TORO®

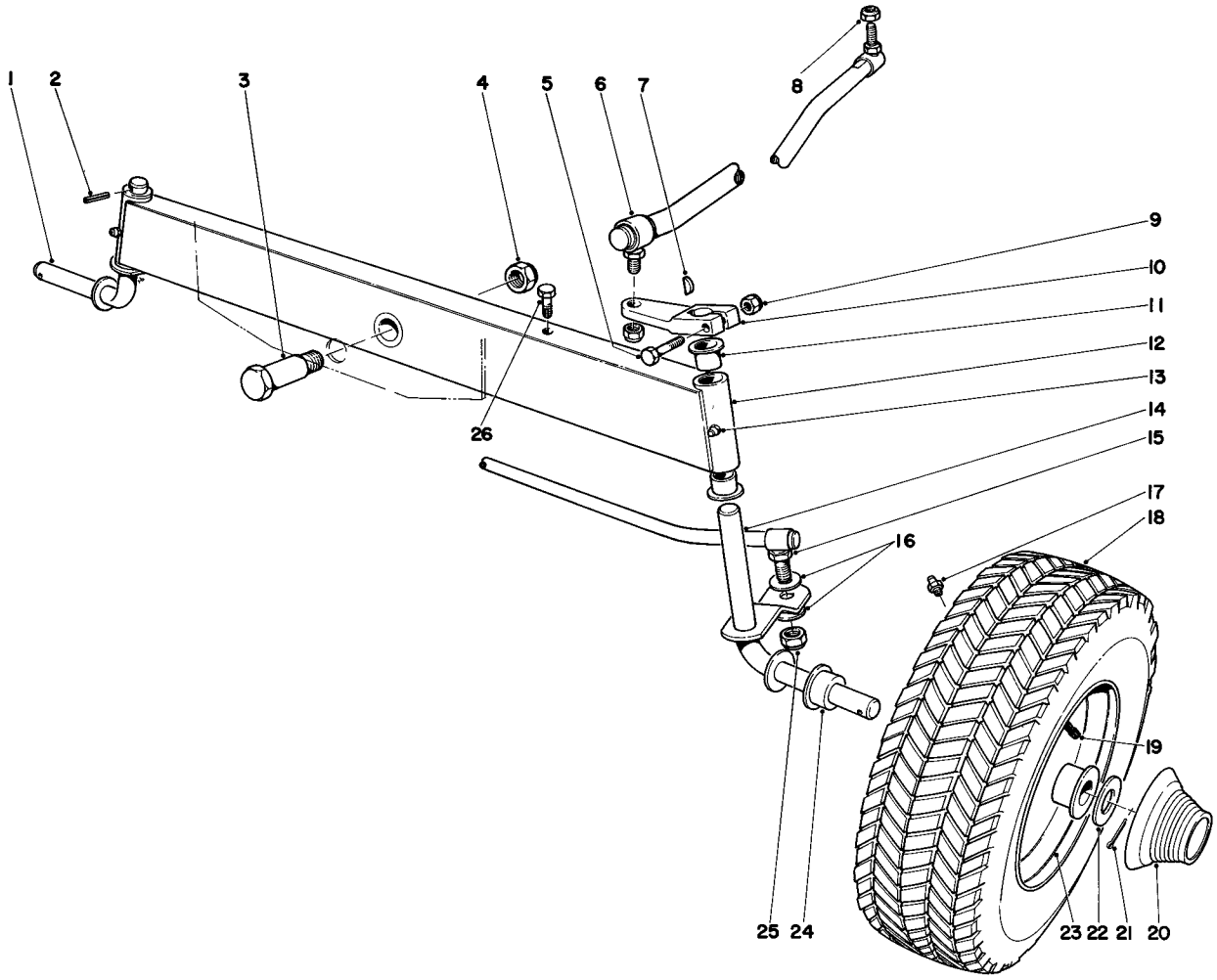
We Take Care™

1971

MODEL NOS. 55256-100001 & UP

PARTS CATALOG

8 H.P. LAWN TRACTOR TOROMATIC® (Electric Start)



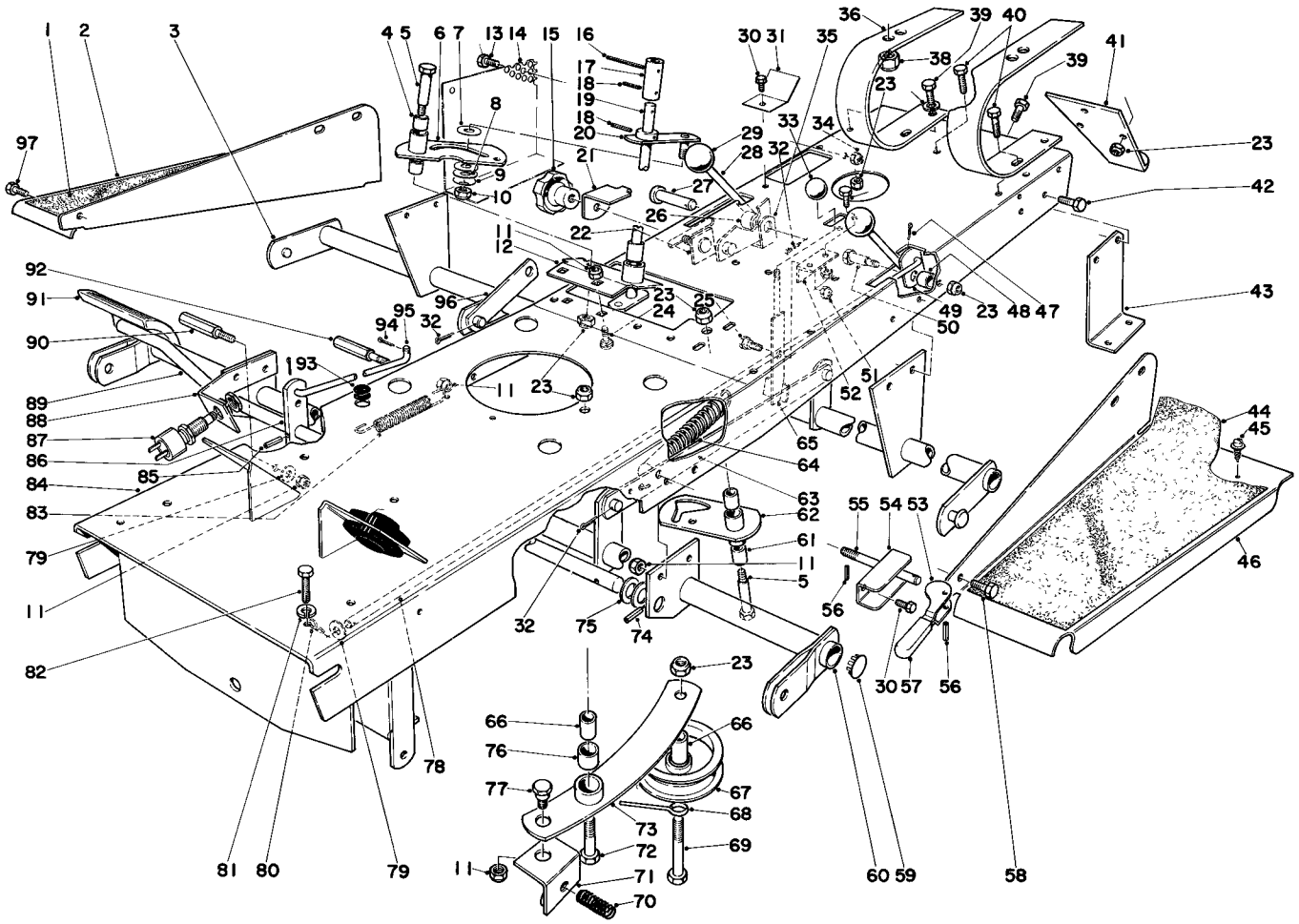
FRONT AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-4061	Spindle R. H.	1
2	32121-24	Roll Pin	1
3	7-3884	Shoulder Bolt	1
4	32152-3	Locknut	1
5	321-9	Capscrew	1
6	7-6330	Drag Link	1
7	3257-3	Woodruff Key	1
8	32146-6	Locknut	2
9	32152-4	Locknut	1
10	7-4067	Arm Drag Link	1
11	256-136	Bushing	4
12	7-4057	Front Axle Incl. Ref. #11	1
13	302-49	Grease Fitting	2

Ref. No.	Part No.	Description	No. Used
14	7-4064	Spindle L. H.	1
15	7-4078	Tie Rod	1
16	3256-41	Flat Washer	4
17	302-5	Grease Fitting	2
18	231-49	Tire	2
19	232-27	Valve Stem	2
20	7-3932	Hub Cap	2
21	3272-23	Cotter Pin	2
22	7-0126	Washer	2
23	241-105	Rim Incl. Ref. #24	2
24	256-175	Bushing	4
25	32146-6	Locknut	2
26	32104-6	Self Tapping Screw	1

Copyright 1971 By
Toro Manufacturing Corporation
Minneapolis, Minnesota 55420 U.S.A.

Price $1.00

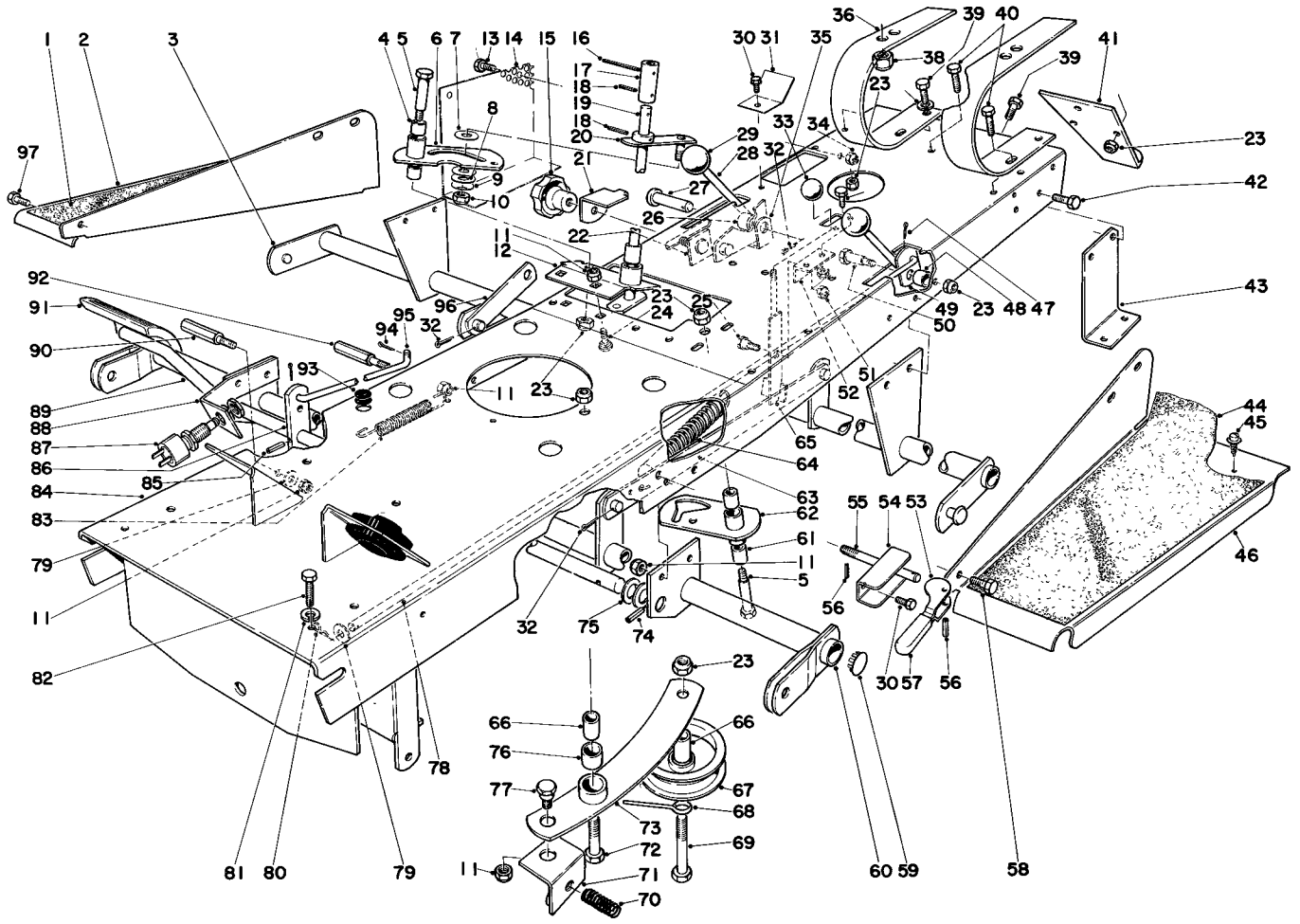


CHASSIS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-4128	Pad R. H.	1
2	7-4033	Foot Rest R. H.	1
3	7-5770	Cross Tube Rear	1
4	256-206	Bushing	2
5	7-0731	Shoulder Bolt	2
6	7-4164	Cam Plate	1
7	7-4182	Friction Washer	2
8	3256-4	Flat Washer	1
9	3290-301	Spring Washer	1
10	3296-44	Locknut	1
11	32152-1	Locknut	11
12	7-4166	Bracket Transmission Control	1
13	321-2	Capscrew	2
14	7-4460	Fan Guard Slide	1
15	7-3902	Knob Height Adjustment	1
16	32121-82	Roll Pin	1
17	7-4181	Sleeve Handle	1
18	32121-45	Roll Pin	2
19	7-4172	Handle Hydro Control	1
20	7-4160	Control Crank	1
21	7-4098	Slide	1
22	7-3667	Knob Plate	1
23	32152-2	Locknut	10
24	3230-1	Carriage Bolt	2
25	7-7850	Shoulder Bolt	1
26	7-4237	Spacer	1

Ref. No.	Part No.	Description	No. Used
27	7-4265	Pin	1
28	7-4076	Lever	1
29	233-24	Knob	2
30	32104-32	Sems Screw	1
31	7-5900	Shield Fan	1
32	3272-7	Cotter Pin	5
33	233-17	Knob	1
34	32152-4	Locknut	2
35	7-4245	Support Height of Cut Lever	1
36	7-7620	Seat Spring	2
37	321-3	Capscrew	2
38	32152-3	Locknut	2
39	323-4	Capscrew	5
40	3235-1	Capscrew	3
41	7-4032	Hitch	1
42	322-2	Capscrew	4
43	7-4187	Support Axle L. H.	1
*	7-4470	Support Axle R. H.	1
44	7-4130	Pad L. H.	1
45	32104-77	Self Tapping Screw	4
46	7-4034	Foot Rest L. H.	1
47	3272-5	Cotter Pin	1
48	7-4070	Spacer	1
49	7-4073	Lever	1
50	7-1784	Shoulder Bolt	1
51	32152-4	Locknut	3

