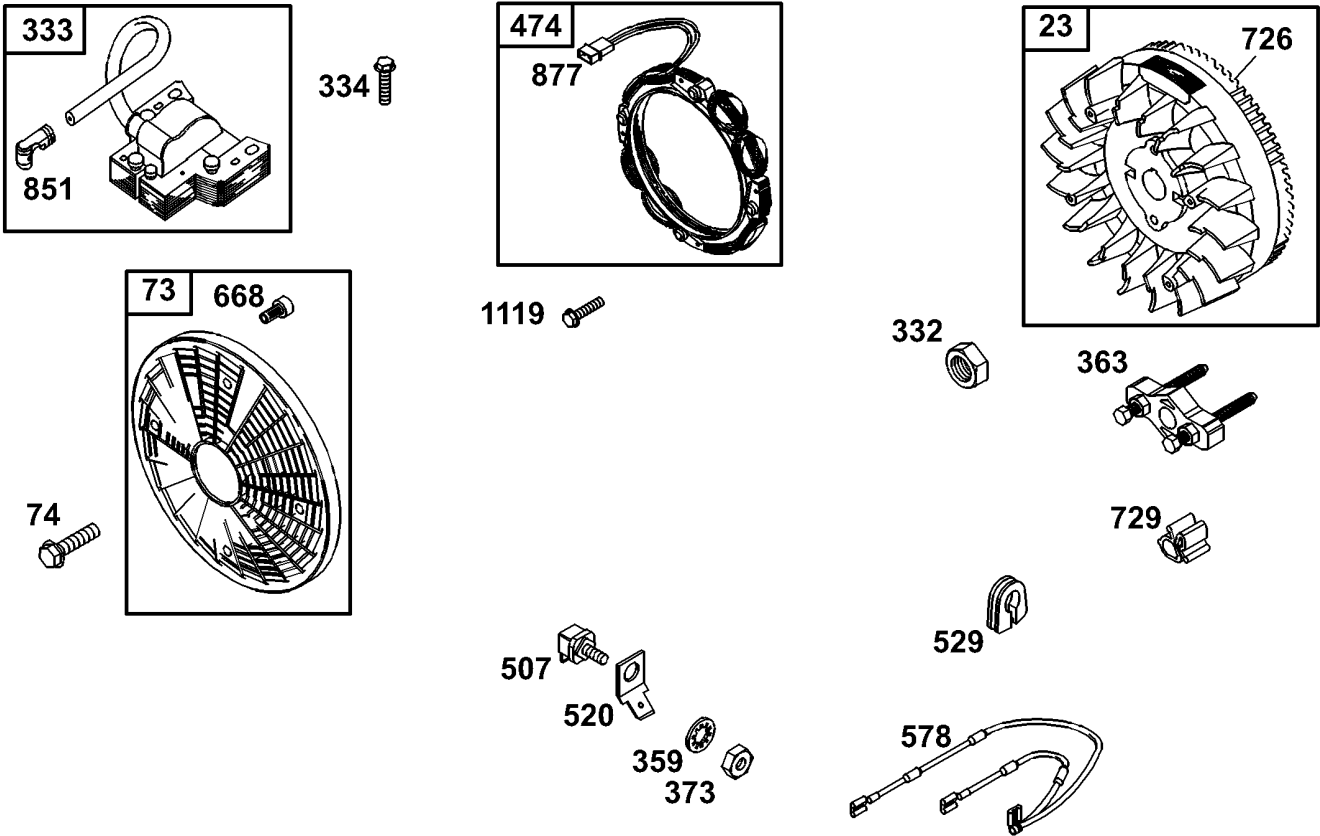
Ref	Part No.	Qty.	Description	Ref	Part No.	Qty.	Description
51	691694	1	Gasket-Intake	628	806660	1	Screw(Fuel Pump Bracket)
91	808964	1	Body-Upper Carburetor	633	806131	1	Seal-Shaft
94	808257	1	Idle Mixture Kit	633A	690722	1	Seal-Choke Shaft
95	690718	1	Screw (Throttle Valve)	788	691559	1	Bracket-Pump
97	809007	1	Shaft-Throttle	807	805557	1	Collar-Throttle
98	808177	1	Screw	918	393815	1	Hose-Fuel
102	692077	1	Gasket-Carburetorbody	947	692094	1	Fuel Solenoid
104	690723	1	Pin-Float Hinge	1091	691516	1	Cap-Limiter
105	692078	1	Float Needle Valve	1139	806497	1	Washer(Fuel Pump Bracket)
108	690719	1	Valve-Choke				
109	809062	1	Shaft-Choke				
110	806861	1	Choke Shaft Washer				
117	806986	1	Jet-Main				
119	690720	1	Screw				
125	809092	1	Carburetor				
130	690726	1	Valve-Throttle				
133	806961	1	Float-Carburetor				
142	806987	1	Nozzle-Carburetor				
187	691050	1	Line-Fuel (Cut To Required Length)				
217	806862	1	Choke Return Spring				
231	690718	1	Screw (Throttle Valve)				
385	693169	1	Screw (Fuel Pump)				
387	808656	1	Fuel Pump				
601	691038	1	Clamp-Hose				



