

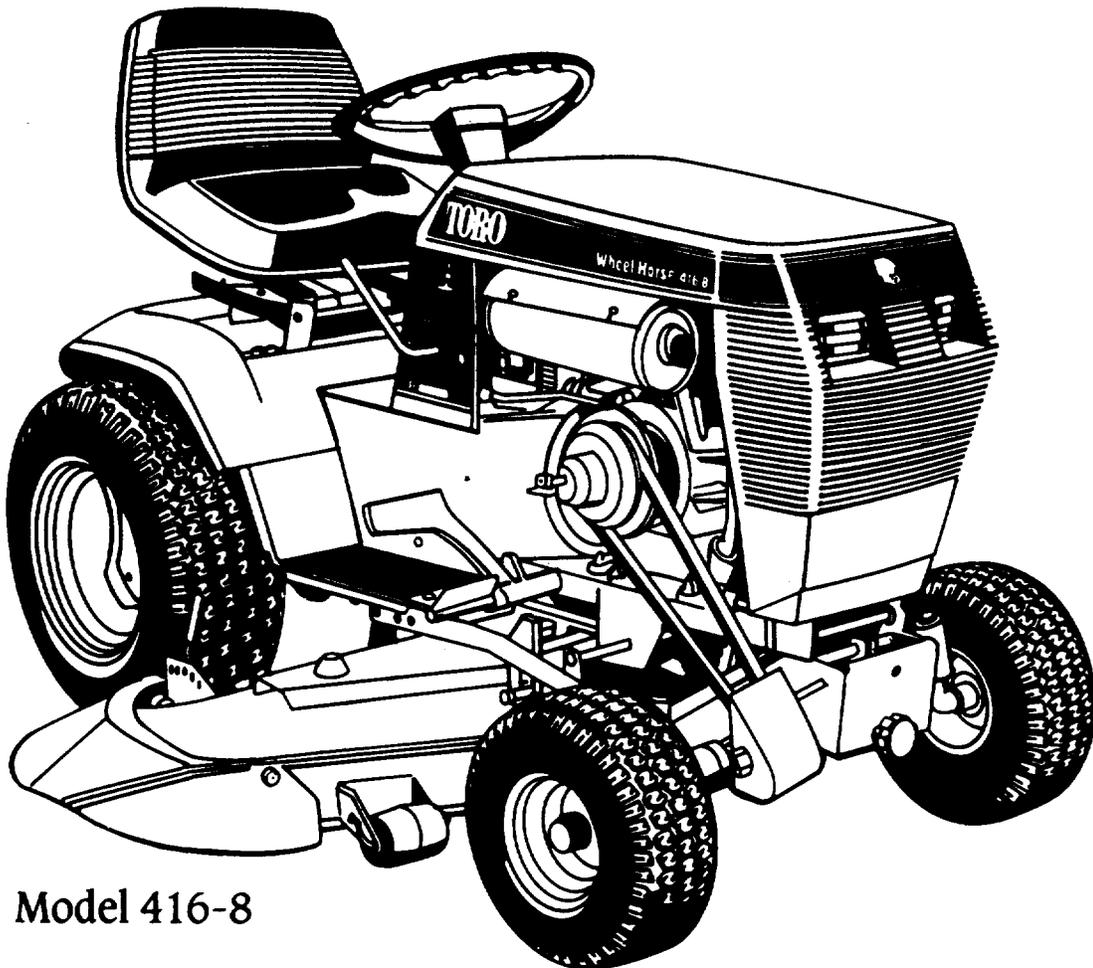


MODEL NO. 31-10K802
MODEL NO. 31-12K902
MODEL NO. 31-16O803
MODEL NO. 51-12KE01
MODEL NO. 51-16OE01

**PARTS
CATALOG**

WHEEL HORSE®

310-8, 312-8, 416-8, 312-H, 416-H LAWN TRACTOR

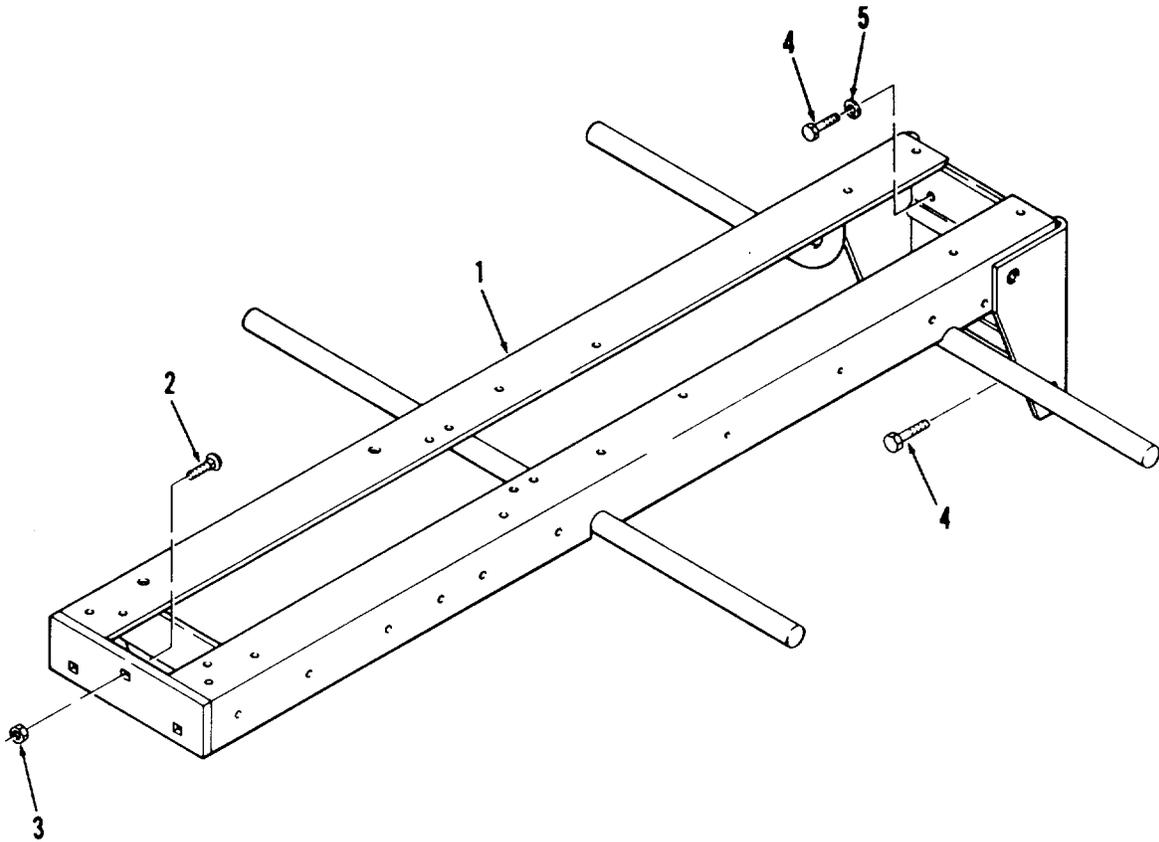


Model 416-8

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SECTION 1 - FRAME



0103

SECTION 1 - FRAME

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 1-1 FRAME	
1	78-2680	Frame	1
2	900064	Carriage Bolt 3/8-16 x 1 1/4	3
3	915663	E.S. Nut 3/8-16	3
4	908033	Bolt 3/8-16 x 7/8	4
5	920083	Lockwasher 3/8	4

SECTION 3 8-SPEED TRANSMISSION

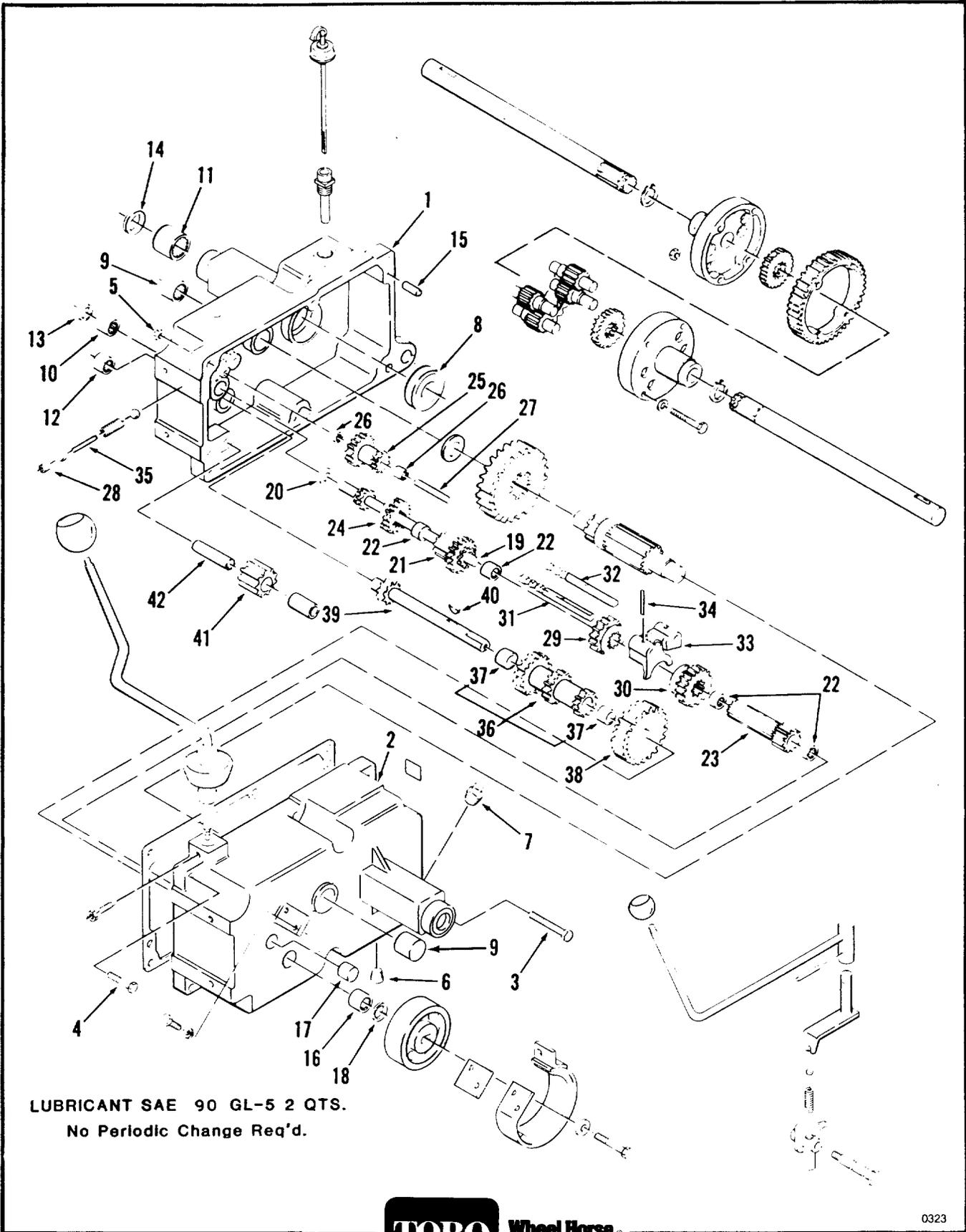


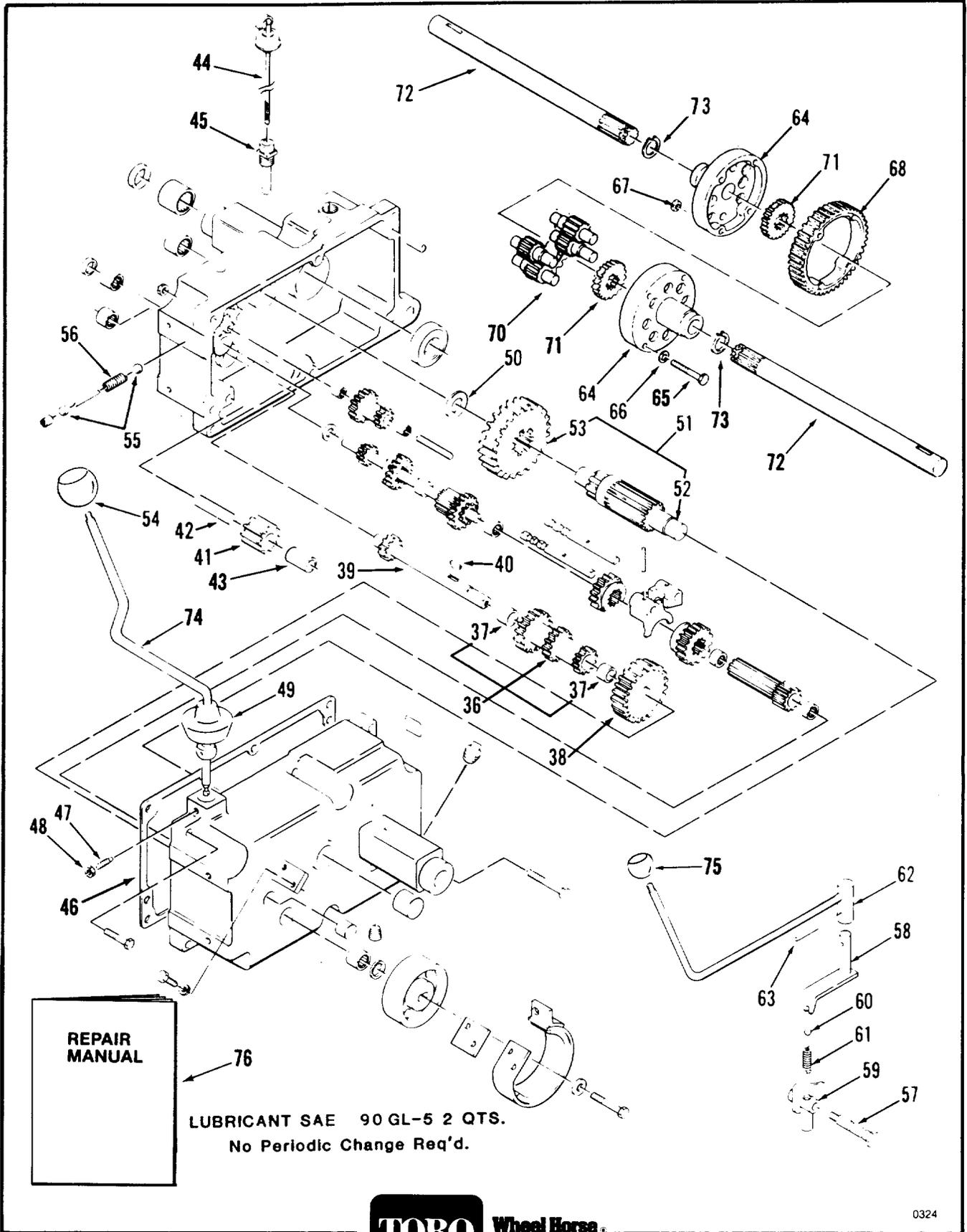
FIGURE 3-1 MECHANICAL TRANSMISSION 8-SPEED

SECTION 3 8-SPEED TRANSMISSION

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 3-1 MECHANICAL TRANSMISSION 8-SPEED	
	110996	Assembly 8-Speed Transmission 310 Only	1
	110995	Assembly 8-Speed Transmission 312/400-Series	1
1	111204	Case-Trans RH 310-8 *	1
	111200	Case-Trans RH 312-8,416-8	1
2	111203	Case-Trans LH 310-8 *	1
	111198	Case-Trans LH 312-8,416-8	1
3	908044	Bolt 3/8-16 x 4	1
4	908039	Bolt 3/8-16 x 2 1/4	5
5	915663	E.S. Nut 3/8-16	6
6	943460	Allen Hd Pipe Plug 1/4	1
7	943420	Sq Hd Pipe Plug 3/8	1
8	111199	Ball Brg. 40mm ID	2
9	1532	Needle Bearing 1 ID	2
10	1542	Needle Bearing 5/8 ID	1
11	1528	Needle Bearing 1 ID 310 *	2
	9416	Needle Bearing 1 1/8 ID 312-8, 416-8	2
12	1529	Needle Bearing 3/4 ID	1
13	100442	Seal-Input Shaft 5/8 ID	1
14	100863	Seal-Axle 1 ID X 1-1/4 OD 310 *	4
	100443	Seal-Axle 1 1/8 ID X 1-3/8 OD 312-8,416-8	2
15	3915	Locating Pin	2
16	1523	Needle Bearing 3/4 ID	1
17	1531	Needle Bearing 5/8 ID	1
18	100441	Seal-Brake Shaft 3/4 ID	1
19	7201	Input Shaft	1
20	7418	Thrust Washer	1
21	7204	Gear	1
22	1518	Needle Bearing 5/8 ID	4
23	5175	Gear	1
24	7205	Sliding Gear	1
25	7206	Reduction Gear	1
26	7207	Needle Bearing 3/8 ID	2
27	7208	Shaft-Reduction Gear	1
28	1243	Plug Cup	1
29	5173	Gear 2nd and 3rd	1
30	5174	Gear 1st and Reverse	1
31	5615	Shift Rail-Front	1
32	5616	Shift Rail-Rear	1
33	3503	Shift Fork	2
34	933156	Spirol Pin 1/8 x 1	2
35	5614	Shift Pin	1

* 310-8 Serial No's 11752 Thru 11755 Use Part Lsted for 312/416 Models.

