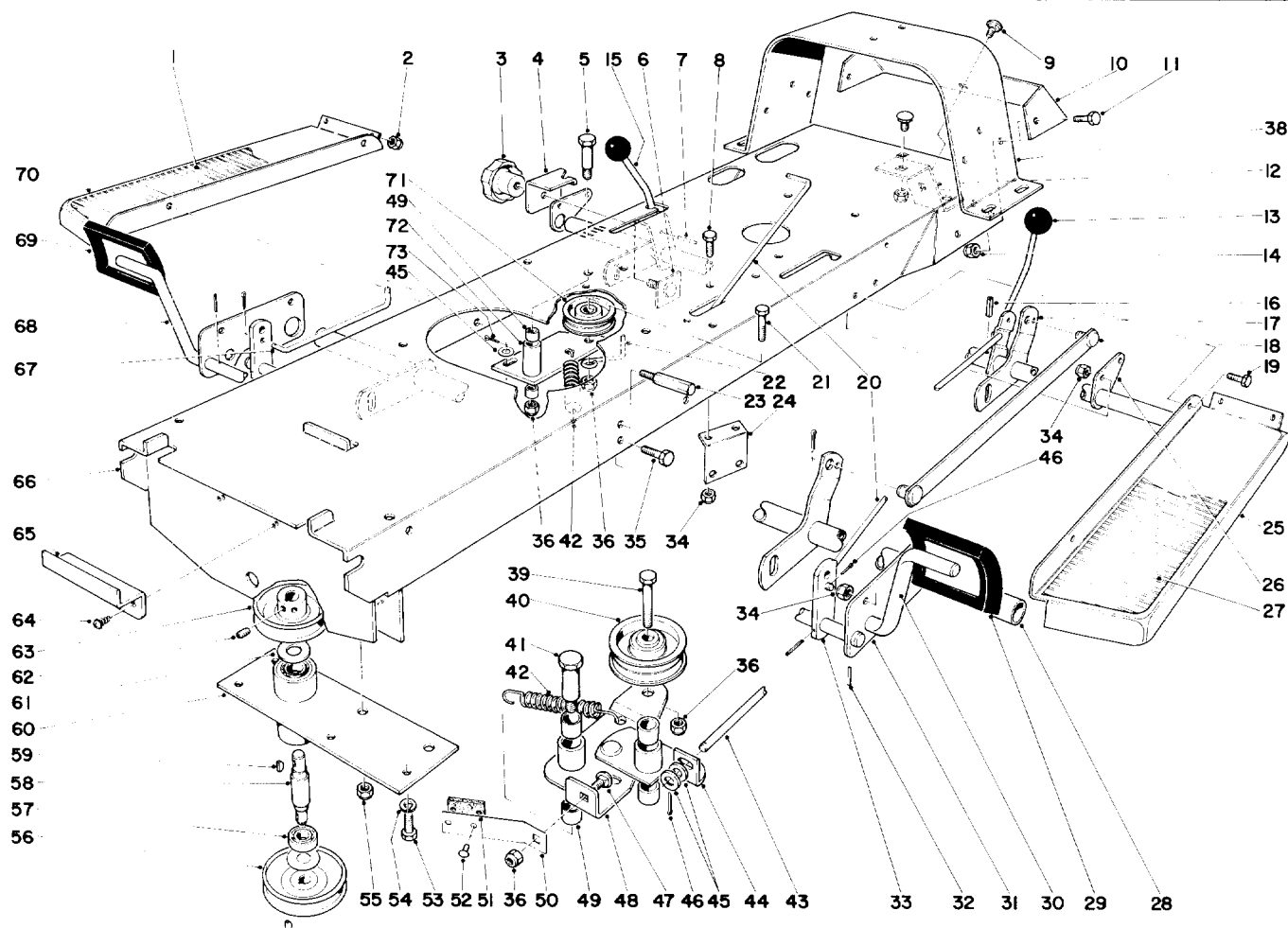


TORO

1970
MODEL 57104-000001 & UP (Recoil)
MODEL 57204-000001 & UP (Electric)

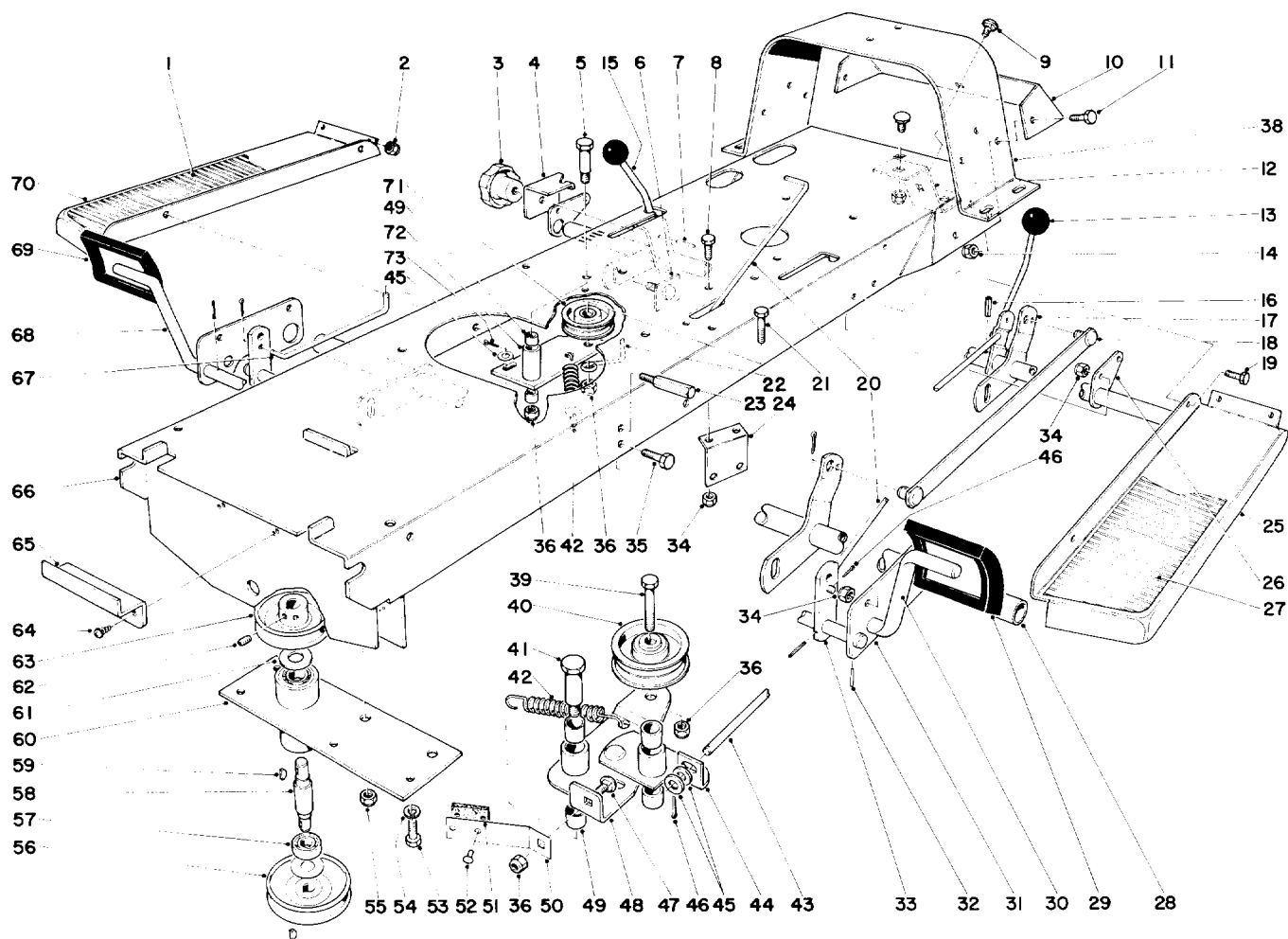
PARTS CATALOG

7 H.P. LAWN TRACTOR (Recoil & Electric)



FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	7-3894	Foot Pad R.H.	1	18	7-3761	Height Adjustment Link Assy.	1
2	32149-7	Nut	4	19	322-3	Capscrew	4
3	7-3902	Knob	1	20	7-6350	Brake Rod	1
4	7-3772	Slide Height of Adjustment	1	21	323-9	Capscrew	1
5	7-0731	Shoulder Bolt	1	22	7-0751	Retainer Belt	1
6	7-3667	Knob Plate Assembly	1	23	7-3668	Pedal Stop	2
7	32121-51	Roll Pin	1	24	7-3967	Belt Guide	1
8	322-2	Capscrew	2	25	7-3681	Foot Rest L.H.	1
9	3231-21	Carriage Bolt	2	26	7-3671	Bracket Tube	2
10	7-3790	Frame Member Rear	1	27	7-3895	Foot Pad L.H.	1
11	323-4	Capscrew	2	28	7-3737	Front Height Adjustment Tube	1
12	7-3775	Bracket Hitch	1	29	7-3901	Foot Pad Clutch	1
13	233-22S	Knob	2	30	7-3688	Clutch Pedal Assembly	1
14	32152-2S	Nut	8	31	7-3670	Plate Tube	2
15	7-3763	Rod Control Height of Adjustment	1	32	32121-45	Roll Pin	6
16	32121-29	Roll Pin	1	33	7-3683	Arm Lever	2
17	7-3758	Rear Height Adjustment Tube	1	34	32152-1S	Nut	8
				35	322-3	Capscrew	2

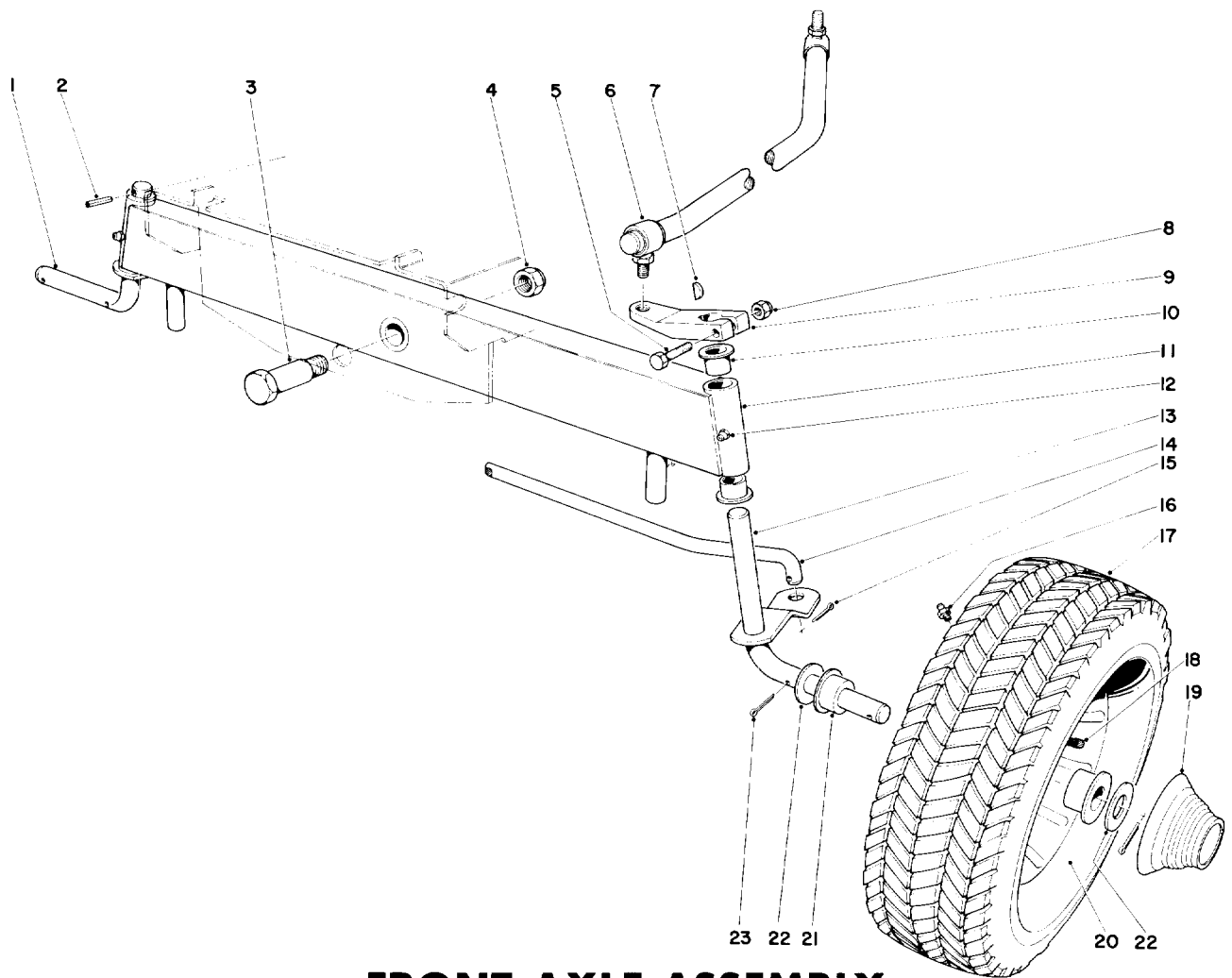


FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
36	32152-2S	Nut	4
38	7-3678	Rear Support	1
39	323-8	Capscrew	1
40	7-0136	Idler Pulley	1
41	7-0731	Shoulder Bolt	2
42	7-3968	Spring, Tension	1
43	7-3885	Rod Blade Clutch	1
44	7-3800	Pivot Bracket Assembly Incl. Ref. #49	1
45	3256-2	Washer	2
46	3272-5	Cotter Pin	2
47	3231-21	Carriage Bolt	1
48	7-3751	Idler Plate Assembly Incl. Ref. #49	1
49	256-172S	Bushing	6
50	7-3801	Spring Clutch Brake	1
51	7-0643	Brake Lining Blade	1
52	3295-21	Pop Rivet	2
53	322-2	Capscrew	4
54	3253-4	Lockwasher	4

