



**Wheel Horse®**

**TRACTORS / SNOWTHROWERS / MOWERS**

**PRIOR MODELS  
SECTION II**

**DEALER PARTS MANUAL  
AND  
SERVICE NOTES**

**FOR —**

**1958-1964 TRACTORS — MODELS:**

**1054, 854, 704, 654, 604,  
953, 753, 653, 633, 603,  
702, 552, 502,  
701, 551, 401,  
550, 400  
RJ-59, RJ-58**

**LAWN RANGER MODELS:**

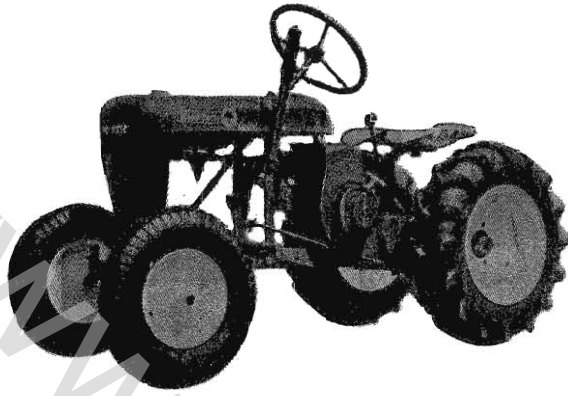
**34E, 34R, 33E, 33R, 32E, 32R**

**WITH —  
SPECIFICATIONS  
AND  
WIRING DIAGRAMS**

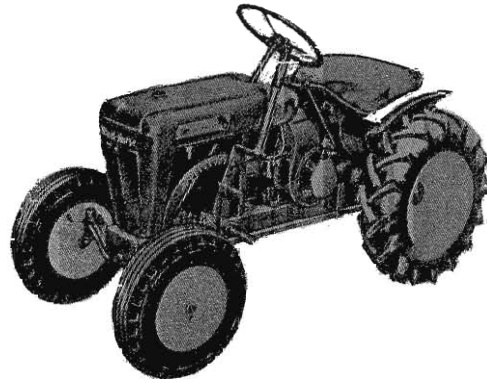
**Wheel Horse Products, Inc.**

**SOUTH BEND, INDIANA 46614**

# TRACTOR IDENTIFICATION



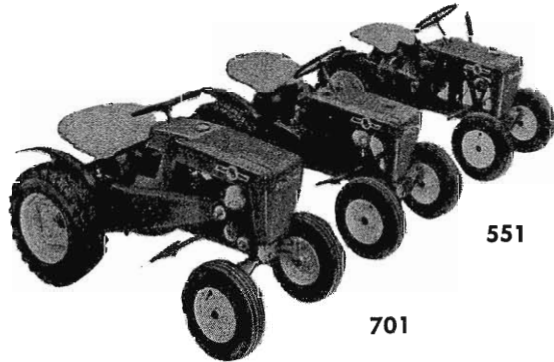
RJ-58-59



SUBURBAN "400"  
SUBURBAN "550"



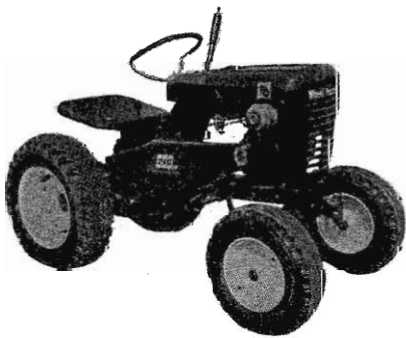
502, 552, 702,  
633, 653, 753



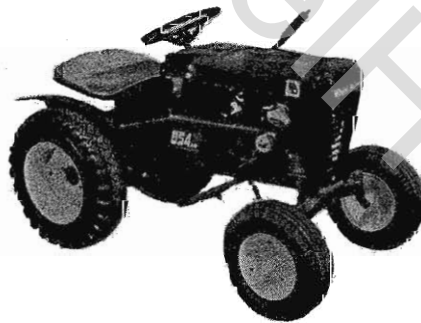
401

551

701



603



854



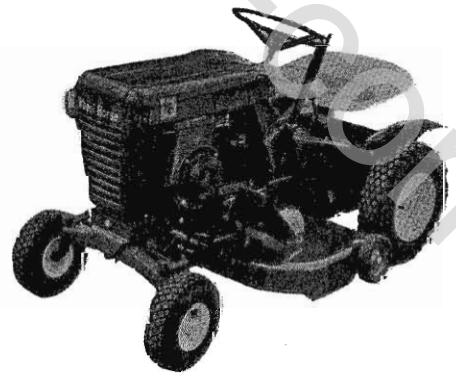
604, 654, 704



32R, 32E  
33R, 33E



953, 1054



34R, 34E

## CONTENTS

TRACTOR PARTS LIST	PAGE
1054 .....	1
854 .....	6
604, 654, 704 .....	10
34E, 34R .....	13
953 .....	18
633, 653, 753 .....	24
603 .....	28
33E, 33R (W/Transmission) .....	32
502, 552, 702 (W/Transmission) .....	37
32E, 32R (W/Transmission) .....	42
401, 551, 701 (W/Transmission) .....	47
400, 550 (W/Transmission) .....	55
RJ-58, RJ-59 (W/Transmission) .....	57

### TRANSMISSION PARTS LIST

5047, (1054) .....	59
5046 (34E, 34R, 604, 654, 704) .....	60
5045 (953) .....	61
5025 (32E, 32R, 33E, 33R, 502, 552, 702, 603, 663, 653, 753, 854) ..	62
5003-5010 (RJ-58, RJ-59, 400, 550, 401, 551, 701) .....	63

### SERVICE NOTES

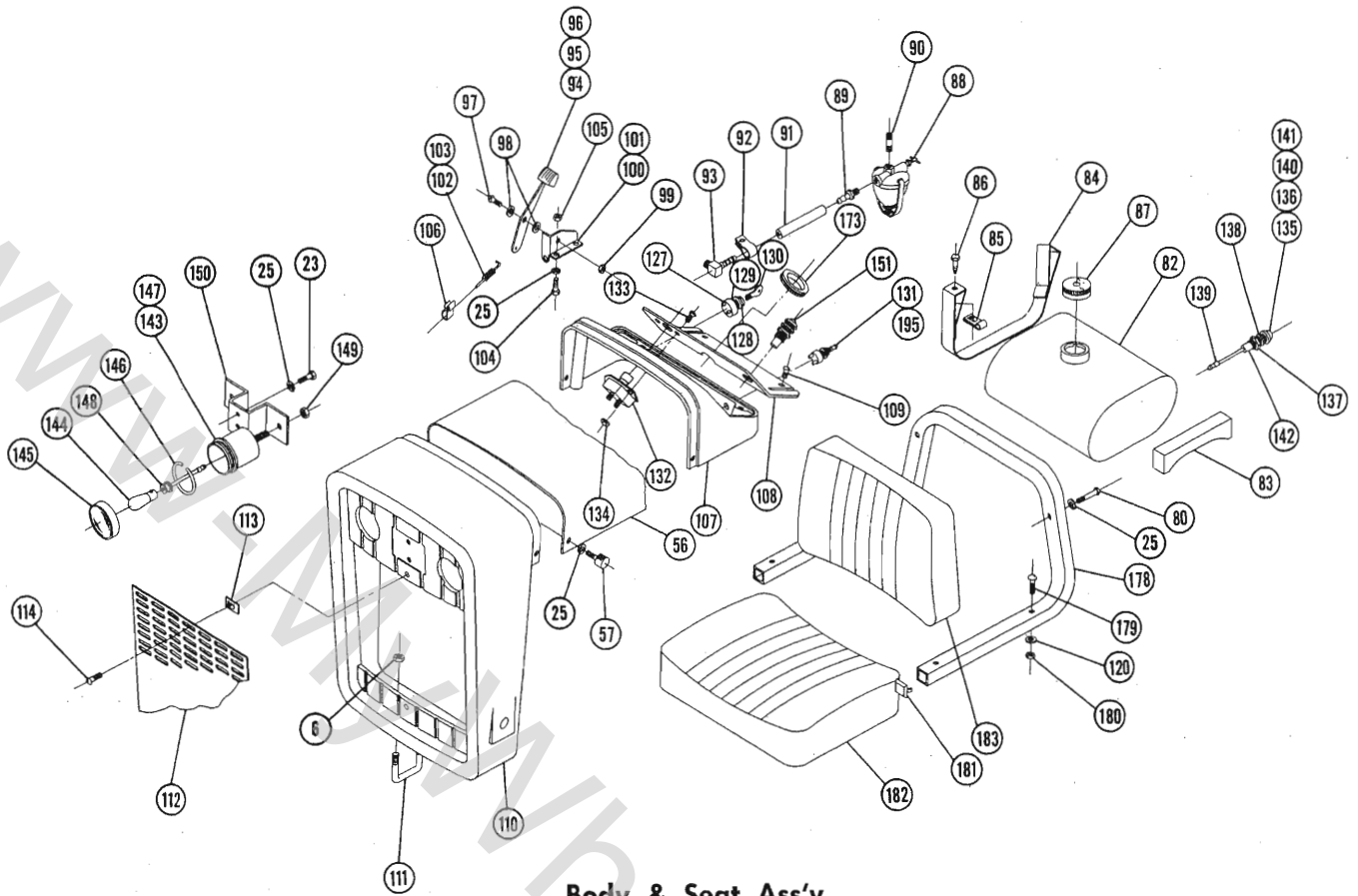
5003 - 5010 Transmissions .....	65
Specification Chart .....	66
Lubrication .....	66
General Maintenance	
1054, 953 .....	67
All Others .....	70

## A WORD ABOUT USING THIS MANUAL

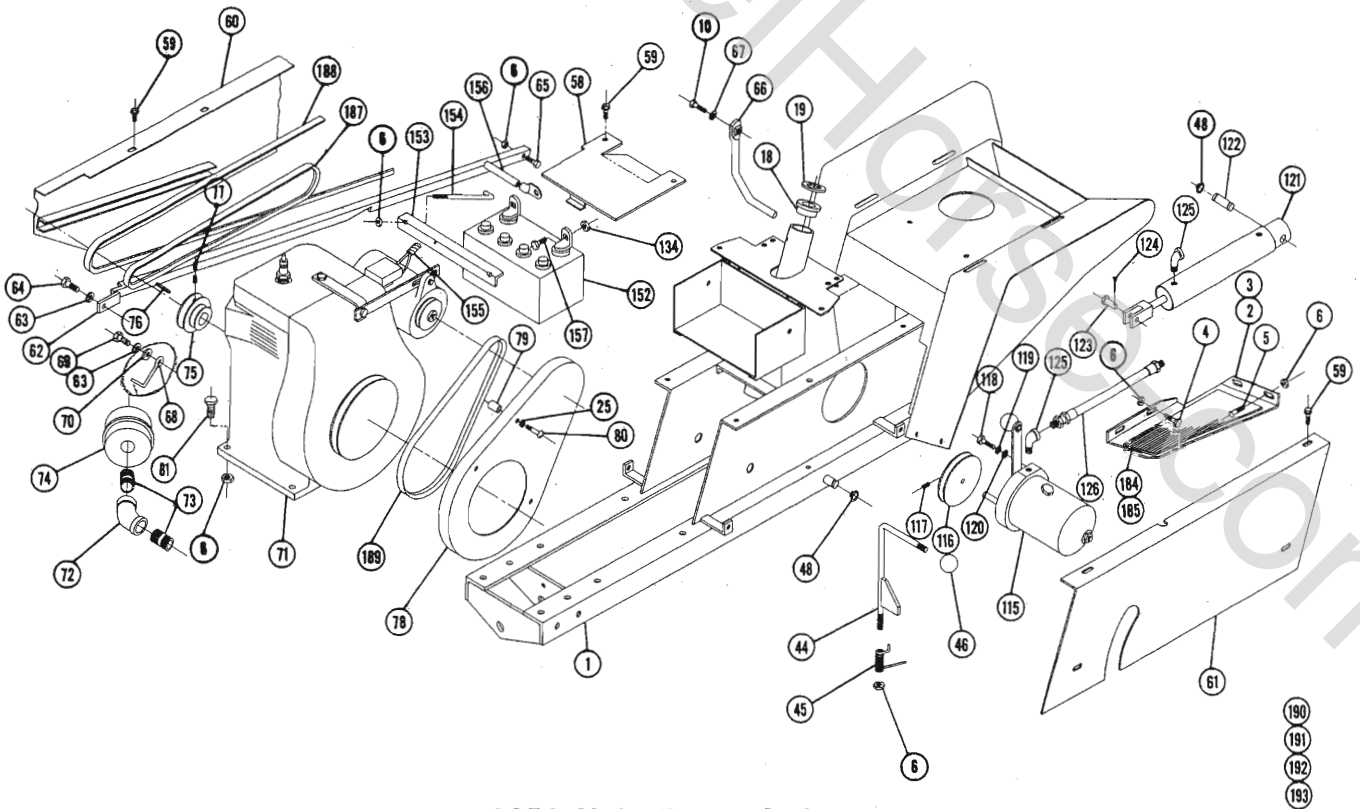
This parts manual has been compiled from original exploded view drawings and parts lists which appeared in the owners manuals for the tractors listed in the table of contents above.

A number of the parts originally specified — and appearing in this manual — have been superseded by improved parts with different part numbers.

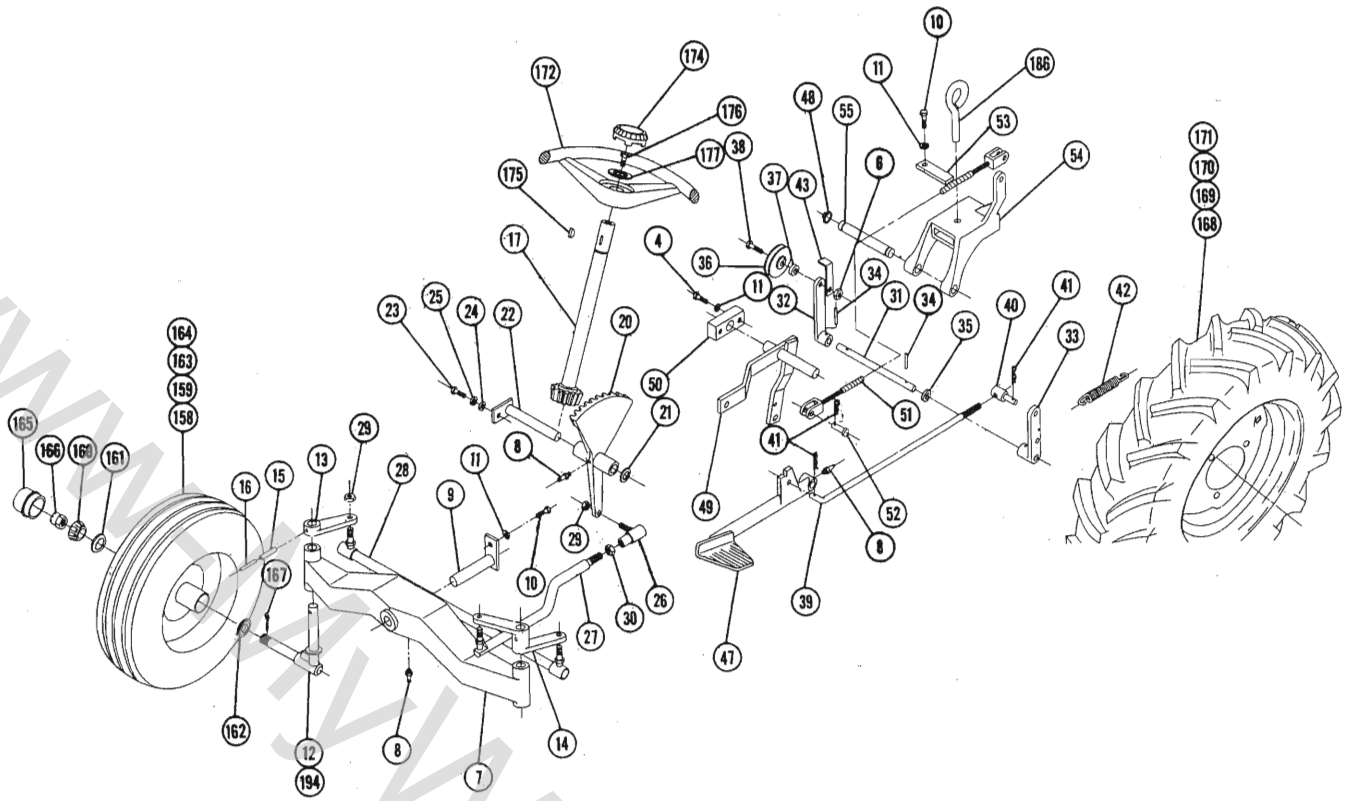
In all cases, before ordering parts, cross check the number from this manual with your current parts price list to be sure you are ordering the latest part number.



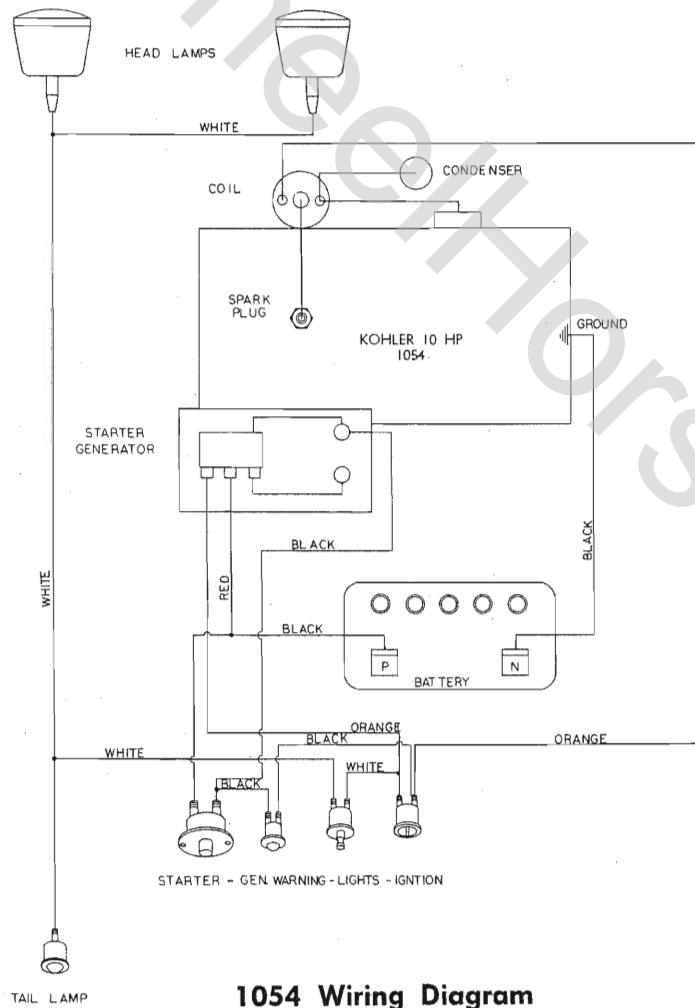
**Body & Seat Ass'y.**



**1054 Main Frame Ass'y.**



**Steering & Wheel Ass'y.**



**1054 Wiring Diagram**

# 1054 TRACTOR PARTS LIST

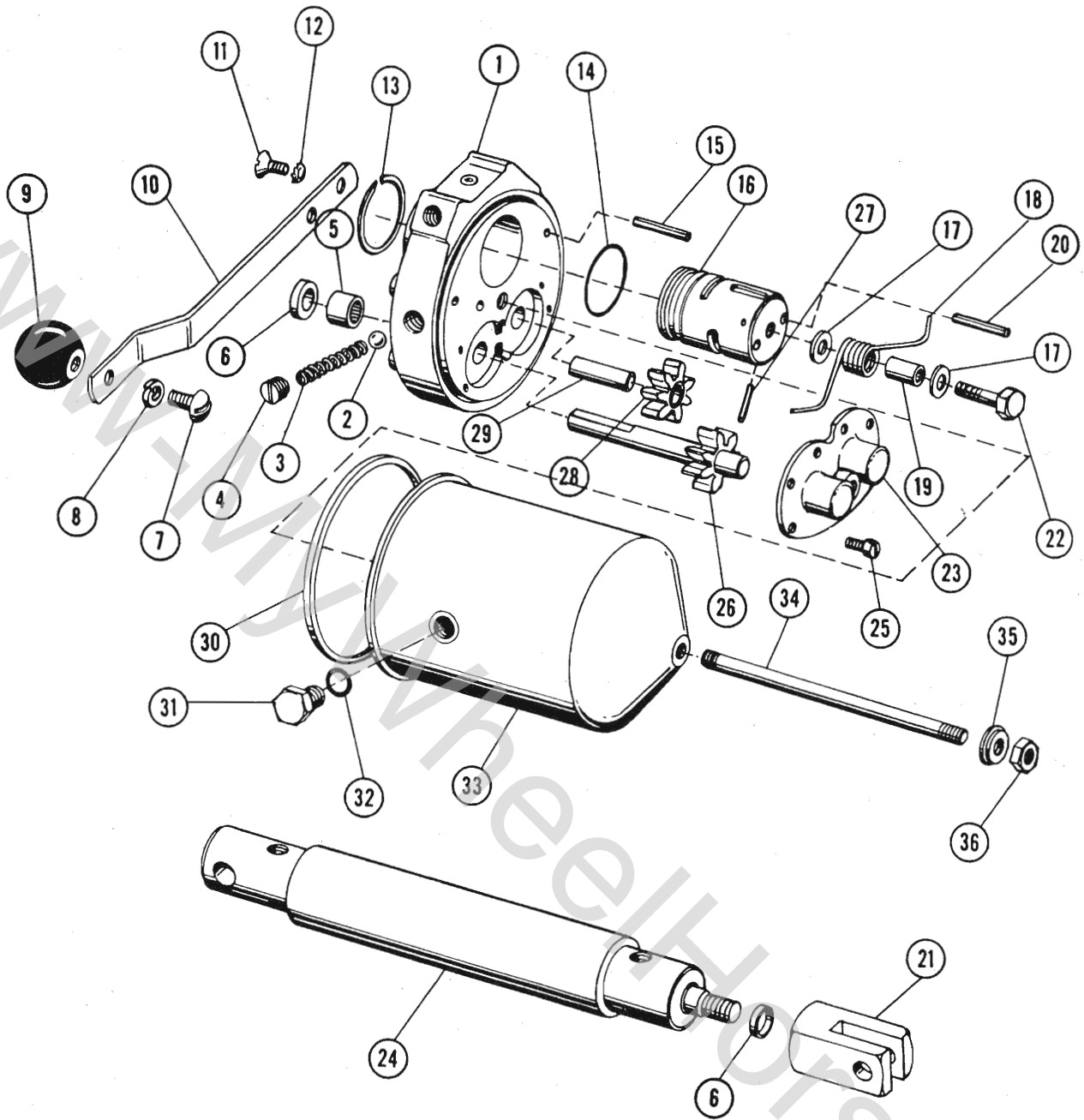
(Except Transmission — see page 59 for Transmission Parts List.)

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	4876	Ass'y. Frame	1	52	932121-4	Pin — Clevis $\frac{5}{16}$ Dia.	2
2	2744	Foot Rest — R.H.	1	53	3583	Lug — Cable	1
3	2745	Foot Rest — L.H.	1	54	3926	Hitch	1
4	908033-4	Bolt Hex $\frac{3}{8}$ -16 x $\frac{7}{8}$	8	55	3988	Pin	1
5	909083-4	Bolt Rd. Hd. $\frac{3}{8}$ -16 x $\frac{5}{8}$	4	56	2841	Cover — Hood	1
6	915113-6	Nut — Nylok $\frac{3}{8}$ -16	19	57	1345	Thumb Screw	4
7	2773	Axle — Front	1	58	2792	Ass'y. Cover — Shift Stick	1
8	1030	Fitting — Grease	6	59	1385	Bolt — Hex — Sems $\frac{1}{4}$ -20 x $\frac{1}{2}$	11
9	2736	Ass'y. Pin & Plate	1	60	2795	Ass'y. Belt Guard R.H.	1
10	908032-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	3	61	2783	Guard L.H.	1
11	920083-4	Lock Washer $\frac{3}{8}$ Dia.	6	62	4195	Ass'y. Belt Guide	1
12	3365	Ass'y. Spindle — L.H.	1	63	920084-4	Lockwasher $\frac{1}{16}$ Dia.	2
13	2733	Arm — Steering R.H.	1	64	908046-4	Bolt — Hex $\frac{7}{16}$ -14 x 1	1
14	2732	Arm — Steering L.H.	1	65	908034-4	Bolt — Hex $\frac{3}{8}$ -16 x 1	1
15	933230	Roll Pin $\frac{5}{16}$ x $1\frac{1}{2}$	2	66	4486	Ass'y. Belt Stop	1
16	933192	Roll Pin $\frac{3}{16}$ x $1\frac{1}{2}$	2	67	920156-4	Lockwasher $\frac{3}{8}$ Internal Tooth	1
17	4885	Ass'y. Shaft & Pinion — Steering	1	68	4796	Guide — Belt	1
18	4890	Bushing — Steering Column	2	69	908046-4	Bolt — Hex $\frac{7}{16}$ -14 x 1	1
19	5209	Washer	1	70	920010-4	Washer $\frac{1}{16}$ SAE	1
20	4880	Sector — Steering	1	71	5230	Ass'y. Engine 10 H.P. Kohler	1
21	5208	Washer — Shim	1	72	3939	Elbow 1" x 45° (Exhaust)	1
22	4883	Ass'y. Shaft & Plate	1	73	3947	Nipple 1" Close (Exhaust)	2
23	908001-4	Bolt — Hex $\frac{1}{4}$ -20 x $\frac{1}{2}$	3	74	2873	Muffler	1
24	920007-4	Washer $\frac{1}{4}$ SAE	1	75	2720	Pulley	1
25	920081-4	Lockwasher $\frac{1}{4}$ Dia.	18	76	1349	Key $\frac{1}{4}$ x $\frac{1}{4}$ x $1\frac{1}{2}$	1
26	2710	Ass'y. Ball Joint	1	77	909862-6	Set Screw — Nylok $\frac{5}{16}$ -18 x $\frac{5}{16}$	2
27	4891	Rod — Drag Link	1	78	2834	Guard — Engine	1
28	2711	Ass'y. Tie Rod	1	79	2833	Spacer	3
29	915002-6	Nut — Hex Nylok $\frac{3}{8}$ -24	4	80	909060-4	Bolt — Rd. Hd. $\frac{1}{4}$ -20 x $1\frac{1}{2}$	5
30	915004-6	Nut — Hex Nylok $\frac{1}{2}$ -20	1	81	908035-4	Bolt — Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	4
31	3017	Shaft — Idler Arm	1	82	2718	Fuel Tank	1
32	2891	Arm	1	83	2728	Block — Wood	2
33	4199	Arm — Clutch Rod Pivot	1	84	2717	Strap	2
34	933190	Roll Pin $\frac{3}{16}$ x $1\frac{1}{4}$	2	85	3698	Speed — Nut	4
35	2731	Washer	1	86	926319-4	Screw #14 x 1 Rd. Hd. Self Tap.	4
36	1623	Pulley — Idler	1	87	2714	Cap — Tank	1
37	1536	Bushing	1	88	1786	Ass'y. Fuel Strainer	1
38	908035-4	Bolt — Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	1	89	1787	Nipple $\frac{1}{8}$ -27 Nylon	1
39	2741	Rod — Clutch	1	90	1192	Nipple $\frac{1}{8}$ x 1	1
40	1861	Stud — Clutch Rod	1	91	2739	Hose — Fuel Line	1
41	S-52-3	Hairpin	4	92	4256	Clamp — Hose	2
42	1129	Spring — Clutch	1	93	1217	Elbow — Nylon $\frac{1}{8}$ -27	1
43	2291	Bracket — Idler Throw-Out	1	94	2784	Ass'y. Control — Throttle (Complete)	1
44	2830	Ass'y. Lever — Brake	1	95	2785	Ass'y. Control — Choke (Complete)	1
45	2835	Spring — Torsion	1	96	3797	Lever & Knob	2
46	1001	Knob	1	97	3329	Screw — Special	2
47	2777	Pedal — Clutch	1	98	3330	Washer	4
48	S-50-75	Snap Ring Truarc $\frac{3}{4}$ Shaft	5	99	915000-6	Nut — Nylok $\frac{1}{4}$ -28	2
49	4877	Ass'y. Lift Lever	1	100	4190	Bracket — Control R.H.	1
50	2754	Block — Lift Pivot	2	101	4191	Bracket — Control L.H.	1
51	2814	Ass'y. Cable & Yoke	1	102	3798	Cable Ass'y. — Control — Throttle	1

## 1054 TRACTOR PARTS LIST (Cont'd)

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
103	4034	Cable Ass'y. — Control — Choke	1	150	2886	Bracket — Headlight	1
104	908003-4	Bolt — Hex ¼-20 x ¾	6	151	2774	Ass'y. Lamp — Gen. Warning	1
105	915111-6	Nut — Nylok ¼-20	2	152	2712	Battery	1
106	3023	Retainer — Cable	2	153	2725	Angle — Battery Clamp	1
107	2798	Housing — Control Panel	1	154	2724	Hook — Battery Clamp	2
108	2870	Panel — Control	1	155	2848	Wiring Harness	1
109	2874	Bolt Rd. Hd. 10-24 x ⅝ (Black)	4	156	4432	Wire — Ground	1
110	2815	Housing — Grill	1	157	908002-4	Bolt — Hex ¼-20 x ⅝	2
111	3764	"U" Bolt	2	158	3368	Ass'y. Wheel, Tire & Tube — Front	2
112	2810	Grill	1	159	3369	Ass'y. Wheel & Bearing	2
113	3699	Speed Nut	2	160	3370	Cone — Bearing	4
114	926317-4	Screw #14 x ¾ Rd. Hd. Self Tap.	2	161	3371	Cup — Bearing	4
115	5248	Ass'y. Pump — Hydraulic	1	162	3373	Seal — Bearing	2
116	4812	Pulley	1	163	1656	Tire	2
117	909861-6	Set Screw ⅝-18 x ¼ Nylok	2	164	1657	Tube	2
118	908016-4	Bolt ⅝-18 x ⅝	4	165	3372	Hub Cap	2
119	920082-4	Lockwasher ⅝ Dia.	4	166	915035-4	Nut — Castle ¾-16	2
120	920008-4	Washer ⅝ SAE	8	167	932019-4	Cotter Pin ⅝ x 1½	2
121	5249	Ass'y. Cylinder — Hydraulic	1	168	2845	Ass'y. Wheel, Tire & Tube — Rear	2
122	2747	Pin — Pivot	1	169	2715	Wheel	2
123	932124-4	Pin — Clevis ½ Dia.	1	170	2722	Tire — Cleat Tread	2
124	932017-4	Cotter Pin ⅝ x ½	1	171	2723	Tube	2
125	4834	Street Elbow ¼ NPTF	2	172	4875	Steering Wheel	1
126	2729	Ass'y. Hose — Hydraulic	2	173	2708	Grommet	1
127	1747	Ass'y. Switch — Ignition	1	174	2897	Insert	1
128	4882	Nut — Hex ⅝-32 Special	1	175	937014	Key #9 Woodruff	1
129	4881	Lockwasher ⅝ Dia. Thin	1	176	908031-6	Bolt — Nylok ⅝-16 x ⅝	1
130	3668	Key — Ignition	1	177	2844	Washer — Special	1
131	5273	Ass'y. Switch — Headlight	1	178	2727	Frame — Seat	1
132	1751	Ass'y. Switch — Starter	1	179	908021-4	Bolt — Hex ⅝-18 x 1½	4
133	2846	Bolt Rd. Hd. ¼-20 x ¾	2	180	915112-6	Nut — Nylok ⅝-18	4
134	915111-6	Nut — Nylok ¼-20	4	181	2818	Plug — Button — Square	2
135	2775	Ass'y. Tail Light (Complete)	1	182	2787	Cushion — Seat	1
136	2883	Bulb — Tail Light	1	183	2788	Cushion — Back	1
137	2884	Nut Hex 1-27 Thin	1	184	2796	Pad — Foot Rest R.H.	1
138	2885	Lockwasher 1" Dia. Thin	1	185	2797	Pad — Foot Rest L.H.	1
139	4964	Ass'y. Wire & Contact — Tail Light	1	186	1813	Tool Pin	1
140	4965	Spring — Tail Light	1	187	1591	Belt 47" — Hydraulic	1
141	4966	Lens — Tail Light	1	188	1592	Belt 82" — Drive	1
142	4967	Housing — Tail Light	1	189	1593	Belt — Engine to Gen.	1
143	4125	Ass'y. Headlight (Complete)	2	190	2871	Decal — Control Panel	1
144	4193	Bulb — Headlight	2	191	5163	Decal — 1054	2
145	4126	Lens — Headlight	2	192	4410	Decal — Wheel Horse Emblem	1
146	4189	"O" Ring Gasket — Headlight	2	193	4581	Decal — Steering Wheel Insert	1
147	4192	Body & Socket Ass'y. — Headlight	2	194	3364	Ass'y. Spindle — R.H.	1
148	4194	Wire Ass'y. — Headlight	2	195	5274	Knob — Switch Headlight	1
149	915003-6	Nut — Nylok ⅝-20	2				

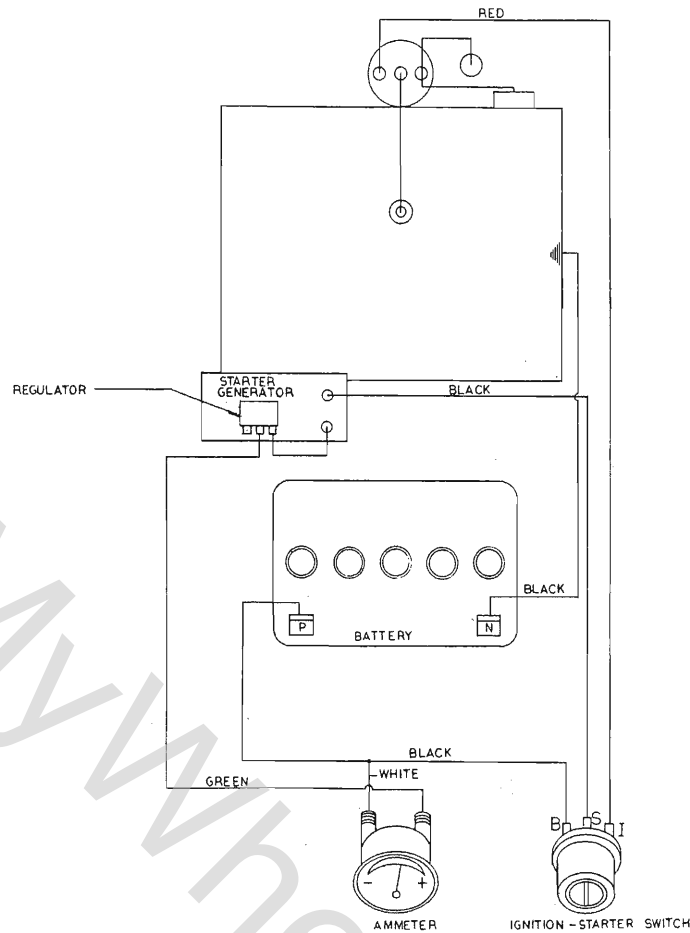


## 1054 HYDRAULIC UNIT PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	5258	Body	1	19	5262	Spring Sleeve	1
2	4831	$\frac{3}{16}$ Relief Ball	1	20	933173	Roll Pin $\frac{5}{32} \times 1\frac{1}{4}$	2
3	4832	Spring — Relief	1	21	4156	Clevis	1
4	4833	Plug	1	22	5263	Bolt — Hex $\frac{5}{16}$ -18 x $1\frac{1}{8}$ Nylok	1
5	5259	Bearing — Needle	1	23	4838	Cover	1
6	1447	Shaft Seal	2	24	5249	Cylinder Ass'y.	1
7	909084-4	Screw $\frac{3}{8}$ -16 x $\frac{3}{4}$	1	25	5264	Screw — Fill. Hd. 10-32 x $\frac{7}{16}$ Sems	6
8	920083-4	Lockwasher $\frac{3}{8}$ Dia.	1	26	4341	Drive Shaft Ass'y.	1
9	1001	Knob	1	27	933169	Roll Pin $\frac{5}{32} \times \frac{7}{8}$	2
10	4153	Handle	1	28	5265	Gear & Bearing Ass'y.	1
11	908817-4	Screw Flat Hd. $\frac{1}{4}$ -20 x $\frac{3}{8}$	2	29	5266	Idler Shaft	1
12	920081-4	Lockwasher — Shake Proof $\frac{1}{4}$ Dia.	2	30	4842	Gasket	1
13	1449	Spirolox Snap Ring	1	31	908203-4	Bolt — Hex $\frac{1}{2}$ -20 x $\frac{1}{2}$	1
14	1455	"O" Ring	1	32	4188	Washer	1
15	933192	Roll Pin $\frac{3}{16} \times 1\frac{1}{2}$	2	33	4157	Reservoir	1
16	5260	Spool Valve	1	34	4187	Stud	1
17	920008-4	Washer	2	35	1453	Washer	1
18	5261	Spring — Return	1	36	915236-4	Nut — Hex $\frac{3}{8}$ -16 Jam	1





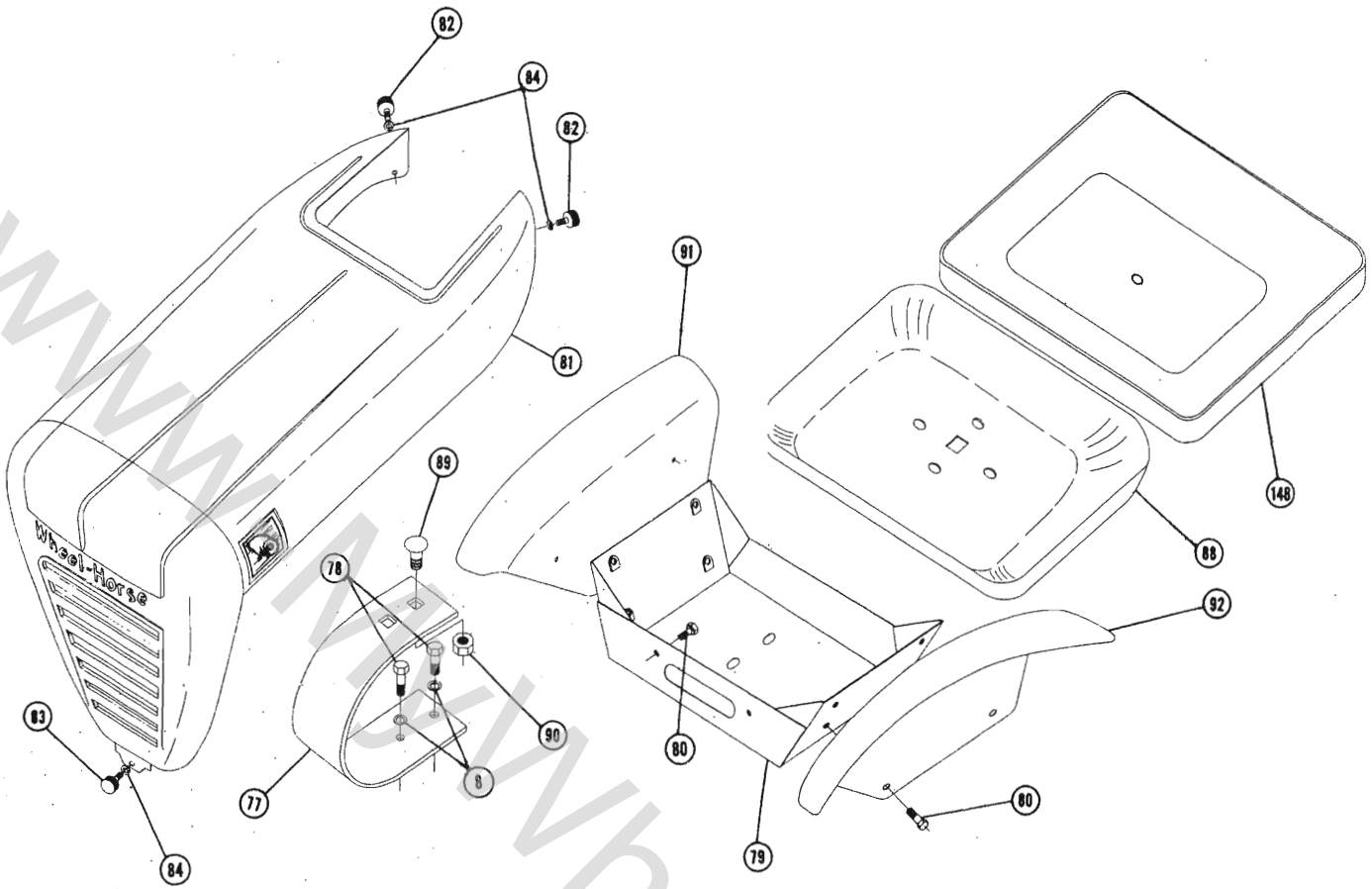
Wiring for 854

**PARTS LIST for MODEL 854 LAWN and GARDEN TRACTOR**

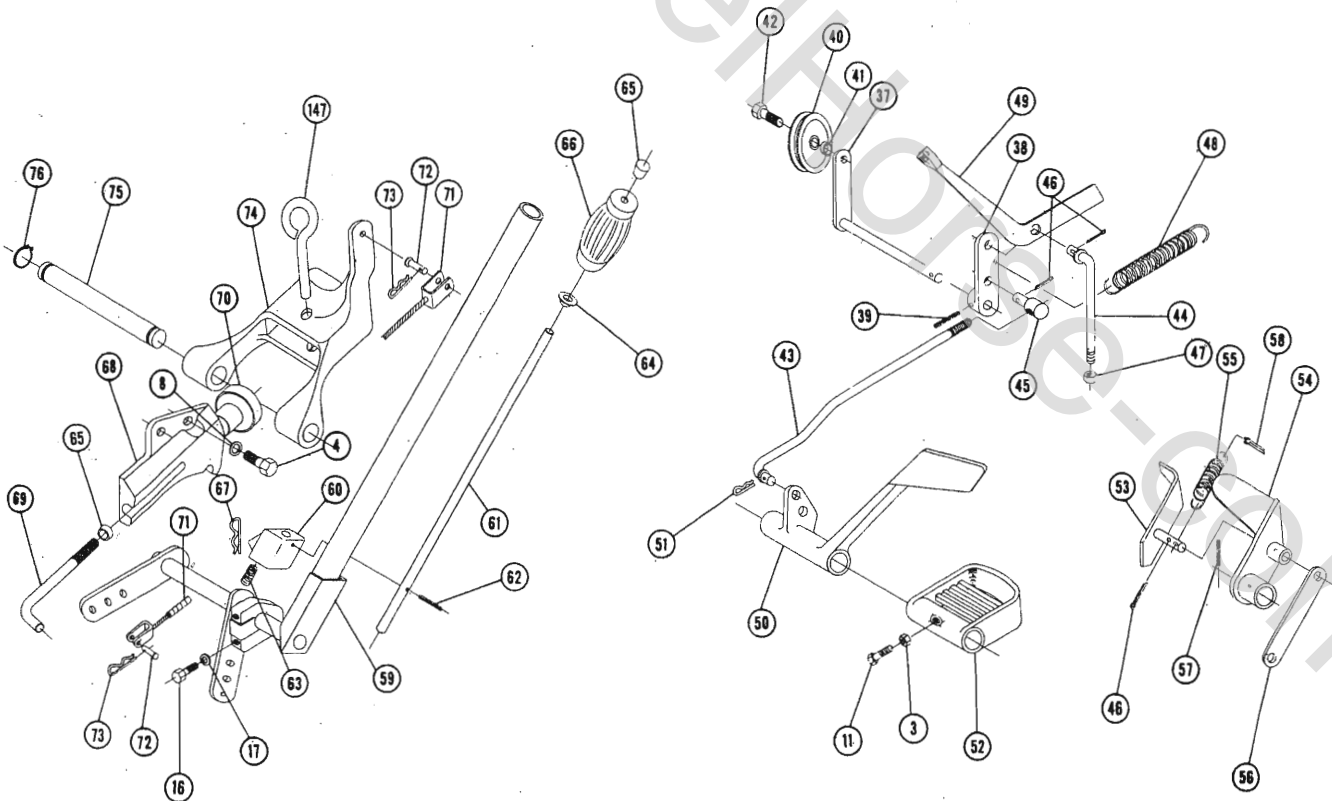
(Except Transmission — see Model 5025 Transmission break down and Parts List.)

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	4990	Ass'y. Frame	1	18	1898	Ass'y. Spindle	2
2	4995	Ass'y. Hood Stand	1	19	1899	Arm - Steering	2
3	915113-6	Nut - Nylok $\frac{3}{8}$ -16	12	20	933216	Roll Pin $\frac{1}{4} \times 1\frac{3}{8}$	3
4	908032-4	Bolt - Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	8	21	933174	Roll Pin $\frac{3}{32} \times 1\frac{3}{8}$	3
5	1611	Pulley	1	22	4412	Support - Steering	1
6	937014	Key #9 Woodruff	1	23	908035-4	Bolt - Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	6
7	909849-6	Set Screw $\frac{1}{4}$ -20 x $\frac{5}{16}$ Nylok	1	24	4971	Shaft - Steering Upper	1
8	920083-4	Lockwasher $\frac{3}{8}$ Dia.	9	25	3917	Gear - Steering Pinion	1
9	4996	Hub - Wheel - 5 Bolt	2	26	933215	Roll Pin $\frac{1}{4} \times 1\frac{1}{4}$	2
10	937022	Key #15 Woodruff	2	27	1085	Collar	1
11	909554-4	Set Screw Square Hd. $\frac{3}{8}$ -16 x 1	4	28	909848-6	Set Screw $\frac{1}{4}$ -20 x $\frac{1}{4}$ Nylok	2
12	1649	Axle - Front	1	29	4959	Ass'y. Steering Shaft - Lower	1
13	1030	Fitting - Grease	3	30	5210	Washer - Shim (.015)	2
14	1481	Fitting - Grease 45°	1	31	1278	Washer - Shim (.050)	2
15	2294	Ass'y. Pin & Plate	1	32	932035-4	Cotter Pin $\frac{3}{16}$ Dia. x $1\frac{1}{4}$	1
16	908015-4	Bolt - Hex $\frac{5}{16}$ -18 x $\frac{1}{2}$	4	33	4413	Sector - Steering	1
17	920082-4	Lockwasher $\frac{5}{16}$ Dia.	4	34	1772	Ass'y. Ball Joint R.H.	1



Fender & Hood Ass'y.



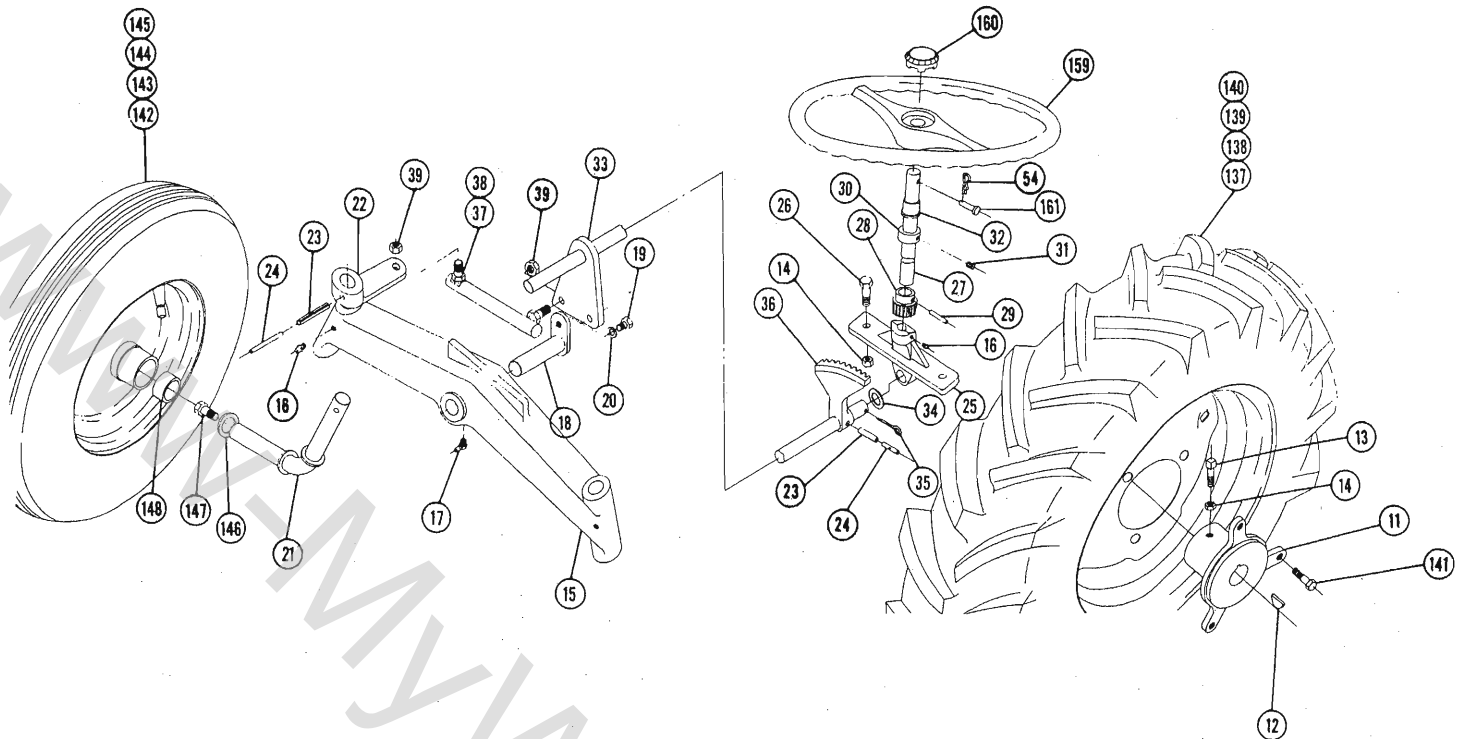
854 Lift & Brake Ass'y.