Assemblies include all parts shown in frames.

Manifold Intake and Governor Control Assembly

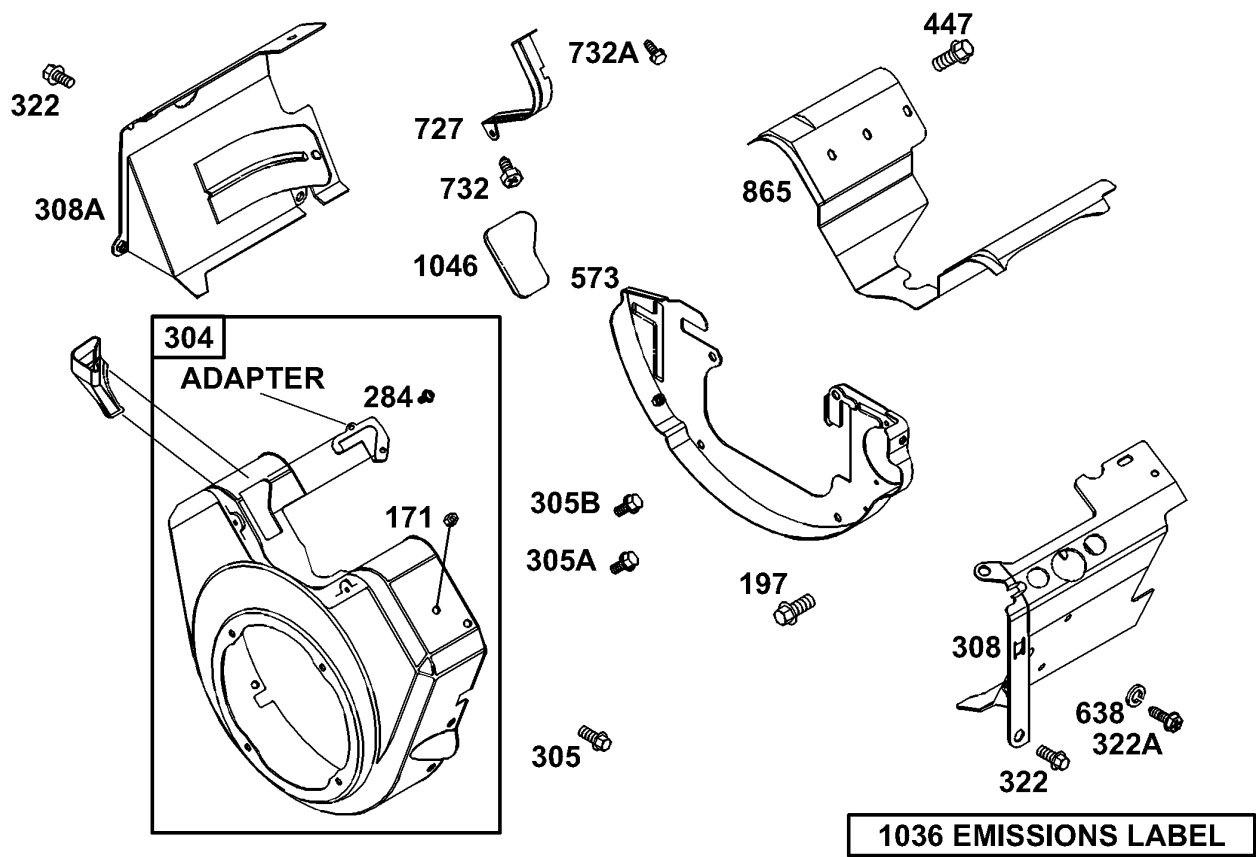
Ref	Part No.	Qty.	Description				
50	690754	1	Manifold-Intake				
51	691694	1	Gasket-Intake				
51A	692035	1	Gasket-Intake				
54	690676	1	Screw				
122	690691	1	Spacer-Carburetor				
163	692081	1	Air Cleaner Gasket				
209	691507	1	Spring-Governor				
211	691553	1	Spring-Governed Idle				
212	690712	1	Link-Governor				
222	691570	1	Bracket-Control				
227	690236	1	Lever-Governor Control				
232	692073	1	Governor Link Spring				
265	691024	1	Clamp-Casing				
267	692083	1	Screw				
505	690238	1	Nut (Governor Control Lever)				
562	690239	1	Bolt-Carriage				
883	691613	1	Exhaust Gasket				
1054	280275	1	Cable Tie				