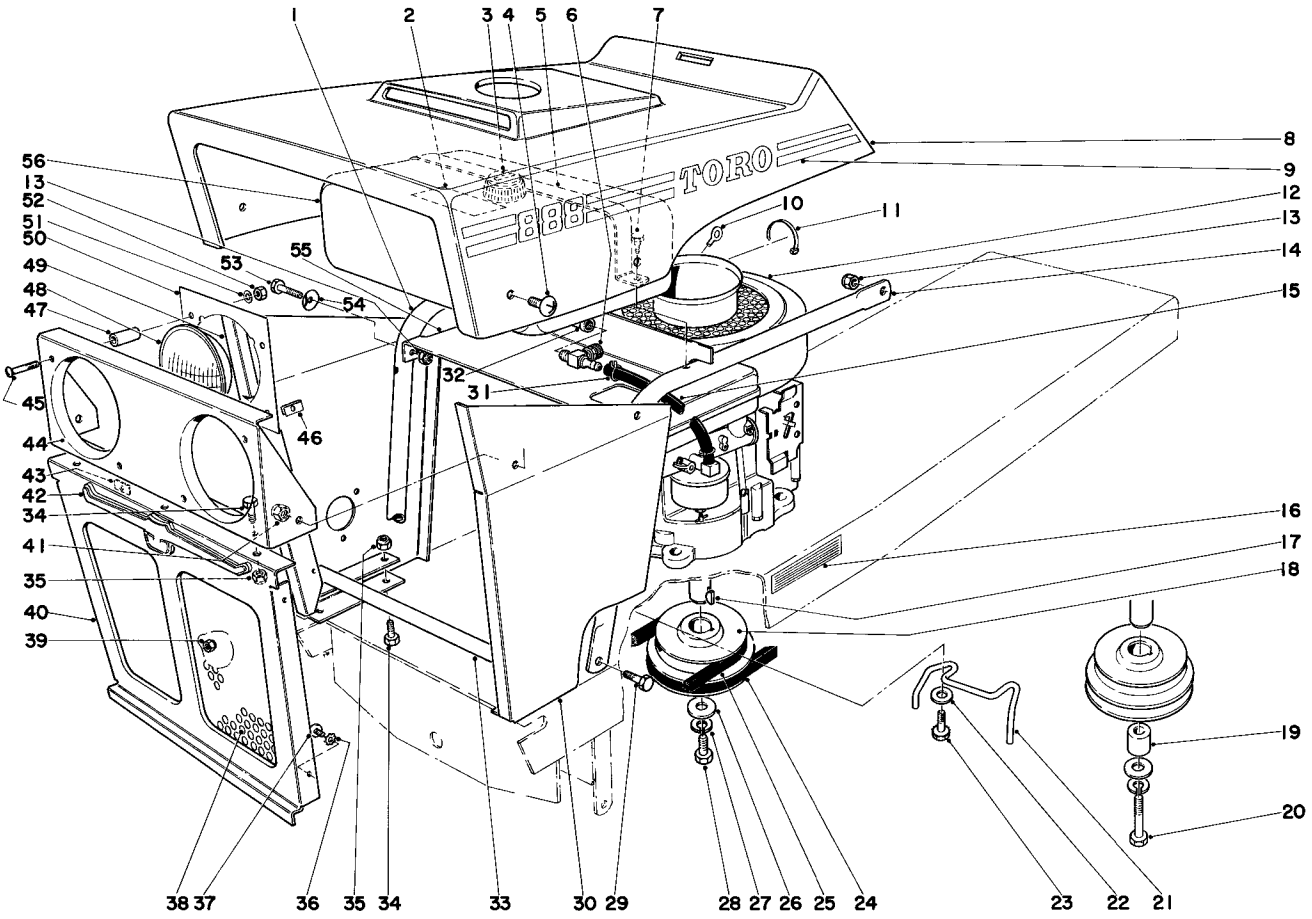
* Not Illustrated



CHASSIS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
52	7-7840	Pivot Bracket	1
53	7-5780	Idler Crank	1
54	7-5850	Retainer Idler	1
55	7-6540	Adjustment Rod	1
56	32121-73	Roll Pin	2
57	7-6560	Handle Grip	1
58	322-3	Capscrew	5
59	2410-26	Plug Button	4
60	7-4022	Cross Tube Front	1
61	256-172	Bushing	2
62	7-4170	Plate Neutralizer	1
63	7-4052	Lift Equalizer	1
64	7-4292	Spring Counterbalance	1
65	7-7800	Drive Lever	1
66	7-6550	Idler Spacer	2
67	7-4660	Idler Pulley	1
68	7-6530	Belt Retainer	1
69	323-12	Capscrew	1
70	7-5840	Compression Spring	1
71	7-5860	Idler Swivel Bracket	1
72	323-8	Capscrew	1
73	7-5830	Idler Bracket	1
74	32121-45	Roll Pin	2

Ref. No.	Part No.	Description	No. Used
75	3256-27	Flatwasher	3
76	256-173	Bushing	1
77	7-0163	Shoulder Bolt	1
78	7-4196	Rod Clutch	1
79	3256-3	Flatwasher	2
80	3290-307	Hair Pin Cotter	1
81	3253-4	Lockwasher	2
82	32104-28	Self Tapping Screw	2
83	7-4291	Spring	1
84	7-7520	Frame	1
85	32121-51	Roll Pin	1
86	7-4183	Pedal Crank Neutralizer	1
87	7-5540	Switch Basic Spno	1
88	7-4235	Bracket Switch	1
89	7-5680	Pedal	1
90	7-3668	Pedal Stop	1
91	7-3900	Pad Brake Pedal	1
92	7-4590	Pedal Stop	1
93	237-62	Grommet	1
94	3272-6	Cotter Pin	2
95	7-4185	Link Neutralizer	1
96	7-4195	Lift Link	1
97	322-4	Capscrew	1

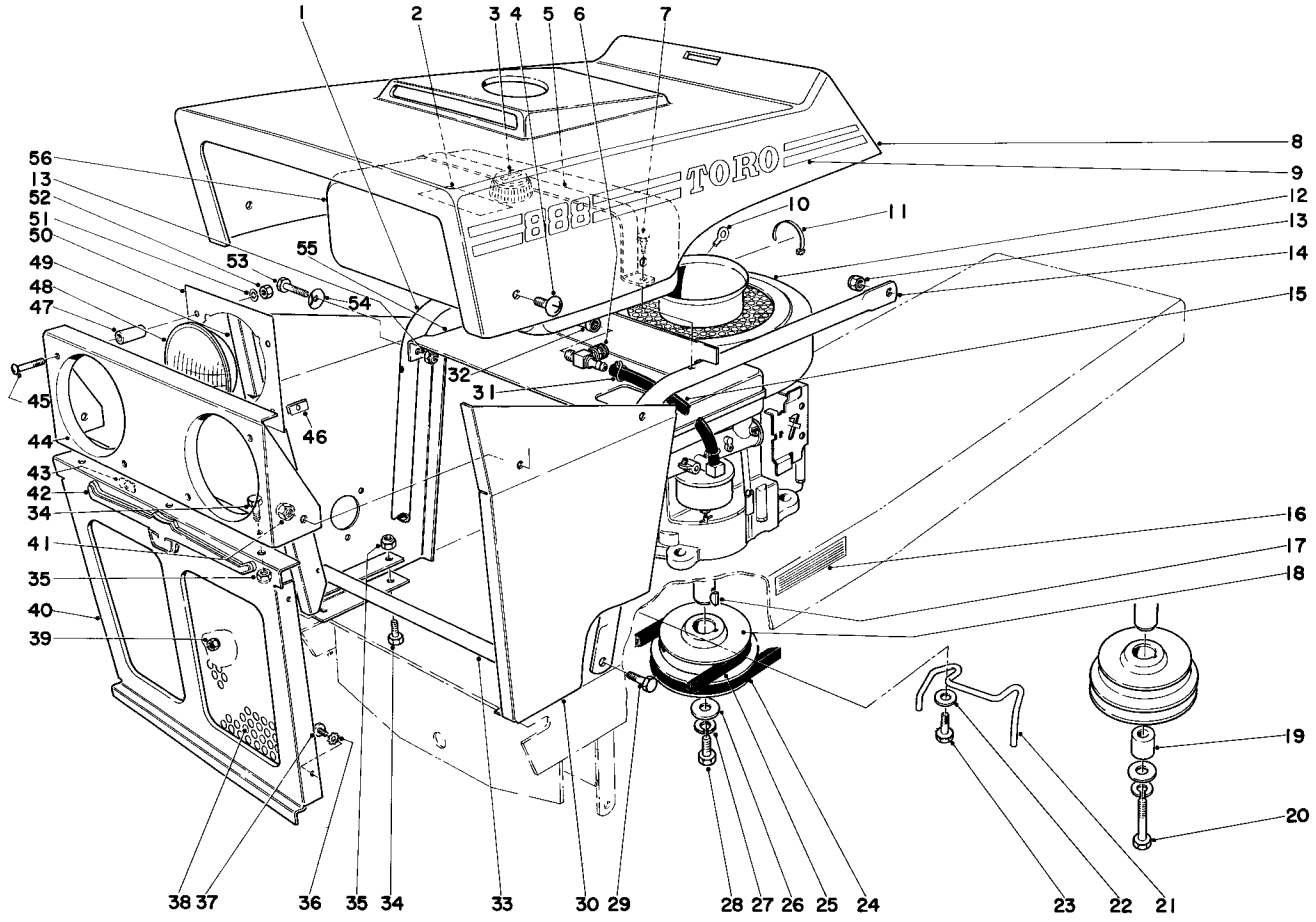


HOOD AND ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-7570	Support Gas Tank R. H.	1
2	7-4600	Decal Gas Tank	1
3	5-3460	Gas Cap Gauge	1
4	3258-158	Phillips Head Screw	4
5	7-7490	Hold Down Gas Tank	1
6	7-7260	Fuel Shut-off Valve	1
7	32104-76	Self Tapping Screw	2
8	7-7890	Hood	1
9	7-8380	Decal Hood Left	1
*	7-8370	Decal Hood Right	1
10	218-445	Terminal Closed End	1
11	7-3123	Cable Tie	1
12	221-376	Engine Model (190707-0626)	1
*	221-347	Engine Model (190707-0142)	1
*	221-349	Engine Model (191707-0124)	1
13	32152-4	Locknut	3
14	7-7560	Support Gas Tank L. H.	1
15	7-3983	Gas Hose	1
16	7-6610	Decal-Traction Drive	1
17	3257-3	Woodruff Key	1
18	7-7550	Engine Pulley	1

Ref. No.	Part No.	Description	No. Used
19	7-8980	Spacer	1
20	3211-6	Capscrew	1
21	7-8710	Belt Guide	1
22	3256-22	Washer	2
23	32140-15	Sems Screw	2
24	7-4233	Belt	1
25	7-4231	Belt	1
26	3256-4	Flat Washer	1
27	3253-21	Lockwasher	1
28	3211-5	Capscrew	1
29	322-3	Capscrew	2
30	7-5310	Skin Left Front	1
31	2412-33	Clamp-Gas Line	2
32	7-8180	Elbow 90°	1
33	7-4106	Hinge	1
34	321-2	Capscrew	7
35	32152-4	Locknut	7
36	3255-17	Lockwasher	4
37	3290-111	Pan Head Screw	4
38	7-5980	Grille Panel	1
39	3296-12	Nut	5
40	7-6040	Grille	1
41	32152-1	Locknut	4
42	7-3441	Bullshead	1

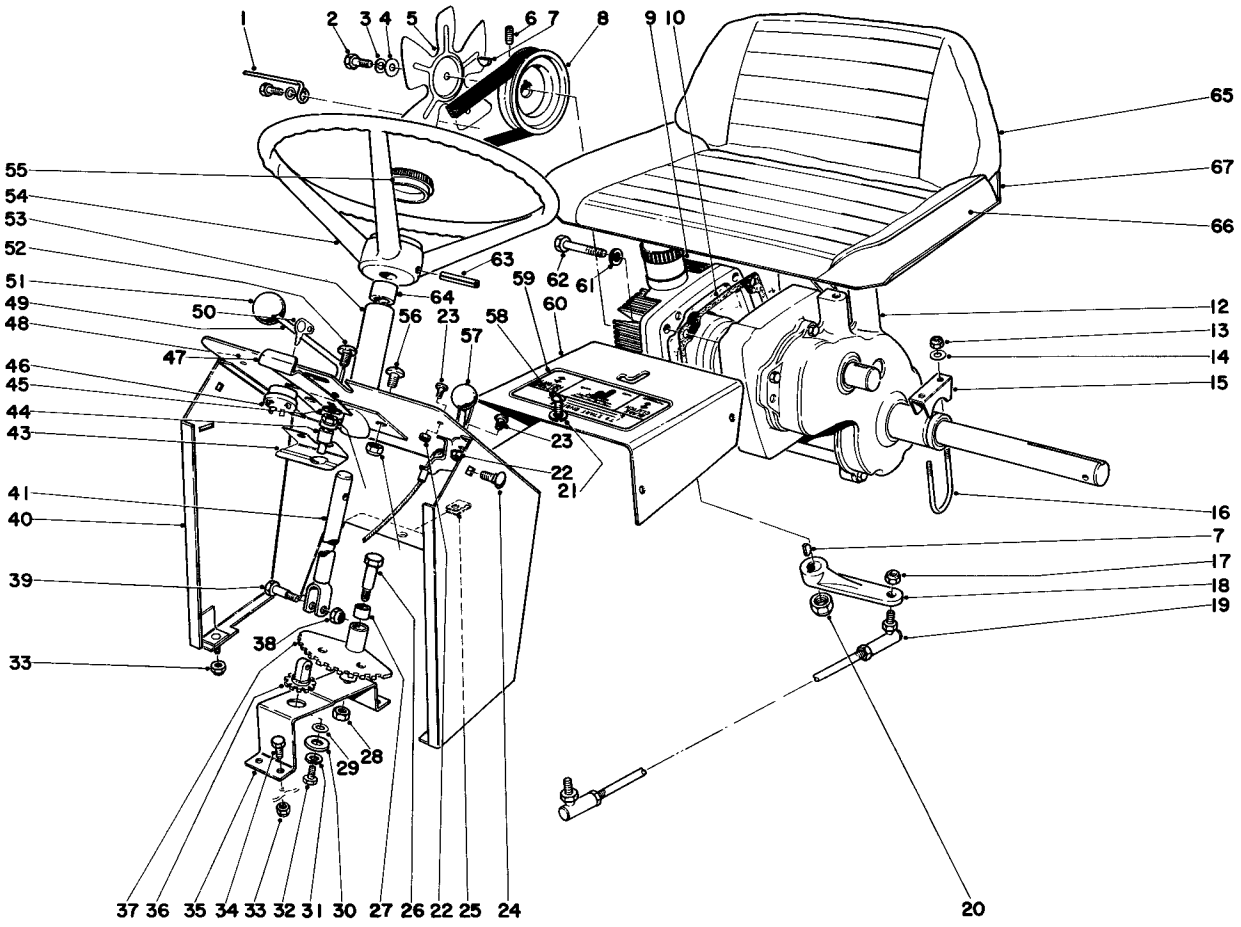
*Not Illustrated



HOOD AND ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
43	3290-275	Tinnerman Nut	3
44	7-4213	Headlamp Panel	1
45	32122-45	Phillips Screw	4
46	3290-191	Tinnerman Nut	4
47	7-4254	Spacer	4
48	7-1646	Headlight	2
49	7-7880	Skin Right Front	1

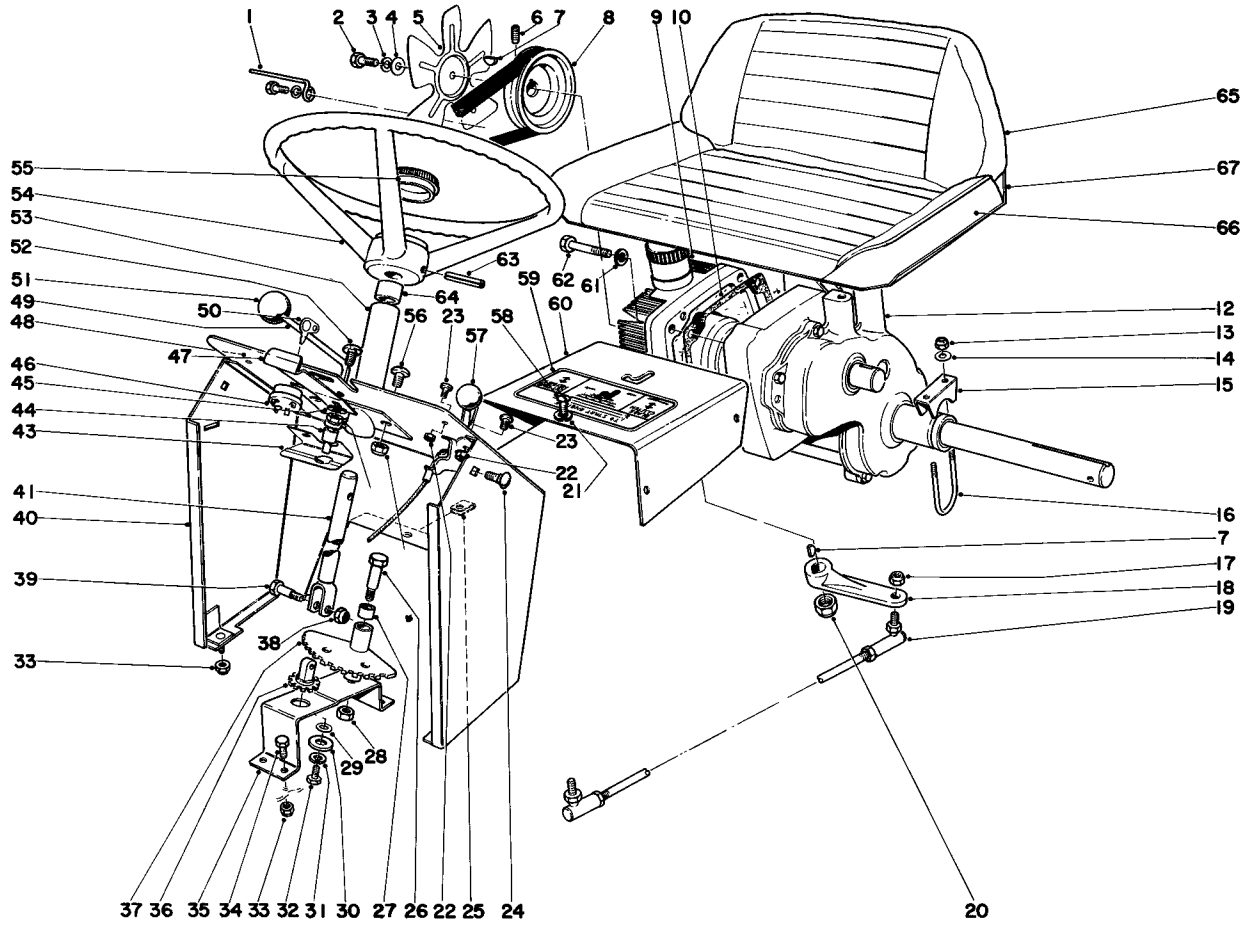
Ref. No.	Part No.	Description	No. Used
50	7-4320	Headlight Holder	2
51	3253-12	Lockwasher	4
52	3217-26	Nut	4
53	321-8	Capscrew	2
54	3-7501	Curved Washer	2
55	7-7920	Tray Gas Tank	1
56	7-4920	Gas Tank	1