## PARTS LIST for MODEL 854 LAWN and GARDEN TRACTOR

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
35	1773	Ass'y. Ball Joint L.H.	1	95	915111-6	Nut - Nyllok 1/4-20	8
36	915002-6	Nut - Nyllok 3/8-24	4	96	4958	Clamp - Battery	1
37	3950	Ass'y. Idler Arm & Shaft	1	97	5151	Ass'y. Engine - 8 H.P. Kohler	1
38	4899	Arm - Clutch Rod Pivot	1	98	5222	Elbow 90° (Special)	1
39	933158	Roll Pin 1/8 x 1 1/4	1	99	5223	Nipple 3/8 Pipe x 4	1
40	1623	Pulley - Idler	1	100	5224	Cap 3/8 Pipe	1
41	1536	Bushing	1	101	1744	Muffler	1
42	1363	Bolt - Hex 3/8-16 x 3/8 Special	1	102	3947	Nipple 1" Close Pipe	1
43	2593	Rod - Clutch	1	103	3939	Elbow 1" x 45°	1
44	3935	Rod - Brake	1	104	943366-4	Nipple 1" Pipe x 2	1
45	1861	Stud - Clutch Rod	1	105	1621	Pulley - Engine	1
46	932017-4	Cotter Pin 1/8 x 1	4	106	1349	Key 1/4 x 1/4 x 1 1/2	1
47	915605-4	Nut 3/8-16 Elastic Stop	1	107	5171	Ass'y. Control - Throttle	1
48	5185	Spring - Clutch	1	108	5170	Ass'y. Control - Choke	1
49	3069	Ass'y. Lever & Knob - Brake	1	109	1364	Nut 3/8-18 Round	2
50	2267	Pedal - Clutch	1	110	920127-4	Lockwasher 3/8 Shakeproof	2
51	S-52-4	Hairpin Cotter	1	111	1277	Clip	2
52	4421	Footrest	2	112	909000-4	Bolt - Rd. Head #8-32 x 1/2	1
53	4246	Ass'y. Trip Lever	1	113	915562-4	Nut - Hex #8-32	1
54	4239	Pedal - Attachment - Clutch	1	114	920078-4	Lockwasher #8	1
55	1014	Spring	1	115	2271	Ass'y. Fuel Tank	1
56	3933	Link	1	116	910057-4	Bolt 1/4-20 x 5/8 Fil. Hd.	4
57	933188	Roll Pin 3/16 x 1	1	117	1786	Ass'y. Fuel Strainer	1
58	932034-4	Cotter Pin 3/16 x 1 1/4	1	118	1192	Nipple - Fuel Tank	1
59	2266	Ass'y. Lift Lever	1	119	1217	Elbow - 90° Nylon	1
60	4438	Plunger	1	120	1796	Hose - Fuel Line	1
61	4439	Rod	1	121	4256	Clip - Fuel Line	1
62	933168	Roll Pin 5/32 x 1 3/16	1	122	950141-4	Clamp 3/8 Dia. Corbin	1
63	3624	Spring	1	123	3998	Cap - Fuel Tank	1
64	3578	Guide - Plunger Rod	1	124	4988	Ass'y. Switch - Ignition	1
65	3680	Cap - Plunger Rod	2	125	4882	Nut - Hex 5/8-32 Special	1
66	1000	Grip - Handle	1	126	4881	Lockwasher 3/8	1
67	S-52-6	Hairpin	1	127	4989	Key	1
68	2274	Quadrant	1	128	3653	Battery	1
69	2179	Rod - Height Control	1	129	4992	Wiring Harness	1
70	5280	Knob	1	130	908002-4	Bolt - Hex 1/4-20 x 3/8	2
71	3931	Ass'y. Cable - Lift	1	131	1745	Ammeter	1
72	932120	Pin - Clevis 1/4 Dia.	2	132	1667	Ass'y. Wheel, Tire & Tube - Rear	2
73	S-52-3	Hairpin Cotter	2	133	1700	Wheel	2
74	3926	Hitch	1	134	1662	Tire - Lawn Tread	2
75	3988	Pin - Hitch Shaft	1	135	1654	Tube	2
76	S-50-75	Snap Ring 3/4 Shaft	2	136	1004	Lug Bolt - Wheel 3/8-20	10
77	3537	Spring - Seat	1	137	4997	Ass'y. Wheel, Tire & Tube - Front	2
78	908034-4	Bolt - Hex 3/8-16 x 1	2	138	4998	Wheel	2
79	4892	Ass'y. Tool Box	1	139	4999	Ball Bearing	4
80	1385	Screw - Sems 1/4-20 x 1/2	16	140	1656	Tire	2
81	4986	Ass'y. Hood - Complete	1	141	1657	Tube	2
82	1345	Thumb Screw 1/4-20 x 3/8	2	142	2844	Washer	2
83	1346	Thumb Screw 1/4-20 x 3/4	1	143	908033-6	Bolt 3/8-16 x 3/8 Nyllok	2
84	920081-4	Lockwasher 1/4 Dia.	3	144	2816	Hub Cap	2
85	4993	Ass'y. Belt Guard	1	145	4983	Steering Wheel	1
86	909082-4	Screw - Rd. Hd. 3/8-16 x 1/2	1	146	2897	Insert	1
87	4419	Shield	1	147	1813	Tool Pin	1
88	3973	Seat	1	148	3978	Cushion	1
89	900113-4	Bolt - Carriage 1/2-13 x 1 1/4	1	149	S-56-6	Wrench 1/8 Hex Allen	1
90	915115-6	Nut - Nyllok 1/2-13	1	150	1576	"V" Belt - Drive	1
91	4972	Fender R.H.	1	151	4410	Decal - Wheel Horse Emblem	2
92	4973	Fender L.H.	1	152	5221	Decal - Instrument Panel	1
93	4953	Ass'y. Battery Box	1	153	5146	Decal - 854	1
94	915112-6	Nut - Nyllok 3/8-18	2				



Steering Ass'y. and Rear Wheel Ass'y.

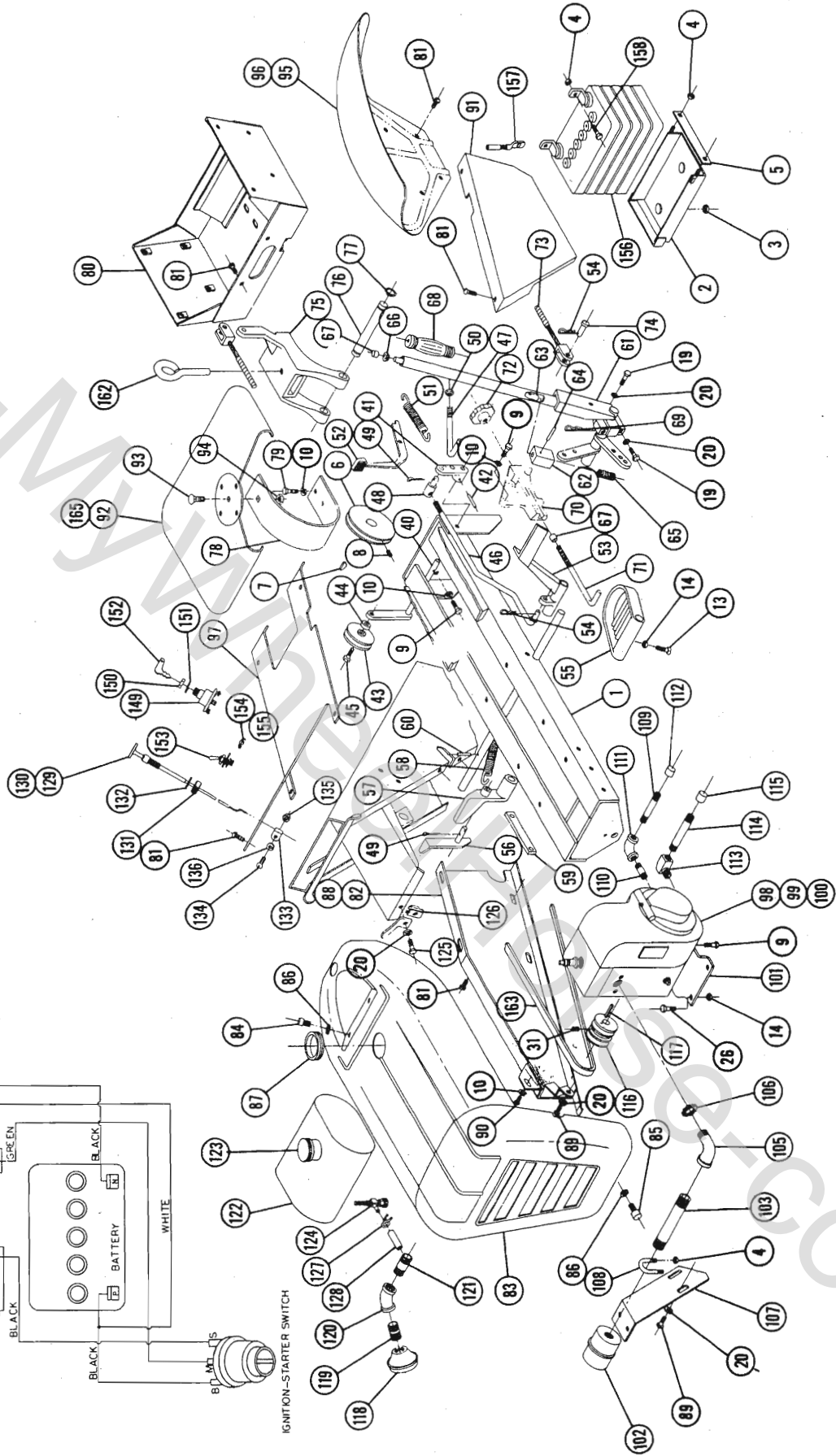
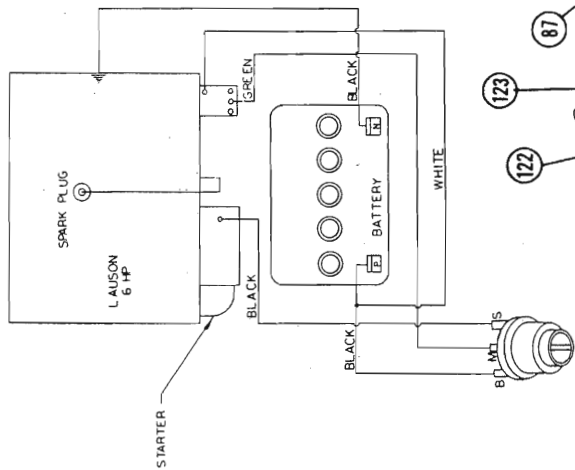
## PARTS LIST for MODELS 604, 654 and 704 LAWN and GARDEN TRACTORS

(Except Transmission — see Model 5046 Transmission break down and Parts List.)

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	4945	Ass'y. Frame	1	26	908035-4	Bolt — Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	6
2	4953	Ass'y. Battery Box	1	27	4971	Shaft — Steering Upper	1
3	915112-6	Nut — Nylock $\frac{3}{8}$ -18	2	28	3917	Gear — Steering Pinion	1
4	915111-6	Nut Nylock $\frac{1}{4}$ -20	6	29	933215	Roll — Pin $\frac{1}{4}$ x $1\frac{1}{4}$	1
5	4958	Clamp — Battery	1	30	1085	Collar	1
6	1611	Pulley	1	31	909848-6	Set Screw $\frac{1}{4}$ -20 x $\frac{1}{4}$ Nylock	2
7	937014	Key #9 Woodruff	1	32	1539	Bushing — Nylon	1
8	909849-6	Set Screw $\frac{1}{4}$ -20 x $\frac{5}{16}$ Nylock	1	33	4959	Ass'y. Steering Shaft — Lower	1
9	908032-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	10	34	1278	Washer — Shim	2
10	920083-4	Lockwasher $\frac{3}{8}$ Dia.	9	35	932034-4	Cotter Pin $\frac{3}{16}$ Dia. x 1	1
11	3574	Hub — Wheel	2	36	4413	Sector — Steering	1
12	937022	Key #15 Woodruff	2	37	1772	Ass'y. Ball Joint R.H.	1
13	909554-4	Set Screw Sq. Hd. $\frac{3}{8}$ -16 x 1	4	38	1773	Ass'y. Ball Joint L.H.	1
14	915113-6	Nut Nylock $\frac{3}{8}$ -16	10	39	915002-6	Nut — Nylock $\frac{3}{8}$ -24	4
15	1649	Axle — Front	1	40	3950	Ass'y. Idler Arm & Shaft	1
16	1030	Fitting — Grease	5	41	4899	Arm — Clutch Rod Pivot	1
17	1481	Fitting — Grease 45°	1	42	933158	Roll Pin $\frac{1}{8}$ x $1\frac{1}{4}$	1
18	2294	Ass'y. Pin & Plate	1	43	1623	Pulley — Idler	1
19	908015-4	Bolt — Hex $\frac{5}{16}$ -18 x $\frac{1}{2}$	4	44	1536	Bushing	1
20	920082-4	Lockwasher $\frac{3}{16}$ Dia.	8	45	1363	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{7}{8}$ Special	1
21	1898	Ass'y. Spindle	2	46	2593	Rod — Clutch	1
22	1899	Arm — Steering	2	47	3935	Rod — Brake	1
23	933216	Roll — Pin $\frac{1}{4}$ x $1\frac{3}{8}$	3	48	5162	Stud — Clutch Rod	1
24	933174	Roll — Pin $\frac{5}{32}$ x $1\frac{3}{8}$	3	49	932017-4	Cotter Pin $\frac{1}{8}$ x 1	5
25	4412	Support — Steering	1	50	915605-4	Nut $\frac{3}{8}$ -16 Elastic Stop	1

Wiring for 654



604, 654, 704 Main Frame Ass'y.

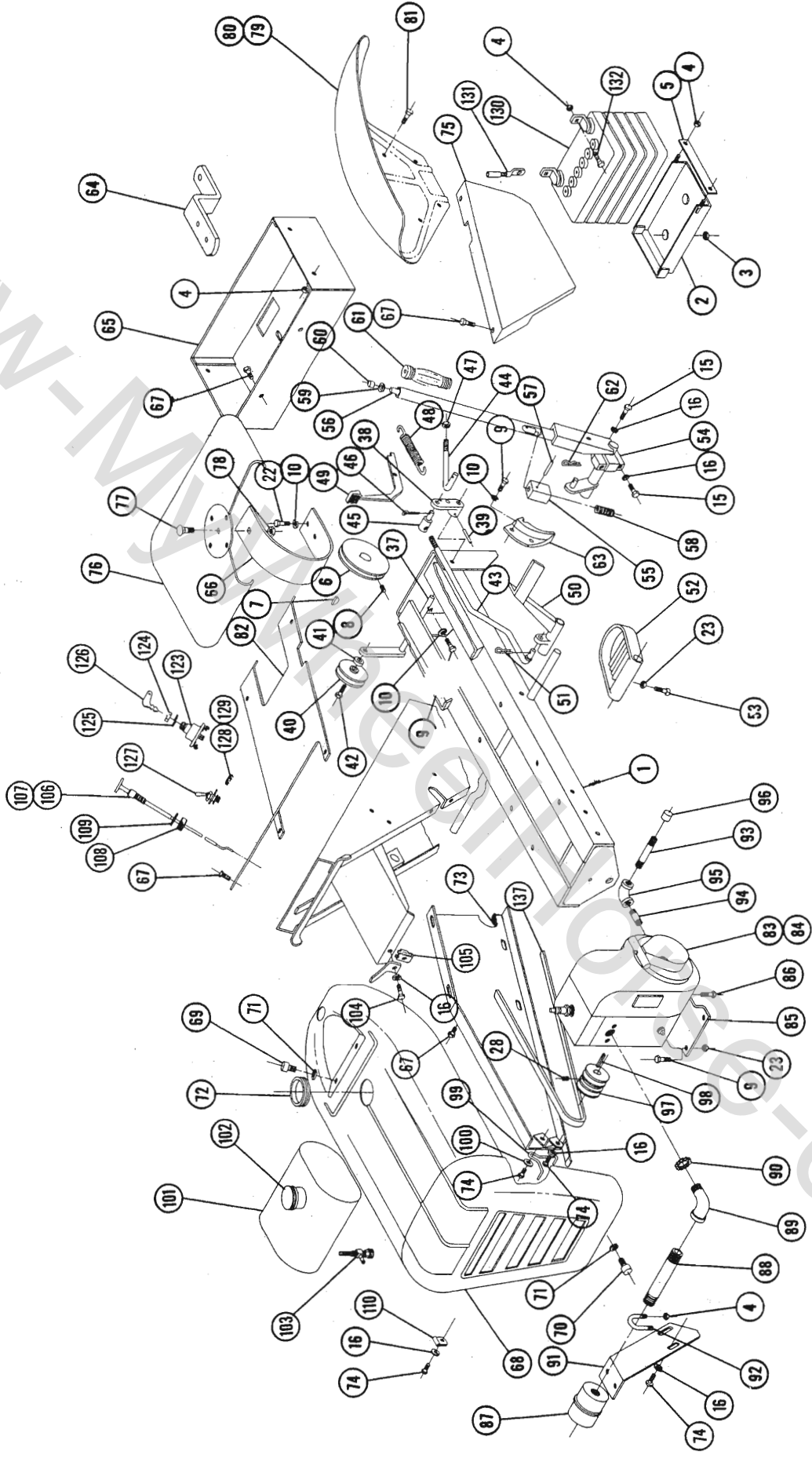
# PARTS LIST for MODELS 604, 654 and 704 LAWN and GARDEN TRACTORS

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
51	1129	Spring — Clutch	1	111	4216	Elbow — ¼ Pipe x 90° (604-654)	1
52	4417	Ass'y. Lever & Knob — Brake	1	112	4217	Cap ¼ Pipe (604-654)	1
53	2267	Pedal — Clutch	1	113	5222	Elbow — 90° Special (704)	1
54	S-52-3	Hairpin — Cotter	4	114	5223	Nipple ⅜ Pipe x 4 — Special (704)	1
55	4421	Footrest	2	115	5224	Cap — ⅜ Pipe (704)	1
56	4246	Ass'y. Trip Lever (654-704)	1	116	1621	Pulley — Engine	1
57	4239	Pedal — Attach. Clutch (654-704)	1	117	1349	Key ¼ x ¼ x 1½	1
58	1014	Spring (654-704)	1	118	1744	Muffler (704)	1
59	3933	Link (654-704)	1	119	3947	Nipple 1" Close Pipe (704)	1
60	933188	Roll Pin ⅜ x 1 (654-704)	1	120	3939	Elbow 1" x 45° (704)	1
61	2266	Ass'y. Lift Lever	1	121	943366-4	Nipple 1" Pipe x 2" (704)	1
62	4438	Plunger	1	122	2676	Ass'y. Fuel Tank	1
63	4439	Rod	1	123	5186	Cap — Fuel Tank	1
64	933168	Roll Pin ⅜ x 1⅜	1	124	4941	Valve — Fuel Shut Off & Filter	1
65	3624	Spring	1	125	908019-4	Bolt — Hex ⅝-18 x 1	1
66	3578	Guide — Rod	1	126	4897	Speed Nut ⅜-18	1
67	3680	Cap	2	127	950141-4	Clamp ⅜ Dia. Corbin (704)	1
68	1000	Grip — Handle	1	128	1796	Fuel Line (704)	1
69	S-52-6	Hairpin — Cotter	1	129	5171	Ass'y. Control — Throttle	1
70	2274	Quadrant	1	130	5170	Ass'y. Control — Choke	1
71	2179	Rod — Height Control	1	131	1364	Nut — Round ⅜-18	2
72	2196	Knob — Height Control	1	132	920127-4	Lockwasher ⅜ Dia. (Ext. Tooth)	2
73	3931	Ass'y. Cable — Lift	1	133	2879	Clip (704)	2
74	932120-4	Clevis ¼ Dia.	2	134	909000-4	Bolt — Rd. Hd. #8-32 x ½ (704)	2
75	3926	Hitch	1	135	915562-4	Nut — Hex #8-32 (704)	2
76	3988	Pin — Hitch Shaft	1	136	920078-4	Lockwasher #8 (704)	2
77	S-50-75	Snap Ring ¾ Shaft	2	137	1667	Ass'y. Wheel Tire & Tube — Rear	2
78	3537	Spring — Seat	1	138	1700	Wheel	2
79	908034-4	Bolt — Hex ⅜-16 x 1	2	139	1662	Tire	2
80	4892	Ass'y. Tool Box	1	140	1654	Tube	2
81	1385	Screw — Sems ¼-20 x ½	18	141	1004	Lug — Bolt	6
82	4993	Ass'y. Belt Guard (704)	1	142	1709	Ass'y. Wheel, Tire & Tube — Front	2
83	4975	Ass'y. Hood — Complete	1	143	1712	Wheel — With Two 1521 Bearings	2
84	1345	Thumb — Screw ¼-20 x ⅜	2	144	1656	Tire	2
85	1346	Thumb — Screw ¼-20 x ¾	1	145	1657	Tube	2
86	920081-4	Lockwasher ¼ Dia.	3	146	2844	Washer	2
87	2767	Grommet 2½ I.D. /	1	147	908033-6	Bolt Nylock ⅜-16 x ⅜	2
88	4962	Ass'y. Belt Guard (604-654)	1	148	2816	Hubcap	2
89	1432	Screw — Rd. Hd. ⅝-24 x ½	3	149	4987	Ass'y. Switch — Ignition (654)	1
90	909082-4	Screw Rd. Hd. ⅜-16 x ½	1	150	4882	Nut — Hex ⅜-32 — Special (654)	1
91	4419	Shield	1	151	4881	Lockwasher ⅜ Dia. — Special (654)	1
92	3973	Seat	1	152	3668	Key — Ignition (654)	1
93	900113-4	Bolt — Carriage ½-13 x 1¼	1	153	3279	Ass'y. Switch (604-704)	1
94	915115-6	Nut — Nylock ½-13	1	154	4856	Plug Button — .500 Hole (654)	1
95	4972	Fender R.H.	1	155	3757	Plug Button — .625 Hole (604-704)	1
96	4973	Fender L.H.	1	156	3653	Battery	1
97	4895	Ass'y. Cover	1	157	4979	Wiring Harness	1
98	4980	Ass'y. Engine — 6 H.P. (604)	1	158	908002-4	Bolt — Hex ¼-20 x ⅜ (654)	2
99	4981	Ass'y. Engine — 6 H.P. (654)	1	159	4983	Steering Wheel	1
100	5150	Ass'y. Engine — 7 H.P. (704)	1	160	2897	Insert	1
101	4416	Base — Engine (604-654)	1	161	932948-4	Pin — Clevis	1
102	1739	Muffler (604-654)	1	162	1813	Tool Pin	1
103	1754	Nipple ¾ Pipe x 5½ (604-654)	1	163	1576	"V" Belt	1
104	4985	Decal — Instrument Panel	1	164	S-56-6	Wrench Allen ⅛ Hex	1
105	1755	Elbow ¾ Pipe x 90° Street El (604-654)	1	165	3978	Cushion (654-704)	1
106	1756	Nut Lock ¾ Pipe (604-654)	1	166	5147	Decal (704)	1
107	2297	Brace — Exhaust (604-654)	1	167	4969	Decal (654)	1
108	1240	"U" Bolt (604-654)	1	168	4970	Decal (604)	1
109	4943	Nipple — ¼ Pipe x 4 (604-654)	1	169	4410	Decal — Wheel Horse Emblem	2
110	4218	Nipple — ¼ Pipe x 1¼ (604-654)	1	170	4984	Decal — Hood Panel	1







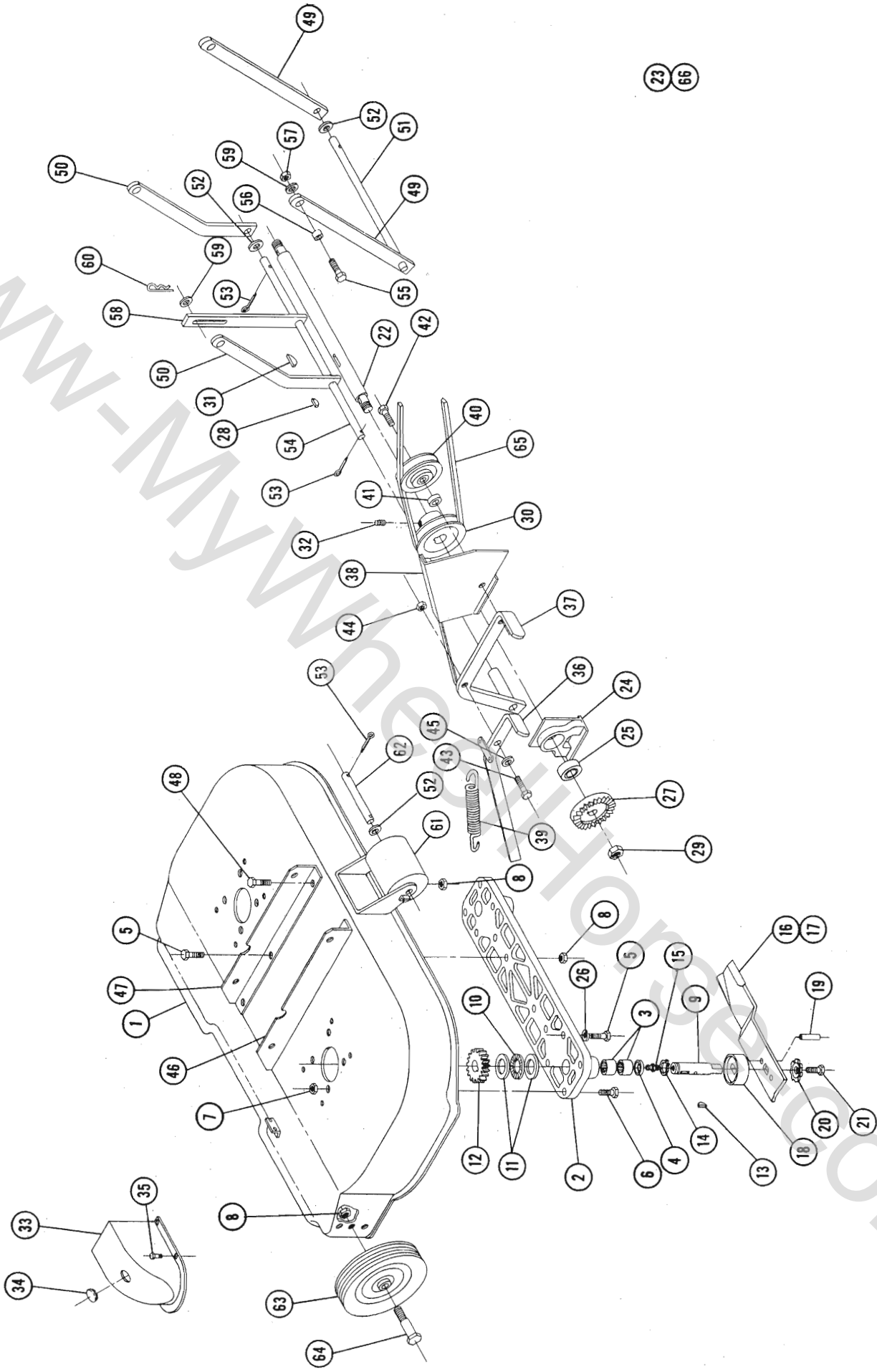
34E - 34R Main Frame Ass'y. and Fender, Hood Ass'y.

## 34E - 34R LAWN RANGER TRACTOR PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	5215	Ass'y. Frame	1	73	4962	Ass'y. Belt Guard	1
2	4953	Ass'y. Battery Box	1	74	1432	Screw Rd. Hd. $\frac{5}{16}$ -24 x $\frac{1}{2}$	5
3	915112-6	Nut — Nylock $\frac{3}{8}$ -18	2	75	4419	Shield	1
4	915111-6	Nut — Nylock $\frac{1}{4}$ -20	10	76	3973	Seat	1
5	4958	Clamp — Battery	1	77	900113-4	Bolt — Carriage $\frac{1}{2}$ -13 x $1\frac{1}{4}$	1
6	1611	Pulley	1	78	915115-6	Nut Nylock $\frac{1}{2}$ -13	1
7	937014	Key #9 Woodruff	1	79	3586	Fender R.H.	1
8	909849-6	Set Screw $\frac{1}{4}$ -20 x $\frac{5}{16}$ Nylock	1	80	3585	Fender L.H.	1
9	908032-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	10	81	908001-4	Screw — Hex Hd. $\frac{1}{4}$ -20 x $\frac{1}{2}$	4
10	920083-4	Lockwasher $\frac{3}{8}$ Dia.	8	82	4895	Ass'y. Cover	1
11	1649	Axle — Front	1	83	4980	Ass'y. Engine 6 H.P. Lauson (Recoil)	1
12	1030	Fitting — Grease	3	84	4981	Ass'y. Engine 6 H.P. Lauson (Electric)	1
13	1481	Fitting — Grease 45°	1	85	4416	Base — Engine	1
14	2294	Ass'y. Pin & Plate	1	86	908017-4	Bolt — Hex $\frac{3}{16}$ -18 x $\frac{3}{4}$	4
15	908015-4	Bolt — Hex $\frac{3}{16}$ -18 x $\frac{1}{2}$	4	87	1739	Muffler	1
16	920082-4	Lockwasher $\frac{3}{16}$ Dia.	9	88	1754	Nipple $\frac{3}{4}$ Pipe x $5\frac{1}{2}$	1
17	4978	Ass'y. Spindle	2	89	1755	Elbow $\frac{3}{4}$ Pipe x 90° Street Elbow	1
18	1899	Arm — Steering	2	90	1756	Nut — Lock $\frac{3}{4}$ Pipe	1
19	933216	Roll Pin $\frac{1}{4}$ x $1\frac{1}{8}$	3	91	2297	Brace — Exhaust	1
20	933174	Roll Pin $\frac{3}{32}$ x $1\frac{1}{8}$	3	92	1240	"U" Bolt	1
21	4412	Support — Steering	1	93	4943	Nipple $\frac{1}{4}$ Pipe x 4	1
22	908035-4	Bolt — Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	2	94	4218	Nipple $\frac{1}{4}$ Pipe x $1\frac{1}{4}$	1
23	915113-6	Nut — Nylock $\frac{3}{8}$ -16	10	95	4216	Elbow $\frac{1}{4}$ Pipe x 90°	1
24	4971	Shaft — Steering Upper	1	96	4217	Cap $\frac{1}{4}$ Pipe	1
25	3917	Gear — Steering Pinion	1	97	1621	Pulley — Engine	1
26	933215	Roll Pin $\frac{1}{4}$ x $1\frac{1}{4}$	1	98	1349	Key $\frac{1}{4}$ x $\frac{1}{4}$ x $1\frac{1}{2}$	1
27	1085	Collar	1	99	4930	Belt Stop	1
28	909848-6	Set Screw $\frac{1}{4}$ -20 x $\frac{1}{4}$ Nylock	2	100	920008-4	Washer $\frac{5}{16}$ SAE	1
29	1539	Bushing — Nylon	1	101	2676	Ass'y. Fuel Tank	1
30	4959	Ass'y. Steering Shaft — Lower	1	102	5186	Cap — Fuel Tank	1
31	1278	Washer — Shim	2	103	4941	Valve — Fuel Shut Off	1
32	932035-4	Cotter Pin $\frac{3}{16}$ Dia. x $1\frac{1}{4}$	1	104	908020-4	Bolt — Hex $\frac{5}{16}$ -18 x $1\frac{1}{4}$	1
33	4413	Sector — Steering	1	105	4897	Speed Nut $\frac{3}{16}$ -18	1
34	1772	Ass'y. Ball Joint R.H.	1	106	5171	Ass'y. Control — Throttle	1
35	1773	Ass'y. Ball Joint L.H.	1	107	5170	Ass'y. Control — Choke	1
36	915002-6	Nut — Nylock $\frac{3}{8}$ -24	4	108	1364	Nut — Round $\frac{3}{16}$ -18	2
37	3950	Ass'y. Idler Arm & Shaft	1	109	920127-4	Lockwasher $\frac{3}{16}$ (External Tooth)	2
38	3979	Arm — Clutch Rod Pivot	1	110	4256	Clip	1
39	933158	Roll Pin $\frac{1}{8}$ x $1\frac{1}{4}$	1	111	1664	Ass'y. Wheel, Tire & Tube — Rear	2
40	1623	Pulley — Idler	1	112	1670	Wheel	2
41	1536	Bushing	1	113	1668	Tire	2
42	1363	Bolt Hex $\frac{3}{8}$ -16 x $\frac{7}{8}$ Special	1	114	1669	Tube	2
43	2593	Rod — Clutch	1	115	4944	Plug — Wheel	2
44	3935	Rod	1	116	3080	Ass'y. Wheel, Tire & Tube — Front	2
45	1861	Stud — Clutch Rod	1	117	3081	Wheel	2
46	932017-4	Cotter Pin $\frac{1}{8}$ x 1	2	118	3082	Tire	2
47	915605-4	Nut $\frac{3}{8}$ -16 Elastic Stop	1	119	3083	Tube	2
48	5185	Spring — Clutch	1	120	2844	Washer	2
49	4417	Ass'y. Lever & Knob — Brake	1	121	908033-6	Bolt — Nylock $\frac{3}{8}$ -16 x $\frac{7}{8}$	2
50	2267	Pedal — Clutch	1	122	2816	Hubcap	2
51	S-52-4	Hairpin — Cotter	1	123	4987	Ass'y. Switch — Ignition	1
52	4421	Footrest	2	124	4882	Nut — Hex $\frac{5}{8}$ -32 (Special)	1
53	909554-4	Set Screw Square Hd. $\frac{3}{8}$ -16 x 1	4	125	4881	Lockwasher $\frac{3}{8}$ Dia. (Special)	1
54	4976	Ass'y. Lift Lever	1	126	4989	Key — Ignition	1
55	4438	Plunger	1	127	3279	Ass'y. Switch (Ignition Cut Off)	1
56	4910	Rod	1	128	4856	Plug Button .500 Hole	1
57	933168	Roll Pin $\frac{3}{32}$ x $1\frac{1}{8}$	1	129	3757	Plug Button .625 Hole	1
58	3624	Spring	1	130	3653	Battery	1
59	3578	Guide — Rod	1	131	4979	Wiring Harness	1
60	3680	Cap	1	132	908002-4	Bolt — Hex $\frac{1}{4}$ -20 x $\frac{5}{8}$	2
61	1000	Grip — Handle	1	133	4983	Steering Wheel	1
62	S-52-6	Hairpin — Cotter	1	134	2897	Insert	1
63	4222	Quadrant	1	135	932948-4	Pin — Clevis	1
64	4904	Hitch	1	136	S-52-3	Hairpin — Cotter	1
65	3587	Tool Box	1	137	1576	"V" Belt	1
66	3537	Spring — Seat	1	138	S-56-6	Wrench — Allen $\frac{1}{8}$ Hex.	1
67	1385	Screw — Sems $\frac{1}{4}$ -20 x $\frac{1}{2}$	12	139	3978	Cushion — Seat	1
68	4975	Ass'y. Hood — Complete	1	140	1483	Decal — Lawn Ranger	1
69	1345	Thumb Screw $\frac{1}{4}$ -20 x $\frac{3}{8}$	2	141	4410	Decal — Wheel Horse Emblem	2
70	1346	Thumb Screw $\frac{1}{4}$ -20 x $\frac{3}{4}$	1	142	4984	Decal — Hood Panel	1
71	920081-4	Lockwasher $\frac{1}{4}$ Dia.	3	143	4985	Decal — Instrument Panel	1
72	2767	Grommet $2\frac{1}{2}$ Dia.	1	144	937022	Key No. 15 Woodruff	2

23  
66

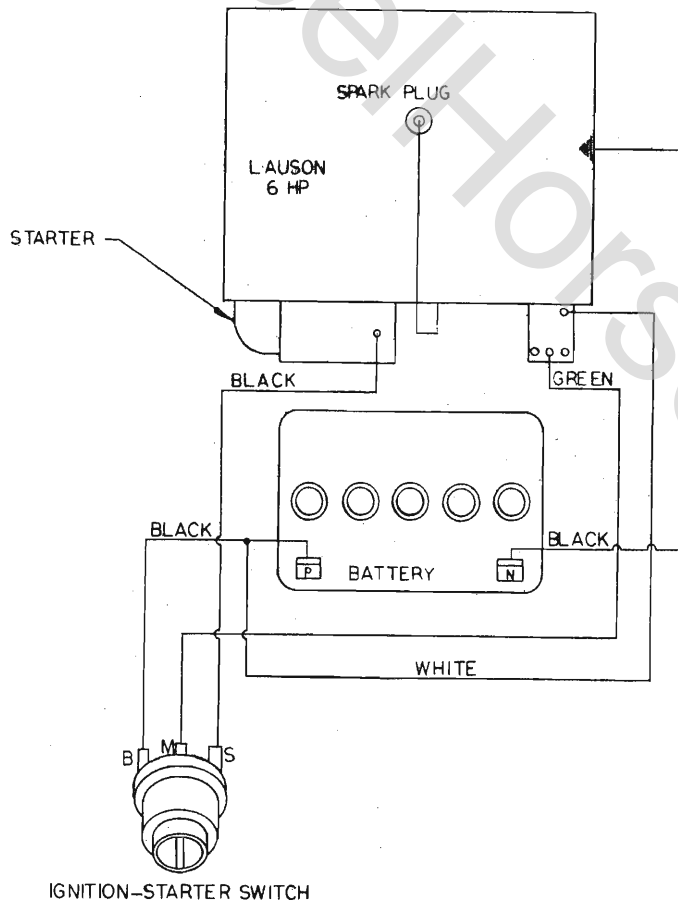


34E - 34R 32" MOWER ASSEMBLY

## 32" Mower (Lawn Ranger) Parts List

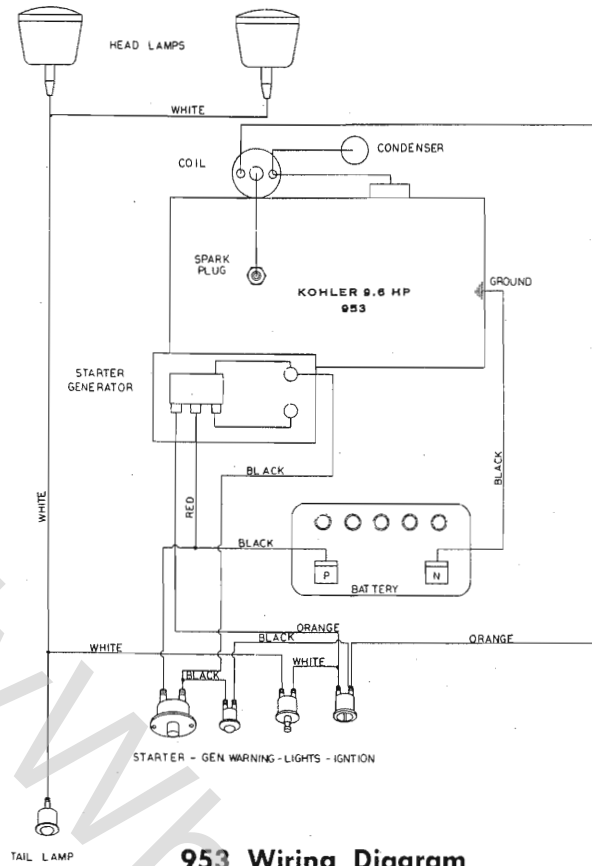
When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	5232	Ass'y Deck	1	34	3757	Plug Button	2
2	5233	Twin Housing	1	35	1304	Screw — Hex #8-32 Self Tap	8
3	1508	Bearing	4	36	4924	Ass'y Latch — Clutch Pedal	1
4	1303	Seal-Oil	2	37	4927	Ass'y Clutch Pedal	1
5	908035-4	Bolt — Hex $\frac{3}{8}$ -16 x $1\frac{1}{4}$	6	38	4931	Ass'y Shield	1
6	908017-4	Bolt — Hex $\frac{5}{16}$ -18 x $\frac{3}{4}$	4	39	1486	Spring — Clutch	2
7	915112-6	Nut — Nylock $\frac{3}{16}$ -18	4	40	1623	Pulley — Idler	1
8	915113-6	Nut — Nylock $\frac{3}{8}$ -16	8	41	1536	Bushing — Idler	1
9	3724	Shaft — Spindle	2	42	908033-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{7}{8}$	1
10	1534	Bearing — Thrust	2	43	908005-4	Bolt — Hex $\frac{1}{4}$ -20	1
11	1535	Washer — Thrust	4	44	915111-6	Nut — Nylock $\frac{1}{4}$ -20	1
12	3131	Gear — Spur	2	45	920007-4	Washer $\frac{1}{4}$ SAE	1
13	937084	Key #5 Woodruff	2	46	5242	Bracket — Mounting R.H.	1
14	S-50-75	Snap-Ring $\frac{3}{4}$ Shaft	2	47	5243	Bracket — Mounting L.H.	1
15	1030	Fitting — Grease	2	48	908032-4	Bolt — Hex $\frac{3}{8}$ -16 x $\frac{3}{4}$	4
16	3718	Blade R.H. 16"	1	49	4940	Link — Front	2
17	3719	Blade L.H. 16"	1	50	4939	Link — Rear	2
18	3716	Cup	2	51	4938	Rod — Front Link Pivot	1
19	933211	Roll Pin $\frac{1}{4}$ x $\frac{3}{4}$	4	52	920011-4	Washer $\frac{1}{2}$ Dia. SAE	7
20	1336	Washer — Dome	2	53	932017-4	Cotter Pin $\frac{1}{8}$ x 1	7
21	908033-6	Bolt — Nylock $\frac{3}{8}$ -16 x $\frac{7}{8}$	2	54	4936	Rod — Rear Link Pivot	1
22	5234	Shaft — Cross	1	55	908034-4	Bolt — Hex $\frac{3}{8}$ -16 x 1	4
23	4570	Decal — Caution	2	56	4937	Spacer	4
24	3138	Housing — Bearing	2	57	915605-4	Nut — Elastic Stop $\frac{3}{8}$ -16	4
25	1515	Bearing	2	58	5244	Bar — Lift	1
26	920083-4	Lockwasher $\frac{3}{8}$ Dia.	4	59	920009-4	Washer $\frac{3}{8}$ SAE	5
27	3130	Gear	2	60	S-52-4	Hairpin Cotter	1
28	937009	Key #5 Woodruff	2	61	5240	Roller	1
29	915639-4	Nut $\frac{3}{8}$ -18 Elastic Stop	2	62	5241	Shaft	1
30	1613	Pulley	1	63	2877	Wheel	2
31	937014	Key #9 Woodruff	1	64	4177	Bolt — Shoulder	2
32	909862-6	Set Screw $\frac{3}{16}$ -18 x $\frac{3}{16}$ Nylock	1	65	1555	"V" Belt 44"	1
33	3141	Cover — Gear	2	66	3710	Decal — Grease	2

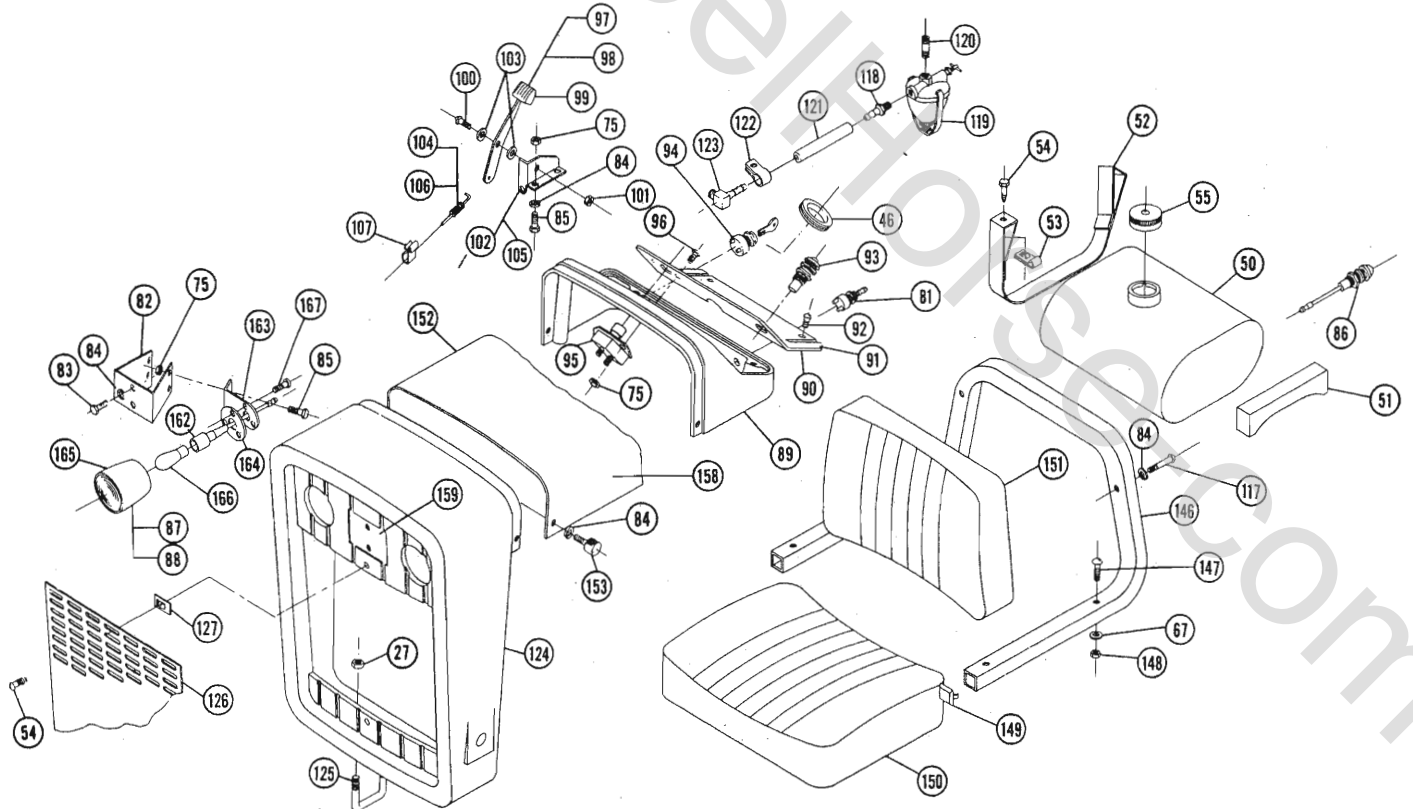


**Wiring for 34E**

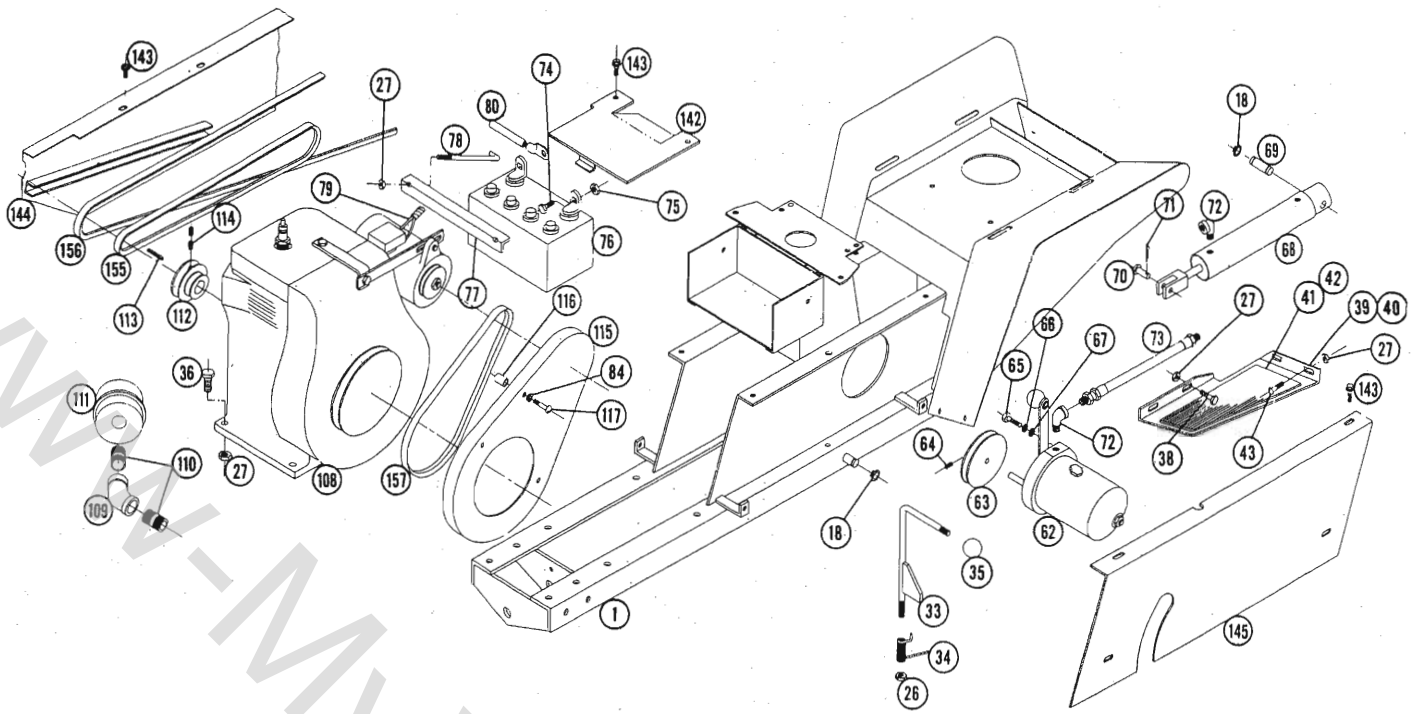
IGNITION-STARTER SWITCH



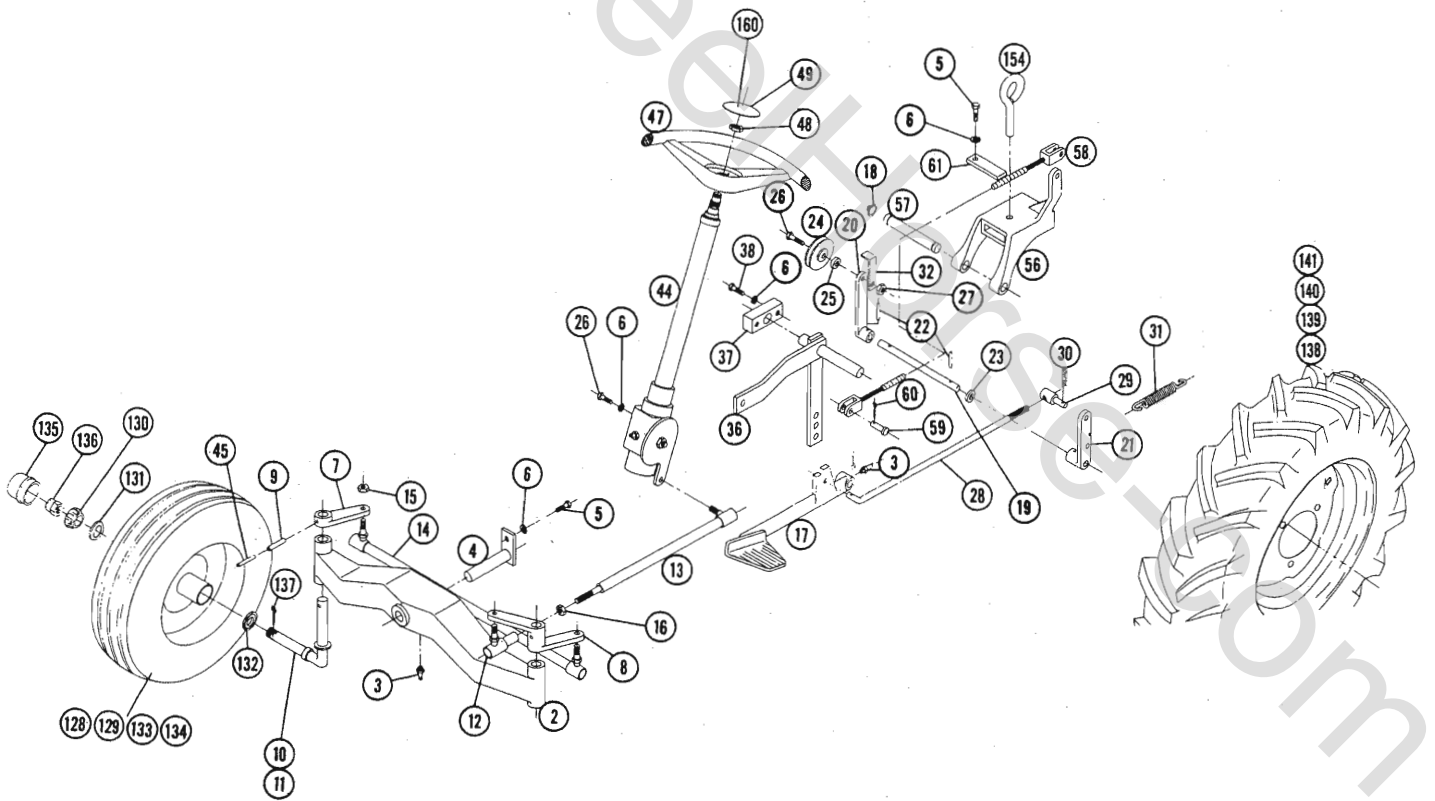
**953 Wiring Diagram**



**953 Body & Seat Ass'y.**



**Main Frame Ass'y.**



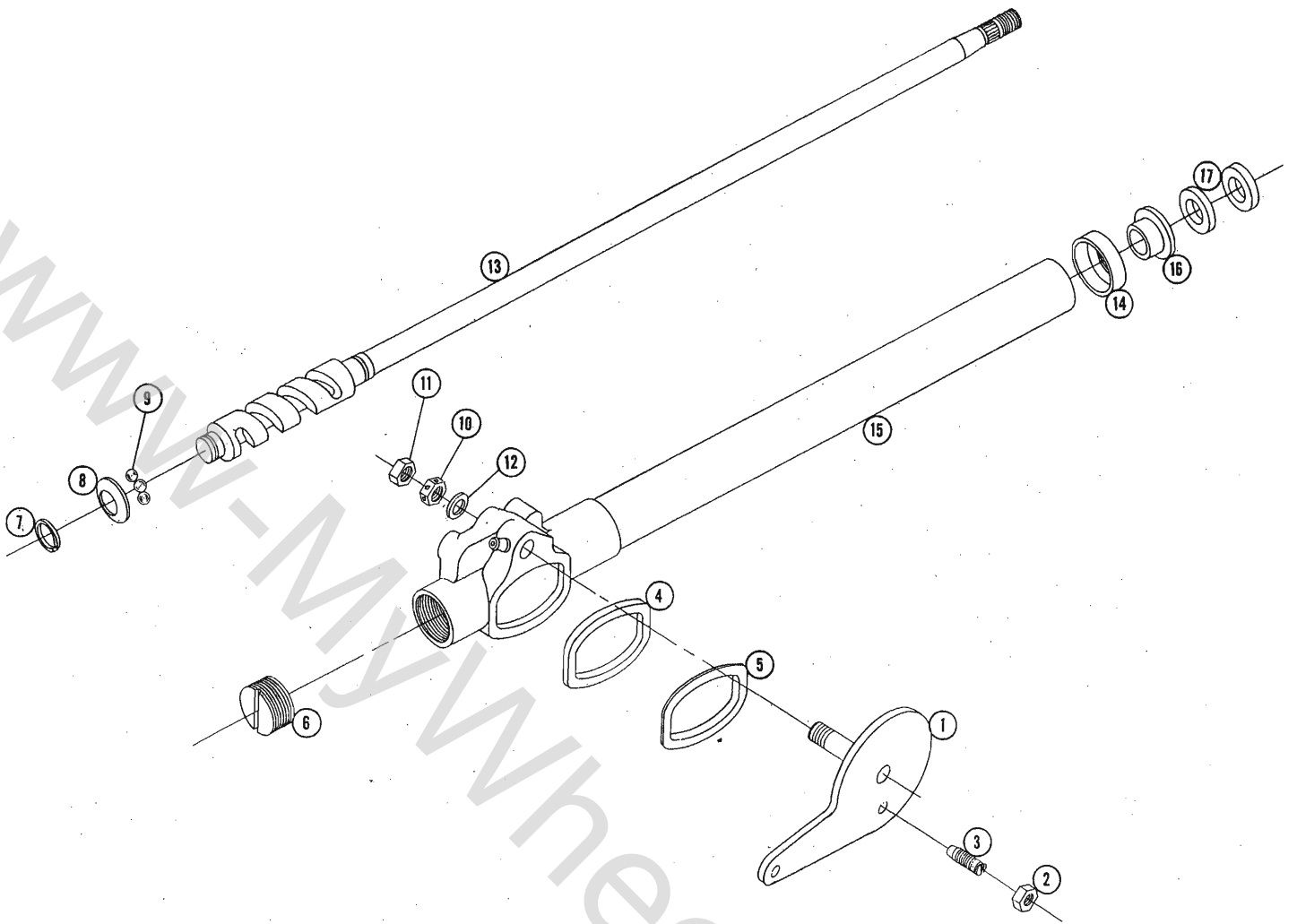
**953 Steering & Wheel Ass'y.**

953 TRACTOR PARTS LIST

(See Page 61 for Transmission Parts List, Page 21 for Steering Gear Parts List and Page 22 for Hydraulic Unit Parts List)