Ref. No.	Part No.	Description	No. Used
55	32152-2S	Nut	2
56	7-3794	Pulley	1
57	251-5	Bearing	2
58	7-3728	Pulley Shaft	1
59	3257-5	Key	2
60	7-3730	Pulley Tube Assembly	1
61	7-0777	Bearing Washer	2
62	3246-2	Set Screw	4
63	7-3796	Pulley	1
64	32140-1	Self Tapping Screw	2
65	7-3886	Bracket, Grille Hinge	1
66	7-3750	Frame Assembly	1
67	7-3741	Clutch Rod	1
68	7-3690	Brake Pedal Assembly	1
69	7-3900	Foot Pad Brake	1
70	7-3680	Foot Rest R. H.	1
71	7-0136	Idler Pulley	1
72	7-3740	Idler Arm Assy. Incl. Ref. #49	1
73	3272-6	Cotter Pin	5
*	7-3803	Clutch Brake Assembly Incl. Ref. #50, 51, & 52	1

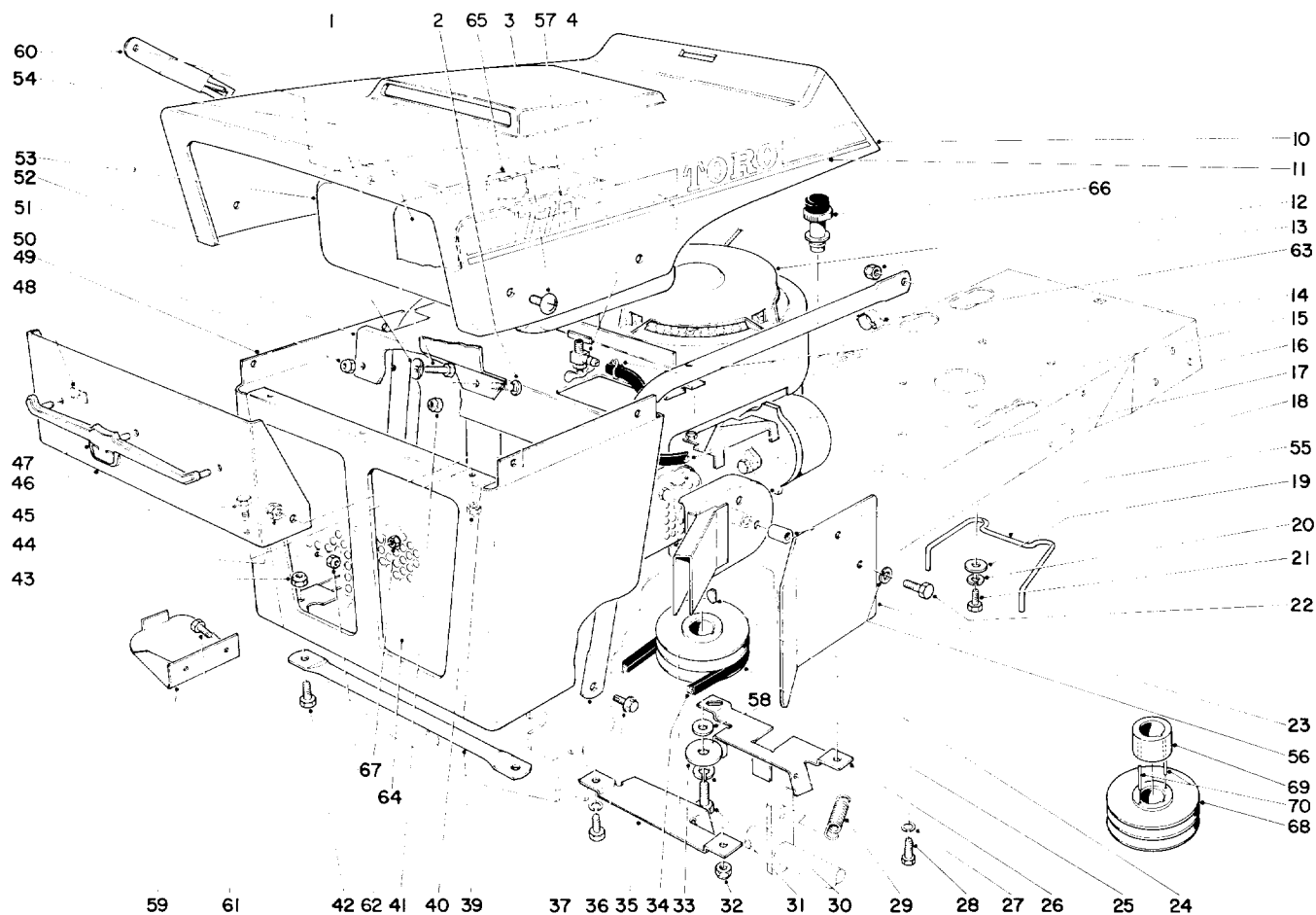
* Not Illustrated



FRONT AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-3718	Spindle R. H.	1
2	32121-50	Roll Pin	1
3	7-3884	Shoulder Bolt	1
4	32152-3S	Nut	1
5	321-9	Capscrew	1
6	7-4760	Steering Rod	1
7	3257-24	Woodruff Key	1
8	32152-4S	Nut	1
9	7-3706	Steering Arm	1
10	256-90	Bushing	4
11	7-3698	Front Axle Assembly	1
12	302-49	Grease Fitting	2

Ref. No.	Part No.	Description	No. Used
13	7-3715	Spindle L. H.	1
14	7-3776	Tie Rod	1
15	3272-6	Cotter Pin	2
16	302-5	Grease Fitting	2
17	231-55S	Tire	2
18	232-27S	Valve Stem	2
19	7-3932	Hub Cap	2
20	217-80S	Rim	2
21	256-170S	Bushing	4
22	7-0131	Washer	4
23	3272-12	Cotter Pin	4
	7-3703	Wheel Assy. Front	2

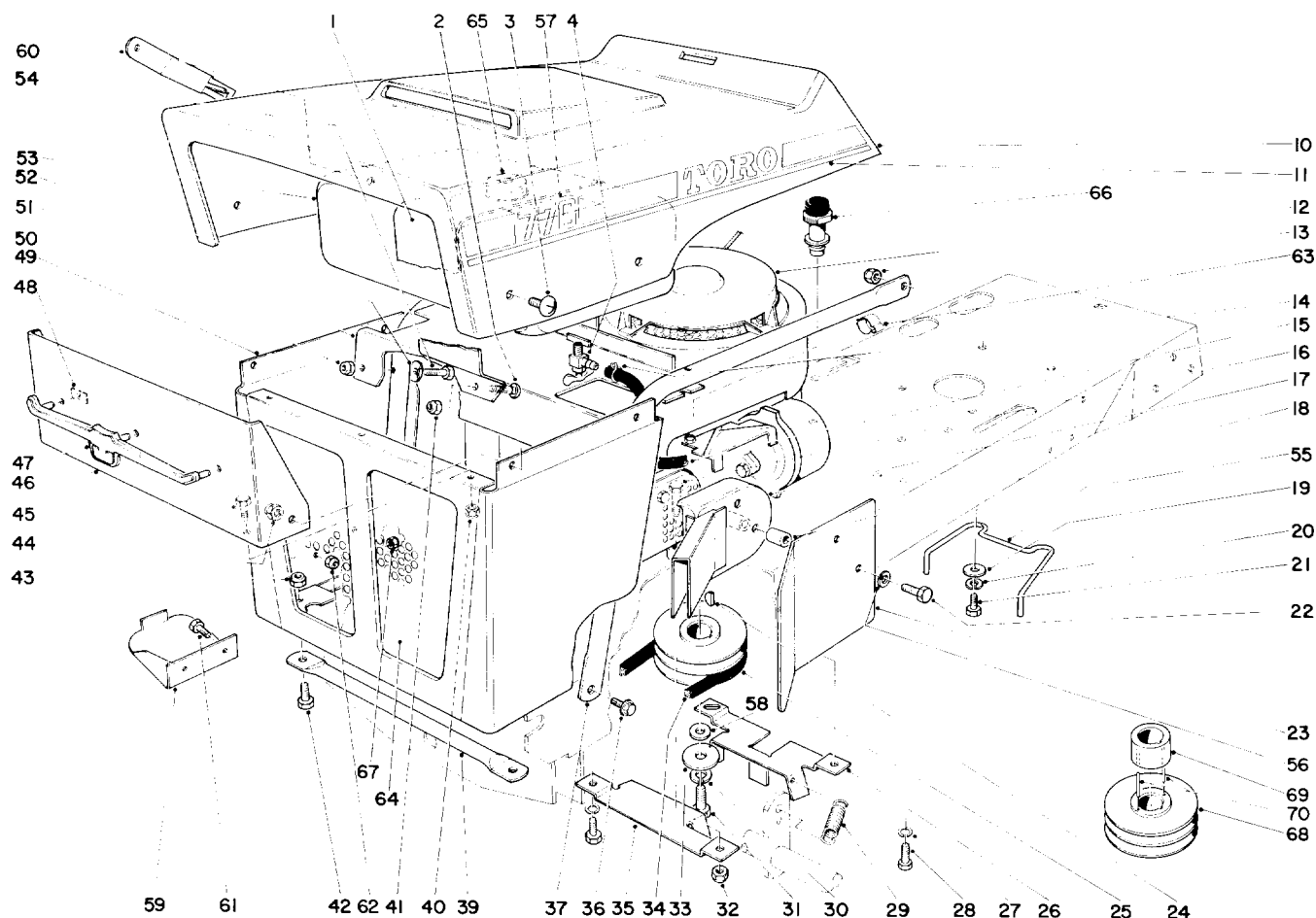


HOOD AND ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-4900	Strap Gas Tank	1
2	3230-2	Carriage Bolt	1
3	3258-158S	Cross Recess Screw	4
4	304-88	Hose Fitting	1
10	7-4980	Hood	1
11	7-6450	Decal Hood L. H. (Recoil)	1
*	7-6440	Decal Hood R. H. (Recoil)	1
*	7-6460	Decal Hood R. H. (Electric)	1
*	7-6470	Decal Hood L. H. (Electric)	1
12	221-344	Engine (Recoil)	1
*	221-345	Engine (Electric)	1
13	32152-4S	Nut	2
14	2412-6	Hose Clamp	2
15	7-3983	Gas Hose	1
16	322-7	Capscrew	2
17	7-5070	Muffer Baffle	1
18	7-5180	Spacer Muffer	4
19	3256-23	Washer	2
20	3253-24	Lockwasher	2
21	322-5	Capscrew	2
22	322-19	Capscrew	2
23	7-5100	Heat Shield Muffer	1
24	3257-3	Woodruff Key	1
25	7-3748	Engine Pulley	1

Ref. No.	Part No.	Description	No. Used
26	7-5050	Belt Guide	1
27	3253-24	Lockwasher	2
28	322-5	Capscrew	2
29	7-3970	Spring Tension	2
30	3253-21	Lockwasher	1
31	3211-5	Capscrew	1
32	32152-1S	Nut	2
33	3256-36	Washer	1
34	7-3887	Belt	1
35	7-3766	Belt Guide	1
36	32140-15	Self Tapping Screw	2
37	7-3905	Support Gas Tank L. H.	1
*	7-3906	Support Gas Tank R. H.	1
39	7-3682	Rod Grille Mount	1
40	32152-4S	Nut	3
41	32152-1S	Nut	1
42	321-2	Capscrew	2
43	32152-4S	Nut	2
44	32152-1S	Nut	4
45	321-2	Capscrew	3
46	7-3451	Grille Panel	1
47	7-3441	Bullshead Grille	1
48	3290-275	Tinnerman Nut	3
49	7-5170	Grille Assembly (Recoil)	1

