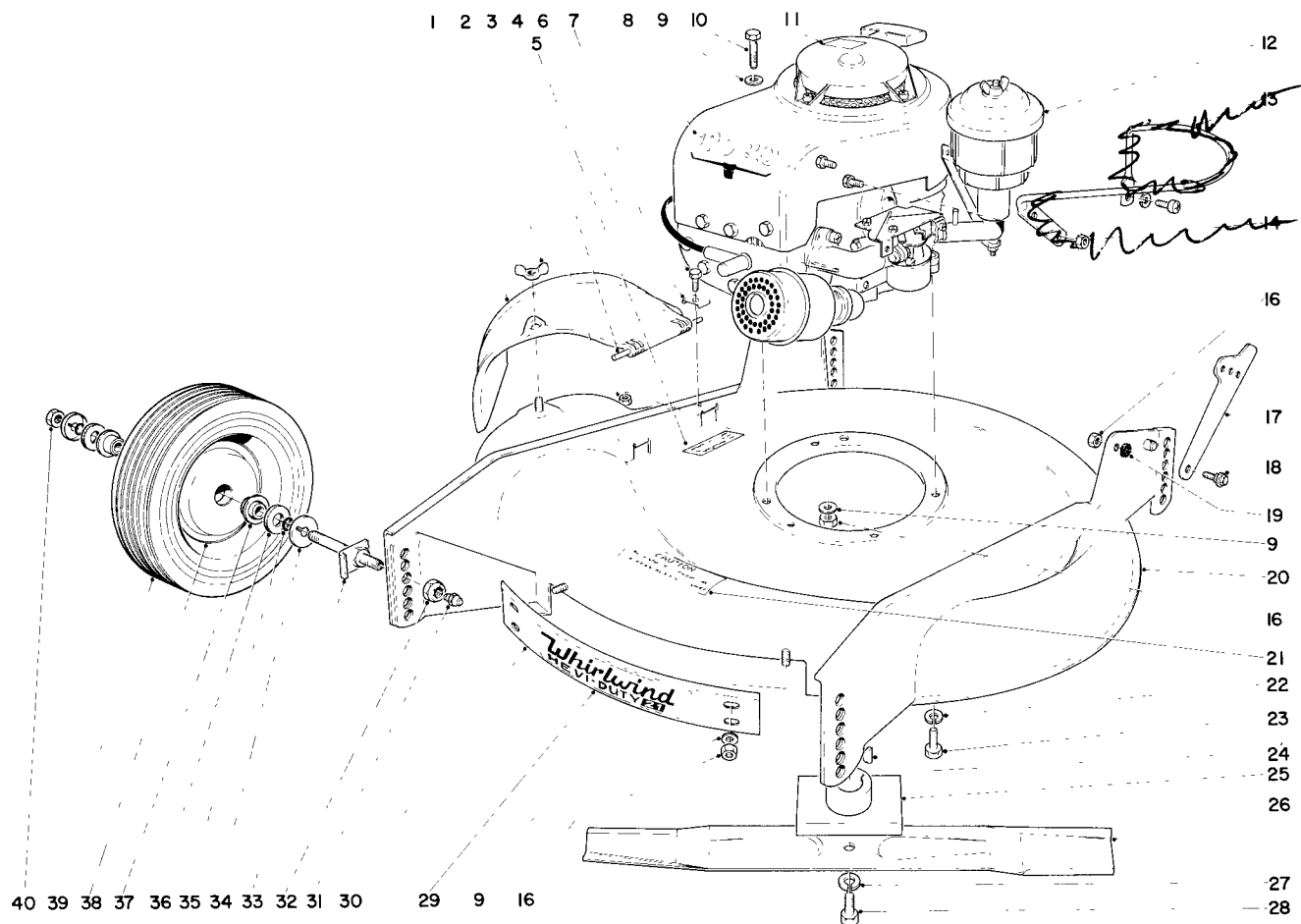


TORO

MODEL NOS. 23000—900001 thru 300001 & UP
(Hand Propelled)
MODEL NOS. 23100—900001 thru 300001 & UP
(Self Propelled)