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	2840	Ass'y. Frame	1	83	908001-4	Bolt - Hex. 1/4-20 x 1/2	2
2	2773	Axle - Front	1	84	920081-4	Lockwasher 1/4 Dia.	17
3	1030	Fitting - Grease	4	85	908003-4	Bolt - Hex. 1/4-20 x 3/4	10
4	2736	Ass'y. Pin & Plate - Axle Mt'g.	1	86	2775	Ass'y. Lamp - Tail Light	1
5	908032-4	Bolt - Hex. 3/8-16 x 3/4	2	87	2580	Ass'y. Head Light & Brkt. R.H.	1
6	920083-4	Lockwasher 3/8 Dia.	8	88	2581	Ass'y. Head Light & Brkt. L.H.	1
7	2733	Arm - Steering R.H.	1	89	2798	Housing - Control Panel	1
8	2732	Arm - Steering L.H.	1	90	2870	Panel - Control	1
9	933230	Roll Pin 5/16 x 1 1/2	2	91	2871	Decal - Panel	1
10	3364	Ass'y. Spindle R.H.	1	92	2874	Bolt - Rd. Hd. #10-24 x 3/8	4
11	3365	Ass'y. Spindle L.H.	1	93	2774	Ass'y. Lamp - Gen. Warning	1
12	2710	Ass'y. Ball Joint	1	94	1747	Ass'y. Switch - Ignition	1
13	2771	Rod - Drag Link	1	95	1751	Ass'y. Switch - Starter	1
14	2711	Ass'y. Tie - Rod	1	96	2846	Bolt - Rd. Hd. 1/4-20 x 3/4	2
15	915002-6	Nut - Hex. - Nylock 3/8-24	4	97	2784	Ass'y. Lever Control R.H. Throttle	1
16	915004-6	Nut - Hex. - Nylock 1/2-20	1	98	2785	Ass'y. Lever Control L.H. Throttle	1
17	2777	Pedal - Clutch	1	99	3797	Lever & Knob Ass'y.	2
18	S-50-75	Snap Ring - Truarc 3/4 Shaft	5	100	3329	Screw - Special	2
19	3017	Shaft	1	101	915000-6	Nut Hex. Nylock 1/4-28	2
20	2891	Arm	1	102	4190	Bracket - Control R.H.	1
21	3979	Arm - Clutch Rod Pivot	1	103	3330	Washer	4
22	933158	Roll Pin 1/8 x 1 1/4	2	104	3798	Cable - Ass'y. Control - Throttle	1
23	2731	Washer	1	105	4191	Bracket - Control L.H.	1
24	1623	Pulley - Idler	1	106	4034	Cable Ass'y. Control - Choke	1
25	1536	Bushing	1	107	3023	Retainer - Cable	2
26	908035-6	Bolt - Hex. 3/8-16 x 1 1/4 Nylock	7	108	1770	Engine 9.6 H.P. Kohler	1
27	915113-6	Nut - Hex. - Nylock 3/8-16	20	109	3939	Elbow 1"-45° - Exhaust	1
28	2741	Rod - Clutch	1	110	3947	Nipple 1" Close - Exhaust	2
29	1861	Stud - Clutch Rod	1	111	2873	Muffler	1
30	S-52-3	Hair Pin Clip	2	112	2720	Pulley - Engine	1
31	1129	Spring - Clutch	1	113	1349	Key - Straight 1/4 x 1/4 x 1 1/2	1
32	2291	Bracket - Idler Belt Throw - Out	1	114	909862-4	Set Screw 5/16-18 x 5/16	2
33	2830	Ass'y. Lever - Parking Brake	1	115	2834	Guard - Engine	1
34	2835	Spring - Torsion	1	116	2833	Spacer	3
35	1001	Knob	1	117	909060-4	Bolt 1/4-20 x 1 1/2 Rd. Hd.	5
36	2758	Ass'y. Lift - Hydraulic	1	118	1787	Fitting 1/8-27 Straight - Nylon	1
37	2754	Block - Lift Pivot	2	119	1786	Ass'y. Fuel Strainer	1
38	908033-4	Bolt - Hex. - 3/8-16 x 3/8	8	120	943289-4	Nipple - Fuel Strainer	1
39	2744	Foot Rest R.H.	1	121	2739	Hose - Fuel Line	1
40	2745	Foot Rest L.H.	1	122	4256	Clip	2
41	2796	Pad - Rest R.H.	1	123	1217	Fitting - Elbow - Fuel Pump	1
42	2799	Pad - Rest L.H.	1	124	2815	Housing - Grille	1
43	909083-4	Bolt - Rd. Hd. 3/8-16 x 5/8	4	125	3764	"U" Bolt	2
44	2713	Ass'y. Steering (See page 9 for Breakdown)	1	126	2810	Grille	1
45	933192	Roll Pin 3/16 x 1 1/2	2	127	3699	Speed Nut	2
46	2708	Grommet	1	128	3368	Ass'y. Wheel Tire & Tube - Front	2
47	2817	Steering Wheel	1	129	3369	Ass'y. Wheel & Bearing	2
48	915235-4	Nut - Hex. - Jam 5/8-18	1	130	3370	Cone & Bearing	4
49	2847	Insert - Steering Wheel	1	131	3371	Cup - Bearing	4
50	2718	Fuel Tank	1	132	3373	Seal - Bearing	2
51	2728	Block - Wood	2	133	1656	Tire	2
52	2717	Strap	2	134	1657	Tube	2
53	3698	Speed Nut	4	135	3372	Hubcap	2
54	926317-4	Screw - #14 x 3/4 Rd. Hd. Self Tapping	6	136	915035-4	Nut - Castle 3/8-16	2
55	2714	Cap - Tank	1	137	932019-4	Cotter Pin 1/8 x 1 1/2	2
56	3926	Hitch	1	138	2845	Ass'y. Wheel & Tire - Rear	2
57	3988	Pin	1	139	2715	Wheel	2
58	2814	Ass'y. Cable & Yoke	1	140	2722	Tire	2
59	932121-4	Pin - Clevis 5/16 Dia.	2	141	2723	Tube	2
60	932001-4	Cotter Pin 1/16 x 3/4	2	142	2792	Ass'y. Cover - Shift Stick	1
61	3665	Clip - Cable	1	143	1385	Bolt - Hex. - Sems 1/4-20 x 1/2	11
62	2719	Ass'y. Pump - Hydraulic (See page 11 for Breakdown)	1	144	2795	Ass'y. Guard R.H.	1
63	4812	Pulley	1	145	2783	Guard	1
64	909861	Set Screw 5/16-18 x 1/4	2	146	2727	Frame - Seat	1
65	908015-4	Bolt - Hex. 5/16-18 x 1/2	4	147	908021-4	Bolt - Hex. Hd. 5/16-18 x 1 1/2	4
66	920082-4	Lockwasher 5/8 Dia.	4	148	915112-6	Nut - Hex. Nylock 5/8-18	4
67	920008-4	Washer - Plain 5/8	8	149	2818	Plug - Square Button	2
68	2721	Ass'y. Cylinder - Hydraulic	1	150	2787	Cushion - Seat	1
69	2747	Pin - Pivot	1	151	2788	Cushion Back	1
70	932124-4	Pin - Clevis 1/2 Dia.	1	152	2841	Cover - Hood	1
71	932017-4	Cotter Pin 1/8 x 1/2	1	153	1345	Thumb Screw	4
72	4834	Street Elbow 1/4 NPTF	2	154	1813	Pin - Tool	1
73	2729	Ass'y. Hose - Hydraulic	2	155	1591	Belt 47" Hyd.	1
74	908002-4	Bolt - Hex. 1/4-20 x 3/8	2	156	1592	Belt 82" Drive	1
75	915111-6	Nut - Nylock 1/4-20	10	157	1593	Belt Engine to Gen.	1
76	2712	Battery	1	158	2829	Decal - "953"	2
77	2725	Angle - Battery Clamp	1	159	4410	Decal - Wheel Horse Emblem	1
78	2724	Hook - Battery	2	160	2843	Decal - Steering Wheel Insert	1
79	2848	Ass'y. Wiring Harness	1	161	4418	Decal - Shift & Serial Number	1
80	4432	Wire - Ground	1	162	4058	Wire Ass'y.	2
81	4802	Switch - Push - Pull	1	163	4045	Bracket - Head Light	2
82	2836	Bracket - Headlight	1	164	2895	Gasket - Head Light	2
				165	4801	Lens & Housing Ass'y.	2
				166	2894	Bulb - Head Light	2
				167	926359-4	Screw	6



### 953 STEERING GEAR PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.
1	3780	Lever Arm (with cross bolt)	1
2	915087-4	Lock Nut (taper stud) $\frac{1}{2}$ -20 Hex.	1
3	3781	Taper Stud	1
4	3782	Seal	1
5	3783	Seal Retainer	1
6	3784	Adjusting Plug	1
7	3785	Retaining Ring	2
8	3786	Ball Cup	2
9	3787	Bearing Balls	20

Ref. No.	Part No.	Description	No. Req'd.
10	915117-6	Self - Locking Nut $\frac{3}{8}$ -11 Hex.	1
11	915240-4	Jam Nut $\frac{3}{8}$ -11 Hex.	1
12	3789	Plain Washer	1
13	3791	Cam & Tube Ass'y.	1
14	3793	Spacer	1
15	3788	Housing & Jacket Ass'y.	1
16	3794	Bushing	1
17	3795	Felt Washers	2

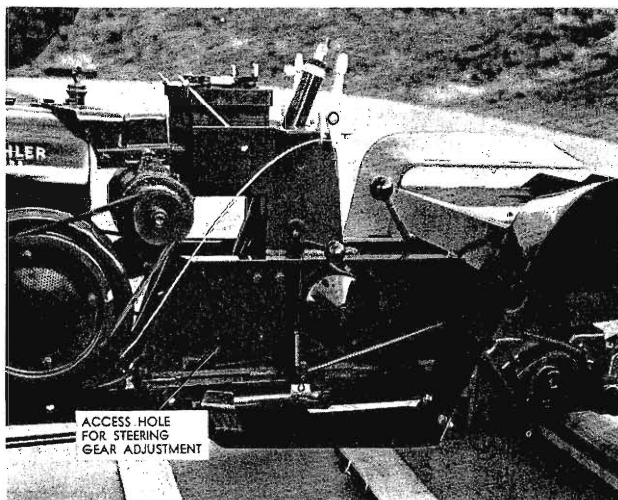


FIGURE I

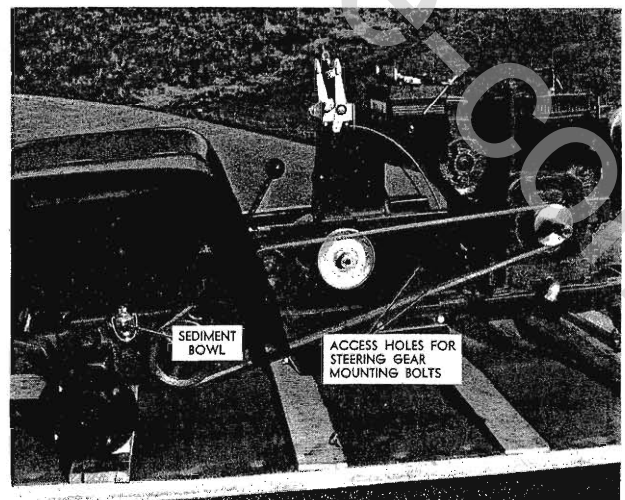
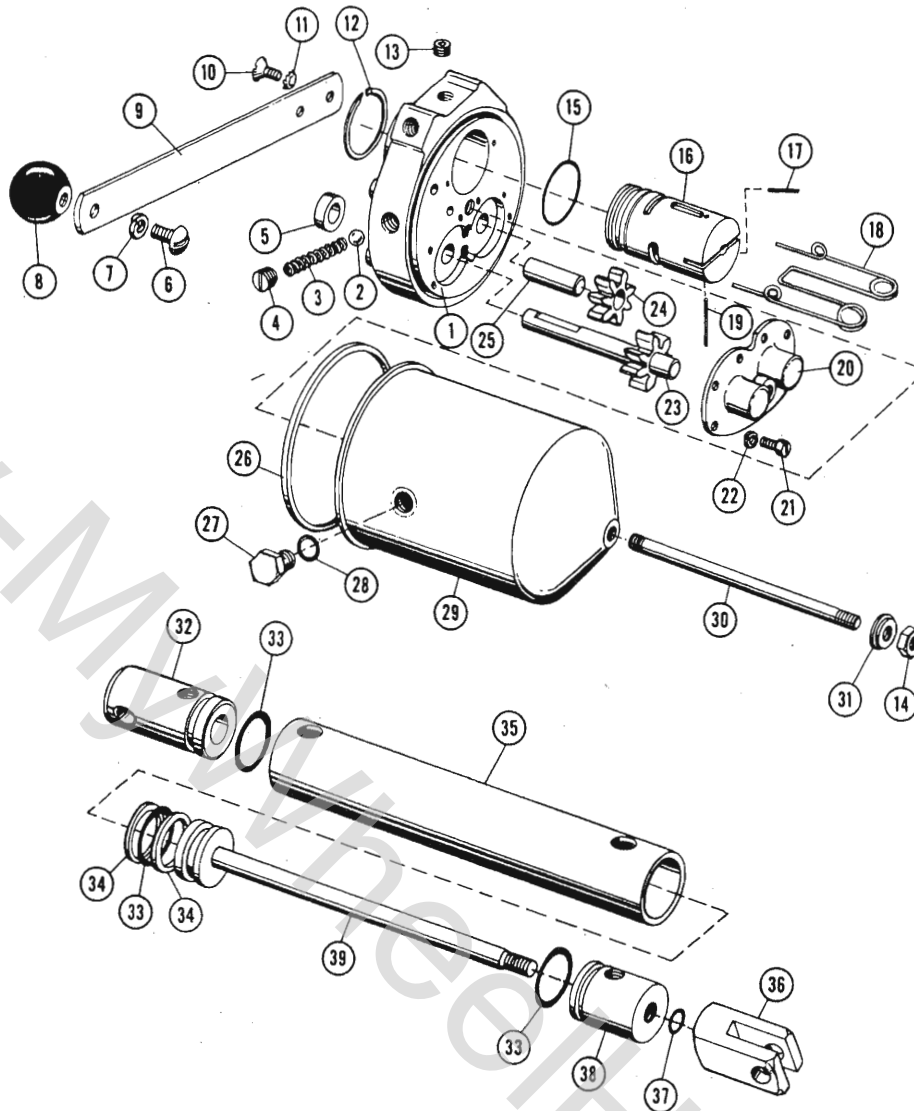


FIGURE II





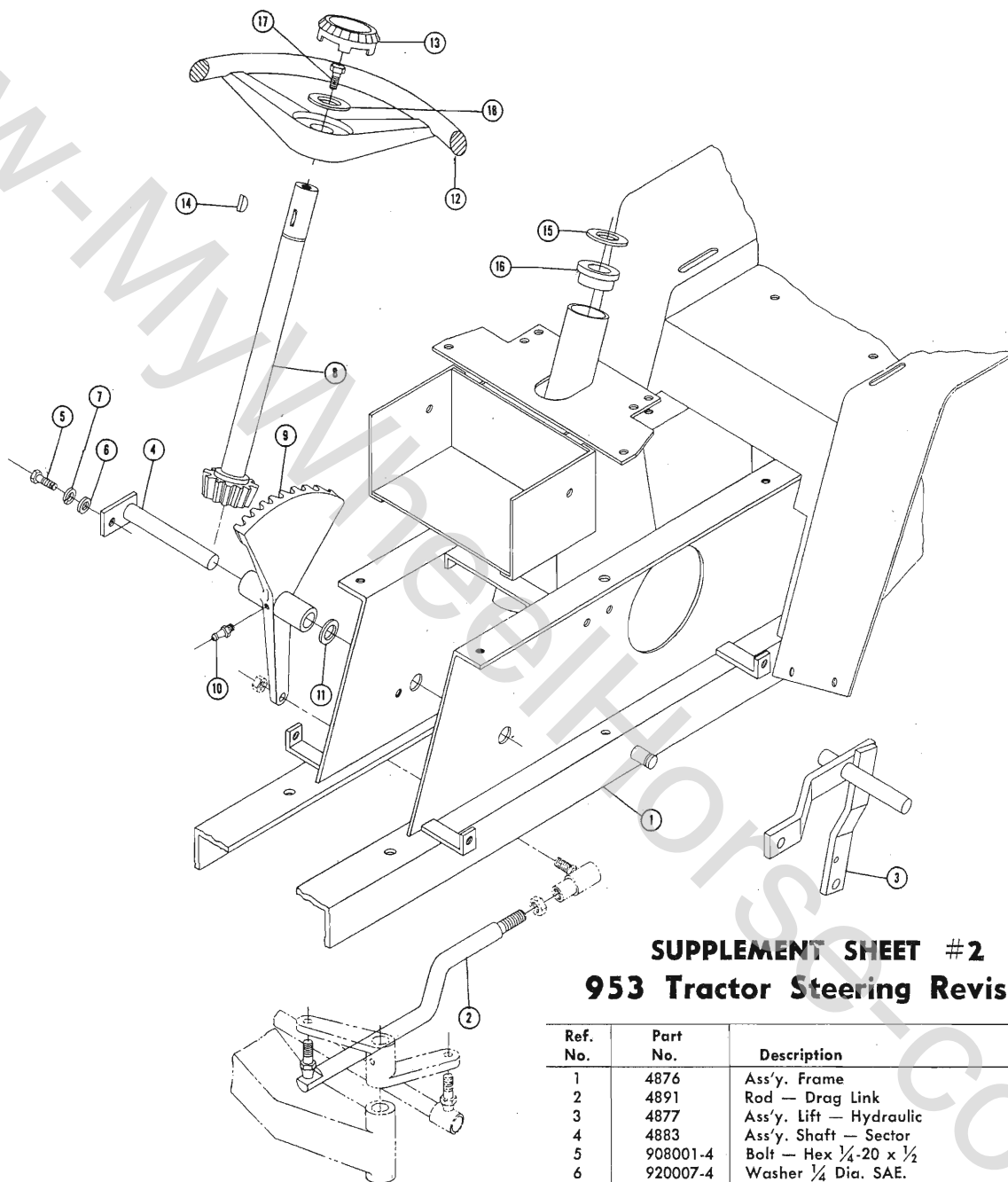
## 953 HYDRAULIC UNIT PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	4152	Body	1	21	1451	Cover Screw #10-32 x 7/16	6
2	4831	3/8 Relief Ball	1	22	920120-4	Lockwasher #10 Ext. Tooth	6
3	4832	Spring	1	23	4841	Drive Shaft Assembly	1
4	4833	Plug	1	24	4839	Idler Gear	1
5	1447	Shaft Seal	1	25	4840	Idler Shaft	1
6	909084-4	Screw 3/8-16 x 3/4	1	26	4842	Gasket	1
7	920083-4	Lockwasher 3/8	1	27	908203-4	1/2-20 x 1/2 Hex. Bolt	1
8	1001	Knob	1	28	4188	Washer	1
9	4153	Handle	1	29	4157	Reservoir	1
10	908817-4	Screw 1/4-20 x 3/8	2	30	4187	Stud	1
11	920081-4	Lockwasher 1/4 Dia.	2	31	1453	Washer	1
12	1449	Spirolox Snap Ring	1	32	4155	Head	1
13	943459-4	Allen Hd. Pipe Plug	1	33	1450	"O" Ring	3
14	915236-4	Hex. Jam Nut 3/8-16	1	34	1457	Back-Up Washer	2
15	1455	"O" Ring	1	35	4846	Tube	1
16	4154	Spool Valve	1	36	4156	Clevis	1
17	933169	Roll Pin 3/32 x 1 1/16	1	37	1456	"O" Ring	1
18	4837	Return Spring	1	38	4848	Guide	1
19	933158	Roll Pin 1/8 x 1 1/4	1	39	4849	Piston Rod Assembly	1
20	4838	Cover	1				

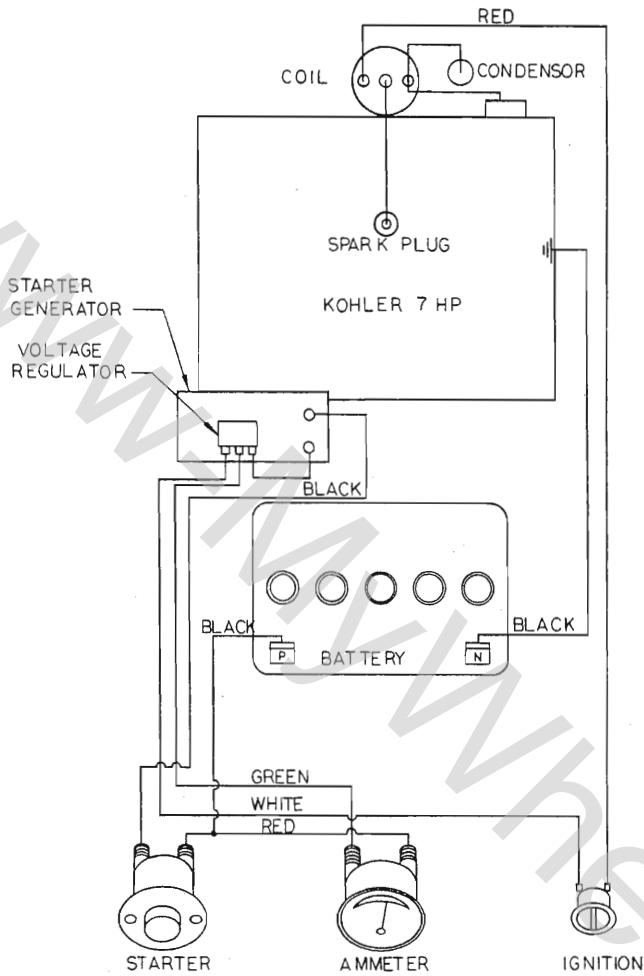


Due to the great demand for 953 tractors, the steering unit previously obtained from a supplier is being manufactured by Wheel Horse. To meet the increased production rate, the new parts shown below have been substituted for similar parts shown on page 6 in the 953 tractor manual.

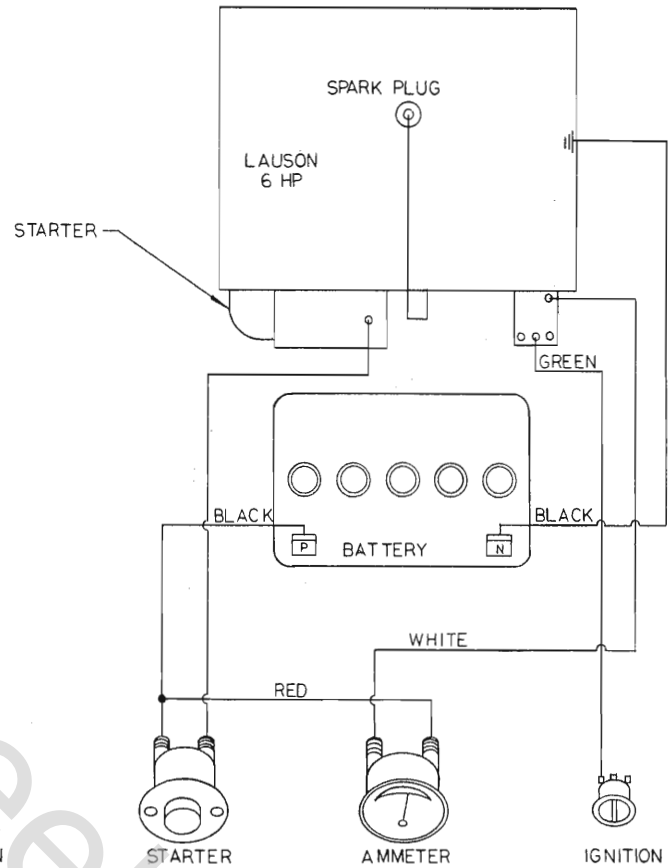


## SUPPLEMENT SHEET #2 953 Tractor Steering Revision

Ref. No.	Part No.	Description	No. Req'd.
1	4876	Ass'y. Frame	1
2	4891	Rod — Drag Link	1
3	4877	Ass'y. Lift — Hydraulic	1
4	4883	Ass'y. Shaft — Sector	1
5	908001-4	Bolt — Hex $\frac{1}{4}$ -20 x $\frac{1}{2}$	1
6	920007-4	Washer $\frac{1}{4}$ Dia. SAE.	1
7	920081-4	Lockwasher $\frac{1}{4}$ Dia.	1
8	4885	Ass'y. Shaft and Pinion	1
9	4880	Sector Steering	1
10	1030	Fitting — Grease	1
11	S-57-62	Washer — Shim	2
12	4875	Wheel — Steering	1
13	2897	Insert	1
14	937014	Key #9 Woodruff	1
15	5209	Washer-Shim	1
16	4890	Bushing — Steering Column	2
17	908031-6	Bolt Hex — Nylock $\frac{3}{8}$ -16 x $\frac{5}{8}$	1
18	2844	Washer	1



Wiring for 753



Wiring for 653

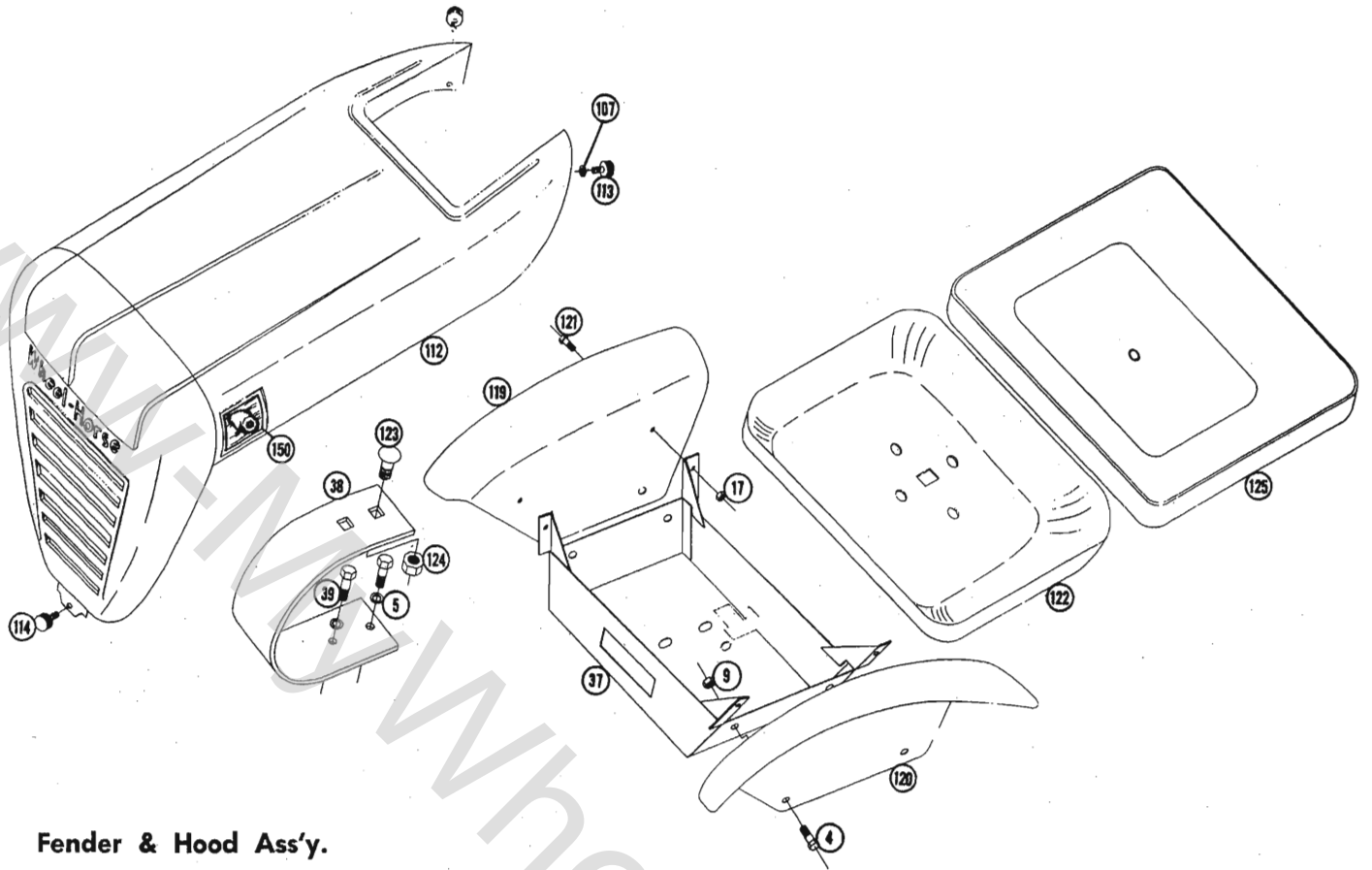
## PARTS LIST for MODELS 633, 653 and 753 LAWN and GARDEN TRACTORS

(Except Transmission — see Model 5025 Transmission break down and Parts List.)

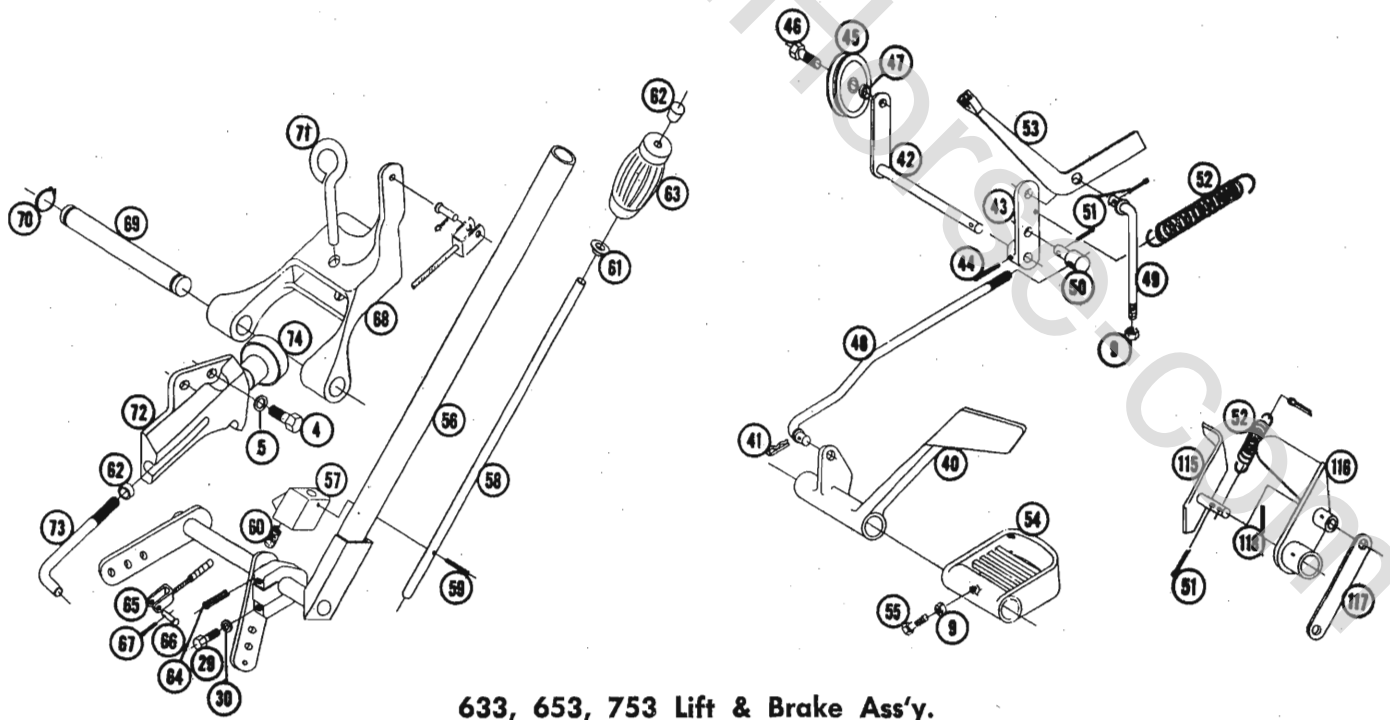
When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.
1	2290	Ass'y. Frame	1
2	1611	Pulley	1
3	909862-4	Set Screw $\frac{5}{16}$ - 18 x $\frac{5}{16}$ Hex Soc.	1
4	908032-4	Bolt Hex $\frac{3}{8}$ - 16 x $\frac{3}{4}$	12
5	920083-4	Lockwasher $\frac{3}{8}$ Dia.	9
6	937014	Key #9 Woodruff	1
7	3574	Hub - Rear Wheel	2
8	909554-4	Set Screw Sq. Hd. $\frac{3}{8}$ - 16 x 1	2
9	915113-6	Nut - Hex - Nylock $\frac{3}{8}$ - 16	21
10	937022	Key #15 Woodruff	2
11	1649	Axle - Front	1
12	1030	Fitting - Grease - Straight	5
13	1481	Fitting - Grease - 45°	1
14	2268	Ass'y. Hood Stand	1
15	2271	Ass'y. Fuel Tank	1
16	910057-4	Bolt - $\frac{1}{4}$ - 20 x $\frac{5}{8}$ Fil. Hd.	4
17	915111-6	Nut - Hex. Nylock $\frac{1}{4}$ - 20	14

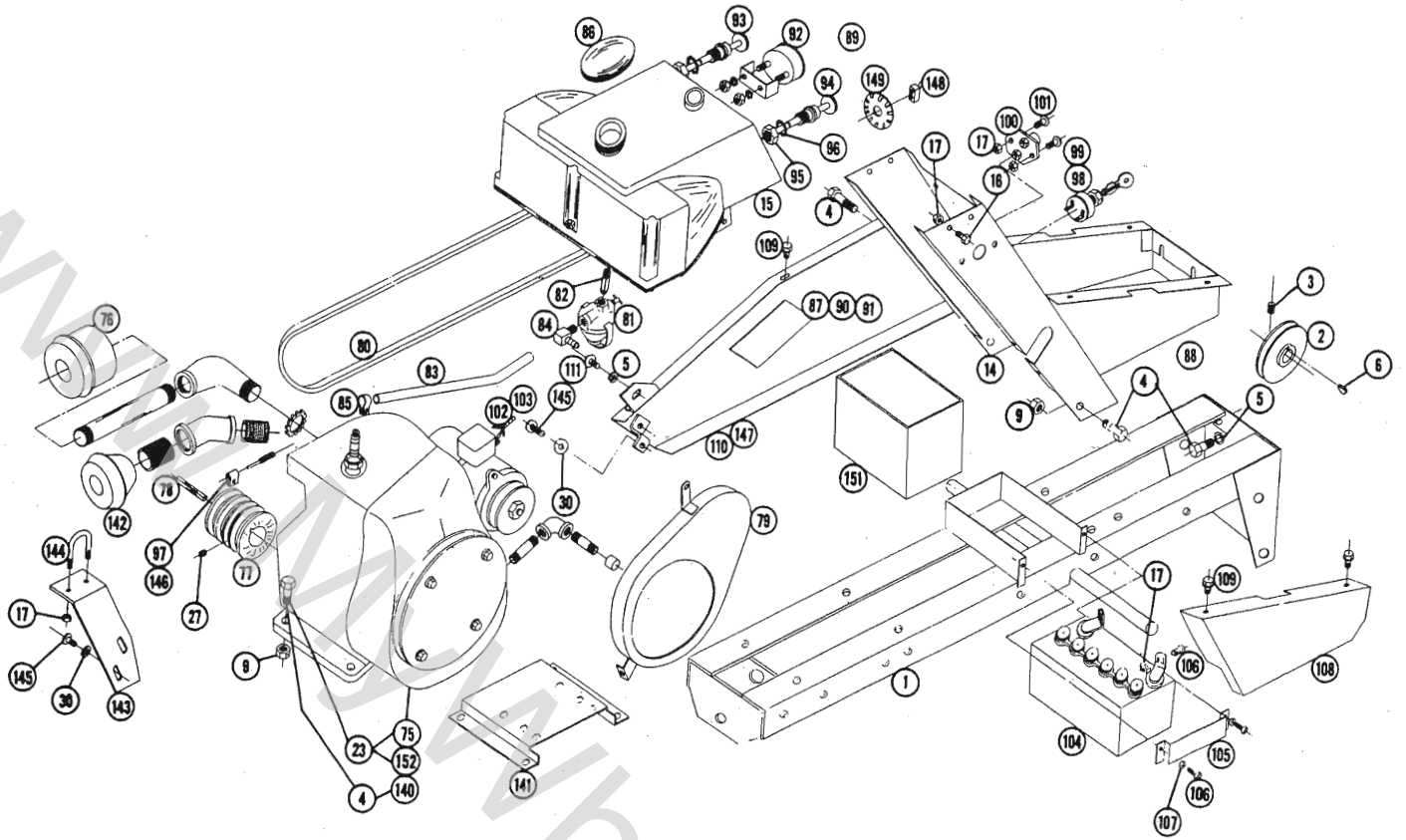
Ref. No.	Part No.	Description	No. Req'd.
18	1900	Link - Steering Pivot	1
19	1932	Shaft - Steering Lower	1
20	4413	Sector - Steering	1
21	933215	Roll Pin $\frac{1}{4}$ x $1\frac{1}{4}$	3
22	4412	Support Steering	1
23	908035-4	Bolt - Hex. $\frac{3}{8}$ - 16 x $1\frac{1}{4}$	6
24	3945	Shaft - Steering - Upper	1
25	3917	Gear - Steering Pinion	1
26	1083	Collar	1
27	909848-4	Set Screw $\frac{1}{4}$ - 20 x $\frac{1}{4}$ Hex.	2
28	2294	Ass'y. Pin and Plate	1
29	908015-4	Bolt - Hex. $\frac{5}{16}$ - 18 x $\frac{1}{2}$	4
30	920082-4	Lock Washer $\frac{5}{16}$ Dia.	7
31	1899	Arm - Steering	2
32	933216	Roll - Pin $\frac{1}{4}$ x $1\frac{3}{8}$	2
33	1898	Ass'y. Spindle	2
34	1772	Ass'y. Ball Joint R.H.	1



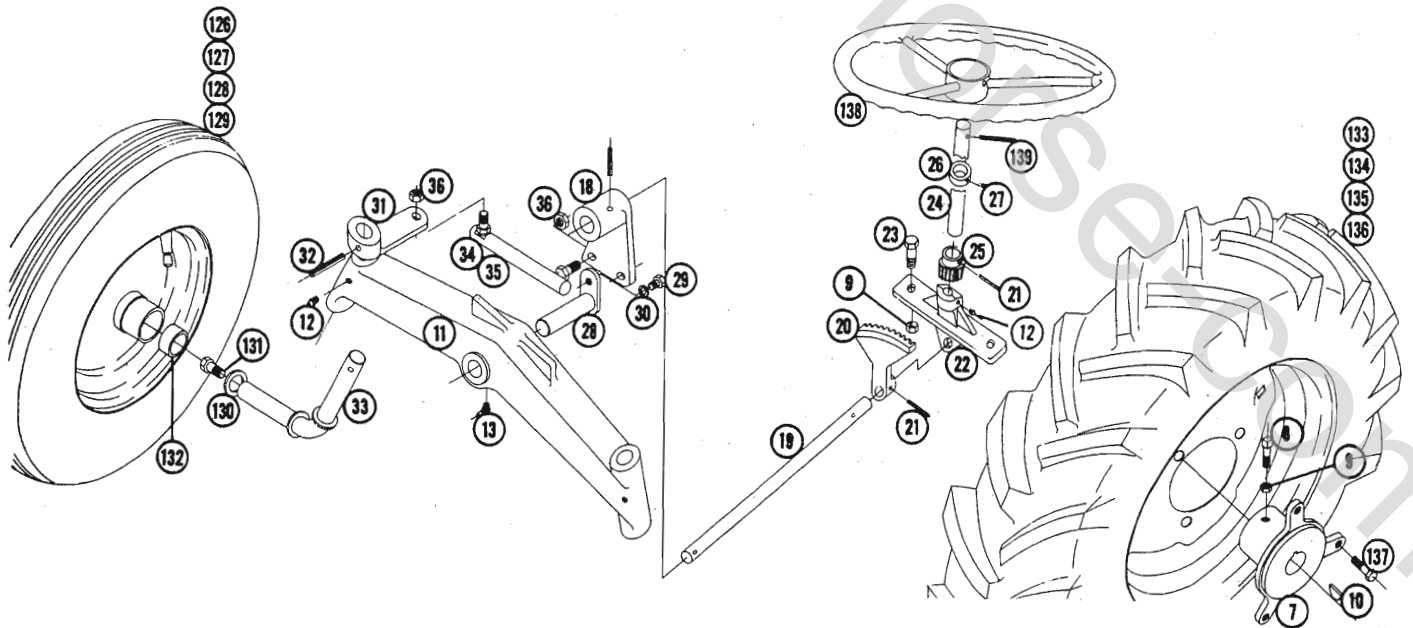
Fender & Hood Ass'y.



633, 653, 753 Lift & Brake Ass'y.