SECTION 3 8-SPEED TRANSMISSION

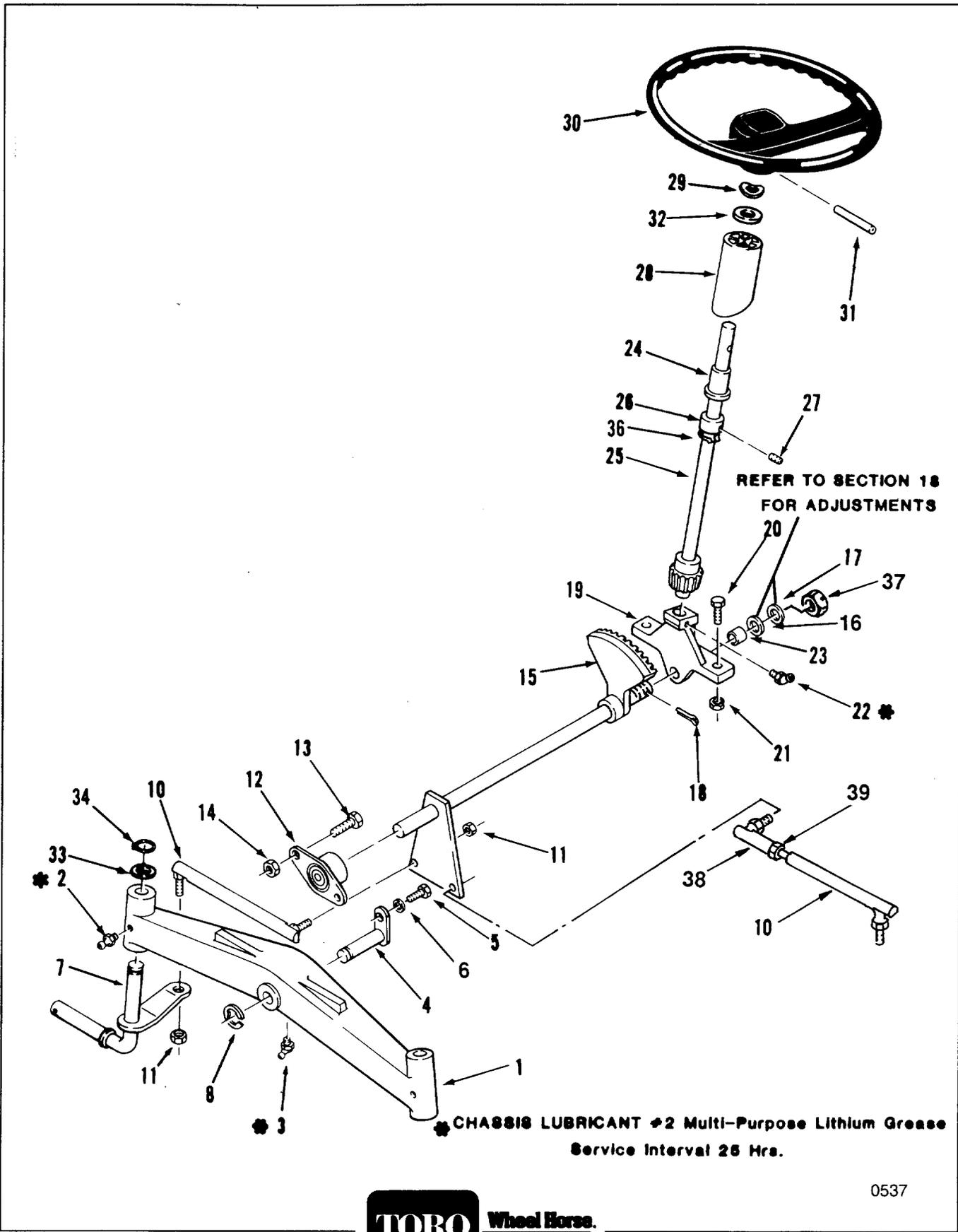


SECTION 3 8-SPEED TRANSMISSION

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 3-2 MECHANICAL TRANSMISSION 8-SPEED (CONTINUED)			
36	7269	Cluster Gear With Bushings.....	1
37	1504	Bronze Bushing	2
38	3527	Reduction Gear	1
39	9840	Cluster Shaft	1
40	937089	Woodruff Key 3/16 x 3/4	1
41	4204	Gear-Reverse Idler	1
42	3909	Pin-Reverse Idler.....	1
43	1516	Bushing-Reverse Idler	1
44	106447	Dipstick Assembly	1
45	106448	Nipple-Transmission Fill.....	1
46	3912	Transmission Case Gasket	1
47	1239	Special Set Screw	1
48	915111	Nut 1/4-20	1
49	3577	Dust Cover	1
50	9547	Thrust Washer.....	1
51	102974	Gear Assembly	1
52	101625	Gear 11 Tooth	1
53	101626	Gear 44 Tooth	1
54	108758	Gear Shift Knob.....	2
55	3517	Detent Ball 1/4 Diameter	2
56	106030	Detent Spring	1
57	7213	Detent Bolt	1
58	7214	Shift Shaft Hi-Low Range	1
59	116636	Shift Fork Hi-Low Range.....	1
60	3517	Detent Ball 1/4 Diameter.....	1
61	106030	Detent Spring	1
62	110727	Shift Lever Hi-Low Range	1
63	933184	Spirol Pin 3/16 x 3/4	1
64	111197	Diff End Cap 310-8*.....	2
	111196	Diff End Cap 312-8,416-8	2
65	908138	Bolt 3/8-16 x 3 1/4 (Grade 5) 310-8 *	4
	911423	Bolt 3/8-16 x 3 1/2 (Grade 8) 312-8,416-8	4
66	107374	Special Washer-Case Hardened	4
67	108881	Nut 3/8-16 High-Tensile.....	4
68	105063	Differential Ring Gear 43 Tooth 310-8 *	1
	105061	Differential Ring Gear 43 Tooth 312-8,416-8	1
70	101623	Differential Pinion Gear 11 Tooth 310-8 *	4
		(8 used on 312-8,416-8)	
71	3908	Differential Axle Gear 310-8 *	2
	101889	Differential Axle Gear 312-8,416-8.....	2
72	5961	Rear Axle 310-8 (1" dia) *	2
	105875	Rear Axle 312-8,416-8 (1 1/8" dia).....	2
73	7939	Special Snap Ring 310-8 *	2
	105876	Special Snap Ring 312-8,416-8	2
74	110725	Gear Shift Lever	1
75	1001	Hi-Lo Range Shift Knob	1
76	A-1392	Repair Manual	X

*310-8 Serial No's 11752 Thru 11755 Use Part Listed for 312/416 Models.

SECTION 5 - FRONT AXLE AND STEERING



0537



FIGURE 5-1 FRONT AXLE AND STEERING

SECTION 5 - FRONT AXLE AND STEERING

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 5-1 FRONT AXLE AND STEERING			
1	5638	Front Axle	1
2	1030	Grease Fitting Straight.....	2
3	1481	Grease Fitting 45 Degree	1
4	6216	Pin and Plate.....	1
5	908015	Bolt 5/16-18 x 1/2.....	1
6	920082	Lockwasher 5/16.....	1
7	113380	Front Spindle LH 310-8,312-8,321-H.....	1
	113379	Front Spindle LH 310-8,312-8,321-H.....	1
	113381	Front Spindle LH 416-8,416-H	1
	113382	Front Spindle LH 416-8,416-H	1
8	5618	E-Ring	1
10	78-2900	Tie Rod (Incl. Ref. #38).....	2
11	915693	E.S. Nut 3/8-24	4
12	6472	Flanged Bearing	1
13	908035	Bolt 3/8-16 x 1 1/4.....	2
14	915663	E.S. Nut 3/8-16	2
15	78-2880	Lower Steering Shaft.....	1
16	5210	Shim Washer 3/4 x .015	X
17	1278	Shim Washer 3/4 x .050	X
18	932028	Cotter Pin 5/32 x 1 3/4.....	1
19	109733	Steering Support.....	1
20	908037	Bolt 3/8-16 x 1-3/4.....	2
21	915113	Eslok Nut 3/8-16	2
22	1481	Grease Fitting 45 Degree	1
23	6397	Bearing-Lower Steering Shaft	1
24	109189	Bearing-Upper Steering Shaft	1
25	106177	Upper Steering Shaft.....	1
26	1085	Collar	1
27	909848	Eslok Set Screw 1/4-20 x 1/4	1
28	113443	Steering Tube.....	1
29	7896	Bowed Washer.....	1
30	78-3100	Steering Wheel 310-8 (Incl. Ref. #40).....	1
	117337	Steering Wheel 312-8,312-H,416-8,416-H	1
31	933221	Spirol Pin 1/4 x 2.....	1
32	109262	Special Washer.....	X
33	1278	Washer.....	2
34	104822	Retaining Ring	2
36	111646	Grip Ring.....	1
37	915035	Slotted Nut 3/4-16.....	1
38	78-2920	Ball Joint.....	1
39	915002	Nut 3/8-24	1
40*	78-0370	Insert - Steering Wheel.....	1

* Not Illustrated

SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

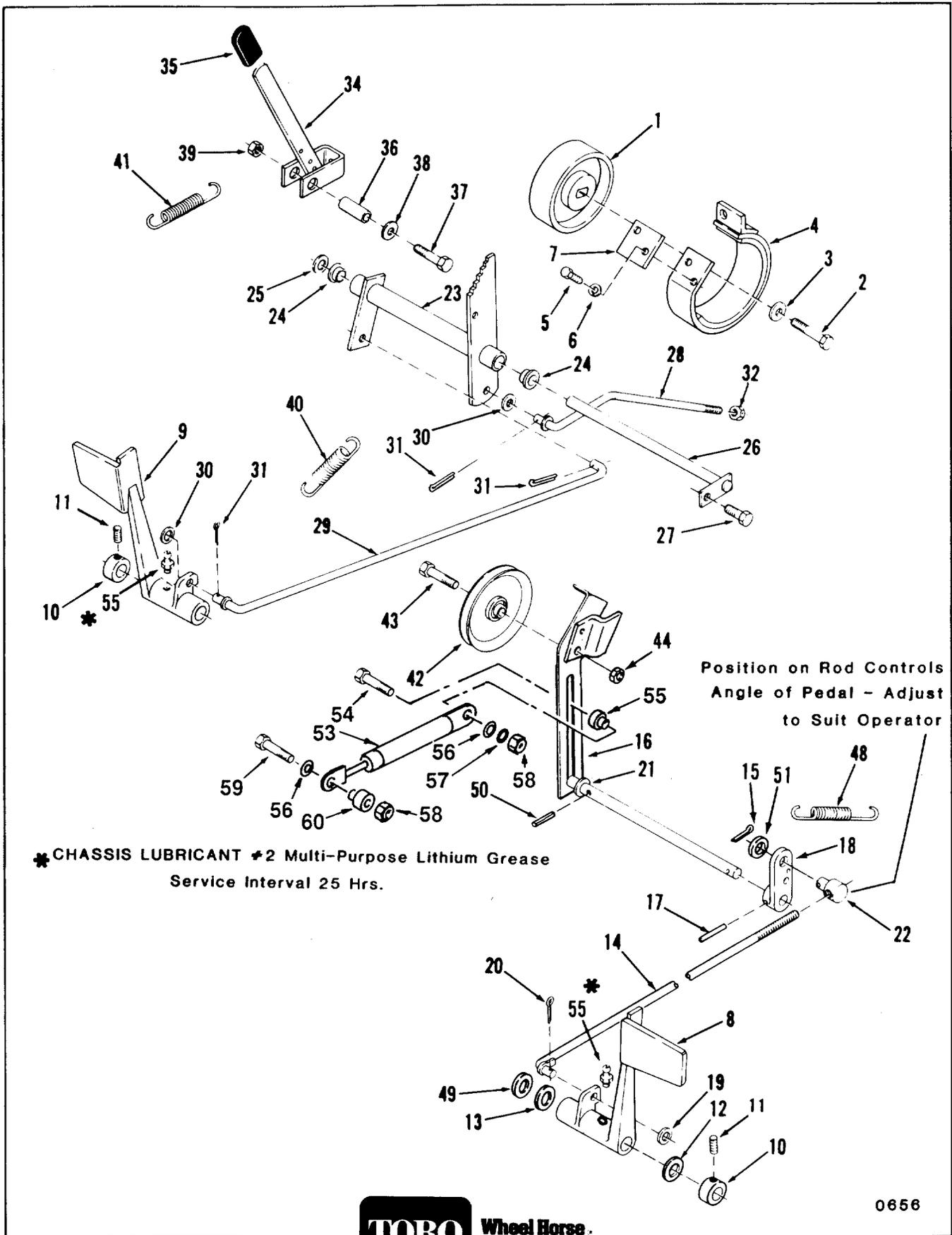


FIGURE 6-1 CLUTCH, BRAKE AND SPEED CONTROL LINKAGE

SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 6-1 CLUTCH, BRAKE AND SPEED CONTROL LINKAGE			
1	106719	Brake Drum	1
2	110234	Nylok Bolt 3/8-16 x 3/4	1
3	2844	Special Washer	1
4	9593	Brake Band	1
5	908002	Bolt 1/4-20 x 5/8	2
6	920081	Lockwasher 1/4	2
7	9598	Back-Up Plate	1
8	114814	Pedal-Clutch	1
9	114813	Pedal-Brake	1
10	1085	Collar	2
11	909848	Eslok Set Screw 1/4-20 x 1/4	2
12	7896	Bowed Washer	1
13	1278	Shim Washer 3/4 x .050	X
14	103347	Clutch Rod	1
15	932008	Cotter Pin 3/32 x 3/4	1
16	78-2970	Clutch Idler Arm	1
17	933190	Spirol Pin 3/16 x 1-1/4	1
18	105896	Clutch Rod Arm	1
19	920248	Nylon Washer 3/8	3
20	932016	Cotter Pin 1/8 x 3/4	2
21	3765	Shim Washer 1/2 x .030	X
22	101161	Trunnion-Clutch Rod	1
23	103543	Bell Crank-Brake Linkage	1
24	7879	Bushing	2
25	920011	Washer 1/2 SAE	1
26	106417	Rod-Bell Crank Pivot	1
27	926694	ST Bolt 5/16-18 x 5/8	1
28	105900	Brake Rod-Rear	1
29	105886	Brake Rod-Front	1
30	920248	Nylon Washer 3/8	2
31	932016	Cotter Pin	3
32	915663	E.S. Nut 3/8-16	1
34	106451	Parking Brake Lever	1
35	6820	Grip	1
36	102025	Spacer	1
37	908037	Bolt 3/8-16 x 1-3/4	1
38	920009	Washer 3/8 SAE	1
39	102809	Special Nut	1
40	107677	Spring-Brake Return	1
41	103628	Spring-Parking Brake Return	1
42	7451	Idler Pulley	1
43	106193	Special Bolt 3/8-16 x 1-1/2	1
44	915663	E.S. Nut 3/8-16	1
48	108035	Spring-Clutch Return	1
49	920225	Special Washer	1
50	933267	Spirol Pin 5/32 x 1-1/4	1
51	920009	Washer 3/8 SAE	1
52	114131	Damper Bracket	1
53	78-3240	Gas Spring	1
54	908005	Bolt 1/4-20 x 1	1
55	78-3260	Spacer	1
56	920007	Washer	2
57	920081	Lockwasher	1
58	915661	Nut 1/4-20	2
59	908007	Bolt 1/4-20 x 1-1/2	1
60	78-3250	Spacer	1

SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

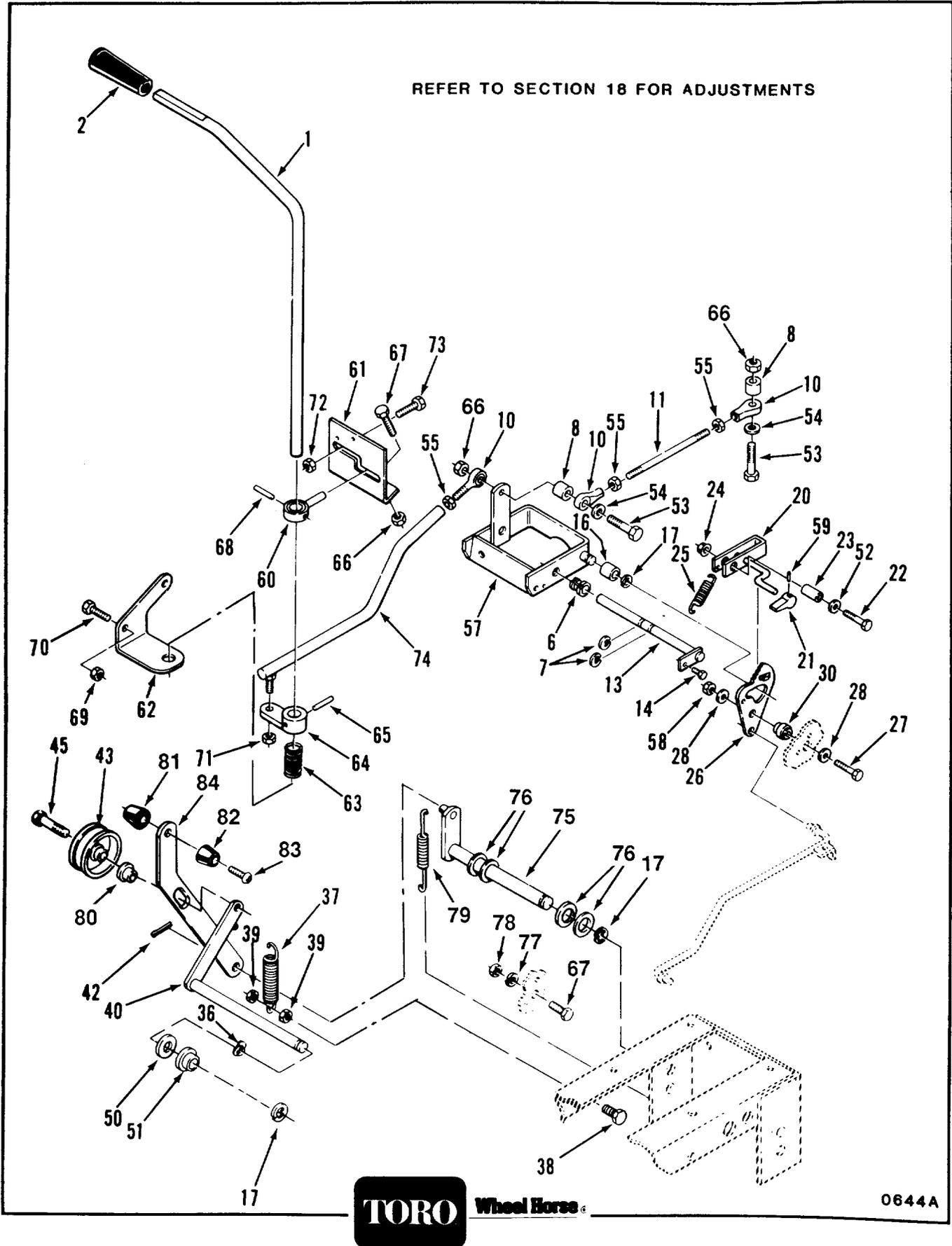


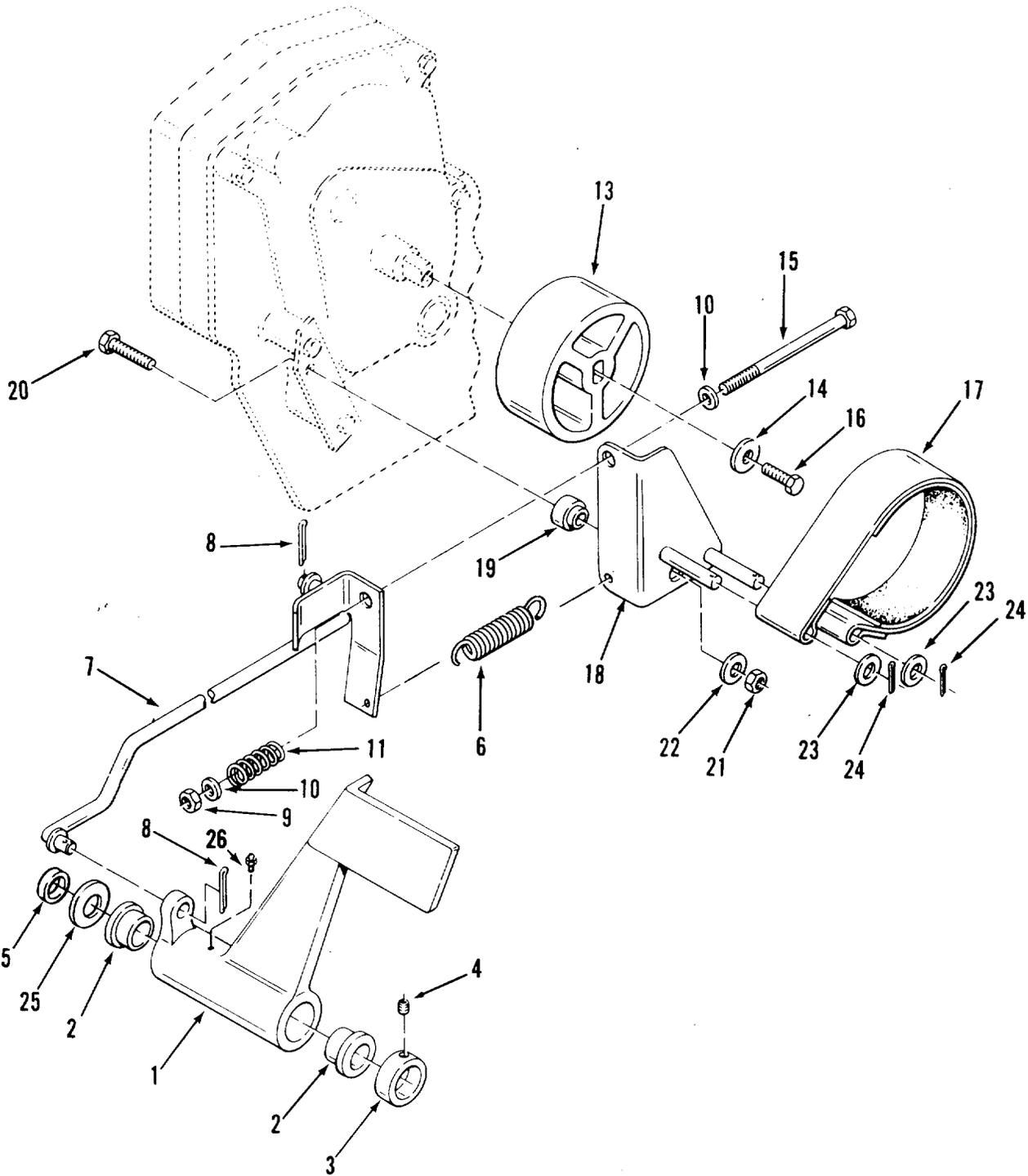
Figure 6-2 Clutch, Brake And Speed Control Linkage

SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 6-2			
CLUTCH, BRAKE AND SPEED CONTROL LINKAGE - 312-H & 416-H			
1	78-5660	Motion Control Lever	1
2	116635	Knob-Motion Control Linkage	1
6	5983	Bushing	2
7	5701	E-Ring	2
8	100304	Spacer	2
10	116407	Rod End	2
11	108904	Rod Control 9" long	1
13	108496	Pivot Rod-Motion Control Lever	1
14	926694	S.T. Bolt 5/16-18 x 5/8	1
16	100656	Cam Bearing	1
17	5701	E-Ring 1/2 (5 used on 312-H)	4
20	78-8500	Parking Brake Lever	1
21	118860	Knob-Parking Brake Lever	1
22	908037	Bolt 3/8-16 x 1-3/4	1
23	102025	Spacer	1
24	102809	Special Flanged Nut	1
25	1230	Spring	1
26	108716	Cam Plate	1
27	908036	Bolt 3/8-16 x 1-1/2	1
28	920039	Washer 3/8 SAE	2
30	108717	Spacer	1
36	108473	Wave Washer	2
37	107938	Spring	1
38	908005	Bolt 1/4-20 x 1	1
39	915111	Eslot Nut 1/4 x 20	4
40	106368	Pivot Rod (312-H)	1
*	78-6020	Pivot Rod (416-H)	1
43	112426	Idler Pulley	1
45	106193	Special Bolt 3/8-16 x 1-1/2	1
50	920011	Washer 1/2 SAE	1
51	7879	Bushing	1
52	920009	Washer 3/8 SAE	1
53	911458	Bolt 1/4-20 x 1-1/2	2
54	920007	Washer 1/4 SAE	2
55	915083	Jam Nut 1/4-28	3
57	113454	Cam Control	1
58	915663	E.S. Nut 3/8-16	2
59	933135	Spirol Pin 3/32 x 5/8	1
60	118660	Control Guide	1
61	78-5631	Control Bracket	1
62	78-1540	Control Bracket-Lower	1
63	101853	Spring	1
64	116321	Control Arm	1
65	933171	Spirol Pin 5/32 x 1	1
66	915661	E.S. Nut 1/4-20	2
67	908003	Bolt 1/4-20 x 3/4 (3 used on 312-H)	2
68	933198	Spirol Pin 7/32 x 7/8	1
69	915662	E.S. Nut 5/16-18	2
70	908017	Bolt 5/16-18 x 3/4	2
71	915692	Nut 5/16-24	1
72	915662	Stop Nut 5/16-18	1
73	908016	Stop Bolt 5/16-18	1
74	116324	Rod Assembly	1
75	106369	Shaft (312-H)	1
76	920011	Washer 1/2 SAE (312-H)	4
77	920122	Lockwasher 1/4 Ext. Tooth (312-H)	1
78	915234	Nut 1/4-20 (312-H)	1
79	110769	Spring (312-H)	1
80	106450	Spacer (312-H)	1
81	8722	Knob (312-H)	1
82	8693	Knob (312-H)	1
83	911747	Screw #10-24 x 1-1/4 (312-H)	1
84	110780	Handle (312-H)	1

SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

REFER TO SECTION 18 FOR BRAKE ADJUSTMENT



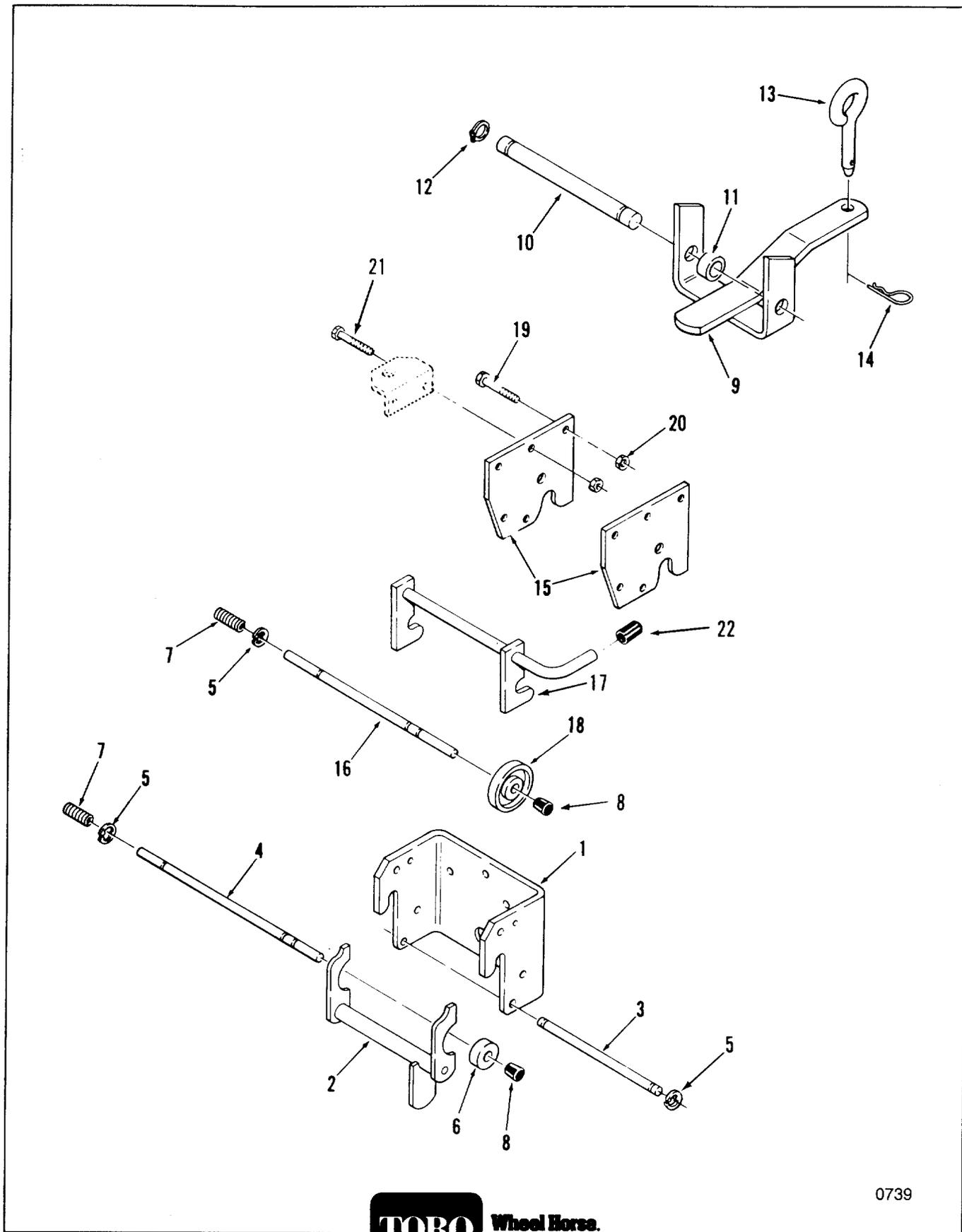
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SECTION 6 - CLUTCH, BRAKE AND MOTION CONTROL LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 6-3 CLUTCH, BRAKE AND SPEED CONTROL LINKAGE - 312-H & 416-H			
1	79-1350	Brake/Return To Neutral Pedal	1
2	6254	Bushing	2
3	1085	Collar	1
4	909848	Eslok Set Screw 1/4-20 x 1/4	1
5	107691	Spacer	1
6	103125	Spring-Brake Return	1
7	109372	Brake Rod-Front	1
8	932017	Cotter Pin 1/8 x 1	2
9	915663	E.S. Nut 3/8-16	1
10	920009	Washer 3/8 SAE	2
11	108680	Spring	1
13	106719	Brake Drum	1
14	2844	Special Washer	1
15	908144	Bolt 3/8-16 x 4-1/2	1
16	908034	Eslok Bolt 3/8-16 x 1	1
17	109371	Brake Band	1
18	109367	Brake Pivot Arm	1
19	109356	Bushing	1
20	908037	Bolt 3/8-16 x 1-3/4	1
21	915663	E.S. Nut 3/8-16	1
22	920039	Washer 3/8 U.S.	1
23	920009	Washer 3/8 SAE	2
24	932008	Cotter Pin 3/32 x 3/4	2
25	1278	Shim Washer	X
26	1030	Grease Fitting	1

SECTION 7 - HITCHES AND LIFT LINKAGE



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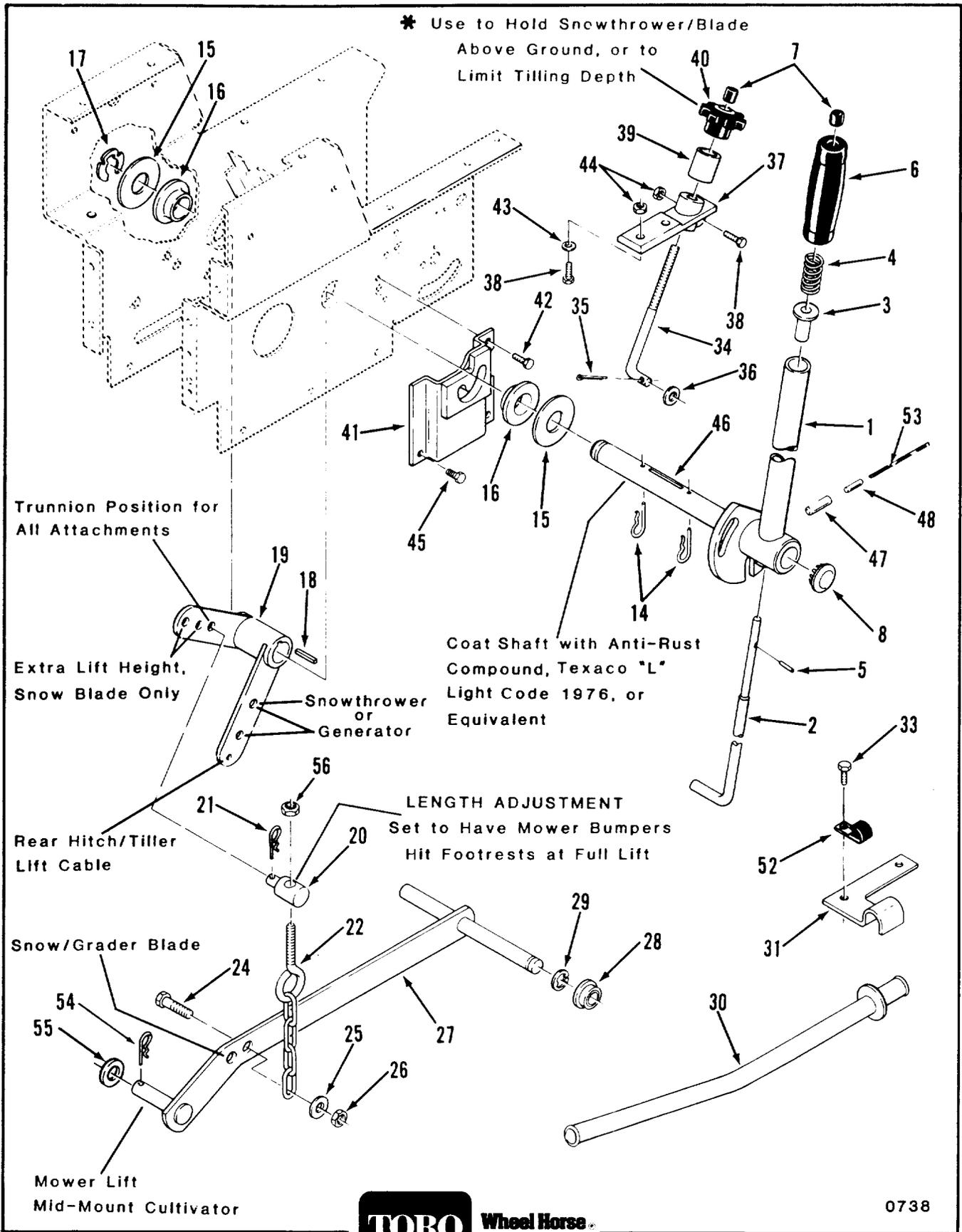