PARTS CATALOG

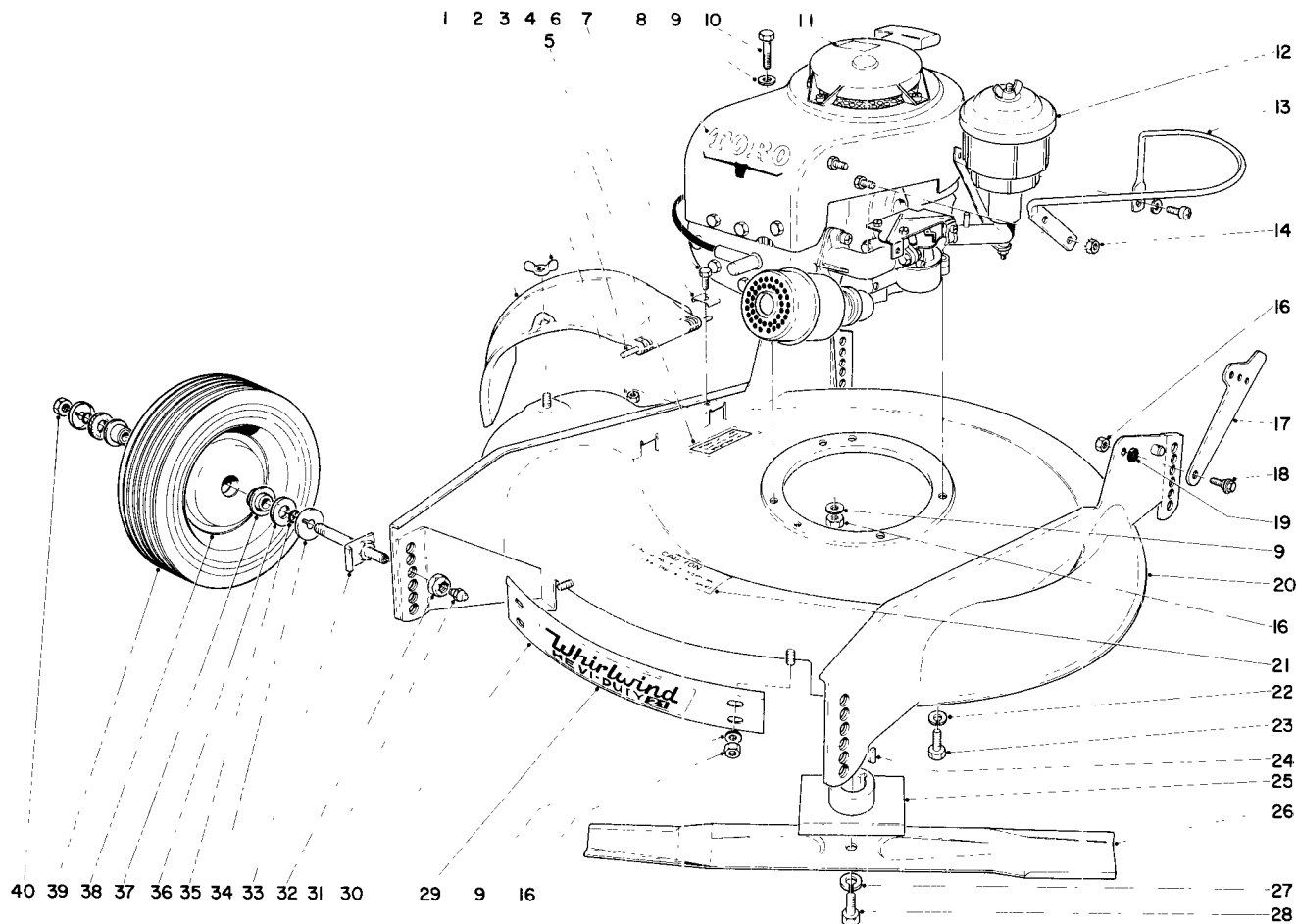
21" WHIRLWIND® HEVI-DUTY



HOUSING ASSEMBLY H. P. MODEL

Ref. No.	Part No.	Description	No. Used
1	11-0450	Deflector	1
2	3-2625	Nut, Wing	1
3	32146-8	Nut <i>3290-352</i>	2
4	3-2644	Pin, Hinge	1
5	3-7643	Decal, Warning	1
6	3-2123	Clamp	2
7	3214	Screw <i>321-2</i>	2
8	3214	Decal <i>73-846 12-9/40</i>	1
9	3256-23	Washer	6
10	322-7	Screw	2
11	8-5390	Decal, Warning	1
12	221-292	Engine	1
13	3-8282	Arm Protector	1
14	32146-5	Nut	2

Ref. No.	Part No.	Description	No. Used
16	32146-5	Nut	6
17	3-2656	Handle Latch	2
18	5-2490	Screw — Shoulder	2
19	3-3287	Washer — Rubber	2
20	3-9960	Housing	1
21	3-5394	Decal <i>21-9320</i>	1
22	3253-4	Washer, Lock	1
23	322-4	Screw	1
24	3257-3	Key	1
25	3-8570	Retainer, Blade	1
26	5-4012	Blade	1
27	3253-22	Washer, Lock	1
28	3-5246	Screw, Special	1

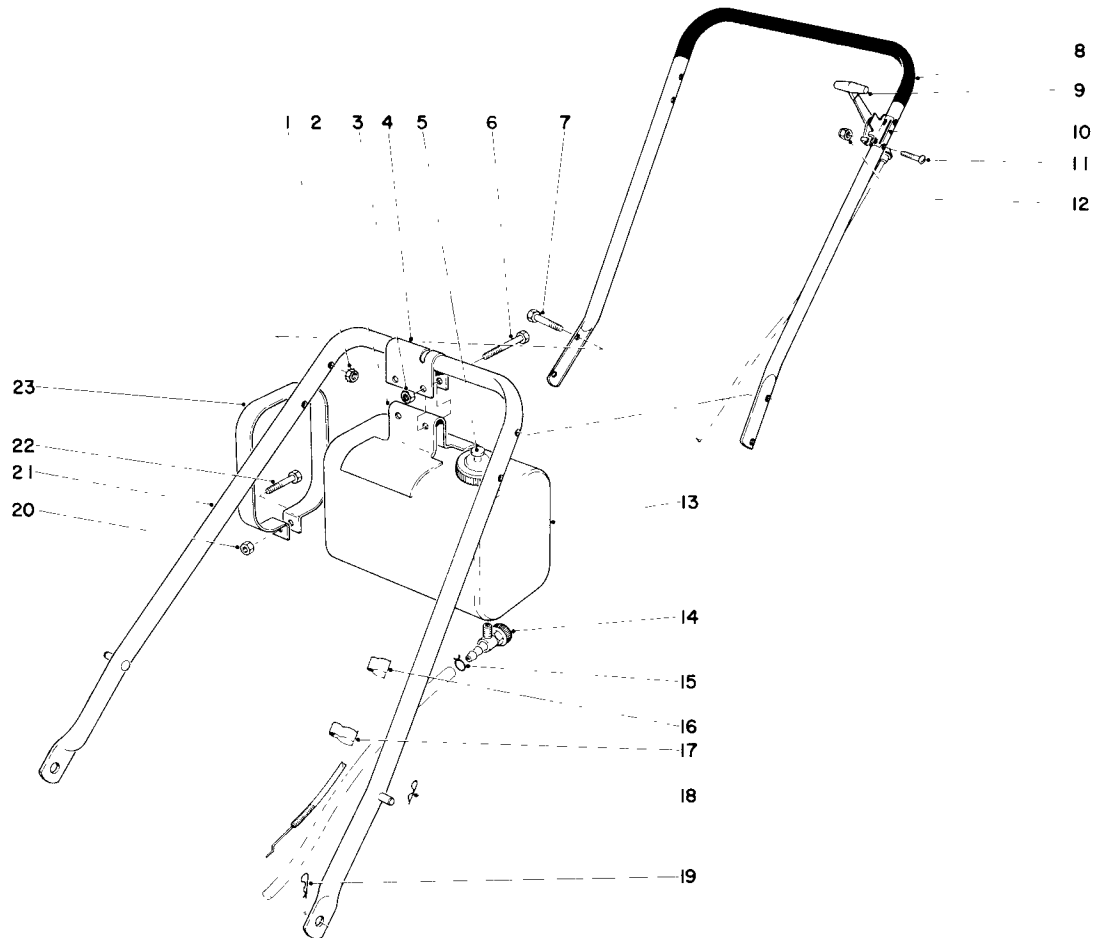


HOUSING ASSEMBLY H. P. MODEL (Continued)

Ref. No.	Part No.	Description	No. Used
29	11-3630	Decal	1
30	3-4412	Guard	1
31	302-5	Grease Fitting	4
32	3296-28	Nut	4
33	3-4059	Spindle Ass'y. (Incl. Ref. #29)	4
34	3-4416	Slinger	8
35	237-30	O-Ring	8

Ref. No.	Part No.	Description	No. Used
36	3-4417	Washer, Felt	8
37	251-180	Bearing	8
38	2-5499	Wheel Ass'y. w/Tire (Incl. Ref. #37 & 39)	4
39	234-18	Tire	4
40	32146-11	Stopnut	4
*	2-9109	Loose Parts Assembly	1