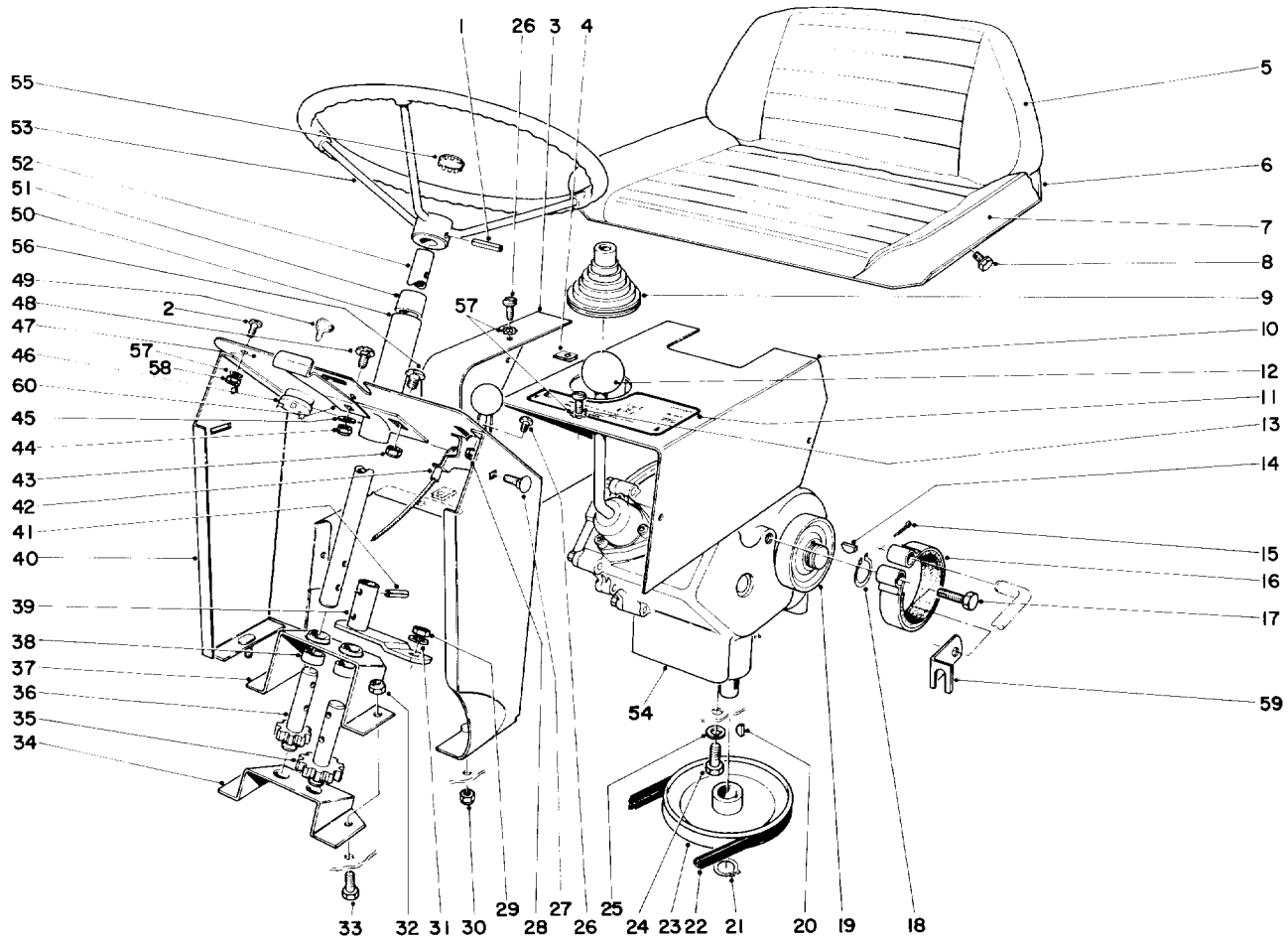
*Not Illustrated



HOOD AND ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
*	7-4910	Grille Assembly (Electric)	1	61	321-2	Capscrew (Electric)	2
50	32152-4S	Nut	4	62	32152-4	Locknut (Electric)	2
51	7-3904	Bracket Gas Tank	1	63	218-75	Clip	2
52	3-7501	Washer	4	64	7-5040	Panel Grille	1
53	7-4920	Gas Tank	1	65	222-16	Cap Gas Tank	1
54	321-8	Capscrew	4	66	7-5210	Oil Minder (Recoil)	1
55	7-4310	Belt Retainer	1	67	3296-12	Nut	5
56	3253-24	Lockwasher	2	68	7-6810	Engine Pulley used on Model # 57204-000451 thru 000877	1
57	7-4600	Decal Gas Tank	1	69	7-6820	Adapter used on Model # 57204-000451 thru 000877	1
58	3256-3	Flat Washer	2	70	32121-24	Roll Pin used on Model # 57204-000451 thru 000877	2
59	7-4510	Trimmer Support (Electric)	1				
60	7-4610	Trimmer Clip (Electric)	1				

*Not Illustrated

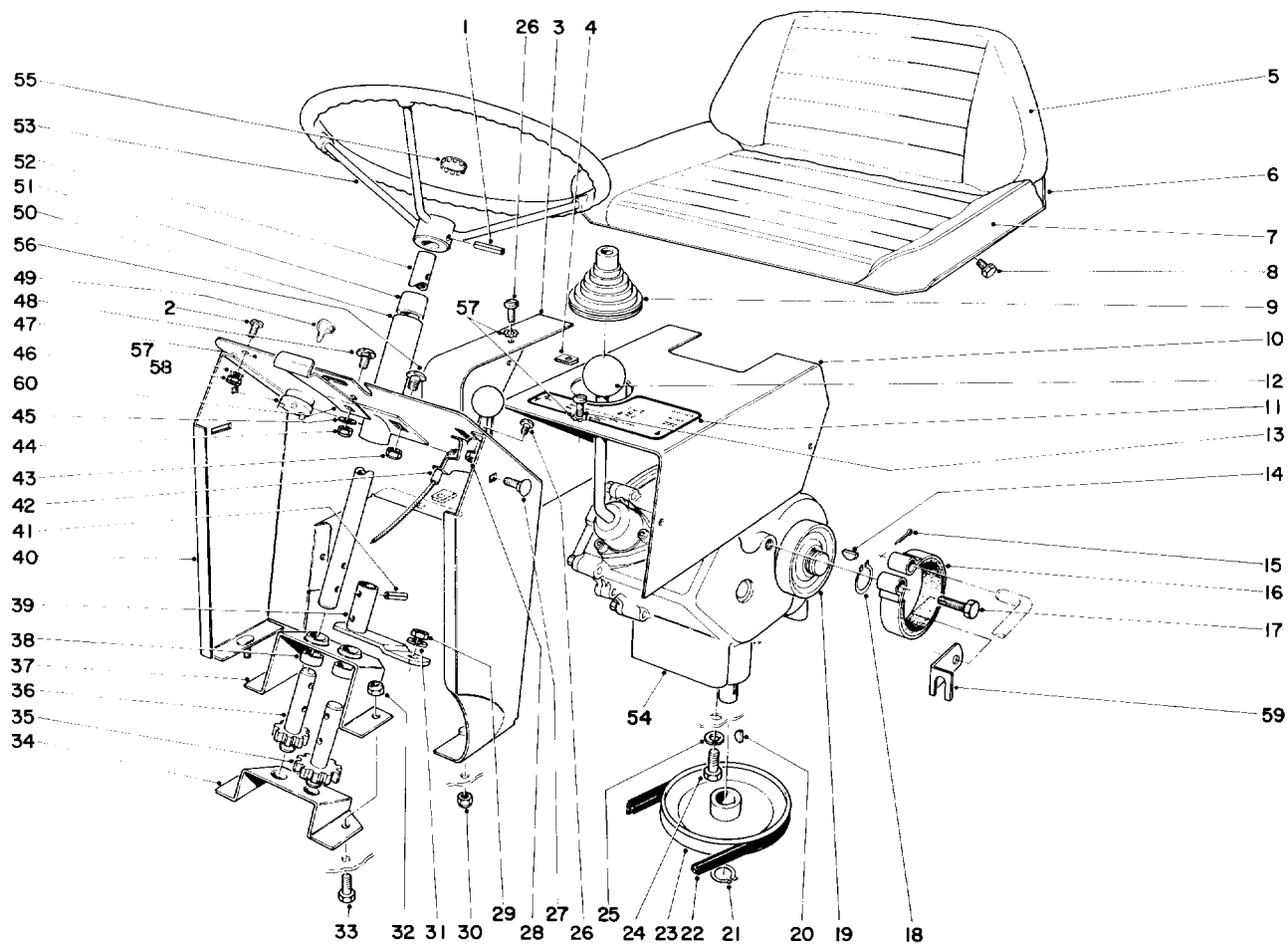


STEERING AND TRANSMISSION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32121-15	Roll Pin	1
2	3290-305	Screw	4
3	7-3873	Chain Guard	1
4	3290-191	Clip Tinnerman	5
5	7-3351	Cushion Back	1
6	7-3871	Frame Seat	1
7	7-3872	Cushion Seat	1
8	32140-16	Self Tapping Screw	5
9	7-3893	Boot Shift Lever	1
10	7-3784	Cover Transmission	1
11	7-5200	Decal Shift Pattern	1
12	233-21S	Knob	1
13	3290-111	Screw Cross Recess Truss Head	4
14	3257-5	Woodruff Key	1
15	3272-5	Cotter Pin	1
16	7-6340	Brake Band	1
17	32104-28	Bolt Self Tapping	1
18	32120-72	Retaining Ring	1
19	7-3785	Brake Drum	1
20	3257-32	Woodruff Key	1
21	32120-64	Retaining Ring	1
22	7-3890	Belt Transmission to Engine	1
23	7-4085	Pulley	1
24	322-2	Capscrew	2

Ref. No.	Part No.	Description	No. Used
25	3253-24	Lockwasher	2
26	3290-305	Screw	7
27	3229-11	Carriage Bolt	2
28	32149-7	Nut	2
29	3219-3	Nut	1
30	32152-4S	Nut	2
31	3253-21	Lockwasher	1
32	32152-1S	Nut	2
33	322-3	Capscrew	2
34	7-3710	Bracket Steering	1
35	7-3733	Steering Gear Assembly	1
36	7-3734	Pinion Gear Assembly	1
37	7-3711	Support Steering	1
38	7-3747	Spacer	2
39	7-3883	Steering Arm Assembly	1
40	7-4940	Rear Hood Support (Recoil)	1
*	7-4810	Rear Hood Support (Electric)	1
41	32121-4	Roll Pin	2
42	7-4100	Throttle Control	1
43	32152-1S	Nut	2
44	32152-4	Nut	1
45	3256-22	Washer	1
46	7-5240	Starter Switch (Electric)	1
47	7-4870	Decal Control Panel (Recoil)	1

*Not Illustrated

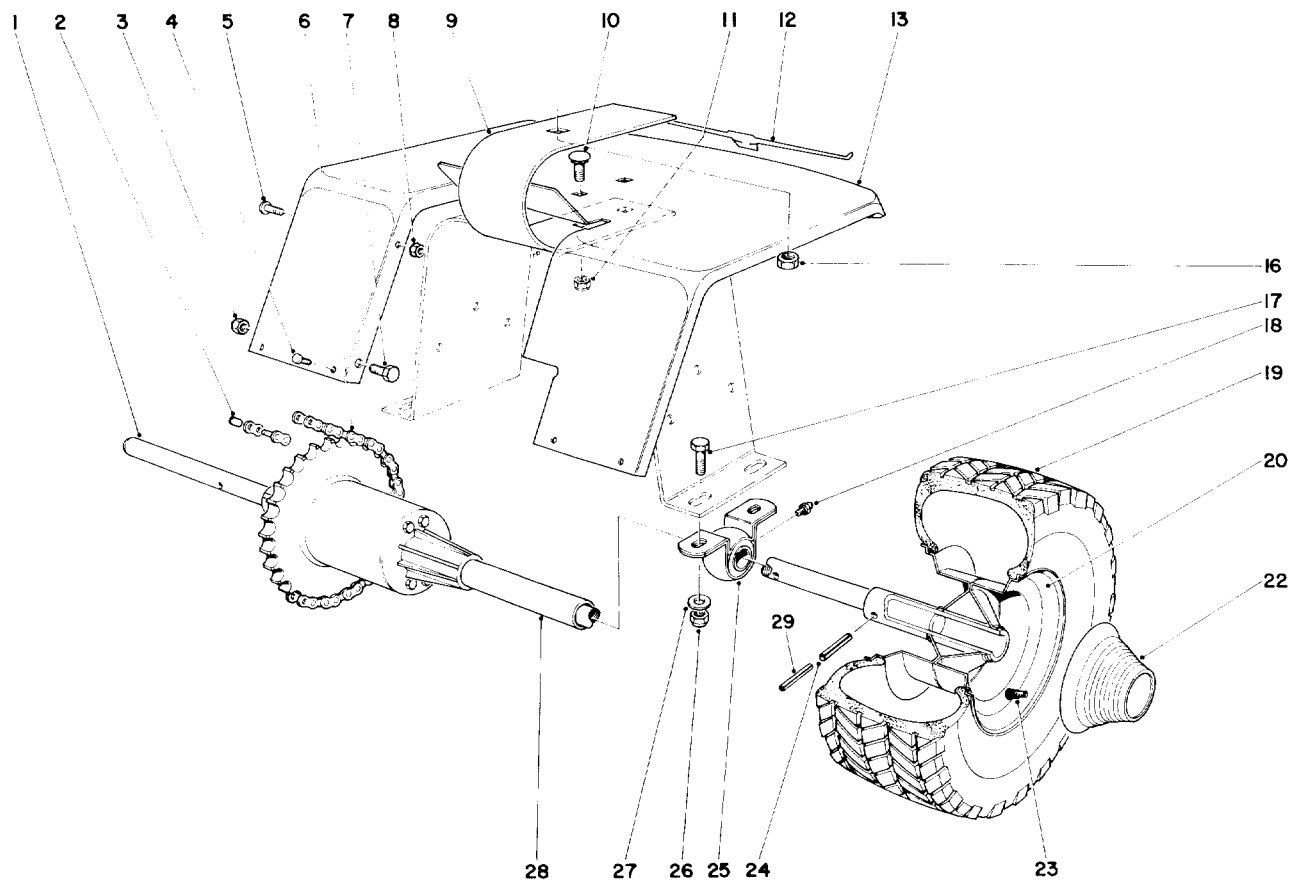


STEERING AND TRANSMISSION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
*	7-4890	Decal Control Panel (Electric)	1
48	3229-23	Carriage Bolt	1
49	218-412	Ignition Key (Electric)	1
50	7-3725	Steering Tube Incl. Ref. #51	1
51	256-167	Bushing	1
52	7-3723	Steering Shaft	1
53	7-3722	Steering Wheel	1