FIGURE 7-1 HITCHES

SECTION 7 - HITCHES AND LIFT LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 7-1 HITCHES	
1	101711	Front Hitch Housing	1
2	105859	Latch-Front Hitch	1
3	101750	Rod	1
4	101751	Rod-Front Hitch Lock	1
5	105797	E-Ring	8
6	101707	Lock	1
7	8616	Spring	2
8	105316	Cap-Lock Rod	2
9	1644	Drawbar Hitch	1
10	105269	Shaft-Drawbar Hitch	1
11	979120	Spacer	2
12	5618	E-Ring	2
13	106634	Hitch Pin	1
14	933505	Hairpin Cotter	1
15	102644	Mid Hitch Plate	2
16	102672	Rod-Mid Hitch Lock	1
17	117930	Latch-Mid Hitch	1
18	101017	Lock	1
19	908034	Bolt 3/8-16 x 1	3
20	915663	E.S. Nut 3/8-16	5
21	908035	Bolt 3/8-16 x 1-1/4	2
22	9038	Grip	1

SECTION 7 - HITCHES AND LIFT LINKAGE



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FIGURE 7-2 LIFT LINKAGE

SECTION 7 - HITCHES AND LIFT LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 7-2 MANUAL LIFT LINKAGE			
1	108563	Lift Lever (Includes Items 46, 47, 48)	1
2	106257	Latch Rod	1
3	8130	Spring Retainer	1
4	3624	Spring	1
5	933148	Spirol Pin 1/8 x 1/2	1
6	6542	Grip-Lift Lever	1
7	105316	Rod Cap (2 used on 416)	1
8	4944	Plug Button	1
14	933507	Hairpin Cotter	2
15	920017	Washer 1 in. SAE	3
16	106269	Bushing	2
17	106414	Retainer	1
18	1121	Key 1/4 Sq x 1-3/16	1
19	78-1550	Bellcrank	1
20	6739	Trunnion	1
21	933504	Hairpin Cotter	1
22	106522	Lift Chain	1
24	908020	Bolt 5/16-18 x 1 1/4	1
25	920008	Washer 5/16	1
26	915662	E.S. Nut 5/16-18	1
27	113445	Lift Bar	1
28	6229	Bearing	1
29	5701	E-Ring	1
30	105845	Tube-Rear Lift Cable	1
31	108903	Clamp-Tube	1
33	908034	Eslok Bolt 3/8-16 x 1	2
34	110653	Rod-Height Control 310-8,312-8,416-8	1
35	932016	Cotter Pin 1/8 x 3/4	1
36	920040	Washer 7/16 US	1
37	106345	Height Control Casting 310-8,312-8,416-8	1
38	908019	Bolt 5/16-18 x 1	3
39	106258	Sleeve 310-8,312-8,416-8	1
40	5280	Knob-Height Control 310-8,312-8,416-8	1
41	106411	Latch Bracket	1
42	926694	ST Bolt 5/16-18 x 5/8	1
43	920008	Washer 5/16 SAE	2
44	915662	E.S. Nut 5/16-18	3
45	926696	ST Bolt 5/16-18 x 7/8	2
46	108565	Shaft	1
47	933268	Spirol Pin	1
48	933230	Roll Pin	1
52	8830	Clamp	1
53	111154	Lock Wire	1
54	933505	Hairpin Cotter	1
55	920011	Washer 1/2 SAE	1
56	915663	E.S. Nut 3/8-16	1

SECTION 7 - HITCHES AND LIFT LINKAGE

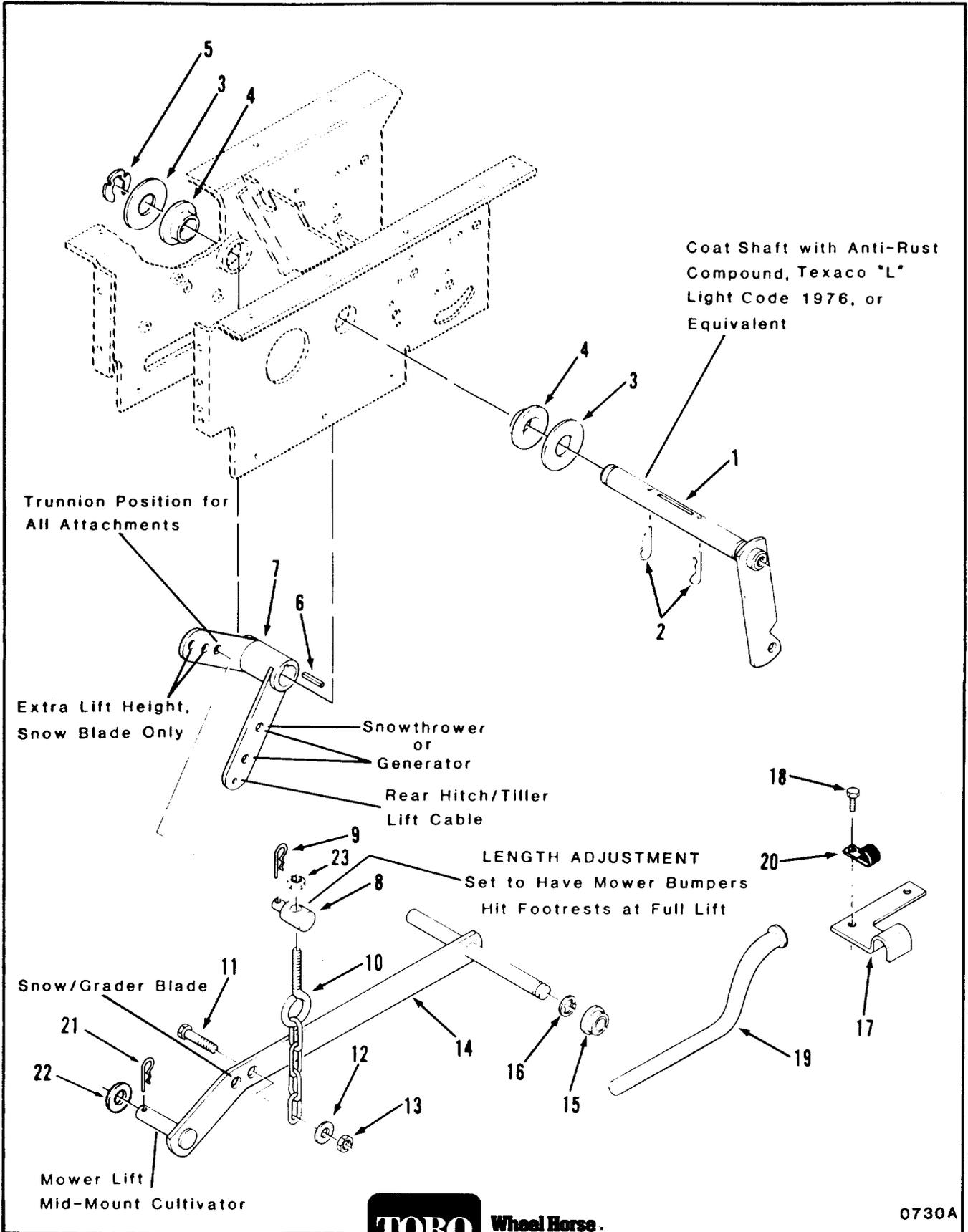
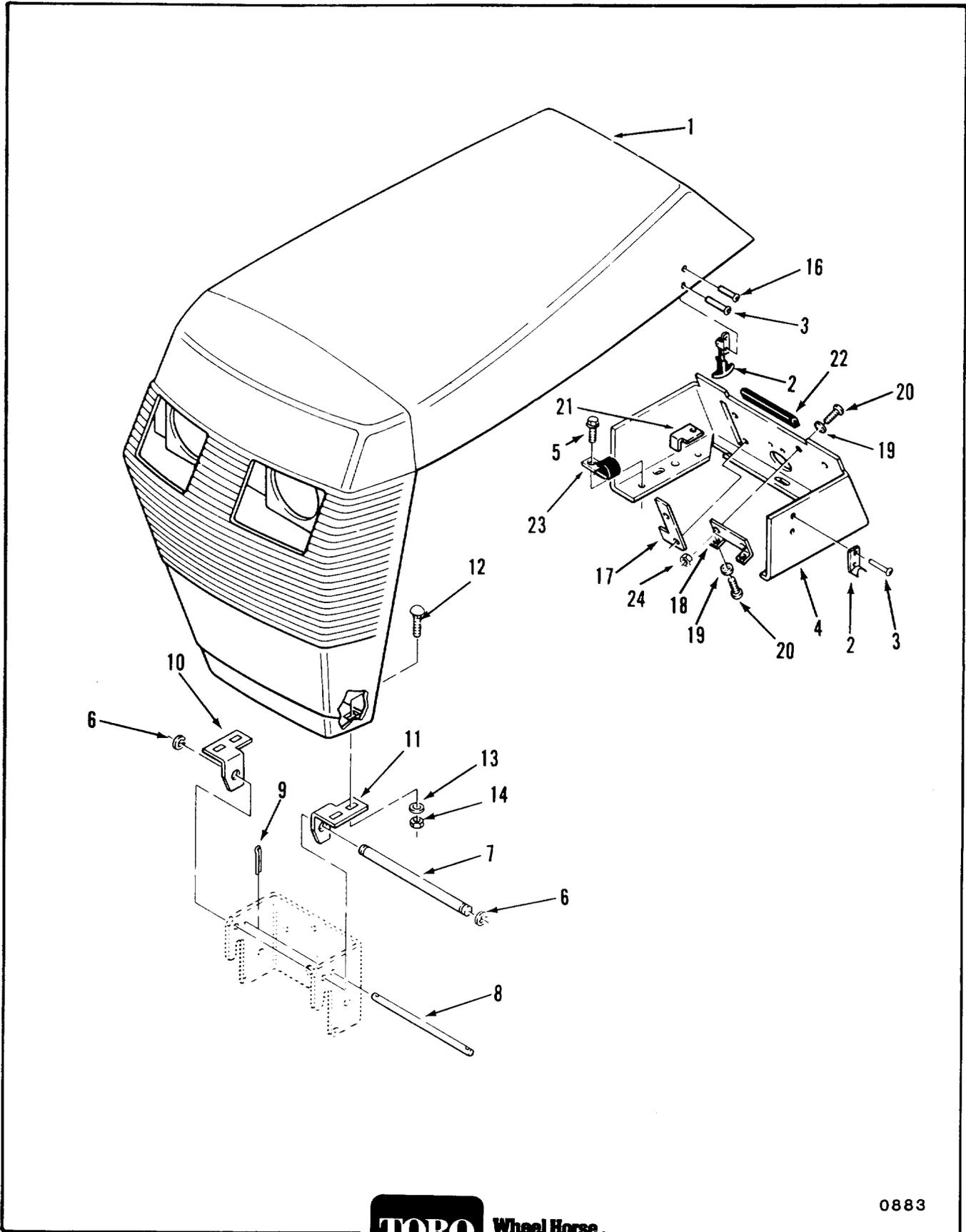


Figure 7-3 Hydrostatic Lift Linkage

SECTION 7 - HITCHES AND LIFT LINKAGE

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 7-3 HYDROSTATIC LIFT LINKAGE 312-H & 416-H	
1	121100	Lift Lever	1
2	933507	Hairpin Cotter.....	2
3	920017	Washer 1" SAE	3
4	106269	Bushing	2
5	106414	Retainer	2
6	1121	Key 1/4 sq. x 1-3/16	1
7	78-1550	Bellcrank	1
8	6739	Trunnion	1
9	933505	Hairpin Cotter.....	1
10	106522	Lift Chain	1
11	908019	Bolt 5/16-18 x 1	1
12	920008	Washer 5/16	1
13	915662	E.S. Nut 5/16-18	1
14	113445	Lift Bar	1
15	6229	Bearing	1
16	5701	E-Ring	1
17	108903	Clamp Tube	1
18	908034	Eslok Bolt 3/8-19 x 1	2
19	108315	Tube - Rear Lift Cable	1
20	8830	Clamp	1
21	933505	Hairpin Cotter.....	1
22	920011	Washer 1/2 SAE	1
23	915663	E.S. Nut 3/8-16	1

SECTION 8 - SHEET METAL COVERS



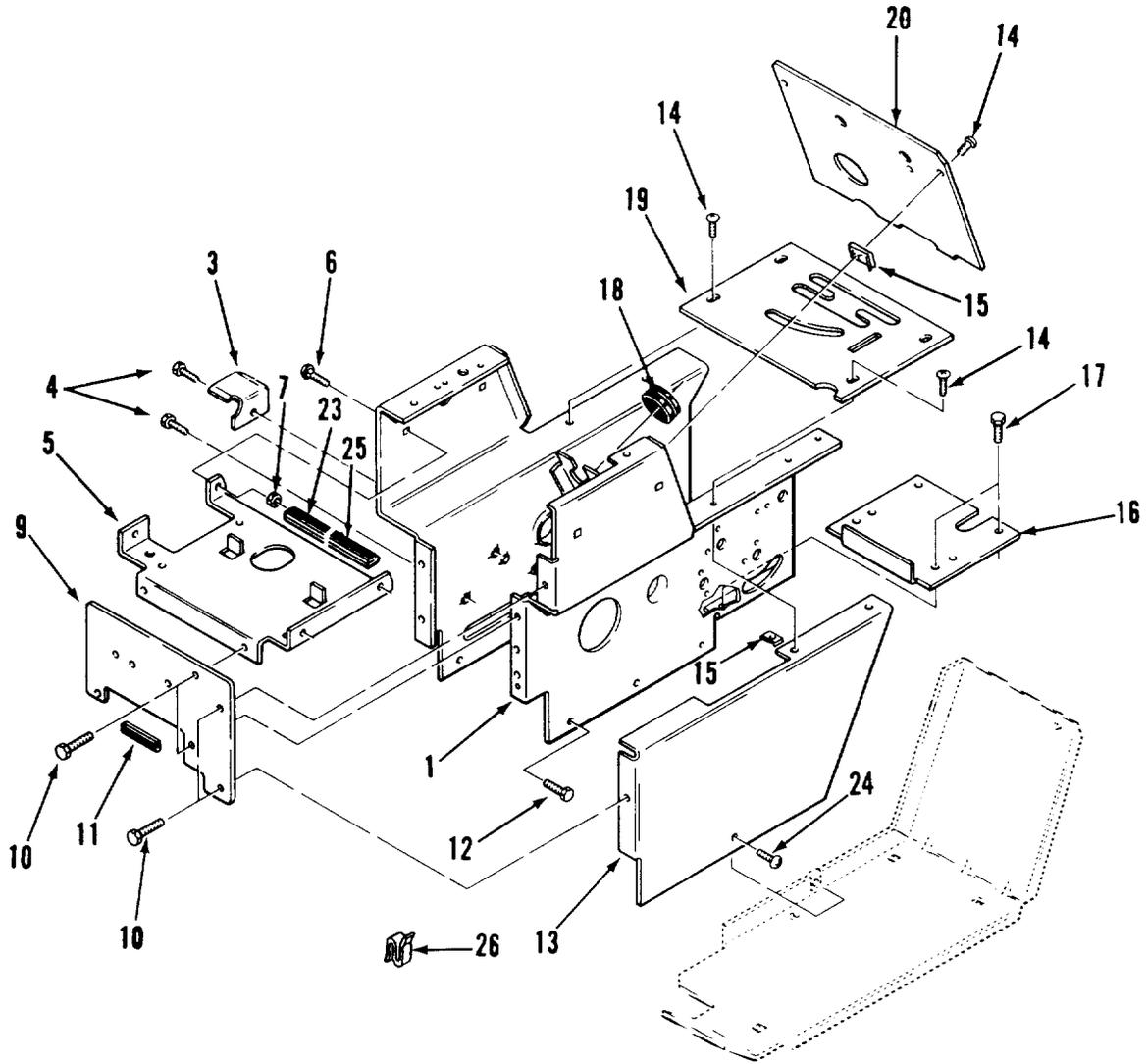
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SECTION 8 - SHEET METAL AND COVERS