**Main Frame Ass'y.**



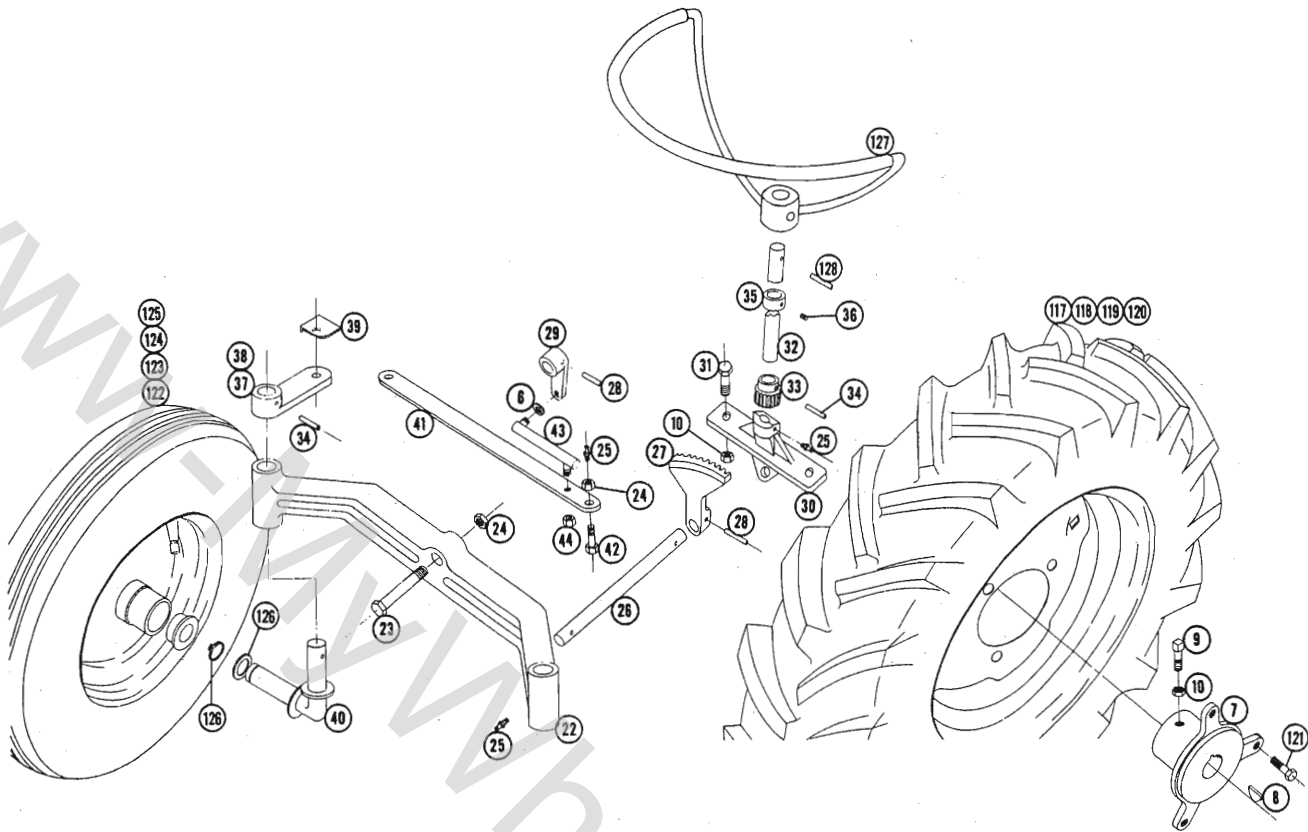
**633, 653, 753 Steering & Wheel Ass'y.**

# PARTS LIST for MODELS 633, 653 and 753 LAWN and GARDEN TRACTORS

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
35	1773	Ass'y. Ball Joint L.H.	1	94	4456	Ass'y. Control - Choke	1
36	915002-6	Nut Hex - Nylock $\frac{3}{8}$ - 24	4	95	1364	Nut - $\frac{3}{16}$ Round	2
37	1840	Ass'y. Tool Box	1	96	1331	Lock Washer $\frac{3}{16}$ Shake Proof	2
38	3537	Spring - Seat	1	97	1277	Clip (Kohler)	2
39	908034-4	Bolt Hex $\frac{3}{8}$ - 16 x 1	2	98	1747	Ass'y. Switch Ignition (Kohler)	1
40	2267	Pedal - Clutch	1	99	3656	Ass'y. Switch Ignition (Lauson)	1
41	1372	Hair Pin	1	100	1751	Ass'y. Switch Starter	1
42	3950	Ass'y. Idler Arm & Shaft	1	101	909055-4	Bolt $\frac{1}{4}$ - 20 x $\frac{3}{4}$ Rd. Hd.	2
43	3979	Arm - Clutch Rod Pivot	1	102	3063	Wiring Harness (Kohler)	1
44	933158	Roll Pin - $\frac{1}{8}$ x $1\frac{1}{4}$	1	103	3596	Wiring Harness (Lauson)	1
45	1623	Pulley - Idler	1	104	3653	Battery	1
46	1363	Bolt $\frac{3}{8}$ - 16 x $\frac{7}{8}$ Special	1	105	4206	Clamp - Battery	1
47	1536	Bushing.	1	106	908002-4	Bolt - Hex $\frac{1}{4}$ - 20 x $\frac{5}{8}$	4
48	2593	Rod - Clutch	1	107	920081-4	Lock Washer $\frac{1}{4}$ Dia.	5
49	3935	Rod - Brake	1	108	4419	Shield	1
50	1861	Stud - Clutch Rod	1	109	1385	Screw - Hex - Sems $\frac{1}{4}$ - 20 x $\frac{1}{2}$	5
51	932017-4	Cotter Pin $\frac{1}{8}$ x 1	4	110	4450	Ass'y. Belt Guard (Kohler)	1
52	1014	Spring - Clutch	2	111	909082-4	Screw - Rd. Hd. $\frac{3}{8}$ - 16 x $\frac{1}{2}$	1
53	4417	Ass'y. Lever & Knob - Brake	1	112	2582	Ass'y. Hood Stand	1
54	4421	Foot Rest	2	113	1345	Thumbscrew $\frac{1}{4}$ - 20 x $\frac{3}{4}$	2
55	909555-4	Set Screw $\frac{3}{8}$ - 16 x 1 Sq. H. Cup Pt.	2	114	1346	Thumbscrew $\frac{1}{4}$ - 20 x $\frac{3}{8}$	1
56	2266	Ass'y. Lift Lever - Manual	1	115	4246	Ass'y. Trip Lever	1
57	4438	Plunger	1	116	4239	Pedal - Attachment Clutch	1
58	4439	Rod	1	117	3933	Link	1
59	933168	Roll Pin $\frac{5}{32}$ x $1\frac{1}{8}$	1	118	933188	Roll Pin $\frac{3}{16}$ x 1	1
60	3624	Spring	1	119	3983	Fender R.H.	1
61	3578	Guide - Plunger	1	120	3984	Fender L.H.	1
62	3680	Cap	2	121	908003-4	Bolt - Hex. $\frac{1}{4}$ - 20 x $\frac{3}{4}$	4
63	1000	Handle - Grip	1	122	3973	Seat	1
64	932036-4	Cotterpin $\frac{3}{16}$ x $1\frac{1}{2}$	2	123	900112-4	Bolt Carriage $\frac{1}{2}$ - 13 x 1	1
65	3931	Ass'y. Cable	1	124	915115-6	Nut - Hex - Nylock $\frac{1}{2}$ - 13	1
66	932120-4	Pin - Clevis $\frac{1}{4}$ Dia.	2	125	3978	Cushion - Seat	1
67	932001-4	Cotter Pin $\frac{1}{16}$ x $\frac{3}{4}$	2	126	1709	Ass'y. Wheel - Front	2
68	3926	Hitch	1	127	1712	Wheel	2
69	3988	Pin - Hitch	1	128	1656	Tire	2
70	S-50-75	Snap Ring $\frac{3}{4}$ Shaft	2	129	1657	Tube	2
71	1813	Tool Pin	1	130	2844	Washer	2
72	2274	Quadrant	1	131	908033-6	Bolt - Hex $\frac{3}{8}$ - 16 x $\frac{7}{8}$ Nylock	2
73	2179	Rod Height Control	1	132	2816	Hub Cap	2
74	2196	Knob Height Control	1	133	1667	Ass'y. Wheel & Tire Rear	2
75	1799	Ass'y. Engine 7 H.P. Kohler (Elec.)	1	134	1700	Wheel	1
76	1744	Muffler	1	135	1662	Tire - All Purpose	1
77	1621	Pulley	1	136	1654	Tube	1
78	1349	Key $\frac{1}{4}$ x $\frac{1}{4}$ x $1\frac{1}{2}$	1	137	1004	Lug Bolt	6
79	4420	Guard - Engine Belt	1	138	4414	Wheel - Steering	1
80	1576	"V" Belt - Drive	1	139	933191	Roll Pin $\frac{3}{16}$ x $1\frac{3}{8}$	1
81	1786	Ass'y. Fuel Strainer	1	140	2638	Ass'y. Engine 6 H.P. Lauson (Elec.)	1
82	1192	Nipple - Fuel Tank	1	141	4416	Base	1
83	1796	Hose - Fuel Line	1	142	1739	Muffler	1
84	1217	Fitting - Elbow	1	143	2297	Brace - Muffler	1
85	4256	Clip - Fuel Line	1	144	1240	"U" Bolt	1
86	3998	Cap - Fuel Tank	1	145	1432	Screw - Rd. Hd. $\frac{5}{16}$ - 24 x $\frac{1}{2}$	3
87	2589	Decal - 753	1	146	3348	Clip - Choke Cable (Lauson)	1
88	4418	Decal - Shift & Serial No.	1	147	4423	Ass'y. Guard - Drive Belt (Lauson)	1
89	4422	Decal - Instrument Panel	1	148	3279	Ass'y. Switch & Nut - Toggle	1
90	2645	Decal - 633	1	149	4249	Plug - Button	1
91	2637	Decal - 653	1	150	4410	Decal Wheel Horse Emblem	2
92	1745	Ammeter	1	151	4403	Tool Box	1
93	4455	Ass'y. Control - Throttle	1	152	2893	Ass'y. Engine 6 H.P. Kohler (Recoil)	1

## Steering and Wheel Assembly



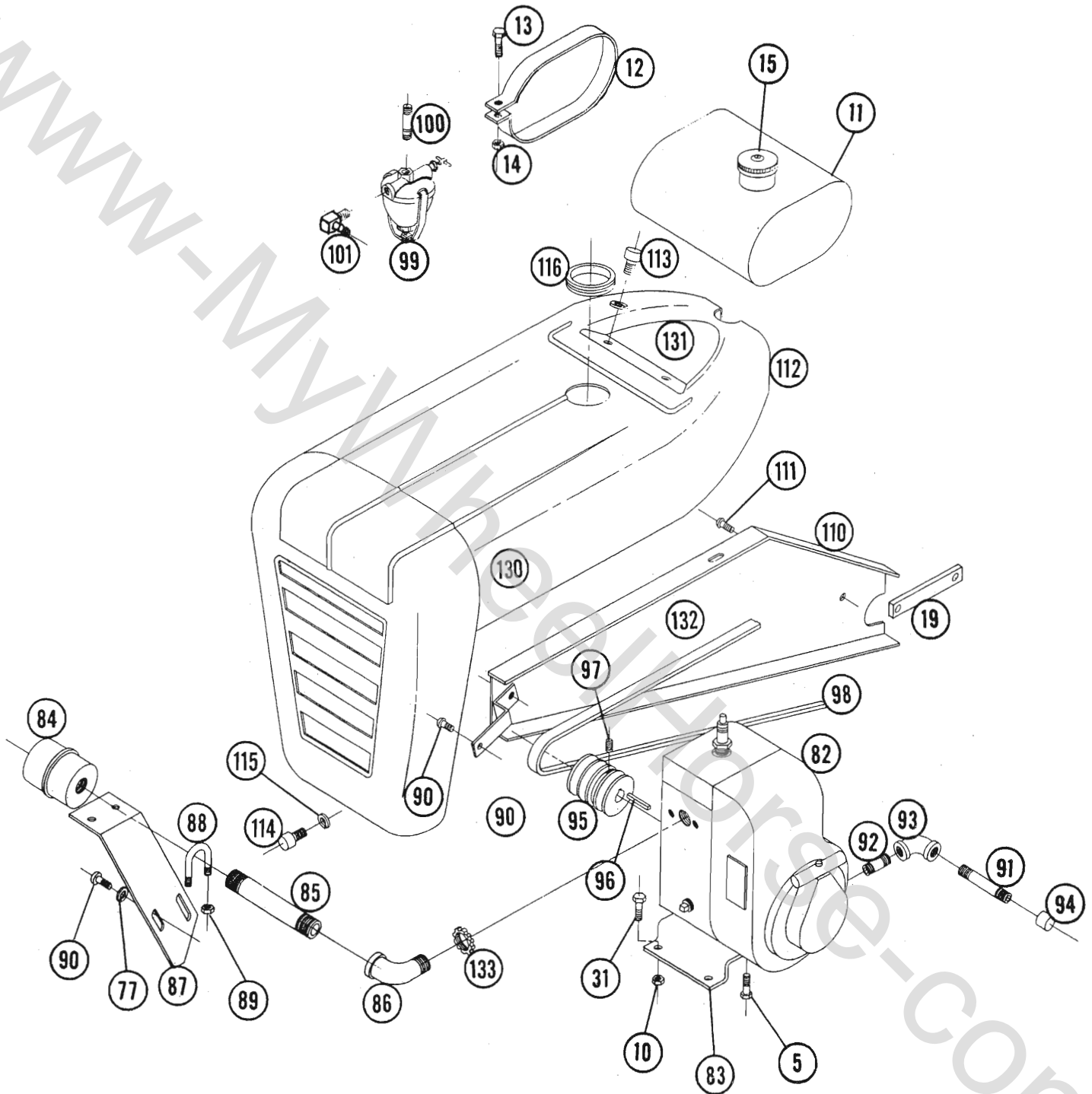
### PART LIST FOR MODEL 603 TRACTOR

(Except Transmission — see Model 5025 Transmission break down and Parts List.)

When ordering parts always list Part No. and name of part.

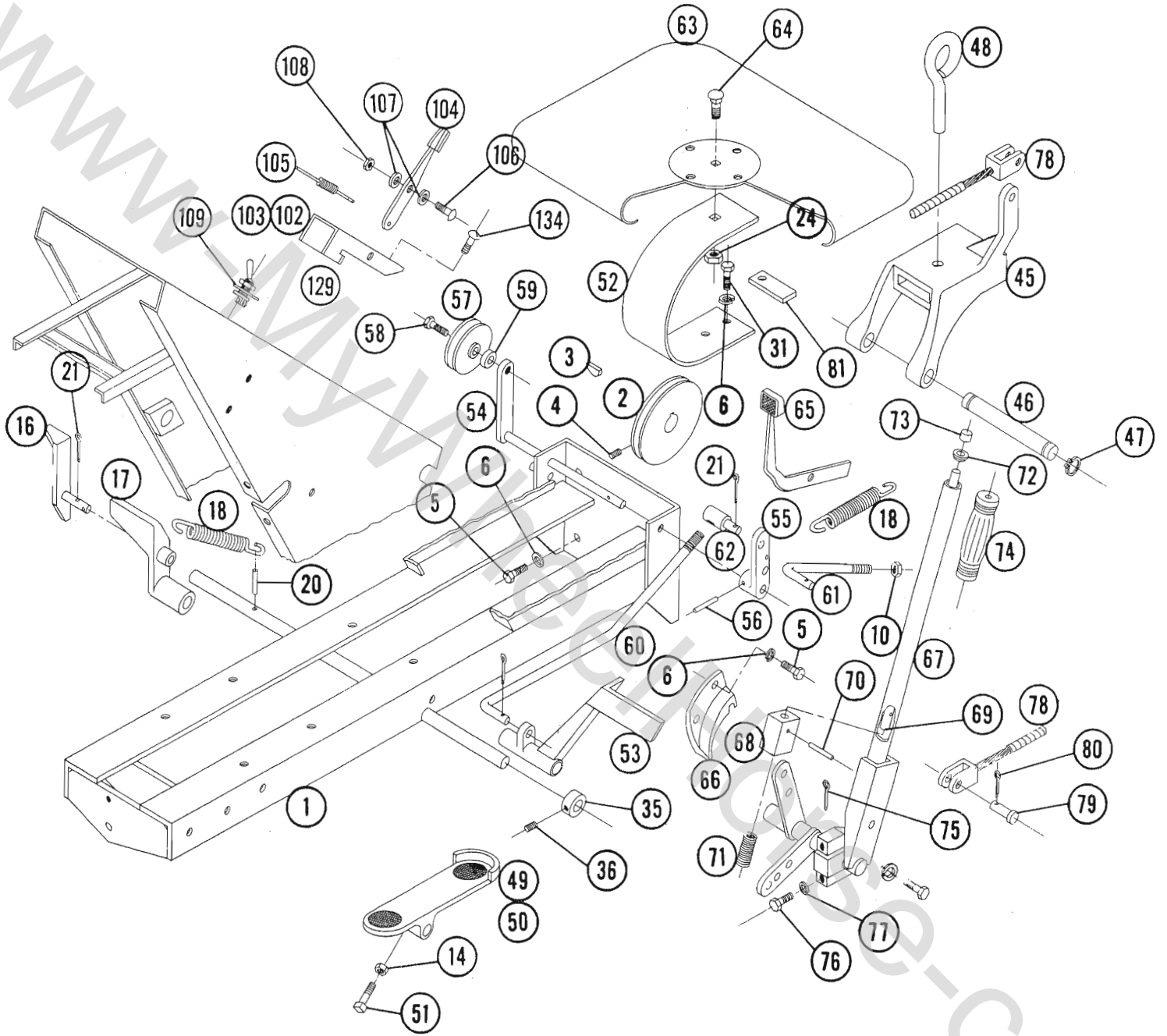
Part No.	Ref. No.	Description	No. Req'd.	Part No.	Ref. No.	Description	No. Req'd.
1	2878	Ass'y. Frame	1	23	908064-4	Bolt ½ - 13 x 2¾	1
2	1611	Pulley - Trans.	1	24	915115-6	Nut - Nylock ½ - 13	4
3	937014	Key - #9 Woodruff	1	25	1030	Fitting - Grease	8
4	909862-4	Set Screw ⅜ - 18 x ⅝ Hex Soc.	1	26	3944	Shaft - Steering - Lower	1
5	908032-4	Bolt - Hex ⅜ - 16 x ¾	10	27	4413	Sector - Steering	1
6	920083-4	Lock Washer ⅜ Dia.	9	28	933217	Roll Pin ¼ x 1½	2
7	3574	Hub - Wheel	2	29	3918	Pivot - Steering	1
8	937022	Key - #15 Woodruff	2	30	4412	Support - Steering	1
9	909554	Set - Screw Sq. Hd. ⅜ - 16 x 1	2	31	908035-4	Bolt - Hex. - ⅜ - 16 x 1¼	8
10	915113-6	Nut - Nylock ⅜ - 16	9	32	2671	Shaft - Steering - Upper	1
11	2676	Ass'y. Tank - Fuel	1	33	3917	Gear - Steering Pinion	1
12	2890	Strap	1	34	933215	Roll Pin ¼ x 1¼	3
13	908019-4	Bolt - Hex ⅜ - 18 x 1	1	35	1085	Collar	2
14	915112-6	Nut - Nylock ⅜ - 18	3	36	909848-4	Set Screw ¼ - 20 x ¼ Hex Soc.	2
15	1789	Cap - Fuel Tank	1	37	3919-R	Arm - Steering RH	1
16	4246	Ass'y. Trip Lever W/A	1	38	3919-L	Arm - Steering LH	1
17	4239	Pedal - Attachment Clutch	1	39	4447	Stop	1
18	1014	Spring	2	40	4408	Ass'y. Spindle	2
19	3933	Link	1	41	3605	Tie Rod	1
20	933188	Roll Pin ⅜ x 1	1	42	3949	Pin - Clevis	2
21	932017-4	Cotter Pin ⅜ x 1	6	43	3940	Link - Drag	1
22	4220	Axle	1	44	915002-6	Nut - Nylock ⅜ - 24	1

# 603 Main Frame Assembly





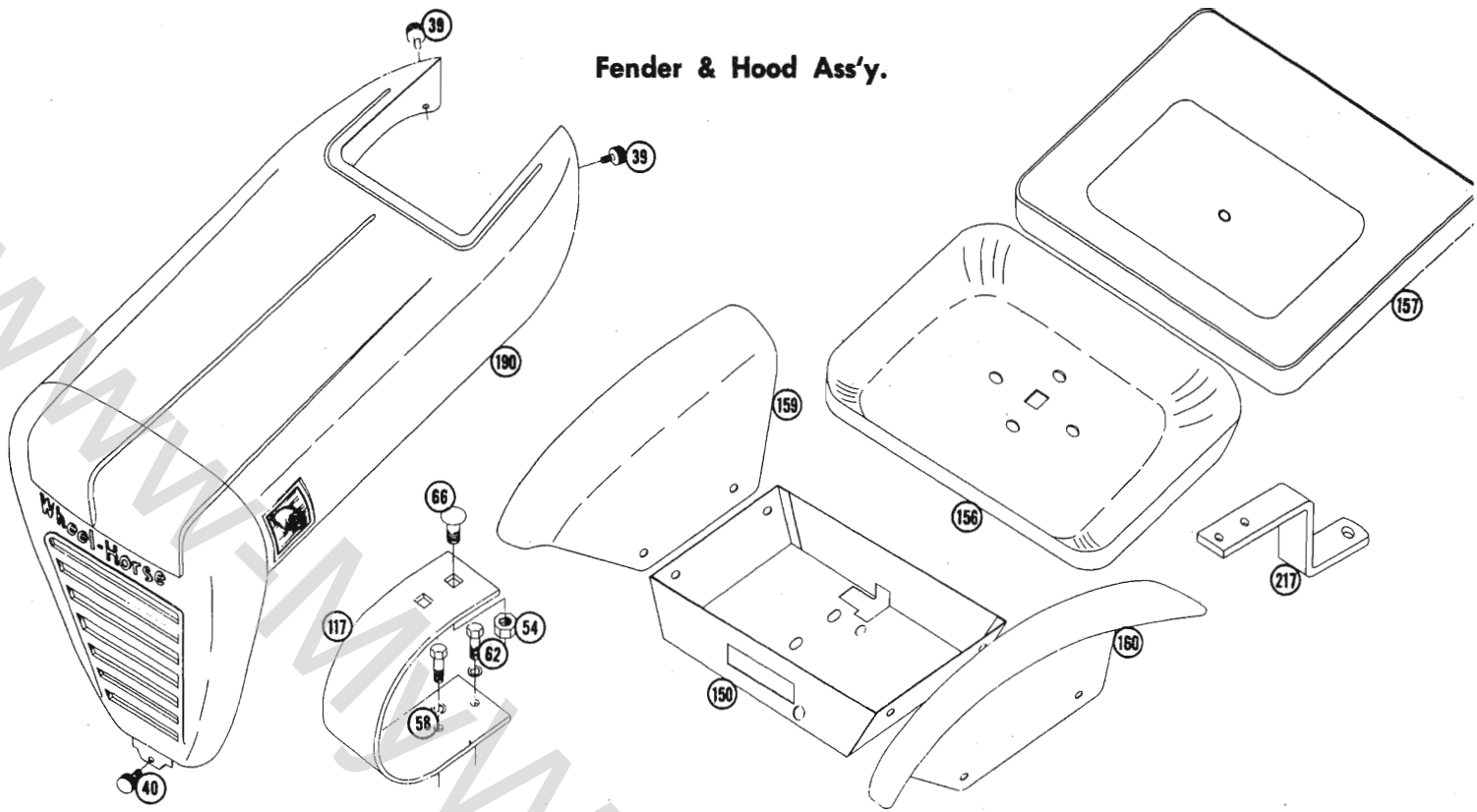
# 603 Main Frame Assembly



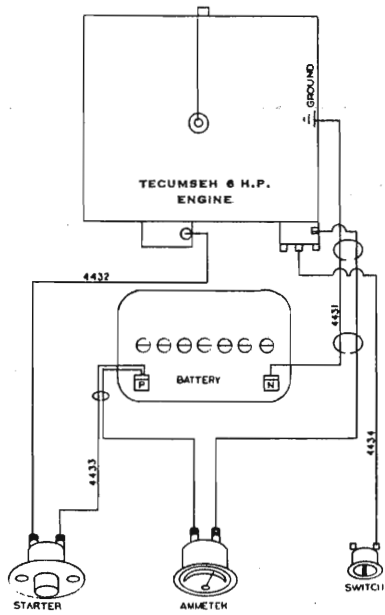
**PARTS LIST FOR MODEL 603 TRACTOR (continued)**

Part No.	Ref. No.	Description	No. Req'd.	Part No.	Ref. No.	Description	No. Req'd.
45	3926	Hitch	1	90	1432	Bolt - Rd. Hd. $\frac{5}{16}$ - 24 x $\frac{1}{2}$	3
46	3988	Pin	1	91	4213	Nipple $\frac{1}{4}$ Pipe x 3	1
47	S-50-75	Snap Ring $\frac{3}{4}$ Shaft	4	92	4218	Nipple $\frac{1}{4}$ Pipe x $1\frac{1}{4}$	1
48	1813	Tool Pin	1	93	4216	Elbow $\frac{1}{4}$ x 90°	1
49	4200	Foot Rest - RH	1	94	4217	Cap - $\frac{1}{4}$ Pipe	1
50	4201	Foot Rest - LH	1	95	1621	Pulley - Engine	1
51	909545-4	Set Screw - Sq. Hd. $\frac{5}{16}$ - 18 x $1\frac{1}{4}$	2	96	1349	Key $\frac{1}{4}$ x $\frac{1}{4}$ x $1\frac{1}{2}$	1
52	3537	Spring - Seat	1	97	909484	Set Screw $\frac{1}{4}$ - 20 x $\frac{1}{4}$ Cup Pt.	1
53	2267	Pedal - Clutch	1	98	1576	"V" Belt - Drive - 70"	1
54	3950	Ass'y. Idler Arm & Shaft	1	99	1786	Ass'y. Fuel Strainer	1
55	3979	Arm - Clutch Rod Pivot	1	100	1192	Nipple - Fuel Tank $\frac{1}{8}$ Close Pipe	1
56	933158	Roll Pin $\frac{1}{8}$ x $1\frac{1}{4}$	1	101	1217	Fitting - Elbow	1
57	1623	Pulley - Idler	1	102	2734	Ass'y. Control - Throttle & Choke	1
58	1363	Bolt $\frac{3}{8}$ - 16 x $\frac{7}{8}$ Special	1	103	3328	Bracket	1
59	1536	Bushing	1	104	3327	Ass'y. Lever & Knob	2
60	2593	Rod - Clutch	1	105	3331	Wire Ass'y.	2
61	3935	Rod - Brake	1	106	3329	Screw	2
62	1861	Stud - Clutch Rod	1	107	3330	Washer - Friction	4
63	3973	Seat	1	108	915000-6	Nut - Nylock	2
64	900112-4	Bolt - Carriage $\frac{1}{2}$ - 13 x 1	1	109	3279	Ass'y. Switch - Ignition - Toggle	1
65	3069	Ass'y. Lever & Knob - Brake	1	110	4423	Ass'y. Belt Guard	1
66	4222	Quadrant	1	111	1385	Screw - Sems $\frac{1}{4}$ - 20 x $\frac{1}{2}$	2
67	2266	Ass'y. Lift Lever - Manual	1	112	2669	Ass'y. Hood - Complete	1
68	4438	Plunger	1	113	1345	Thumb Screw $\frac{1}{4}$ - 20 x $\frac{3}{4}$	2
69	4439	Rod	1	114	1346	Thumb Screw $\frac{1}{4}$ - 20 x $\frac{3}{8}$	1
70	933168	Roll Pin $\frac{5}{32}$ x $1\frac{1}{16}$	1	115	920081-4	Lock Washer $\frac{1}{4}$ Dia.	3
71	3624	Spring	1	116	2767	Grommet $2\frac{1}{2}$ I. D.	1
72	3578	Guide - Plunger	1	117	1667	Ass'y. Wheel - Rear	2
73	3680	Cap	1	118	1700	Wheel	2
74	1000	Handle Grip	1	119	1662	Tire - Lawn Thread	2
75	932036-4	Cotter Pin $\frac{3}{16}$ x $1\frac{1}{2}$	1	120	1654	Tube	2
76	908015-4	Bolt $\frac{5}{16}$ - 18 x $\frac{1}{2}$	3	121	1004	Lug Bolt	6
77	920082-4	Lock Washer $\frac{5}{16}$ Dia.	5	122	1709	Ass'y. Wheel - Front	2
78	3931	Ass'y. Cable	1	123	1712	Wheel	2
79	932120-4	Pin - Clevis $\frac{1}{4}$ Dia.	2	124	1656	Tire	2
80	932001-4	Cotter Pin $\frac{1}{16}$ x $\frac{3}{4}$	2	125	1657	Tube	2
81	3583	Clamp - Cable	1	126	1278	Washer	2
82	2639	Ass'y. Engine 6 HP Lauson (Re.)	1	127	2668	Wheel - Steering	1
83	4416	Base	1	128	933191	Roll Pin - $\frac{3}{16}$ x $1\frac{3}{8}$	1
84	1739	Muffler	1	129	2875	Decal - Choke & Throttle	1
85	1754	Nipple $\frac{3}{4}$ Pipe x $5\frac{1}{2}$	1	130	4410	Decal - Wheel Horse Emblem	2
86	1755	Elbow $\frac{3}{4}$ Pipe x 90° Street El.	1	131	4418	Decal - Shift & Serial No.	1
87	2297	Brace - Exhaust	1	132	2636	Decal "603"	1
88	1240	"U" Bolt	1	133	1756	Nut - Lock $\frac{3}{4}$ Pipe	1
89	915111-6	Nut - Nylock $\frac{1}{4}$ - 20	2	134	909134-4	Bolt - Round R.D. H.D. 10 - 32 x $\frac{3}{8}$	2

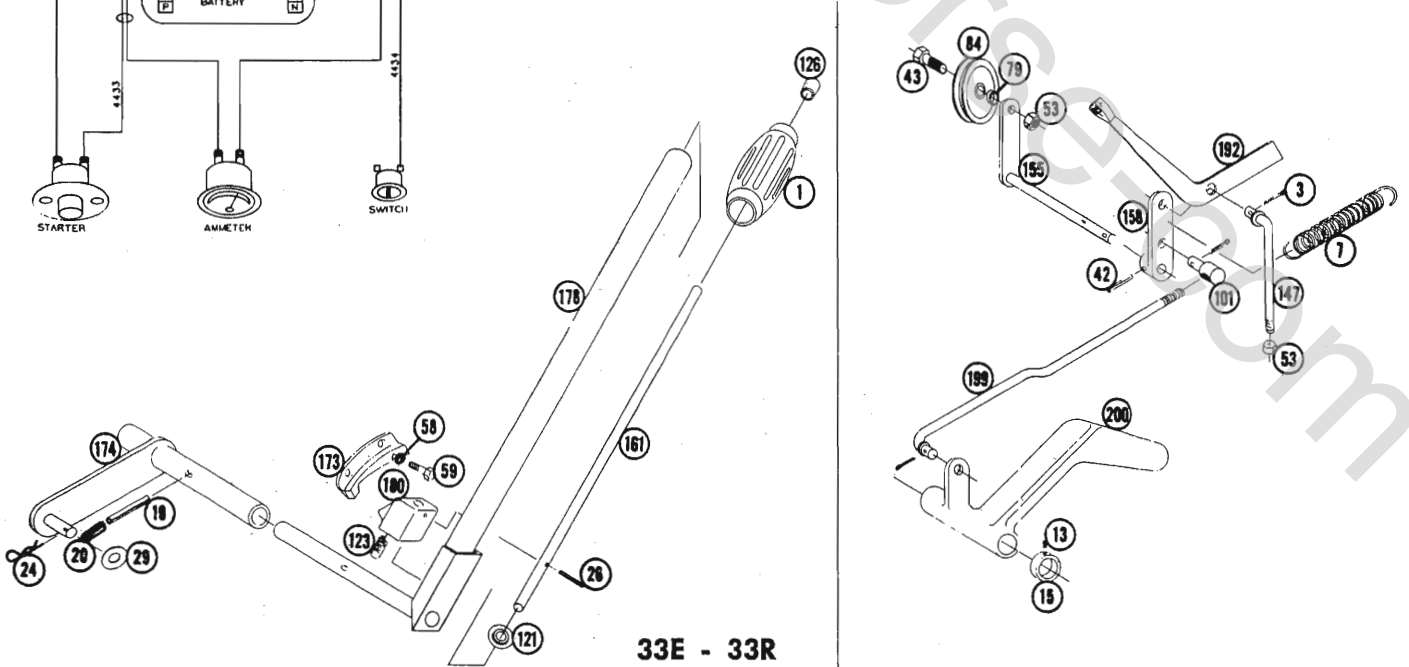
### Fender & Hood Ass'y.



### Wiring for 33E

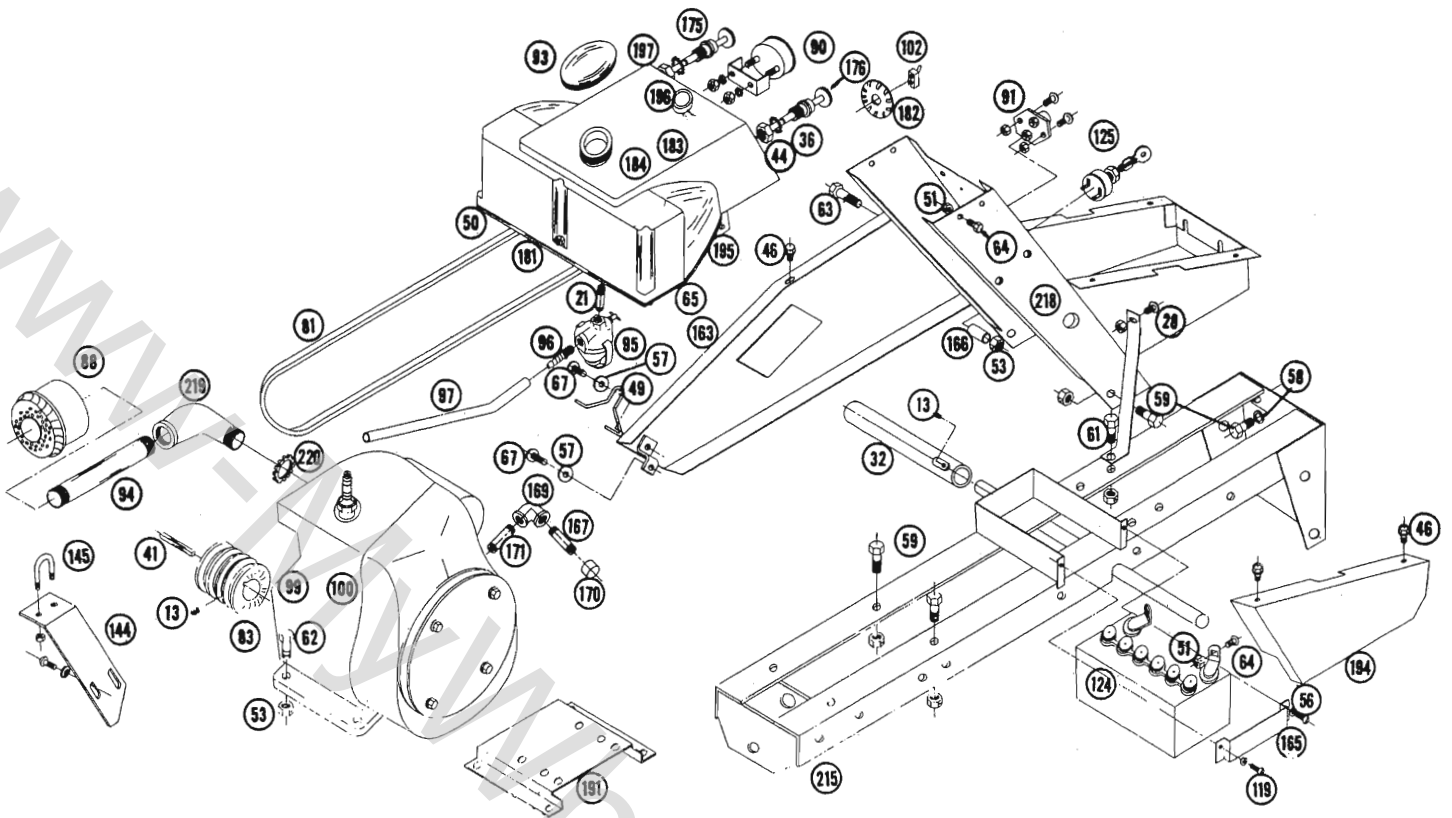


### Lift & Brake Ass'y.

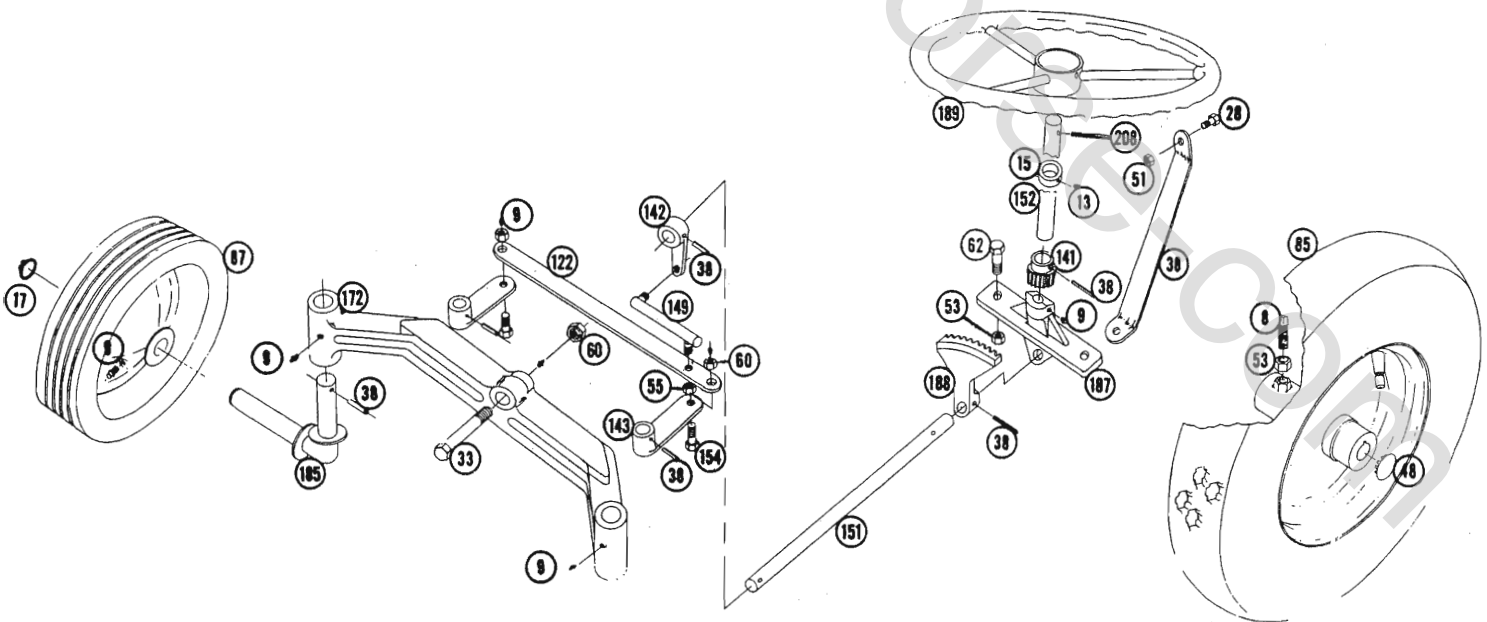


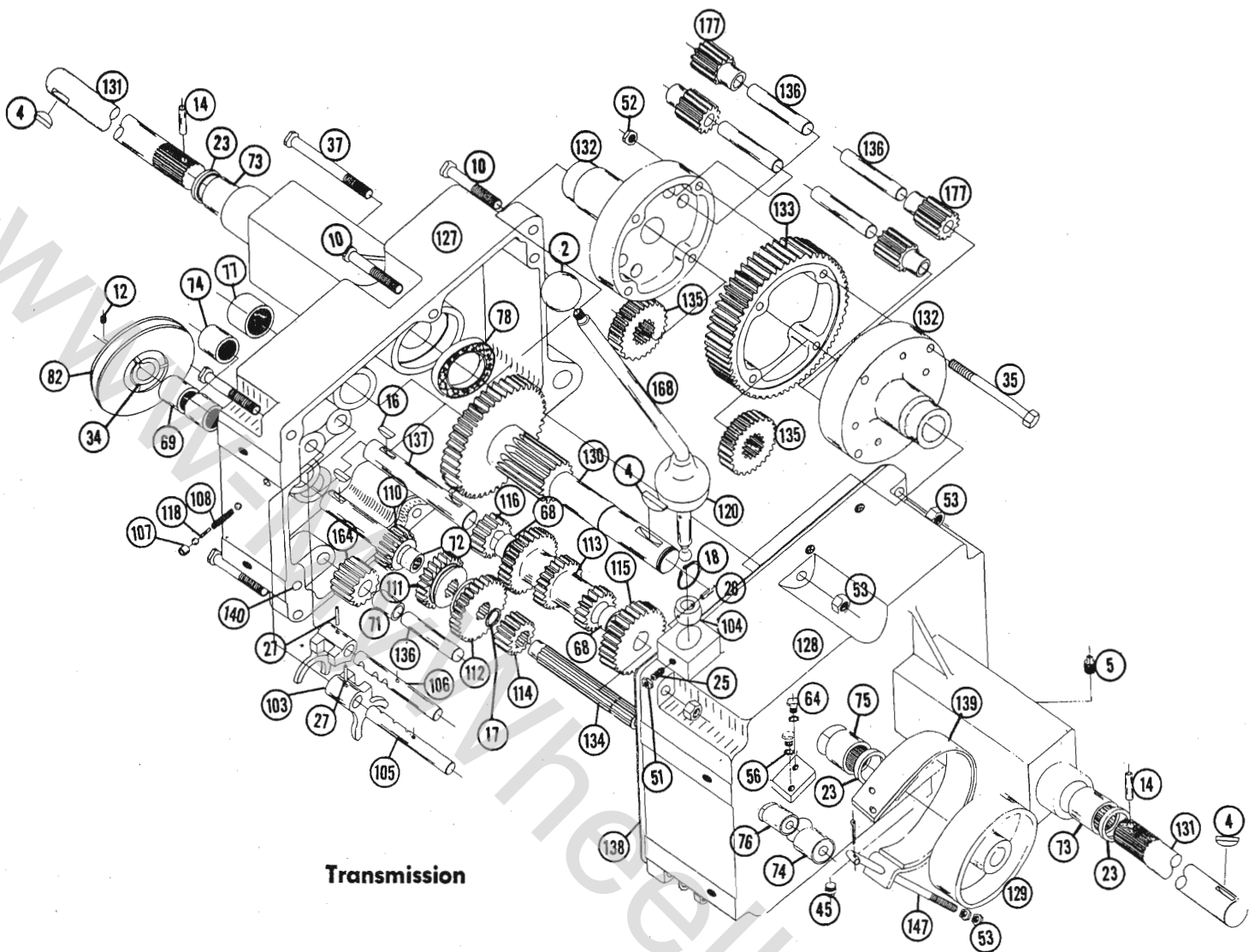
33E - 33R

# Main Frame Ass'y.



# Steering & Wheel Ass'y.





**Transmission**

**PARTS LIST for MODELS 33R and 33E RIDING ROTARY MOWER**

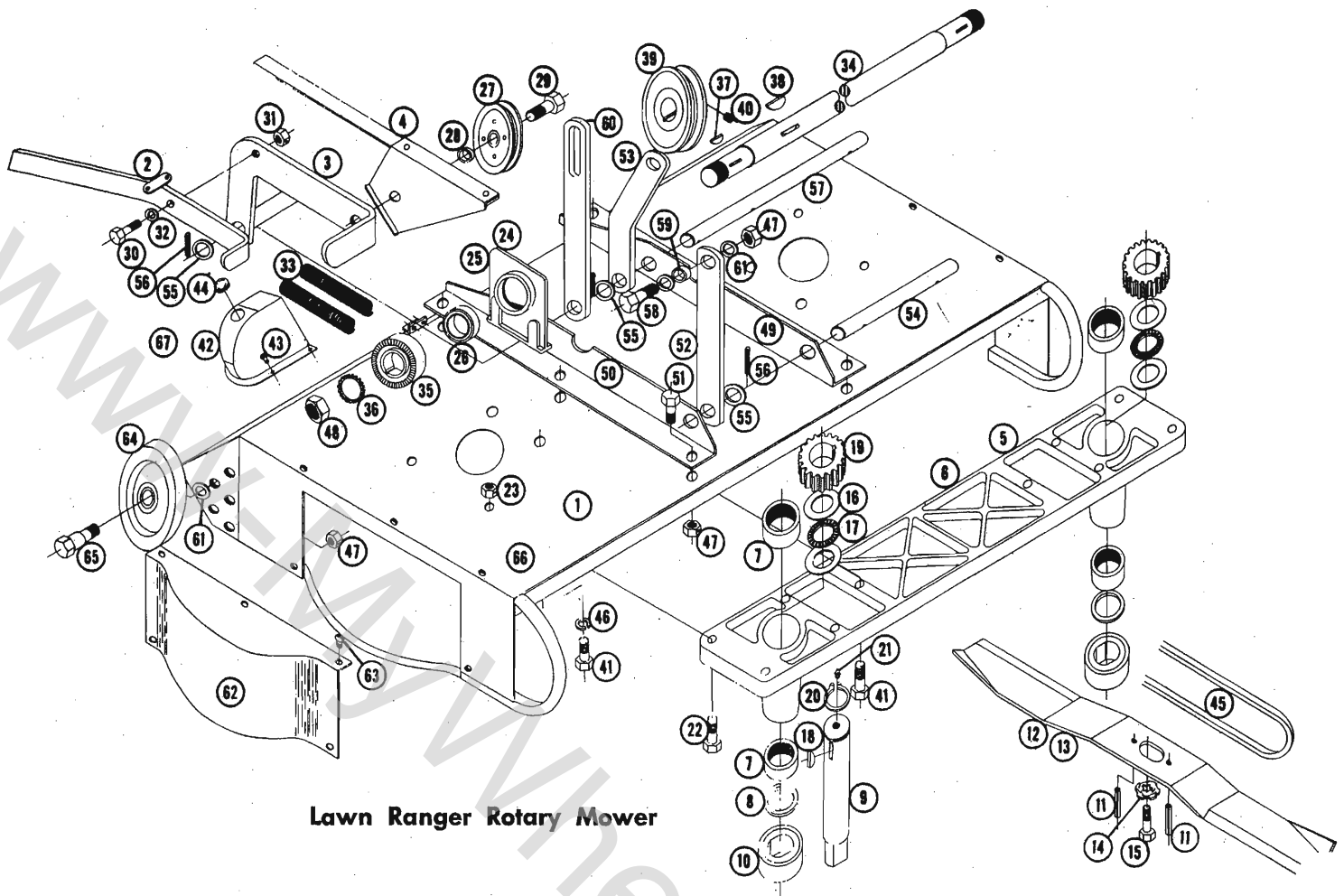
When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Name	Quantity	Ref. No.	Part No.	Name	Quantity
1	1000	Handle Grip	1	35	1329	3/16-18 x 3 1/4 Hex Hd. Cap Screw	4
2	1001	Knob	1	36	1331	3/16 Shakeproof Washer	2
3	1002	1/8 x 1 Cotter Key	5	37	1339	3/8-16 x 3 1/2 Hex Hd. Cap Screw	1
4	1008	No. 15 Woodruff Key	3	38	1340	1/4 x 1 1/4 Roll Pin	5
5	1013	1/4 Std. Pipe Plug	1	39	1345	1/4-20 x 1 3/16 Thumb Screw	2
7	1014	Tension Spring	2	40	1346	1/4-20 x 1 3/16 Thumb Screw	1
8	1023	Square Head Set Screw	2	41	1349	1/4 x 1/4 x 1 1/2 Key	1
9	1030	Grease Fitting	6	42	1350	1/8 x 1/4 Roll Pin	1
10	1032	3/8-16 x 2 Hex Hd. Cap Screw	5	43	1363	3/8-16 x 7/8 Hex Hd. Cap Screw	1
12	1042	3/16-18 x 3/16 Socket Hd. Set Screw	1	44	1364	3/16 Round Nut	2
13	1066	1/4-20 x 1/4 Socket Hd. Set Screw	1	45	1384	3/8 Std. Pipe Plug	1
14	1081	1/4 x 1 1/2 Roll Pin	3	46	1385	1/4-20 x 1/2 Keps Screw	4
15	1085	3/4 I.D. Shaft Collar	2	47	1483	Decal	1
16	1122	No. 9 Woodruff Key	3	48	4944	Plug-Wheel	2
17	1127	3/4 I.D. Snap Ring	1	49	4930	Belt Stop	1
18	1128	1 I.D. Snap Ring	1	50	4452	Gasket-Tank	1
19	1136	5/16 x 1 1/2 Roll Pin	1	51	1406	1/4-20 Hex Nylock Nut	4
20	1135	3/16 x 1 1/2 Roll Pin	1	52	1316	3/16-18 Hex Lock Nut	4
21	1192	1/8 Pipe Nip	1	53	1408	3/8-16 Hex Nylock Nut	21
22	1206	3/8-16 x 1 1/4 Sq. Hd. Cup Point Set Screw	2	54	1410	1/2-13 Hex Nylock Nut	1
23	1232	Oil Seal	3	55	1413	3/8-24 Hex Nylock Nut	1
24	1372	Hair Pin Cotter	1	56	1416	1/4 Split Lock Washer	4
25	1239	1/4-20 x 3/4 Dog Point Set Screw	1	57	1417	3/16 Split Lock Washer	2
26	1242	5/32 x 1 3/16 Roll Pin	1	58	1418	3/8 Split Lock Washer	4
27	1244	1/8 x 1 Roll Pin	2	59	1423	3/8-16 x 3/4 Hex Hd. Cap Screw	8
28	1262	1/4-20 x 3/4 Rd. Hd. Mach. Screw	4	60	1424	1/2-13 Hex Jam Nut	3
29	1434	3/8 SAE Washer	1	61	1425	3/8-16 x 1 Hex Hd. Cap Screw	2
30	1273	10-32 x 3/8 Mach. Screw	2	62	1426	3/8-16 x 1 1/4 Hex Hd. Cap Screw	6
31	1277	Wire Clip	2	63	1427	3/8-16 x 2 Hex Hd. Cap Screw	1
32	4912	Tube & Nut Ass'y.	1	64	1428	1/4-20 x 5/8 Hex Hd. Cap Screw	6
33	1287	1/2-13 x 2 1/4 Hex Hd. Cap Screw	1	65	1480	#8 x 5/8 Tapping Screw	15
34	1303	Oil Seal	2	66	1430	1/2-13 x 1 1/4 Carriage Hd. Bolt	1
				67	1432	5/16-24 x 1/2 Rd. Hd. Mach. Screw	2

## PARTS LIST for MODELS 33R and 33E RIDING ROTARY MOWER

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Name	Quantity	Ref. No.	Part No.	Name	Quantity
68	1504	Bushing	2	141	3917	Bevel Pinion	1
69	1508	Needle Bearing	2	142	3918	Steering Pivot	1
71	1516	Bushing	1	143	3919	Steering Arm	2
72	1518	Needle Bearing	1	144	2297	Brace — Exhaust	1
73	1528	Needle Bearing	2	145	1240	U-Bolt	1
74	1529	Needle Bearing	2	147	3935	Brake Rod	1
75	1530	Needle Bearing	1	149	3940	Drag Link	1
76	1531	Needle Bearing	1	150	3587	Tool Box	1
77	1532	Needle Bearing	1	151	3944	Lower Steering Shaft	1
78	1533	Ball Bearing	2	152	3945	Upper Steering Shaft	1
79	1536	Idler Bushing	1	154	3949	Clevis Pin	2
81	1576	"V" Belt 70" A Section	1	155	3950	Idler Arm	1
82	1611	Pulley	1	156	3973	Seat	1
83	1621	Engine Pulley	1	157	3978	Seat Cushion	1
84	1623	Idler Pulley	1	158	3979	Pivot Brake	1
85	1664	Rear Wheel Ass'y.	2	159	3586	Fender R. H.	1
87	3080	Front Wheel Ass'y.	2	160	3585	Fender L. H.	1
88	1739	Tecumseh Muffler	1	161	4910	Upper Plunger Rod	1
90	1745	Ammeter	1	163	4915	Belt Guard	1
91	1751	Starter Button	1	164	4204	Reverse Idler Gear	1
93	3998	Gas Cap	1	165	4206	Battery Clamp	1
94	1754	3/4" Std. Pipe Nipple 5 1/2" Lg.	1	166	4211	Spacer	1
95	1786	Fuel Strainer	1	167	4213	1/4 x 3 Std. Pipe Nipple	1
96	1787	Straight Fitting	1	168	4440	Shift Stick	1
97	1796	Fuel Line	1	169	4216	1/4 Std. Pipe Elbow 90°	1
99	2638	Tecumseh 6 hp. Engine (Electric)	1	170	4217	Pipe Cap 1/4 Std.	1
100	2639	Tecumseh 6 hp. Engine (Recoil)	1	171	4218	1/4 x 1 1/4 Std. Pipe Nipple	1
101	1861	Rod Control Stud	1	172	4220	Front Axle	1
102	3279	Off-On Switch (33R)	1	173	4222	Quadrant	1
103	3503	Shift Fork	2	174	4907	Lift	1
104	3514	Shift Collar	1	175	4232	Throttle	1
105	3515	Front Shift Rail	1	176	4233	Choke	1
106	3516	Rear Shift Rail	1	177	4235	Differential Pinion Gear	4
107	3517	Ball Stop	2	178	4905	Lift Lever	1
108	3518	Spring Stop	1	180	4438	Lower Plunger Ass'y.	1
110	3522	Input Gear	1	181	4407	Tank Bottom	1
111	3523	Hi and 2nd Gear	1	182	4249	Hole Plug	1
112	3524	Low and Reverse Gear	1	183	4406	Fuel Tank	1
113	3525	Cluster Gear	1	184	4405	Fuel Tank Ass'y.	1
114	3526	Splined Pinion	1	185	4901	Front Spindle	2
115	3527	Reduction Gear	1	186	4410	Wheel Horse Decal	2
116	3528	Reduction Pinion	1	187	4412	Bottom Steering Support	1
117	3537	Seat Spring	1	188	4413	Steering Sector	1
118	3573	Shift Pin Stop	1	189	4414	Steering Wheel	1
119	1143	1/4-20 x 5/8 Button Head Screw	2	190	4415	Hood	1
120	3577	Boot	1	191	4416	Lawson Engine Base	1
121	3578	Plunger Guide	1	192	4417	Brake Set Lever	1
122	3605	Tie Rod	1	193	4418	Shift Decal	1
123	3624	Compression Spring	1	194	4419	Shield	1
124	3653	Battery	1	195	1466	Retainer	2
125	3656	Switch (33E)	1	196	1539	Bushing	1
126	3680	Plunger Cap	1	197	4422	Instrument Decal	1
127	3900	Transmission Case R.H.	1	199	4429	Clutch Rod	1
128	3901	Transmission Case L.H.	1	200	4430	Clutch Pedal	1
129	3902	Brake Drum	1	201	4431	Ground Switch to Coil Wire	1
130	3903	Brake Shaft Gear	1	202	4432	Starter Switch to Starter Wire	1
131	3904	Axle	2	203	4433	Battery to Starter Wire	1
132	3905	Differential Case	2	204	4434	Generator to Ammeter Wire	1
133	3906	Bull Gear	1	208	1227	3/8 x 1 3/8 Roll Pin	1
134	3907	Spline Shaft	1	209	3930	Hood Stand Channel Strut	2
135	3908	Axle Gear	2	215	4900	Frame Ass'y.	1
136	3909	Differential Pin	5	217	4904	Hitch	1
137	3910	Cluster Shaft	1	218	4427	Hood Stand Channel Ass'y.	1
138	3912	Gasket	1	219	1755	Street El 90° 3/4" Std.	1
139	4437	Brake Band Ass'y.	1	220	1756	3/4" Lock Nut	1
140	3915	Locating Pin	2				



Lawn Ranger Rotary Mower

**33E - 33R PARTS LIST FOR LAWN RANGER ROTARY MOWER**

When Ordering Parts Always List Part Number and Name of Part.