Ref. No.	Part No.	Description	No. Used
54	7-3708	Transmission	1
55	7-3892	Plug	1
56	3258-158S	Screw Cross Recess Truss Head	2
57	3255-17	Lockwasher	5
58	32149-7	Nut	4
59	7-6300	Retainer, Brake Rod	1
60	7-5080	Latch, Hood	1

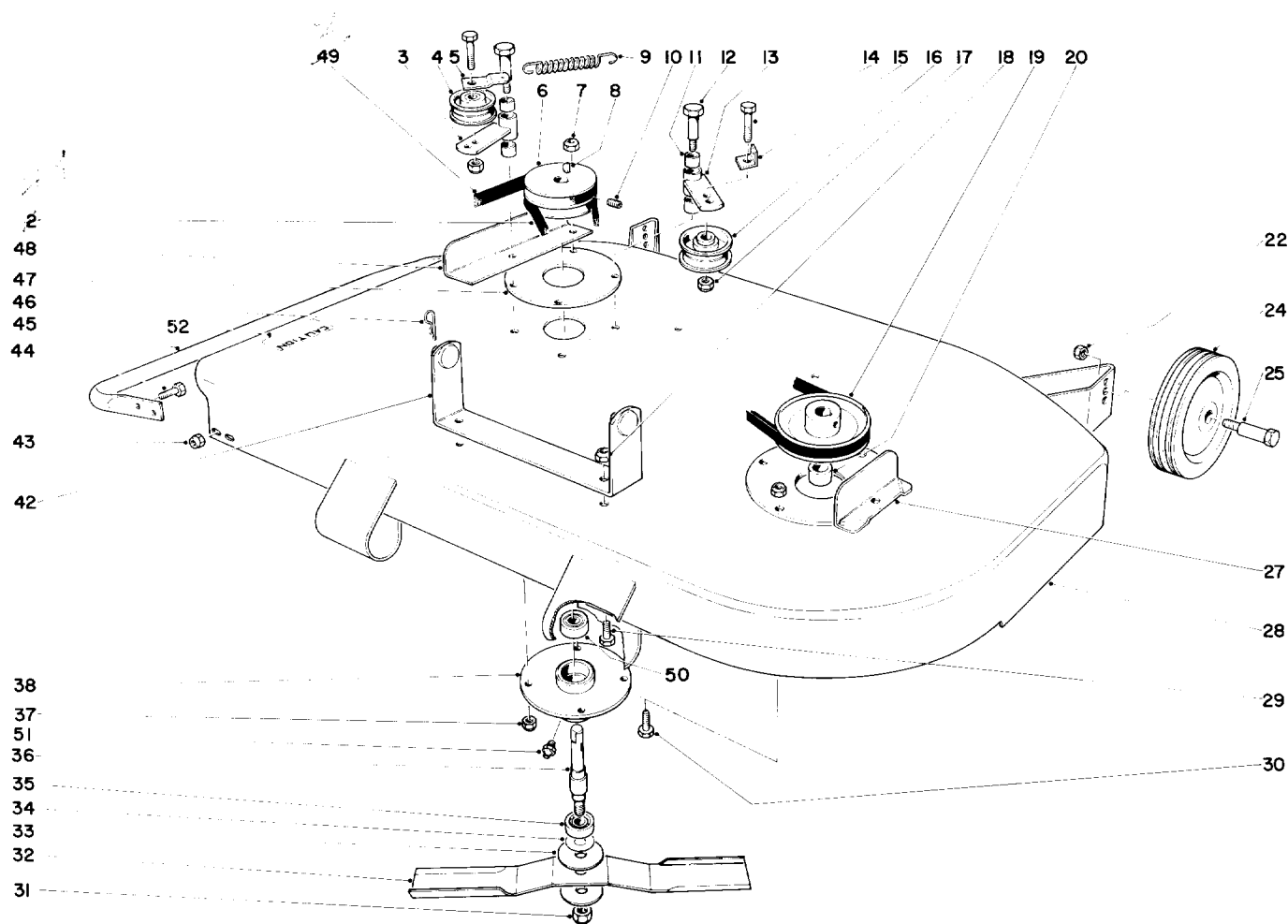
* Not Illustrated



REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-3692	Differential Assembly	1
2	2710-6	Connecting Link	1
3	32152-1S	Nut	2
4	3290-111S	Machine Screw Pan Head	4
5	3290-111S	Machine Screw Pan Head	2
6	7-3786	Roller Chain	1
7	322-3	Capscrew	2
8	32149-7	Nut	2
9	7-3674	Seat Spring	1
10	3231-2	Carriage Bolt	2
11	32152-2S	Nut	2
12	7-3908	Decal Rear	1
13	7-3745	Fender	1
16	32152-3S	Nut	1

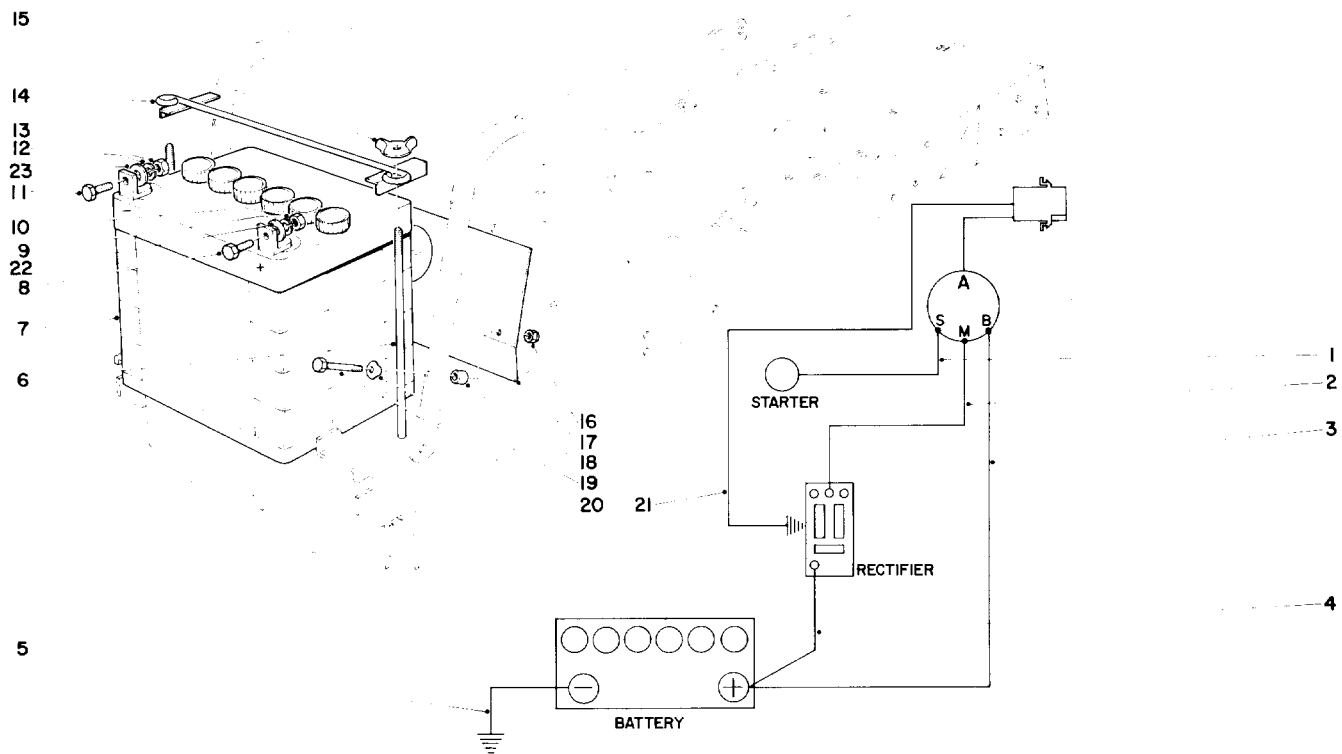
Ref. No.	Part No.	Description	No. Used
17	323-4	Capscrew	4
18	302-5	Grease Fitting	2
19	231-56S	Tire	2
20	217-70S	Rim	2
22	7-3933	Hub Cap Rear	2
23	232-27S	Valve Stem & Cap	2
24	32121-9	Roll Pin	2
25	7-3770	Pillow Block	2
26	32152-2S	Nut	4
27	3256-4	Washer	4
28	7-3877	Tube Rear Axle	1
29	32121-51	Roll Pin	2
	7-3704	Wheel Assy. Rear	2



32" MOWER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
2	7-3975	Belt Front Pulley to Mower	1
3	7-3780	Idler Plate Incl. Ref. #11	1
4	7-4660	Idler Pulley	1
5	7-4382	Clip Idler	1
6	7-3788	Pulley Blade Spindle	1
7	32152-1S	Nut	4
8	3257-5	Woodruff Key	2
9	7-3977	Spring Tension	1
10	3246-2	Set Screw	4
11	256-172S	Bushing	4
12	7-3878	Bolt Shoulder	2
13	7-3781	Idler Plate Incl. Ref. #11	1
14	323-8	Capscrew	2
15	7-3976	Spring Bracket	1
16	7-0136	Pulley Idler	1
17	32152-2S	Nut	2
18	32152-1S	Nut	4
19	7-3796	Pulley	1
20	7-3747	Spacer Blade Spindle	1
22	32152-2S	Nut	2
24	241-87S	Wheel	2
25	7-0262	Axle Wheel	2
27	7-3994	Belt Guard	1