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 8-1 SHEET METAL AND COVERS	
1	112358	Hood.....	1
2	117341	Hood Latch.....	2
3	117432	Pop Rivet 1/8 x .294.....	4
4	111270	Console 310-8.....	1
*	111271	Console 312-8,416-8.....	1
*	78-5610	Console 312-H,415-H.....	1
5	926694	Washer Hd. ST Bolt 5/16-18 x 5/8.....	3
6	105797	E-Ring.....	2
7	116745	Pivot Rod.....	1
8	101850	Hood Stop Rod.....	1
9	932000	Cotter Pin 1/16 x 1/2.....	2
10	116746	Bracket RH.....	1
11	116747	Bracket LH.....	1
12	900015	Carriage Bolt 1/4-20 x 3/4.....	4
13	920007	Washer 1/4 SAE.....	4
14	915111	Eslok Nut 1/4-20.....	4
16	117431	Pop Rivet 1/8 x .232.....	2
17	111182	Throttle Stop 310-8,312-8,416-8.....	1
*	120590	Throttle Stop 312-H,416-H.....	1
18	112506	Bracket 312,416.....	1
19	920150	Internal Tooth Lockwasher #6.....	4
20	910762	Screw #6-32 x 3/8 Black.....	4
21	112415	PTO Stop.....	1
22	111757	Console Edging.....	1
23	111392	J-Clip.....	1
24	915960	Nut #6-32.....	4
*	5983	Bushing - Hood Pivot & Bracket.....	2

* Not Illustrated

SECTION 8 - SHEET METAL AND COVERS



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SECTION 8 - SHEET METAL AND COVERS

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 8-2 SHEET METAL AND COVERS	
1	78-2940	Hoodstand.....	1
3	106261	Belt Bracket.....	1
4	926694	ST Bolt 5/16-18 x 5/8.....	1
5	78-3010	Battery Support Bracket 310-8,312-8,416-8.....	1
*	78-3000	Battery Support Bracket 312-H,416-H.....	1
6	117371	Carriage Bolt 5/16-18 x 1/2.....	4
7	915112	Esllok Nut 5/16-18.....	4
9	78-3020	Front Plate.....	1
10	926694	ST Bolt 5/16-18 x 5/8.....	1
11	106772	Edge Trim 4".....	1
12	926694	ST Bolt 5/16-18 x 5/8.....	4
*	926696	ST Bolt 5/16-18 x 7/8.....	2
13	113935	Side Cover LH 310-8,312-8,416-8.....	1
*	116279	Side Cover LH 312-H,416-H.....	1
14	9108372	Screw 1/4-20 x 5/8 Black.....	6
15	107069	Speed Nut.....	6
16	106250	Dust Cover.....	1
17	926694	ST Bolt 5/16-18 x 5/8.....	4
18	104248	Grommet.....	1
19	117253	Shift Cover Plate 416-H.....	1
*	111386	Shift Cover Plate 310-8,312-8,416-8.....	1
*	78-8110	Shift Cover Plate 312-H.....	1
20	78-5620	Hood Stand Plate 312-H.....	1
*	116862	Hood Stand Plate 416-H.....	1
*	111034	Hoodstand Plate 310-8,312-8,416-8.....	1
23	110142	Edge Trim.....	1
24	910837	Screw 1/4-20 x 5/8.....	1
25	106454	Edge Trim.....	1
26	3023	Clip.....	1

* Not Illustrated

SECTION 8 - SHEET METAL AND COVERS

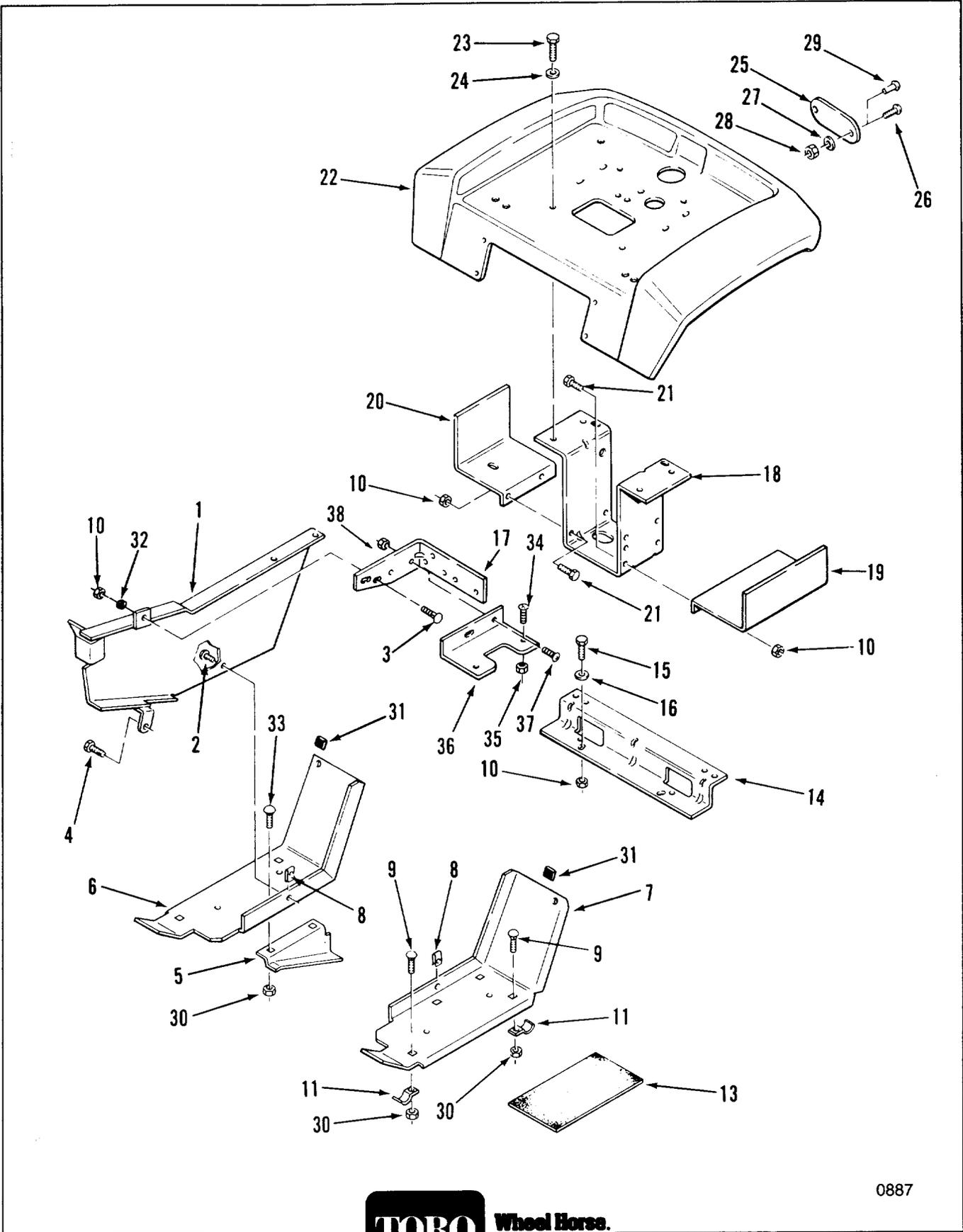


FIGURE 8-3 SHEET METAL AND COVERS

SECTION 8 - SHEET METAL AND COVERS

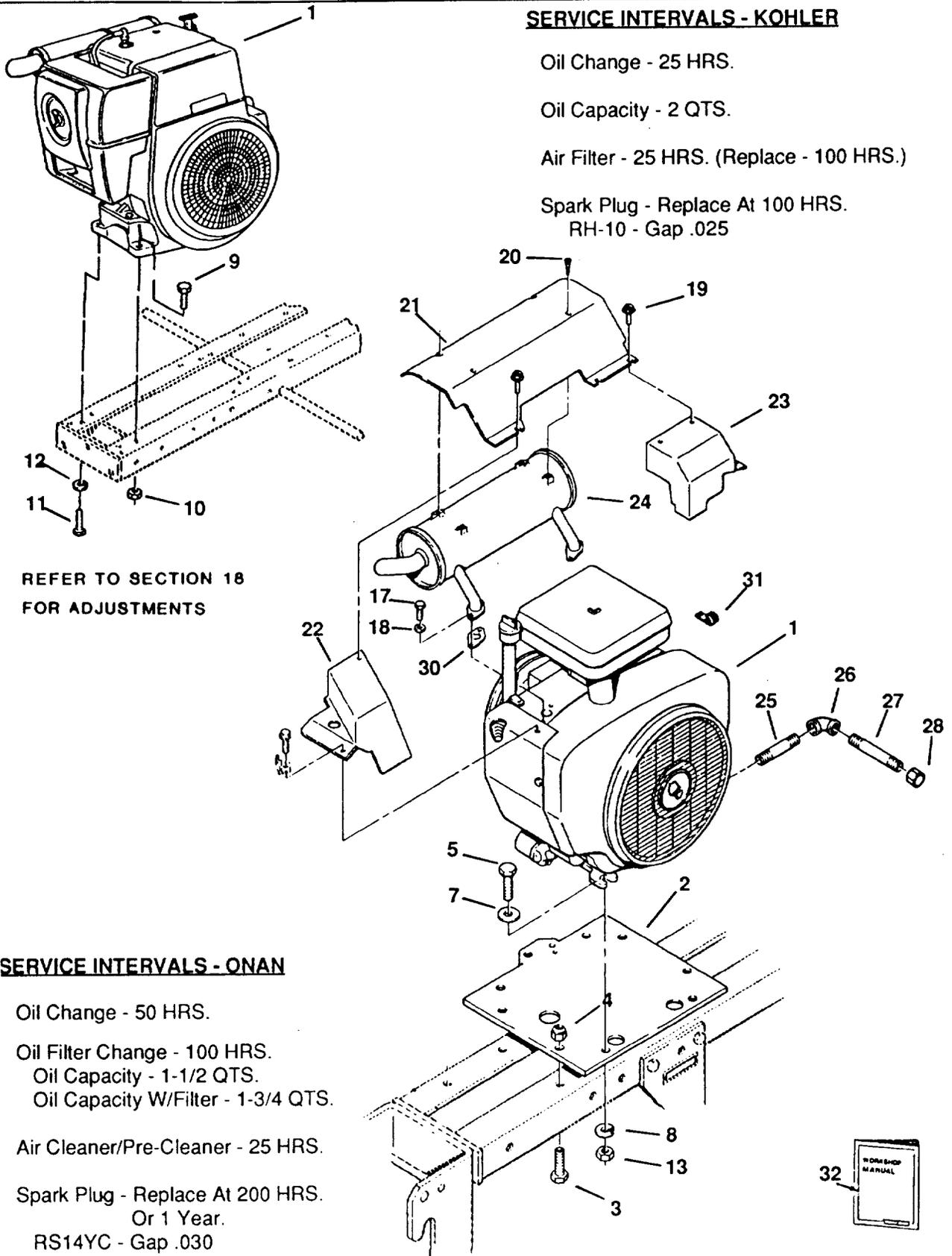
ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 8-3 SHEET METAL AND COVERS			
1	107975	Belt Guard 310-8,312-8,312-H.....	1
	114877	Belt Guard 416-8,416-H.....	1
2	910837	Screw 1/4-20 x 5/8	2
3	116000	Carriage Bolt 5/16-18 x 3/4	1
4	926694	ST Bolt 5/16-18 x 5/8	1
5	106352	Lower Belt Guard	1
6	106222	Foot Rest RH	1
7	106223	Foot Rest LH	1
8	107069	Clip	3
9	116000	Carriage Bolt 5/16-18 x 3/4	6
10	915662	E.S. Nut 5/16-18	7
11	7456	Clamp	4
13	110636	Footrest Pad 312-8,416-8,312-H,416-H.....	2
*	106264	Footrest Pad 310-8	2
14	107951	Fender Bracket-Front	1
15	908017	Bolt 5/16-18 x 3/4.....	2
16	920008	Washer 5/16 SAE	2
17	109554	Support Bracket-Belt Guard 310,312,416	1
18	108897	Fender Support Bracket	1
19	108464	Fuel Tank Support LH	1
20	106236	Fuel Tank Support RH	1
21	908017	Bolt 5/16-18 x 3/4.....	4
22	110960	Fender	1
23	926694	ST Bolt 5/16-18 x 5/8	4
24	920008	Washer 5/16 SAE	4
25	108547	Reflector 310	2
26	910808	Screw #10-32 x 5/8 (Optional) 310	4
27	920079	Lockwasher #10 (Optional) 310.....	4
28	915551	Nut #10-32 (Optional) 310	4
29	109193	Poprivet 3/16 x .57 Aluminum (Std. Production) 310.....	4
30	915662	Esllok Nut 5/16-18	6
31	518211	Bumper	2
32	108457	Push Nut	1
33	118620	Carriage Bolt 5/16-18 x 3/4	2
34	910794	Machine Screw #10-24 x 3/4 310,312	2
35	915740	E.S. Nut #10-24 310,312.....	4
36	118280	Fuse Holder 416-8,416-H	1
	117331	Fuse Holder 310-8,312-8,312-H	1
37	908003	Bolt 1/2-20 x 3/4.....	2
38	915661	E.S. Nut 1/4-20	1

* Not Illustrated

SECTION 9 - ENGINES AND EXHAUST

SERVICE INTERVALS - KOHLER

- Oil Change - 25 HRS.
- Oil Capacity - 2 QTS.
- Air Filter - 25 HRS. (Replace - 100 HRS.)
- Spark Plug - Replace At 100 HRS.
RH-10 - Gap .025

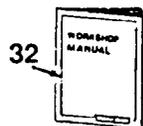


REFER TO SECTION 18
FOR ADJUSTMENTS

SERVICE INTERVALS - ONAN

- Oil Change - 50 HRS.
- Oil Filter Change - 100 HRS.
- Oil Capacity - 1-1/2 QTS.
- Oil Capacity W/Filter - 1-3/4 QTS.
- Air Cleaner/Pre-Cleaner - 25 HRS.
- Spark Plug - Replace At 200 HRS.
Or 1 Year.
RS14YC - Gap .030