Ref. No.	Part No.	Name	Quantity
1	4917	Deck	1
2	4924	Clutch Latch	1
3	4927	Clutch Pedal	1
4	4931	Shield	1
5	4151	Twin Housing & Bearings	1
6	3726	Housing	1
7	1508	Bearing	2
8	1303	Oil Seal	4
9	3724	Spindle	2
10	3716	Cup	2
11	1382	Pin - Roll $\frac{1}{4} \times \frac{3}{4}$	4
12	3718	Blade - Rotary - R.H.	1
13	3719	Blade - Rotary - L.H.	1
14	1336	Washer - Dome	2
15	1398	Screw - Hex - Nylock $\frac{3}{8} - 16 \times \frac{7}{8}$	2
16	1535	Race - Bearing Thrust	4
17	1534	Bearing - Thrust	2
18	1194	Key #5	2
19	3131	Gear Spur	2
20	1127	Snap Ring	2
21	1030	Fitting - Grease	2
22	1443	Hex. H. Cap Screw $\frac{3}{16} \times 18 - \frac{3}{4}$	4
23	1407	Hex. Hd. Nut Nylock $\frac{3}{16} \times 18$	4
24	4150	Ass'y. Housing - Cross Shaft	2
25	3138	Housing	1
26	1515	Bearing	1
27	1623	Pulley Idler	1
28	1536	Bushing - Idler	1
29	1363	Bolt - Hex $\frac{3}{8} - 16 \times \frac{1}{8}$ CP	1
30	1439	Bolt $\frac{1}{4} - 20 \times 1$ CP	1
31	1406	Nut - Nylock $\frac{1}{4} - 20$	1
32	1436	Washer - $\frac{1}{4}$ SAE CP	1
33	1486	Spring - Clutch	2
34	3715	Shaft	1

Ref. No.	Part No.	Name	Quantity
35	3130	Gear - Face	2
36	1185	Washer - Lock $\frac{5}{16}$	2
37	1194	Key - Woodruff #5	2
38	1122	Key - Woodruff #9 Pulley	1
39	1613	Pulley $3\frac{1}{2}$ Dia.	1
40	1042	Screw - Set $\frac{5}{16} - 18 \times \frac{5}{16}$	1
41	1426	Bolt - Hex $\frac{3}{8} - 16 \times 1\frac{1}{4}$	6
42	3141	Cover - Gear	2
43	1304	Screw - Hex Hd. #8 - $32 \times \frac{1}{4}$ Self Tap.	8
44	3757	Plug - Button	2
45	1587	Belt 43" A Section	1
46	1418	Washer - Lock $\frac{3}{8}$	4
47	1408	Nuts - Nylock $\frac{3}{8} - 16$	12
48	1343	Nut $\frac{3}{8} \times 18$	2
49	4935	Bracket - L.H.	1
50	4934	Bracket - R.H.	1
51	1423	Bolts $\frac{3}{8} - 16 \times \frac{3}{4}$	4
52	4940	Link - Front	2
53	4939	Link - Rear	2
54	4938	Rod - Front (Link Pivot)	1
55	1017	Washer $\frac{1}{2}$ SAE Plain	5
56	1002	Pin - Cotter $\frac{1}{8} \times 1$	5
57	4936	Rod - Rear (Link Pivot)	1
58	1425	Bolt $\frac{3}{8} - 16 \times 1$	4
59	4937	Spacer	4
60	4914	Bar - Lift	1
61	1434	Washer $\frac{3}{8}$ SAE Plain	4
62	3725	Cover - End Plate	2
63	1391	Screw - Rd. Hd. Mach. $\frac{1}{4} - 20 \times \frac{3}{8}$ (SEMS)	10
64	4121	Wheel - 6" Dia.	2
65	4177	Stud - Shoulder	2
66	1484	Decal (Caution)	2
67	3710	Decal	2

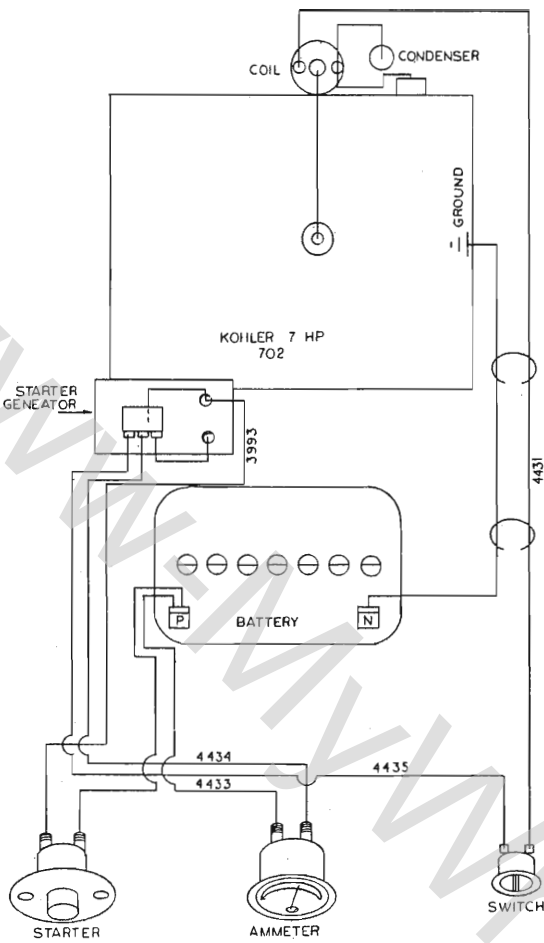


Figure 2—Wiring for 702

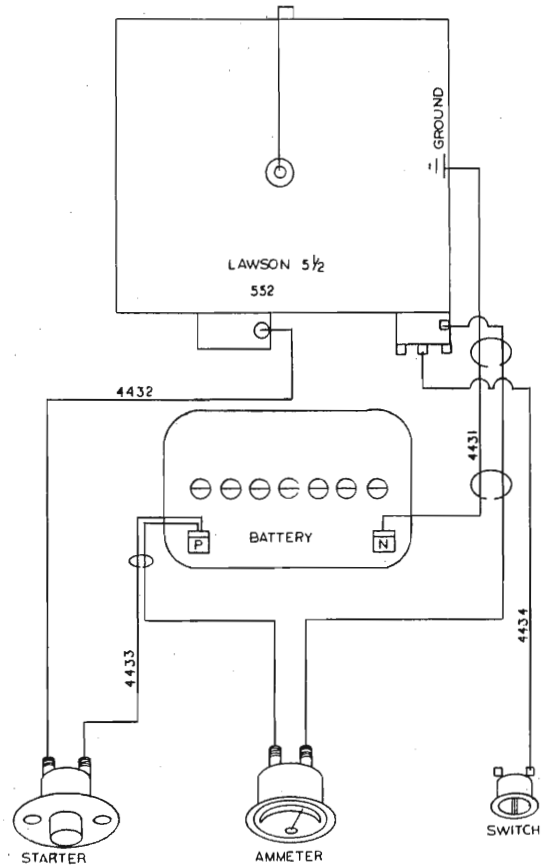
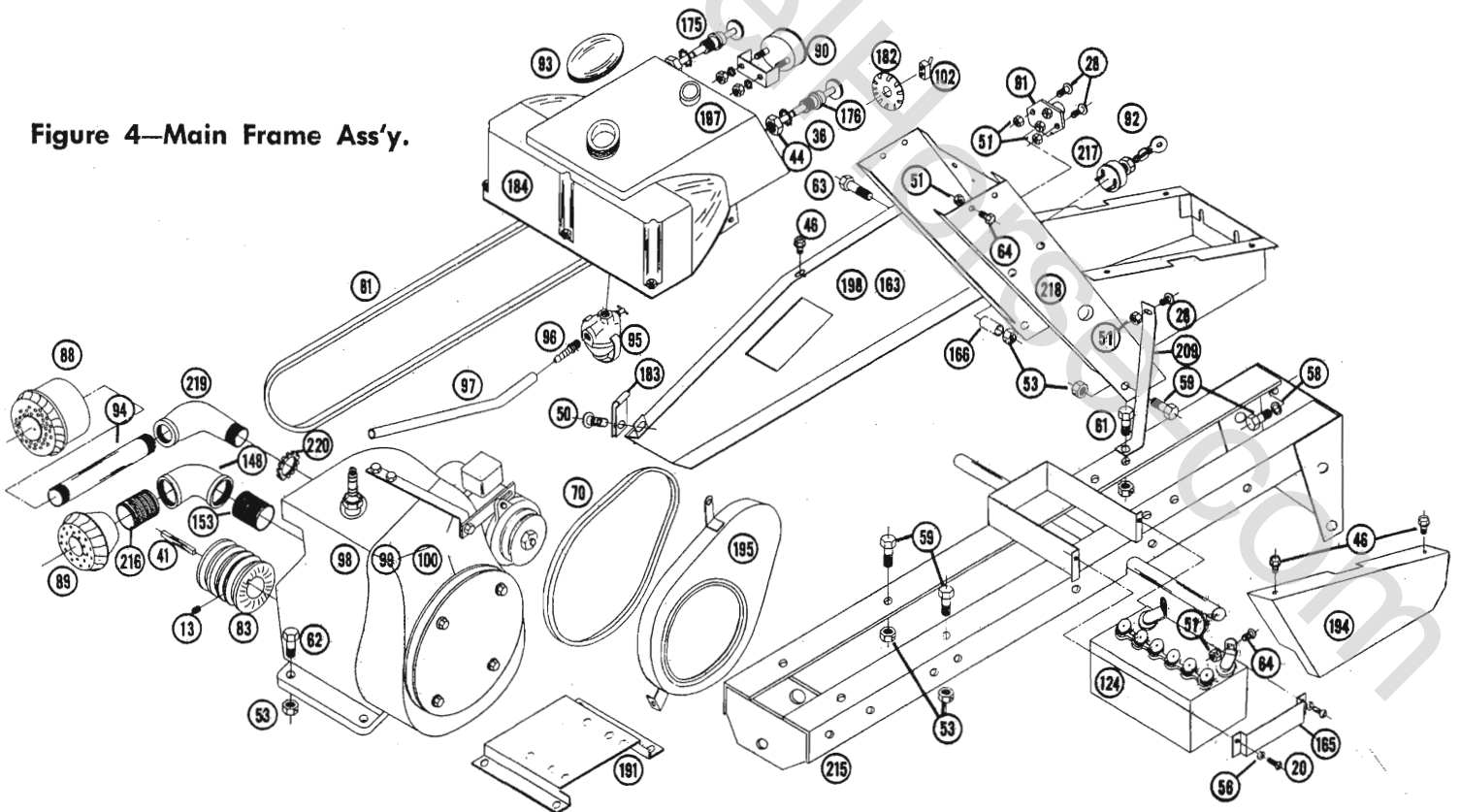


Figure 3—Wiring for 552

Figure 4—Main Frame Ass'y.



702 - 552 - 502



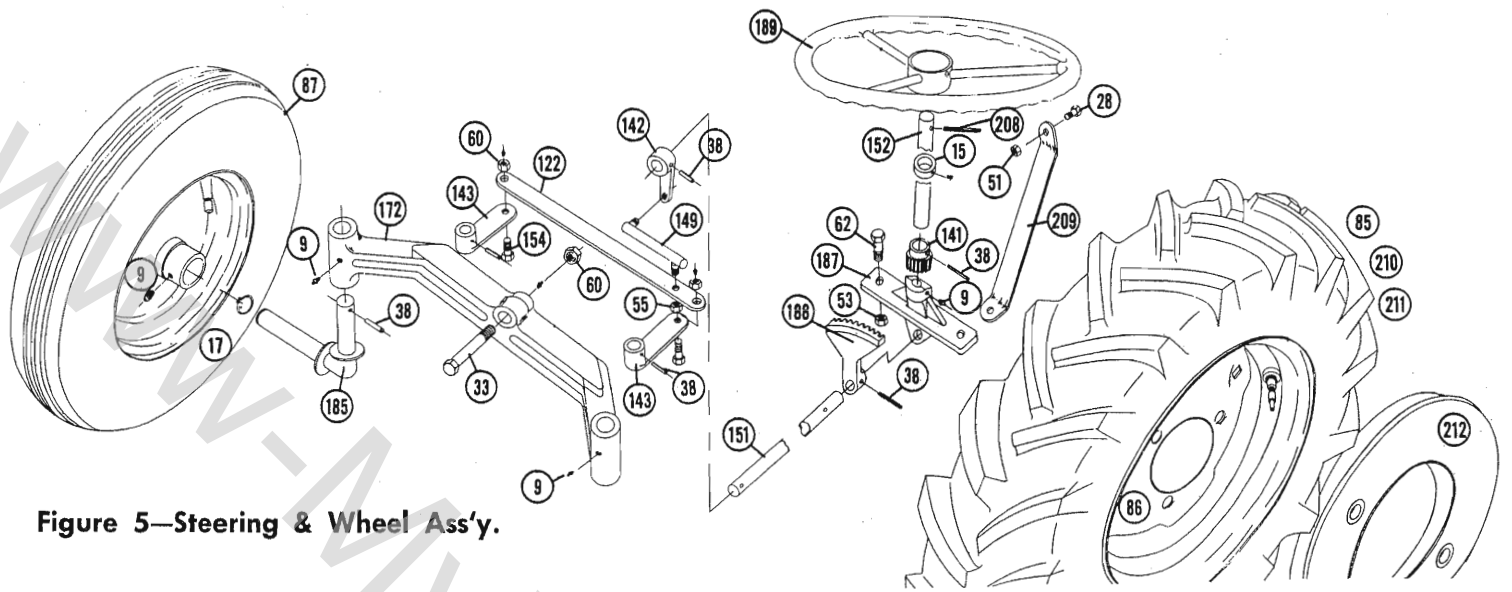


Figure 5—Steering & Wheel Ass'y.

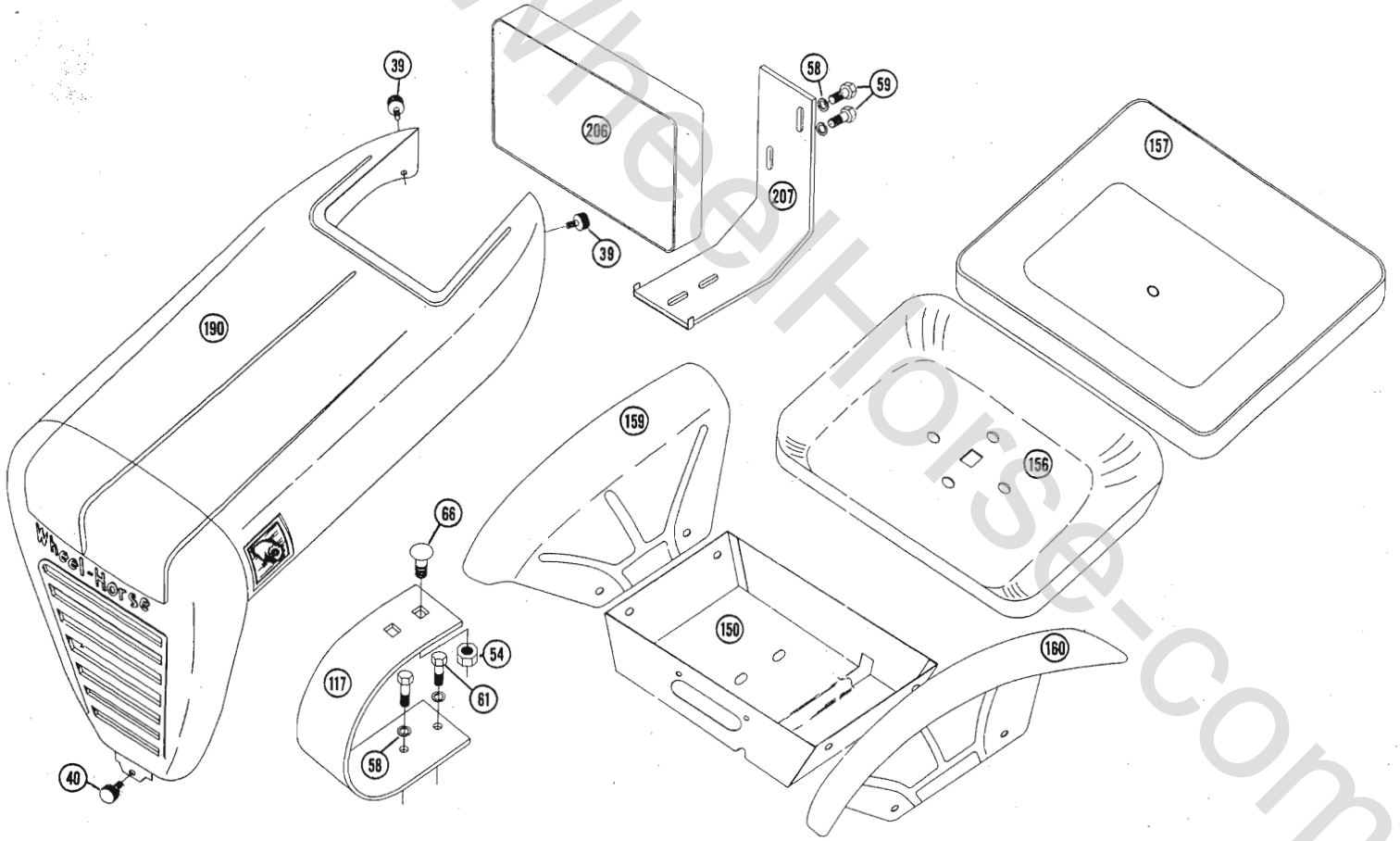


Figure 6—Fender & Hood Ass'y.

702 - 552 - 502

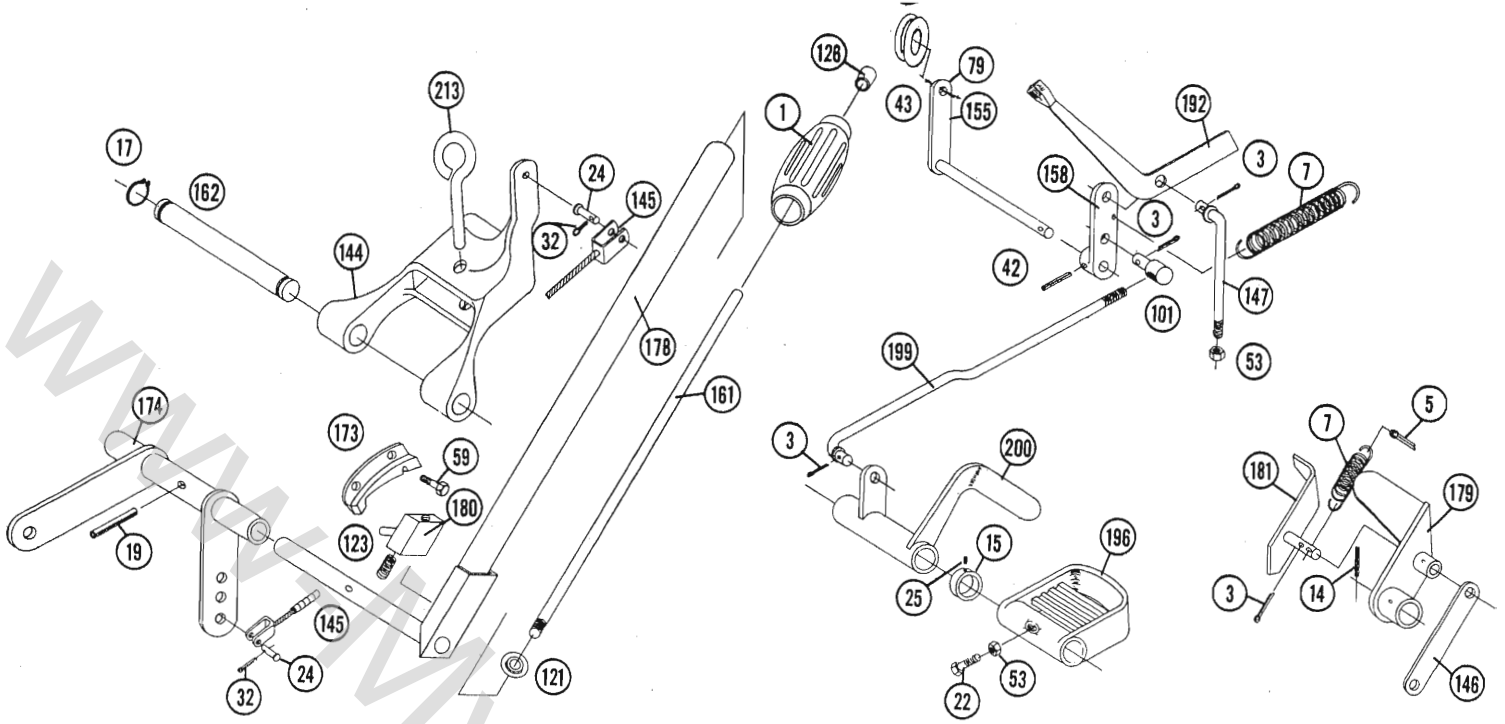


Figure 7—Lift & Brake Ass'y.

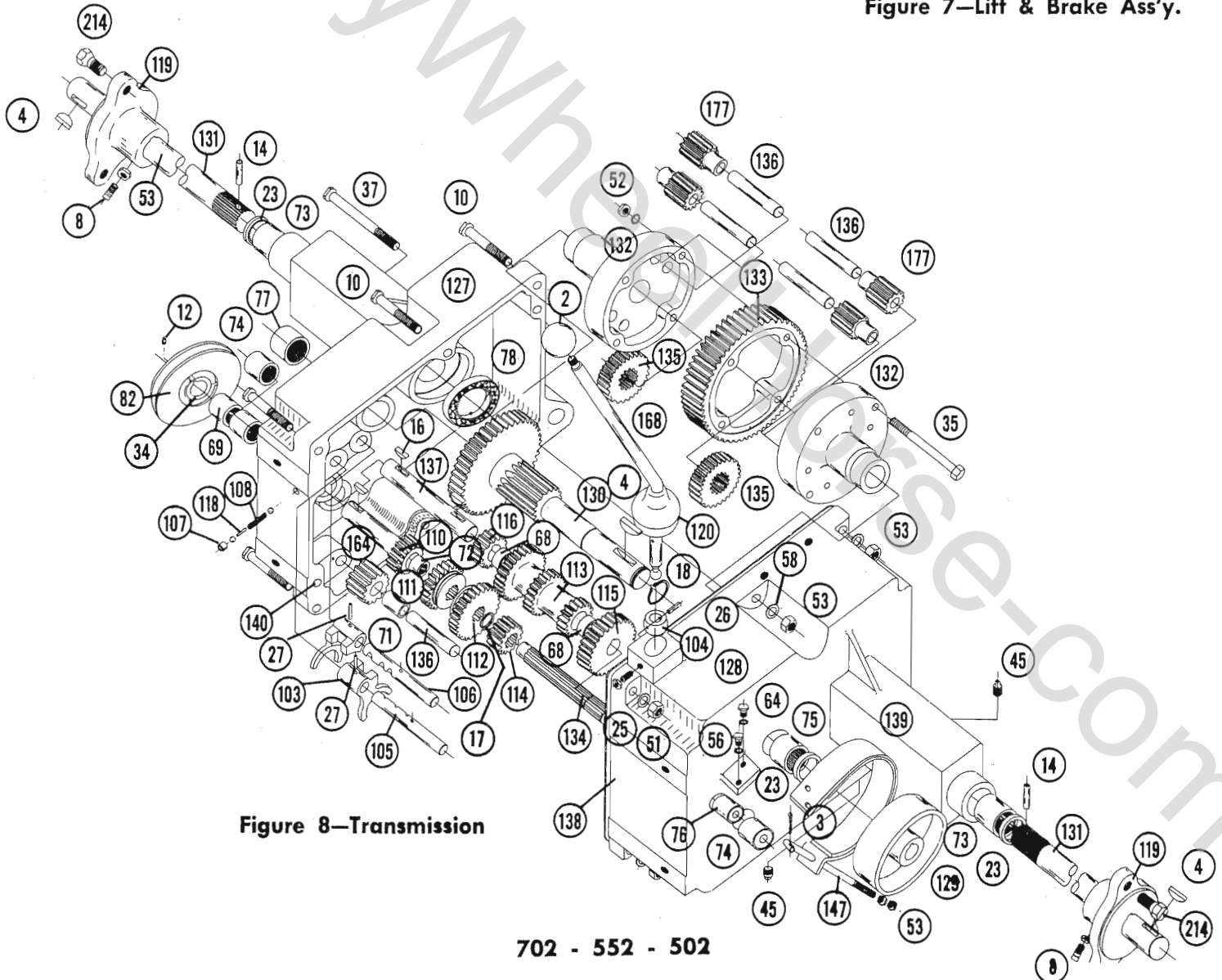


Figure 8—Transmission

702 - 552 - 502

# PARTS LIST for MODELS 502, 552 and 702 SUBURBAN TRACTORS

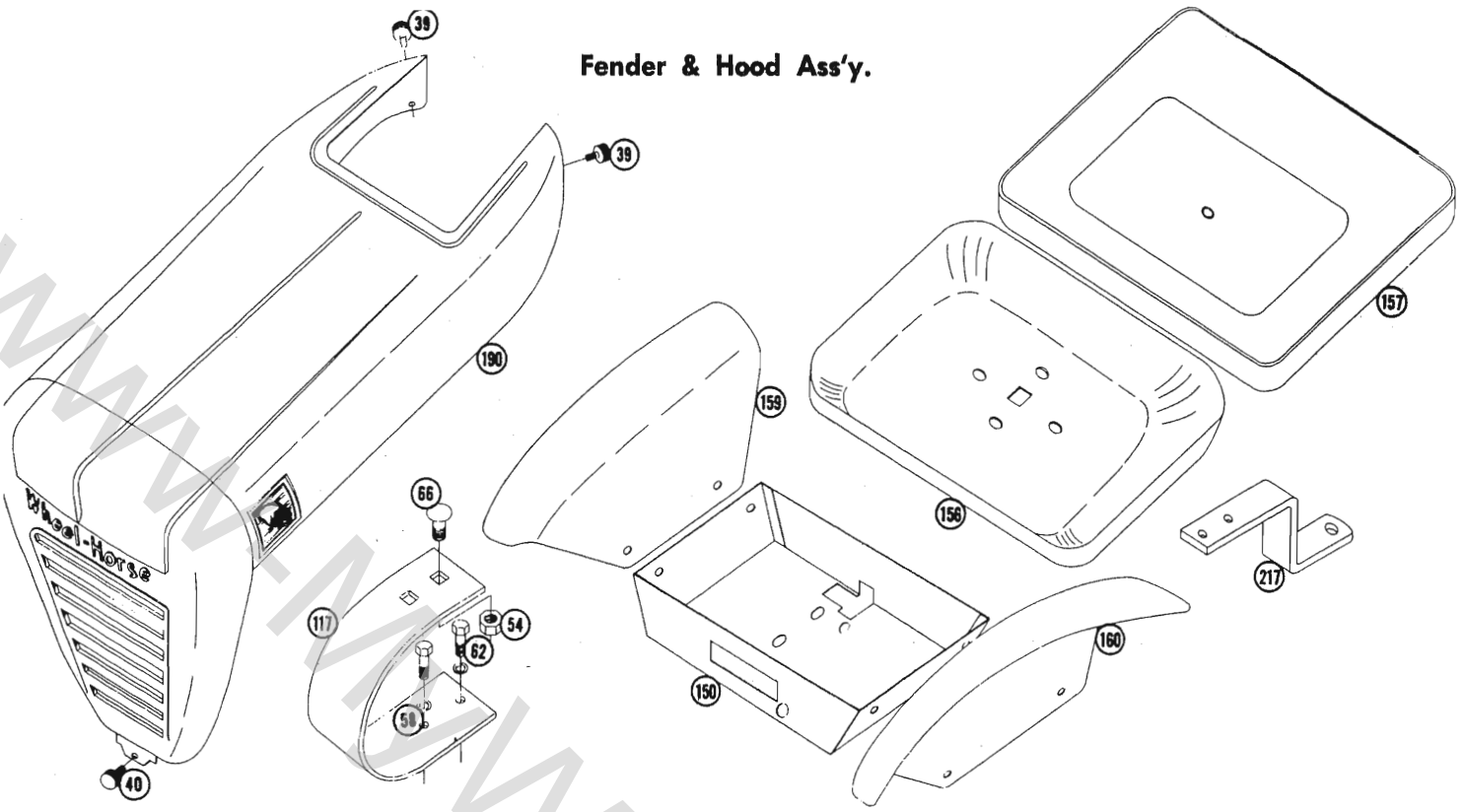
When ordering parts always list Part No., name of part, and Tractor Serial No. when available.

When more than one item is used on a tractor, only one Reference No. is used.

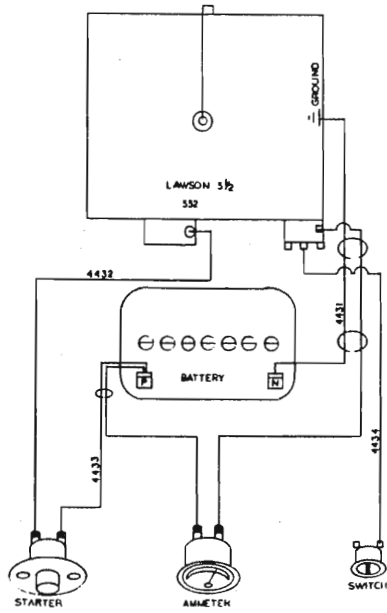
Ref. No.	Part No.	Description	No. Req.	Fig. No.	Ref. No.	Part No.	Description	No. Req.	Fig. No.
1	1000	Handle Grip	1	7	70	1583	"V" Belt Eng. to Gen.	1	4
2	1001	Knob	1	8	71	1516	Bushing	1	8
3	1002	1/8 x 1 Cotter Key	5	7	72	1518	Needle Bearing	1	8
4	1008	No. 15 Woodruff Key	3	8	73	1528	Needle Bearing	2	8
5	1012	3/16 x 1 Cotter Key	1	7	74	1529	Needle Bearing	2	8
7	1014	Tension Spring	2	7	75	1530	Needle Bearing	1	8
8	1023	Square Head Set Screw	2	8	76	1531	Needle Bearing	1	8
9	1030	Grease Fitting	6	5	77	1532	Needle Bearing	1	8
10	1032	3/8-16 x 2 Hex Hd. Cap Screw	5	8	78	1533	Ball Bearing	2	8
12	1042	3/16-18 x 5/16 Socket Hd. Set Screw	1	8	79	1536	Idler Bushing	1	7
13	1066	1/4-20 x 1/4 Socket Hd. Set Screw	1	4	80	1538	Needle Bearing	1	8
14	1081	1/4 x 1 1/2 Roll Pin	3	7	81	1576	"V" Belt 70" A Section	1	4
15	1085	3/4 I.D. Shaft Collar	2	7	82	1611	Pulley	1	8
16	1122	No. 9 Woodruff Key	3	8	83	1621	Engine Pulley	1	4
17	1127	3/4 I.D. Snap Ring	1	8	84	1623	Idler Pulley	1	7
18	1128	1 I.D. Snap Ring	1	8	85	1659	Rear Tire Ass'y.	2	5
19	1136	3/8 x 1 1/2 Roll Pin	1	7	86	1700	Rear Wheel Rim	2	5
20	1143	1/4-20 x 3/8 Button Hd. Mach. Screw	2	4	87	1709	Front Wheel Ass'y.	2	5
21	1146	Wire No. 16	1	3	88	1739	Lawson Muffler	1	4
22	1206	3/8-16 x 1 1/4 Sq. Hd. Cup Point Set Screw	2	7	89	1744	Kohler Muffler	1	4
23	1232	Oil Seal	3	8	90	1745	Ammeter	1	4
24	1235	Yoke Pin	2	7	91	1751	Starter Button	1	4
25	1239	1/4-20 x 3/4 Dog Point Set Screw	1	8	92	1752	Switch	1	4
26	1242	3/32 x 1 3/16 Roll Pin	1	8	93	1753	Gas Cap	1	4
27	1244	1/8 x 1 Roll Pin	2	8	94	1754	3/4" Std. Pipe Nipple 5 1/2" Lg.	1	4
28	1262	1/4-20 x 3/4 Rd. Hd. Mach. Screw	4	4	95	1786	Fuel Strainer	1	4
29	1271	1/4-20 x 3/8 Rd. Hd. Mach. Screw	1	8	96	1787	Straight Fitting	1	4
30	1273	10-32 x 3/8 Mach. Screw	2	4	97	1796	Fuel Line	1	4
31	1277	Wire Clip	2	100	98	1799	Kohler 7 hp. Engine	1	4
32	1285	1/8 x 3/8 Cotter Key	2	7	99	1800	Lawson 5 1/2 hp. Engine Electric	1	4
33	1287	1/2-13 x 2 3/4 Hex Hd. Cap Screw	1	5	100	1805	Lawson 5 1/2 hp. Engine	1	4
34	1303	Oil Seal	2	8	101	1861	Rod Control Stud	1	7
35	1329	3/16-18 x 3 1/4 Hex Hd. Cap Screw	4	8	102	3279	Off-On Switch (502)	1	5
36	1331	3/16 Shakeproof Washer	2	4	103	3503	Shift Fork	2	8
37	1339	3/8-16 x 3 1/2 Hex Hd. Cap Screw	1	8	104	3514	Shift Collar	1	8
38	1340	1/4 x 1 1/4 Roll Pin	5	5	105	3515	Front Shift Rail	1	8
39	1345	1/4-20 x 1 3/16 Thumb Screw	2	6	106	3516	Rear Shift Rail	1	8
40	1346	1/4-20 x 1 3/16 Thumb Screw	1	6	107	3517	Ball Stop	2	8
41	1349	1/4 x 1 1/4 x 1 1/2 Key	1	4	108	3518	Spring Stop	1	8
42	1350	1/8 x 1 1/4 Roll Pin	1	7	110	3522	Input Gear	1	8
43	1363	3/8-16 x 3/8 x Hex Hd. Cap Screw	1	7	111	3523	Hi and 2nd Gear	1	8
44	1364	3/16 Round Nut	2	4	112	3524	Low and Reverse Gear	1	8
45	1384	3/8 Std. Pipe Plug	2	8	113	3525	Cluster Gear	1	8
46	1385	1/4-20 x 1/2 Keps Screw	4	4	114	3526	Splined Pinion	1	8
47	1399	Decal 502	1	115	3527	Reduction Gear	1	8	
48	1400	Decal 552	1	116	3528	Reduction Pinion	1	8	
49	1401	Decal 702	1	117	3537	Seat Spring	1	6	
50	1405	3/8-16 x 1/2 Rd. Hd. Mach. Screw	2	4	118	3573	Shift Pin Stop	1	8
51	1406	1/4-20 Hex Nylock Nut	4	5	119	3574	Wheel Hub	2	8
52	1407	3/16-18 Hex Nylock Nut	4	8	120	3577	Boot	1	8
53	1408	3/8-16 Hex Nylock Nut	10	4	121	3578	Plunger Guide	1	7
54	1410	1/2-13 Hex Nylock Nut	1	6	122	3605	Tie Rod	1	5
55	1413	3/8-24 Hex Nylock Nut	1	5	123	3624	Compression Spring	1	7
56	1416	1/4 Split Lock Washer	5	4	124	3653	Battery	1	4
57	1417	3/16 Split Lock Washer	2	5	125	3656	Switch (552)	1	4
58	1418	3/8 Split Lock Washer	11	8	126	3680	Plunger Cap	1	7
59	1423	3/8-16 x 3/4 Hex Hd. Cap Screw	8	4	127	3900	Transmission Case R.H.	1	8
60	1424	1/2-13 Hex Jam Nut	3	5	128	3901	Transmission Case L.H.	1	8
61	1425	3/8-16 x 1 Hex Hd. Cap Screw	4	4	129	3902	Brake Drum	1	8
62	1426	3/8-16 x 1 1/4 x Hex Hd. Cap Screw	4	5	130	3903	Brake Shaft Gear	1	8
63	1427	3/8-16 x 2 Hex Hd. Cap Screw	1	4	131	3904	Axle	2	8
64	1428	1/4-20 x 5/8 Hex Hd. Cap Screw	6	4	132	3905	Differential Case	2	8
65	1429	10-32 Lock Nut	2	4	133	3906	Bull Gear	1	8
66	1430	1/2-13 x 1 1/4 Carriage Hd. Bolt	1	6	134	3907	Spline Shaft	1	8
67	1432	3/16-24 x 1/2 Rd. Hd. Mach. Screw	2	4	135	3908	Axle Gear	2	8
68	1504	Bushing	2	8	136	3909	Differential Pin	5	8
69	1508	Needle Bearing	2	8	137	3910	Cluster Shaft	1	8
					138	3912	Gasket	1	8
					139	4437	Brake Band Ass'y.	1	8

Ref. No.	Part No.	Description	No. Req.	Fig. No.	Ref. No.	Part No.	Description	No. Req.	Fig. No.
140	3915	Locating Pin	2	8	181	4246	Trip Lever Ass'y.	1	7
141	3917	Bevel Pinion	1	5	182	4249	Hole Plug	1	4
142	3918	Steering Pivot	1	5	183	4256	Clip	1	4
143	3919	Steering Arm	2	5	184	4405	Fuel Tank	1	4
144	3926	Tractor Hitch	1	7	185	4408	Front Spindle	2	5
145	3931	Lift Cable	1	7	186	4410	Wheel Horse Decal	2	
146	3933	Link	1	7	187	4412	Bottom Steering Support	1	5
147	3935	Brake Rod	1	7	188	4413	Steering Sector	1	5
148	3939	1" Std. Pipe Elbow 45°	1	4	189	4414	Steering Wheel	1	5
149	3940	Drag Link	1	5	190	4415	Hood	1	6
150	4402	Tool Box	1	6	191	4416	Lawson Engine Base	1	4
151	3944	Lower Steering Shaft	1	5	192	4417	Brake Set Lever	1	7
152	3945	Upper Steering Shaft	1	5	193	4418	Shift Decal	1	
153	3948	1" Nipple 2" Long	1	4	194	4419	Shield	1	4
154	3949	Clevis Pin	2	5	195	4420	Belt Guard	1	4
155	3950	Idle Arm	1	7	196	4421	Foot Rest	2	7
156	3973	Seat	1	6	197	4422	Instrument Decal	1	4
157	3978	Seat Cushion	1	6	198	4423	Belt Guard	1	4
158	3979	Pivot Brake	1	7	199	4429	Clutch Rod	1	7
159	3983	Fender R. H.	1	6	200	4430	Clutch Pedal	1	7
160	3984	Fender L. H.	1	6	201	4431	Ground Switch to Coil Wire	1	2-3
161	3987	Upper Plunger Rod	1	7	202	4432	Starter Switch to Starter Wire	1	2-3
162	3988	Tractor Hitch Pin	1	7	203	4433	Battery to Starter Wire	1	2-3
163	4202	Belt Guard	1	4	204	4434	Generator to Ammeter Wire	1	2-3
164	4204	Reverse Idle Gear	1	8	205	4435	Switch to Regulator Wire	1	2-3
165	4206	Battery Clamp	1	4	206	3678	Seat Back (optional)		6
166	4211	Spacer	1	4	207	3678	Seat Back Spring (optional)		6
167	4213	1/2 x 3 Std. Pipe Nipple	1		208	1227	3/16 x 1 3/4 Roll Pin	1	5
168	4215	Shift Stick	1	8	209	3930	Hood Stand Channel Strut	2	5
169	4216	1/4 Std. Pipe Elbow 90°	1		210	1659	All Purpose Tire 6 x 12	2	5
170	4217	Pipe Cap 1/4 Std.	1		211	1650	Cleat Tire 6 x 12		5
171	4218	1/4 x 1 1/4 Std. Pipe Nipple	1		212	1711	Rear Wheel Weight (optional)		5
172	4220	Front Axle	1	5	213	1813	Tool Pin	1	7
173	4222	Quadrant	1	7	214	1004	Wheel Bolt	6	8
174	4231	Lift	1	7	215	4401	Frame Ass'y.	1	4
175	4232	Throttle	1	4	216	3947	Close Nipple 1" Std. Pipe	1	4
176	4233	Choke	1	4	217	1747	Switch (702)	1	4
177	4235	Differential Pinion Gear	4	8	218	4427	Hood Stand Channel Ass'y.	1	4
178	4238	Lift Lever	1	7	219	1755	Street El 90° 3/4" Std.	1	4
179	4239	Clutch Pedal	1	7	220	1756	1" Lock Nut (Kohler 702)	1	4
180	4243	Lower Plunger Ass'y.	1	7					

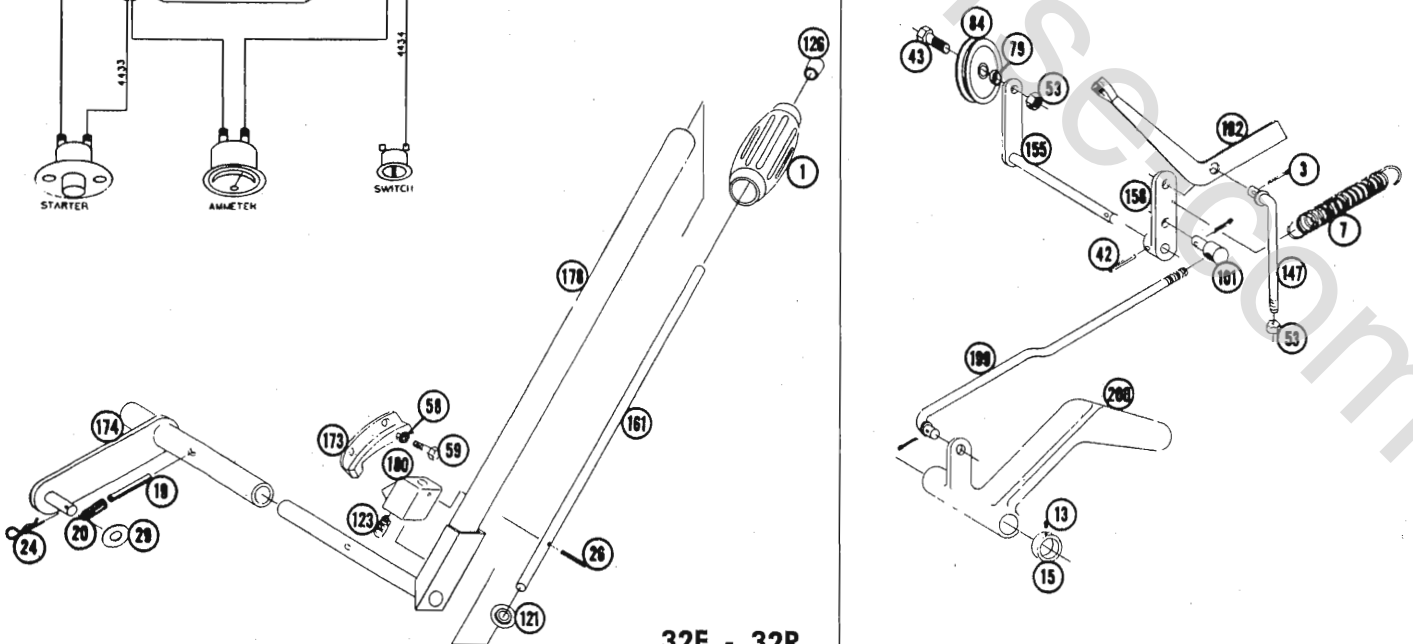
Fender & Hood Ass'y.



Wiring for 32E

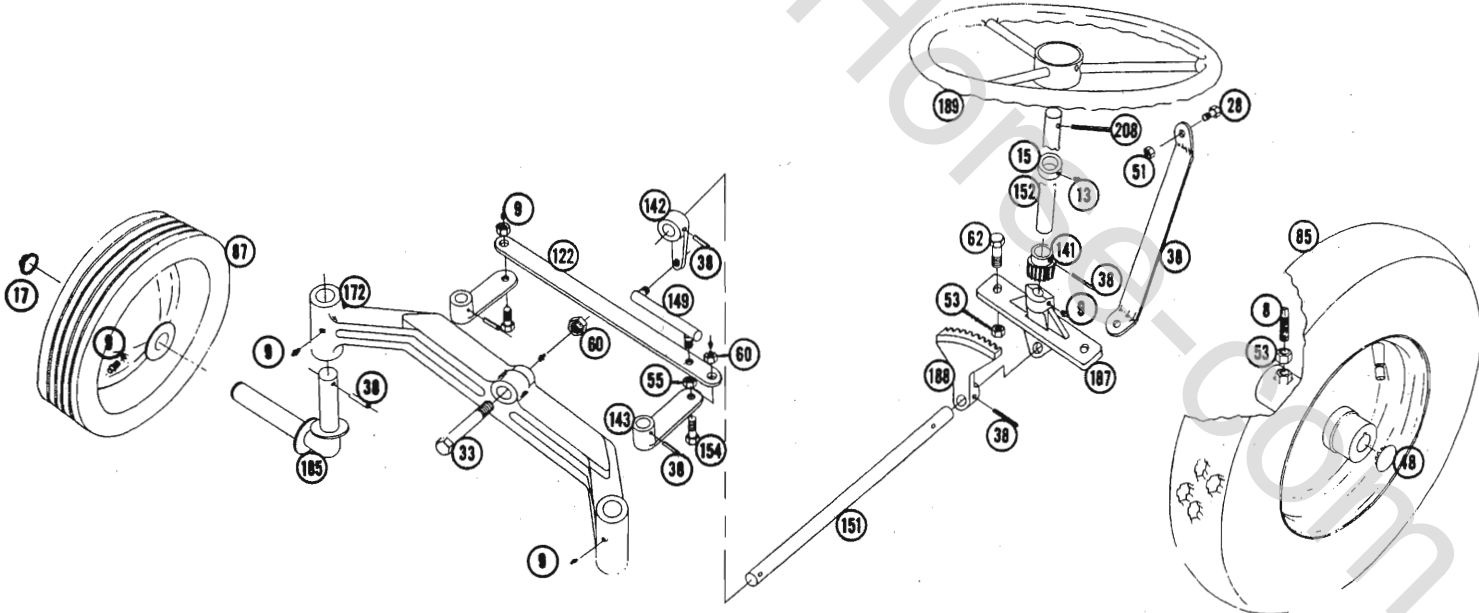
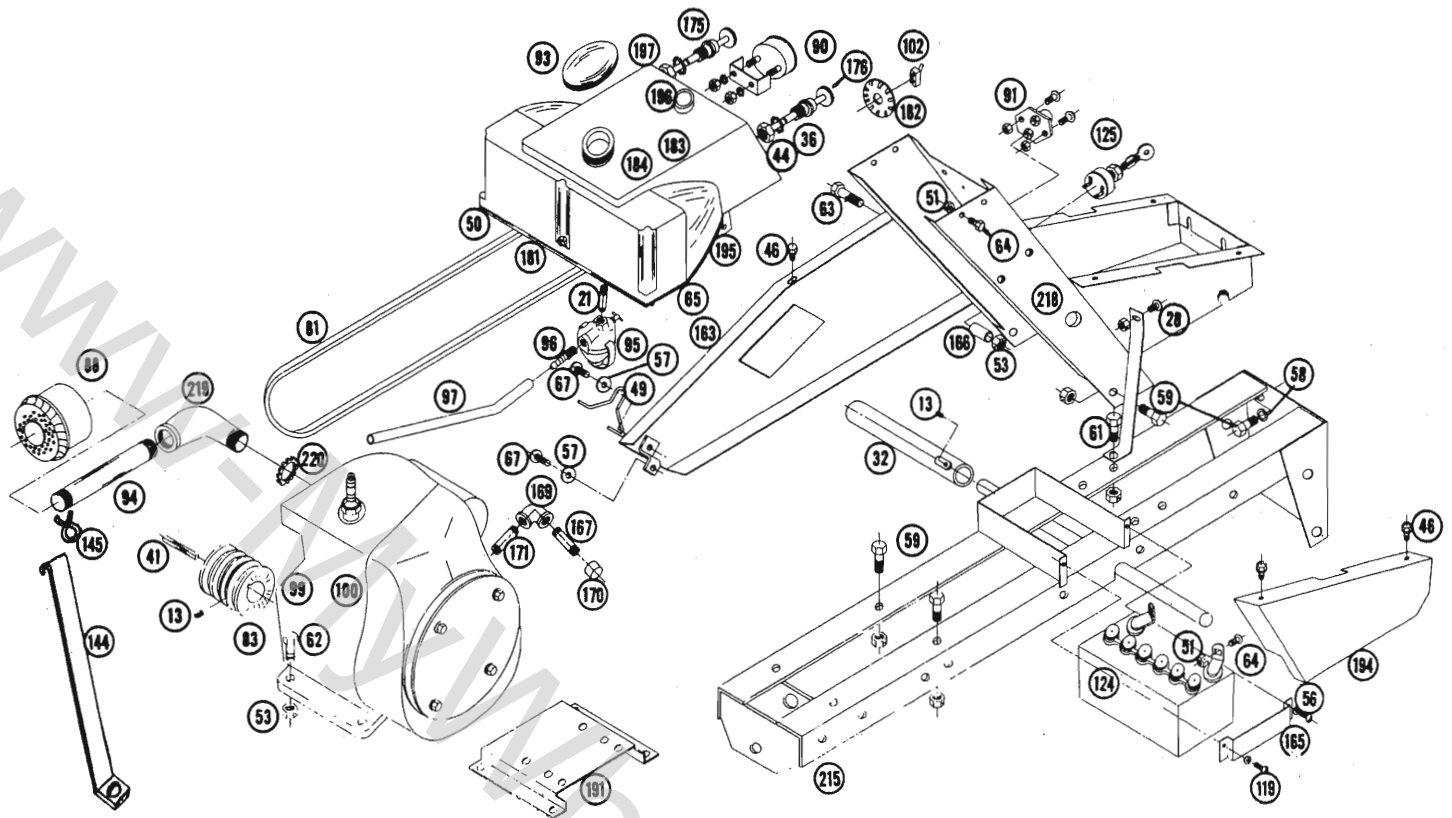


Lift & Brake Ass'y.