Assemblies include all parts shown in frames.

Alternator Assembly

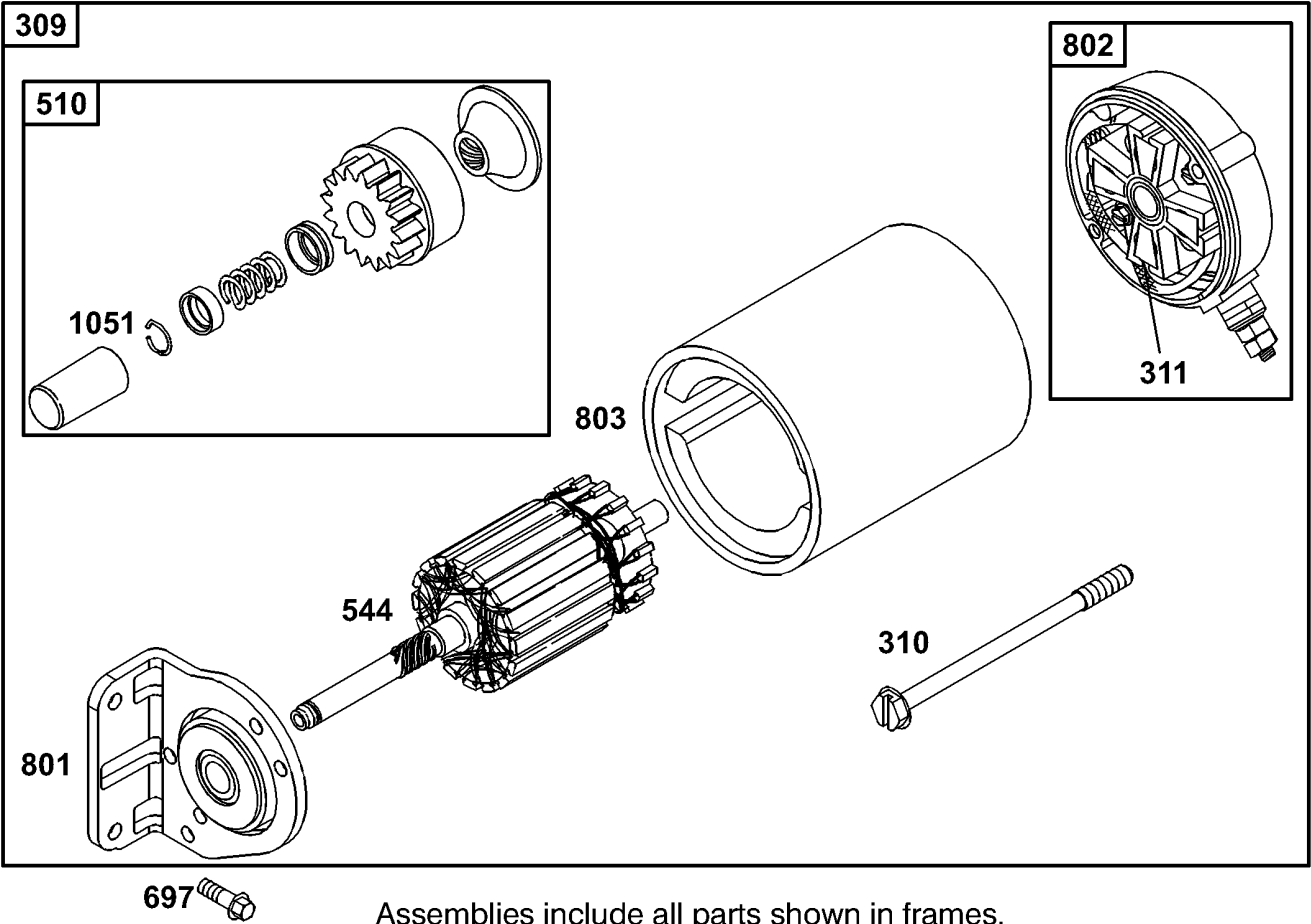
Ref	Part No.	Qty.	Description				
23	808766	1	Flywheel				
73	494439	1	Screen-Rotating				
74	691647	1	Screw (Rotating Screen)				
171	810056	1	Nut (Air Cleaner)				
284	93410	1	Screw				
332	690887	1	Nut				
333	492341	1	Armature-Magneto				
334	692066	1	Screw (Magneto Armature)				
359	691077	1	Washer (Groundterminal)				
363	19203	1	Puller-Flywheel				
373	691612	1	Nut (Ground Terminal)				
474	691064	1	Alternator				
507	691972	1	Insulator				
520	691084	1	Terminal-Spade				
529	690744	1	Grommet				
578	692319	1	Wire Assembly				
668	691500	1	Spacer				
726		1	Gear-Ring (See Reference 23 For Service)				
729	690586	1	Clip-Wire				
851	493880	1	Terminal-Spark Plug				
877	399916	1	Alternator Harness				
1119	691552	1	Screw				



Assemblies include all parts shown in frames.