REFER TO ENGINE SERVICE MANUAL FOR ADDITIONAL SERVICE ADJUSTMENTS



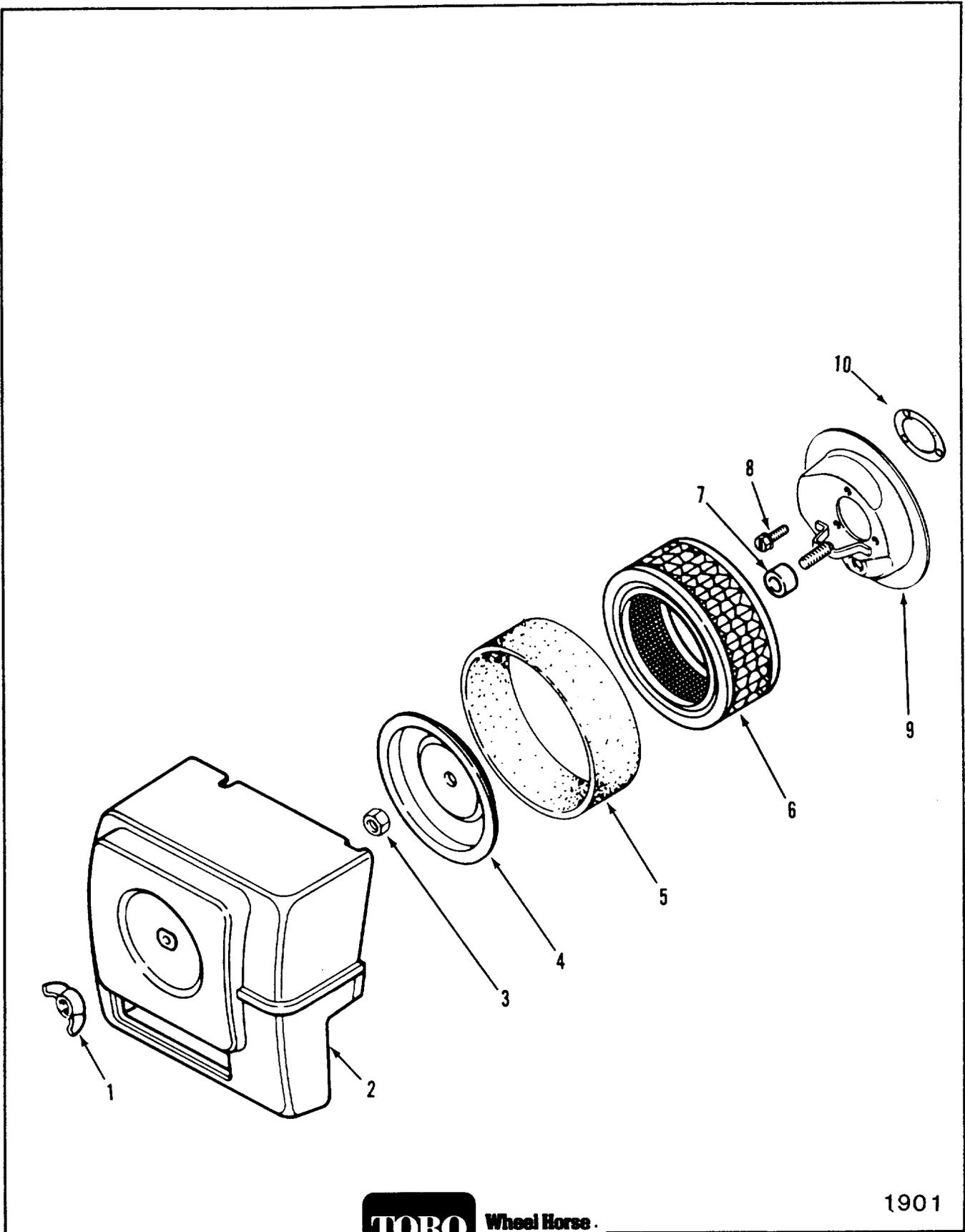
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SECTION 9 - ENGINES AND EXHAUST

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 9-1 ENGINES	
1	117254	Engine 10HP Kohler M-10-S Spec 461521 (s/n 1919902923 & up) - 310	X
	117255	Engine 12HP Kohler M-12-S Spec 471527 - 312	X
	117590	Engine 16HP Toro Power Plus P216G-I/10976C - 416	X
2	116609	Engine Plate 416	1
3	908035	Bolt 3/8-16 x 1 1/4	4
4	915553	E.S. Nut 3/8-16	4
5	908035	Bolt 3/8-16 x 1 1/4	4
7	920009	Washer 3/8 SAE	4
8	920083	Lockwasher 3/8	4
9	908036	Bolt 3/8-16 x 1 1/2 310,312	2
10	915663	Nut 3/8-16 E.S.	2
11	908034	Bolt 3/8-16 x 1 310,312	2
12	920083	Lockwasher 3/8	1
13	915113	Eslok Nut 3/8-16	4
17	908017	Bolt 5/16-18 x 3/4	4
18	920082	Lockwasher 5/16	4
19	908001	Bolt 1/4-20 x 1/2	3
20	910331	Screw #10-24 x 3/8	4
21	114217	Air Deflector	1
22	114215	LH Exhaust Cover	1
23	114216	RH Exhaust Cover	1
24	116470	Muffler 416	1
25	114636	Pipe 3/8 x 3	1
26	114764	Elbow 90 Degree	1
27	114763	Pipe 3/8 x 4	1
28	5224	Cap	1
30	114214	Exhaust Gasket	2
31	111357	Clip	1
32	TP2203A	Magnum Kohler Service & Repair Manual	X
	810697R1	Toro Power Plus Service & Repair Manual	X

SECTION 9 - KOHLER ENGINE AIR INTAKE



TORO Wheel Horse

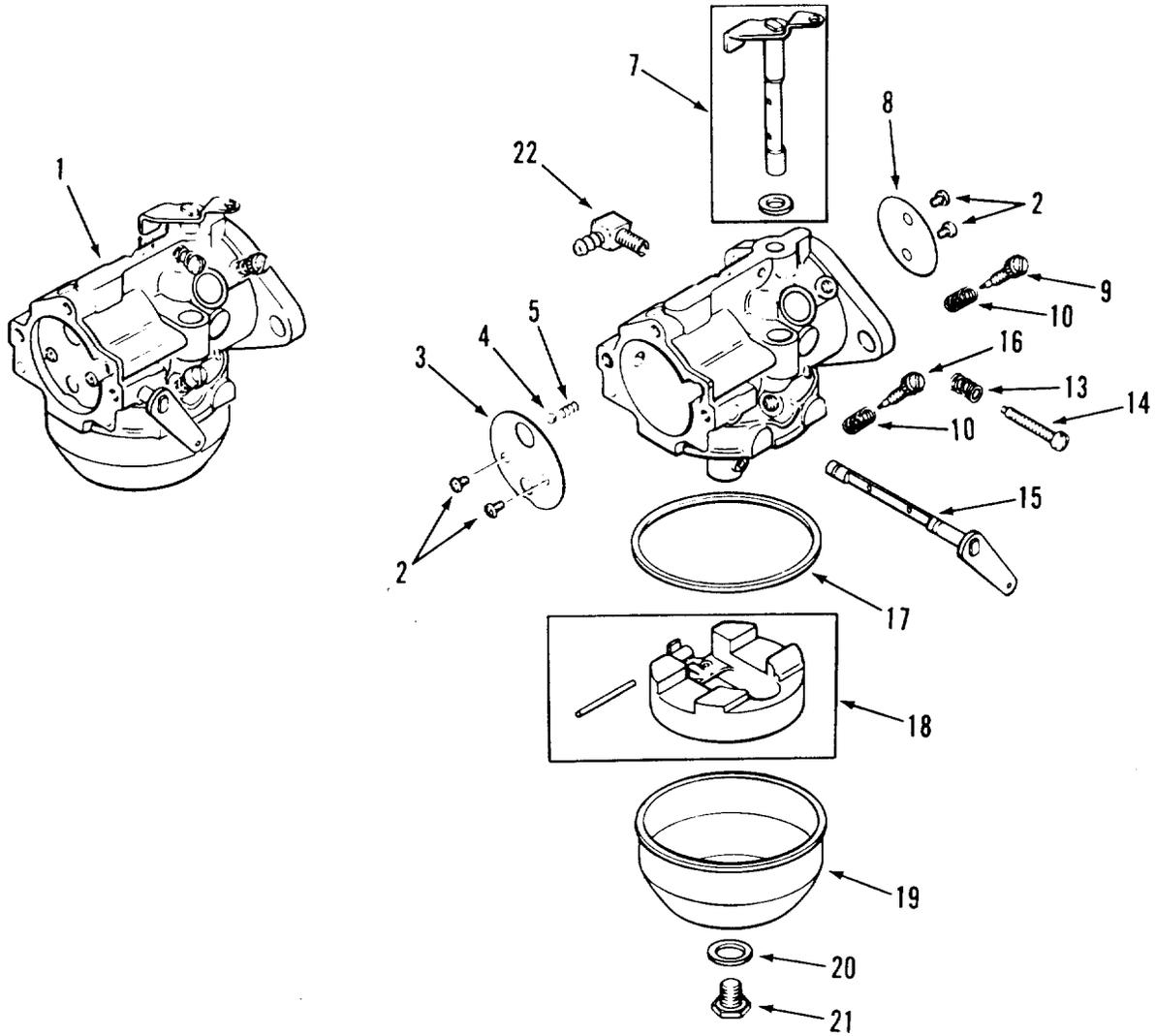
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SECTION 9 - KOHLER ENGINE AIR INTAKE

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-2 KOHLER AIR INTAKE				
1	KH10576	276-7	Wing Nut 1/4-20.....	1
2	KH10299	47 096 10	Cover.....	1
3	KH10189	41 100 04	Nut.....	1
4	KH10412	52 082 04	Air Cleaner Element Cover.....	1
5	KH10235	45 083 01	Precleaner Element.....	1
6	KH10236	45 083 02	Element.....	1
7	KH10034	231032	Seal.....	1
8	KH10609	X-67-65	Screw 10/32 x 11/32.....	3
9	KH10297	47 094 20	Air Cleaner Base.....	1
10	KH10697	45 041 07	Gasket.....	1
*		41 113 02	Decal - Air Cleaner.....	1

* Not Illustrated

SECTION 9 - KOHLER ENGINE CARBURETORS



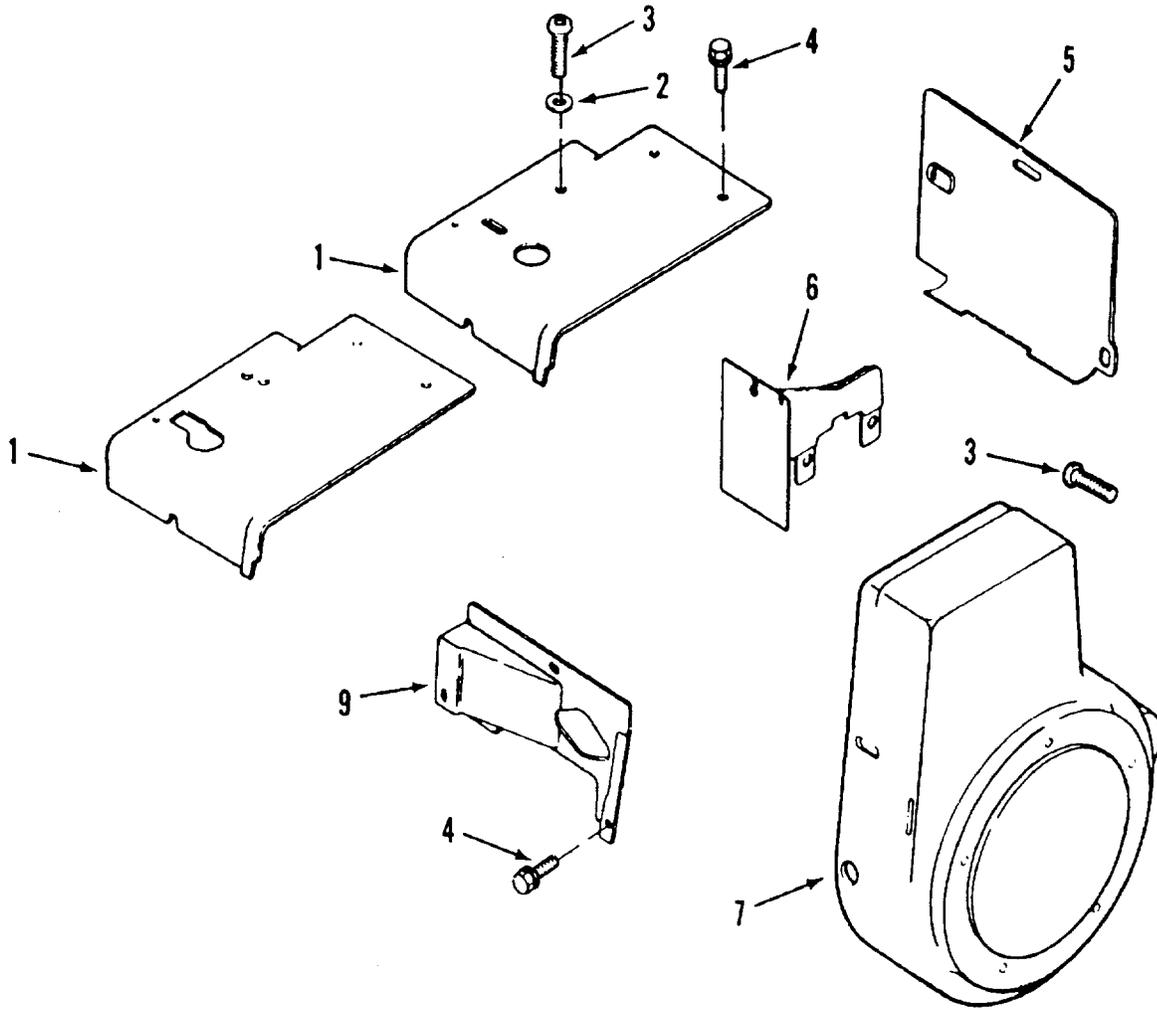
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FIGURE 9-3 CARBURETORS

SECTION 9 - KOHLER ENGINE CARBURETORS

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-3 KOHLER CARBURETORS				
1	KH10672	47 053 86	Carburetor Assembly (Includes 5 thru 8) 310,312.....	1
2	KH10110	25 086 27	Screw	4
3	KH10708	47 146 08	Choke Plate	1
4	KH10128	25 194 01	Ball	1
5	KH10113	25 089 03	Spring.....	1
7	KH10707	47 144 21	Shaft w/Lever and Seal	1
8	KH10121	25 146 02	Throttle Plate	1
9	KH10132	25 368 01	Idle Fuel Adj. Needle	1
10	KH10112	25 089 02	Idle Fuel Spring	1
13	KH10114	25 089 04	Adj. Spring	1
14	KH10109	25 086 26	Idle Speed Adj. Screw	1
15	KH10702	47 090 38	Choke Shaft.....	1
16		25 368 03	Needle Main.....	1
17	KH10094	25 041 04	Gasket.....	1
18	KH10663	25 757 09	Float Kit.....	1
19	KH10117	25 104 01	Fuel Bowl	1
20	KH10093	25 041 03	Gasket.....	1
21	KH10116	25 100 05	Screw	1
22		25 155 02	Connector 90°.....	1
	Not Illustrated KH10696	25 757 11	Carburetor Repair Kit (Includes) Flange Gasket KH10009, 210223 Carburetor Gasket KH10146, 271030 Gasket KH10733, 275341 Bowl Screen Gasket KH10093, 25 041 03 Bowl Gasket KH10094, 25 041 04 Air Cleaner Gasket KH10677, 41 041 11 Gasket KH10697, 45 041 07 Carburetor Gasket KH10274, 47 049 01	X
	KH10358	25 757 05	Choke & Throttle Repair Kit	X
	KH10710	47 755 36	High Altitude Jet Kit (Includes Bushing KH 10682, 47 158 07; Main Jet KH10709, 47 337 02)	X
	KH10674	47 853 09	Carburetor W/Linkage Kit (Includes Bushing KH10682, 47 158 07; Main Jet KH10709, 47 337 02)	X
	KH10693	47 853 20	Adjustable Jet W/Linkage Kit (Includes) - Carburetor Linkage KH10701, 47 079 10 Bushings Linkage Natural KH10682, 47 158 07 Bushings Linkage Black KH10686, 25 158 09 Air Cleaner Gasket KH10697, 45 041 07 Carburetor Assembly KH10693, 47 053 86 Gasket KH10146, 271030 Gasket KH10274, 47 049 01	X

SECTION 9 - KOHLER ENGINE Baffles & SHROUDS



SECTION 9 - KOHLER ENGINE BAFFLES & SHROUDS

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-4 KOHLER BAFFLES & SHROUDS				
1	KH10281	47 063 09	Head Baffle 310.....	1
	KH10231	45 063 08	Head Baffle 312.....	1
2	KH10567	X-25-53	Washer 1/4.....	1
3	KH10289	47 086 08	Screw Pozidriv T.H. 1/4-20 x 5/8.....	3
4	KH10413	52 086 11	Screw Hex Hd.....	6
5	KH10172	47 063 10	Cylinder Baffle.....	1
6	KH10280	47 063 07	Inner Baffle.....	1
7	KH10265	47 027 42	Blower Housing.....	1
9	KH10279	47 063 06	Side Air Baffle.....	1
*		47 113 18	Decal HP.....	1