DASH AND TRANSAXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-4304	Belt Guide	1
2	321-3	Capscrew	1
3	3253-1	Lockwasher	1
4	3256-2	Flatwasher	1
5	7-4226	Fan	1
6	3245-2	Set Screw	2
7	3257-1	Woodruff Key	2
8	7-4142	Pulley	1
9	7-7940	Hydrostatic Transmission	1
10	7-4313	Gasket Transaxle	1
12	7-4224	Transaxle	1
13	32152-5	Locknut	4
14	3256-3	Flatwasher	4
15	7-0203	Axle Bracket	2
16	7-0202	U-Bolt	2
17	32152-5	Locknut	2
18	7-4176	Lever Hydrostatic	1
19	7-4184	Control Rod Transmission	1
20	32152-2	Locknut	1
21	3253-3	Lockwasher	5
22	32149	Kep Nut	6
23	3290-305	Phillips Head Screw	6
24	3229-1	Carriage Bolt	2
25	3290-192	Tinnerman Clip	5

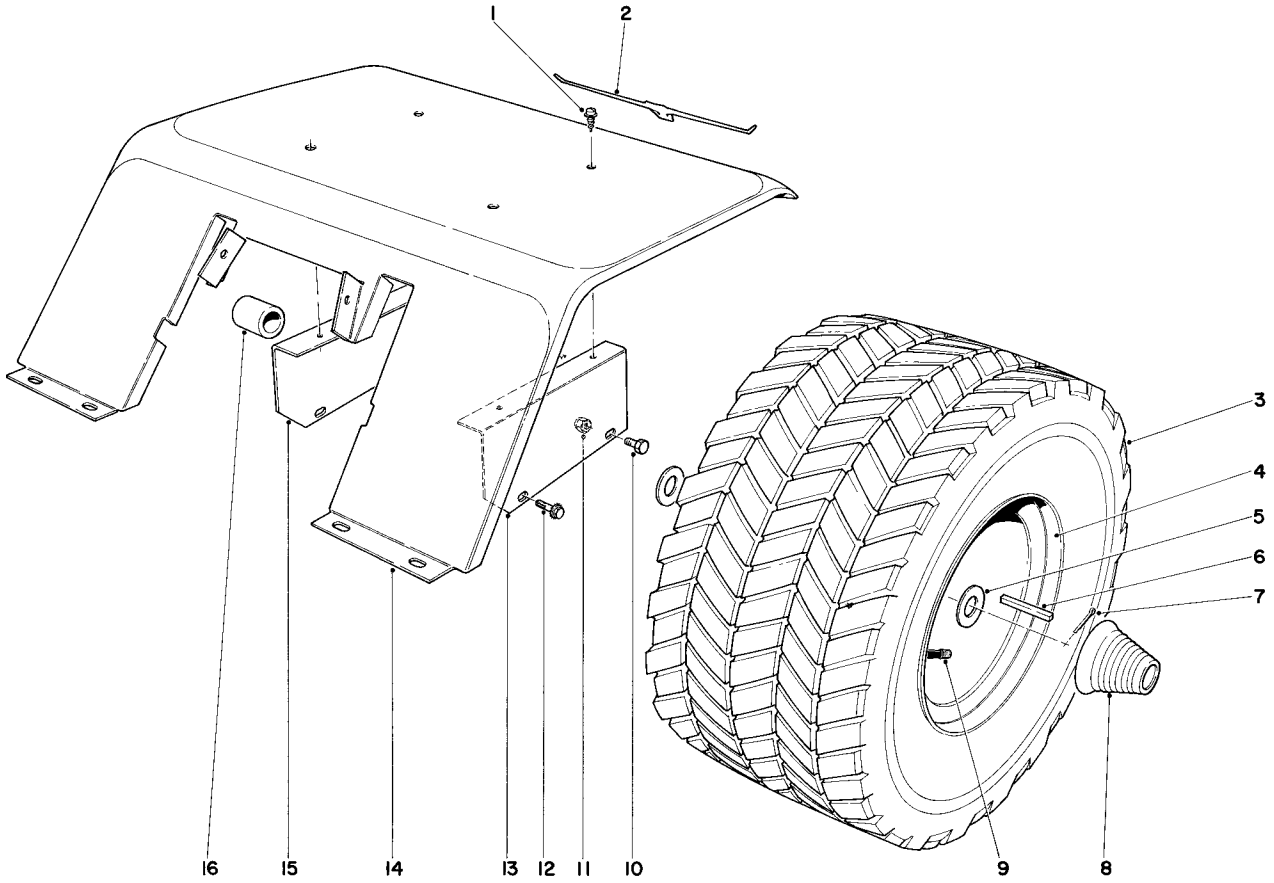
Ref. No.	Part No.	Description	No. Used
26	7-5500	Shoulder Bolt Incl. Ref. #29	1
27	256-100	Bushing	2
28	32146-6	Nut	1
29	7-5990	Spacer	1
30	7-6640	Washer	1
31	3253-3	Lockwasher	1
32	321-4	Capscrew 321-30	1
33	32152-1	Locknut	8
34	322-3	Capscrew	4
35	7-4148	Mounting Bracket Steering Sector	1
36	7-6000	Pinion Steering	1
37	7-5920	Steering Gear Incl. Ref. #27	1
38	32152-5	Locknut	1
39	7-6010	Shoulder Screw	1
40	7-5590	Dash	1
41	7-5960	Steering Shaft	1
42	32152-4	Locknut	1
43	7-4180	Spring Detent	1
44	256-172	Handle Hydro Control	1
45	3256-22	Flatwasher	1
46	7-5240	Ignition Switch	1
47	7-5080	Latch Hood	1
48	7-8390	Decal – Dash	1



DASH AND TRANSAXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
49	7-4178	Handle Hydro Control	1
50	218-412	Key	1
51	233-24	Knob	1
52	3229-23	Carriage Bolt	1
53	7-4038	Steering Tube Incl. Ref. #64	1
54	238-5	Steering Wheel	1
55	7-4323	Steering Wheel Cap	1
56	3258-158	Screw Round Head	2
57	7-5370	Throttle Control	1
58	3258-2	Screw Round Head	5

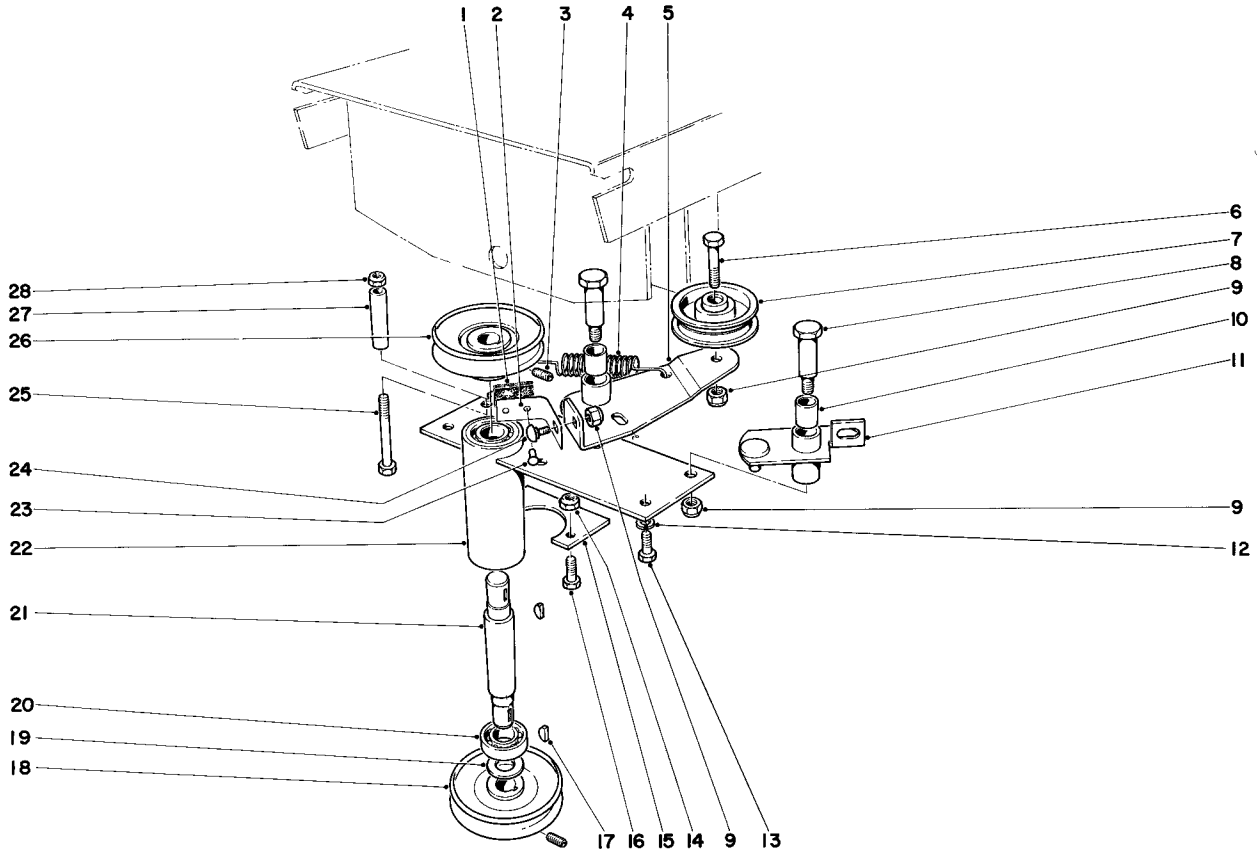
Ref. No.	Part No.	Description	No. Used
59	7-8240	Decal	1
60	7-7580	Tunnel	1
61	3253-21	Lockwasher	4
62	323-14	Capscrew	4
63	32121-78	Roll Pin	1
64	256-167	Bushing	1
65	351-49	Seat Back	1
66	351-50	Seat Cushion	1
67	351-51	Seat Frame	1



REAR TIRE AND FENDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-77	Self Tapping Screw	4
2	7-8050	Decal — Rear Fender	1
3	231-57	Tire	2
4	217-94	Rim	2
5	7-4198	Washer	5
6	5-1718	Key	2
7	3272-23	Cotter Pin	2
8	7-4116	Hub Cap	2

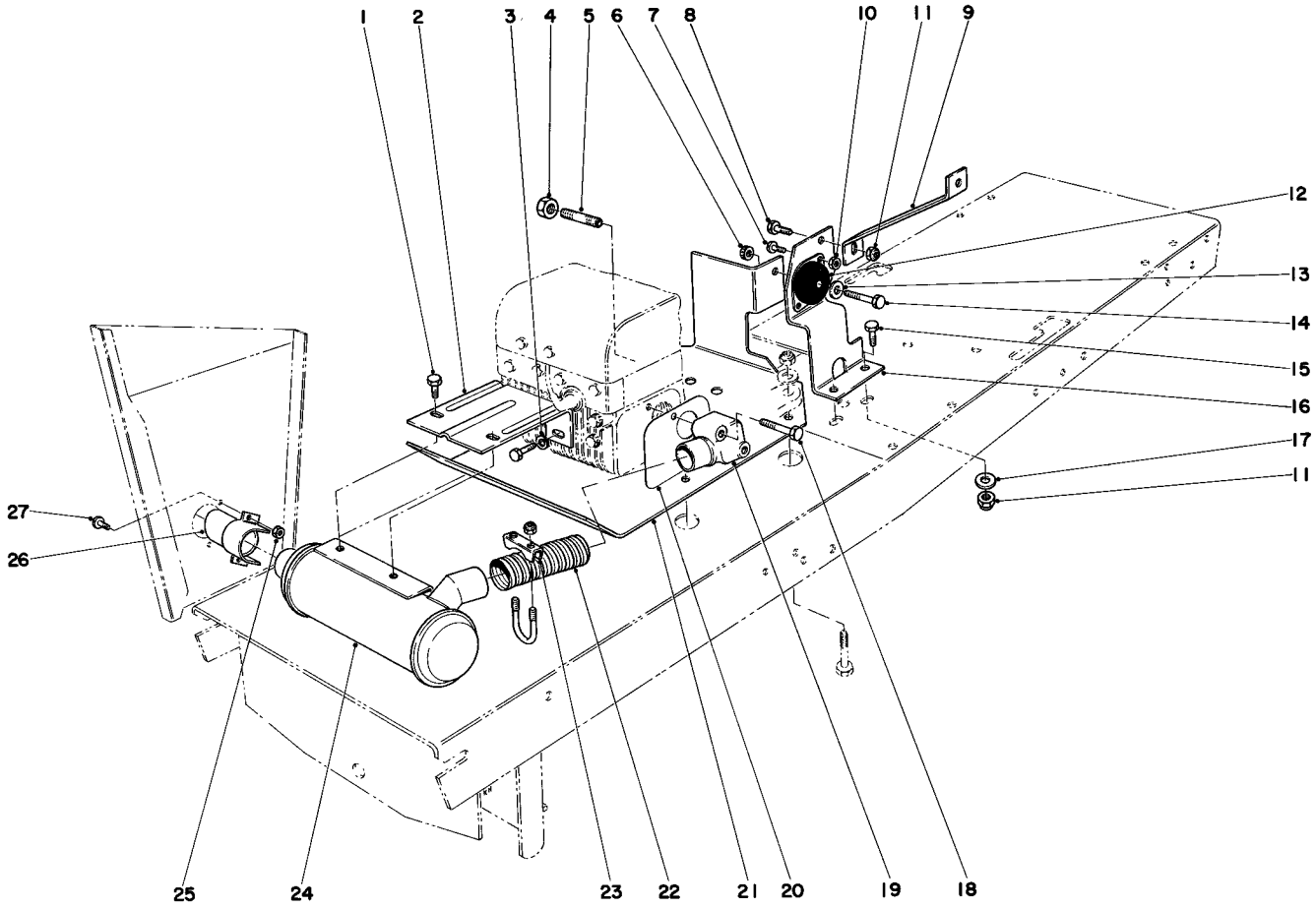
Ref. No.	Part No.	Description	No. Used
9	232-21	Valve Stem	2
10	322-3	Capscrew	2
11	32152-1	Locknut	2
12	32140-15	Self Tapping Screw	2
13	7-4120	Fender Support L. H.	1
14	7-5120	Fender	1
15	7-4118	Fender Support R. H.	1
16	7-4197	Spacer	1



POWER TAKE-OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-0643	Brake Lining	1
2	7-4093	Spring Brake	1
3	3246-1	Set Screw	4
4	7-3970	Spring	1
5	7-4190	Idler Plate Incl. Ref. #10	1
6	323-3	Capscrew	1
7	3-4244	Idler Pulley	1
8	7-0731	Shoulder Bolt	2
9	32152-2	Locknut	4
10	256-172	Bushing	4
11	7-4094	Pivot Bracket Incl. Ref. #10	1
12	3253-4	Lockwasher	3
13	322-2	Capscrew	3
14	32152-1	Locknut	2