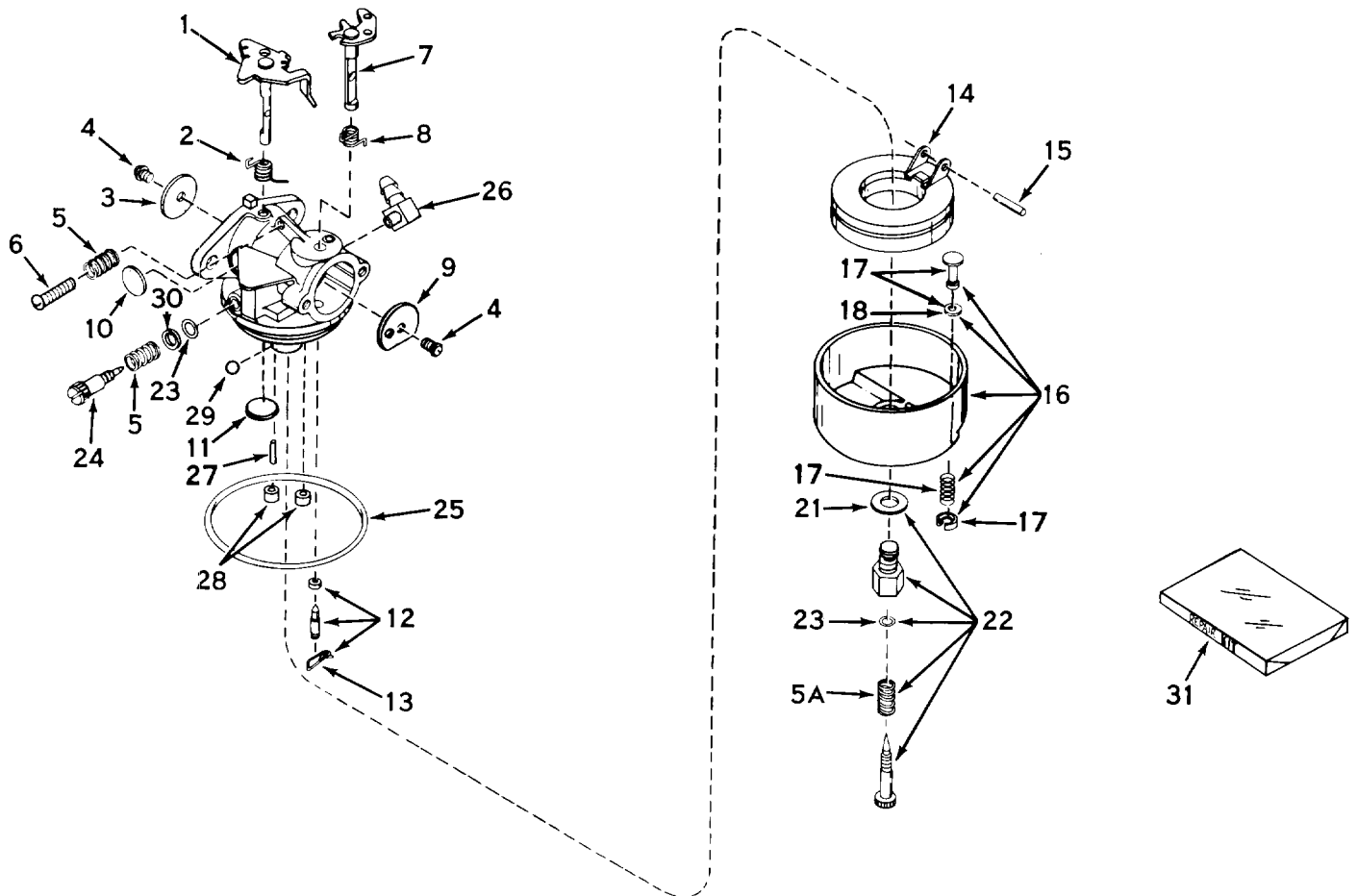
Ref. No.	Part No.	Description	No. Used
28	7-5010	Housing Assembly	1
29	322-3	Capscrew	4
30	322-4	Capscrew	6
31	32152-6S	Nut	2
32	7-0955	Blade	2
33	7-0253	Washer	4
34	7-3590	Washer	2
35	251-5	Bearing	2
36	7-3791	Blade Spindle	2
37	32152-1S	Nut	4
38	7-0963	Mower Spindle Housing	2
42	7-3783	Height Adjustment Bracket	2
43	32152-4S	Nut	4
44	321-3	Capscrew	4
45	7-3864	Blade Guard	1
46	3290-250	Hair Pin Cotter	4
47	7-0252	Washer	2
48	7-3782	Guard	1
49	3-6348	Belt 7-6740	1
50	251-123	Bearing	2
51	302-5	Grease Fitting	2
52	7-6630	Caution Decal	1
	7-5110	Complete Mower Assembly	1



ELECTRICAL DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	7-4081	Wire Assy. Switch to Starter	1
2	7-5220	Wire Assy. Switch to Magneto	1
3	7-4082	Wire Assy. Switch to Battery	1
4	7-4083	Wire Assy. Battery to Engine	1
5	7-4080	Wire Assy. Battery to Ground	1
6	7-3328	Battery Bolt	2
7	239-15	Battery	1
8	322-3	Capscrew	1
9	3253-24	Lockwasher	1
10	3217-6	Nut	1
11	321-4	Capscrew	1
12	3253-3	Lockwasher	1

Ref. No.	Part No.	Description	No. Used
13	3217-5	Nut	1
14	7-5000	Battery Clamp Assy.	1
15	32103-12	Wing Nut	2
16	32152-4S	Nut	2
17	7-4332	Heat Shield	1
18	7-3315	Spacer	2
19	3-7501	Washer	2
20	321-9	Capscrew	2
21	7-5230	Wire Assembly	1
22	3256-3	Washer	1
23	3256-22	Washer	1

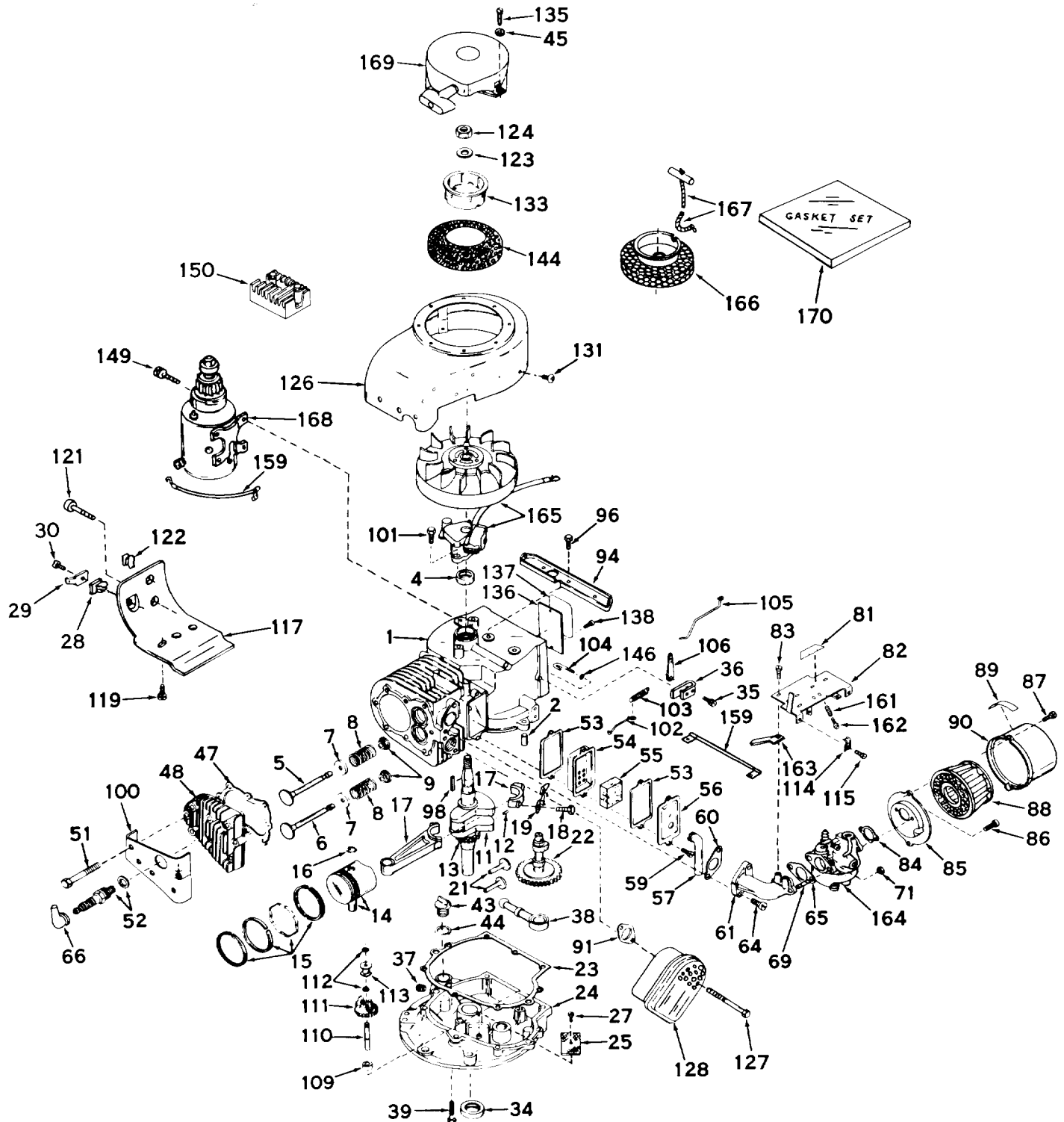


MODEL 631447 CARBURETOR ASSEMBLY

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, Rd. Hd.	2
5	630766	Spring, Idle regulating Screw	2
5A	630738	Spring, Main adjustment 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

Ref. No.	Part No.	Description	No. Used
16	631025	Bowl & Drain Assy., Float (Incl. No. 17)	1
17	27136A	Plunger Assy., Drain (Incl. No. 18)	1
18	27554	Gasket, Drain plunger	1
21	27110	Gasket, Bowl-to-body	1
22	*631026	Adjustment Screw Assy., Main (Incl. Nos. 5A, 21 & 23)	1
23	*630740	"O" Ring, Adjustment screw	2
24	*631078	Screw, Idle adjustment	1
25	*631028	"O" Ring, Bowl-to-body	1
26	631038	Fitting, Fuel inlet	1
27	631039	Pin	1
28	630747	Plug, Cup	2
29	631081	Ball, Aluminum	1
30	630739	Washer, Flat	1
31	631029	Repair Kit (Incl. items marked *)	1

ENGINE MODELS NO. V70-125129 (RECOIL) AND NO. V70-125130 (ELECTRIC)



Ref. No.	Part No.	Description	No. Used
1	32640	Cylinder Assy. (Incl. Nos. 2 & 4)	1
2	27652	Pin, Dowel	2
4	*32630	Seal, Oil	1
5	32783	Valve, Intake (Std.) (Incl. No. 9)	1
5	32784	Valve, Intake (1/32" oversize) (Incl. No. 9)	1
6	27878A	Valve, Exhaust (Std.) (Incl. No. 9)	1
6	27880A	Valve, Exhaust (1/32" oversize) (Incl. No. 9)	1
7	27882	Cap, Upper valve spring	2
8	27881	Spring, Valve	2
9	32581	Cap, Lower valve spring	2
11	32847	Crankshaft Assy. (Incl. Nos. 12 & 13) (Model V70-125129)	1
11	33029	Crankshaft Assy. (Incl. Nos. 12 & 13) (Model V70-125130)	1
12	29783	Pin, Crankshaft gear	1
13	27884	Gear, Crankshaft	1
14	32592	Piston & Pin Assy. (Incl. 2 of No. 16) (Std.)	1
14	32593	Piston & Pin Assy. (Incl. 2 of No. 16) (.010 oversize)	1
14	32594	Piston & Pin Assy. (Incl. 2 of No. 16) (.020 oversize)	1
15	32595	Ring Set, Piston (Std.)	1
15	32596	Ring Set, Piston (.010 oversize)	1
15	32597	Ring Set, Piston (.020 oversize)	1
16	27888	Ring, Piston pin retaining	2
17	32591	Rod Assy., Connecting (Incl. Nos. 18 & 19)	1
18	650662	Screw, Connecting rod	2
19	32590	Plate, Lock	1
21	27893	Lifter, Valve	2
22	32114	Camshaft	1
23	*30684	Gasket, Mounting flange	1
24	31471B	Flange Assy., Mounting (Incl. Nos. 25, 27, 34, 37, 43, 44 & 110)	1
25	31355	Screen, Oil filter	1
27	29117	Screw, Slotted hex hd. Self tap	1
28	28545	Grommet (Model V70-125130)	1
29	30843	Terminal (Model V70-125130)	1
30	650643	Screw (Model V70-125130)	1
34	*27897	Seal, Oil	1
35	650548	Screw, Hex washer head	1
36	31335	Clamp, Governor lever	1
37	27642	Plug, Oil drain sq. hd.	1
38	31356	Pump Assy., Oil	1
39	650488	Screw, Hex hd. cap, Sems	7
43	27625	Plug, Oil filler	1
44	*29673	Gasket, Filler plug	1
45	650168	Flatwasher (Model V70-125129)	4

Ref. No.	Part No.	Description	No. Used
47	*32631	Gasket, Cylinder head	1
48	39038A	Head, Cylinder	1
51	28261	Screw, Hex hd. 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	32632	Pipe, Intake	1
64	650378	Screw, Fil. hd. Sems	2
65	*26756	Gasket, Carburetor	1
66	27276	Cover, Spark plug (Model V70-125129)	1
69	32633	Stud	2
71	29752	Nut, Hex, lock	2
81	31495	Decal, Speed control (Model V70-125129)	1
81	31514	Decal, Speed control (Model V70-125130)	1
82	31736	Control Assy., Speed	1
83	30200	Screw, Hex washer hd.	2
84	*27272	Gasket, Air cleaner	1
85	31691	Bracket, Air cleaner	1
86	28820	Screw, Fil. hd. Sems	2
87	650152	Screw, Fil. hd. Sems	2
88	30727	Element, Air cleaner	1
89	31752	Decal, Air cleaner	1
90	31692	Body, Air cleaner	1
91	*27930	Gasket, Exhaust	1
94	28738	Bracket, Blower housing (Incl. No. 131)	1
96	650561	Screw, Hex hd. cap, Sems	2
98	32589	Key, Flywheel	1
100	30939	Cover, Cylinder head	1
101	650489	Screw, Hex hd. cap, Sems (Model V70-125129)	2
101	650516	Screw, Hex hd. cap, Sems (Model V70-125130)	2
102	32582	Link, Governor spring	1
103	31361	Spring, Governor	1
104	30669	Rod, Governor (Inc. No. 146)	1
105	31823	Link, Throttle	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, Condiut	1

MODELS V70-125129 AND V70-125130 ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
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. Sems	1
122	27275	Clip, Hi-tension wire retaining	2
123	650490	Washer, Belleville	1
124	8116	Nut, Hex	1
126	31472	Housing, Blower (Model V70-125129)	1
126	32296	Housing, Blower (Model V70-125130)	1
127	27931	Screw	2
128	28269	Muffler Assembly	1
131	29747A	Screw, Fil. hd. mach., Sems	2
133	32125	Cup, Starter (Model V70-125129)	1
135	30513	Screw, Hex hd. Sems, (Model V70-125129)	4
136	31345	Plate, Identification	1
137	31865	Decal, Name & Instruction	1
138	28670	Screw, Drive	2
144	590417	Screen, Starter cup (Model V70-125129)	1
146	28277	Washer, Flat	1

Ref. No.	Part No.	Description	No. Used
149	30688	Screw, Fil. hd. Sems, (Model V70-125130)	4
150	610749	Regulator, Rectifier (Model V70-125130)	1
159	28468	Wire, Ground (Model V70-125129)	1
159	30831	Wire, Ground (Model V70-125130)	1
161	31342	Spring, Compression	1
162	650549	Screw, Fil. hd. mach.	1
163	32704	Clip	1
164	631447	Carburetor	1
165	610689A	Magneto (Model V70-125129)	1
165	610816	Magneto, Alternator (Model V70-125130)	1
166	28301	Hub & Screen, Rope Starter (Model V70-125130)	1
167	590343	Rope & Handle, Starter (Model V70-125130)	1
168	**29965	Motor, Starter (Model V70-125130)	1
168	**32468A	Motor, Starter (Model V70-125130)	1
169	590420	Starter, Rewind (Model V70-125129)	1
170	32658	Gasket Set (Incl. items marked*)	1

**The 29965 and 32468A starter motors used interchangeably. Refer to service number stamped on end cap of motor for identification.