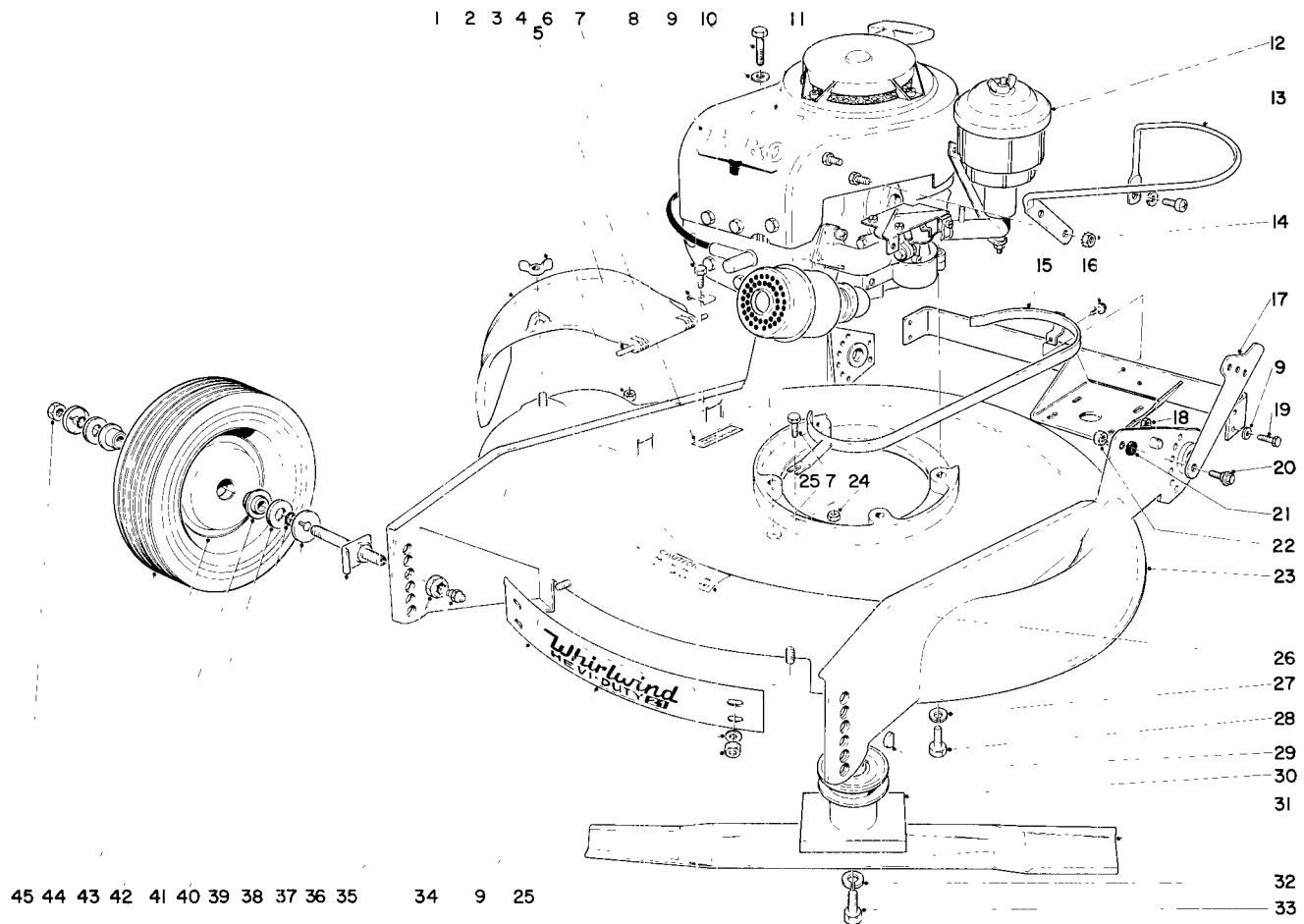
*Not Illustrated



HANDLE ASSEMBLY H. P. MODEL

Ref. No.	Part No.	Description	No. Used
1	32149-2	Nut	4
2	3-6345	Bracket	1
3	32146-5	Nut	2
4	3-6477	Clamp, Fuel Tank	1
5	222-15	Cap	1
6	322-7	Screw	2
7	321-8	Screw	4
8	3-7509 19-7262	Upper Handle Assy. w/Grip	1
9	3-5136	Throttle Control	1
10	3-2067	Decal — Throttle Control	1
11	3251-13	Screw	2
12	3296-2	Nut	2

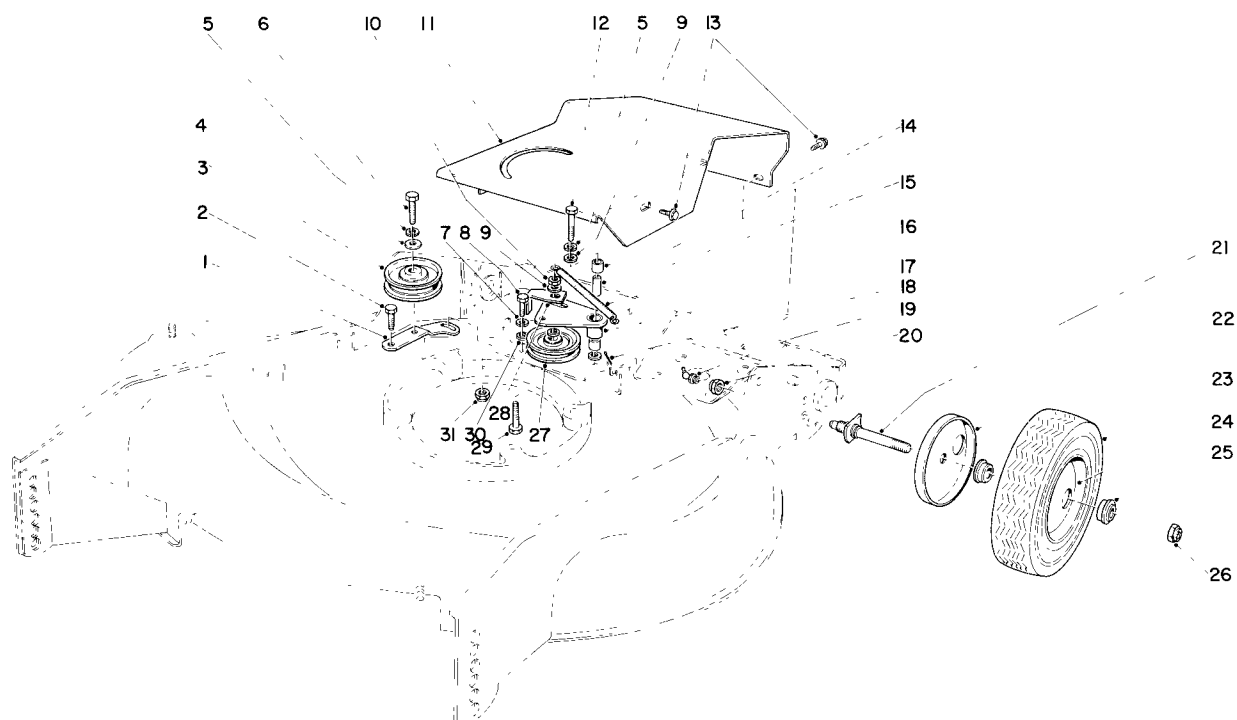
Ref. No.	Part No.	Description	No. Used
13	222-14	Fuel Tank	1
14	304-71	Valve	1
15	2210-87	Clamp Hose	1
16	5-0748	Clamp, Throttle Control	1
17	3-5181	Clamp, Fuel Hose	1
18	3290-250	Cotter Hairpin	2
19	3290-255	Cotter Hairpin	2
20	32146-8	Nut	2
21	3-6850	Lower Handle	1
22	321-10	Screw	2
23	3-6346	Strap	2



HOUSING ASSEMBLY S. P. MODEL

Ref. No.	Part No.	Description	No. Used
1	11-0450	Deflector	1
2	3-2625	Nut, Wing	1
3	32146-8	Nut, Lock <i>3290 - 35-2</i>	2
4	3-2644	Pin, Hinge	1
5	3-7643	Decal, Warning	1
6	3-2123	Clamp	2
7	3214	Screw <i>321-2</i>	3
8	5-1508	Decal <i>18-896</i>	1
9	3256-23	Washer	11
10	322-13	Screw	2
11	3-7644	Decal, Warning	1
12	221-293	Engine	1
13	3-8282	Arm — Protector	1
14	32149-5	Nut, Stop	2
15	3-6594	Belt Guide	1
16	32140-16	Screw	1
17	3-2656	Handle Latch	2
18	32146-4	Nut, Lock	4
19	3210-5	Screw	4
20	5-2490	Screw — Shoulder	2
21	3-3287	Washer — Rubber	2
22	32146-5	Nut	6
23	5-0350	Housing	1