Blower Housing and Cover Assembly

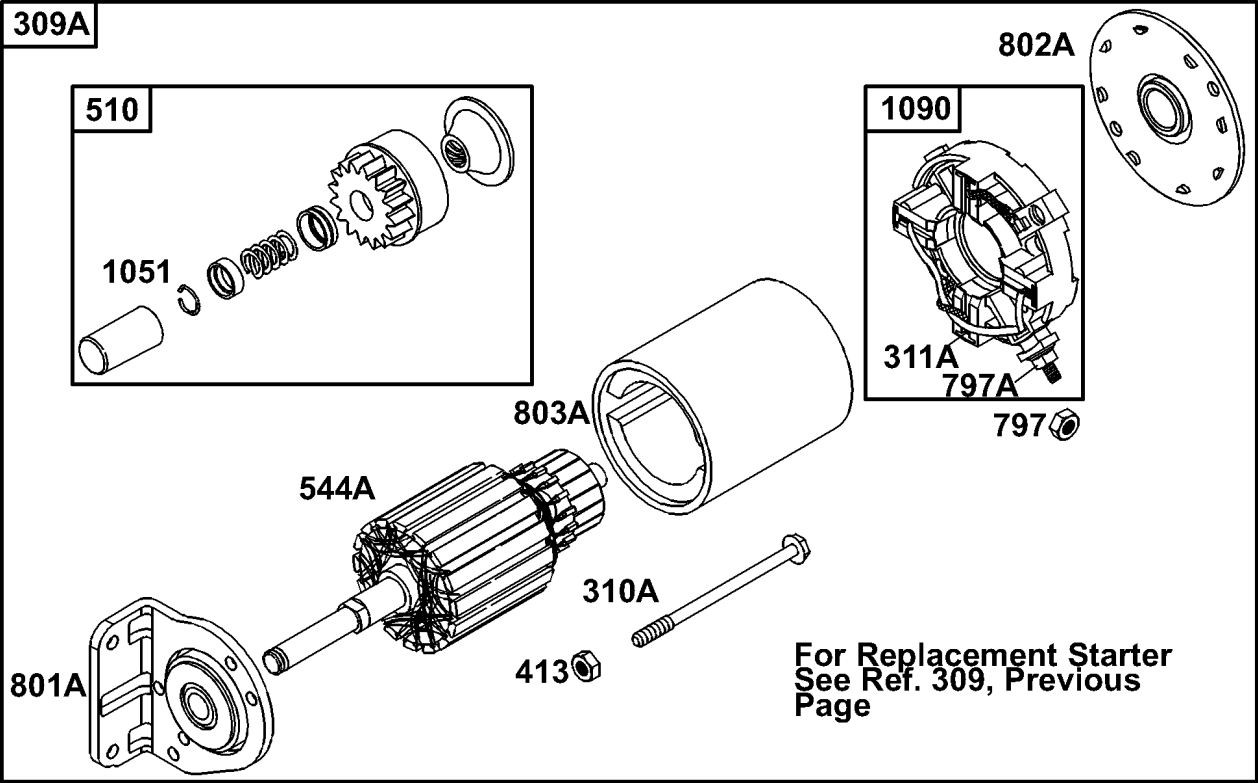
Ref	Part No.	Qty.	Description
197	692539	1	Screw
304	808408	1	Housing-Blower
305	692539	1	Screw
305A	692056	1	Screw (Blower Housing)
305B	692062	1	Screw (Drive Cap)
308	806547	1	Cylinder Head Cover (Cyl. #1)
308A	806546	1	Cylinder Head Cover (Cyl. #2)
322	692539	1	Screw
322A	692067	1	Screw (Regulator)
447	692539	1	Screw
573	690902	1	Back Plate
638	691551	1	Washer-Lock
727	690714	1	Shield-Starter
732	690688	1	Screw (Flywheel Guard)
732A	692539	1	Screw
865	690750	1	Cover-Air Guide
1036	806881	1	Label-Emission
1046	692082	1	Blower Housing Plug



Assemblies include all parts shown in frames.