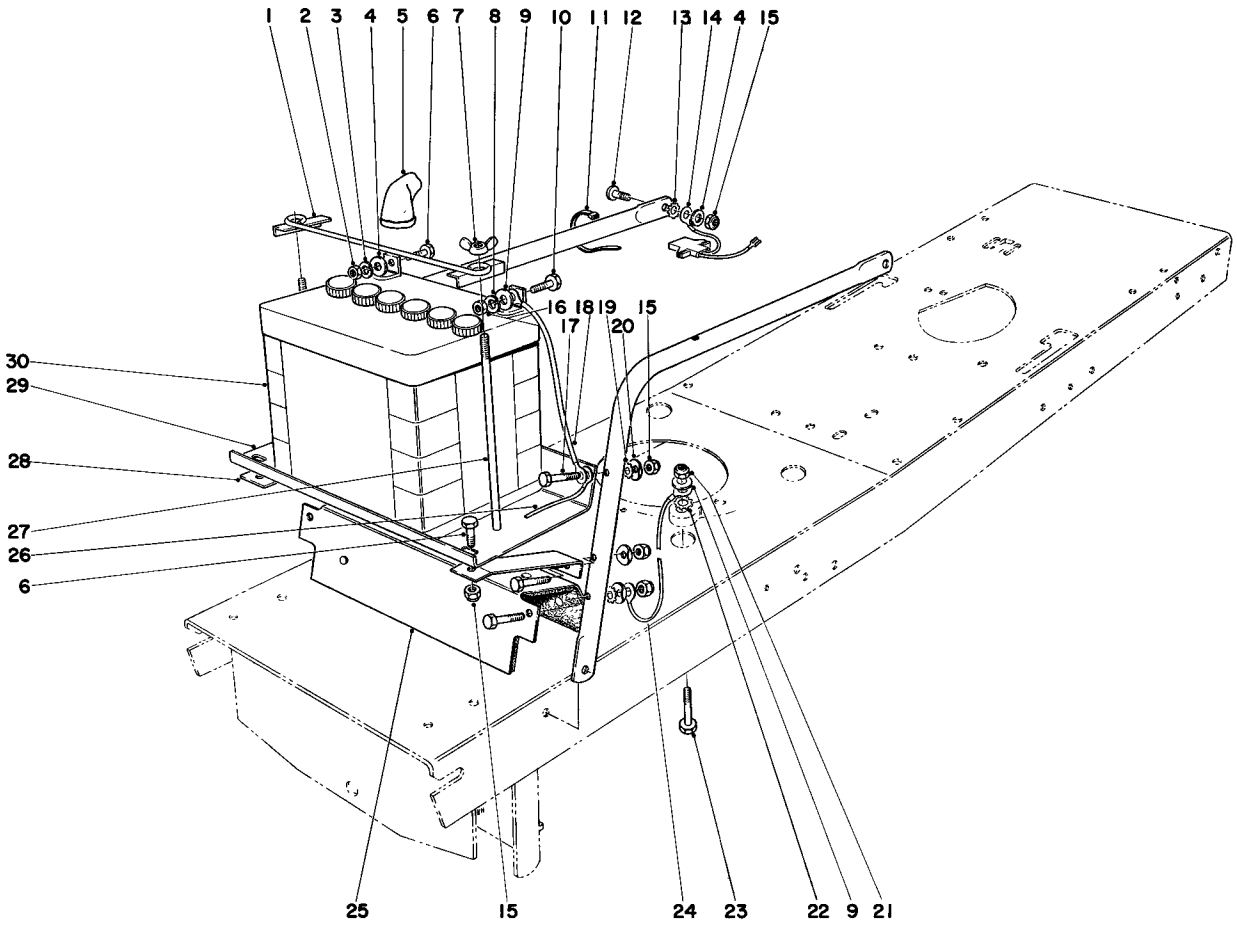
Ref. No.	Part No.	Description	No. Used
15	7-8230	Retainer P.T.O. Tube	1
16	322-2	Capscrew	2
17	3257-5	Woodruff Key	2
18	7-4096	Pulley	1
19	7-0777	Bearing Washer	1
20	251-5	Bearing	2
21	7-4095	Shaft P.T.O.	1
22	7-8210	P.T.O. Tube	1
23	3295-21	Pop Rivet	2
24	3231-21	Carriage Bolt	1
25	322-12	Capscrew	1
26	7-3796	Pulley	1
27	7-4097	Spacer	1
28	32152-1	Locknut	1



EXHAUST ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-1	Capscrew	2
2	7-7870	Muffler Hanger	1
3	3253-4	Lockwasher	2
4	7-8720	Pipe Cap	1
5	289-36	Pipe Nipple	1
6	32153-2	Locknut	3
7	32122-30	Truss Head Screw	6
8	322-3	Capscrew	1
9	7-7470	Brace	1
10	32153-1	Locknut	6
11	32152-1	Locknut	3
12	7-6990	Rubber Mount	3
13	3256-24	Flat Washer	3
14	323-9	Capscrew	3

Ref. No.	Part No.	Description	No. Used
15	322-3	Capscrew	2
16	7-7480	Rear Mount	1
17	3256-3	Flat Washer	2
18	7-8850	Capscrew	2
19	7-8760	Elbow Exhaust	1
20	7-8970	Shield Heat	1
21	7-7590	Engine Mount	1
22	7-8700	Exhaust Tubing	1
23	5-3179	Clamp Assembly	2
24	7-7180	Muffler	1
25	32153-1	Locknut	2
26	7-7070	Exhaust Tip	1
27	3251-2	Screw Round Head	2

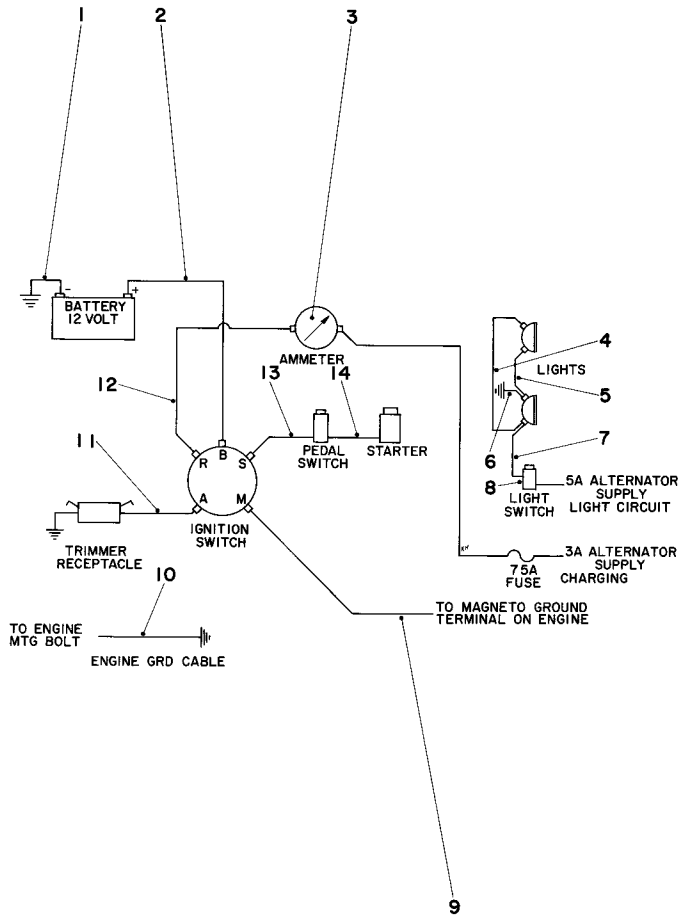


ELECTRICAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-0534	Clamp, Battery	1
2	3217-5	Nut	1
3	3253-3	Lockwasher	1
4	3256-22	Flatwasher	2
5	218-331	Terminal Boot	2
6	321-4	Capscrew	3
7	32103-19	Wing Nut	2
8	3253-4	Lockwasher	1
9	3256-23	Flatwasher	5
10	322-3	Capscrew	1
11	7-3123	Cable Tie	1
12	3229-1	Carriage Bolt	1
13	3255-7	Lockwasher	1
14		Wire Receptacle Assembly	1
15	32152-4	Locknut	9
16	3217-6	Nut	1
17	321-8	Capscrew	6

Ref. No.	Part No.	Description	No. Used
*18		Wire Assembly Battery to Ground	1
*19	3255-7	Lockwasher	6
20	3-7501	Curved Washer	6
21	32152-1	Locknut	4
22	3255-8	Lockwasher	1
23	322-7	Capscrew	4
24		Wire Assembly Engine to Ground	1
25	7-8040	Heat Shield	1
*26		Wire Assembly Headlight to Ground	1
27	7-3328	Battery Bolt	2
28	7-7980	Brace, Battery Shelf	2
29	7-7690	Battery Shelf	1
30	8-9490	Battery	1

*Use on opposite side only.

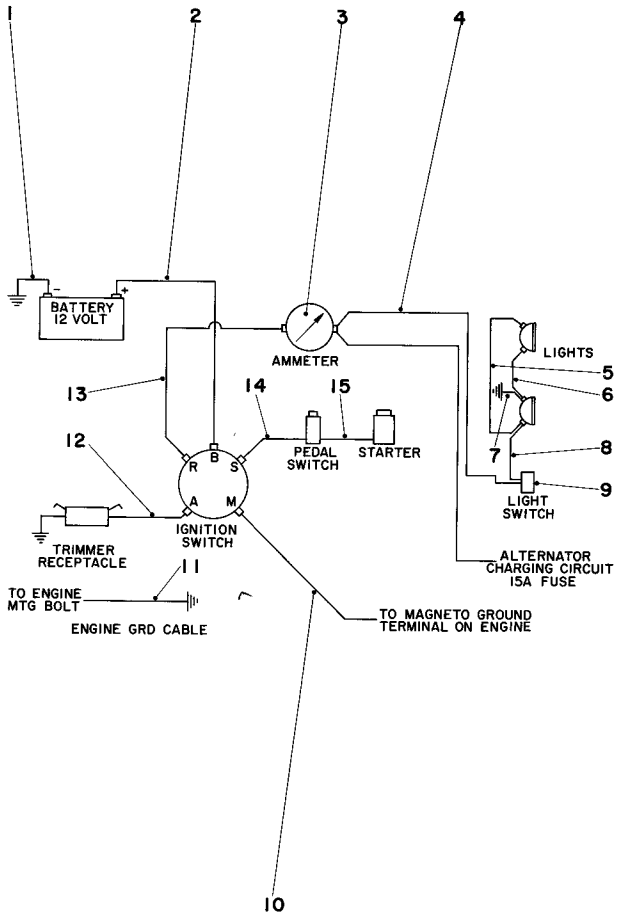


ELECTRICAL SCHEMATIC

Wiring Schematic for Engine 221-376 (190707-0626)

Ref. No.	Part No.	Description	No. Used
1	7-4080	Wire Battery to Ground	1
2	7-8190	Wire Assembly	1
3	7-6130	Ammeter	1
4	7-3543	Wire Head Light to Head Light	1
5	7-3538	Wire Head Light to Head Light	1
6	7-3541	Wire Head Light to Ground	1
7	7-6190	Wire Switch to Headlight	1
8	7-1780	Light Switch	1

Ref. No.	Part No.	Description	No. Used
9	7-6220	Wire Switch to Magneto	1
10	7-7630	Wire Engine to Ground	1
11	7-5230	Wire Trimmer Receptacle	1
12	7-6180	Wire Ammeter to Starter Switch	1
13	7-6230	Wire Pedal Switch to Starter Switch	1
14	7-6160	Wire Pedal Switch to Starter	1

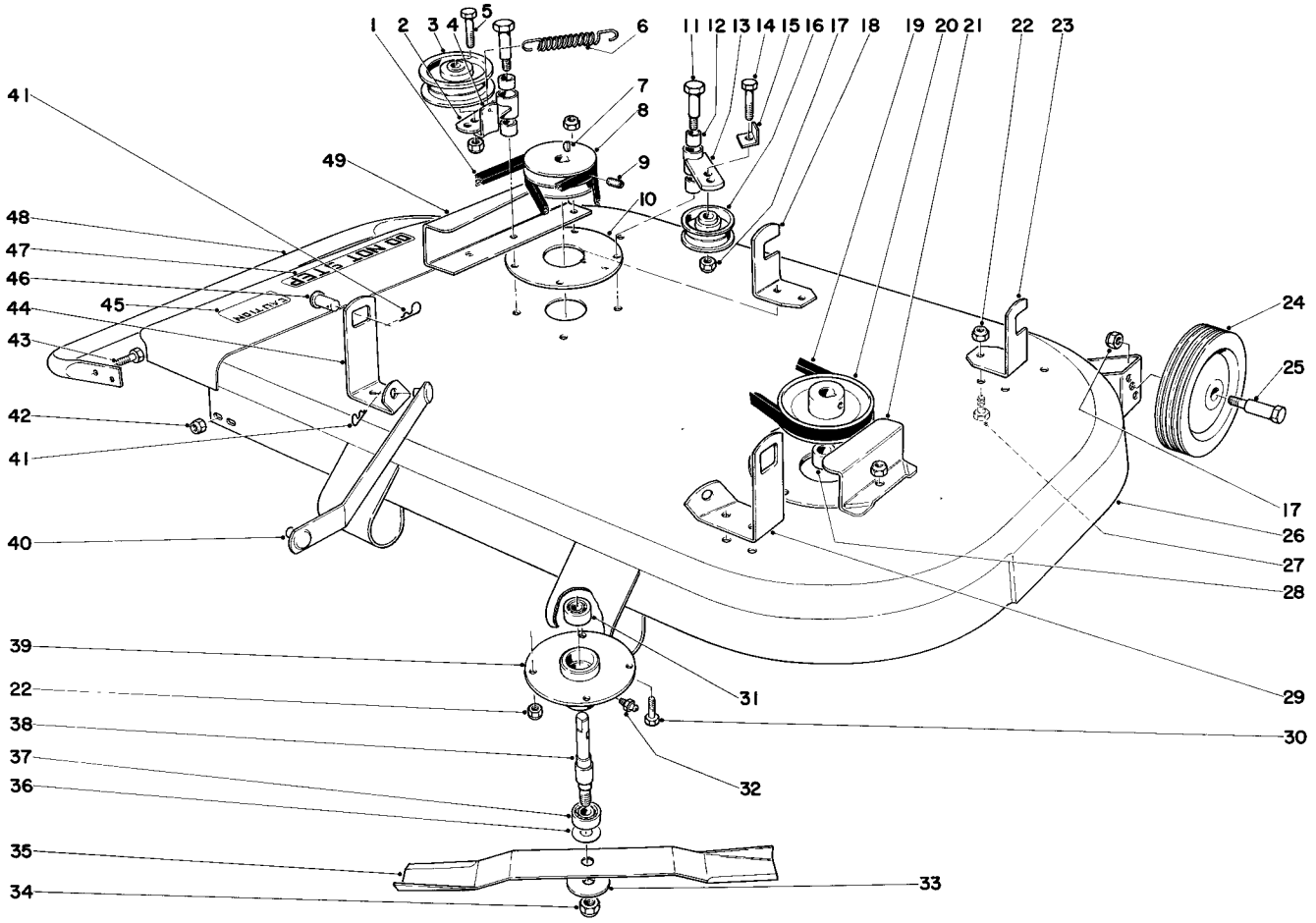


ELECTRICAL SCHEMATIC

Wiring Schematic for Engine 221-347 (190707-0142) and 221-349 (191707-0124)

Ref. No.	Part No.	Description	No. Used
1	7-4080	Wire Battery to Ground	1
2	7-8190	Wire Assembly	1
3	7-6130	Ammeter	1
4	7-6170	Wire	1
5	7-3543	Wire Head Light to Head Light	1
6	7-3538	Wire Head Light to Head Light	1
7	7-3541	Wire Head Light to Ground	1
8	7-6190	Wire Switch to Headlight	1

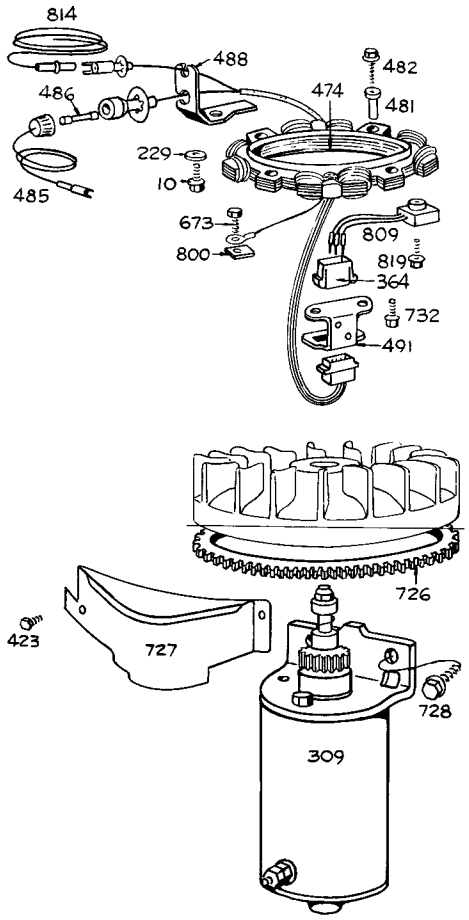
Ref. No.	Part No.	Description	No. Used
9	7-1780	Light Switch	1
10	7-6220	Wire Switch to Magneto	1
11	7-7630	Wire Engine to Ground	1
12	7-5230	Wire Trimmer Receptacle	1
13	7-6180	Wire Ammeter to Ignition Switch	1
14	7-6230	Wire Pedal Switch to Ignition Switch Starter	1
15	7-6160	Wire Pedal Switch to Starter	1



36" MOWER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-4230	Belt	1
2	7-3780	Idler Plate Incl. Ref. #12	1
3	7-8680	Idler Pulley	1
4	7-8670	Belt Retainer	1
5	323-9	Capscrew	1
6	7-3977	Spring Tension	1
7	3257-5	Woodruff Key	2
8	7-3788	Pulley	1
9	3246-2	Set Screw	2
10	7-0252	Washer	2
11	7-3878	Shoulder Bolt	2
12	256-172	Bushing	4
13	7-3781	Idler Plate Incl. Ref. #12	1
14	323-8	Capscrew	1
15	7-3976	Spring Bracket	1
16	3-4244	Idler Pulley	1
17	32152-2	Locknut	4
18	7-4210	Bracket	1
19	7-4228	Belt	1
20	7-3796	Pulley	1
21	7-4212	Belt Guard	1
22	32152-1	Locknut	16
23	7-4208	Mower Bracket	1
24	241-87	Wheel	2
25	7-0262	Axle Bolt	2