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.

Warranty

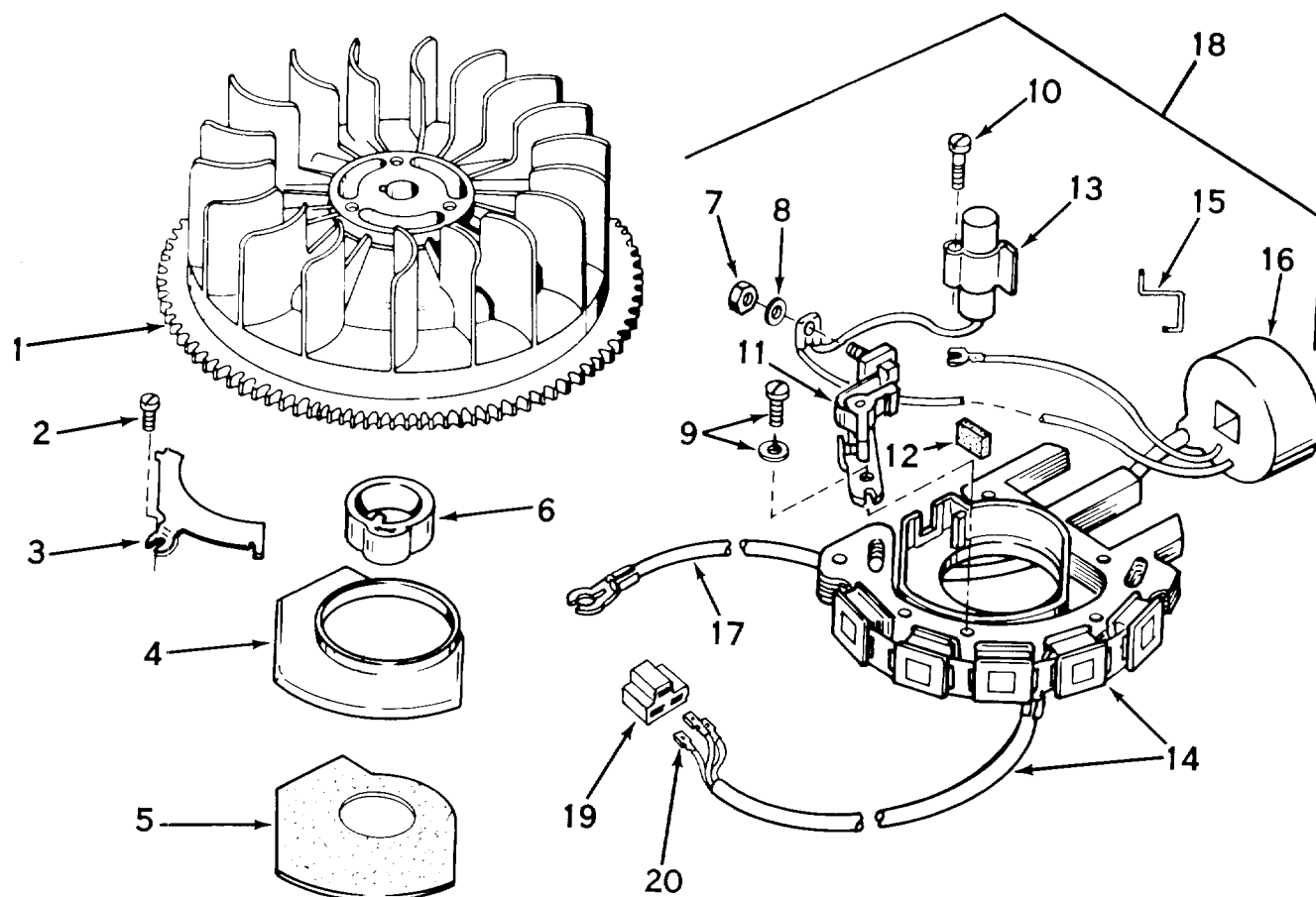
The Manufacturer warrants each new piece of equipment sold to be free of defects in material and workmanship. For one year from the purchase date of consumer line equipment or 45 days if sold for commercial use, Toro Manufacturing Corporation will repair or replace for the original purchaser, free of charge, through any Authorized Service Dealer, any part or parts found at our factory in Minneapolis, Minnesota, to be defective under normal use and service. All institutional equipment is warranted for ninety (90) days from the purchase date.

This Warranty does not obligate the Manufacturer to bear the cost of transportation charges in connection

with the replacement or repair of defective parts - - nor shall it apply to a machine upon which repairs or alterations have been made, unless authorized by the manufacturer.

This Warranty does not include nor cover standard accessories produced by other manufacturers. Such accessories have separate warranties by their respective manufacturers . . . and repair or exchange will be made on the basis of such warranties, and the policies authorized by them shall be adhered to.

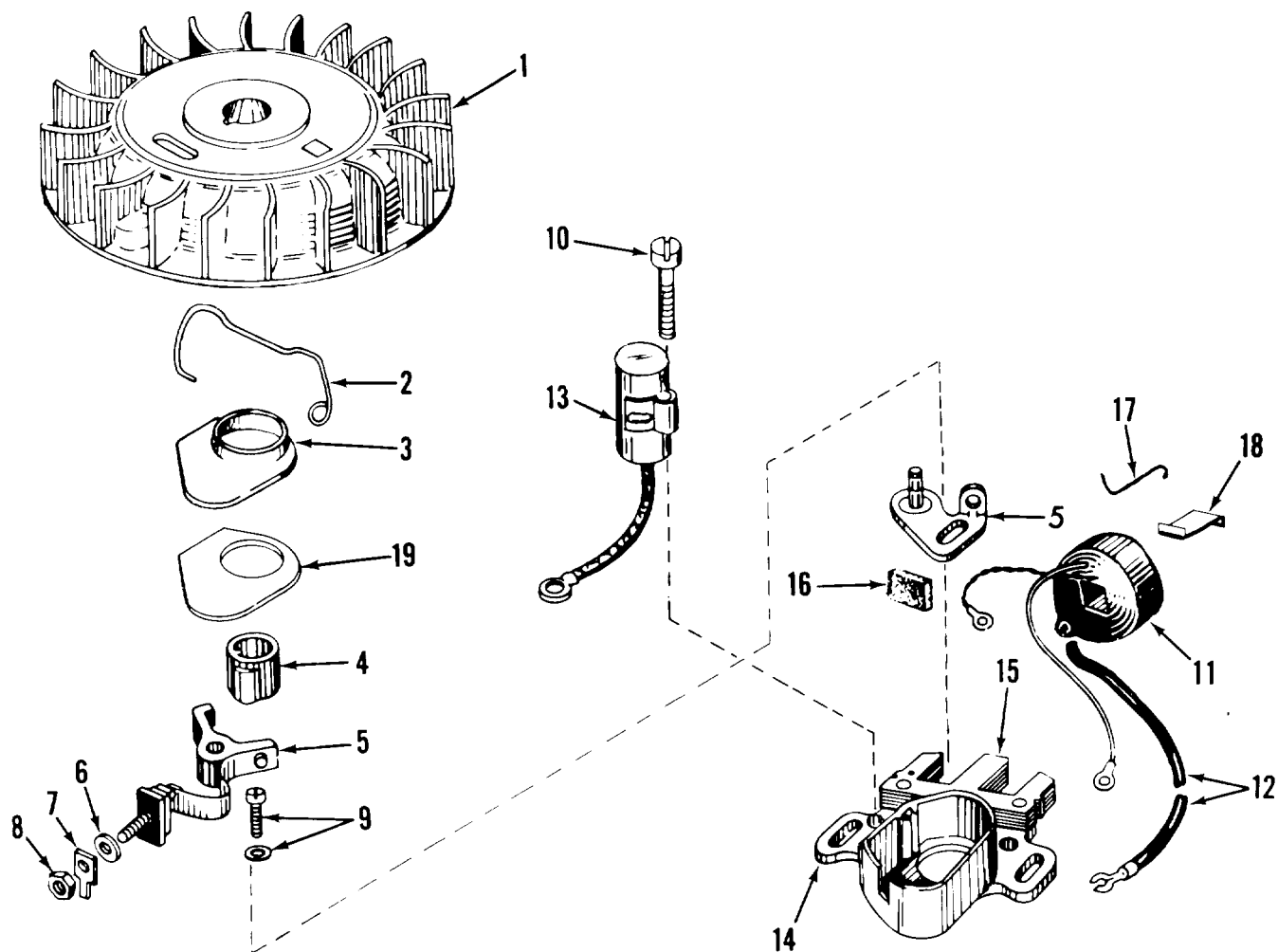
This Warranty is in lieu of all other warranties expressed or implied.



MODEL 610816 MAGNETO ASSEMBLY (ELECTRIC)

Ref. No.	Part No.	Description	No. Used
1	32333	Flywheel	1
2	610762	Screw, Dust Cover	1
3	32435	Clamp, Dust Cover	1
4	32365	Cover, Breaker Assy.	1
5	32993	Gasket, Dust Cover	1
6	32334	Cam, Breaker	1
7	610408	Nut, Terminal	1
8	610385	Washer, Terminal	1
9	29181	Screw & Lockwasher	1
10	610593	Screw, Condenser Fastening	1
11	32434	Contact Assy., Breaker	1

Ref. No.	Part No.	Description	No. Used
12	30549	Felt, Cam Wiper	1
13	610767	Condenser	1
14	610818	Stator Core & Generating Coils (Incl. Nos. 19 & 20)	1
15	31311	Clip, Coils	1
16	610768	Coil	1
17	30554	Wire, Lead	1
18	610817	Stator Plate Assy. (Incl. Nos. 2 thru 5, 7 thru 17, 19 & 20)	1
19	610819	Connector, Pyramid	1
20	610820	Terminal	1

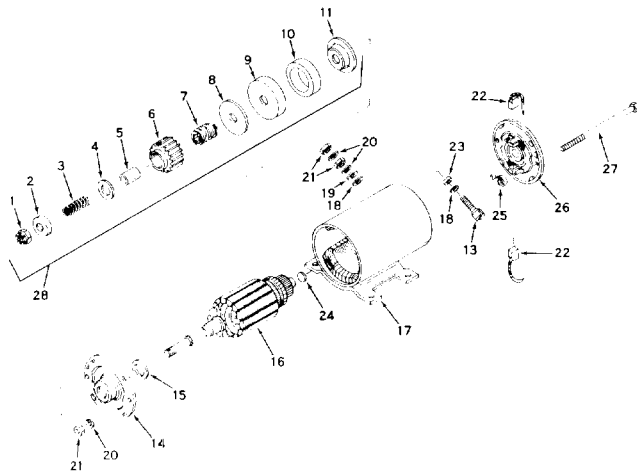


MODEL 610689A MAGNETO ASSEMBLY (RECOIL)