Starter Motor Assembly

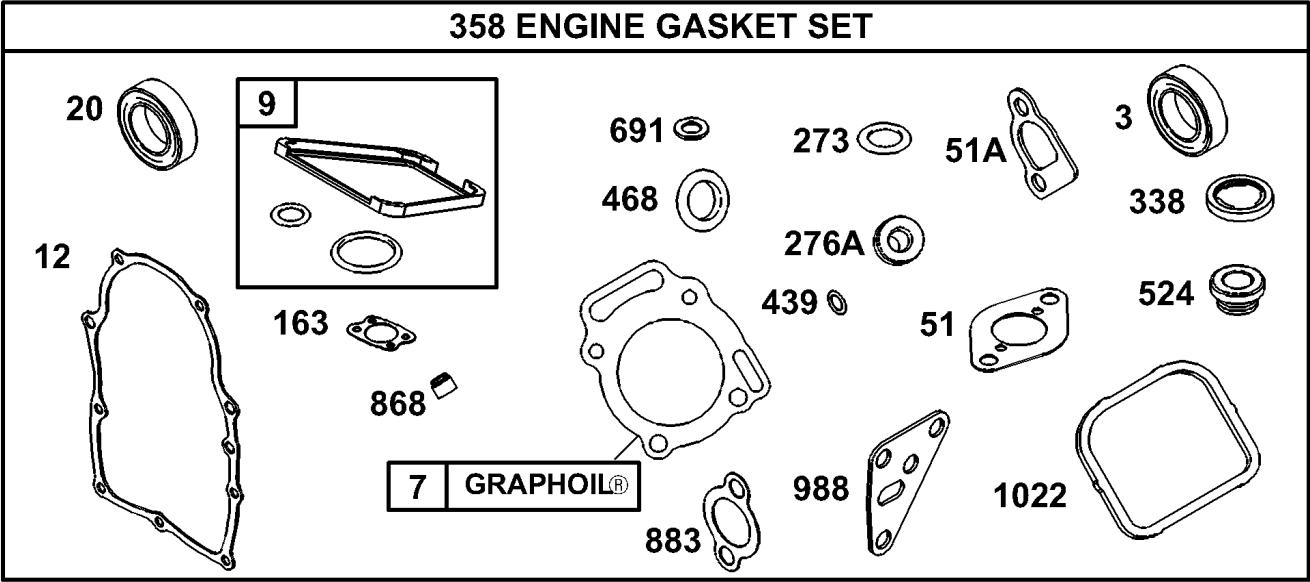
Ref	Part No.	Qty.	Description				
309	691564	1	Motor-Starter				
310	496880	1	Bolt-Thru				
311	496887	1	Brush Set				
510	496881	1	Drive-Starter				
544	690855	1	Armature-Starter				
697	692062	1	Screw (Drive Cap)				
801	808777	1	Cap-Drive				
802	496813	1	Bolt				
803	690854	1	Housing-Starter				
1051	691124	1	Lock Ring				



Assemblies include all parts shown in frames.