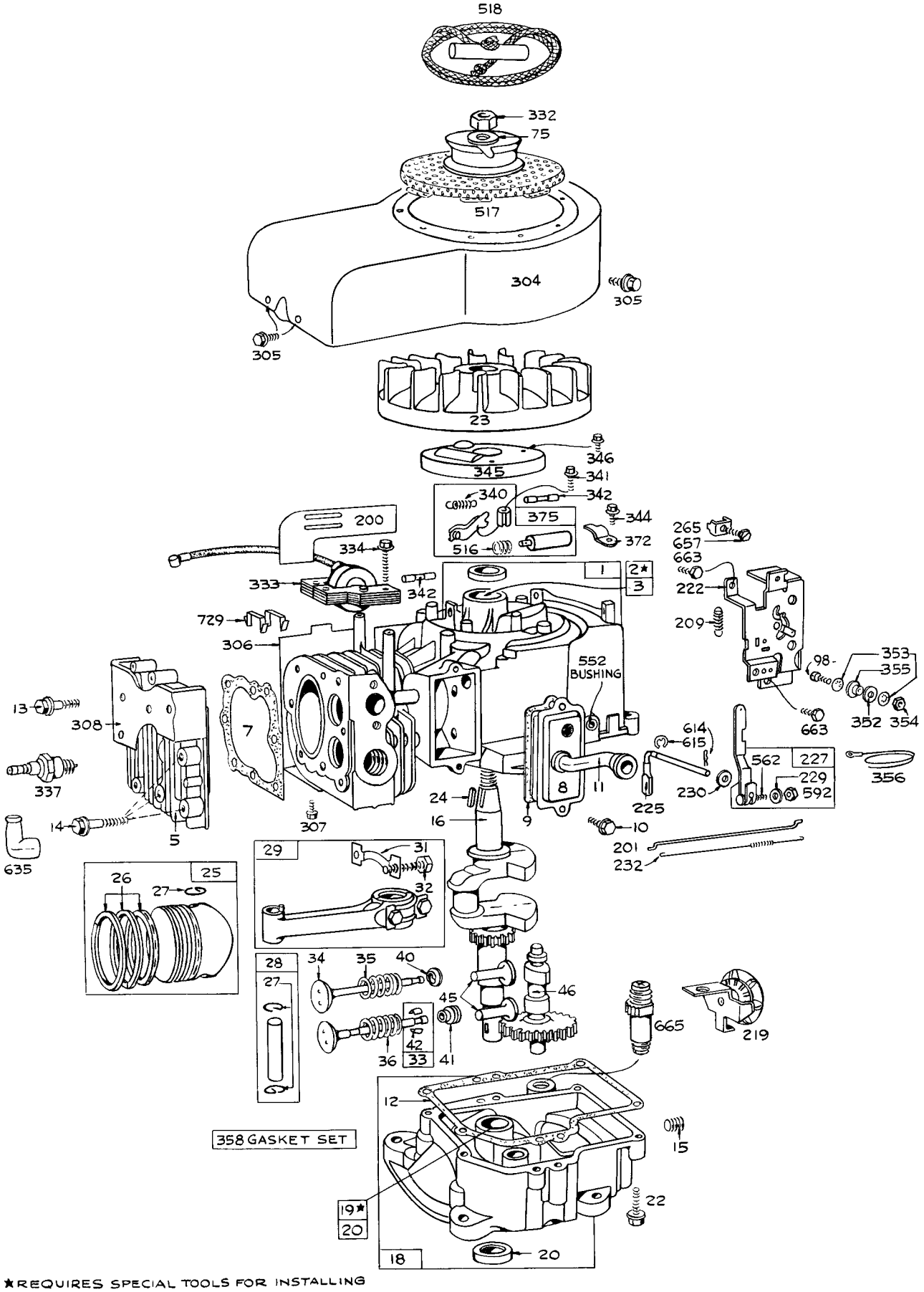
Ref. No.	Part No.	Description	No. Used
26	7-7610	Mower Housing	1
27	322-2	Capscrew	8
28	7-3747	Spacer — Blade Spindle	1
29	7-4206	Mower Bracket	1
30	322-4	Capscrew	6
31	251-5	Bearing	2
32	302-5	Grease Fitting	2
33	7-0253	Washer	2
34	32152-6	Locknut	2
35	7-2464	Blade	2
36	7-3590	Flat Washer	2
37	251-123	Bearing	2
38	7-3744	Blade Spindle	2
39	7-0287	Mower Spindle Housing	2
40	7-4111	Tow Bar	2
41	3290-250	Hair Pin Cotter	6
42	32152-4	Locknut	4
43	3229-10	Carriage Bolt	4
44	7-4207	Mower Bracket	1
45	7-6630	Decal — Caution	1
46	7-4110	Cleve's Pin	2
47	7-8200	Decal	1
48	7-4211	Mower Guard	1
49	7-4317	Guard Mower	1



ALTERNATOR AND STARTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
10	93536	Screw – Sem	1
229	220680	Washer – Flat	1
309	390307	Motor – Starting	1
(*)		American Bosch-Arma No. SMH 12-A11 (on Commutator End Cap)	
(**)		Made in Japan for B & S No. MMO. 5ML (on Main Housing)	
		Replacement Parts for Starting Motor No. 390307 (see list below)	
		Drive Assembly (complete)	
		B & S No. 390443 (*)	
		B & S No. 299963 (**)	
		Drive End Cap Assembly w/Bearing and Bracket	
		B & S No. 390944 (*)	
		B & S No. 390454 (**)	
		Armature Assembly including Washers.	
		B & S No. 390446 (*)	
		B & S No. 390456 (**)	
		Housing Assembly including Field Coils.	
		B & S No. 390447 (*)	
		B & S No. 390452 (**)	
		Commutator End Cap Assy. including Bushing, Brushes and Springs.	
		B & S No. 390448 (*)	
		B & S No. 390455 (**)	
		Thru Bolt Assembly includes Nuts and Lockwashers.	
		B & S No. 390450 (*)	
		B & S No. 299962 (**)	
		Brush Kit	
		B & S No. 390449 (*)	
364	280081	Socket – Lead Wire	1
423	93410	Screw – Sem	1
474	390671	Stator – Alternator	1
481	230976	Bushing – Stator	1
482	93621	Screw – Stator Mtg.	1
485	390313	Knob Assy. – Fuse	1
486	67125	Fuse – 7-1/2 Amp.	1
488	222211	Bracket – Fuse	1
491	222115	Bracket – Rectifier	1
618	261116	Spring – Choke Return	1
673	93438	Screw	1
726	299543	Gear, Ring (Includes mounting parts)	1
727	390233	Cover and Shield – Starter	1
728	93535	Screw – Sem	1
732	93490	Screw – Sem	1
800	222212	Retainer	1
809	390692	Rectifier – Alternator	1
814	390610	Wire Assembly	1
819	93680	Screw – Sem	1

MODEL 190707-0626 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON



★REQUIRES SPECIAL TOOLS FOR INSTALLING

MODEL 190707-0626 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

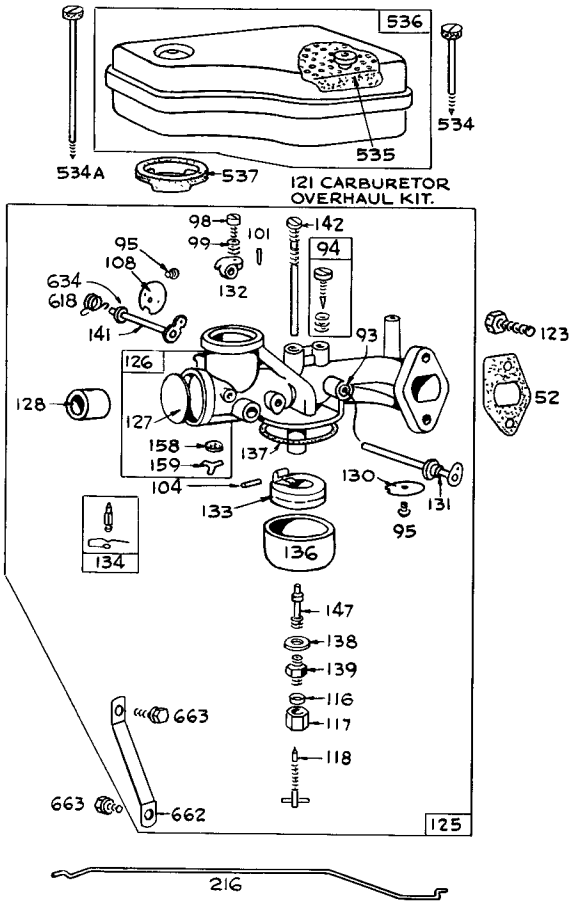
Ref. No.	Part No.	Description	No. Used
1	390380	Cylinder Assembly	1
2	295962	Bushing – Cylinder	1
	Note:	Requires special tools for installation.	
3	294606	Seal – Oil	1
5	211778	Head – Cylinder	1
7	♦270430	Gasket – Cylinder Head	1
8	299848	Breather Assembly	1
9	♦27803	Gasket – Valve Cover	1
10	93536	Screw – Sem	1
11	280005	Tube – Breather	1
12	♦27750	Gasket – Crankcase Cover – 1/64" thick	1
	♦27876	Gasket – Crankcase Cover – .005" thick	1
	♦27877	Gasket – Crankcase Cover – .009" thick	1
13	93210	Screw – Cylinder Head (2-9/32" long)	1
14	93211	Screw – Cylinder Head (2-21/32" long)	1
15	93418	Plug – Oil Drain (Hex Socket)	1
16	261083	Crankshaft	1
18	298616	Sump – Oil	1
19	295963	Bushing – Oil Sump	1
	Note:	Requires special tools for installation.	
20	298423	Seal – Oil	1
22	93585	Screw – Sump Mtg. Sem	1
23	390180	Flywheel – Magneto	1
24	61760	Key – Flywheel	1
25	390347	Piston Assy. – Standard	1
	390348	Piston Assembly – .010" O.S.	1
	390349	Piston Assembly – .020" O.S.	1
	390350	Piston Assembly – .030" O.S.	1
		PISTON RING SETS:	
26	299569	Ring Set – Piston – Std.	1
		Consists of:	
		211637 Ring, Piston, Comp., Top Std.	1
		211636 Ring, Piston, Comp., Center, Std.	1
		211635 Ring, Piston, Oil, Std.	1
	299570	Ring Set – Piston – .010" O.S.	1
		Consists of:	
		211649 Ring, Piston, Comp., Top, .010" O.S.	1
		211650 Ring, Piston, Comp., Center, .010" O.S.	1
		211651 Ring, Piston, Oil, .010" O.S.	1
	299571	Ring Set–Piston–.020" O.S.	1
		Consists of:	
		211653 Ring, Piston, Comp., Top, .020" O.S.	1
		211654 Ring, Piston, Comp., Center, .020" O.S.	1
		211655 Ring, Piston, Oil, .020" O.S.	1
	299572	Ring Set – Piston – .030" O.S.	1
		Consists of:	
		211657 Ring, Piston, Comp., Top, .030" O.S.	1
		211658 Ring, Piston, Comp., Center, .030" O.S.	1
		211659 Ring, Piston, Oil, .030" O.S.	1
27	68546	Lock – Piston Pin	1
28	295840	Pin Assy. – Piston – Std.	1
	295841	Pin Assembly – Piston – .005" O.S.	1
29	390402	Rod Assy. – Connecting	1
31	222114	Lock – Conn. Rod Screw	1
32	92659	Screw – Conn. Rod	1
33	390419	Valve – Exhaust	1
34	261055	Valve – Intake	1
35	65906	Spring – Intake Valve	1
36	26828	Spring – Exhaust Valve	1
40	221596	Retainer – Intake Valve	1
41	292260	Rotocoil – Exhaust Valve	1
42	93630	Retainer – Exhaust Valve Rotocoil (2)	1
45	260933	Tappet – Valve	1
46	210728	Gear – Cam	1
75	220865	Washer – Spring	1
200	221760	Guide – Air	1
201	260971	Link – Governor	1
209	261129	Spring – Governor	1
219	298614	Oil Slinger, Gov. Gear and Bracket Assembly	1
222	390662	Plate – Gov. Control	1
225	230759	Shaft – Gov. Lever	1
227	298303	Lever Assy. – Governor	1
229	220680	Washer – Flat	1
230	221559	Washer – Gov. Lever	1
232	260584	Spring – Governor Link	1
265	221535	Clamp – Casing	1
304	299392	Housing – Blower	1
305	93158	Screw – Blower Housing Mounting Sem	1
306	221898	Shield – Cylinder	1
307	93163	Screw – Cylinder Shield Mounting Sem	1

♦ Included in Gasket Set – Part No. 299577

MODEL 190707-0626 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

Ref. No.	Part No.	Description	No. Used
308	221901	Cover – Cylinder Head	1
309	390307	Motor – Starting	1
(*)		American Bosch-Arma	
		No. SMH 12-A11	
		(on Commutator End Cap)	
(**)		Made in Japan for B & S	
		No. MMO. 5ML	
		(on Main Housing)	
		Replacement Parts for	
		Starting Motor No. 390307	
		(see list below)	
		Drive Assembly (complete)	
		B & S No. 390443 (*)	
		B & S No. 299963 (**)	
		Drive End Cap Assembly	
		w/Bearing and Bracket	
		B & S No. 390944 (*)	
		B & S No. 390454 (**)	
		Armature Assembly	
		including Washers.	
		B & S No. 390446 (*)	
		B & S No. 390456 (**)	
		Housing Assembly	
		including Field Coils.	
		B & S No. 390447 (*)	
		B & S No. 390452 (**)	
		Commutator End Cap Assy.	
		including Bushing, Brushes	
		and Springs.	
		B & S No. 390448 (*)	
		B & S No. 390455 (**)	
		Thru Bolt Assembly	
		includes Nuts and Lockwashers.	
		B & S No. 390450 (*)	
		B & S No. 299962 (**)	
		Brush Kit	
		B & S No. 390449 (*)	
332	92284	Nut	1
333	298968	Armature Assembly	1
334	93381	Screw – Armature Mounting Sem	1
337	298809	Plug –Spark	1
340	26018	Spring – Breaker Arm	1
341	93381	Screw – Breaker Arm Mounting Sem	1
342	65704	Plunger – Breaker Point	1
344	93042	Screw – Condenser Mounting Sem	1
345	222117	Cover – Breaker Point	1
346	93014	Screw – Sem	1
352	66068	Washer – Insulating	1
353	92791	Washer – Lock – Shakeproof	1
354	90576	Nut – Hex. – 8-32	1
355	66554	Collar – Insulating	1
356	299500	Wire – Ground	1
358	299577	Gasket Set	1
372	220477	Clamp – Condenser	1
375	294628	Breaker Points and Condenser Set	1
		Note: 299061 Ignition Kit	1
		Includes:	
		294628 Point Set	1
		65704 Plunger	1
		61760 Key – Flywheel	1
516	260374	Spring – Connector	1
517	295423	Pulley – Rope Starter (with screen)	1
518	69932	Rope – Starter	1
552	230927	Bushing – Governor Shaft	1
562	92613	Bolt – Governor Lever	1
592	90356	Nut – Hex., 10-24	1
614	93306	Cotter – Hair Pin	1
615	93307	Retainer – E-Ring	1
635	66538	Elbow – Spark Plug	1
657	93496	Screw – Sem	1
663	93572	Screw – Bracket Mtg.	1
665	296768	Oil Minder	1
729	221907	Clip – Wire	1

♦ Included in Gasket Set – Part No. 299577



MODEL NO. 390811 CARBURETOR ASSEMBLY (For Engine 190707-0626)