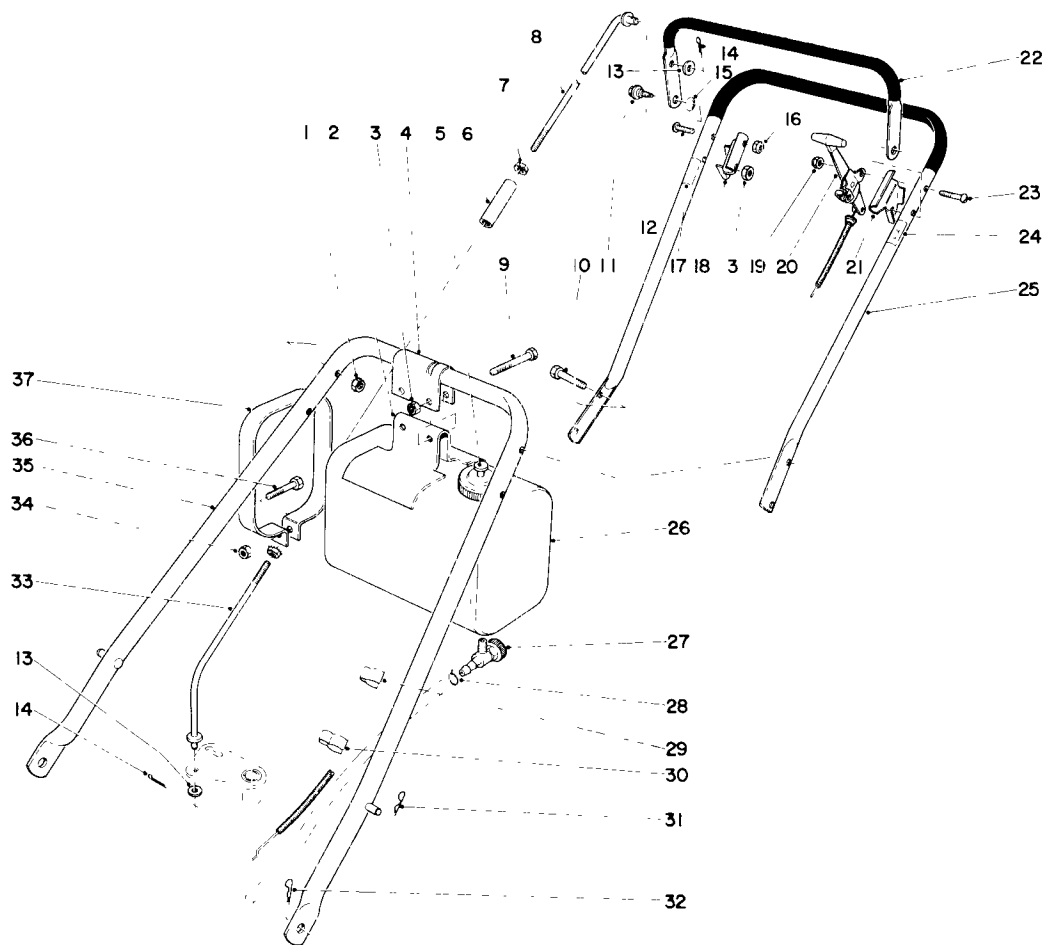
Ref. No.	Part No.	Description	No. Used
24	32146-8	Nut	1
25	32146-5	Nut, Lock	7
26	3-5301	Decal	1
27	3253-4	Washer, Lock	2
28	322-10	Screw	2
29	3257-3	Key	1
30	5-0410	Retainer, Blade	1
31	5-4012	Blade	1
32	3253-22	Washer, Lock	1
33	3-5246	Screw, Special	1
34	11-3630	Decal	1
35	3-4412	Guard	1
36	302-5	Grease Fitting	2
37	3296-28	Nut	2
38	3-4059	Spindle Ass'y (Incl. Ref. #36)	2
39	3-4416	Slinger	4
40	237-30	O-Ring	4
41	3-4417	Washer, Felt	4
42	251-180	Bearing	4
43	2-5499	Wheel Ass'y. w/Tire (Incl. Ref. #42 & 44)	2
44	234-18	Tire	2
45	32146-11	Nut, Stop	2



REAR AXLE & TIRE ASSEMBLY S. P. MODEL

Ref. No.	Part No.	Description	No. Used
1	3-6911	Arm, Auxiliary Idler	1
2	322-3	Screw	1
3	3-4244	Idler	1
4	3256-4	Washer	1
5	3253-21	Washer, Lock	2
6	323-7	Screw	1
7	3254-2	Washer, Lock	1
8	322-1	Screw	1
9	3256-24	Washer	4
10	32146-6	Nut	1
11	3-6473	Shroud	1
12	323-10	Capscrew	1
13	32140-16	Screw	4
14	256-1	Bushing	2
15	3-6468	Spacer	1
16	3-7294	Spring	1

Ref. No.	Part No.	Description	No. Used
17	3-6598	Idler Arm (Incl. Ref. #14)	1
18	3272-11	Pin, Cotter	1
19	302-42	Grease Fitting	2
20	3296-28	Nut	2
21	3-0779	Spindle Assy. (Incl. Ref. #19)	2
22	3-6451	Cover, Wheel	2
23	3-7404	Tire, Rear	2
24	2-9919	Drive Wheel Assy. w/Tire (Incl. Ref. #23 & 25)	2
25	251-180	Bearing	4
26	32146-11	Nut, Stop	2
27	3-4243	Pulley, Idler	1
28	3-6471	Belt Hook	1
29	3-7283	Screw	1
30	3256-23	Washer	1
31	32146-5	Nut, Lock	1