* Not Illustrated

SECTION 9 - KOHLER ENGINE BREATHER & VENT

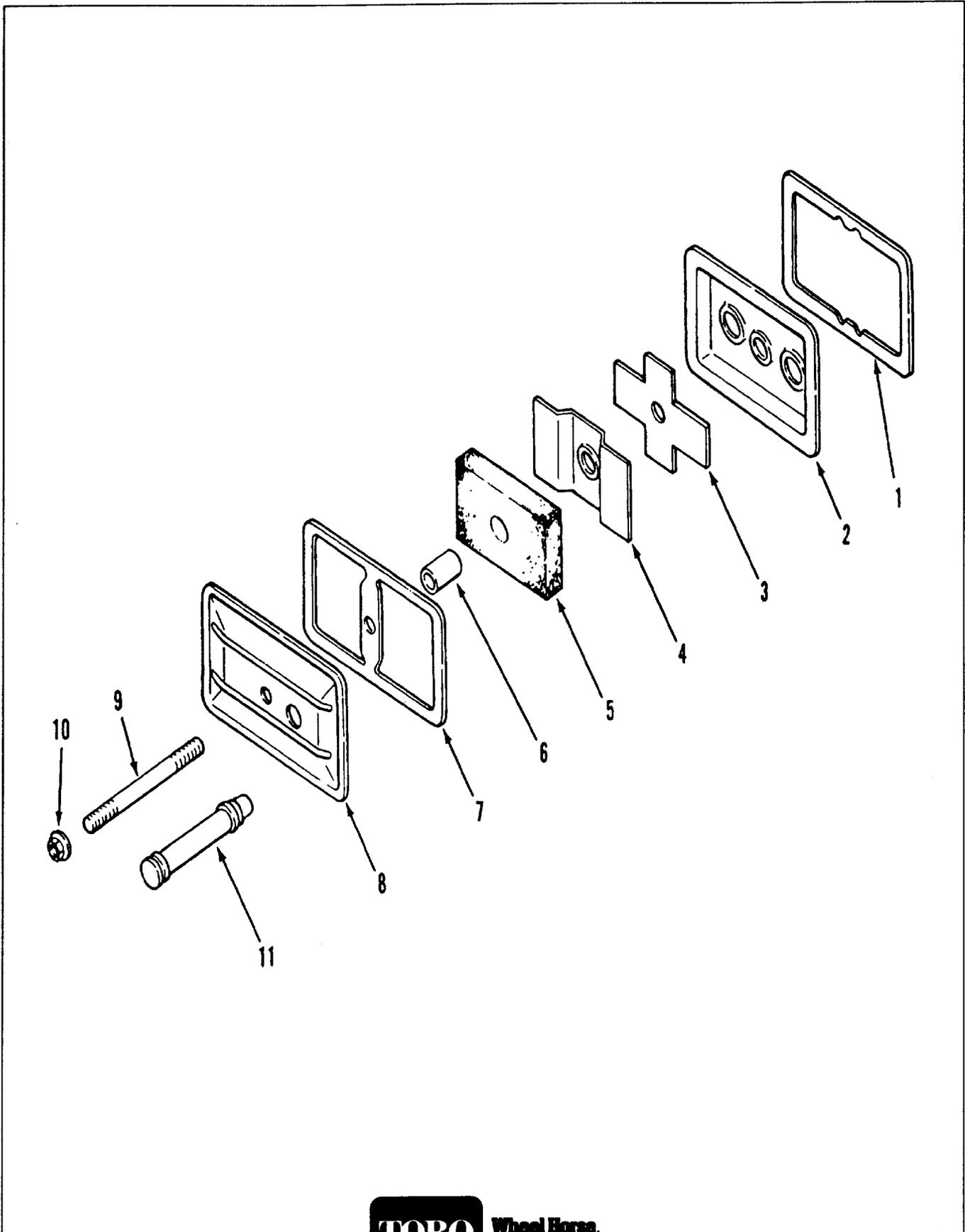
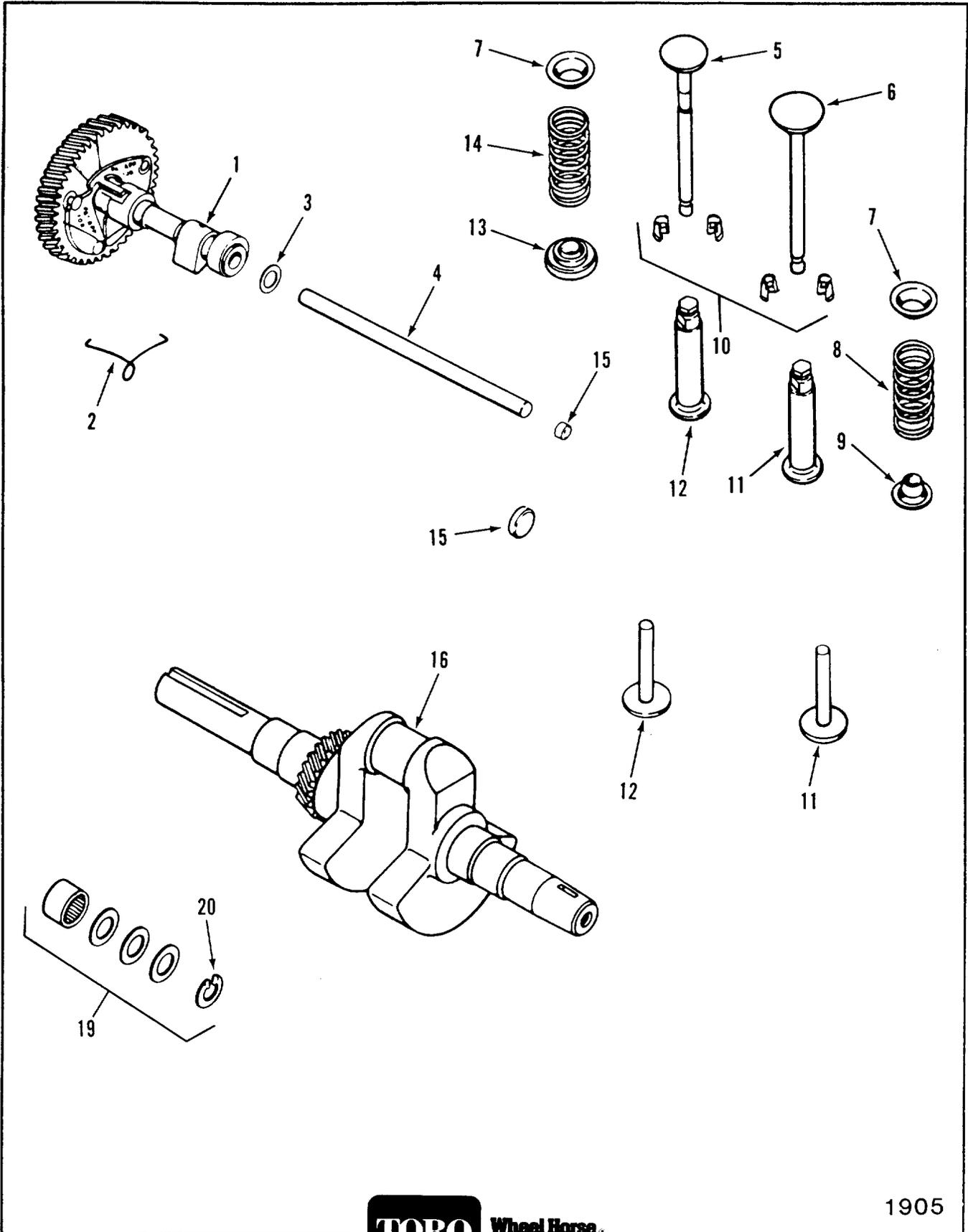


FIGURE 9-5 BREATHER & VENT

SECTION 9 - KOHLER ENGINE BREATHER & VENT

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-5 KOHLER BREATHER & VENT				
1	KH10058	235048	Gasket.....	1
2	KH10072	235631	Plate.....	1
3	KH10057	235047	Reed.....	1
4	KH10143	270146	Baffle.....	1
5	KH10275	47 050 01	Filter.....	1
6	KH10034	231032	Seal.....	1
7	KH10149	275144	Gasket.....	1
8	KH10298	47 096 01	Cover.....	1
9	KH10150	275220	Stud 1/4-20 x 3-1/4.....	1
10	KH10629	X-799-1	Palnut 1/4-20.....	1
11	KH10309	47 326 03	Hose 3-11/32.....	1

SECTION 9 - KOHLER ENGINE CAMSHAFT, CRANKSHAFT & VALVES

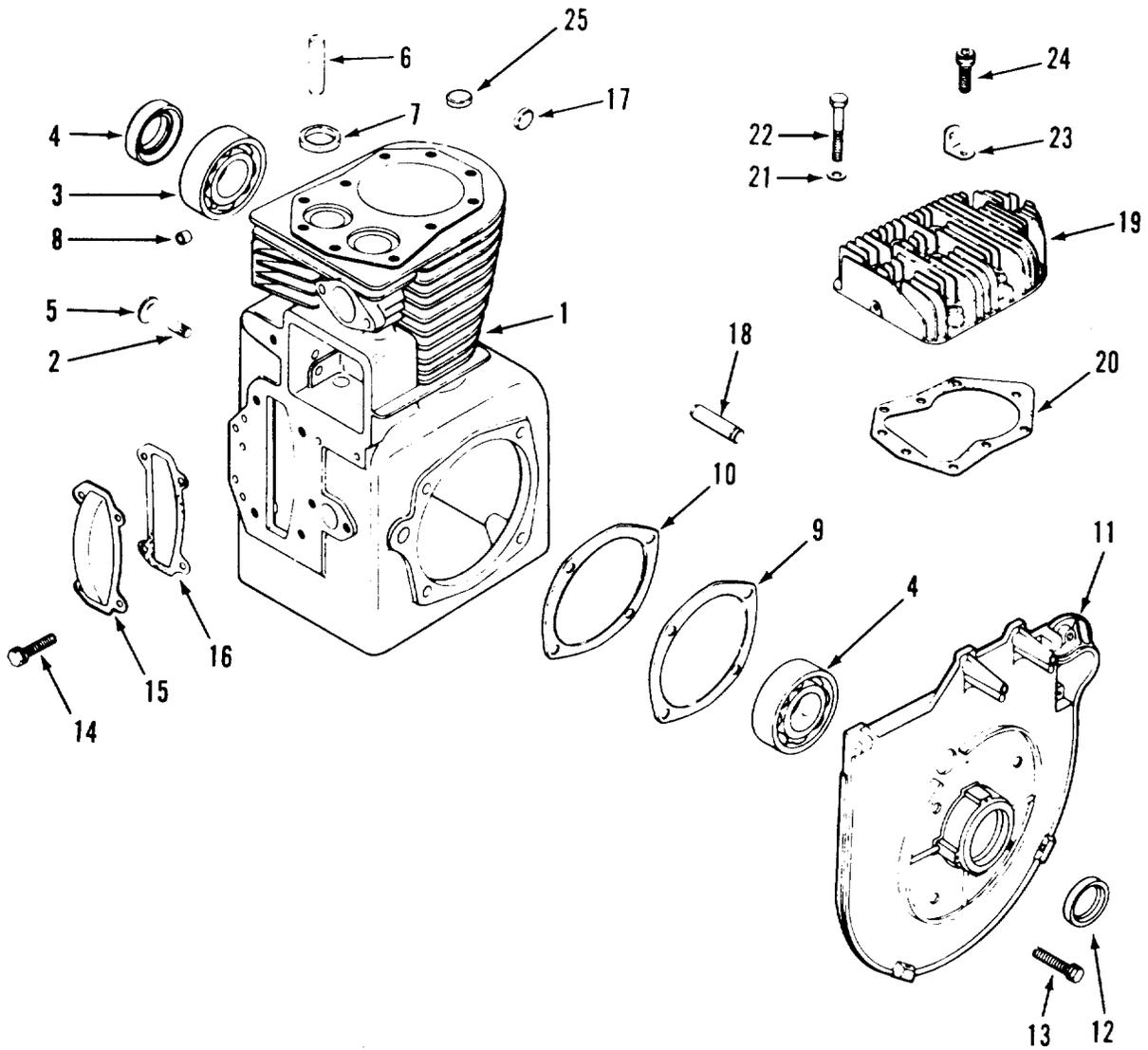


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SECTION 9 - KOHLER ENGINE CAMSHAFT, CRANKSHAFT & VALVES

TORO				
WHEEL HORSE	VENDOR PART			
ITEM	PART NO.	NUMBER	DESCRIPTION	Quantity
Figure 9-6 KOHLER CAMSHAFT, CRANKSHAFT & VALVES				
1	KH10359	47 010 11	Camshaft Assy (Includes Item 2)	1
2	KH10292	47 089 01	Spring	1
3	KH10147	275066	Spacer .005	X
	KH10148	275067	Spacer .010	X
4	KH10310	47 380 09	Camshaft Pin	1
5	KH10074	235838	Exhaust Valve 310,312	1
6	KH10052	235008	Intake Valve 310,312	1
7	KH10054	235011	Upper Spring Retainer	2
8	KH10053	235010	Intake Valve Spring 312	1
	KH10062	235168	Intake Valve Spring 310	1
9	KH10018	230011	Spring Retainer 310,312	1
10	KH10221	41 755 10	Retainer Kit	2
11	KH10539	D-235327	Intake Valve Tappet	1
12	KH10539	D-235327	Exhaust Valve Tappet	1
13	KH10496	52 413 01	Valve Rotator	2
14	KH10053	235010	Spring 310	1
	KH10062	235168	Spring 312	1
15	KH10617	X-702-3	Cup Plug 1/2 O.D.	1
16	KH10305	47 142 02	Crankshaft Kit 3-25/32 x 1-1/8 (Includes Flywheel Hdwr.) 310	1
	KH10655	47 142 16	Crankshaft Kit 3-25/32 x 1-1/8 (Includes Flywheel Hdwr.) 312	1
19	KH10322	47 755 01	Spacer Kit (Includes Item 20) 312	2
20	KH10574	X-269-34	Retainer 312	1

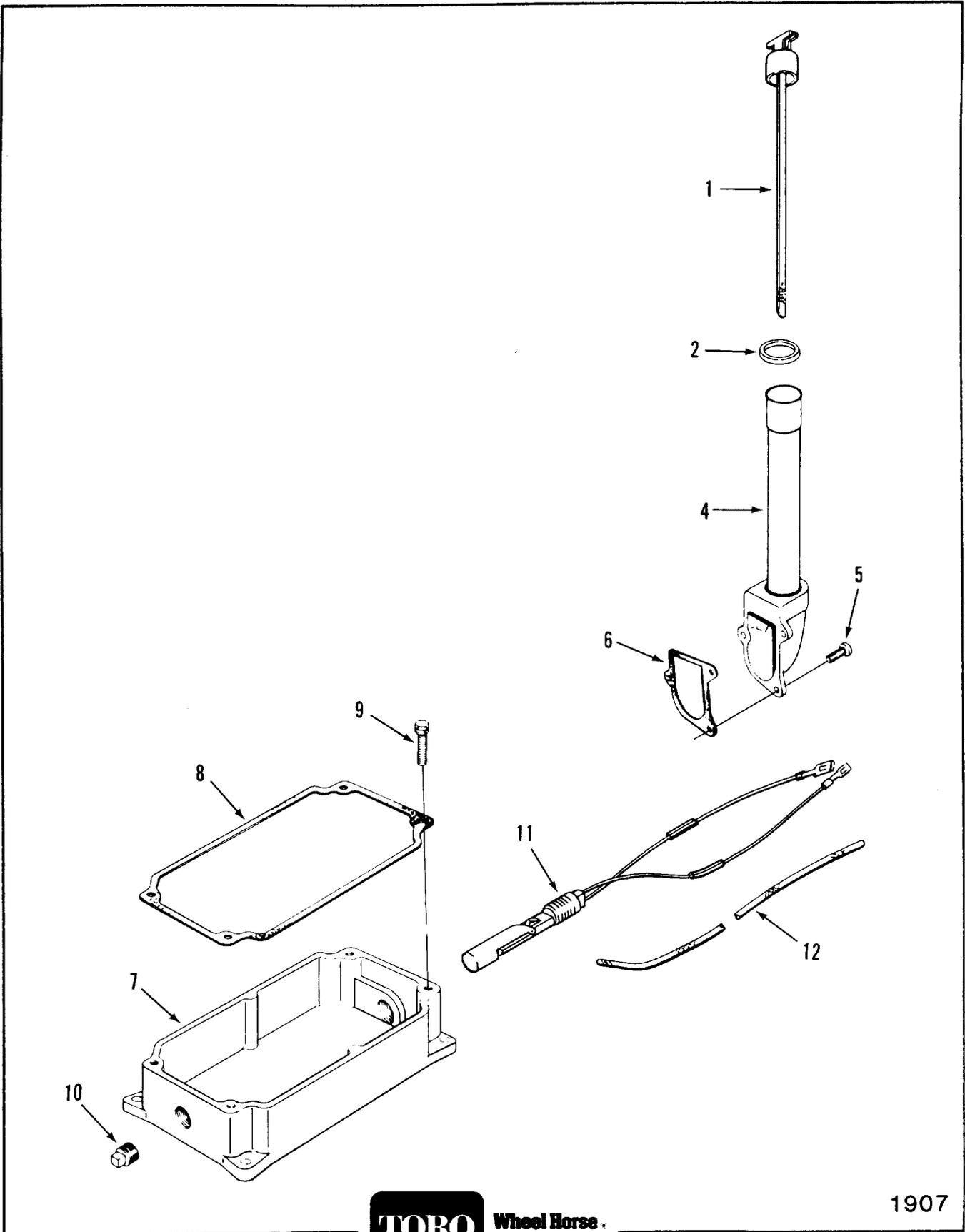
SECTION 9 - KOHLER ENGINE CRANKCASE & CYLINDER HEAD