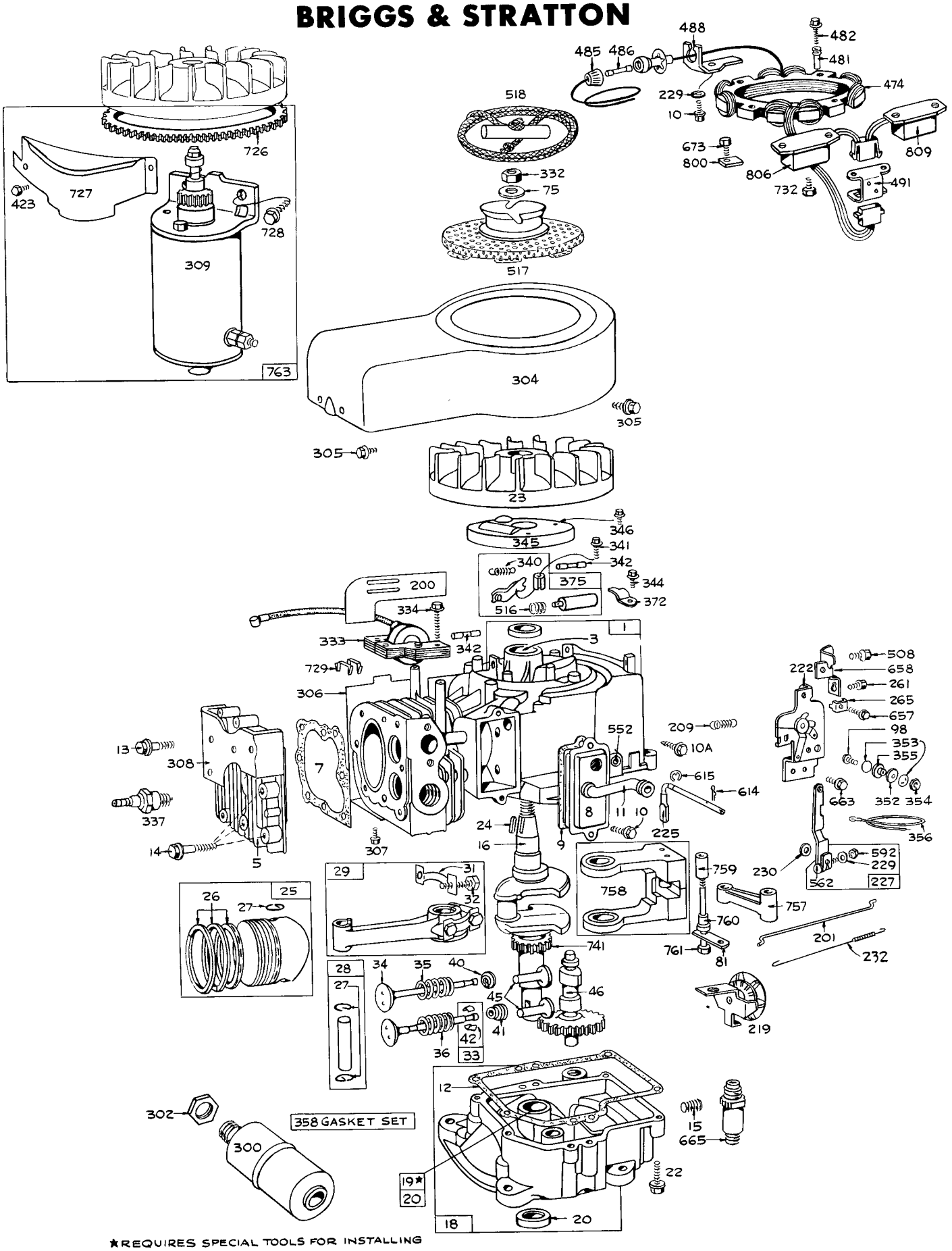
Ref. No.	Part No.	Description	No. Used
52	♦270538	Gasket—Carburetor Mounting	1
93	23108	Bushing – Throttle Shaft	1
94	‡292681	Valve Assembly – Carburetor Idle	1
95	93038	Screw – Throttle and Choke Valve Mtg. Sem	1
98	91920	Screw – Machine, Fill. Head 8-32 x 5/8"	1
99	26157	Spring – Throttle Adjustment	1
101	93043	Pin – Throttle Stop	1
104	‡230896	Pin – Float Hinge	1
108	222010	Valve – Choke	1
116	‡ 68677	Packing – Needle Valve	1
117	‡ 23118	Nut – Needle Valve Packing	1
118	‡299762	Valve – Needle	1
121	299852	Carburetor Overhaul Kit	1
123	93357	Screw – Carburetor Mounting	1
125	390811	Carburetor Assembly	1
126	390812	Body Assy.– Lower Carb.	1
127	221997	Plug – Welch	1
128	211682	Venturi – Carburetor	1
130	221986	Valve – Throttle	1
131	299650	Shaft and Lever – Throttle	1

♦ Included in Gasket Set – Part No. 299577

Ref. No.	Part No.	Description	No. Used
132	211712	Stop – Throttle	1
133	299707	Float – Carburetor	1
134	‡299096	Valve – Fuel Inlet	1
136	221995	Bowl – Float	1
137	‡270511	Gasket – Float Bowl	1
138	‡222014	Washer – Float Bowl	1
139	‡230935	Retainer – Jet Needle	1
141	390684	Shaft and Lever – Choke	1
142	‡299740	Nozzle – Carburetor	1
147	‡230932	Screw – Nozzle	1
158	27590	Filter – Carburetor Drain	1
159	220521	Retainer – Carburetor Drain Filter	1
216	261117	Link – Choke	1
534	93323	Screw – Air Cleaner	1
534A	93622	Screw – Air Cleaner	1
535	270528	Element – Air Cleaner	1
536	390379	Cleaner Assy. – Air	1
537	270539	Gasket – Air Cleaner	1
618	261116	Spring – Choke Return	1
634	270382	Washer – Choke Shaft	1
662	222027	Bracket – Carburetor	1
663	93572	Screw – Bracket Mtg.	1

‡ Included in Carburetor Overhaul Kit – Part No. 299852

MODEL 191707-0124 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON



★REQUIRES SPECIAL TOOLS FOR INSTALLING

MODEL 191707-0124 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

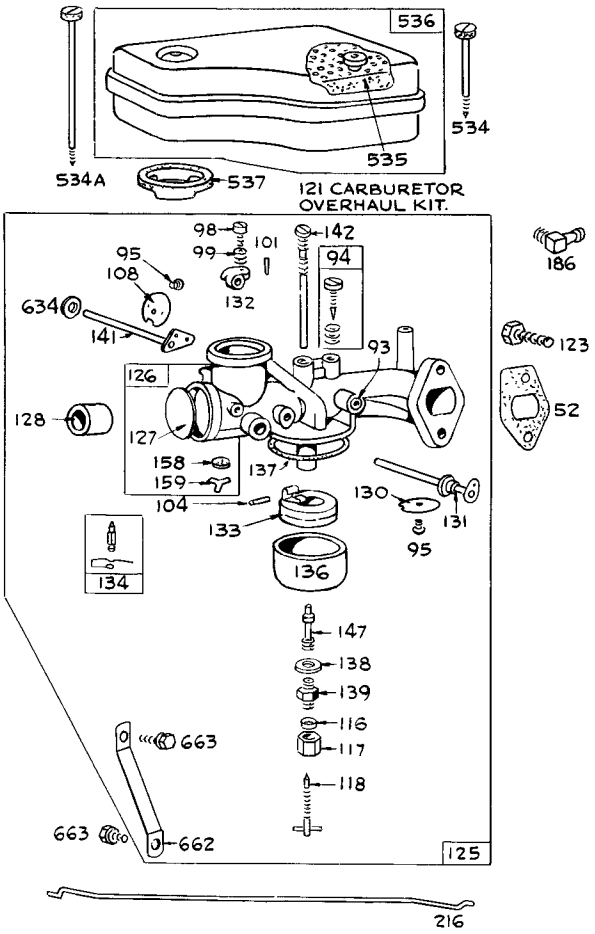
Ref. No.	Part No.	Description	No. Used
1	390418	Cylinder Assembly	1
3	294606	Seal – Oil	1
5	211778	Head – Cylinder	1
7	♦270430	Gasket – Cylinder Head	1
8	299848	Breather Assembly	1
9	♦27803	Gasket – Valve Cover	1
10	93394	Screw – Sem	1
10A	93536	Screw	1
11	280005	Tube – Breather	1
12	♦27750	Gasket – Crankcase Cover 1/64" thick	1
	♦27876	Gasket – Crankcase Cover – .005" thick	1
	♦27877	Gasket – Crankcase Cover – .009" thick	1
13	93210	Screw – Cylinder Head (2-9/32" long)	1
14	93211	Screw – Cylinder Head (2-21/32" long)	1
15	93418	Plug – Oil Drain (Hex. Socket)	1
16	390549	Crankshaft	1
18	298616	Sump – Oil	1
19	295963	Bushing – Oil Sump	1
		Note: Requires special tools for installation.	
20	298423	Seal – Oil	1
22	93205	Screw – Sump Mtg. Sem	1
23	390180	Flywheel – Magneto	1
24	61760	Key – Flywheel	1
25	390347	Piston Assy.– Standard	1
	390348	Piston Assy.–.010" O.S.	1
	390349	Piston Assy.– .020" O.S.	1
	390350	Piston Assy.–.030" O.S.	1
		PISTON RING SETS:	
26	299569	Ring Set – Piston – Std.	1
		Consists of:	
		211637 Ring, Piston, Comp., Top, Std.	1
		211636 Ring, Piston, Comp., Center, Std.	1
		211635 Ring, Piston, Oil, Std.	1
	299570	Ring Set – Piston – .010" O.S.	1
		Consists of:	
		211649 Ring, Piston, Comp., Top, .010" O.S.	1
		211650 Ring, Piston, Comp., Center, .010" O.S.	1
		211651 Ring, Piston, Oil, .010" O.S.	1
	299571	Ring Set – Piston – .020" O.S.	1
		Consists of:	
		211653 Ring, Piston, Comp., Top, .020" O.S.	1
		211654 Ring, Piston, Comp., Center, .020" O.S.	1
		211655 Ring, Piston, Oil, .020" O.S.	1
	299572	Ring Set – Piston – .030" O.S.	1
		Consists of:	
		211657 Ring, Piston, Comp., top, .030" O.S.	1
		211658 Ring, Piston, Comp., Center, .030" O.S.	1
		211659 Ring, Piston, Oil, .030" O.S.	1
27	68546	Lock – Piston Pin	1
28	295840	Pin Assy. – Piston – Std.	1
	295841	Pin Assy. – Piston –.005" O.S.	1
29	390402	Rod Assy. – Connecting	1
31	222114	Lock – Conn. Rod Screw	1
32	92659	Screw – Conn. Rod	1
33	390419	Valve – Exhaust	1
34	261055	Valve – Intake	1
35	65906	Spring – Intake Valve	1
36	26828	Spring – Exhaust Valve	1
40	221596	Retainer – Intake Valve	1
41	292260	Rotocoil – Exhaust Valve	1
42	93630	Retainer – Exhaust Valve Rotocoil	1
45	260933	Tappet – Valve	1
46	211689	Gear – Cam	1
75	220865	Washer – Spring	1
81	222003	Lock – Counterweight Screw	1
200	221760	Guide – Air	1
201	260971	Link – Governor	1
209	260723	Spring – Governor	1
219	298614	Oil Slinger, Gov. Gear and Bracket Assembly	1
222	298998	Plate – Gov. Control	1
225	230759	Shaft – Gov. Lever	1
227	298303	Lever Assy. – Governor	1
229	220680	Washer – Gov. Lever	1
230	221559	Washer – Gov. Lever	1
232	260584	Spring – Governor Link	1
261	93105	Screw – Sem	1
265	221535	Clamp – Casing	1
300	390249	Muffler – Exhaust	1
302	91242	Locknut – Muffler	1
304	299392	Housing – Blower	1
305	93158	Screw – Blower Housing Mounting Sem	1
306	221898	Shield – Cylinder	1
307	93163	Screw – Cylinder Shield Mounting Sem	1
308	221901	Cover – Cylinder Head	1
309	390307	Motor – Starting	1
(*)		American Bosch-Arma No. SMH 12-A11 (on Commutator End Cap)	
(**)		Made in Japan for B & S No. MMO.5 ML (on Main Housing)	

♦ Included in Gasket Set – Part No. 299577

MODEL 191707-0124 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

Ref. No.	Part No.	Description	No. Used
		Replacement Parts for Starting Motor No. 390307 (see list below)	
		Drive Assembly (complete) B & S No. 390443 (*) B & S No. 299963 (**)	
		Drive End Cap Assembly w/Bearing and Bracket. B & S No. 390444 (*) B & S No. 390454 (**)	
		Armature Assembly Including Washers. B & S No. 390446 (*) B & S No. 390456 (**)	
		Housing Assembly Including Field Coils. B & S No. 390447 (*) B & S No. 390452 (**)	
		Commutator End Cap Assy. Including Bushing, Brushes and Springs. B & S No. 390448 (*) B & S No. 390455 (**)	
		Thru Bolt Assembly Includes Nuts and Lockwashers B & S No. 390450 (*) B & S No. 299962 (**)	
		Brush Kit B & S No. 390449 (*)	
332	92284	Nut	1
333	298968	Armature Assembly	1
334	93381	Screw – Armature Mounting Sem	1
337	298809	Plug – Spark	1
		Note: Spark Plugs 298809 use Ignition Cable Terminal No. 211798	
340	26018	Spring – Breaker Arm	1
341	93381	Screw – Breaker Arm Mounting Sem	1
342	65704	Plunger – Breaker Point	1
344	93042	Screw – Condenser Mounting Sem	1
345	222117	Cover – Breaker Point	1
346	93014	Screw – Sem	1
352	66068	Washer – Insulating	1
353	92791	Washer – Lock – Shakeproof	1
354	90576	Nut – Hex. – 8-32	1
355	66554	Collar – Insulating	1

Ref. No.	Part No.	Description	No. Used
356	299500	Wire – Ground	1
358	299577	Gasket Set	1
372	220477	Clamp – Condenser	1
375	294628	Breaker Points and Condenser Set	1
		Note: 299061 Ignition Kit Includes:	
		294628 Point Set	1
		65704 Plunger	1
		61760 Key – Flywheel	1
423	93410	Screw – Sem	1
474	390185	Stator – Alternator	1
481	230976	Bushing – Stator	1
482	93621	Screw – Stator Mounting	1
485	390313	Knob Assy. – Fuse	1
486	67345	Fuse – 15 Ampere	1
488	222142	Bracket – Fuse	1
491	222115	Bracket – Rectifier	1
508	93294	Screw – Sem (Control Plate Strap and Blower Housing Mtg.)	1
516	260374	Spring – Connector	1
517	295423	Pulley – Rope Starter (with screen)	1
518	69932	Rope – Starter	1
552	230927	Bushing – Governor Shaft	1
562	92613	Bolt – Governor Lever	1
592	90356	Nut – Hex., 10-24	1
614	93306	Cotter – Hair Pin	1
615	93307	Retainer – E-Ring	1
657	93496	Screw – Sem	1
658	221827	Strap – Control Plate	1
665	296768	Oil Minder	1
673	93438	Screw	1
726	299543	Gear, Ring (Includes mounting parts)	1
727	390233	Cover and Shield – Starter	1
728	93535	Screw – Sem	1
729	221907	Clip – Wire	1
732	93490	Screw – Sem	1
741	230981	Gear – Timing	1
757	211675	Link – Counterweight	1
758	390172	Counterweight Assembly	1
759	298909	Pin – Counterweight	2
760	230940	Spacer – Counterweight	2
761	93564	Screw – Counterweight	2
763	390211	Electric Starter Kit	1
800	222095	Retainer	1
806	390545	Regulator – Alternator	1
809	390546	Rectifier – Alternator	1



MODEL NO. 390417 CARBURETOR ASSEMBLY (For Engine 191707-0124 and 190707-0142)

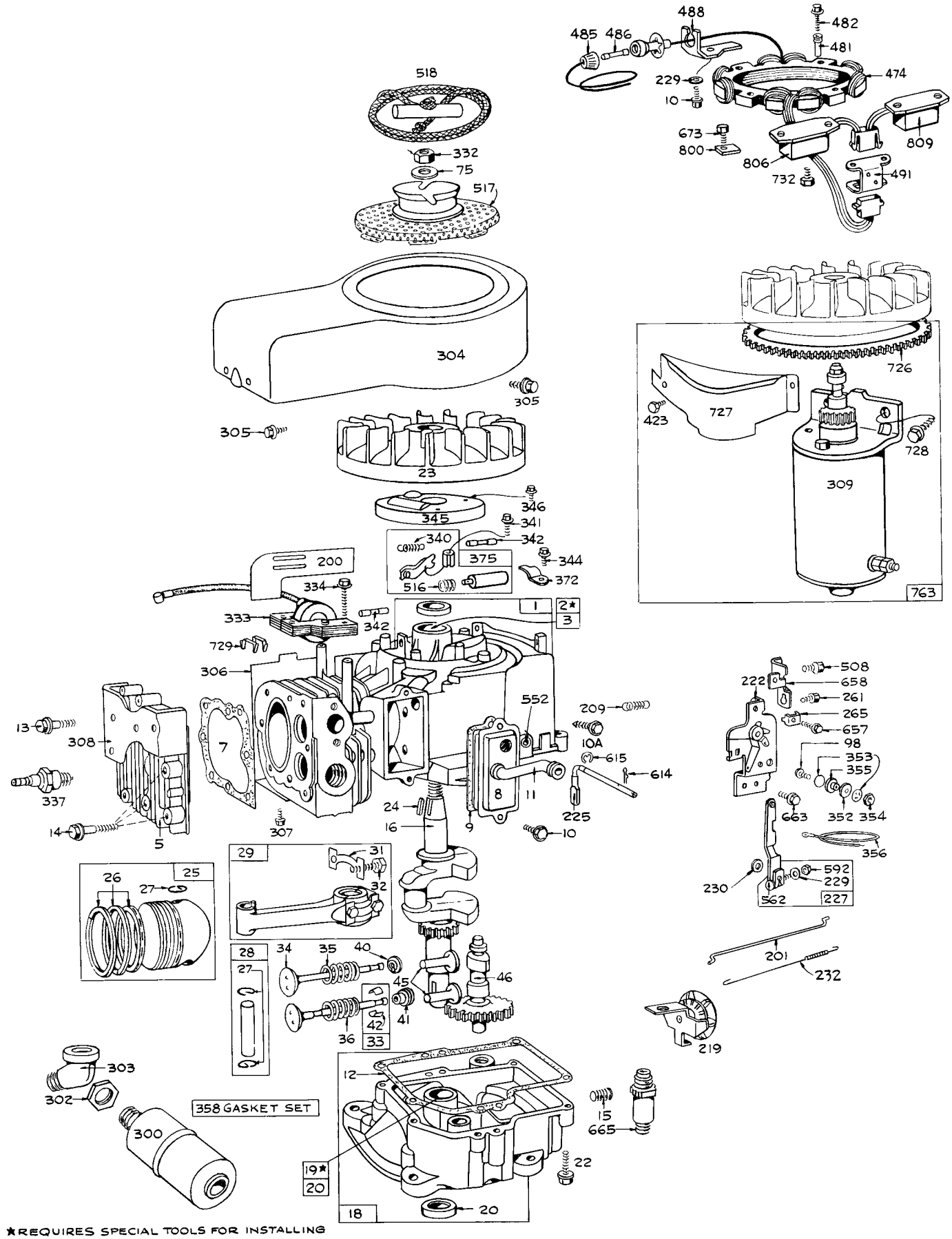
Ref. No.	Part No.	Description	No. Used
52	♦270538	Gasket – Carburetor Mounting	1
93	23108	Bushing – Throttle Shaft	1
94	‡†292681	Valve Assembly – Carburetor Idle	1
95	93038	Screw – Throttle and Choke Valve Mtg. Sem	1
98	91920	Screw – Machine, Fill. Head 8-32 x 5/8"	1
99	26157	Spring – Throttle Adjustment	1
101	93043	Pin – Throttle Stop	1
104	‡†230896	Pin – Float Hinge	1
108	222010	Valve – Choke	1
116	‡†68677	Packing – Needle Valve	1
117	‡†23118	Nut – Needle Valve Packing	1
118	‡299762	Valve – Needle	1
121	299852	Carburetor Overhaul Kit	1
123	93357	Screw – Carburetor Mounting	1
125	390417	Carburetor Assembly	1
126	299851	Body Assy. – Lower Carb.	1
127	221997	Plug – Welch	1
128	211682	Venturi – Carburetor	1
130	221986	Valve – Throttle	1
131	299650	Shaft and Lever – Throttle	1