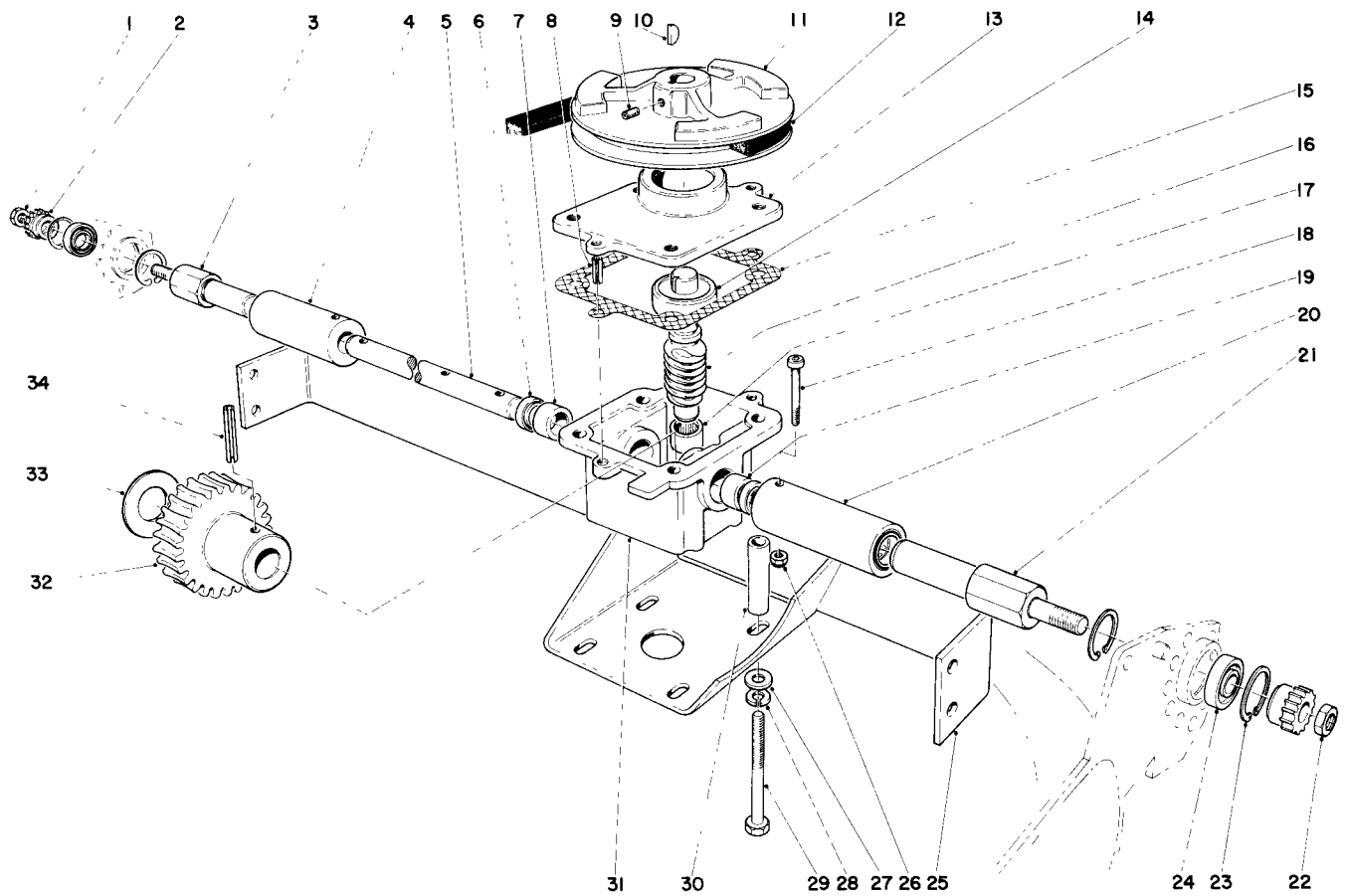


HANDLE ASSEMBLY S. P. MODEL

Ref. No.	Part No.	Description	No. Used
1	32149-2	Nut	4
2	3-6345	Bracket	1
3	32146-5	Nut	6
4	3-6477	Clamp, Fuel Tank	1
5	222-15	Cap	1
6	3-6481	Sleeve Control Rod	1
7	32149-1	Nut	2
8	3-6478	Control Rod, Upper	1
9	322-7	Screw	2
10	321-8	Screw	4
11	5-2490	Screw — Shoulder	2
12	3251-11	Screw	4
13	3256-23	Washer	2
14	3272-6	Pin, Cotter	2
15	3290-211	Washer, Spring	2
16	3296-2	Nut	4
17	12-9230	Decal, Drive	1
18	3-7371	Bracket, Control Bail, Right	1
19	3296-2	Nut	2

Ref. No.	Part No.	Description	No. Used
20	3-5136	Throttle Control	1
21	3-7372	Bracket, Control Bail, Left	1
22	2-9949	Control Bail <i>assem 19-7180</i>	1
23	3251-13	Screw	2
24	3-2067	Decal Throttle Control	1
25	3-7589	Upper Handle Assembly <i>19-7200</i>	1
26	222-14	Fuel Tank	1
27	304-71	Valve	1
28	2210-87	Clamp Hose	1
29	5-0748	Clamp Throttle Control	1
30	3-5181	Clamp, Fuel Hose	1
31	3290-250	Cotter, Hairpin	2
32	3290-255	Cotter, Hairpin	2
33	3-6472	Control Rod Lower	1
34	32146-8	Nut	2
35	3-6850	Lower Handle Assembly	1
36	321-10	Screw	2
37	3-6346	Strap	2
*	2-9929	Loose Parts Assembly	1

*Not Illustrated

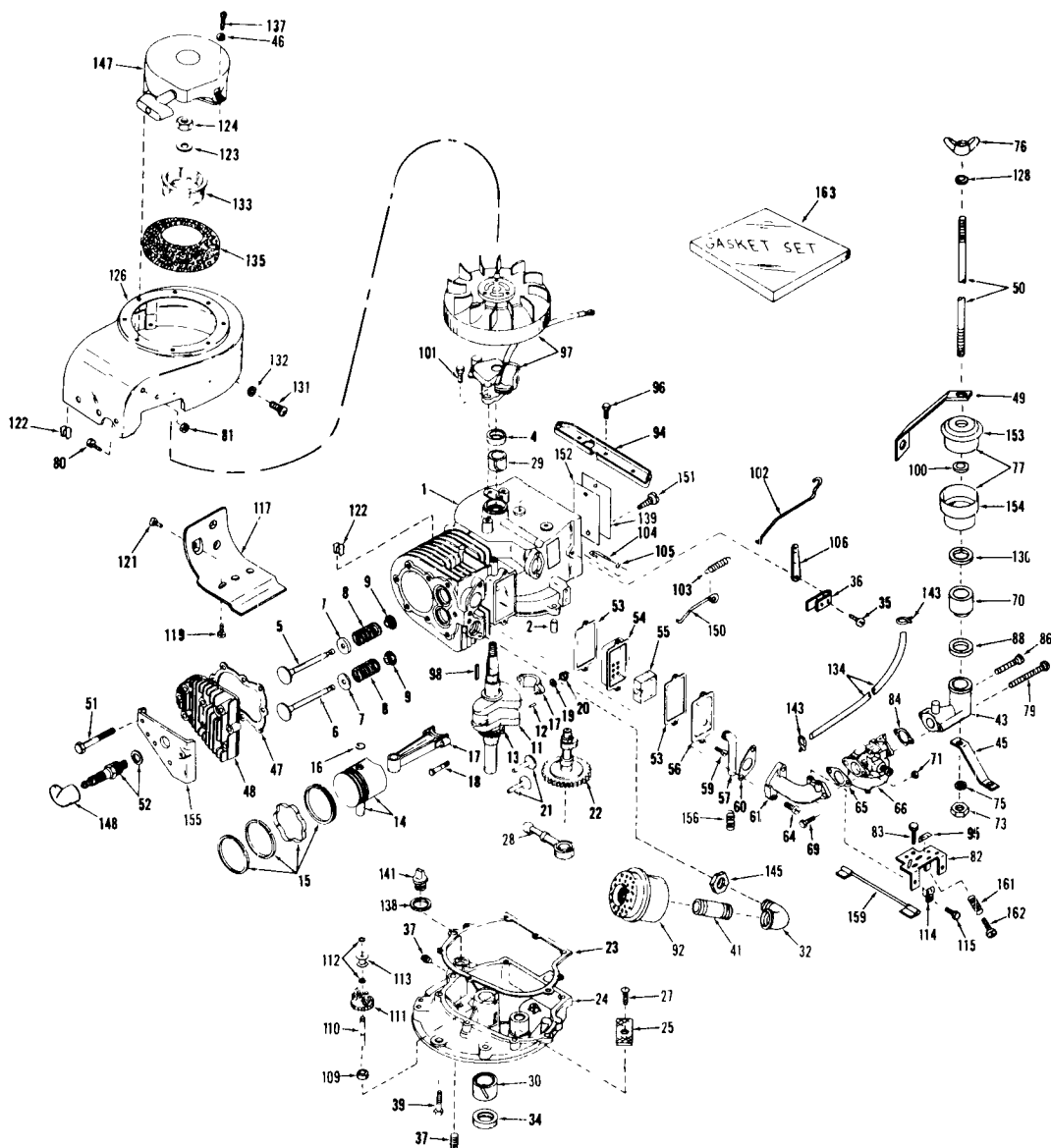


GEAR BOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3220-3	Jam Nut	1
2	3-3039	Pinion Kit	1
3	3-6452	Shaft, Output - Right	1
4	4-1639	Clutch Assembly, Right	1
5	5-3437	Shaft Gearbox	1
6	253-86	Seal, Oil	2
7	256-109	Bushing	1
8	32121-1	Roll Pin	2
9	3246-3	Set Screw	1
10	3257-27	Key	1
11	5-3681	Pulley Gear Box	1
12	3-6593	Belt	1
13	3-6438	Cover, Gear Case	1
14	251-144	Bearing	1
15	3-0734	Gasket	1
16	5-3680	Shaft Worm	1
17	252-51	Needle Bearing	1
18	5-1491	Screw	2