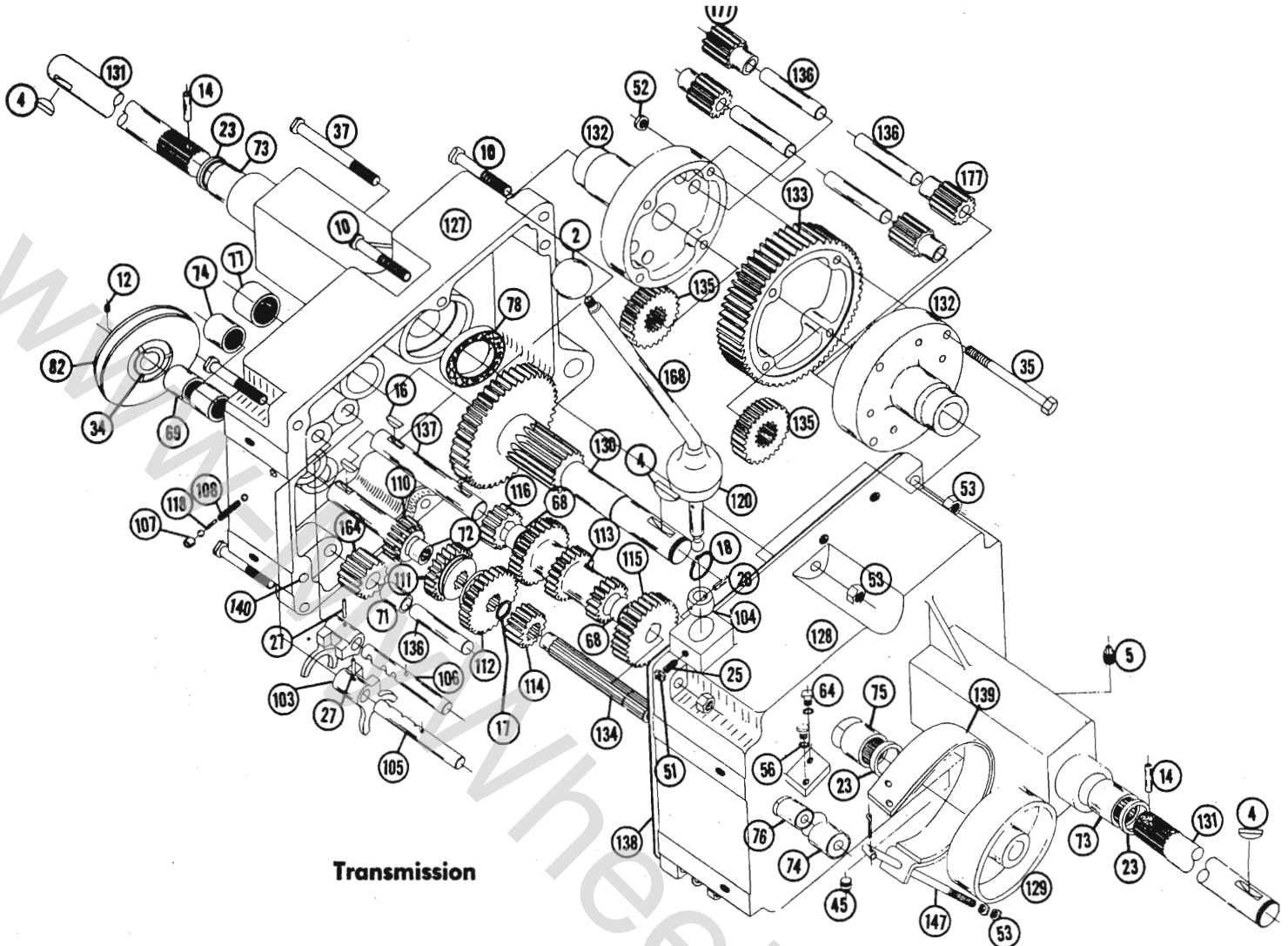


32E - 32R

# Main Frame Ass'y.



# 32E - 32R Steering & Wheel Ass'y.



### PARTS LIST for MODELS 32R and 32E RIDING ROTARY MOWER

When ordering parts always list Part No. and name of part.

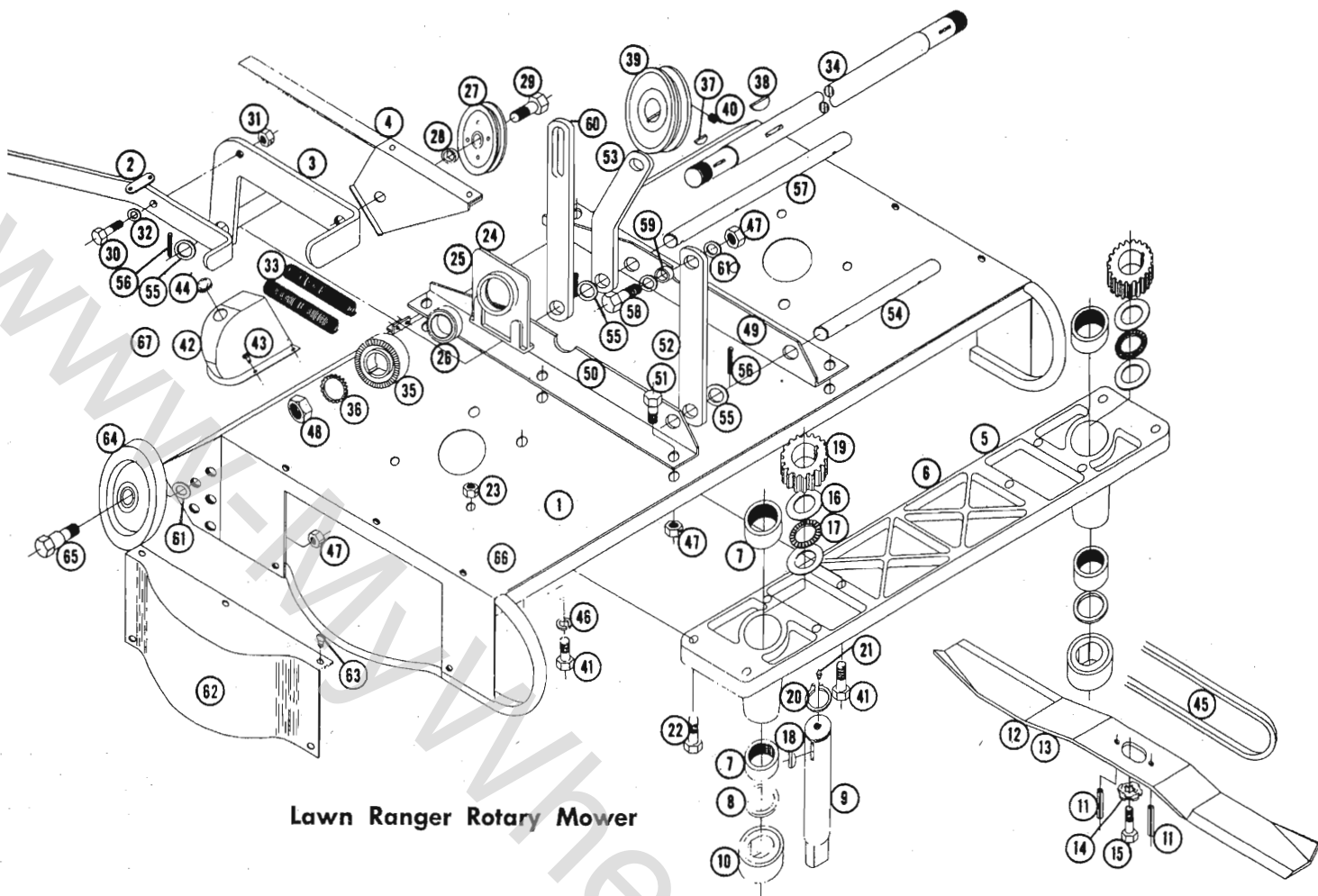
Ref. No.	Part No.	Name	Quantity	Ref. No.	Part No.	Name	Quantity
1	1000	Handle Grip	1	35	1329	5/16-18 x 3 1/4 Hex Hd. Cap Screw	4
2	1001	Knob	1	36	1331	3/8 Shakeproof Washer	2
3	1002	1/8 x 1 Cotter Key	5	37	1339	3/8-16 x 3 1/2 Hex Hd. Cap Screw	1
4	1008	No. 15 Woodruff Key	3	38	1340	1/4 x 1 1/4 Roll Pin	5
5	1013	1/4 Std. Pipe Plug	1	39	1345	1/4-20 x 1 3/16 Thumb Screw	2
7	1014	Tension Spring	2	40	1346	1/4-20 x 1 3/16 Thumb Screw	1
8	1023	Square Head Set Screw	2	41	1349	1/4 x 1/4 x 1 1/2 Key	1
9	1030	Grease Fitting	6	42	1350	1/8 x 1 1/4 Roll Pin	1
10	1032	3/8-16 x 2 Hex Hd. Cap Screw	5	43	1363	3/8-16 x 7/8 Hex Hd. Cap Screw	1
12	1042	3/8-18 x 3/4 Socket Hd. Set Screw	1	44	1364	3/16 Round Nut	2
13	1066	1/4-20 x 1/4 Socket Hd. Set Screw	1	45	1384	3/8 Std. Pipe Plug	1
14	1081	1/4 x 1 1/2 Roll Pin	3	46	1385	1/4-20 x 1/2 Keps Screw	4
15	1085	3/4 I.D. Shaft Collar	2	47	1483	Decal	1
16	1122	No. 9 Woodruff Key	3	48	4944	Plug-Wheel	2
17	1127	3/4 I.D. Snap Ring	1	49	4930	Belt Stop	1
18	1128	1 I.D. Snap Ring	1	50	4452	Gasket-Tank	1
19	1136	5/16 x 1 1/2 Roll Pin	1	51	1406	1/4-20 Hex Nylock Nut	4
20	1135	3/8 x 1 1/2 Roll Pin	1	52	1316	3/8-18 Hex Lock Nut	4
21	1192	1/8 Pipe Nip	1	53	1408	3/8-16 Hex Nylock Nut	21
22	1206	3/8-16 x 1 1/4 Sq. Hd. Cup Point Set Screw	2	54	1410	1/2-13 Hex Nylock Nut	1
23	1232	Oil Seal	3	55	1413	3/8-24 Hex Nylock Nut	1
24	1372	Hair Pin Cotter	1	56	1416	1/4 Split Lock Washer	4
25	1239	1/4-20 x 3/4 Dog Point Set Screw	1	57	1417	3/16 Split Lock Washer	2
26	1242	5/32 x 1 3/16 Roll Pin	1	58	1418	3/8 Split Lock Washer	4
27	1244	1/8 x 1 Roll Pin	2	59	1423	3/8-16 x 3/4 Hex Hd. Cap Screw	8
28	1262	1/4-20 x 3/4 Rd. Hd. Mach. Screw	4	60	1424	1/2-13 Hex Jam Nut	3
29	1434	3/8 SAE Washer	1	61	1425	3/8-16 x 1 Hex Hd. Cap Screw	2
30	1273	10-32 x 3/4 Mach. Screw	2	62	1426	3/8-16 x 1 1/4 Hex Hd. Cap Screw	6
31	1277	Wire Clip	2	63	1427	3/8-16 x 2 Hex Hd. Cap Screw	1
32	4912	Tube & Nut Ass'y.	1	64	1428	1/4-20 x 5/8 Hex Hd. Cap Screw	6
33	1287	1/2-13 x 2 3/4 Hex Hd. Cap Screw	1	65	1480	#8 x 5/8 Tapping Screw	15
34	1303	Oil Seal	2	66	1430	1/2-13 x 1 1/4 Carriage Hd. Bolt	1
				67	1432	5/16-24 x 1/2 Rd. Hd. Mach. Screw	2

## PARTS LIST for MODELS 32R and 32E RIDING ROTARY MOWER

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Name	Quantity	Ref. No.	Part No.	Name	Quantity
68	1504	Bushing	2	141	3917	Bevel Pinion	1
69	1508	Needle Bearing	2	142	3918	Steering Pivot	1
71	1516	Bushing	1	143	3919	Steering Arm	2
72	1518	Needle Bearing	1	144	2288	Brace	1
73	1528	Needle Bearing	2	145	272853	Clamp	1
74	1529	Needle Bearing	2	147	3935	Brake Rod	1
75	1530	Needle Bearing	1	149	3940	Drag Link	1
76	1531	Needle Bearing	1	150	3587	Tool Box	1
77	1532	Needle Bearing	1	151	3944	Lower Steering Shaft	1
78	1533	Ball Bearing	2	152	3945	Upper Steering Shaft	1
79	1536	Idler Bushing	1	154	3949	Clevis Pin	2
81	1576	"V" Belt 70" A Section	1	155	3950	Idler Arm	1
82	1611	Pulley	1	156	3973	Seat	1
83	1621	Engine Pulley	1	157	3978	Seat Cushion	1
84	1623	Idler Pulley	1	158	3979	Pivot Brake	1
85	1664	Rear Wheel Ass'y.	2	159	3586	Fender R. H.	1
87	1663	Front Wheel Ass'y.	2	160	3585	Fender L. H.	1
88	1739	Lawson Muffler	1	161	4910	Upper Plunger Rod	1
90	1745	Ammeter	1	163	4915	Belt Guard	1
91	1751	Starter Button	1	164	4204	Reverse Idler Gear	1
93	3998	Gas Cap	1	165	4206	Battery Clamp	1
94	1754	3/4" Std. Pipe Nipple 5 1/2" Lg.	1	166	4211	Spacer	1
95	1786	Fuel Strainer	1	167	4213	1/4 x 3 Std. Pipe Nipple	1
96	1787	Straight Fitting	1	168	4440	Shift Stick	1
97	1796	Fuel Line	1	169	4216	1/4 Std. Pipe Elbow 90°	1
99	1800	Lawson 5 1/2 hp. Engine (Electric)	1	170	4217	Pipe Cap 1/4 Std.	1
100	1805	Lawson 5 1/2 hp. Engine (Recoil)	1	171	4218	1/4 x 1 1/4 Std. Pipe Nipple	1
101	1861	Rod Control Stud	1	172	4220	Front Axle	1
102	3279	Off-On Switch (32R)	1	173	4222	Quadrant	1
103	3503	Shift Fork	2	174	4907	Lift	1
104	3514	Shift Collar	1	175	4232	Throttle	1
105	3515	Front Shift Rail	1	176	4233	Choke	1
106	3516	Rear Shift Rail	1	177	4235	Differential Pinion Gear	4
107	3517	Ball Stop	2	178	4905	Lift Lever	1
108	3518	Spring Stop	1	180	4438	Lower Plunger Ass'y.	1
110	3522	Input Gear	1	181	4407	Tank Bottom	1
111	3523	Hi and 2nd Gear	1	182	4249	Hole Plug	1
112	3524	Low and Reverse Gear	1	183	4406	Fuel Tank	1
113	3525	Cluster Gear	1	184	4405	Fuel Tank Ass'y.	1
114	3526	Splined Pinion	1	185	4901	Front Spindle	2
115	3527	Reduction Gear	1	186	4410	Wheel Horse Decal	2
116	3528	Reduction Pinion	1	187	4412	Bottom Steering Support	1
117	3537	Seat Spring	1	188	4413	Steering Sector	1
118	3573	Shift Pin Stop	1	189	4414	Steering Wheel	1
119	1143	1/4-20 x 5/8 Button Head Screw	2	190	4415	Hood	1
120	3577	Boot	1	191	4416	Lawson Engine Base	1
121	3578	Plunger Guide	1	192	4417	Brake Set Lever	1
122	3605	Tie Rod	1	193	4418	Shift Decal	1
123	3624	Compression Spring	1	194	4419	Shield	1
124	3653	Battery	1	195	1466	Retainer	2
125	3656	Switch (32E)	1	196	1539	Bushing	1
126	3680	Plunger Cap	1	197	4422	Instrument Decal	1
127	3900	Transmission Case R.H.	1	199	4429	Clutch Rod	1
128	3901	Transmission Case L.H.	1	200	4430	Clutch Pedal	1
129	3902	Brake Drum	1	201	4431	Ground Switch to Coil Wire	1
130	3903	Brake Shaft Gear	1	202	4432	Starter Switch to Starter Wire	1
131	3904	Axle	2	203	4433	Battery to Starter Wire	1
132	3905	Differential Case	2	204	4434	Generator to Ammeter Wire	1
133	3906	Bull Gear	1	208	1227	3/16 x 1 3/8 Roll Pin	1
134	3907	Spline Shaft	1	209	3930	Hood Stand Channel Strut	2
135	3908	Axle Gear	2	215	4900	Frame Ass'y.	1
136	3909	Differential Pin	5	217	4904	Hitch	1
137	3910	Cluster Shaft	1	218	4427	Hood Stand Channel Ass'y.	1
138	3912	Gasket	1	219	1755	Street El 90° 3/4" Std.	1
139	4437	Brake Band Ass'y.	1	220	1756	3/4" Lock Nut	1
140	3915	Locating Pin	2				





Lawn Ranger Rotary Mower

**32E - 32R PARTS LIST FOR LAWN RANGER ROTARY MOWER**

When Ordering Parts Always List Part Number and Name of Part.

Ref. No.	Part No.	Name	Quantity
1	4917	Deck	1
2	4924	Clutch Latch	1
3	4927	Clutch Pedal	1
4	4931	Shield	1
5	4151	Twin Housing & Bearings	1
6	3726	Housing	1
7	1508	Bearing	4
8	1303	Oil Seal	2
9	3724	Spindle	2
10	3716	Cup	2
11	1382	Pin - Roll $\frac{1}{4} \times \frac{3}{4}$	4
12	3718	Blade - Rotary - R.H.	1
13	3719	Blade - Rotary - L.H.	1
14	1336	Washer - Dome	2
15	1398	Screw - Hex - Nylock $\frac{3}{8} - 16 \times \frac{7}{8}$	2
16	1535	Race - Bearing Thrust	4
17	1534	Bearing - Thrust	2
18	1194	Key #5	2
19	3131	Gear Spur	2
20	1127	Snap Ring	2
21	1030	Fitting - Grease	2
22	1443	Hex. H. Cap Screw $\frac{3}{16} \times 18 - \frac{3}{4}$	4
23	1407	Hex. Hd. Nut Nylock $\frac{3}{8} \times 18$	4
24	4150	Ass'y. Housing - Cross Shaft	2
25	3138	Housing	1
26	1515	Bearing	1
27	1623	Pulley Idler	1
28	1536	Bushing - Idler	1
29	1363	Bolt - Hex $\frac{3}{8} - 16 \times \frac{7}{8}$ CP	1
30	1439	Bolt $\frac{1}{4} - 20 \times 1$ CP	1
31	1406	Nut - Nylock $\frac{1}{4} - 20$	1
32	1436	Washer - $\frac{1}{4}$ SAE CP	1
33	1486	Spring - Clutch	2
34	3715	Shaft	1

Ref. No.	Part No.	Name	Quantity
35	3130	Gear - Face	2
36	1185	Washer - Lock $\frac{5}{8}$	2
37	1194	Key - Woodruff #5	2
38	1122	Key - Woodruff #9 Pulley	1
39	1613	Pulley $3\frac{1}{2}$ Dia.	1
40	1042	Screw - Set $\frac{3}{16} - 18 \times \frac{5}{16}$	1
41	1426	Bolt - Hex $\frac{3}{8} - 16 \times 1\frac{1}{4}$	6
42	3141	Cover - Gear	2
43	1304	Screw - Hex Hd. #8 - $32 \times \frac{1}{4}$ Self Tap.	8
44	3757	Plug - Button	2
45	1587	Belt 43" A Section	1
46	1418	Washer - Lock $\frac{3}{8}$	4
47	1408	Nuts - Nylock $\frac{3}{8} - 16$	12
48	1343	Nut $\frac{5}{8} \times 18$	2
49	4935	Bracket - L.H.	1
50	4934	Bracket - R.H.	1
51	1423	Bolts $\frac{3}{8} - 16 \times \frac{3}{4}$	4
52	4940	Link - Front	2
53	4939	Link - Rear	2
54	4938	Rod - Front (Link Pivot)	1
55	1017	Washer $\frac{1}{2}$ SAE Plain	5
56	1002	Pin - Cotter $\frac{1}{8} \times 1$	1
57	4936	Rod - Rear (Link Pivot)	5
58	1425	Bolt $\frac{3}{8} - 16 \times 1$	4
59	4937	Spacer	4
60	4914	Bar - Lift	1
61	1434	Washer $\frac{3}{8}$ SAE Plain	4
62	3725	Cover - End Plate	2
63	1391	Screw - Rd. Hd. Mach. $\frac{1}{4} - 20 \times \frac{3}{8}$ (SEMS)	10
64	4121	Wheel - 6" Dia.	2
65	4177	Stud - Shoulder	2
66	1484	Decal (Caution)	2
67	3710	Decal	2

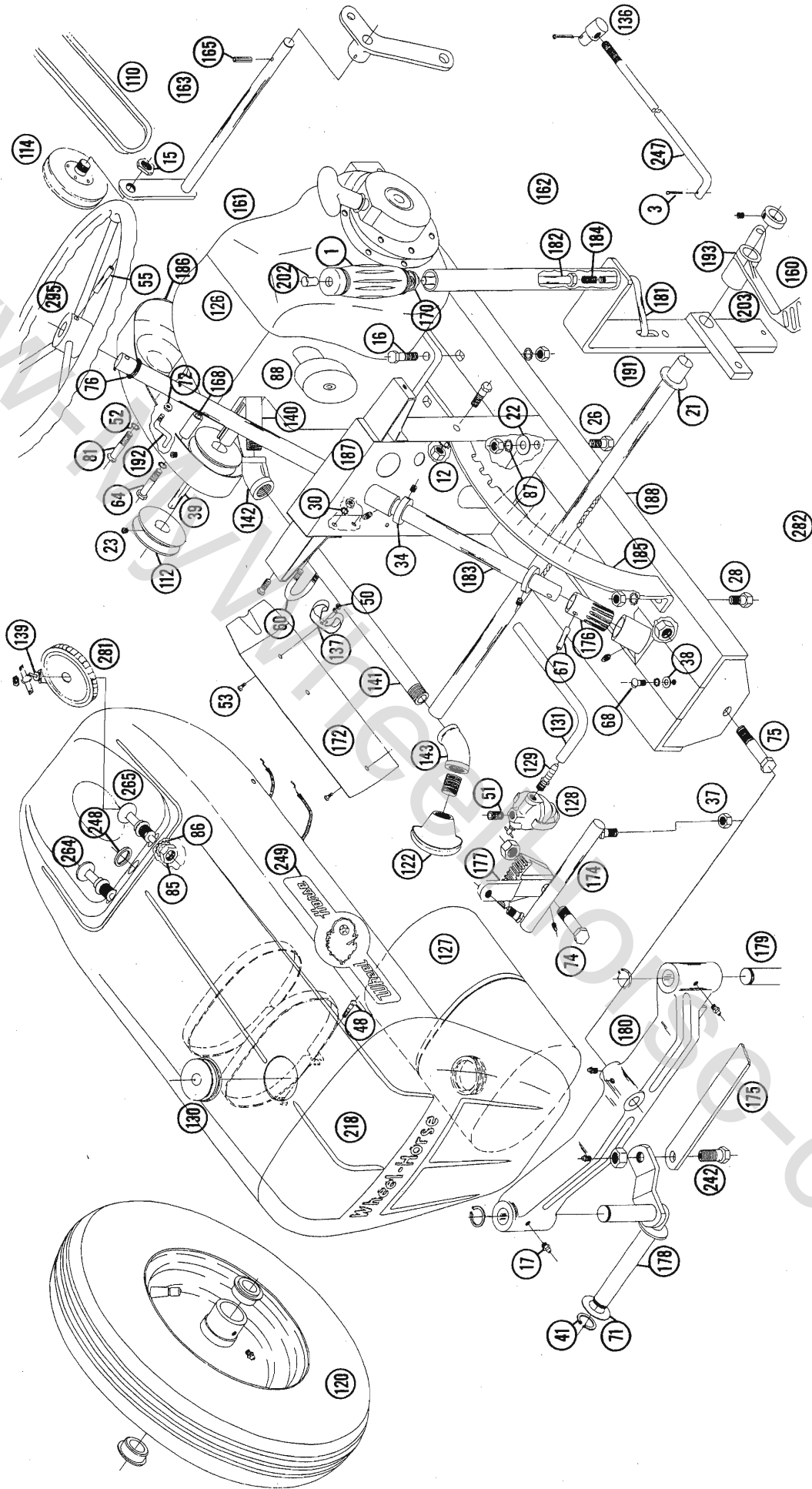


Figure 1—Model 401

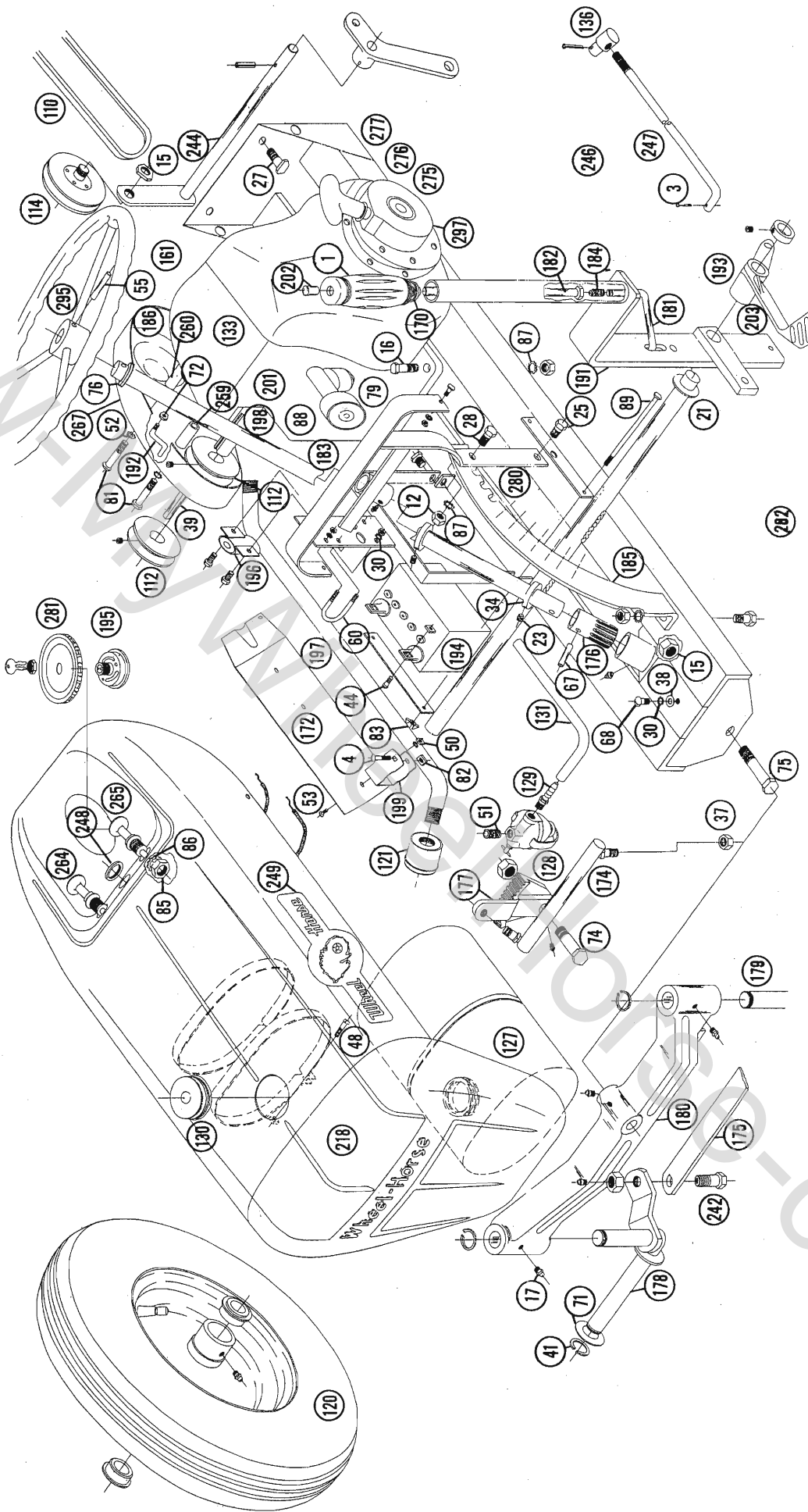
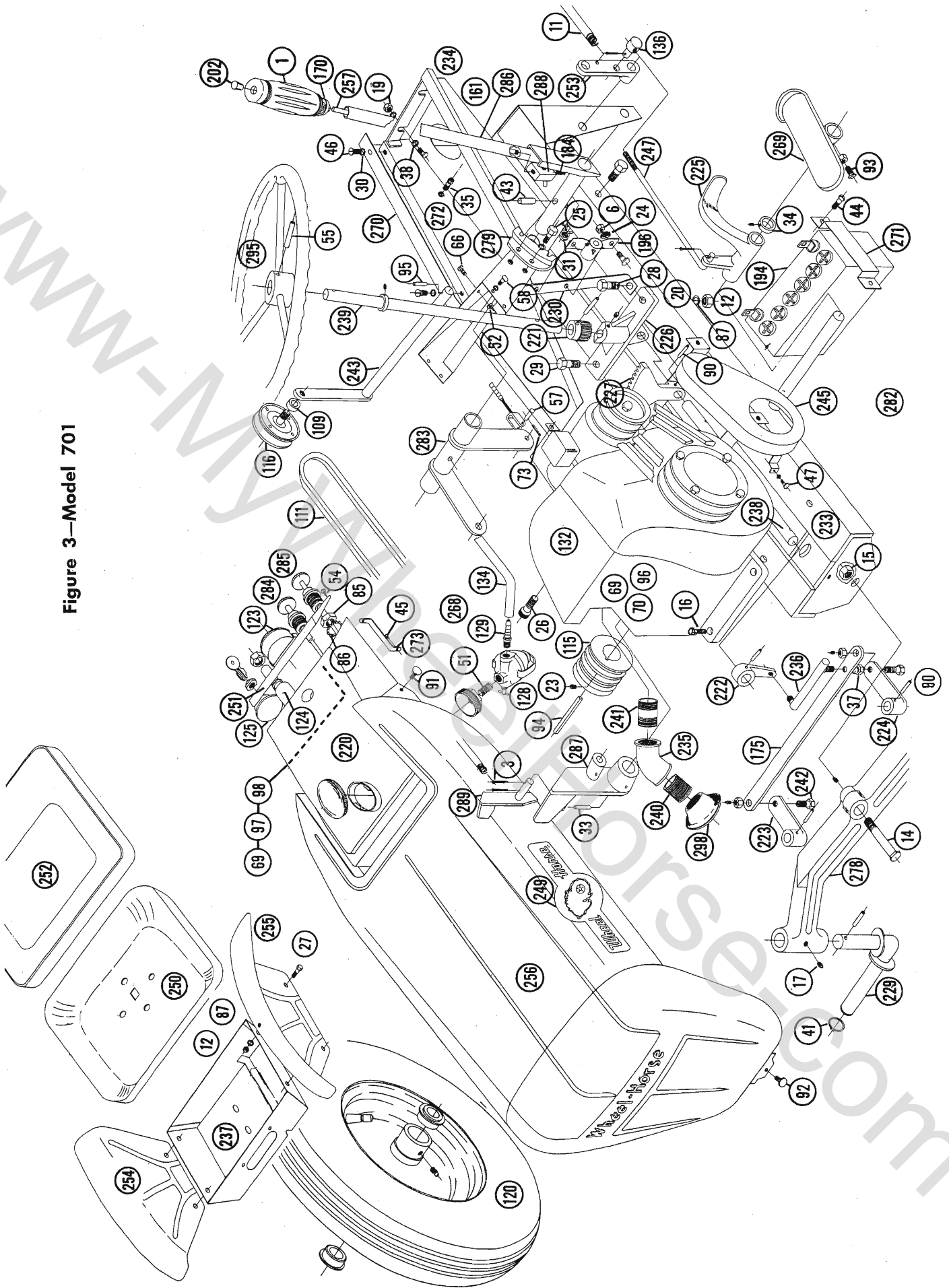


Figure 2—Model 551

Figure 3—Model 701



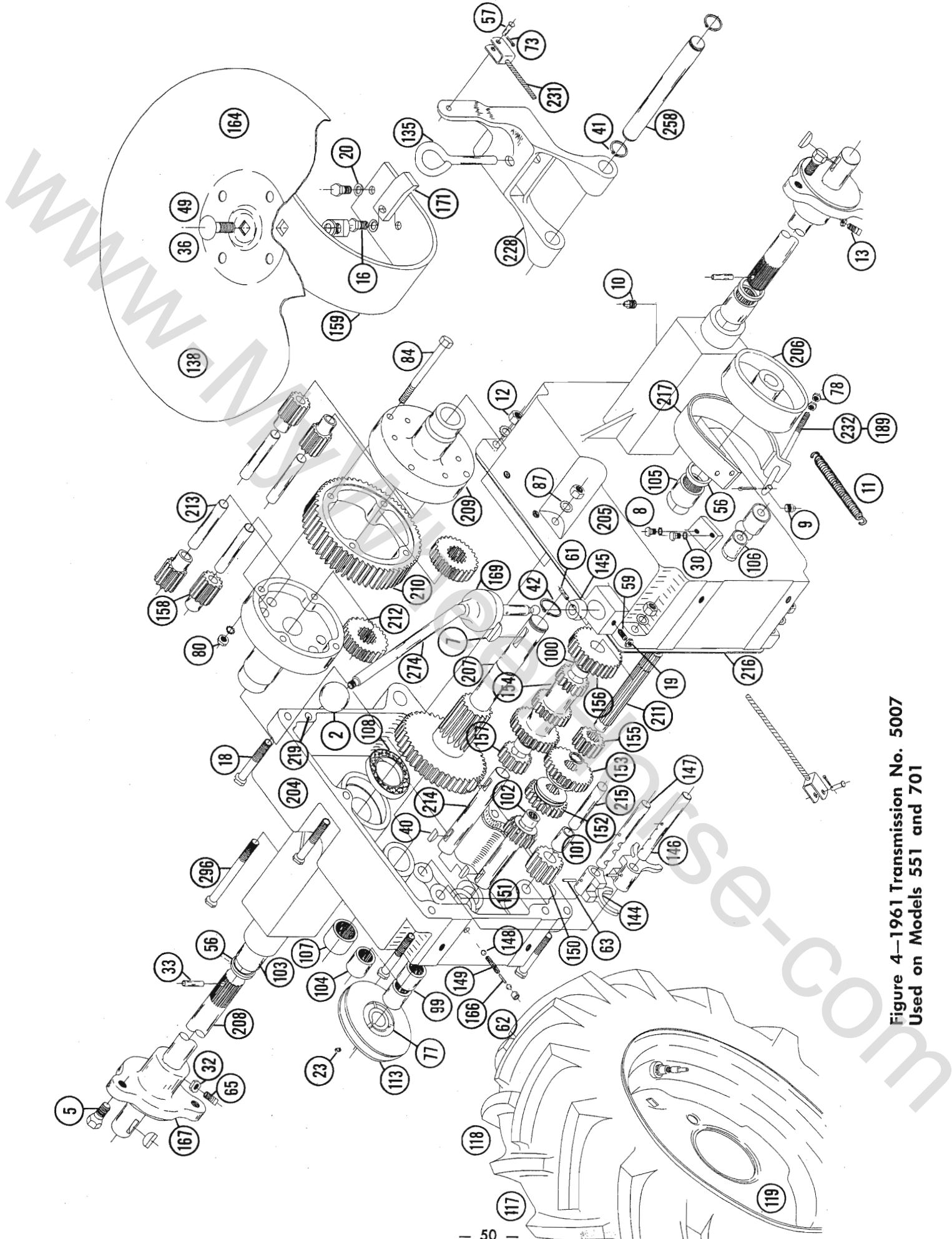


Figure 4—1961 Transmission No. 5007  
Used on Models 551 and 701

## PARTS LIST for MODELS 401, 551, 701 and TRANSMISSIONS

When ordering parts always list Part No., name of part, and Tractor Serial No. when available.

When more than one item is used on a tractor only one Reference No. is used.

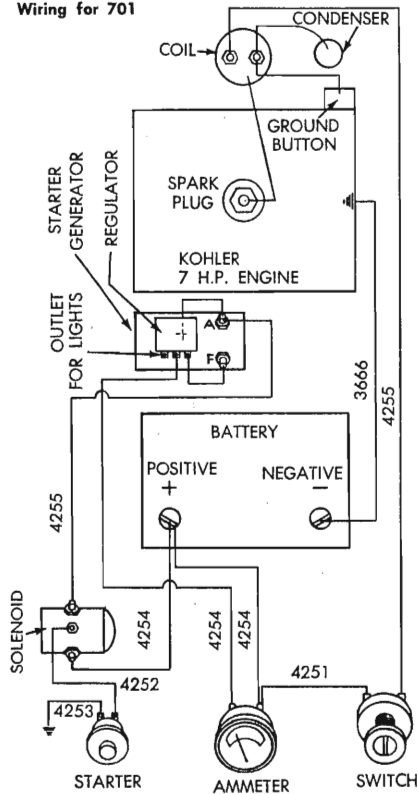
Ref. No.	Part No.	Description	Fig. No.	No. Req.	Ref. No.	Part No.	Description	Fig. No.	No. Req.
1	1000	Handle Grip	1, 2, 3	1	54	1214	Rd. Hd. Machine Screw 8-32 x 3/8	3	4
2	1001	Shift Knob	1, 2, 3	1	55	1227	Roll Pin 3/4 x 1 1/4 lg.	1, 2, 3	1
3	1002	Cotter Pin 1/8 x 1	1, 2, 3	2	56	1232	Oil Seal 1 x 1 1/4 x 1/8	4	3
4	1003	Stove Bolt with nut 3/8-24 x 1	2	1	57	1235	Yoke Pin	1, 2, 3, 4	2
5	1004	Wheel Bolt 3/8-20 x 3/4	1, 2, 3	6	58	1237	H.H.C.S. 1/4-20 x 5/8	3	4
6	1007	Hex Nut 5/8-18	3	2	59	1239	Socket Hd. Hd. Set Screw 1/4 x 3/4	4	1
7	1008	Woodruff Key #15	2, 3	3	60	1240	U-Bolt with Nut 1/4	1, 2	1
8	1009	H.H.C.S. 1/4-20 x 1/2	2, 3	2	61	1242	Roll Pin 1/2 x 1 1/8	4	1
9	1013	Pipe Plug 1/4 std. Pipe	4	1	62	1243	Cup Plug	4	1
10	1013A	Pipe Plug 3/8 std. Pipe (vent)	4	1	63	1244	Roll Pin 1/8 x 1	4	2
11	1014	Tension Spring	3, 4	2	64	1249	H.H.C.S. 5/8-24 x 1 3/4	1	1
12	1016	Hex Nut 3/8-16	1, 2, 3, 4	12	65	1252	Sq. Hd. Set Screw 3/8-16 x 1/8	4	2
13	1023	Sq. Hd. Set Screw Cup Pt. 3/8 x 1	4	2	66	1262	Stove Bolt 1/4-20 x 3/4	3	1
14	1025	H.H.C.S. 1/2-13 x 3	3	1	67	1269	Roll Pin 1/4 x 5/8	1, 2	1
15	1026	Jam Nut, Hex 1/2-13	1, 2, 3	1	68	1271	Stove Bolt 1/4-20 x 3/8	1, 2	1
16	1028	H.H.C.S. 3/8-16 x 1 1/4	1, 2, 3	4	69	1273	Rd. Hd. Machine Screw 10-32 x 5/8	3	1
17	1030	Grease Fitting 1/4-28	1, 2, 3	6	70	1277	Wire Clip	3	1
18	1032	H.H.C.S. 3/8-16 x 2" lg.	4	5	71	1278	Washer-Shim 1 1/4 x 3/4 x .050	1, 2, 3	2
19	1034	Hex Nut 1/4-20	2, 3, 4	3	72	1282	Jam Nut 3/8-24 H.H.	1, 2	1
20	1039	Lock Washer 3/8	3, 4	4	73	1285	Cotter Key 1/8 x 5/8	2, 3, 4	2
21	1040	Flat Washer 3/4 SAE	1, 2	1	74	1286	H.H.C.S. 1/2-13 x 1 3/4	1, 2	1
22	1041	Flat Washer 3/8 Wrought	1	2	75	1287	H.H.C.S. 1/2-13 x 2 3/4	1, 2	1
23	1042	Soc. Hd. Set Screw 5/16-18 x 5/8	1, 2, 3	4	76	1288	Grommet—Rubber 1/4 I.D.	1, 2	1
24	1045	Lock Washer 5/8	4	2	77	1303	Oil Seal 3/4 I.D. x 1" O.D. x 1/8	4	1
25	1047	H.H.C.S. 3/8-16 x 1/2	3, 4	2	78	1310	Nylock Nut 3/8-16	4	1
26	1059	Soc. Hd. Cap Screw 3/8-16 x 3/4	4	1	79	1314	90 Degree Fitting Fuel Line	2	1
27	1061	Hex Hd. Cap Screw 3/8-16 x 3/4	1, 2, 3	6	80	1316	Lock Nut 3/8-18	4	4
28	1062	H.H.C.S. 3/8-16 x 1"	1, 2, 3	3	81	1320	Hex H.C.S. 3/8-24 x 2	1, 2	1
29	1064	H.H.C.S. 3/8-16 x 1 1/2	3	3	82	1321	Sq. Nut 1/4	2	3
30	1067	Shakeproof Washer 1/4	1, 2, 3, 4	4	83	1327	Wing Nut 1/4-20	2	2
31	1070	H.H. Half Nut 3/8-16	3	2	84	1329	H.H.C.S. 5/8-18 x 3 1/4	4	4
32	1080	Jam Nut Hex Hd. 3/8-16	4	2	85	1330	Lock Nut Hex Hd. 3/8-18 x 5/8	1, 2, 3	2
33	1081	Roll Pin 1/4 x 1 1/2	3	1	86	1331	Shakeproof Washer 3/8 x I.D.	1, 2, 3	2
34	1085	Set Collar 3/4 I.D.	1, 2, 3	4	87	1332	Shakeproof Washer 3/8 I.D.	1, 2, 3, 4	12
35	1091	H.H.C.S. 5/8-18 x 1 1/2	3	1	88	1333	Shakeproof Washer 3/8 I.D.	1, 2	2
36	1106	Carriage Hd. Bolt and Nut 1/2-13 x 1	4	1	89	1335	Machine Bolt 1/4-20 x 6" lg.	2	2
37	1110	Hex Nut 3/8-24	1, 2, 3	2	90	1340	Roll Pin 1/4 x 1 1/4	3	3
38	1119	Flat Washer 1/4	1, 2, 3	2	91	1345	Thumb Screw 1/4-20 x 1 3/8	3	2
39	1120	Key Sq. 3/8 x 3/8 x 2	1, 2	1	92	1346	Thumb Screw 1/4-20 x 1 3/8	3	1
40	1122	Woodruff Key #9	4	2	93	1348	Sq. Hd. Set Screw 5/8-18 x 1"	3	2
41	1127	Snap Ring 3/4 I.D.	1, 2, 3, 4	4	94	1349	Sq. Key 1/4 x 1/4 x 1 1/2	3	1
42	1128	Snap Ring 1" I.D.	4	2	95	1350	Roll Pin 1/8 x 1 1/4	3	1
43	1136	Roll Pin 3/8 x 1 1/2	3	1	96	1351	Shakeproof Washer 8132	3	1
44	1143	Stove Bolt 1/4-20 x 3/8	2, 3	2	97	1352	Hex Nut 10-32	3	1
45	1150	Sheet Metal Screw No. 7 x 1/2	3	1	98	1353	Shakeproof Washer 10-32	3	1
46	1153	Stove Bolt 1/4-20 x 1/2	3	2	99	1508	Needle Bearing 3/4 x 1 x 3/4	4	2
47	1166	H.H.C.S. 1/4-20 x 3/4	3	1	100	1514	Ball Bearing 3/4 x 1 3/8 x 3/8	4	1
48	1179	Stove Bolt 3/8-24 x 1/2	1, 2	2	101	1516	Bronze Bearing 1/2 x 3/8 x 1 1/8	4	1
49	1180	Carriage Hd. Bolt 1/2-13 x 1 1/2	4	1	102	1518	Needle Bearing 5/8 x 1 1/8 x 1/2	4	1
50	1182	Hex Nut 8-32	1	1	103	1528	Needle Bearing 1 x 1 1/4 x 1	4	2
51	1192	Close Nipple 1/8 Std. Pipe	1, 2, 3	1	104	1529	Needle Bearing 3/4 x 1 x 3/4	4	2
52	1196	Lock Washer 5/8	1, 2, 3	2	105	1530	Needle Bearing 1 x 1 1/4 x 3/4	4	1
53	1202	Rd. Hd. Machine Screw 8-32 x 1/4	1	1	106	1531	Needle Bearing 5/8 x 1 1/8 x 3/4	4	1

Ref. No.	Part No.	Description	Fig. No.	No. Req.	Ref. No.	Part No.	Description	Fig. No.	No. Req.
107	1537	Needle Bearing 1 x 1 $\frac{1}{4}$ x $\frac{3}{4}$	4	1	173	3590	Frame Spacer	1	1
108	1533	Ball Bearing $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	2, 3	2	174	3600	Drag Link	1, 2	1
109	1536	Idler Bushing $\frac{3}{8}$ x $\frac{1}{16}$ x $\frac{3}{16}$	3	1	175	3605	Tie Rod	1, 2, 3	1
110	1569	"V" Belt (29") A Section	1, 2	1	176	3606	Steering Pinion	1, 2	1
111	1576	"V" Belt (70") A Section	3	1	177	3607	Steering Sector	1, 2	1
112	1608	Engine Pulley $\frac{3}{4}$ I.D. x 2 $\frac{1}{2}$ O.D.	1, 2	2	178	3622	Front Spindle R.H.	1, 2	1
113	1611	"V" Pulley $\frac{3}{4}$ x 4" O.D.	4	1	179	3623	Front Spindle L.H.	1, 2	1
114	1618	Idler Pulley	1, 2	1	180	3614	Front Axle	1, 2	1
115	1621	Engine Pulley 1" I.D. x 2 $\frac{1}{2}$ O.D.	3	1	181	3615	Lower Plunger Rod	1, 2	1
116	1623	Idler Pulley	3	1	182	3617	Upper Plunger Rod	1, 2	1
117	1650	Tire and Tube 6 x 12 Cleat	4	2	183	3618	Steering Rod	1, 2	1
118	1659	Tire and Tube 6 x 12 All Purpose	4	2	184	3624	Spring	1, 2, 3	1
119	1700	Rear Wheel Rim 12 x 5 JA	4	2	185	3626	Lift Sector	1, 2	1
120	1709	Front Wheel Ass'y 4 x 8	1, 2, 3	2	186	3627	Belt Guard	1, 2	1
121	1739	Muffler Lawson 5 $\frac{1}{2}$	2	1	187	3628	Hood Stand Ass'y	1	1
122	1740	Muffler Kohler #7 H.P.	1	1	188	3633	Frame Ass'y	1	1
123	1745	Ammeter	3	1	189	3634	Brake Rod	1, 4	1
124	1746	Starter Button	3	1	190	3636	Steering Support Plate	1	1
125	1747	Switch	3	1	191	3639	Tool Lift Lever	1, 2	1
126	1779	Kohler Engine K 90 4 H.P.	1	1	192	3542	Clutch Finger	1, 2	1
127	1785	Gas Tank	1, 2	1	193	3644	Clutch Pedal	1, 2	1
128	1786	Strainer	1, 2, 3	1	194	3653	Battery (12 Volt)	2, 3	1
129	1787	Straight Fitting Fuel Line	1, 2, 3	1	195	3656	Switch with Key	2	1
130	1789	Gas Cap	1, 2	1	196	3657	Solenoid	2, 3	1
131	1790	Fuel Line	1, 2	1	196	3658	Exhaust Pipe (Lawson)	2	1
132	1794	Kohler Engine K 161 7 H.P.	3	1	198	3659	45 Degree Street Elbow $\frac{3}{4}$ Std. Pipe	2	1
133	1795	Lawson Engine 5 $\frac{1}{2}$ H.P.	2	1	199	3664	Exhaust Clamp (Lawson)	2	1
134	1796	Gas Line	3	1	200	3666	Ground Wire	Wiring Dia.	1
135	1813	Tool Pin	4	1	201	3671	Lock Nut ( $\frac{3}{4}$ Pipe)	2	1
136	1861	Rod Control	1, 2, 3	1	202	3680	Plunger Cap	1, 2, 3	1
137	1883	Clamp	1	1	203	3682	Decal (Clutch Pedal)	1, 2	1
138	2510	Seat	1, 2, 4	1	204	3900	Transmission Case R.H.	4	1
139	3279	Switch	1	1	205	3901	Transmission Case L.H.	4	1
140	3487	Pipe Nipple $\frac{3}{4}$ Std. Pipe Close.	1	1	206	3902	Brake Drum	4	1
141	3488	Exhaust Pipe $\frac{3}{4}$ x 14 $\frac{1}{2}$	1	1	207	3903	Brake Shaft and Gear	4	1
142	3489	Elbow $\frac{3}{4}$ -90 Degree Pipe	1	1	208	3904	Rear Axle	4	2
143	3490	Elbow $\frac{3}{4}$ -45 Degree Pipe	1	1	209	3905	Differential Case	4	2
144	3503	Shift Fork	4	2	210	3906	Bull Gear	4	1
145	3514	Shift Collar	4	1	211	3907	Spline Shaft	4	1
146	3515	Front Shift Rail	4	1	212	3908	Differential Axle Gear	4	2
147	3516	Rear Shift Rail	4	1	213	3909	Differential Pin	4	4
148	3517	Ball Stop ( $\frac{1}{4}$ Dia. Ball)	4	1	214	3910	Cluster Shaft	4	1
149	3518	Spring Stop	4	1	215	3911	Reverse Idler Pin	4	1
150	3520	Reverse Idler Gear	4	1	216	3912	Gasket	4	1
151	3522	Input Drive Gear	4	1	217	3913	Brake Band Ass'y	4	1
152	3523	Hi and Intermediate Gear (Spline)	4	1	218	3914	Hood	1, 2	1
153	3524	Lo and Reverse Gear (Spline)	4	1	219	3915	Locating Pin	4	2
154	3525	Cluster Gear	4	1	220	3916	Instrument Shroud and Gas Tank	3	1
155	3526	Spline Shaft Gear	4	1	221	3917	Bevel Pinion (Steering)	3	1
156	3527	Cluster Shaft Reduction Gear	4	1	222	3918	Steering Pivot	3	1
157	3528	Cluster Shaft Reduction Pinion	4	1	223	3919RH	Steering Arm R.H.	3	1
158	3531	Spider Gear (Differential)	4	4	224	3919LH	Steering Arm L.H.	3	1
159	3537	Seat Spring	4	1	225	3922	Clutch Pedal	3	1
160	3539	Lift Cable	1	1	226	3923	Steering Support—Bottom	3	1
161	3541	Decal—Shift Position	1, 2, 3	1	227	3924	Sector—Steering	3	1
162	3543	Brake Band Ass'y	1	1	228	3926	Tractor Hitch	4	1
163	3560	Hitch	1	1	229	3928	Front Spindle	3	2
164	3566	Seat Cushion	1, 2	1	230	3930	Hood Stand Channel Strut	3	2
165	3572	Hitch Pin	1	1	231	3931	Lift Cable	3	1
166	3573	Shift Pin Stop	4	1	232	3935	Brake Rod	2, 3, 4	1
167	3574	Wheel Hubs	4	2	233	3937	Frame Ass'y	3	1
168	3575	Pipe Spacer $\frac{1}{4}$ x $1\frac{1}{16}$	1	2	234	3938	Hood Stand Ass'y	3	1
169	3577	Boot (Shift Lever)	4	1	235	3939	45 Degree Elbo 1" Std. Pipe	3	1
170	3578	Plunger Guide	1, 2, 3	1	236	3940	Drag Link	3	1
171	3583	Lug Cable Clamp	1, 2	1	237	3943	Tool Box	2, 3	1
172	3588	Exhaust Shield	1, 2	1	238	3944	Shaft—Lower Steering	3	1