♦ Included in Gasket Set – Part No. 299577
† Included in Carburetor Overhaul Kit – Part No. 295938

Ref. No.	Part No.	Description	No. Used
132	211712	Stop – Throttle	1
133	299707	Float – Carburetor	1
134	‡299096	Valve – Fuel Inlet	1
136	221995	Bowl – Float	1
137	‡270511	Gasket – Float Bowl	1
138	‡222014	Washer – Float Bowl	1
139	‡230935	Retainer – Jet Needle	1
141	299746	Shaft and lever – Choke	1
142	‡299740	Nozzle – Carburetor	1
147	‡230932	Screw – Nozzle	1
158	27590	Filter – Carburetor Drain	1
159	220521	Retainer – Carburetor Drain Filter	1
186	67218	Connector – Fuel Pipe	1
216	260979	Link – Choke	1
534	93323	Screw – Air Cleaner	1
534A	93622	Screw – Air Cleaner	1
535	270528	Element – Air Cleaner	1
536	390379	Cleaner Assy. – Air	1
537	270539	Gasket – Air Cleaner	1
634	270382	Washer – Choke Shaft	1
662	222027	Bracket – Carburetor	1
663	93572	Screw – Bracket Mtg.	1

‡ Included in Carburetor Overhaul Kit – Part No. 299852

MODEL 190707-0142 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON



★REQUIRES SPECIAL TOOLS FOR INSTALLING

MODEL 190707-0142 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

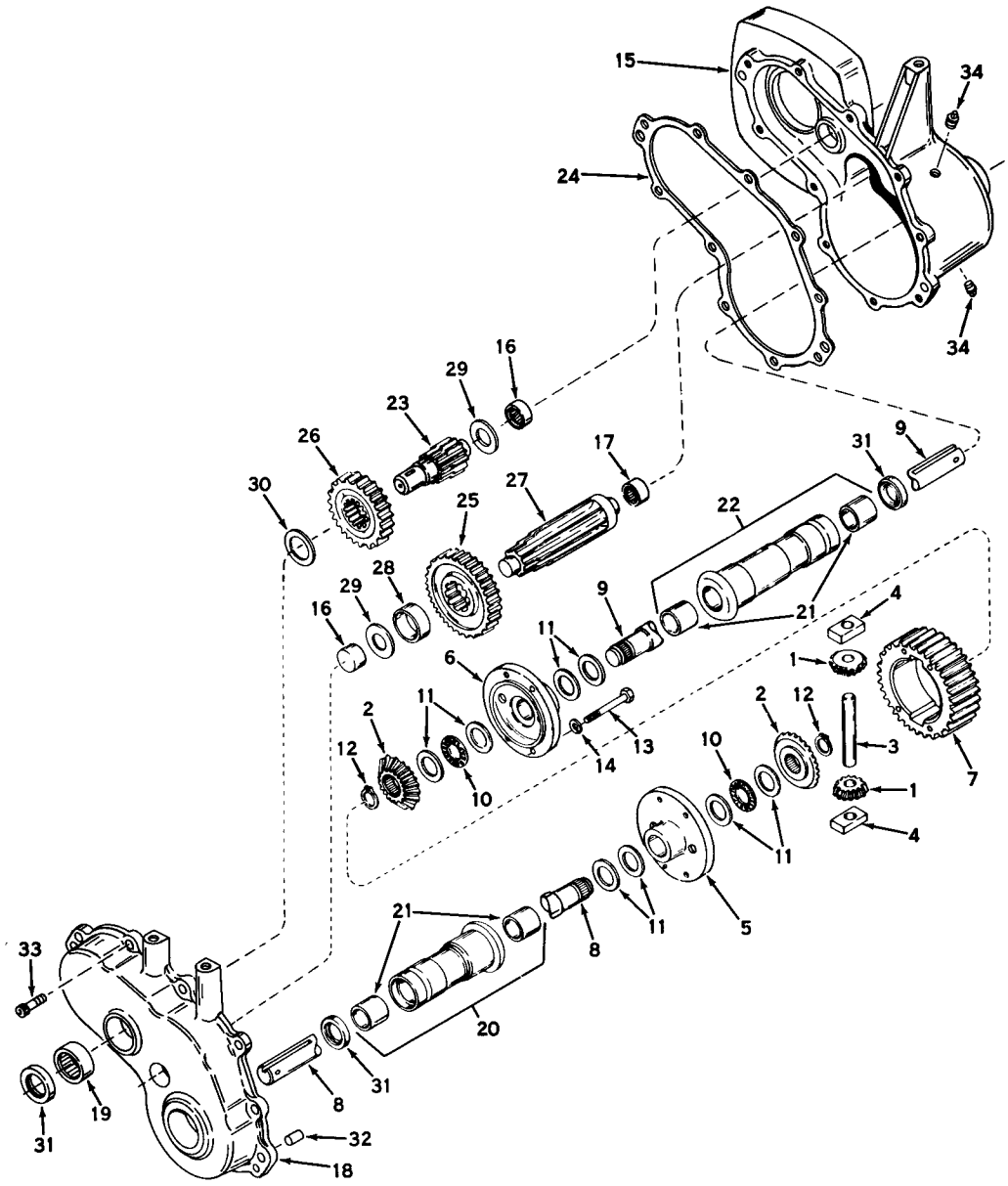
Ref. No.	Part No.	Description	No. Used
1	390380	Cylinder Assembly	1
2	295962	Bushing – Cylinder	1
		Note: Requires special tools for installation.	
3	294606	Seal – Oil	1
5	211778	Head – Cylinder	1
7	♦270430	Gasket – Cylinder Head	1
8	299848	Breather Assembly	1
9	♦27803	Gasket – Valve Cover	1
10	93394	Screw – Sem	1
10A	93536	Screw	1
11	280005	Tube – Breather	1
12	♦27750	Gasket – Crankcase Cover – 1/64" thick	1
	♦27876	Gasket – Crankcase Cover – .005" thick	1
	♦27877	Gasket – Crankcase Cover – .009" thick	1
13	93210	Screw – Cylinder Head (2-9/32" long)	1
14	93211	Screw – Cylinder Head (2-21/32" long)	1
15	93418	Plug – Oil Drain (Hex. Socket)	1
16	261083	Crankshaft	1
18	298616	Sump – Oil	1
19	295963	Bushing – Oil Sump	
		Note: Requires special tools for installation.	
20	298423	Seal – Oil	1
22	93205	Screw – Sump Mtg. Sem	1
23	390180	Flywheel – Magneto	1
24	61760	Key – Flywheel	1
25	390347	Piston Assy.– Standard	1
	390348	Piston Assembly – .010" O.S.	1
	390349	Piston Assembly – .020" O.S.	1
	390350	Piston Assembly – .030" O.S.	1
		PISTON RING SETS:	
26	299569	Ring Set – Piston – Std.	1
		Consists of:	
		211637 Ring, Piston, Comp., Top Std.	1
		211636 Ring, Piston, Comp., Center, Std.	1
		211635 Ring, Piston, Oil, Std.	1
	299570	Ring Set – Piston – .010" O.S.	1
		Consists of:	
		211649 Ring, Piston, Comp., Top, .010" O.S.	1
		211650 Ring, Piston, Comp., Center, .010" O.S.	1
		211651 Ring, Piston, Oil, .010" O.S.	1
	299571	Ring Set – Piston – .020" O.S.	1
		Consists of:	
		211653 Ring, Piston, Comp., Top, .020" O.S.	1
		211654 Ring, Piston, Comp., Center, .020" O.S.	1
		211655 Ring, Piston, Oil, .020" O.S.	1
	299572	Ring Set – Piston – .030" O.S.	1
		Consists of:	
		211657 Ring, Piston, Comp., Top, .030" O.S.	1
		211658 Ring, Piston, Comp., Center, .030" O.S.	1
		211659 Ring, Piston, Oil, .030" O.S.	1
27	68546	Lock – Piston Pin	1
28	295840	Pin Assy. – Piston – Std.	1
	295841	Pin Assembly – Piston – .005" O.S.	1
29	390402	Rod Assy. – Connecting	1
31	222114	Lock – Conn. Rod Screw	1
32	92659	Screw – Conn. Rod	1
33	390419	Valve – Exhaust	1
34	261055	Valve – Intake	1
35	65906	Spring – Intake Valve	1
36	26828	Spring – Exhaust Valve	1
40	221596	Retainer – Intake Valve	1
41	292260	Rotocoil – Exhaust Valve	1
42	93630	Retainer – Exhaust Valve Rotocoil	1
45	260933	Tappet – Valve	1
46	210728	Gear – Cam	1
75	220865	Washer – Spring	1
200	221760	Guide – Air	1
201	260971	Link – Governor	1
209	260723	Spring – Governor	1
219	298614	Oil Slinger, Gov. Gear and Bracket Assembly	1
222	298998	Plate – Gov. Control	1
		Used on type Nos. 0145, 0146, 1047, 0148, 0149, 0150, 0151, 0152, 0156, 0158, 0159, 0160, 0161, 0162, 0163, 0164, 0165, 0166.	
225	230759	Shaft – Gov. Lever	1
227	298303	Lever Assy. – Governor	1
229	220680	Washer – Gov. Lever	1
230	221559	Washer – Gov. Lever	1
232	260584	Spring – Governor Link	1
261	93105	Screw – Sem	1
265	221535	Clamp-Casing	1
300	390249	Muffler – Exhaust	1
302	91242	Locknut – Muffler and Elbow	1
303	91219	Elbow – Muffler 45° Street	1
304	299392	Housing – Blower	1
305	93158	Screw – Blower Housing Mounting Sem	1
306	221898	Shield – Cylinder	1

♦Included in Gasket Set – Part No. 299577

MODEL 190707-0142 ENGINE ASSEMBLY (Electric Start)
BRIGGS & STRATTON

Ref. No.	Part No.	Description	No. Used
307	93163	Screw – Cylinder Shield Mounting Sem	1
308	221901	Cover – Cylinder Head	1
309	390307	Motor – Starting Used on type Nos. 0114, 0115, 0121, 0122, 0129, 0130, 0132, 0136, 0137, 0139, 0140, 0142, 0144, 0145, 0146, 0148, 0150, 0151, 0154, 0155, 0158, 0159, 0162, 0164, 0166, 0168	
(*)		American Bosch-Arma No. SMH 12-A11 (on Commutator End Cap)	
(**)		Made in Japan for B & S No. MMO. 5 ML (on Main Housing)	
		Replacement Parts for Starting Motor No. 390307 (see list below)	
		Drive Assembly (Complete)	
		B & S No. 390443 (*)	
		B & S No. 299963 (**)	
		Drive End Cap Assembly w/Bearing and Bracket	
		B & S No. 390944 (*)	
		B & S No. 390454 (**)	
		Armature Assembly including Washers.	
		B & S No. 390446 (*)	
		B & S No. 390456 (**)	
		Housing Assembly including Field Coils.	
		B & S No. 390447 (*)	
		B & S No. 390452 (**)	
		Commutator End Cap Assy. including Bushing, Brushes and Springs.	
		B & S No. 390448 (*)	
		B & S No. 390455 (**)	
		Thru Bolt Assembly includes Nuts and Lockwashers.	
		B & S No. 390450 (*)	
		B & S No. 299962 (**)	
		Brush Kit	
		B & S No. 390449 (*)	
332	92284	Nut	1
333	298968	Armature Assembly	1
334	93381	Screw – Armature Mounting Sem	1
337	298809	Plug – Spark	1
340	26018	Spring – Breaker Arm	1
341	93381	Screw – Breaker Arm Mounting Sem	1
342	65704	Plunger – Breaker Point	1

Ref. No.	Part No.	Description	No. Used
344	93042	Screw – Condenser Mounting Sem	1
345	222117	Cover – Breaker Point	1
346	93014	Screw – Sem	1
352	66068	Washer – Insulating	1
353	92791	Washer – Lock – Shakeproof	1
354	90576	Nut – Hex. – 8-32	1
355	66554	Collar – Insulating	1
356	299500	Wire – Ground	1
358	299577	Gasket Set	1
372	220477	Clamp – Condenser	1
375	294628	Breaker Points and Condenser Set Note: 299061 Ignition Kit Includes: 294628 Point Set 65704 Plunger 61760 Key – Flywheel	1
423	93410	Screw – Sem	1
474	390185	Stator – Alternator	1
481	230976	Bushing – Stator	1
482	93621	Screw – Stator Mtg.	1
485	390313	Knob Assy. – Fuse	1
486	67345	Fuse – 15 Amp.	1
488	222142	Bracket – Fuse	1
491	222115	Bracket – Rectifier	1
508	93294	Screw – Sem (Control Plate Strap and Blower Housing Mounting)	1
516	260374	Spring – Connector	1
517	295423	Pulley – Rope Starter (with screen)	1
518	69932	Rope – Starter	1
552	230927	Bushing – Governor Shaft	1
562	92613	Bolt – Governor Lever	1
592	90356	Nut – Hex., 10-24	1
614	93306	Cotter – Hair Pin	1
615	93307	Retainer – E-Ring	1
657	93496	Screw – Sem	1
658	221827	Strap – Speed Control	1
665	296768	Oil Minder	1
673	93438	Screw	1
726	299543	Gear, Ring (Includes mounting parts)	1
727	390233	Cover and Shield – Starter	1
728	93535	Screw – Sem	1
729	221907	Clip – Wire	1
732	93490	Screw – Sem	1
763	390211	Electric Starter Kit – 12 Volt (Bendix)	1
800	222095	Retainer	1
806	390545	Regulator – Alternator	1
809	390546	Rectifier – Alternator	1



TRANSAXLE (PEERLESS) MODEL NO. 1302 ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	778014	Pinion, Bevel	1
2	778039	Gear, Bevel	1
3	786019	Pin, Drive	1
4	786027	Block, Drive	1
5	774028	Carrier, Differential	1
6	774029	Carrier, Differential	1
7	778033	Gear, Ring	1
8	774159	Axle, L. H.	1
9	774160	Axle, R. H.	1
10	780039	Bearing, Thrust	1
11	780042	Washer, Thrust	1
12	792018	Ring, Snap	1
13	792020	Screw, hex hd. cap	1
14	792006	Lockwasher	1
15	770052	Case Assembly (Incl. Nos. 16 & 17)	1
16	780013	Bearing, Needle	1
17	780088	Bearing, Needle	1
18	772063	Cover Assy. (Incl. Nos. 16 & 19)	1

Ref. No.	Part No.	Description	No. Used
19	780089	Bearing, Needle	1
20	782022A	Housing & Bushing Assy., L. H. (Incl. No. 21)	1
21	780054	Bushing	1
22	782023A	Housing & Bushing Assy., R. H. (Incl. No. 21)	1
23	776093	Shaft, Brake	1
24	788044	Gasket, Case to cover	1
25	778036	Gear, Output	1
26	778037	Gear, Idler	1
27	778041	Shaft, Output	1
28	786017	Spacer	1
29	780001	Washer	1
30	780090	Washer	1
31	788008	Seal, Oil	1
32	786026	Pin, Dowel	1
33	792052	Screw, Hex hd. self tapping	1
34	792010	Plug, Pipe	2

TRANSMISSION MAINTENANCE

GENERAL MAINTENANCE

TRANSMISSION

The transmission has been filled with oil at the factory and will not require oil change for the life of the transmission. The fluid level should be checked initially after 5 hours of operation and every 25 hours thereafter. At transmission operating temperatures, the oil level should rise no higher than the "hot" mark and after cooling and contraction should not drop lower than the "cold" mark. (See Fig. 1). If it is necessary to add oil, type "A" automatic transmission oil should be used.