Ref. No.	Part No.	Description	No. Used
19	256-110	Bushing	1
20	4-1649	Clutch Assembly, Left	1
21	3-6454	Shaft, Output - Left	1
22	3-5781	Nut Special - L.H. Thread	1
23	32151-8	Ring Retaining	4
24	251-183	Bearing	2
25	5-3568	Support, Gear Case	1
26	3296-2	Nut	2
27	3256-22	Washer	4
28	3253-3	Washer, Lock	4
29	321-14	Screw	4
30	19-1350	Spacer	4
31	5-8339	Gear Case (Incl. Ref. Nos. 7, 17 & 19)	1
32	3-6436	Worm Gear	1
33	3-0724	Washer, Thrust	1
34	32121-63	Roll Pin	1
*	5-8329	Gear Case Assembly Complete	1

*Not Illustrated



ENGINE MODEL NO. V50-60126G & 60127G

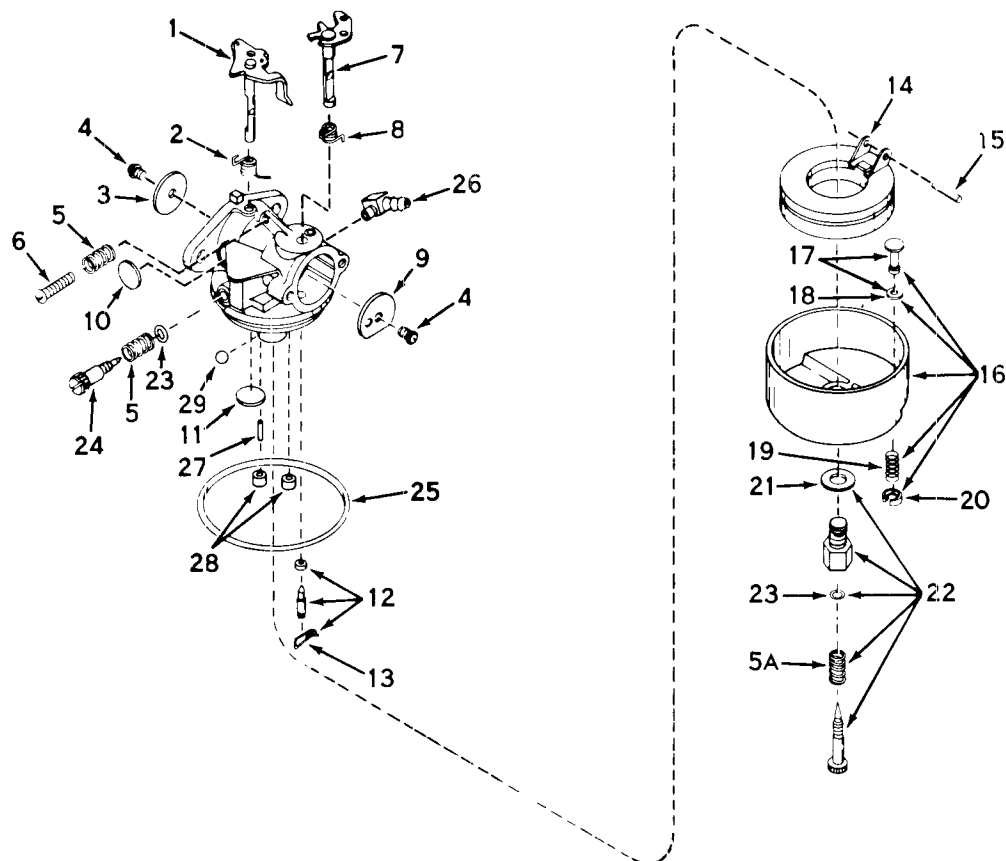
Ref. No.	Part No.	Description	No. Used
1	31536A	Cylinder Assy. (Incl. Nos. 2, 4 & 29)	1
2	27652	Pin, Dowel	2
4	*27876B	Seal, Oil	1
5	31467A	Valve, Intake, Standard (Incl. No. 9)	1
5	31468A	Valve, Intake, 1/32" Over-size (Incl. No. 9)	1
6	31469A	Valve, Exhaust, Standard (Incl. No. 9)	1
6	31470A	Valve, Exhaust, 1/32" Over-size (Incl. No. 9)	1
7	27882	Cap, Upper Valve Spring	2
8	27881	Spring, Valve	2
9	32581	Cap, Lower Valve Spring (Std.)	2
11	31459	Crankshaft Assy. (Incl. Nos. 12 & 13) V50-60126G	1

Ref. No.	Part No.	Description	No. Used
11	31729	Crankshaft Assy. (Incl. Nos. 12 & 13) V50-60127G	1
12	29783	Pin, Crankshaft Gear	1
13	27884	Gear, Crankshaft	1
14	30662	Piston & Pin Assy., Std., (Incl. 2 of No. 16)	1
14	30663	Piston & Pin Assy., .010 oversize (Incl. 2 of No. 16)	1
14	30664	Piston & Pin Assy., .020 oversize (Incl. 2 of No. 16)	1
15	28935	Ring Set, Piston (Standard)	1
15	28936	Ring Set, Piston (.010 oversize)	1
15	28937	Ring Set, Piston (.020 oversize)	1
16	27888	Ring, Piston Pin Retaining	2
17	31466	Rod Assy., Connecting (Incl. Nos. 18, 19 & 20)	1

ENGINE MODEL NO. V50-60126G & 60127G (Continued)

Ref. No.	Part No.	Description	No. Used
18	21718	Bolt, Connecting Rod	2
19	26073	Washer, Connecting Rod Bolt	2
20	28264	Nut, Hex	2
21	27893	Lifter, Valve	2
22	52114	Camshaft	1
23	*30684	Gasket, Mounting Flange	1
24	31471A	Flange Assy., Mounting (Incl. Nos. 25, 27, 30, 34, 37 & 110)	1
25	31355	Screen, Oil Filter	1
27	29117	Screw, Slotted Hex Head, Self Tapping	1
28	31356	Pump Assy., Oil	1
29	31461	Bushing, Crankshaft	1
30	31462	Bushing, Crankshaft	1
32	29574	Elbow, Exhaust (90 degree)	1
34	*27897	Seal, Oil	1
35	650548	Screw, Hex Slot. Washer Hd.	1
36	31335	Clamp, Governor Lever	1
37	27642	Plug, Oil Drain, Sq. Hd.	2
39	650488	Screw, Hex Hd. Cap, Sems	7
41	30244	Nipple, Pipe	1
43	31473	Elbow, Air Cleaner	1
45	31475	Brace, Cleaner Elbow	1
46	650168	Washer, Flat	4
47	*28938B	Gasket, Cylinder Head	1
48	30938A	Head, Cylinder	1
49	31474	Brace, Cleaner	1
50	31476	Stud, Air Cleaner	1
51	28261	Screw, Hex Head Cap	8
52	21943	Plug, Spark (Champion J-8 or Equivalent)	1
53	*27896	Gasket, Valve Chamber Cover	2
54	28423	Body Assy., Breather	1
55	28424	Element, Breather	1
56	28425	Cover, Valve Chamber	1
57	27627	Tube, Breather	1
59	650128	Screw, Phil. Fil. Hd., Sems	2
60	*27915	Gasket, Intake Pipe	1
61	31512	Pipe, Intake	1
64	650378	Screw, Fil. Hd. Sems	2
65	*26756	Gasket, Carburetor	1
66	631115	Carburetor	1
69	6201	Screw, Hex Hd. Cap	2
70	29497	Spacer, Cleaner	1
71	29752	Nut, Hex, Lock	2
73	650129	Nut, Hex	1
75	27513	Lockwasher, Split	1
76	650513	Nut, Wing	1
77	31477	Cleaner Assy., Oil Bath Air (Incl. Nos. 100, 128, 130, 153 & 154)	1
79	650519	Screw, Fil. Hd. Mach	1
80	28454	Screw, Hex Hd. Cap	2
81	650586	Nut, Jam	2
82	31736	Control Assy., Speed	1
83	30200	Screw, Hex Washer Hd.	2