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

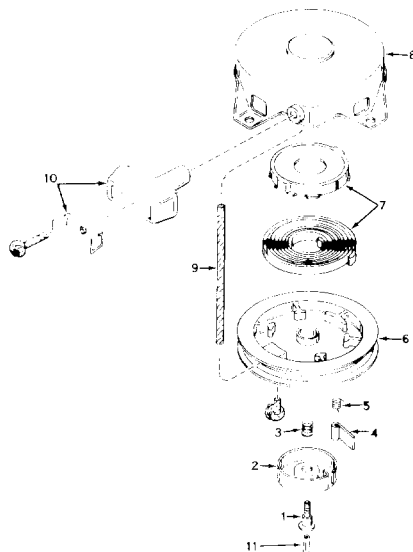
Ref. No.	Part No.	Description	No. Used
11	30560	Coil Assy., (Incl. Ref. Nos. 12, 13 & 18)	1
12	30554	Wire, Lead	1
13	30548A	Condenser	1
14	30545	Core & Plate	1
15	30461A	Stator Assy., (Incl. Nos. 2, 3, 5 thru 14 & 16 thru 19)	1
16	30549	Felt, Cam Wiper	1
17	31311	Clip, Coil Locking	1
18	29629	Spring, Coil Wedge	1
19	30883	Gasket, Dust Cover	1

MODEL 32468A (ELECTRIC) STARTER MOTOR ASSEMBLY

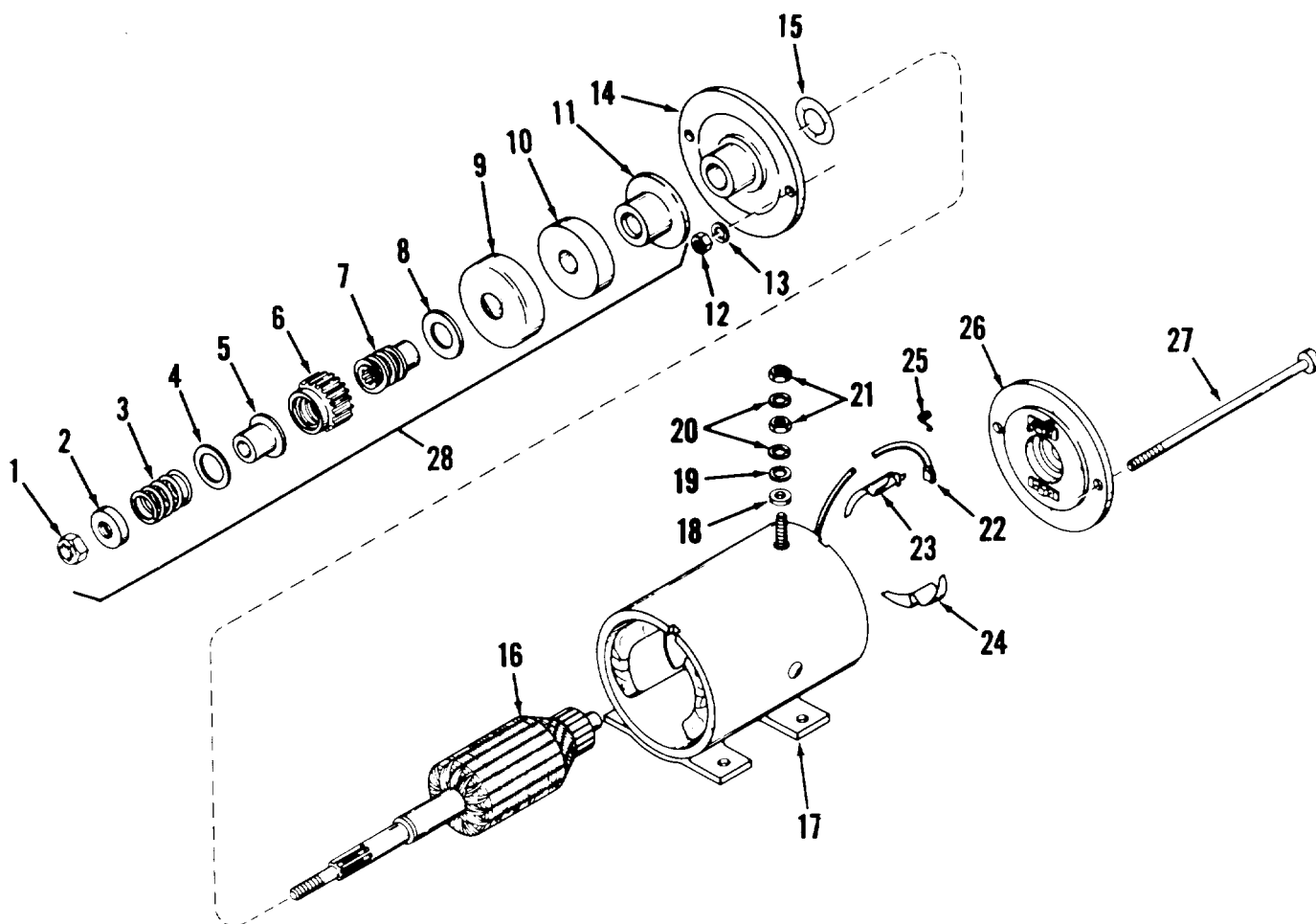


Ref. No.	Part No.	Description	No. Used
1	32483	Nut, Hex	1
2	32484	Stop, Pinion	1
3	32485	Spring, Anti-drift	1
4	32486	Washer, Pinion	1
5	32487	Sleeve, Anti-drift	1
6	32488	Gear, Pinion	1
7	32489	Shaft, Screw	1
8	32490	Washer, Thrust	1
9	32491	Cup, Cushion	1
10	32492	Cushion, Rubber	1
11	32493	Washer, Thrust	1
13	32499	Bolt, Terminal	1
14	32494	Cap Assy., Drive End (Incl. Bearing)	1
15	32495	Washer, Spacing (.024 thick)	2
15	32496	Washer, Spacing (.008 thick)	2
16	32497	Armature	1
17	32843	Housing Assy. (Incl. pole shoes, field coils, terminal post, straight mounting bracket, Nos. 18 thru 21)	1
18	32500	Washer, Insulating	2
19	650168	Washer, Plain	1
20	650131	Washer, Lock	4
21	28710	Nut, Hex	4
22	32838	Brush & Spring Kit	1
23	32501	Bushing, Insulating	1
24	32509	Washer, Spacing	1
25	32837	Spring, Brush	2
26	32842	End Cap Assy., Commutator	1
27	32508	Bolt, Thru	2
28	32481	Drive Assy., Complete (Incl. Nos. 1 thru 11)	1

MODEL 590420 REWIND STARTER ASSEMBLY (RECOIL)



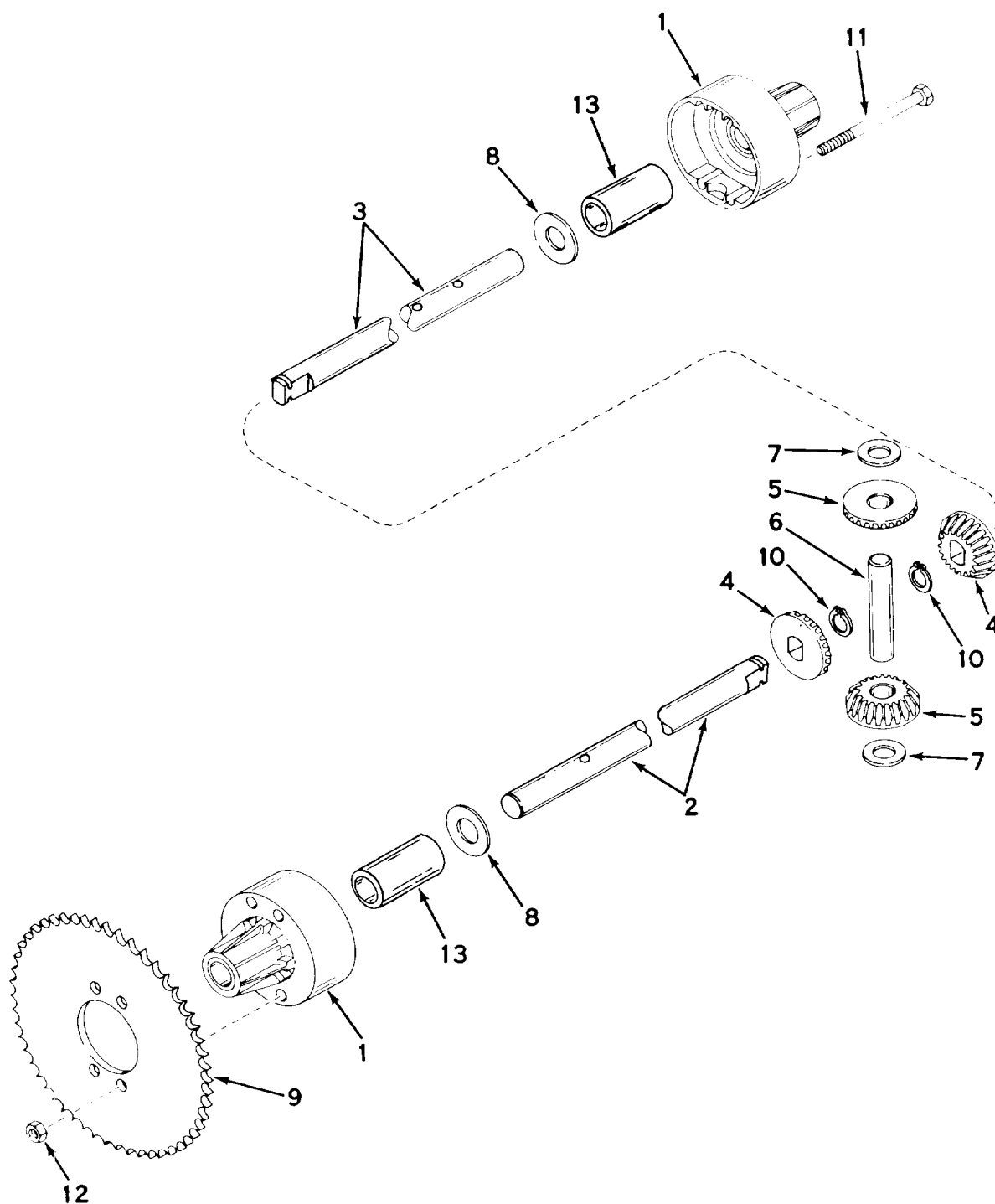
Ref. No.	Part No.	Description	No. Used
1	590409	Screw, Retainer	1
2	590410	Retainer, R. H.	1
3	590411	Spring, Brake	1
4	590148	Dog, Starter	1
5	590412	Spring, R. H. Dog	1
6	590413A	Pulley	1
7	590414	Spring & Keeper Assy.	1
8	590415	Housing Assy., Starter	1
9	590386	Rope, Starter	1
10	590387	Handle Assy., Starter	1
11	590459	Pin, Centering	1



MODEL 29965 STARTER MOTOR ASSEMBLY (ELECTRIC)

Ref. No.	Part No.	Description	No. Used
1	30004	Nut, Elastic Stop	1
2	28692	Stop. Pinion	1
3	28693	Spring, Anti-drift	1
4	28694	Washer, Pinion	1
5	28695	Sleeve, Anti-drift	1
6	30005	Gear, Pinion	1
7	30006	Shaft, Screw	1
8	30007	Washer, Thrust	1
9	30008	Cup, Cushion	1
10	30009	Cushion, Rubber	1
11	30010	Washer, Thrust	1
12	30011	Nut, Securing	2
13	30012	Washer, Lock	2
14	30013	Cap Assy., Drive End (Incl. Bearing)	1
15	30014	Washer, Spacing (.010 thick) (Use as required)	1
15	30015	Washer, Spacing (.02 thick) (Use as Required)	1

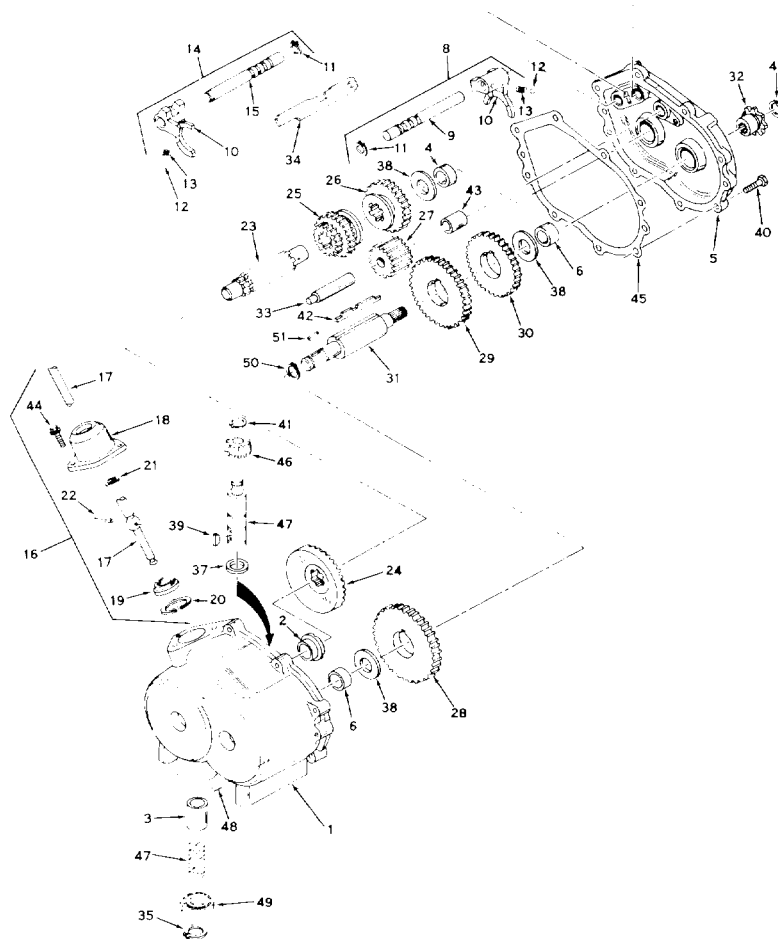
Ref. No.	Part No.	Description	No. Used
16	30016	Armature	1
17	30017	Housing Assy. (Incl. pole shoes, field coils, terminal post, straight mounting bracket, Nos. 18 thru 21, 23, 24, & 1 of 22).	1
18	28707	Washer, Insulating	1
19	28708	Washer, Plain	1
20	28709	Washer, Lock	2
21	28710	Nut, Hex	2
22	30018A	Brush & Spring Kit (Incl. No. 25)	2
23	30019	Insulation	2
24	30020	Insulation	2
25	30021	Spring, Brush	2
26	30022	End Cap Assy., Commutator (Incl. Nos. 25 & 1 of No. 22)	1
27	30023	Bolt, Thru	2
28	30003	Drive Assy., Complete (Incl. Nos. 1 thru 11)	1