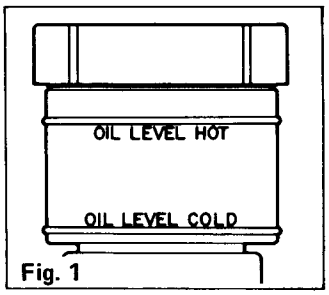


Fig. 1

TRANSAXLE UNIT

The transaxle unit should be checked each time the transmission is checked. If necessary, add type E.P. 90 transmission oil.

IMPORTANT: Always watch for oil leaks. Low level or inadequate oil will result in permanent damage to the hydraulic system.

Oil Filter:

A permanent filter is located beneath the oil filter adapter of the Hydrostatic Unit. This filter does not require changing or cleaning.

Cooling:

The Hydrostatic Unit exterior should be free of dirt, oil and grass, particularly the finned area behind the fan.

TROUBLESHOOTING

Contact your local authorized Toro Service Dealer for Transmission repairs and adjustments.

Tractor performance check of engine and transmission:

To perform a temporary power check, carefully "square off" or align both front wheels evenly against a solid wall. With both front tires firmly against this wall, place throttle control knob in 3/4 to full and gradually move speed control lever forward applying load slowly until tires spin.

This is only a temporary procedure to aid in quickly checking out general engine and transmission performance. However, a few tries are usually adequate to allow an experienced mechanic to observe general engine performance, such as engine miss, carburetor adjustment, etc.

If engine performance appears to be normal, a thorough inspection should be made of the transmission, axle, input drive line and control components. Proceed as follows:

1. **Input drive "V" belt** – Worn "V" belt results in uneven input power supply (slippage).
2. **Input pulley** – Must be secured to the input shaft, loose pulley will cause fretting of the pulley hub, woodruff key, key slot in shaft, erratic power transmittal and damage to the finned cover.
3. **Idler pulley** – Maintain proper tension of "V" belt for power transmittal. (See section on traction belt adjustment.)
4. **Axle** – Determine if axle is in satisfactory working condition.
5. **Control linkages** – Adjust and secure linkages leading from transmission to control lever. Replace worn parts to minimize free movement of linkages. Do not overstroke.

CAUTION: The maximum control lever movement in either direction is set at the factory. Any modifications to overstroke the control lever will eventually result in permanent damage to the transmission.

6. **Inspect entire transmission and axle for oil leaks and isolate.**

CAUTION: If inspection is made while tractor is blocked up and engine running, be aware of spinning fan and turning wheels.

Hydrostatic Unit:

A. Loss of power output
   1) Oil level in reservoir below normal level continuously.
   2) Input power supply inadequate (loose V belt, pulley, Idler)
   3) Control linkages out of adjustment.
   4) Output pinion gear defective or missing.
   5) Axle – Defective.
   6) Defective Hydrostatic Unit*
   7) Missing or sheared wheel hub keys.

B. Transmission overheating
   1) Finned area of hydrostatic unit dirty or clogged with grass.
   2) Defective cooling fan
      a) Fan blade missing
      b) Loose fan
      c) Improper fan blade pitch angle
   3) Oil level in reservoir below normal
   4) Working loads beyond capabilities of transmission
   5) Defective Hydrostatic Unit.*

C. Loss of oil – (isolate)
   1) Input shaft oil seal – (Oil leak visible)*
   2) Control shaft oil seal – (Oil leak visible)*
   3) "O" ring on oil inlet, adapter plate of Hydrostatic unit, missing or defective (Oil leak visible)*
   4) Output shaft oil seal (not visible). Indications of oil leak in this area can be noted by the oil level being above normal in the axle housing. Check should be made with cold axle.*

*Replace Hydrostatic pump-motor rather than attempting repairs.

MAINTENANCE (Continued)

NEUTRAL SPEED ADJUSTMENT

If tractor "creeps" while pedal is depressed, adjust the transmission control rod. To make this adjustment, proceed as follows:

1. Loosen two (2) jam nuts on the transmission control rod.
2. Turn rod (to lengthen) to correct reverse creeping.
3. Turn rod (to shorten) to correct forward creeping.
4. Tighten jam nuts. **CAUTION:** Hold ball joint body when tightening jam nut. Further adjustment may be necessary by repeating above steps 2 or 3.

SPEED CONTROL LEVER ADJUSTMENT

If speed control lever tends to creep while tractor is running, it may be necessary to adjust friction on lever. Proceed as follows:

1. Tighten locknut to increase friction. Loosen to decrease friction.
2. DO NOT tighten locknut excessively.

SAFETY SWITCH ADJUSTMENT

To adjust safety switch, loosen two (2) nuts "C" on each side of switch. Position switch so that the pedal lever depresses switch button 1/8" when pin is against end of slot "B" (See Fig. 2).

CAUTION: Before performing any service operation on the tractor, be sure to disconnect the spark plug wire to prevent accidental starting of the engine.

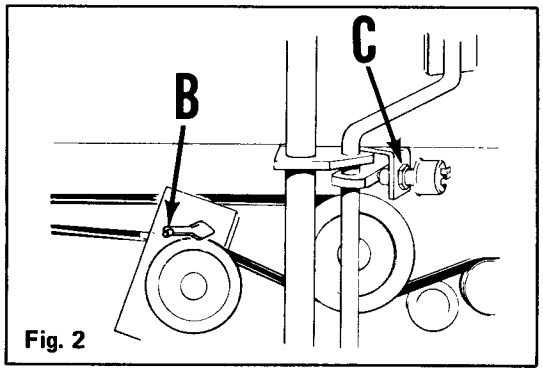


Fig. 2

TRACTION BELT TENSION ADJUSTMENT

The traction drive belt tension has been adjusted at the factory and should not require further adjustment until the second season of tractor operation. Adjustment is required when the tractor will not climb a hill or reach top ground speed. Remove screw "A" and turn traction drive lever and retainer one full turn clockwise. Replace screw "A". If the tractor still does not perform satisfactorily, one additional turn may be required.

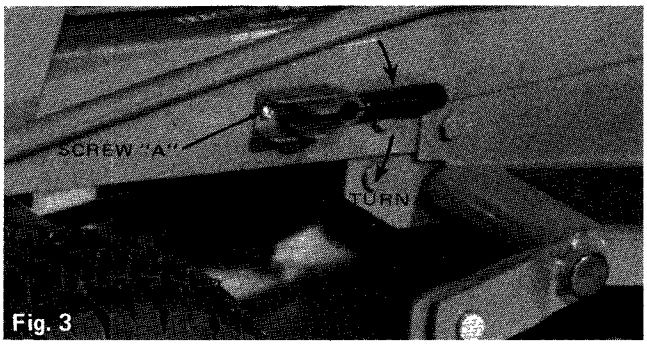


Fig. 3

OFF SEASON STORAGE

1. If it is necessary to store the tractor and the attachments for more than 60 days, remove all grass clippings, mud and dust. Wipe all lubrication points clean and lubricate.
2. Drain the gasoline from the fuel tank and the carburetor to prevent formation of gummy deposits. Run the engine until any remaining fuel is consumed. Drain the oil from the engine crankcase while warm and refill with clean oil.
3. When preparing the engine for prolonged storage, put one tablespoon of engine oil (SAE 10W) into the spark plug hole, after the spark plug has been removed. Turn the engine slowly by hand to allow the piston to distribute the oil evenly over the cylinder walls. Replace the spark plug with an old plug which will not be used again, or plug the hole with a cork. (This prevents fouling the good plug with the oil used to protect the cylinder and piston.)
4. Before starting engine, remove the old spark plug after being sure it is clean and properly gapped according to the engine manufacturer's instructions. Check the oil in the engine and fill the fuel tank. The tractor is now ready again for operation.
5. After prolonged storage of the tractor, it may be necessary to have the battery charged at the beginning of the season. The simplest instructions for the storage of a battery between seasons are that it be charged when stored, and then stored in a cool place, but not where it will be subjected to sub-zero temperatures. Storage at 20° to 50° is ideal. Battery should be disconnected from circuit if tractor is to be stored for 30 days or more.

MAINTENANCE (Continued)

SERVICING THE AIR CLEANER

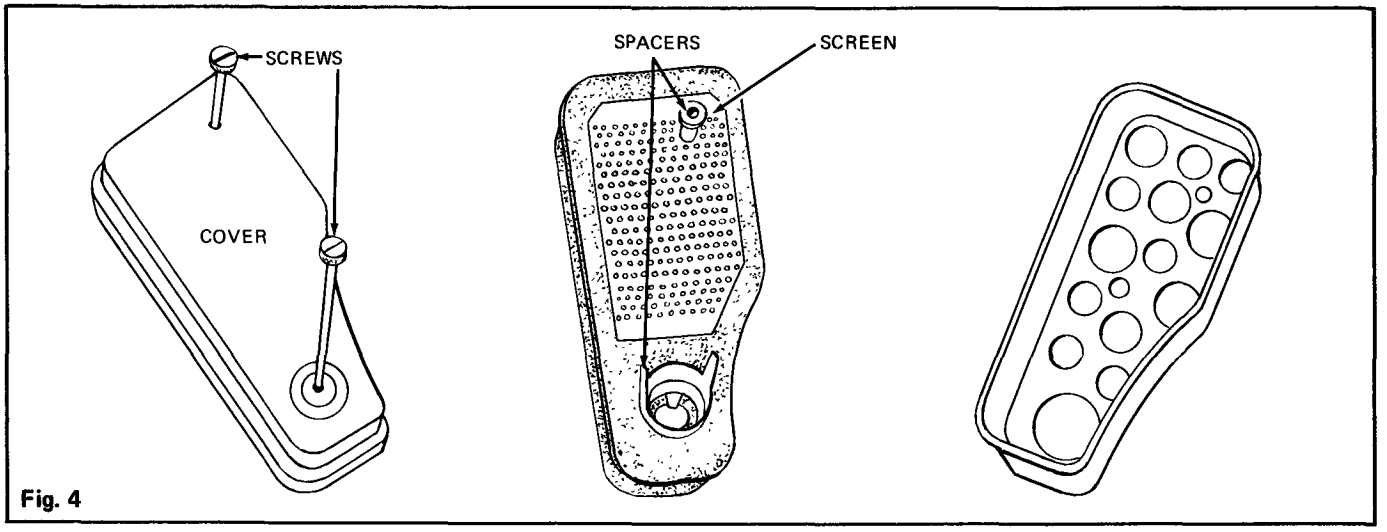


Fig. 4

CLEAN AIR CLEANER and re-oil element every 25 hours under normal conditions.

1. Remove two screws and lift off complete air cleaner assembly.
2. Remove screen and spacers from foam element.
3. Remove foam element from air cleaner body.
4. A. Wash foam element in kerosene or liquid detergent and water to remove dirt.
   B. Wrap foam in cloth and squeeze dry.
   C. Saturate foam in engine oil. Squeeze to remove.
   D. Assemble parts – fasten to carburetor with screw.

When assembling make certain the lip of the foam element extends over edge of the air cleaner body. The foam element lip will form a protective seal.

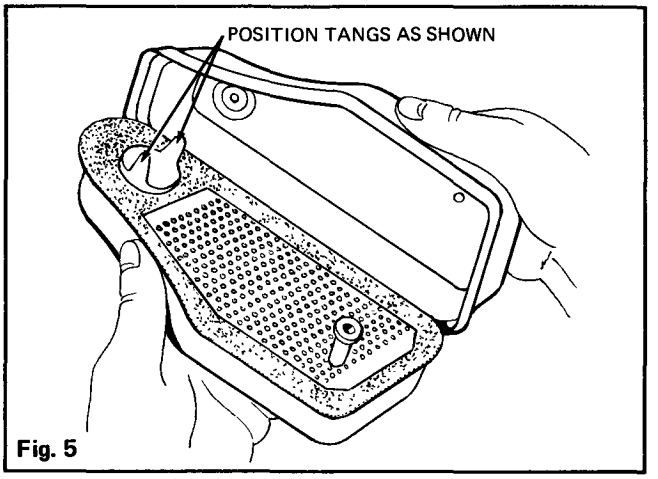


Fig. 5

CARBURETOR ADJUSTMENTS

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To Adjust Carburetor

Turn needle valve clockwise until it just closes.

CAUTION: Valve may be damaged by turning it in too far.

Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

Final Adjustment

Turn needle valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the mid-point between rich and lean so the engine runs smoothly. Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed

ADJUSTING THE CARBURETOR

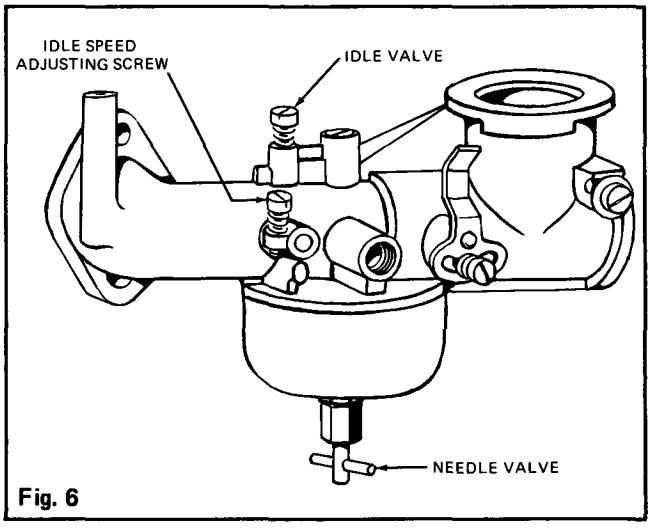


Fig. 6

adjusting screw so that engine idles at 1750 RPM. Release throttle – engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be re-adjusted to a slightly richer mixture.

SPECIFICATIONS

ENGINE: 8 H.P., 4 cycle, air cooled, polyurethane element.

FUEL TANK CAPACITY: .9 Gallon under hood

TRANSMISSION: Hydrostatic unit directly coupled to one speed rear axle. Hydrostatic has piston pump, piston motor; integral oil reservoir. 7" cooling fan, axle has cast iron casing, bevel gear differential, 1" axle shaft with ¼" keyway.

Hydrostatic unit oil: Texaco Transhydral 2209; Axle oil: No. 90 Gear lubricant.

SPEEDS: At 3400 engine RPM:
Forward: infinitely variable from 0 to 5.0 MPH
Reverse: infinitely variable from 0 to 2.0 MPH

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

TIRES:
Front: 13 x 5.00 - 6 Tubeless pneumatic Terra-Tire.
Rear: 8 x 8.50 - 8 Tubeless pneumatic Terra-Tire.

SEAT: Adjustable to two positions. Seat backrest adjustable to three positions.

LIGHTS: Headlights standard.

STEERING: 13" diameter, 3 spoke, 3" dished steering wheel.

CUTTER DRIVE: Belt drive from jackshaft ahead of engine.

CUTTER WIDTH: 36"

BLADE: Two 8 gauge 18" fully hardened alloy steel.

BLADE TIP SPEED: 16,500 FPM @ 3400 engine RPM.

HEIGHT-OF-CUT: 1½" to 4" by control lever with infinite height variation.

STARTING: 12 Volt electric start with key switch.

CONTROLS:

Engine: Control wire and casing with slow, fast and choke positions mounted on dash.

Transmission: Single lever with cam type linkage to hydrostatic unit. Adjustable friction with adjustable neutral position and positive neutral detent.

Traction: Disengage lever to declutch traction belt allows rider to be pushed or towed.

Brake: Foot operated pedal - right side. Coupled to hydrostatic unit, control provides hydraulic braking.

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

GAUGES: Oil minder oil lever gauge, ammeter and gas gauge.

DIMENSIONS:
Wheel base: 42"
Wheel tread: 25" front
23¾" rear
Width: 42½" w/cutter housing
32" w/o cutter housing
Length: 57"
Height: 35"
Turning radius: 25½"

WEIGHT: 400 pounds with cutter housing.

SAFETY FEATURES: Meets U.S.A.S. specifications. Brake pedal returns transmission control to neutral. Automatic blade brake. Engine cannot be started unless transmission control is in neutral and brake is applied. Enclosed and guarded drive.

OPTIONAL EQUIPMENT:
36" Snow Blade attachment, Model No. 59034
36" Snow Blower attachment, Model No. 59032
Dump Cart, Model No. 59003
36" Lawn Roller, Model No. 10T
36" Lawn Aerator, Model No. 36H
36" Seeder Spreader, Model No. 36H-26
30" Lawn Sweeper, Model No. TE-6430
Spray Boom, Model No. 42254
York Rake, Model No. RM
36" Spiker, Model No. F65
Bagging Kit, Model No. T-100
Headlight Kit, Model 59037
Tire Chains: 18 x 8.50 - 8
Snow Cab, Model No. 3465
Electric Grass Trimmer, Model No. 87007

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.

TORO

We Take Care™

IMPORTANT ORDERING INSTRUCTIONS

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

1. Serial number of your tractor 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

Toro Manufacturing Corporation 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 a 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 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
Minneapolis, Minnesota 55420

Form No. 3310-88

Litho in U.S.A.