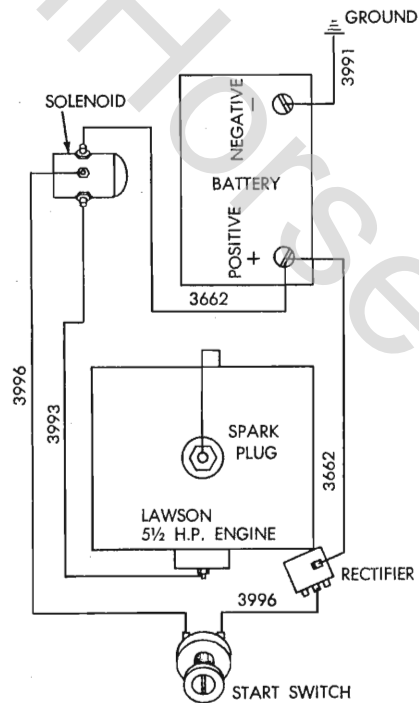
Ref. No.	Part No.	Description	Fig. No.	No. Req.
239	3945	Shaft—Upper Steering	3	1
240	3947	Close Nipple 1" Std. Pipe	3	1
241	3948	Nipple 1" x 2" Std. Pipe	3	1
242	3949	Clevis Pin	1, 2, 3	2
243	3950	Idler Arm Ass'y	3	1
244	3954	Idler Arm Ass'y	2	1
245	3955	Engine Belt and Pulley Guard	3	1
246	3957	Lift Cable	2	1
247	3967	Clutch Rod	1, 2, 4	1
248	3968	Hole Plug	1, 2	1
249	3972	Decal—Hood	1, 2, 3	2
250	3973	Seat	3	1
251	3974	Instrument Panel	3	1
252	3978	Seat Cushion	3	1
253	3979	Pivot—Brake	3	1
254	3983	Fender—R.H.	2, 3	1
255	3984	Fender—L.H.	2, 3	1
256	3985	Hood Ass'y	3	1
257	3987	Rod—Upper Plunger	3	1
258	3988	Pin—Hitch	4	1
259	3989	Spacer—Belt Guard	2	1
260	3990	Spacer—Belt Guard	2	1
261	3991	Battery Cable 10"	Wiring Dia.	1
262	3992	Rectifier—Solenoid 22"	Wiring Dia.	1
263	3993	Starter—Solenoid 20½"	Wiring Dia.	1
264	3994	Throttle Control	1, 2	1
265	3995	Choke Control	1, 2	1
266	3996	Rectifier to Battery 12"	Wiring Dia.	1
267	3999	Belt Guard	2	1
268	4200	Foot Rest R.H.	3	1
269	4201	Foot Rest L.H.	3	1
270	4202	Belt Guard	3	1
271	4206	Clamp—Battery	3	1
272	4211	Spacer—Belt Guard ¾ Blk. Pipe	3	1

Ref. No.	Part No.	Description	Fig. No.	No. Req.
273	4212	Brace—Instrument Panel	3	1
274	4215	Shift Stick	4	1
275	4216	90 Degree Elbow	2	1
276	4217	Pipe Cap	2	1
277	4218	Pipe Nipple	2	1
278	4220	Front Axle	3	1
279	4222	Quadrant	3	1
280	4224	Hood Stand Ass'y	2	1
281	4225	Hole Plug	1, 2	1
282	4226	Serial Number Decal	1, 2, 3	1
283	4231	Lift	3	1
284	4232	Throttle Control	3	1
285	4233	Choke Control	3	1
286	4238	Lift Lever Ass'y	3	1
287	4239	Pedal—Clutch (Attach.)	3	1
288	4243	Lower Plunger Ass'y	3	1
289	4246	Trip Lever Ass'y	3	1
290	4251	Wire—Ammeter to Switch	Wiring Dia.	1
291	4252	Wire—Starter to Solenoid	Wiring Dia.	1
292	4253	Wire—Starter to Ground	Wiring Dia.	1
293	4254	Wire Ass'y—Batt. to Solenoid	Wiring Dia.	1
294	4255	Wire Ass'y—Batt. to Ground	Wiring Dia.	1
295	3415	Steering Wheel	1, 2, 3	1
296	1339	H.H.C.S. ¾-16 x 3½	4	1
297	1726	Lawson Recoil Starter	2	1
298	1744	Kohler Muffler	3	1
	5007	1961 Transmission complete		
	5010	1960 Transmission complete		
	3584	Tool Box and Fenders Assembly for 401 and 551		
		A-3587 Tool Box		
		B-3585 Fenders		
	S12-R	Red Touch-up Paint		
	S12-I	Ivory Touch-up Paint		

Wiring for 701



Wiring for 551





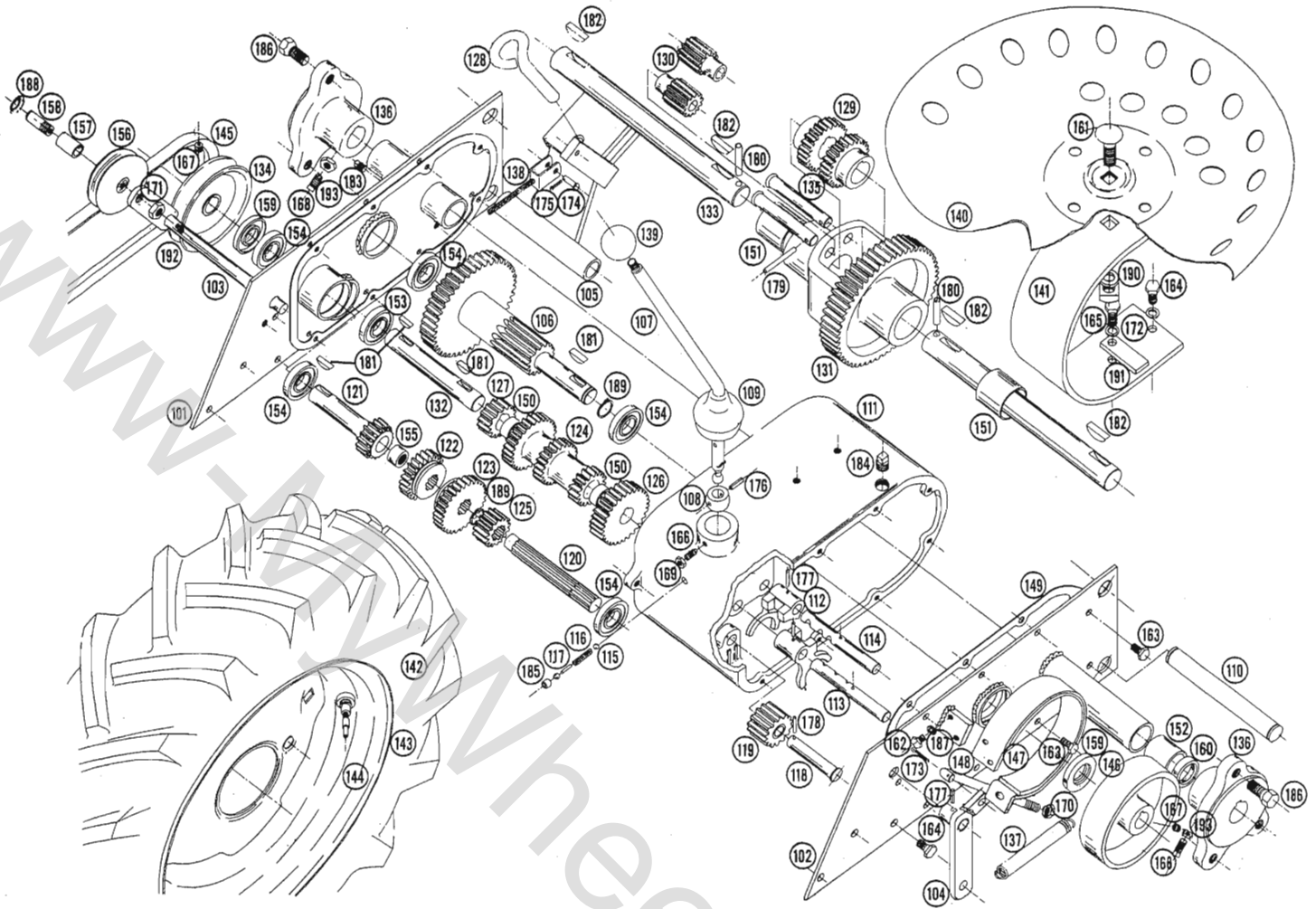
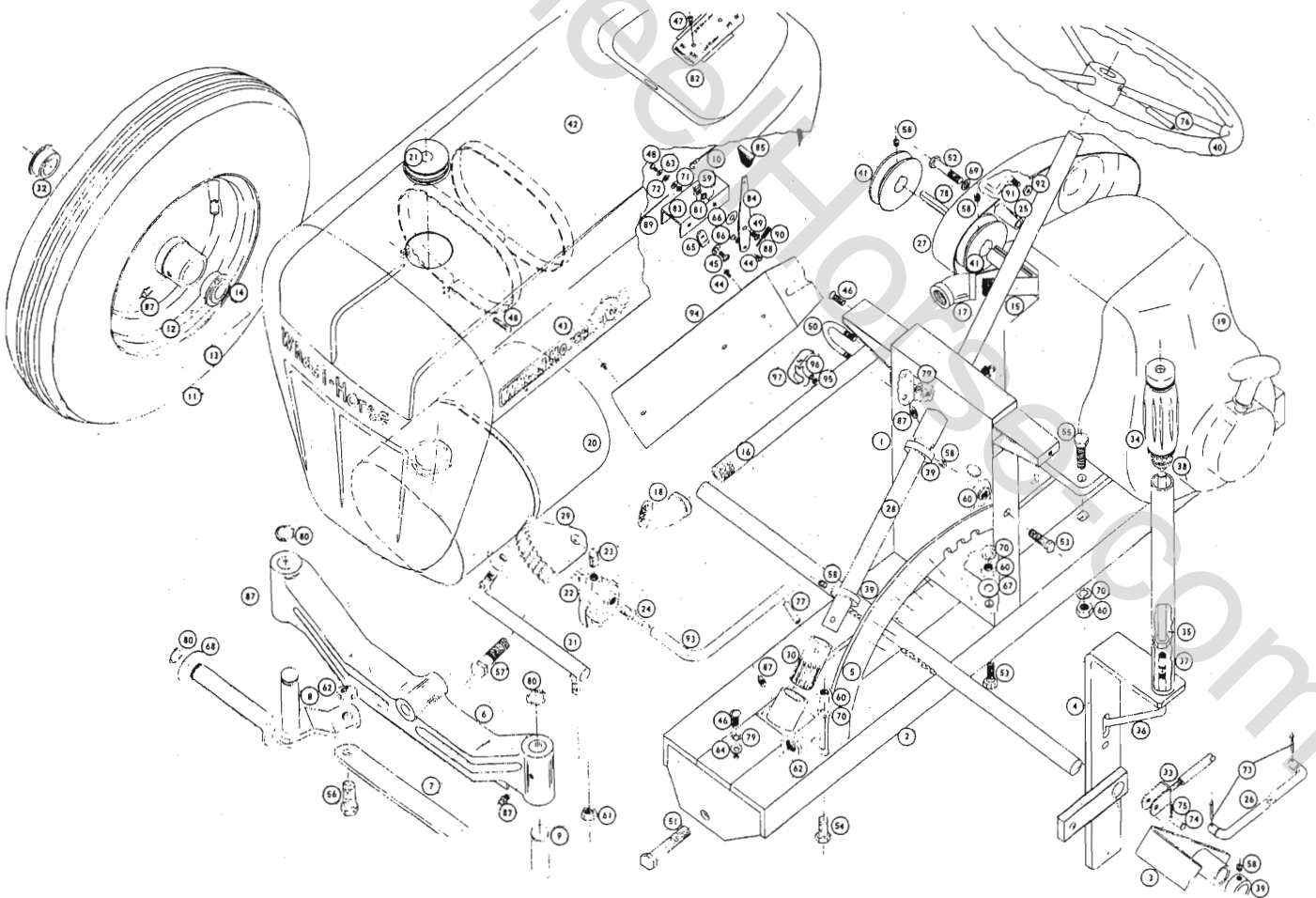


Figure 5—Transmission No. 5010  
Used on Model 401

Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit
101	3504	Right Trans. Cover	1	133	3532	Axle	2	164	1062	Hex Head Cap	7
102	3509	Left Trans. Cover	1	134	1611	Pulley Trans.	1	165	1028	Hex Head Cap	4
103	3638	Idler Arm	1	135	3535	Diff. Pins	4	166	1239	Set Screw Dog, Pt.	1
104	3635	Clutch Arm	1	136	3574	Wheel Hub	2	167	1042	Set Screw Sock. Hd.	2
105	3560	Hitch	1	137	1014	Tension Spring	1	168	1252	Set Screw Sq. Head	2
106	3559	Brake Shaft	1	138	3539	Lift Cable	1	169	1034	Hex Nut	1
107	3538	Lever-Shift	1	139	1001	Knob	1	170	1016	Hex Nut	8
108	3514	Collar Shift	1	140	2510	Seat	1	171	1026	Jam Nut	1
109	3577	Boot-Shift Lever	1	141	3537	Seat Spring	1	172	1039	Lockwasher	8
110	3572	Hitch Pin	1	142	1650	T & T Assembly	2	173	1002	Cotter Pin	1
111	3501	Trans. Hsg.	1	143	1654	Tube	2	174	1235	Yoke Pin	1
112	3503	Shift Fork	2	144	1700	Rim	2	175	1285	Cotter Pin	1
113	3515	Shift Rail (frt.)	1	145	1569	Belt	1	176	1242	Roll Pin	1
114	3516	Shift Rail (rear)	1	146	3540	Brake Drum	1	177	1244	Roll Pin	3
115	3517	Ball, Stop	2	147	3543	Brake Band Assy	1	178	1133	Roll Pin	1
116	3518	Spring - Stop	1	148	3634	Brake Rod	1	179	1227	Roll Pin	2
117	3573	Pin Stop, Shift	1	149	3536	Gasket	2	180	1081	Roll Pin	2
118	3519	Rev. Idler Pin	1	150	1504	Bronze Bearing	2	181	1122	Key, Woodruff #9	4
119	3520	Rev. Idler Gear	1	151	1517	Bronze Bearing	2	182	1008	Key, Woodruff #15	4
120	3521	Spline Shaft	1	152	1503	Bronze Bearing	2	183	1108	Pipe Plug	1
121	3522	Input Gear	1	153	1502	Ball Bearing	2	184	1013	Pipe Plug	1
122	3523	Hi & 2 Gear	1	154	1519	Ball Bearing	5	185	1243	Cup Plug	1
123	3524	Lo & Rev. Gear	1	155	1518	Needle Bearing	1	186	1004	Wheel Bolt	6
124	3525	Cluster Gear	1	156	1616	Idler Pulley	1	187	1067	Shakeproof Washer	2
125	3526	Spined Pinion	1	157	1522	Bronze Bearing	1	188	1272	Snap Ring	1
126	3527	Cluster Shf. Red. Gear	1	158	3632	Stud-Idler Pin	1	189	1127	Snap Ring	4
127	3528	Cluster Shft. Pinion	1	159	1234	Oil Seal	2	190	1115	Lock Washer	1
128	1813	Tool Pin	1	160	1257	Oil Seal	2	191	3583	Lug-Cable Clamp	1
129	3530	Axle Gear	2	161	1106	Carriage Bolt	1	192	1030	Zerk	1
130	3531	Spider Gear	4	162	1009	Hex Head Cap	2	193	1080	Jam Nut	2
131	3502	Diff Case & Gear	1	163	1248	Hex Head Cap	18				
132	3533	Cluster Shaft	1								

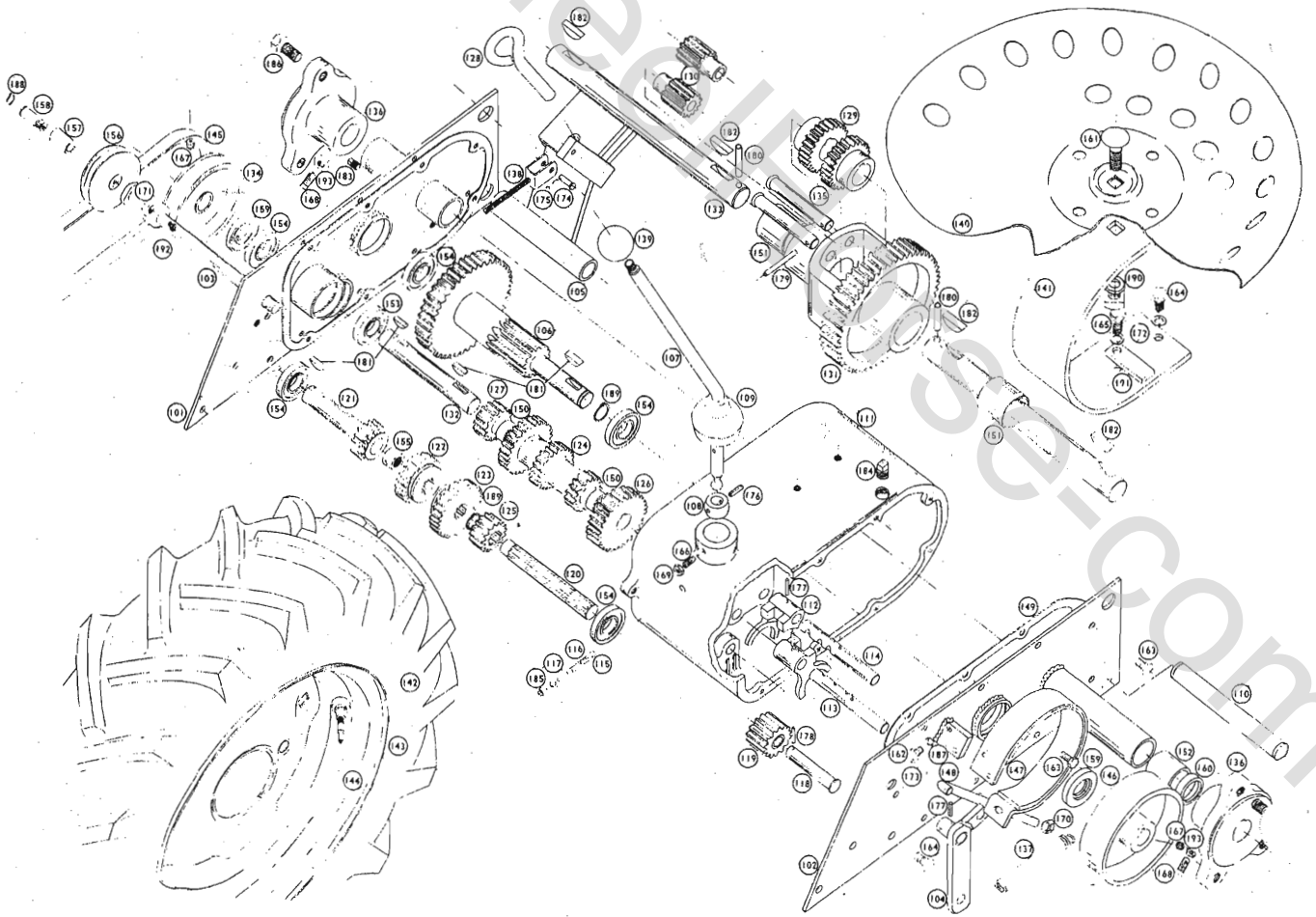
## 550 - 400 PARTS LIST (Front End)

Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit
1	3628	Hood Stand Assembly	1	33	3539	Lift Cable	1	66	1276	Washer (Friction)	2
2	3633	Frame Assembly	1	34	1000	Grip-Rubber	1	67	1041	Washer	2
3	3644	Clutch Pedal	1	35	3617	Plunger Rod (upper)	1	68	1278	Washer	2
4	3639	Tool Lift Lever	1	36	3615	Plunger Rod (lower)	1	69	1196	Lockwasher External (Shakeproof)	2
5	3626	Lift Sector	1	37	3624	Spring	1	70	1039	Lockwasher	10
6	3614	Front Axle	1	38	3578	Guide Plunger	1	71	3613	Insulating Washer	1
7	3605	Tie Rod	1	39	1085	Shaft Collar	3	72	3612	Insulating Bushing	1
8	3622R	Front Spindle	1	40	3415	Steering Wheel	1	73	1002	Cotter Pin	2
9	3623L	Front Spindle	1	41	1608	Pulley	2	74	1235	Yoke Pin	1
10	1146	Wire Assy.	1	42	3647	Hood	1	75	1285	Cotter Pin	1
11	1709	Front Wheel Assy.	2	43	1283	Crome Cal	2	76	1227	Roll Pin	1
12	1712	Wheel & Rim	2	44	1202	Stove Bolt	2	77	1269	Roll Pin	1
13	1656	Tire	2	45	1274	Stove Bolt	2	78	1120	Key Square	1
	1657	Tube	2	46	1271	Stove Bolt	3	79	1067	Shakeproof Washer	5
14	1514	Bearing Ball	4	47	1273	Machine Screw	2	80	1127	Snap Ring	4
15	3487	Nipple Pipe	1	48	1179	Stove Bolt	2	81	3641	Spring	2
16	3488	Nipple Pipe	1	49	1143	Stove Bolt	3	82	3629	Cover-Control Plate	1
17	3489	Elbow	1	50	1240	U-bolt w/nuts	1	83	3630	Channel-Con. Lever Mount.	1
18	3490	Elbow	1	51	1287	Hex Head Cap	1	84	3631	Control Lever	2
19	1779	Engine	1	52	1092	Hex Head Cap	2	85	1270	Plastic Knob	2
20	1785	Fuel Tank	1	53	1061	Hex Head Cap	3	86	1279	Wire Lock	2
21	1789	Cap - Fuel Tank	1	54	1062	Hex Head Cap	1	87	1030	Zerk	6
22	1786	Strainer	1	55	1028	Hex Head Cap	4	88	3648	Wire Throttle	1
23	1192	Nipple Close	1	56	3608	Hex Head Cap	2	89	3649	Wire Choke	1
24	1787	Connector Strt. Line	1	57	1286	Hex Head Cap	1	90	3650	Casing	1
25	3575	Spacer Belt Gd.	2	58	1042	Set Screw Sock. Hd.	2	91	3642	Finger Clutch	1
26	3550	Clutch Rod	1	59	1280	Lock Nut	2	92	1282	Jam Nut	1
27	3627	Belt Guard	1	60	1016	Hex Nut	8	93	1790	Fuel Line	1
28	3618	Steering Rod	1	61	1110	Hex Nut	1	94	3588	Exhaust Shield	1
29	3607	Sector Steering	1	62	1026	Jam Nut	4	95	1182	Nut	2
30	3606	Pinion Steering	1	63	1275	Washer	1	96	1125	Lock Washer	2
31	3600	Drag Link	1	64	1119	Washer	1	97	1883	Clamp	2
32	1521	Brg. P. Iron	4	65	1277	Clip	2				

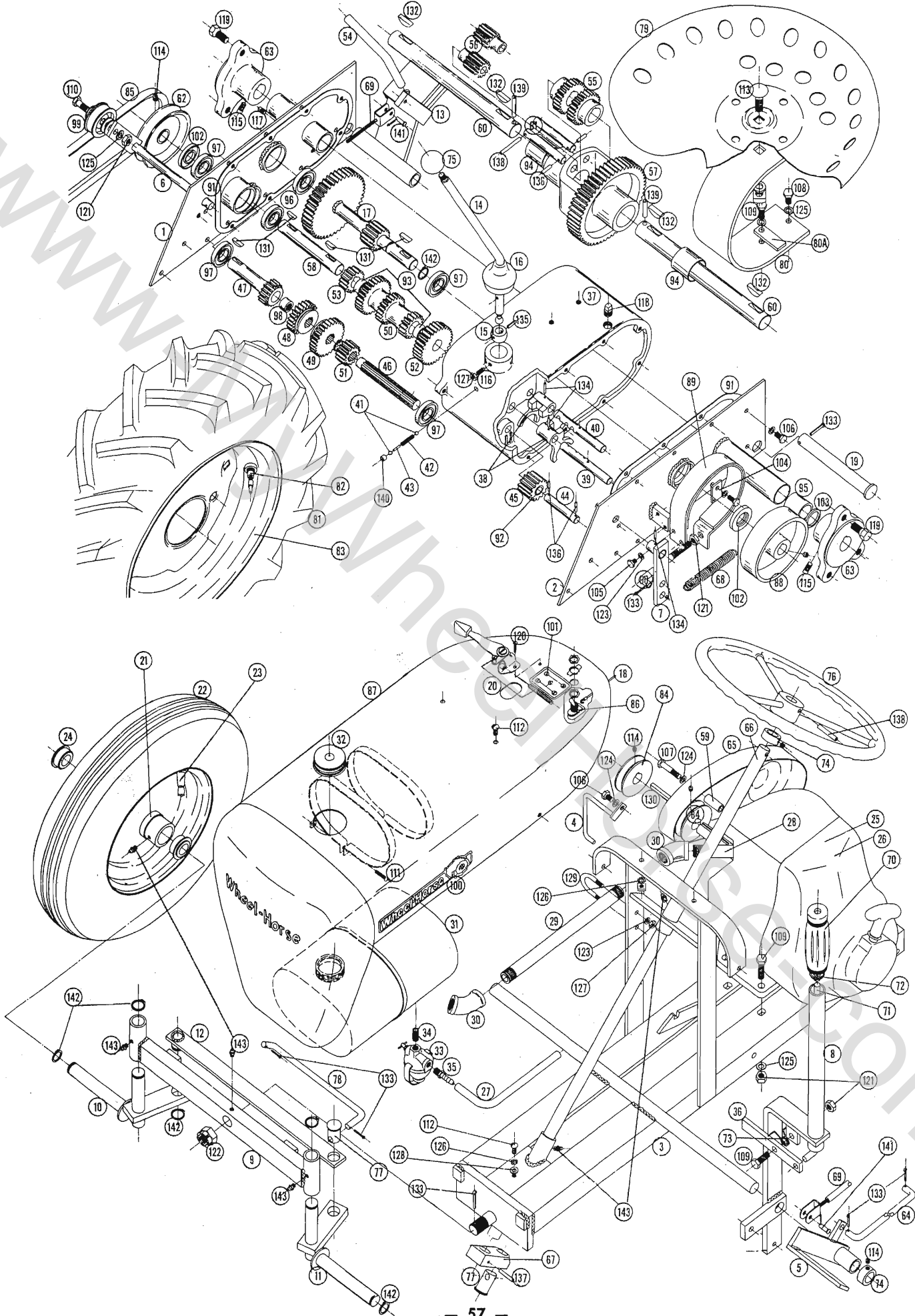


## 550 - 400 PARTS LIST (Rear End)

Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit	Ref. No.	Part No.	Description	No. Per Unit
101	3504	Right Trans. Cover	1	133	3532	Axle	2	164	1062	Hex Head Cap	7
102	3509	Left Trans. Cover	1	134	1611	Pulley Trans.	1	165	1028	Hex Head Cap	4
103	3638	Idler Arm	1	135	3535	Diff. Pins	4	166	1239	Set Screw Dog. Pt.	1
104	3635	Clutch Arm	1	136	3574	Wheel Hub	2	167	1042	Set Screw Sock. Hd.	2
105	3560	Hitch	1	137	1014	Tension Spring	1	168	1252	Set Screw Sq. Head	2
106	3559	Brake Shaft	1	138	3539	Lift Cable	1	169	1034	Hex Nut	1
107	3538	Lever-Shift	1	139	1001	Knob	1	170	1016	Hex Nut	8
108	3514	Collar Shift	1	140	2510	Seat	1	171	1026	Jam Nut	1
109	3577	Boot-Shift Lever	1	141	3537	Seat Spring	1	172	1039	Lockwasher	8
110	3572	Hitch Pin	1	142	1650	T & T Assembly	2	173	1002	Cotter Pin	1
111	3501	Trans. Hsg.	1	143	1654	Tube	2	174	1235	Yoke Pin	1
112	3503	Shift Fork	2	144	1700	Rim	2	175	1285	Cotter Pin	1
113	3515	Shift Rail (frt.)	1	145	1569	Belt	1	176	1242	Roll Pin	1
114	3516	Shift Rail (rear)	1	146	3540	Brake Drum	1	177	1244	Roll Pin	3
115	3517	Ball Stop	2	147	3543	Brake Band Assy	1	178	1133	Roll Pin	1
116	3518	Spring-Stop	1	148	3634	Brake Rod	1	179	1227	Roll Pin	2
117	3573	Pin Stop, Shift	1	149	3536	Gasket	2	180	1081	Roll Pin	2
118	3519	Rev. Idler Pin	1	150	1504	Bronze Bearing	2	181	1122	Key, Woodruff #9	4
119	3520	Rev. Idler Gear	1	151	1517	Bronze Bearing	2	182	1008	Key, Woodruff #15	4
120	3521	Spline Shaft	1	152	1503	Bronze Bearing	2	183	1108	Pipe Plug	1
121	3522	Input Gear	1	153	1502	Ball Bearing	2	184	1013	Pipe Plug	1
122	3523	Hi & 2 Gear	1	154	1519	Ball Bearing	5	185	1243	Cup Plug	1
123	3524	Lo & Rev. Gear	1	155	1518	Needle Bearing	1	186	1004	Wheel Bolt	6
124	3525	Cluster Gear	1	156	1616	Idler Pulley	1	187	1067	Shakeproof Washer	2
125	3526	Splined Pinion	1	157	1522	Bronze Bearing	1	188	1272	Snap Ring	1
126	3527	Cluster Shf. Red. Gear	1	158	3632	Stud-Idler Pin	1	189	1127	Snap Ring	4
127	3528	Cluster Shft. Pinion	1	159	1234	Oil Seal	2	190	1115	Lock Washer	1
128	1813	Tool Pin	1	160	1257	Oil Seal	2	191	3583	Lug-Cable Clamp	1
129	3530	Axle Gear	2	161	1106	Carriage Bolt	1	192	1030	Zerk	1
130	3531	Spider Gear	4	162	1009	Hex Head Cap	2	193	1080	Jam Nut	2
131	3502	Diff Case & Gear	1	163	1248	Hex Head Cap	18				
132	3533	Cluster Shaft	1								



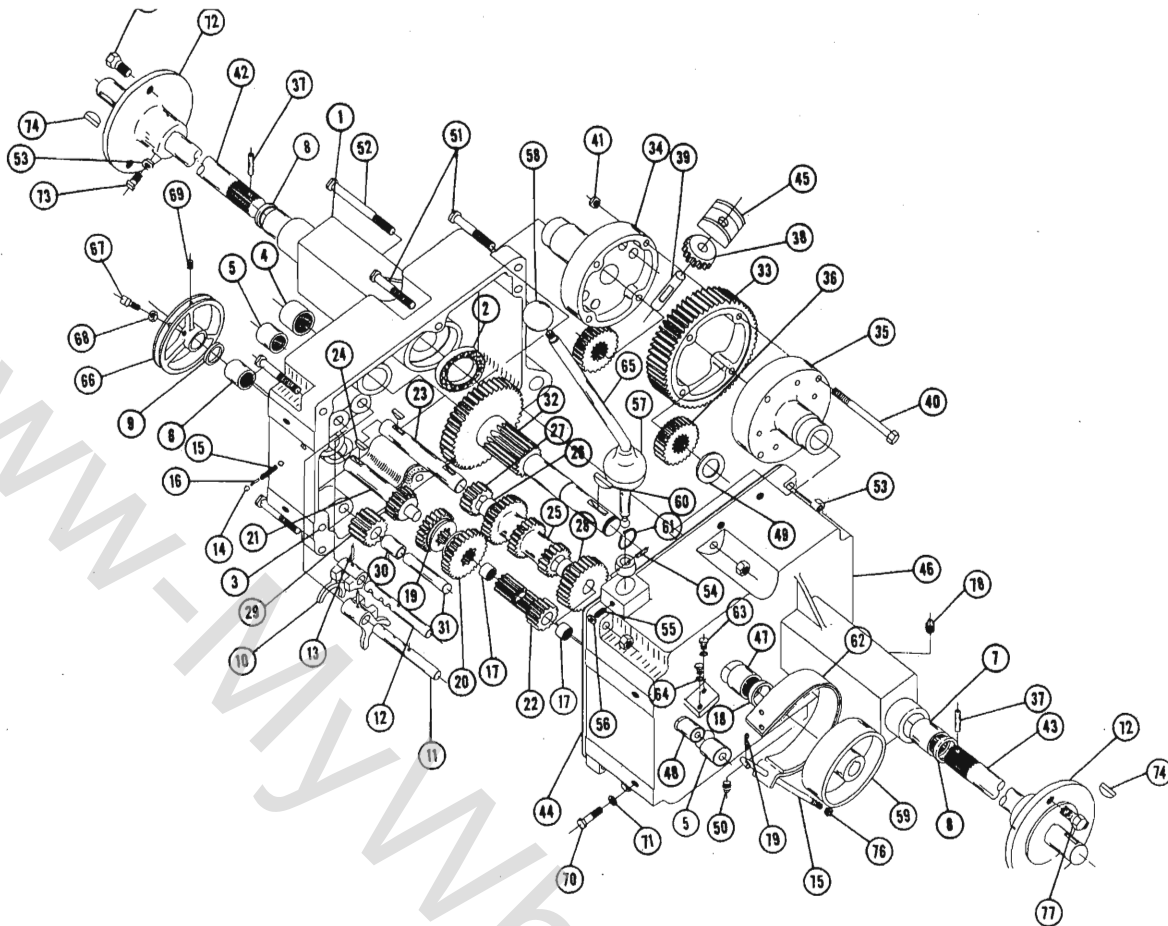
RJ-59, RJ-58



## RJ-59, RJ-58 PARTS LIST

Ref. No.	Part No.	Description	No. Req.
1	3504	Right Transmission Cover	1
2	3509	Left Transmission Cover	1
3	3546	Frame	1
4	3579	Belt Guard, Attachment	1
5	3567	Clutch Pedal	1
6	3552	Idler Arm	1
7	3556	Clutch Arm	1
8	3410	Tool Lift Lever	1
9	3435	Front End	1
10	3401	Front Spindle, (Right)	1
11	3400	Front Spindle, (Left)	1
12	3456	Tie Rod	1
13	3560	Hitch, Draw Bar	1
14	3538	Lever, Shift	1
15	3514	Collar, Shift Lever	1
16	3577	Boot, Shift Lever	1
17	3559	Brake Shaft and Gear	1
18	1146	Wire, Remote Stop	1
19	3572	Pin, Draw Bar Hitch	1
20	1782	Throttle Control Assembly	1
21	1712	Wheel, Front	2
22	1656	Tire, Front, 4:00 x 8	2
23	1657	Tube, Front, 4:00 x 8	2
24	1514	Ball Bearing	4
	1521	Sintered Iron Bearing	4
	1709	Front Tire and Wheel Assembly	2
25	1781	Engine, Clinton	1
26	1779	Engine, Kohler	1
27	1790	Fuel Line	1
28	1158	Nipple, Pipe, 1/2 x 3 1/2 (Clinton only)	1
	3487	Nipple, Pipe, 3/4 Close (Kohler)	1
29	1159	Nipple, Pipe, 1/2 x 1 1/2 (Clinton only)	1
	3488	Nipple, Pipe, 3/4 x 1 1/2 (Kohler only)	1
30	1160	45° Elbow x 1/2 (Clinton only)	2
	3489	90° Elbow x 3/4 (Kohler only)	1
	3490	45° Elbow x 3/4 (Kohler only)	1
31	1785	Fuel Tank with cap	1
32	1789	Cap, Fuel Tank	1
33	1786	Strainer	1
34	1192	Nipple, Close	1
35	1787	Connector, Straight Gas Line	1
36	3467	Lock Bar, Lift Lever	1
37	3501	Transmission Housing	1
38	3503	Shift Fork	2
39	3515	Shift Rail, Front	1
40	3516	Shift Rail, Rear	1
41	3517	Ball, Stop	2
42	3518	Spring, Shift Stop	1
43	3573	Pin, Shift Stop	1
44	3519	Rev. Idler Pin	1
45	3520	Rev. Idler Gear, with Bearing	1
46	3521	Spline Shaft	1
47	3522	Input Gear	1
48	3523	Hi and Second Gear	1
49	3524	Low and Reverse Gear	1
50	3525	Cluster Gear	1
51	3526	Splined Pinion	1
52	3527	Cluster Shaft Reduction Gear	1
53	3528	Cluster Shaft Reduction Pinion	1
54	1813	Tool Pin	1
55	3530	Axle Gear, Differential	2
56	3531	Spider Gear, Differential	4
57	3502	Differential Case and Gear	1
58	3533	Cluster Shaft	1
59	3575	Spacer, Belt Guard	2
60	3532	Axle	2
61	3535	Differential Pins	4
62	1611	Pulley, Transmission	1
63	3513	Wheel Hub	2
64	3550	Clutch Rod	1
65	3549	Belt Guard, Transmission	1
66	3438	Steering Rod	1
67	3409	Steering Lug	1
68	1014	Tension Spring	1
69	3539	Lift Cable	1
70	1000	Rubber Grip	1

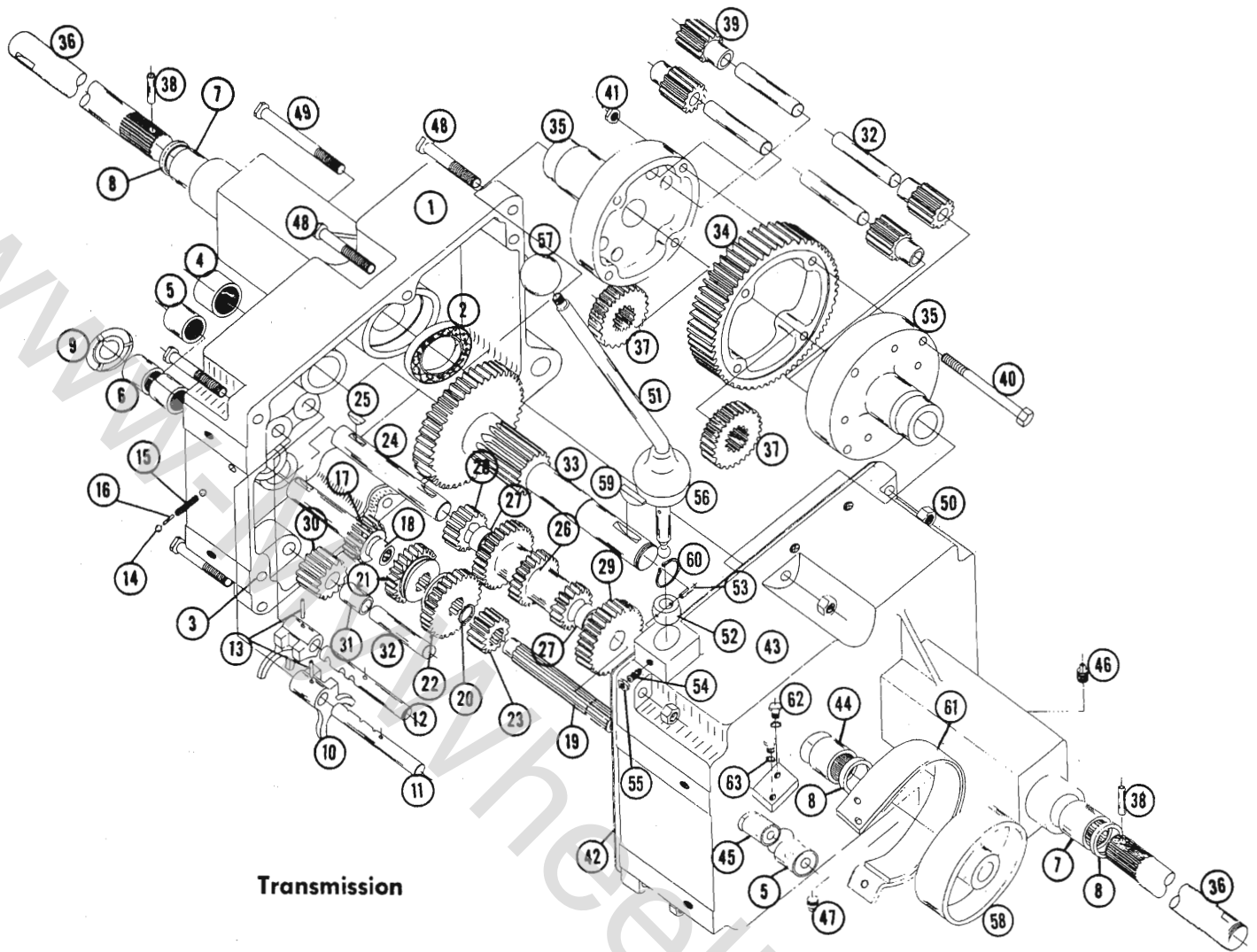
Ref. No.	Part No.	Description	No. Req.
71	3468	Plunger Rod	1
72	3578	Guide, Plunger	1
73	1035-L	Torsion Spring	1
74	1085	Shaft Collar	2
75	1001	Knob	1
76	3415	Steering Wheel	1
77	3461	Clevis Pin, Steering	2
78	3441	Steering Link	1
79	2510	Seat	1
80	3537	Seat Spring	1
80-A	3583	Lug, Cable-Clamping	1
81	1650	Tire with Tube, 6 x 12	2
82	1654	Tube, Inner	2
83	1700	Rim	2
84	1608	Pulley, Engine	2
85	1567	Belt	1
86	3279	Stop Switch	1
87	1869	Hood with Straps	1
88	3540	Brake Drum	1
89	3543	Brake Band with Liner	1
90	3545	Brake Rod	1
91	3536	Gasket, Transmission	2
92	1516	Bronze Bearing, 1/2x5/8x1 1/8	1
93	1504	Bronze Bearing, 3/4x7/8x3/4	2
94	1517	Bronze Bearing, 1 3/8x1 1/2x1-7/16	2
95	1503	Bronze Bearing, 1x1 1/8x1 1/2	2
96	1502	Ball Bearing, 3/4x1 1/8x3/8	3
97	1519	Ball Bearing (Ground), 3/4x1 1/8x5/16	4
98	1518	Needle Bearing	1
99	3542	Idler Pulley	1
100	1228	Cromcal "Wheel Horse"	2
101	3541	Cromcal "Shift Instructions"	1
102	1234	Oil Seal	2
103	1257	Oil Seal (Axle)	2
104	3582	Spring Anchor	1
105	1237	Cap Screw, Hex Head, 1/4-20x5/8	2
106	1238	Cap Screw, Hex Head, 5/16-18x3/8	19
107	1092	Cap Screw, Hex Head, 5/16x18x1 3/4	2
108	1062	Cap Screw, Hex Head, 3/8-16x1	7
109	1028	Cap Screw, Hex Head, 3/8-16x1 1/4	6
110	1064	Cap Screw, Hex Head, 3/8-16x1 1/2	1
111	1003	Stove Bolt, Slotted, R.D., 3/16x1	2
112	1143	Stove Bolt, Slotted, R.D., 1/4x3/8	5
113	1106	Carriage Bolt, 1/2-13x1	1
114	1042	Set Screw, Socket Hd. Cup Point, 5/16-18x5/16	2
115	1161	Set Screw, Cup Point, 3/8-16x3/8	2
116	1239	Set Screw, Full Dog Point, 1/4-20x3/4	1
117	1108	Pipe Plug, 1/8"	1
118	1013	Pipe Plug, 1/4"	1
119	1004	Wheel Bolts, Taper Head, 7/16-20x3/4	6
120	1150	Sheet Metal Screw, No. 7x1/2	2
121	1016	Nut, Hex, NC, 3/8-16	14
122	1010	Nut, Hex, Castle NF, 3/4-16	1
123	1113	Lockwasher, Spring, 1/4"	9
124	1045	Lockwasher, Spring, 5/16"	2
125	1039	Lockwasher, Spring, 3/8"	12
126	1067	Lockwasher, External Shakeproof, 1/4"	5
127	1034	Nut, Hex, 1/4-20	3
128	1119	Flat Washer, SAE, 1/4"	1
129	1240	U Bolt with nuts, 1/4x1-1/16x1 3/4	1
130	1120	Key, Square, 3/16 Sq. x 2	1
131	1122	Key, Woodruff, No. 9	4
132	1008	Key, Woodruff, No. 15	4
133	1002	Cotter Pin, 1/8x1	8
134	1244	Roll Pin, 1/8x1	3
135	1242	Roll Pin, 5/32x13/16	1
136	1133	Roll Pin, 3/16x1	6
137	1134	Roll Pin, 3/16x1 1/4	1
138	1227	Roll Pin, 3/16x1 3/4	3
139	1081	Roll Pin, 1/4x1 1/2	2
140	1243	Cup, Plug, 5/16"	1
141	1235	Yoke Pin, 1/4x51/64"	2
142	1127	Snap Ring, 3/4"	7
143	1030	Grease Fitting, 1/4-28	5



### 5047 TRANSMISSION PARTS LIST (1054 TRACTOR)

When ordering parts always list Part No. and name of part.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	4160	Case — Transmission — R.H.	1	41	1022	Nut — Hex Lock $\frac{3}{8}$ -16	4
2	1533	Bearing — Ball	2	42	2824	Axle — Rear R.H.	1
3	3915	Pin — Locating	2	43	2825	Axle — Rear L.H.	1
4	1532	Bearing — Needle	1	44	3912	Gasket	1
5	1529	Bearing — Needle	2	45	2826	Block — Differential	2
6	1508	Bearing — Needle	1	46	4161	Case — Transmission L.H.	1
7	1526	Bearing — Needle	2	47	1530	Bearing — Needle	1
8	1213	Seal — Oil $1\frac{1}{8}$ I.D.	2	48	1531	Bearing — Needle	1
9	1303	Seal — Oil $\frac{3}{4}$ I.D.	1	49	2828	Washer — Thrust	2
10	3503	Fork — Shift	2	50	943420-4	Plug $\frac{3}{8}$ Pipe Sq. Hd.	1
11	3515	Rail — Front Shift	1	51	908038-4	Bolt — Hex $\frac{3}{8}$ -16 x 2	5
12	5172	Rail — Rear Shift	1	52	908043-4	Bolt — Hex $\frac{3}{8}$ -16 x $3\frac{1}{2}$	1
13	933156	Roll Pin $\frac{1}{8}$ x 1	2	53	915113-6	Nut — Nylok $\frac{3}{8}$ -16	10
14	3517	Ball — Stop	2	54	933168	Roll Pin $\frac{3}{32}$ x $1\frac{1}{16}$	1
15	3518	Spring — Stop	1	55	909854-6	Set Screw Nylok $\frac{1}{4}$ -20 x $\frac{3}{4}$	1
16	3573	Shift Pin — Stop	1	56	915111-6	Nut — Hex $\frac{1}{4}$ -20 Nylok	1
17	1518	Bearing — Needle	2	57	3577	Boot — Shift Lever	1
18	1232	Seal — Brake Shaft	1	58	2709	Knob — Shift	1
19	5173	Gear (Hi & Inter.)	1	59	3902	Drum — Brake	1
20	5174	Gear (Low & Reverse)	1	60	937022	Key #15 Woodruff	1
21	5176	Shaft — Input	1	61	S-50-100	Snap Ring 1" Shaft	1
22	5175	Pinion Gear & Spline	1	62	4437	Band — Brake	1
23	3910	Shaft — Cluster	1	63	908002-4	Bolt — Hex $\frac{1}{4}$ -20 x $\frac{5}{8}$	2
24	937014	Key #9 Woodruff	3	64	920081-4	Lock Washer $\frac{1}{4}$ Dia.	2
25	3525	Gear — Cluster	1	65	4483	Ass'y. Shift Stick	1
26	1504	Bushing — Bronze	2	66	2707	Pulley	1
27	3528	Pinion — Cluster Shaft Reduction	1	67	909543-4	Set Screw Sq. Hd. $\frac{3}{16}$ -18 x $\frac{7}{8}$	1
28	3527	Gear — Cluster Shaft Reduction	1	68	915235-4	Nut — Jam $\frac{3}{16}$ -18	1
29	4204	Gear — Reverse Idler	1	69	909862-6	Set Screw $\frac{3}{16}$ -18 x $\frac{5}{16}$ Nylok	1
30	1516	Bushing — Bronze	1	70	908034-4	Bolt — Hex $\frac{3}{8}$ -16 x 1	4
31	3909	Pin — Reverse Idler	1	71	920083-4	Lock Washer $\frac{3}{8}$ Dia.	4
32	4166	Gear — Brake Shaft	1	72	1488	Hub — Rear Wheel	2
33	2821	Gear — Ring	1	73	909554-4	Set Screw Sq. Hd. $\frac{3}{8}$ -16 x 1	4
34	2822	Case — Differential — R.H.	1	74	937046	Key #RX Woodruff	2
35	2823	Case — Differential — L.H.	1	75	3935	Rod — Brake	1
36	2820	Gear — Axle	2	76	915605-4	Nut $\frac{3}{8}$ -16 Elastic Stop	1
37	933217	Roll Pin $\frac{1}{4}$ x $1\frac{1}{2}$	2	77	1487	Lug — Bolt	8
38	2819	Gear — Differential Pinion	2	78	943460-4	Plug $\frac{1}{4}$ Pipe	1
39	2827	Shaft Differential	1	79	S-52-3	Hair Pin	1
40	908044-4	Bolt — Hex $\frac{3}{8}$ -16 x 4	4				