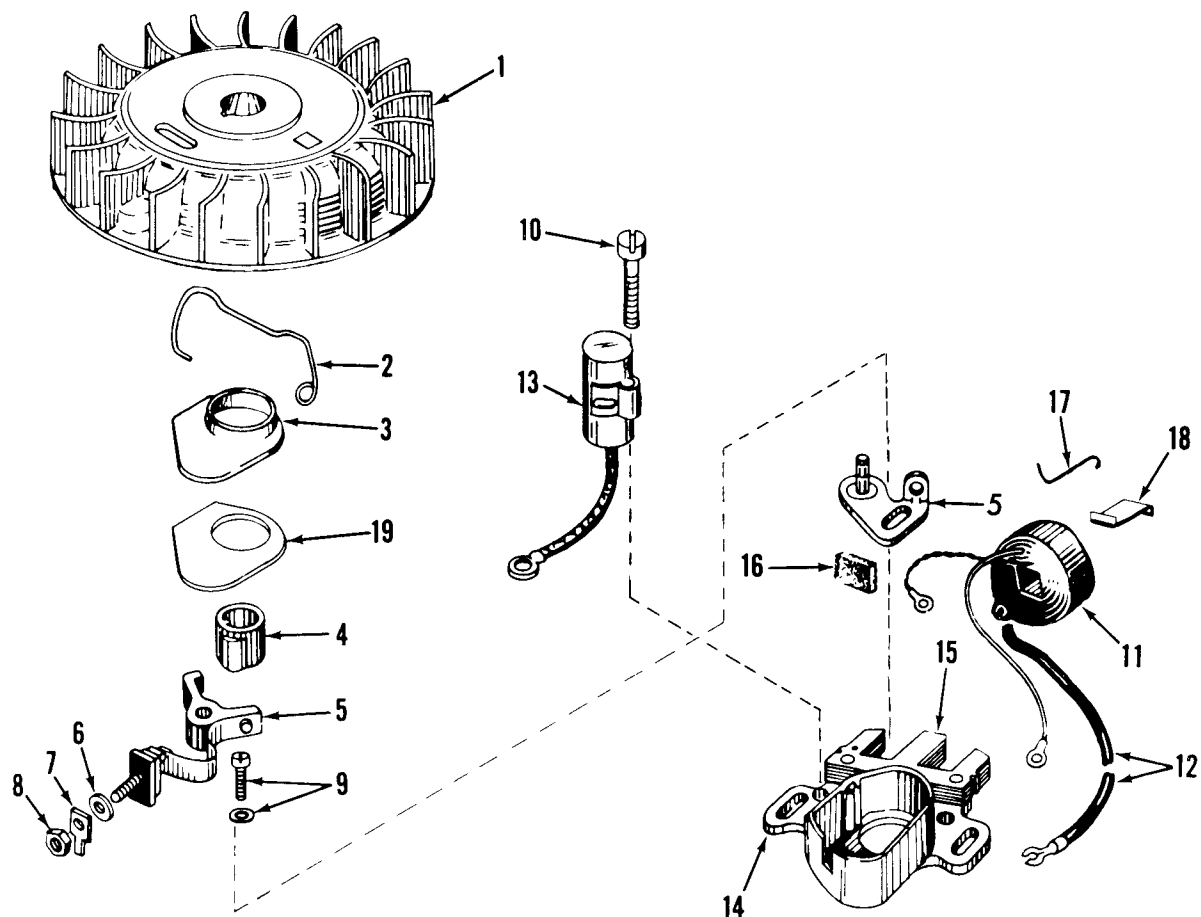
Ref. No.	Part No.	Description	No. Used
84	*27272	Gasket, Air Cleaner Elbow	1
86	28597	Screw, Filister Head Sems	1
88	*27165	Gasket, Spacer	1
92	29633	Muffler	1
94	28738	Bracket, Blower Housing (Incl. Nos. 131 & 132)	1
95	31495	Decal, Speed Control	1
96	650561	Screw, Hex Hd. Cap, Sems	2
97	610689A	Magneto	1
98	30884	Key, Flywheel	1
100	31480	"O" Ring	1
101	650489	Screw, Hex Hd. Cap, Sems	2
102	31823	Link Governor	1
103	31361	Spring, Governor	1
104	30669	Rod, Governor (Incl. No. 105)	1
105	28277	Washer, Flat	1
106	31357	Lever, Governor	1
109	31707	Spacer	1
110	30668	Shaft, Mechanical Governor	1
111	30591	Gear Assy., Governor	1
112	29193	Ring, Retaining	2
113	30588A	Spool, Governor	1
114	27793	Clip, Conduit	1
115	28942	Screw, Hex Hd. Sems	1
117	30622	Extension, Blower Housing	1
119	650128	Screw, Fil. Hd. Sems	1
121	30688	Screw, Hex Hd. Cap, Sems	1
122	27275	Clip, Hi-tension Wire Retaining	2
123	650490	Washer, Belleville	1
124	8116	Nut, Hex	1
126	32583	Housing, Blower	1
128	31481	Washer, Copper	1
130	31479	Washer, Fiber	1
131	29596	Screw, Fil. Hd. Mach.	2
132	8274	Lockwasher	2
133	32125	Cup, Starter	1
134	30962	Line, Fuel	1
135	590417	Screen, Starter Cup	1
137	30513	Screw, Phil. Fil. Hd. Sems	4
138	*29673	Gasket, Oil Filler	1
139	31865	Decal, Name & Instruction	1
141	27625	Plug, Oil Filler	1
143	26460	Clamp, Fuel Line	2
145	28443	Nut, Conduit	1
147	590420	Starter, Rewind	1
148	610118	Cover, Spark Plug	1
150	32582	Link, Governor Spring	1
151	28670	Stud, Drive	2
152	31345	Plate, Identification	1
153	31669	Cover, Oil Bath Cleaner	1
154	31670	Bowl, Oil Bath Cleaner	1
155	30939	Cover, Cylinder Head	1
156	31778	Spring, Coil	1
159	28468	Wire, Ground	1
161	31342	Spring, Compression	1
162	650549	Screw, Fil. Hd. Mach.	1
163	31372A	Gasket Set (Incl. items marked *)	1