DIFFERENTIAL MODEL 120

Ref. No.	Part No.	Description	No. Used
1	774073	Housing, Differential carrier (Incl. No. 13)	1
2	774149	Axle (8 27/32" long)	1
3	774150	Axle (13 23/32" long)	1
4	778067	Gear, Bevel	1
5	778068	Gear, Pinion	1
6	786040	Pin, Drive	1

Ref. No.	Part No.	Description	No. Used
7	780073	Washer, Thrust	1
8	780001	Washer	1
9	786042	Sprocket (40 teeth)	1
10	788038	Ring, Snap	1
11	792041	Screw, Hex hd.	1
12	792042	Nut, Lock	1
13	780077	Bushing	1



MODEL 352 TRANSMISSION

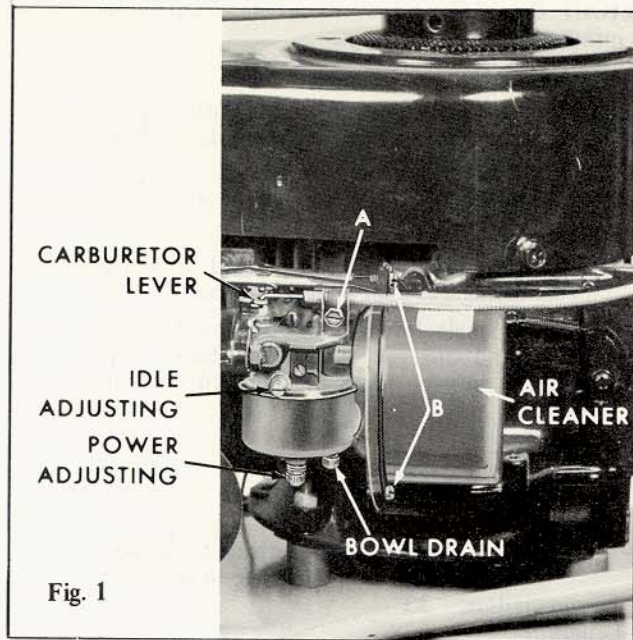
Ref. No.	Part No.	Description	No. Used
1	770048	Case Assy., Transmission (Incl. Nos. 2, 3 & 6)	1
2	780079	Bearing, Bronze	1
3	780087	Bearing, Bronze	1
4	780080	Bearing, Bronze	1
5	772060	Cover Assy., Transmission (Incl. Nos. 4 & 6)	1
6	780081	Bushing, Bronze	1
8	784079	Rod Assy., Shift (Incl. Nos 9 thru 13)	1
9	784083	Rod, Shift	1
10	784004	Fork, Shifter	1
11	792017	Ring, Retainer	1
12	792004	Ball, Steel	1
13	792003	Spring	1
14	784128	Rod Assy., Shift (Incl. Nos. 10 thru 13 & 15)	1
15	784129	Rod, Shift	1
16	784177	Lever & Housing Assy., Shift (Incl. Nos. 17 thru 22)	1
17	784178	Lever, Shift	1
18	784088	Housing, Shift Lever	1
19	784094	Keeper, Shift Lever	1
20	792016	Ring, Snap	1
21	792001	Ring, Quad	1
22	792002	Pin, Roll	1
23	776079	Shaft, Shifter	1

Ref. No.	Part No.	Description	No. Used
24	778070	Gear, Bevel (33 teeth)	1
25	778071	Gear, Shift (1st & 2nd)	1
26	778072	Gear, Shift (3rd & Rev.)	1
27	778073	Idler, Reverse	1
28	778074	Gear (39 teeth)	1
29	778062	Gear (34 teeth)	1
30	778075	Gear (30 teeth)	1
31	776083	Shaft, Output	1
32	786047	Sprocket (8 teeth)	1
33	776081	Shaft, Reverse Idler	1
34	784132	Stop, Shifter	1
35	792035	Ring, Retainer	1
37	780082	Bearing, Thrust	1
38	780001	Washer	1
39	792045	Key, Woodruff	1
40	792046	Screw, Hex hd. self tap	1
41	788040	Ring, Retainer	1
42	792034A	Key, Counter shaft	1
43	786036	Spacer, Reverse idler	1
44	792007	Screw, Socket hd. cap	1
45	788041	Gasket, Transmission	1
46	778077	Pinion, Input	1
47	776098	Shaft, Input	1
48	786026	Pin, Dowel	1
49	780092	Bearing, Ball	1
50	788038	Ring, Retaining	1
51	792047	Key, Woodruff	1

CARBURETOR ADJUSTMENTS

Do not make unnecessary adjustments. Factory settings are correct for most applications. If adjustments are needed, proceed as follows:

1. Close power adjusting needle by turning to right (clockwise). Close finger tight only. Forcing will cause damage. (See Fig. 1)



2. Open one turn (counterclockwise).
3. Close idle adjusting needle by turning to right (clockwise). Close finger tight only. Forcing will cause damage. (See Fig. 1)
4. Open one and one-half turns (1-1/2) counterclockwise.
5. Start Engine. Follow starting instructions in your owner's manual.
6. With Throttle open (carburetor control at "RUN" or "FAST" position), adjust power adjusting needle one-eighth (1/8) turn at a time forward or backward until engine runs smoothly. If engine tends to stall under load enrich mixture slightly (counterclockwise).
7. Hold throttle lever closed or move Carburetor Control to "IDLE" or "SLOW" position and adjust idle adjusting needle until engine runs smoothly, proceeding as in step 6 above.
8. Allow several seconds between each adjustment when performing either step six (6) or seven (7) to allow engine to react to new setting.
9. Maximum engine speeds are preset at factory and should not be changed except by a qualified Toro Service repairman who has the necessary equipment.
10. IMPORTANT: Air cleaner should always be checked or cleaned first prior to carburetor adjustments. In many cases a dirty air cleaner results in unnecessary carburetor adjustments. (See below for servicing air cleaner).

THROTTLE TO CARBURETOR ADJUSTMENT

For proper adjustment of the throttle control to carburetor arm proceed as follows:

- A) With engine shut off, loosen screw "A". (See Fig. 1)
- B) Place throttle control in choke position.

- C) Move carburetor lever to choke position.
- D) Tighten screw "A".
- E) Move throttle control lever to stop position, proper adjustment is when the carburetor arm is in firm contact with the shorting out strap (Copper color), 920 only.

AIR CLEANER SERVICING INSTRUCTIONS

Clean element periodically but more frequently in extreme dust conditions. Clean element when loss of power is also noticeable. To clean element proceed as follows:

- A) Loosen the two screws (B) holding air cleaner element to the carburetor (See Fig. 1).
- B) Remove element from canister by turning counterclockwise.

- C) Tap air cleaner element lightly on a flat surface to clean.
- D) Replace element into canister and reassemble.
- E) Replace element if bent or damaged in any manner.
- F) Replace with a new air cleaner element after approximately 25 hours of use or as environmental conditions dictate.

WARNING

Never operate engine with battery leads disconnected or battery removed from circuit (taken out of equipment) unless both rectifiers are removed from rectifier panel. Failure to observe will burn out fuse and generator.

STORAGE INSTRUCTIONS

In event engine is to be stored for any length of time (30 days or more) or at the end of mowing season, prepare as follows:

1. Drain gas tank completely by removing fuel line at the carburetor or fuel tank, whichever is easier.

CAUTION: Drain into container outdoors away from fire or flame.

2. DRAIN CARBURETOR

Drain by pressing upward on bowl drain. (See Fig. 1).

3. Inside protection of engine for storage is performed by removing spark plug and pouring one ounce of SAE 30 oil through spark plug hole into cylinder. Crank engine without starting several times to spread oil over cylinder walls. Replace spark plug.

SPECIFICATIONS

ENGINE: 7 H.P. 4 cycle, air cooled, paper element air cleaner.

FUEL TANK CAPACITY: One gallon.

TRANSMISSION: 3 speed forward and 1 reverse die cast aluminum housing with enclosed hardened steel gears.

Reductions: 1st — 6.2:1
2nd — 4.1:1
3rd — 3.0:1
Rev. — 3.4:1

TRACTION DRIVE: "4L" section V-belt from 2.75 P.D. engine pulley to 5.25 P.D. transmission input pulley (1.9:1 reduction) No. 41 chain on 3T transmission output shaft to 40T sprocket on differential (5:1 reduction).

Total reduction engine to wheels:

1st — 62:1
2nd — 41:1
3rd — 30:1
Rev. — 34:1

TRANSMISSION LUBRICATION: Permanently lubricated with 12 oz. Valvoline X-All.

DIFFERENTIAL: Die cast aluminum housing with enclosed sintered powder metal bevel gears. 3/4 axle shafts. Permanently lubricated with 1 oz. Valvoline X-All.

SPEEDS: At 3400 engine RPM

1st — 2.4 MPH
2nd — 3.7 MPH
3rd — 5.0 MPH
Rev. — 4.0 MPH

WHEELS: Front and rear — stamped steel discs with drop center rims.

TIRES: Front: 11 x 4.00-5 tubeless pneumatic terra-tire.
Rear: 15 x 6.00-6 tubeless pneumatic terra-tire.

ELECTRICAL SYSTEM: 12 volt battery, starter, 3 amp alternator, key switch.

CONSTRUCTION: 11 gage HRPO steel formed channel with 3/16 steel seat and differential support at rear. 5/8" diameter CRS Spindles. 11 gage front axle. 18 gage one-piece rear fender.

STEERING: 13" Diameter 3 spoke 5" deep dish steering wheel — 2:1 ratio.

CUTTER DRIVE: Belt drive from jackshaft ahead of engine.

CUTTER HOUSING: Semi-floating 13 gage tempered steel housing attached to frame by 1/2 diameter steel pins.

CUTTER WIDTH: 32"

BLADE: Two 8 gage 16" fully hardened alloy steel.

BLADE TIP SPEED: 16,600 FPM @ 3400 engine RPM.

CUTTER SPINDLE: Steel mounted in 2 single rows, double sealed ball bearings.

HEIGHT OF CUT: 1-1/2" to 3-1/4". Control lever with infinite number of settings.

CONTROLS:

ENGINE: Control wire and casing with stop, slow, fast and choke positions mounted on dash. (Recoil). Key for start & stop (Electric).

TRANSMISSION: Single lever with 4 position H pattern.

TRACTION CLUTCH: Foot operated pedal. Depressing pedal disengages idler pulley from belt.

CUTTER: Single lever. Inlock-out position blade belt idler is disengaged and blade brake applied. In engaged position, brake is released and cutter belt engaged.

DIMENSIONS:

Wheel base: 39"
Wheel tread: 23-1/2" front
22" rear
27" front — outside to outside
28" rear — outside to outside
Turning radius: 33"
Length: 52 1/2"
Width: 33 1/2"
Height: 33"

WEIGHT: 260 pounds with 32" cutter (Recoil). 290 pounds with 32" cutter (Electric).

BRAKE: Foot operated pedal — right side. Depressing pedal engages band on 2 1/2" dia. drum.

SAFETY FEATURES: Meets U.S.A.S. Specifications.
Separate brake and clutch control.
Automatic blade brake.
Enclosed and guarded drive.

OPTIONAL EQUIPMENT: 30" Snow Blade attachment
32" Rotary Bagger Kit
Dump Cart
Tire Chains
Roller
Spreader
Aerator
Lawn Sweeper

IMPORTANT ORDERING INSTRUCTIONS

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

1. Serial number of your product as shown on the name plate.
2. Part number, description and quantity of each part required.
3. Name and address where parts are to be shipped.
4. Do NOT order by reference number, use part number only.

MAINTENANCE RECORD

[illegible]

MAINTENANCE RECORD

[illegible]