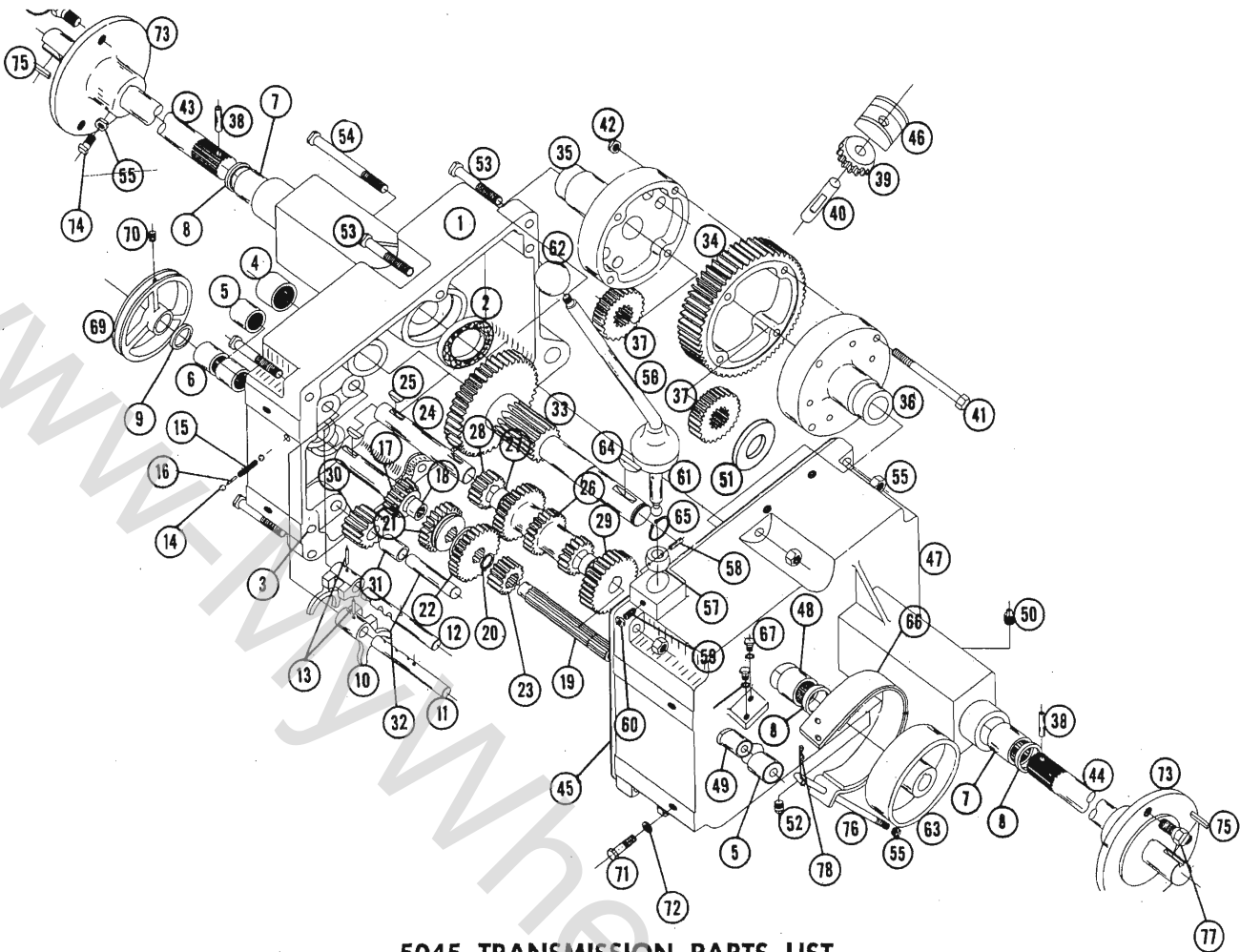


Transmission

### 5046 TRANSMISSION PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	3900	Case - Transmission	1	33	3903	Gear - Brake Shaft	1
2	1533	Bearing - Ball	1	34	3906	Gear - Bull	1
3	3915	Pin - Locating	2	35	3905	Case - Differential	2
4	1532	Bearing - Needle	1	36	3904	Axle - Rear	2
5	1529	Bearing - Needle	2	37	3908	Gear - Axle	2
6	1508	Bearing - Needle	2	38	933217	Pin - Roll $\frac{1}{4}$ x $1\frac{1}{2}$	2
7	1528	Bearing - Needle	2	39	4235	Gear - Differential Pinion	4
8	1232	Seal - Oil	3	40	1329	Cap Screw - Hex $\frac{3}{16}$ - 18 x $3\frac{1}{4}$	4
9	1303	Seal - Oil	1	41	1316	Nut - Hex - Lock $\frac{3}{16}$ - 18	4
10	3503	Fork - Shift	2	42	3912	Gasket	1
11	3515	Rail - Front Shift	1	43	3901	Case Transmission	1
12	3516	Rail - Rear Shift	1	44	1530	Bearing - Needle	1
13	933156	Pin - Roll $\frac{1}{8}$ x 1	2	45	1531	Bearing - Needle	1
14	3517	Ball - Stop	2	46	943460-4	$\frac{1}{4}$ Std. Pipe Plug	1
15	3518	Spring - Stop	1	47	943420-4	$\frac{3}{8}$ Std. Pipe Plug	1
16	3573	Shift Pin - Stop	1	48	908038-4	Bolt - Hex - $\frac{3}{8}$ - 16 x 2	5
17	3522	Gear - Input Drive	1	49	908043-4	Bolt - Hex - $\frac{3}{8}$ - 16 x $3\frac{1}{2}$	1
18	1518	Bearing - Needle	1	50	915113-6	Nut - Nylock $\frac{3}{8}$ - 16	6
19	3907	Shaft - Spline	1	51	4898	Stick - Shift	1
20	S-50-75	Snap Ring Truarc $\frac{3}{4}$ Shaft	1	52	3514	Collar - Shift	1
21	3523	Gear (Hi & Inter.)	1	53	933168	Pin - Roll $\frac{5}{32}$ x $1\frac{1}{16}$	1
22	3524	Gear (Low & Reverse)	1	54	909854-4	Screw - Soc. Hd. - Set $\frac{1}{4}$ - 20 x $\frac{3}{4}$	1
23	3526	Gear - Spline Shaft	1	55	915111-4	Nut - Hex Lock $\frac{1}{4}$ - 20	1
24	3910	Cluster - Shaft	1	56	3577	Boot - Shift Lever	1
25	937014	Key - #9 Woodruff	2	57	1001	Knob - Shift	1
26	3525	Gear - Cluster	1	58	3902	Drum - Brake	1
27	1504	Bushing - Bronze	2	59	937022	Key #15 Woodruff	1
28	3528	Pinion - Cluster Shaft Reduction	1	60	S-50-100	Snap Ring 1" Shaft	1
29	3527	Gear - Cluster Shaft Reduction	1	61	4437	Band - Brake	1
30	4204	Gear - Reverse Idler	1	62	908002-4	Bolt - Hex $\frac{1}{4}$ - 20 x $\frac{3}{8}$	2
31	1516	Bushing - Bronze	1	63	920081-4	Washer - Lock $\frac{1}{4}$	2
32	3909	Pin - Reverse Idler	5				

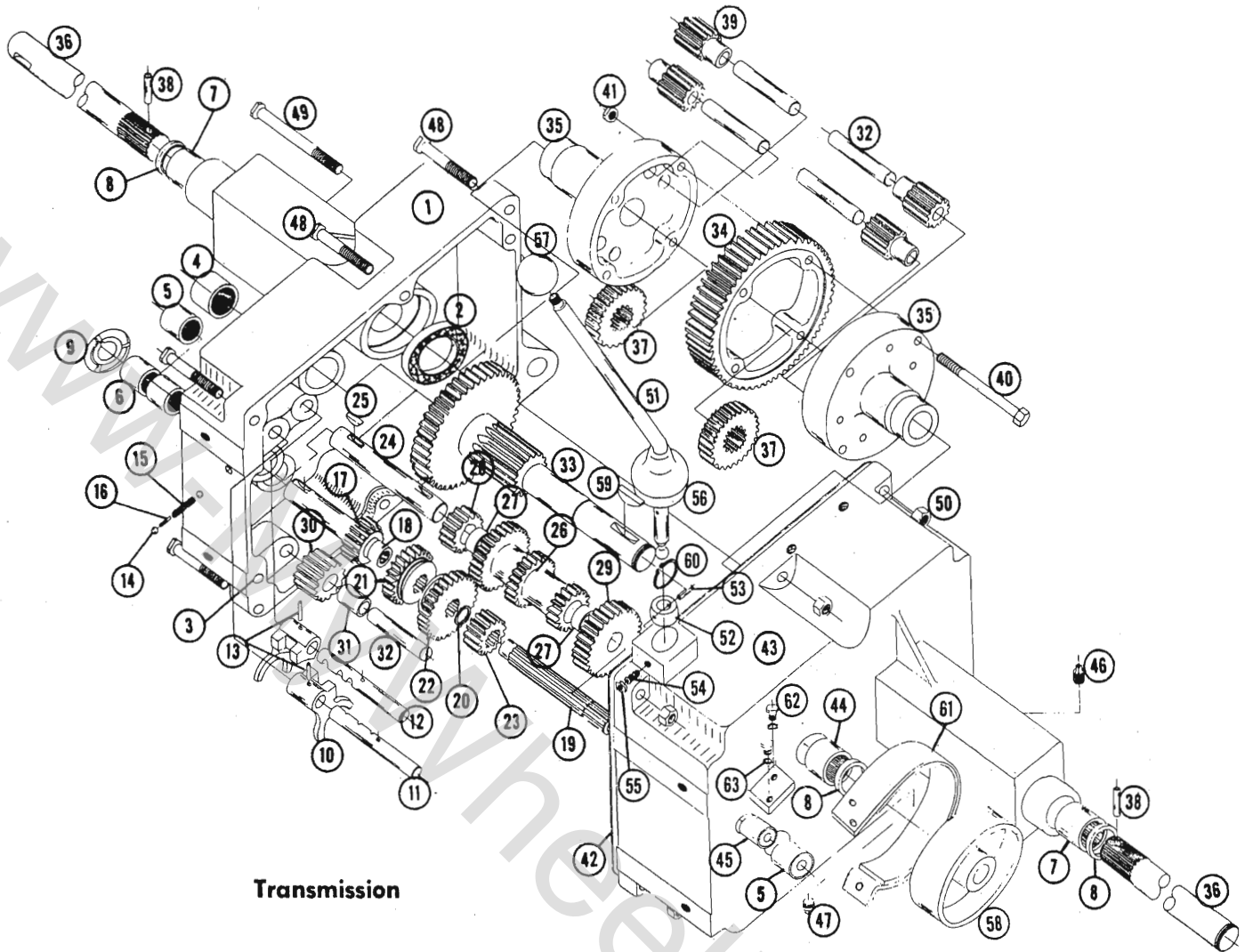


### 5045 TRANSMISSION PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	4160	Case - Transmission R.H.	1	40	2827	Shaft - Differential	1
2	1533	Bearing - Ball	2	41	908044-4	Cap Screw - Hex. $\frac{3}{8}$ -16 x 4	4
3	3915	Pin - Locating	2	42	1022	Nut - Hex. Hug - Lock $\frac{3}{8}$ -16	4
4	1532	Bearing - Needle	1	43	2824	Axle - Rear R.H.	1
5	1529	Bearing - Needle	2	44	2825	Axle - Rear L.H.	1
6	1508	Bearing - Needle	2	45	3912	Gasket	1
7	1526	Bearing - Needle	1	46	2826	Block - Differential	2
8	1213	Seal - Oil $1\frac{1}{8}$ I.D.	2	47	4161	Case - Transmission L.H.	1
9	1303	Seal - Oil $\frac{3}{4}$ I.D.	1	48	1530	Bearing - Needle	1
10	3503	Fork - Shift	2	49	1531	Bearing - Needle	1
11	3515	Rail - Front Shift	1	50	943460-4	Plug - $\frac{1}{4}$ Pipe	1
12	3516	Rail - Rear Shift	1	51	2828	Washer - Thrust	2
13	933156	Pin - Roll $\frac{1}{8}$ x 1	2	52	943420-4	Plug $\frac{3}{8}$ Pipe Sq. Hd.	1
14	3517	Ball - Stop	2	53	908038-4	Screw - Hex. Cap $\frac{3}{8}$ -16 x 2	5
15	3518	Spring - Stop	1	54	908043-4	Screw - Hex. Cap $\frac{3}{8}$ -16 x $3\frac{1}{2}$	1
16	3573	Shift Pin - Stop	1	55	915113-6	Nut - Nylock $\frac{3}{8}$ -16	9
17	3522	Gear - Input Drive	1	56	2726	Stick - Shift	1
18	1518	Bearing - Needle	1	57	3514	Collar - Shift	1
19	3907	Shaft - Spline	1	58	933168	Pin - Roll $\frac{3}{32}$ x $1\frac{1}{16}$	1
20	S-50-75	Snapping Truarc $\frac{3}{4}$ Shaft	1	59	909854-4	Screw - Soc. Hd. Set $\frac{1}{4}$ -20 x $\frac{3}{4}$	1
21	3523	Gear (Hi & inter)	1	60	915111-6	Nut - Hex. Lock $\frac{1}{4}$ -20 Nylock	1
22	3524	Gear (Low & Reverse)	1	61	3577	Boot - Shift Lever	1
23	3526	Gear - Spline Shaft	1	62	2709	Knob - Shift	1
24	3910	Cluster - Shaft	1	63	3902	Drum - Brake	1
25	937014	Key #9 Woodruff	3	64	937022	Key #15 Woodruff	1
26	3525	Gear - Cluster	1	65	S-50-100	Snap Ring 1" Shaft	1
27	1504	Bushing - Bronze	2	66	4437	Band - Brake	1
28	3528	Pinion - Cluster Shaft Reduction	1	67	908002-4	Screw - Hex. Cap C.P. $\frac{1}{4}$ -20 x $\frac{5}{8}$	2
29	3527	Gear - Cluster Shaft Reduction	1	68	920081-4	Washer - C.P. $\frac{1}{4}$	2
30	4204	Gear - Reverse Idler	1	69	2707	Pulley	1
31	1516	Bushing - Bronze	1	70	909862-4	Set Screw $\frac{3}{16}$ -18 x $\frac{5}{16}$	2
32	3909	Pin - Reverse Idler	1	71	908035-4	Bolt - Hex. $\frac{3}{8}$ -16 x $1\frac{1}{4}$	4
33	4166	Gear - Brake Shaft	1	72	920083-4	Lockwasher $\frac{3}{8}$ Dia.	4
34	2821	Gear - Ring	1	73	1488	Hub - Rear Wheel	2
35	2822	Case - Differential R.H.	1	74	909554-4	Set Screw - Sq. Hd. $\frac{3}{8}$ -16 x 1	2
36	2823	Case - Differential L.H.	1	75	1349	Key - Straight $\frac{1}{4}$ x $\frac{1}{4}$ x $1\frac{1}{2}$	2
37	2820	Gear - Axle	2	76	3935	Rod - Brake	1
38	933217	Pin - Roll $\frac{1}{4}$ x $1\frac{1}{2}$	2	77	1487	Lug Bolt - Wheel Hub	8
39	2819	Gear - Differential Pinion	2	78	S-52-3	Hair Pin	1



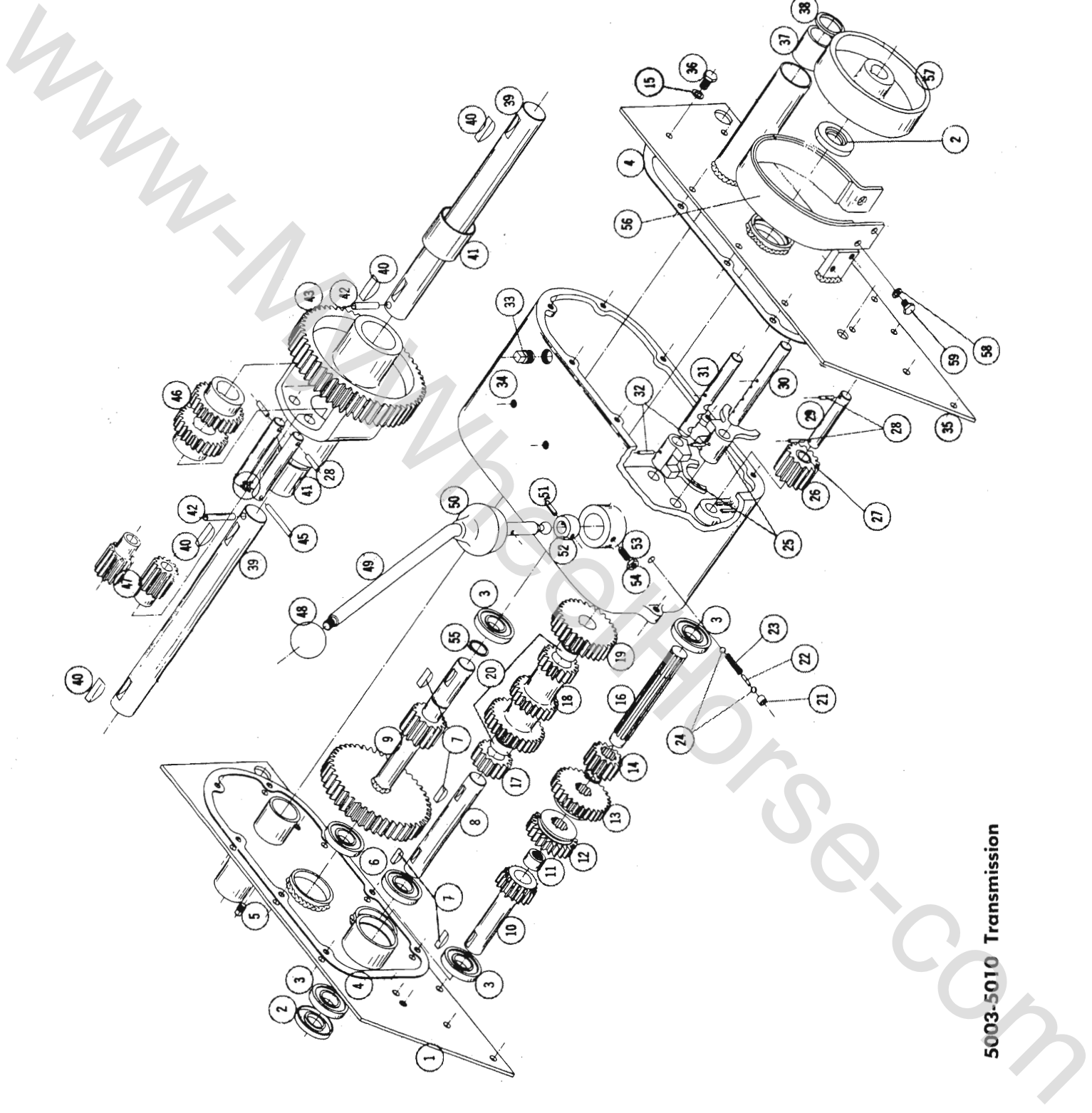


**Transmission**

**5025 TRANSMISSION PARTS LIST**

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
1	3900	Case - Transmission	1	33	3903	Gear - Brake Shaft	1
2	1533	Bearing - Ball	1	34	3906	Gear - Bull	1
3	3915	Pin - Locating	2	35	3905	Case - Differential	2
4	1532	Bearing - Needle	1	36	3904	Axle - Rear	2
5	1529	Bearing - Needle	2	37	3908	Gear - Axle	2
6	1508	Bearing - Needle	2	38	933217	Pin - Roll $\frac{1}{4} \times 1\frac{1}{2}$	2
7	1528	Bearing - Needle	2	39	4235	Gear - Differential Pinion	4
8	1232	Seal - Oil	3	40	1329	Cap Screw - Hex $\frac{3}{16}$ - 18 x $3\frac{1}{4}$	4
9	1303	Seal - Oil	1	41	1316	Nut - Hex - Lock $\frac{3}{16}$ - 18	4
10	3503	Fork - Shift	2	42	3912	Gasket	1
11	3515	Rail - Front Shift	1	43	3901	Case Transmission	1
12	3516	Rail - Rear Shift	1	44	1530	Bearing - Needle	1
13	933156	Pin - Roll $\frac{1}{8} \times 1$	2	45	1531	Bearing - Needle	1
14	3517	Ball - Stop	2	46	943460-4	$\frac{1}{4}$ Std. Pipe Plug	1
15	3518	Spring - Stop	1	47	943420-4	$\frac{3}{8}$ Std. Pipe Plug	1
16	3573	Shift Pin - Stop	1	48	908038-4	Bolt - Hex - $\frac{3}{8}$ - 16 x 2	5
17	3522	Gear - Input Drive	1	49	908043-4	Bolt - Hex - $\frac{3}{8}$ - 16 x $3\frac{1}{2}$	1
18	1518	Bearing - Needle	1	50	915113-6	Nut - Nylock $\frac{3}{8}$ - 16	6
19	3907	Shaft - Spline	1	51	5278	Stick - Shift Ass'y.	1
20	S-50-75	Snap Ring Truarc $\frac{3}{4}$ Shaft	1	52	3514	Collar - Shift	1
21	3523	Gear (Hi & Inter.)	1	53	933168	Pin - Roll $\frac{5}{32} \times 1\frac{1}{8}$	1
22	3524	Gear (Low & Reverse)	1	54	1239	Screw - Sac. Hd. - Set $\frac{1}{4}$ - 20 x $\frac{3}{4}$	1
23	3526	Gear - Spline Shaft	1	55	915111-4	Nut - Hex Lock $\frac{1}{4}$ - 20	1
24	3910	Cluster - Shaft	1	56	3577	Boot - Shift Lever	1
25	937014	Key - #9 Woodruff	2	57	1001	Knob - Shift	1
26	3525	Gear - Cluster	1	58	3902	Drum - Brake	1
27	1504	Bushing - Bronze	2	59	937022	Key #15 Woodruff	1
28	3528	Pinion - Cluster Shaft Reduction	1	60	S-50-100	Snap Ring 1" Shaft	1
29	3527	Gear - Cluster Shaft Reduction	1	61	4437	Band - Brake	1
30	4204	Gear - Reverse Idler	1	62	908002-4	Bolt - Hex $\frac{1}{4}$ - 20 x $\frac{5}{8}$	2
31	1516	Bushing - Bronze	1	63	920081-4	Washer - Lock $\frac{1}{4}$	2
32	3909	Pin - Reverse Idler	5				



5003-5010 Transmission

# 5003 - 5010 TRANSMISSION

When ordering parts always list Part No. and name of part.

(Specifications subject to change without notice.)

Ref. No.	Part No.	Description	No. Req'd.	Ref. No.	Part No.	Description	No. Req'd.
** 1	3504	Right Transmission Cover	1	31	3516	Shift Rail — Rear	1
2	1234	Oil Seal	2	32	933156	Roll Pin $\frac{1}{8}$ x 1	2
** 3	1519	Ball Bearing	4	33	1013	Pipe Plug	1
4	3536	Gasket Transmission	2	34	3501	Transmission Housing	1
5	1108	Pipe Plug $\frac{1}{8}$ "	1	** 35	3509	Left Transmission Cover	1
6	1502	Ball Bearing	3	36	908016-4	Hex Bolt $\frac{5}{16}$ -18 x $\frac{5}{8}$	18
7	1122	No. 9 Woodruff Key	4	37	1503	Bronze Bearing	2
8	3533	Cluster Shaft	1	38	1257	Oil Seal	2
*** 9	3559	Brake Shaft and Gear	1	39	3532	Axle	2
10	3522	Input Gear	1	40	937022	Key — Woodruff No. 15	4
11	1518	Needle Bearing	1	41	1517	Bronze Bearing	2
* 12	3523	Hi & Second Gear	1	42	933217	Roll Pin $\frac{1}{4}$ x $1\frac{1}{2}$	2
* 13	3524	Low & Reverse Gear	1	**** 43	3502	Differential Case and Gear	1
* 14	3526	Splined Pinion	1	44	3535	Differential Pins	4
15	920082-4	Lockwasher $\frac{5}{16}$ Dia.	18	45	933194	Roll Pin $\frac{3}{16}$ x $1\frac{3}{4}$	2
* 16	3521	Spline Shaft	1	46	3530	Axle Gear — Differential	2
17	3528	Cluster Shaft Reduction Pinion	1	47	3531	Spider Gear — Differential	4
18	3525	Cluster Gear	1	48	1001	Knob	1
19	3527	Cluster Shaft Reduction Gear	1	49	3538	Lever — Shift	1
20	1504	Bronze Bearing	2	50	3577	Boot — Shift Lever	1
21	1243	Cup Plug $\frac{5}{16}$	1	51	933168	Roll Pin $\frac{5}{32}$ x $1\frac{1}{8}$	1
22	3573	Pin — Shift Stop	1	52	3514	Collar — Shift Lever	1
23	3518	Spring — Shift Stop	1	53	1239	$\frac{1}{4}$ -20 x $\frac{3}{4}$ Dog Point Set Screw	1
24	3517	Ball — Stop	2	54	915111-6	Nut — Hex $\frac{1}{4}$ -20	1
25	3503	Shift Fork	2	55	936125	Snap Ring $\frac{3}{4}$ " Truarc	1
26	3520	Reverse Idler Gear with Bearing	1	56	3543	Brake Band with Liner	1
27	1516	Bearing — Reverse Idler Gear	1	57	3540	Brake Drum	1
28	933188	Roll Pin $\frac{3}{16}$ x 1	6	58	920081-4	Lockwasher $\frac{1}{4}$ " Dia.	2
29	3519	Reverse Idler Pin	1	59	908002-4	Hex Bolt $\frac{1}{4}$ -20 x $\frac{5}{8}$	2
30	3515	Shift Rail — Front	1				

\*See Service Note #3

\*\*See Service Note #1

\*\*\*See Service Note #2 & 4

\*\*\*\*See Service Note #5

# 5003 AND 5010 SERVICE NOTES

## 1. TRANSMISSION COVERS

All #5003 production transmissions and the early #5010 transmissions were equipped with ball bearings on the brake shaft. Late #5010 transmissions and replacement transmissions of both models were produced with needle bearings. To insure receiving the correct side covers, please order as follows:

PART NO.	DESCRIPTION	USED ON	TYPE OF BEARING	OIL SEAL
#3504	RIGHT COVER	ALL		
#3509-59	LEFT COVER	#5003	#1519 BALL BEARING	#1234
#3509-59A	LEFT COVER	#5003	#1508 NEEDLE BEARING	#1303
#3509-60	LEFT COVER	#5010	#1519 BALL BEARING	#1234
#3509-60A	LEFT COVER	#5010	#1508 NEEDLE BEARING	#1303

## 2. #3559 BRAKE SHAFTS

- A. Original equipment brake shafts used in ball bearing type transmissions cannot be used with needle bearing side covers.
- B. Presently stocked brake shafts and those used in needle bearing transmissions are interchangeable. To install in ball bearing transmissions, use four 1197 Shim Washers between the brake shaft gear and the left side cover plate.

## 3. SPLINE SHAFT AND MATCHING GEARS

All tractors and replacement transmissions produced previous to tractor Serial No. 11628, contain Part No. 3521 Spline Shafts with 10 straight sides splines and matching gears, Part Nos. 3523, 3524 and 3526.

All tractors and replacement transmissions produced after tractor serial number 11628, contain Part No. 3521 Spline Shafts with 11 involute tooth form splines and matching gears, Part Nos. 3523, 3524 and 3526. The matching gears for the two types of Spline Shafts are NOT inter-changeable, although the part numbers are identical.

It is suggested that, when ordering the #3523 High and Second Gear, the #3524 Low and Reverse Gear or the #3526 Splined Pinion Gear, the number of Splines on the #3521 Spline Shaft be noted. This will eliminate the possibility of receiving gears which will not assemble on the Spline Shaft. The ordering of the #3521 Spline Shafts should be handled in the same manner.

## 4. #3559 BRAKE SHAFT

The #3559 brake has been replaced with brake shaft 3559B. The new shaft has more strength and able to carry more load.

5. The #3502 differential case and gear has been replaced with part #7243. A Kit #6076 is available which includes the #7243 differential gear and the new brake shaft #3559B. See Figure A.

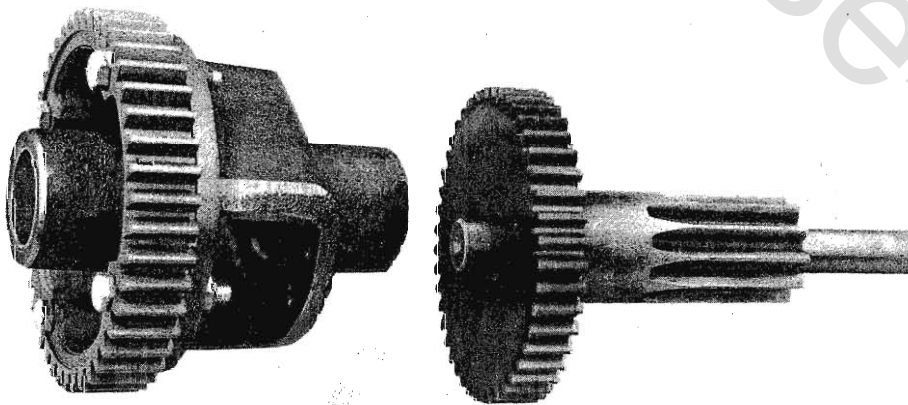


FIGURE A

## SERVICE NOTES

### SPECIFICATIONS

(Specifications subject to change without notice.)

All Dimensions in Inches	1054	854		753		702	
	953	704 654 604	34E 34R	653 633 603	33E 33R	552 502	32E 32R
Length Overall	69	60	54	61	54	61	54
Wheel Base	47	41¼	41¼	41¼	41¼	41¼	41¼
Width Overall	36½	30	26¾	30	26¾	30	26¾
Width Overall W/Mower			33½		33½		33½
Width At Front Wheels	33	31¼	27	*31½	24¾	28½	24¾
Height	42	37	32	36½	33½	36½	33½
Height To Top Of Hood	35	32	28¾	32	28¾	32	28¾
Net Weight (Approx.)	650	400	380	380	350	370	350
Crop Clearance	9½	7¼	—	7¼	—	7¼	—
Frame Clearance	13¼	13½	10¾	13½	10¾	13½	10¾
Engine Horse Power	10, 9.6	8, 7, 6	6	7, 6	6	7, 5½	5½
Fuel Capacity (Gal.)	2¾	1	1	1	1	1	1
Tires (Front) Size	4.00 x 8	4.00 x 8	3.50 x 4	4.00 x 8	3.50 x 4	4.00 x 8	3.50 x 4
Tires (Front) Pressure (P.S.I.)	20	20	15	20	20	20	—
Tires (Rear) Size	6.40 x 15	6.00 x 12	4.00 x 8	6.00 x 12	4.00 x 8	6.00 x 12	4.00 x 8
Tires (Rear) Pressure (P.S.I.)	6-8	6-8	6-8	6-8	6-8	6-8	6-8

\*Model 603-28½"

All Engines 4 Cycle, Single Cylinder, Air Cooled

### LUBRICATION

All models have pressure fittings at some or all of the following locations:

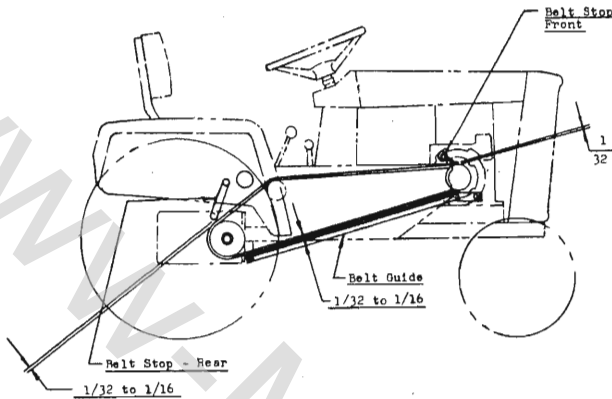
1. Steering Column top and bottom
2. Front wheel bearings
3. Front axle (center)
4. Front axle spindles
5. Steering gear sector
6. Steering Tie rod ends
7. Mower blade spindles (Lawn Ranger)
8. Clutch idler Pulley

Lubricate every 8 to 10 hours of operation. Use light oil on other moving parts at the same interval. Check transmission oil level after every 40 hours of operation. Remove oil filler plug at left rear side of the transmission and fill to level of hole with a good grade of S.A.E. 40 gear or engine oil. Drain and refill once each year.

## SERVICE NOTES

### GENERAL MAINTENANCE

#### 1054 & 953 MODELS

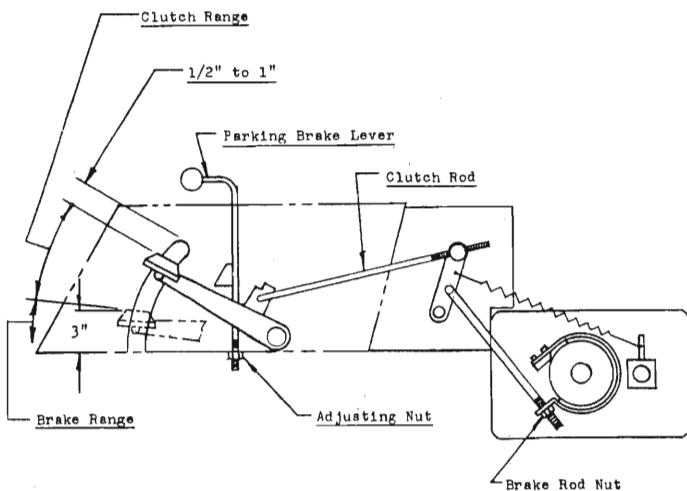


**ADJUSTMENT OF BELT GUIDES:** Belt guide part 4195 attaches to the frame and to the side of the engine and runs along the bottom side of drive belt. This guide should be adjusted so that there is  $\frac{1}{32}$ " to  $\frac{1}{16}$ " clearance between the belt and the guard.

Rear Belt Stop part 4486 fits inside the right rear fender and extends down to the top of the drive belt on transmission pulley. This belt stop should be adjusted so that it is  $\frac{1}{32}$ " to  $\frac{1}{16}$ " away from the top of the belt.

Front Belt Stop part 4796 fits on the engine and extends down to the belt on the engine pulley. It should be adjusted so that it is  $\frac{1}{32}$ " away from the top of the belt.

**BRAKE ADJUSTMENT:** The brake band, located on the left side of the transmission, brakes the transmission and in turn stops the wheels. Adjust the nut on the brake rod so that, when you depress the clutch pedal all the way down, the band tightens around the brake drum just as the idler pulley releases the belt. Keep brake band and drum free from oil and dirt.



### IMPORTANT: Adjustment of Clutch Brake Pedal.

1. Adjust Pedal to  $\frac{1}{2}$ " to 1" position by adjusting Clutch Rod. 2. Depress Pedal to approximately the 3" dimension and swing Parking Brake Lever until it holds Pedal at the 3" position. 3. Tighten Brake Rod Nut until Brakes lock. 4. This procedure must be followed after 10-15 hours of operation on initial run-in of Tractor. This adjustment should be repeated if the Clutch Pedal approaches the top of the slot in the Belt Shield. Failure to adjust may result in failure of the main Drive Belt.

**PARKING BRAKE ADJUSTMENT:** After brake band and clutch-brake pedal have been adjusted, depress pedal until tractor brakes are locked. Pull parking brake lever back and adjust nut on bottom of lever shaft until lever will engage and hold pedal down.

**HYDRAULIC BELT ADJUSTMENT:** Proper belt tension is maintained by removing the right hand belt guard and loosening the four (4) bolts holding the pump body to the frame. Pump may now be moved forward and backward to adjust belt.

### CARE OF THE TRACTOR

Keep tractor greased and oiled regularly. See previous instructions for location of grease fittings, Check transmission and engine case oil levels.

Keep engine air filter clean. Dirty filters use excessive fuel and reduces engine power and life.

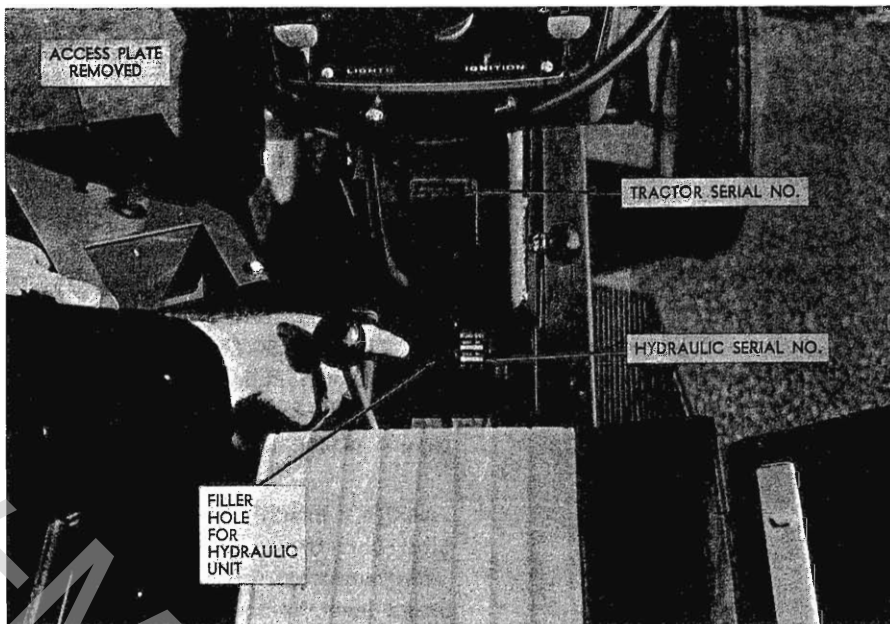
Keep tires properly inflated.

Keep tractor covered and in a dry place when not in use.

Check battery liquid after every 40 hours of use. If tractor has been in storage it may be necessary to recharge.

Your tractor is only as good as the service you give it. See your Wheel Horse dealer for a thorough check-up after each season of use.

When replacing belts it is advisable to purchase them from your Wheel Horse dealer, as these belts are specifically designed for each tractor or attachment. A new drive belt may have a tendency to squeak during clutching, this will stop after an hour or two of operation as the belt seats in the pulley.



## HYDRAULIC UNIT

### DESCRIPTION

The Hydraulic Unit system built into your tractor is designed to give you hydraulic power for your attachments with fingertip control. This unit is a completely self-contained hydraulic gear pump, directional control valve and oil reservoir; with a companion hydraulic cylinder and hoses connecting the power unit with the cylinder. The unit has a built-in safety valve to eliminate overloading of the hydraulic system and tractor attachments.

### SERVICING PUMP

You must **ADD OIL** before starting engine to avoid damage to pump. Remove filler plug and fill to top of hole with fluid. **NOTE:** Filler plug is mounted off the vertical center line of the unit. This is to prevent over filling. An air space must be left in the top of tank, so no attempt should be made to completely fill reservoir. **USE ONLY WHEEL HORSE OIL** (Number 4822). Replace plug and tighten.

### OPERATION

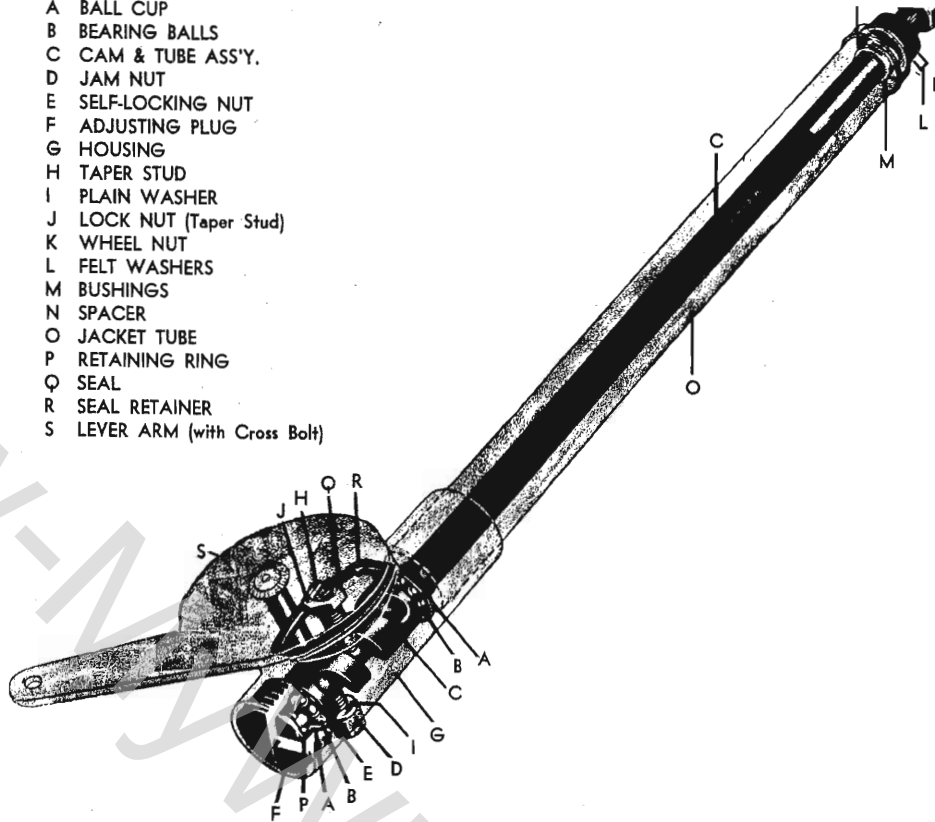
To raise tractor attachments, pull handle toward you, upon release of handle it will return to the center or neutral position. A slightly sluggish action of the control lever returning to neutral may exist during the break-in period. A few hours of running time will eliminate this. After running unit a short time, check all fittings for fluid leaks.

**IMPORTANT** — Never run unit without fluid or warranty will be voided. If unit is taken apart for service make sure all parts are clean before assembling unit. After service it is advisable to install new fluid. When raising or lowering attachments, after unit is either up or down, make sure handle is in neutral. Never hold open as this will cause harm to unit over a period of time.

### TROUBLE SHOOTING CHART

Trouble	Probable Cause	Remedy
Slow action with tractor engine at operating speed	Belt slipping	Tighten Belt
	Improper type of oil	Replace Oil
	Low Oil Supply	Fill oil to proper level
	Air lock	Loosen allen screw on top and operate to release air
	Slow engine RPM	Speed engine
Attachment not holding in raised position	Oil leak in system	Check all connections
	Improper type of oil	Use Wheel Horse (4822)
	Oil leak at seals	Replace
Excessive noise or chattering	Insufficient oil	Fill with proper oil
	Unit run at too high a RPM	Reduce shaft speed to recommended speed as originally equipped
	Improper oil	Drain and refill system with correct oil (4822)
Excessive Heating	Restriction in the system such as kinked or pinched lines	Replace defective hoses. Straighten kinked hoses and check fittings for obstruction
	Insufficient oil	Fill with 4822 to proper level
Unit does not operate	Low Oil	Check and fill
	"O" Rings worn in pump and cylinder	Replace with new "O" Rings
	Pulley loose on pump	Tighten

- A BALL CUP
- B BEARING BALLS
- C CAM & TUBE ASS'Y.
- D JAM NUT
- E SELF-LOCKING NUT
- F ADJUSTING PLUG
- G HOUSING
- H TAPER STUD
- I PLAIN WASHER
- J LOCK NUT (Taper Stud)
- K WHEEL NUT
- L FELT WASHERS
- M BUSHINGS
- N SPACER
- O JACKET TUBE
- P RETAINING RING
- Q SEAL
- R SEAL RETAINER
- S LEVER ARM (with Cross Bolt)



## 953 ADJUSTMENT AND LUBRICATION OF STEERING GEAR

### ADJUSTMENTS

When making adjustment free the steering gear of all load, preferably by disconnecting the lever arm, and loosen the bracket clamp on steering gear jacket tube.

If the ball thrust bearings (A, B) on the cam (C) must be adjusted, make the adjustment I before making the side adjustment II.

#### I. ADJUSTMENT OF BALL THRUST BEARINGS ON CAM.

Adjust to a barely perceptible drag but allow the steering wheel to turn freely (with the thumb and forefinger lightly gripping the rim).

Before making this adjustment, loosen (approx. 2 turns) the jam nut (D) and the cross bolt self-locking nut (E) to free the taper stud in the cam groove.

Using a "wide blade" screw driver carefully turn clockwise the adjustable plug (F) in the bottom end of the housing (G) and, at the same time, test the adjustment by turning the steering wheel as described above. When adjustment is correct, restake adjusting plug.

Follow this with Adjustment No. II.

#### II. ADJUSTMENT FOR MINIMUM BACKLASH OF TAPERED STUD IN CAM GROOVE. (See Fig. I for access hole.)

Adjust so that a very slight drag is felt through the mid-position while turning the steering wheel slowly from one extreme position to the other.

Backlash of stud (H) in the groove shows up as backlash at steering wheel and at end of lever arm (Fig. I).

The groove in the cam (C) is purposely cut shallower, therefore narrower, in the mid-position range of stud travel to provide close adjustment where usually the straight-ahead-driving action takes place. It also makes this close adjustment possible after normal wear occurs without causing a bind elsewhere.

Therefore, adjust through the mid-position. Do not adjust in the end positions as backlash at these points is normal and not objectionable.

To adjust to take up backlash, slide a .100" thick spacer between lever and housing face. Tighten self-locking nut (E) (approx. 30-35 inch lbs.) until space is tight. Loosen nut just enough to remove the spacer. Then assemble jam nut (D) and tighten to 40 pounds torque. Next, loosen lock nut (J) on taper stud (H). With gear in straight-ahead position, turn stud (H) clockwise until adjustment is correct. Hold stud from turning and tighten nut (J) to 40 ft. lbs. torque. Give gear final test by turning through full range of travel.

Secure the gear at all points loosened prior to making the adjustment. Also check tightness of mounting bolts and nuts. CAUTION: Steering gear mounting bolts should be torqued 25-30 ft. lbs. max. (See Fig. II for access holes.) With all supporting brackets clamped tight, turn steering wheel to see if any stiffness exists. If so, the column is probably out of alignment and needs correcting. (Refer paragraph on "Column Alignment.")

### LUBRICATION

Lubricate through the fitting in the housing. Fill housing slowly until lubricant begins to seep out. Keep housing full by adding lubricant periodically according to usage. Note: The gear is designed to use a "semi-fluid" lubricant.

### COLUMN ALIGNMENT

Alignment of the column is of paramount importance. The STEERING COLUMN MUST NOT BE SPRUNG IN ANY DIRECTION FROM ITS FREE POSITION. To determine whether misalignment exists, release upper column bracket and note whether the column moves to a different position, its free position. If it does, it has been out of line and should be re-clamped in the new position. Caution: If the column has been permanently bent because of severe misalignment, the above test may not be reliable, and replacement of the tubes will be necessary.



All drawn implements attach in seconds. Simply lift the tractor hitch pin, insert the tongue, and replace pin.

All power implements will use the attachment clutch pedal located on the right side of the tractor.

#### CARE OF TRACTOR

1. Keep tractor greased and oiled regularly. Refer to Figure 1 for the location of grease fittings. Check transmission and engine case oil levels.

2. Keep engine air cleaner clean. This will add to engine life.

3. Keep tires properly inflated. See previous instructions.

4. Keep tractor covered and in a dry place when not in use.

5. Keep grass and dirt out of engine cowling as these will stop the flow of air and decrease engine life.

6. BRAKE ADJUSTMENT. The brake band, located on the left side of the transmission, brakes the transmission and in turn stops the wheels.

8. When replacing belts or mounting drive implements make sure all pulleys are in line.

9. BATTERY. Check liquid after every 40 hours of use. If tractor has been in storage it may be necessary to recharge.

10. Your tractor is only as good as the service you give it. See your Wheel Horse Dealer for a thorough check-up after each season of use.

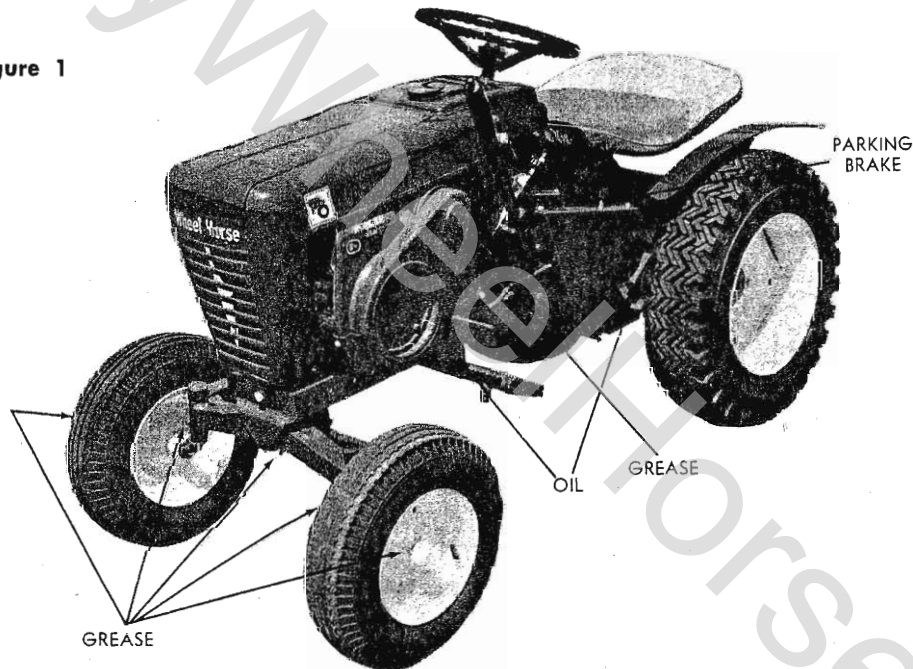
11. When replacing belts be sure to purchase genuine Wheel Horse belts, as these belts are specifically designed for each application.

(NOTE: Make sure all pulleys are in line.)

#### FOR YOUR SAFETY

- A. Keep all guards on at all times.
- B. Never abuse your tractor by improper handling.
- C. Keeps hands and feet from moving parts.
- D. Remove key when not in use.
- E. Be careful on high uneven ground.

Figure 1



To adjust, depress clutch brake pedal and move parking brake lever forward into the engaged position. Tighten nut on brake rod until both rear wheels skid when tractor is pushed — parking brake engaged. Tighten nut another  $\frac{1}{2}$  turn. The brake and parking brake are now properly adjusted.

7. CLUTCH-BRAKE PEDAL ADJUSTMENT. The clutch-brake pedal rod may be turned in or out to adjust the pedal to operator's desired position. Remove pin from rod and turn rod in or out for adjustment. There are also two holes in the pedal to adjust for travel. The upper hole is for a short movement of travel, the lower hole is for a long movement.

Lubricate all grease fittings with a regular pressure gun lubricant every eight to ten hours of operation. Refer to Figure 1 for the location of grease fittings.

A light machine oil should be used on all moving parts to keep joints from wearing and squeaking.

Remove oil filler plug, located at the left rear side of the transmission, and fill to level of hole with a good grade of S.A.E. 40 Gear Lube (will require about 3 pints).

The transmission should be checked after every 40 hours of use. The transmission should be drained once a year by removing plug on bottom to drain oil. Refill as above paragraph. This is a regular automotive type transmission with sliding gears and should have the same care as your car.

www-MyWhisperHorse-com