Replacement Starter Motor Assembly

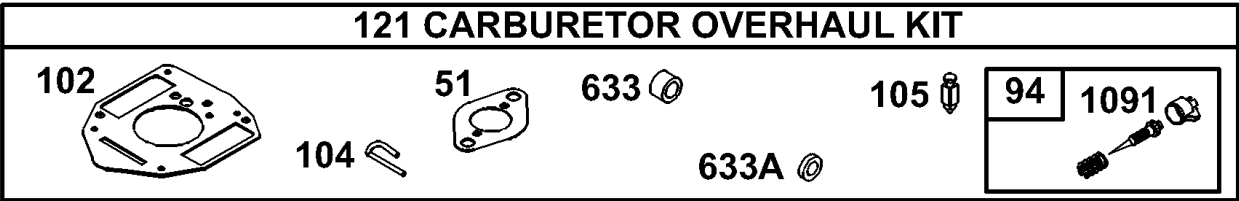
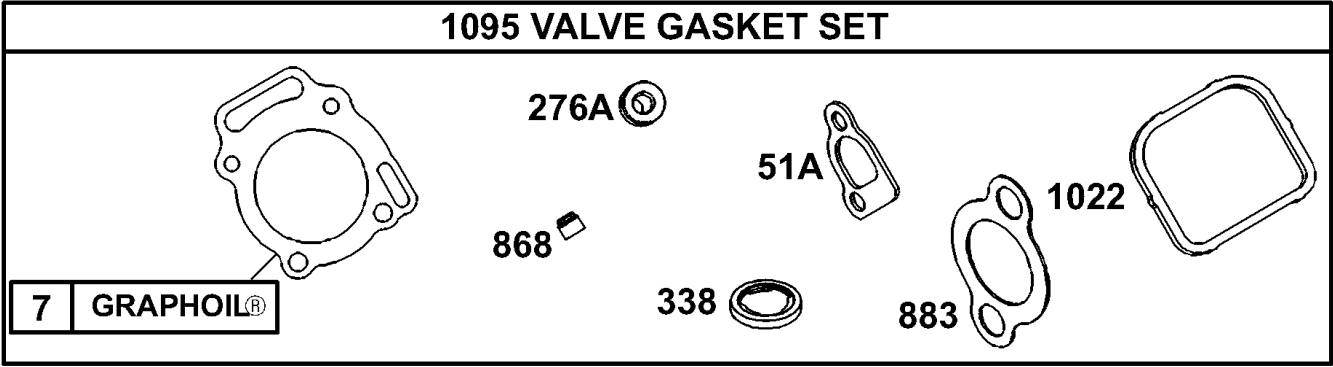
Ref	Part No.	Qty.	Description				
309A		1	Motor-Starter (For Replacement Starter, See Ref. 309, Previous Page)				
310A	690323	1	Bolt (Starter Motor)				
311A	497608	1	Brush Set				
413	693587	1	Nut (Starter Motor)				
510	496881	1	Drive-Starter				
544A	693548	1	Armature-Starter				
697	692062	1	Screw (Drive Cap)				
797	691029	1	Nut (Brush Retainer)				
797A	693167	1	Nut (Brush Retainer)				
801A	808778	1	Cap-Drive				
802A	691286	1	Cap-End				
803A	693547	1	Housing-Starter				
1051	691124	1	Lock Ring				
1090	691293	1	Retainer-Brush				



Assemblies include all parts shown in frames.

Engine Gasket Set

Ref	Part No.	Qty.	Description				
3	805101	1	Seal-Oil				
47	806085	1	Gasket-Cylinder Head				
9	807893	1	Breather Gasket				
12	691684	1	Crankcase Gasket				
20	805049	1	Seal-Oil				
51	691694	1	Gasket-Intake				
451A	692035	1	Gasket-Intake				
163	692081	1	Air Cleaner Gasket				
273	690681	1	Seal-O Ring (Oil Pump)				
4276A	691766	1	Sealing Washer				