CARBURETOR NO. 631115

Ref. No.	Part No.	Description	No. Used
1	31834	Shaft & Lever Assy., Throttle	1
2	630731	Spring, Throttle Return	1
3	631036	Shutter, Throttle	1
4	650506	Screw, Round Head	2
5	630766	Spring, Idle Reg. Screw	2
5A	630738	Spring, Main Adj. Screw	1
6	650417	Screw, Idle Regulating	1
7	630973	Shaft & Lever Assy., Choke	1
8	630821	Spring, Choke Return	1
9	631037	Shutter, Choke	1
10	630748	Plug, Welch	1
11	631027	Plug, Welch	1
12	*631021	Inlet Needle, Seat & Clip Assy. (Incl. No. 13)	1
13	631022	Clip, Inlet Needle	1
14	631023	Float, Carburetor	1
15	*631024	Shaft, Float	1
16	631025	Bowl & Drain Assy., Float (Incl. Nos. 17 thru 20)	1

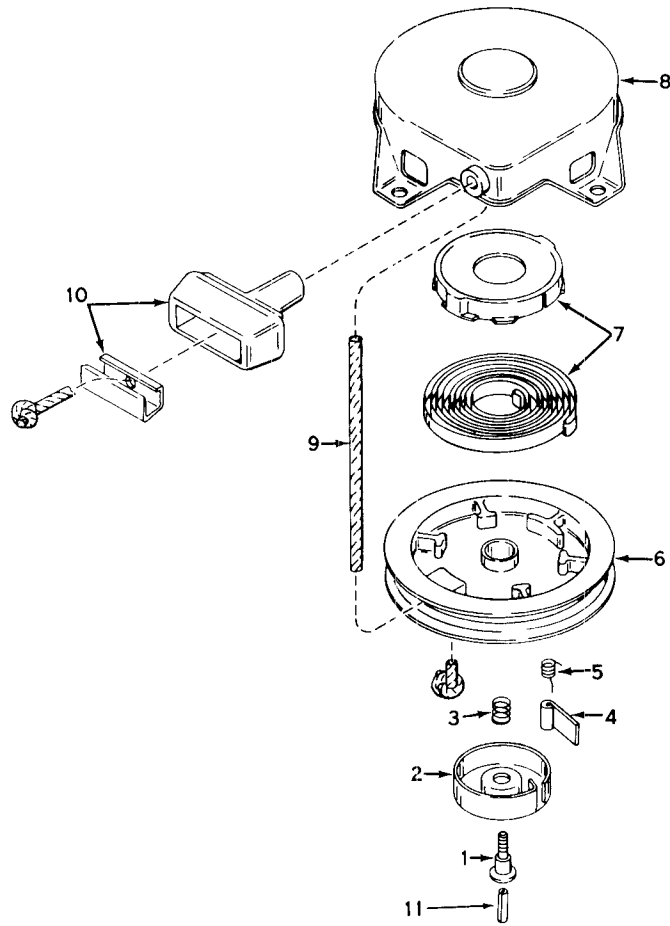
Ref. No.	Part No.	Description	No. Used
17	27136	Plunger Assy., Drain (Incl. No. 18)	1
18	27554	Gasket, Drain Plunger	1
19	27137	Spring, Drain Plunger	1
20	27138	Retainer, Plunger Spring	1
21	*27110	Gasket, Bowl-to-Body	1
22	*631026	Adjustment Screw Assy., Main (Incl. Nos. 5A, 21, 23 & 30)	1
23	630740	"O" Ring, Adjustment Screw	2
24	*631078	Screw, Idle Adjustment	1
25	*631028	"O" Ring, Bowl-to-Body	1
26	631133	Fitting, Fuel Inlet	1
27	631039	Pin	1
28	630747	Plug, Cup	2
29	631081	Ball, Aluminum	1
31	631029	Repair Kit (Incl. items marked*)	1



MAGNETO NO. 610689A

Ref. No.	Part No.	Description	No. Used
1	30555	Flywheel	1
2	30551	Spring, Breaker Box	1
3	30550	Cover, Breaker Box Dust	1
4	30992	Cam Breaker (Not Used on All Engines)	1
5	30547A	Contact Assy., Breaker	1
6	610385	Washer, Terminal	1
7	30843	Tab, Ground Terminal	1
8	610408	Nut, Terminal	1
9	29181	Screw & Washer, Breaker	1
10	610593	Screw, Condenser Fastening	1

Ref. No.	Part No.	Description	No. Used
11	30560	Coil Assy. (Incl. Ref. Nos. 12, 13 & 18)	1
12	30554	Wire, Lead	1
13	30548A	Condenser	1
14	30545	Core & Plate	1
15	30561A	Stator Assy. (Incl. Nos. 2, 3, 5 thru 14 & 16 thru 19)	1
16	30549	Felt, Cam Wiper	1
17	31311	Clip, Coil Locking	1
18	29629	Spring, Coil Wedge	1
19	30883	Gasket, Dust Cover	1



REWIND STARTER NO. 590420

Ref. No.	Part No.	Description	No. Used
1	590409	Screw, Retainer	1
2	590410	Retainer, R.H.	1
3	590411	Spring, Brake	1
4	590148	Dog, Starter	1
5	590412	Spring, R.H. Dog	1
6	590413A	Pulley	1

Ref. No.	Part No.	Description	No. Used
7	590414	Spring & Keeper Assy.	1
8	590415	Housing Assy., Starter	1
9	590386	Rope, Starter	1
10	590387	Handle Assy., Starter	1
11	590459	Pin, Centering	1

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change apparently has been made in your unit, which is not reflected in your manual, see your TORO distributor or his Authorized TORO Service Dealer for information and part numbers.

IMPORTANT ORDERING INSTRUCTIONS

Repair parts are available from your Authorized TORO Service Dealer. To insure getting correct parts without delay, furnish the following information:

1. Serial number of your mower as shown on the name plate.
2. Part number, description, and quantity of each part required.
3. State whether parts should be shipped by mail or express. All repair parts are shipped F.O.B. Factory.
4. Name and address where parts are to be shipped.
5. Do not order by reference number; use part number only.

THE TORO PROMISE

It is Toro's policy to design and produce TORO products to provide our customers with a high level of performance and durability in normal operation. Our products, however, are produced in high volume, and it is inevitable that occasionally a unit will reach a customer with a defect in materials or workmanship which causes that unit to fall below the normal high

level of TORO performance. Invariably, such a defect will be noticed in a residential product within one year, and in an institutional product within ninety days after purchase. Recognizing this possibility, Toro has established a simple guarantee policy and procedure that is intended to assure customer satisfaction. This guarantee statement is as follows:

The Toro Promise

The Toro Company promises to repair any TORO product for the original purchaser if defective in materials or workmanship. The following time periods from the date of purchase apply:

Residential products	1 year
Residential products used commercially	45 days
Institutional products	90 days

The costs of parts and labor are included, but the customer pays the transportation costs. Just return any residential product to an Authorized TORO Service Dealer, or any institutional product to a TORO distributor.

Should you feel that a product is defective, and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact any TORO dealer or distributor, but preferably the dealer or distributor from whom you purchased the product.
2. He will instruct you to either return the product to him, or tell you the name and address of your nearest Authorized TORO Service Dealer if the product is to be returned to such dealer.
3. Take the product and your original sales slip, or other evidence of purchase date, to the servicing dealer.

4. The servicing dealer will inspect the unit, advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without extra charge to you.

If for any reason you are dissatisfied with the dealer's analysis of the defect or the service he performs, we urge you to contact us. Write:

TORO "Customer Care" Department
8111 Lyndale Avenue South
Bloomington, Minnesota 55420

MAINTENANCE RECORD

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MAINTENANCE RECORD

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