4338	691312	1	Gasket-Dipstick				
358	808390	1	Gasket Set				
439	692154	1	O-Ring (Crankcase Cover)				
468	690690	1	Screw				
524	693172	1	Seal-Fill Tube				
691	690680	1	Seal-Governor Shaft				
4868	691963	1	Seal-Valve				
4883	691613	1	Exhaust Gasket				
988	692063	1	Oil Adapter Gasket				
41022	806039	1	Gasket-Valve Cover				



Assemblies include all parts shown in frames.

Valve Gasket Set and Carburetor Overhaul Kit

Ref	Part No.	Qty.	Description				
7	806085	1	Gasket-Cylinder Head				
51	691694	1	Gasket-Intake				
51A	692035	1	Gasket-Intake				
94	808257	1	Idle Mixture Kit				
102	692077	1	Gasket-Carburetorbody				
104	690723	1	Pin-Float Hinge				
105	692078	1	Float Needle Valve				
121	809023	1	Overhaulkit-Carburetor				
276A	691766	1	Sealing Washer				
338	691312	1	Gasket-Dipstick				
633	806131	1	Seal-Shaft				
633A	690722	1	Seal-Choke Shaft				
868	691963	1	Seal-Valve				
883	691613	1	Exhaust Gasket				
1022	806039	1	Gasket-Valve Cover				
1091	691516	1	Cap-Limiter				
1095	808392	1	Gasket Set-Valve				

NOTES

PROTOTYPE

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