SECTION 9 - KOHLER ENGINE CRANKCASE & CYLINDER HEAD

TORO				
ITEM	WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-7 KOHLER CRANKCASE & CYLINDER HEAD				
1			Cylinder Block - Service With Short Block (Includes Crankshaft)	
	KH10316	47 782 32	310	X
	KH10691	77 522 35	312	X
			Miniblock (Less Crankshaft)	
	KH10326	47 782 32	310	X
	KH10721	47 782 67	312	X
2	KH10061	235125-S	Governor Gear Shaft 312.....	1
3	KH10067	235376	Ball Bearing	2
4	KH10269	47 032 07	Seal.....	1
5	KH10562	X-230-11	Plug (310/312).....	1
6	KH10015	230007-S	Valve Guide.....	2
7	KH10028	230170	Exhaust Valve Insert.....	1
8	KH10049	234866	Governor Cross Shaft Bearing.....	1
9	KH10272	47 041 09	Gasket.....	1
10	KH10311	47 422 05	Gasket	X
11	KH10687	47 146 11	Bearing Plate	1
12	KH10268	47 032 06	Seal.....	1
13	KH10549	X-159-2	Screw 3/8-16 x 1.....	4
14	KH10545	X-132-6	Screw 1/4-20 x 1/2.....	4
15	KH10661	235026	Cover.....	1
16	KH10055	235025	Gasket.....	1
17	KH10615	X-702-12	Plug 5/16 O.D. 310 (310 only).....	1
18	KH10081	236559	Balance Gear Shaft 312.....	1
19	KH10261	47 015 06	Cylinder Head 312.....	1
	KH10260	47 015 05	Cylinder Head 310.....	1
20	KH10700	47 041 15	Gasket.....	1
21	KH10145	270889	Washer 3/8	9
22	KH10144	270158	Screw 3/8-16 x 1-1/2	8
23	KH10312	47 445 02	Lifting Strap.....	1
24	KH10290	47 086 17	Screw 3/8-16 x 1.....	1
25		X-702-3	Plug Cup (310 only).....	2

SECTION 9 - KOHLER ENGINE OIL PAN & DIPSTICK



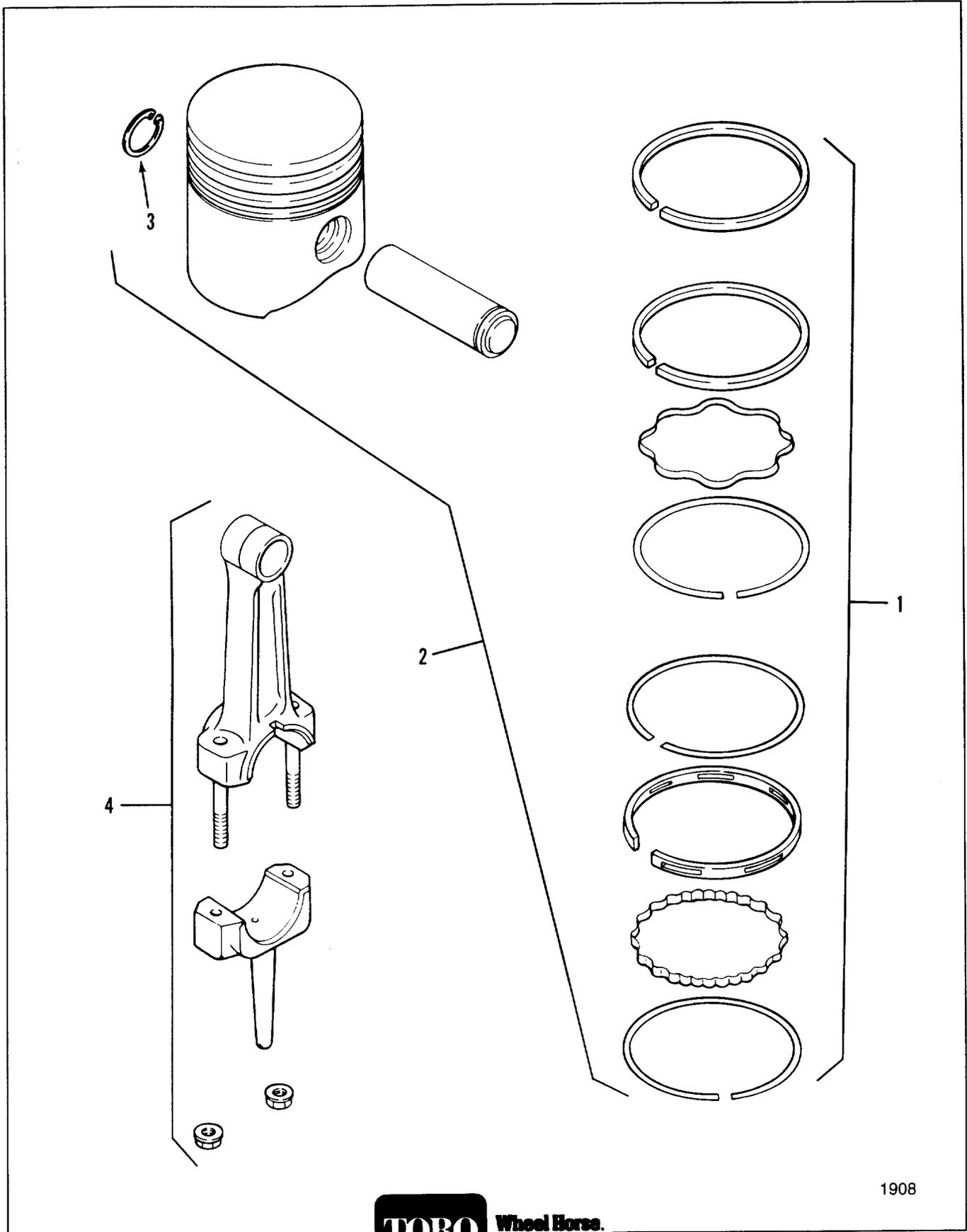
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FIGURE 9-8 OIL PAN & DIPSTICK

SECTION 9 - KOHLER ENGINE OIL PAN & DIPSTICK

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-8 KOHLER OIL PAN & DIPSTICK				
1	KH10270	47 038 27	Dipstick 15-5/8	1
2	KH10201	41 153 01	O-Ring.....	1
4	KH10266	47 029 06	Oil Fill Adapter	1
5	KH10541	X-131-2	Screw #10-24 x 1/2.....	3
6	KH10088	237064	Gasket.....	1
7	KH10730	45 199 05	Oil Pan	1
8	KH10059	235057	Gasket.....	1
9	KH10550	X-159-3	Screw 3/8-16 x 1 1/4.....	4
10	KH10620	X-75-10	Plug 3/8 NPTF	4
11	KH10138	25 704 01	Float Switch Kit (Includes Items 12 & Decal) 310S	1
		25 704 04	Float Switch Kit (Includes Items 12 & Decal) 312S	1
12	KH10134	25 431 02	Sleeving	1
Not Illustrated				
	KH10119	25 113 051	Float Switch Decal.....	1
	KH10345	48 155 01	Female Connector (5-Contact).....	1
	KH10325	47 755 22	Gasket Set w/Seals 310S	X
		47 755 27	Gasket Set w/Seal 312S	X
	KH10258	47 004 02	Gasket Set w/o Seals.....	X

SECTION 9 - KOHLER ENGINE PISTON & RINGS



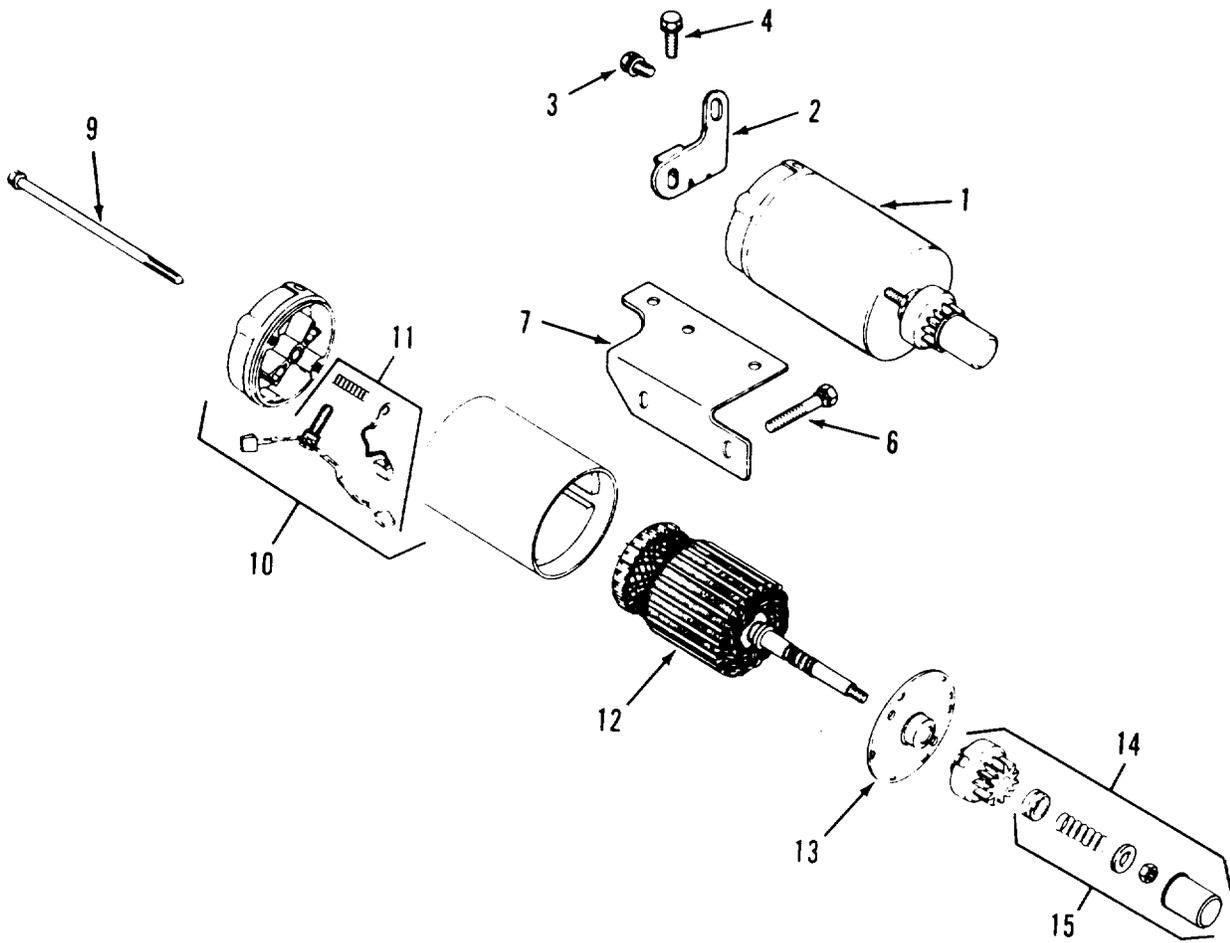
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SECTION 9 - KOHLER ENGINE PISTON & RINGS

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-9 KOHLER PISTON & RINGS				
1	KH10063	235287	Ring Set Std. & .003 310	1
	KH10064	235288	Ring Set .010 310	1
	KH10065	235289	Ring Set .020 310	1
	KH10066	235290	Ring Set .030 310	1
	KH10703	47 108 01	Ring Set Std. & .003 312	1
	KH10704	47 108 02	Ring Set .010 312	1
	KH10705	47 108 03	Ring Set .020 312	1
	KH10706	47 108 04	Ring Set .030 312	1
2	KH10329	47 874 01	Piston w/Ring Set Std. 310	1
	KH10330	47 874 02	Piston w/Ring Set .003 310	1
	KH10331	47 874 03	Piston w/Ring Set .010 310	1
	KH10332	47 874 04	Piston w/Ring Set .020 310	1
	KH10333	47 874 05	Piston w/Ring Set .030 310	1
	KH10711	47 874 16	Piston w/Ring Set Std. 312	1
	KH10712	47 874 17	Piston w/Ring Set .003 312	1
	KH10713	47 874 18	Piston w/Ring Set .010 312	1
	KH10714	47 874 19	Piston w/Ring Set .020 312	1
	KH10715	47 874 20	Piston w/Ring Set .030 312	1
3	KH10262	47 018 01	Piston Pin Retainer	2
4	KH10285	45 067 13	Connecting Rod Std. 310	1
	KH10286	45 067 14	Connecting Rod .010 310	1
	KH10698	47 067 24	Connecting Rod Std. 312	1
	KH10699	47 067 25	Connecting Rod .010 312	1

SECTION 9 - KOHLER ENGINE STARTER



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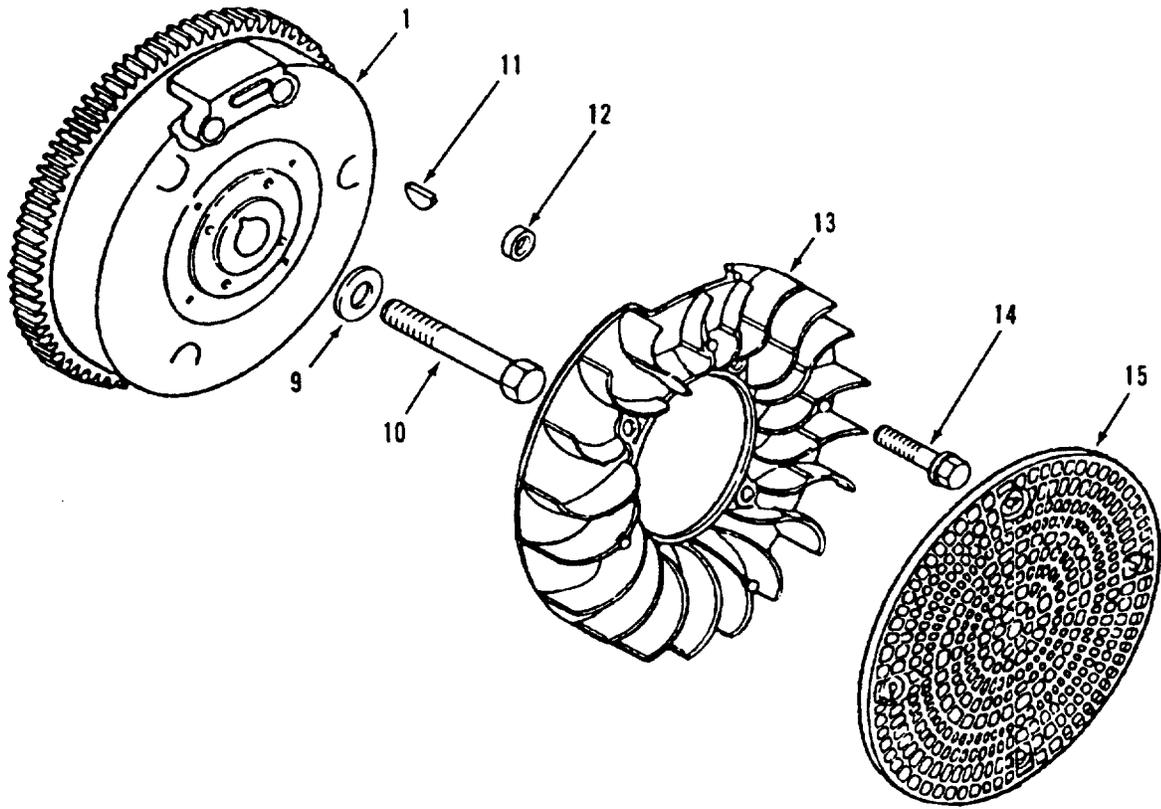


FIGURE 9-10 STARTER

SECTION 9 - KOHLER ENGINE STARTER

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-10 KOHLER STARTER				
1	KH10187	41 098 04	Starter Assembly (Includes Items 9 thru 15)	1
2	KH10244	45 126 17	Starter Tail Brace	1
3	KH10607	X-67-62	Screw Hex Hd. 1/4-20 x 3/4	1
4	KH10610	X-67-83	Screw Hex Hd. 1/4-20 x 3/8	1
6	KH10549	X-159-2	Screw 3/8-16 x 1	2
7	KH10304	47 126 29	Starter Bracket.....	1
9	KH10181	41 086 19	Bolt 1/4-20 x 5-1/16	2
10	KH10210	52 227 03	Commutator End Cap Assembly (Includes Item 11).....	1
11	KH10515	52 755 15	Brush Kit	1
12	KH10247	45 170 02	Armature	1
13	KH10209	41 227 03	Drive End Cap	1
14	KH10323	47 755 07	Drive Kit (Includes Item 15)	1
15	KH10324	47 755 13	Drive Parts Kit.....	1
Not Illustrated				
	KH10135	25 450 03	Caution Tag.....	1
	KH10304	47 126 89	Solenoid Bracket.....	1
	KH10549	X-159-2	Screw 3/8-16 x 1.....	1

SECTION 9 - KOHLER ENGINE FLYWHEEL



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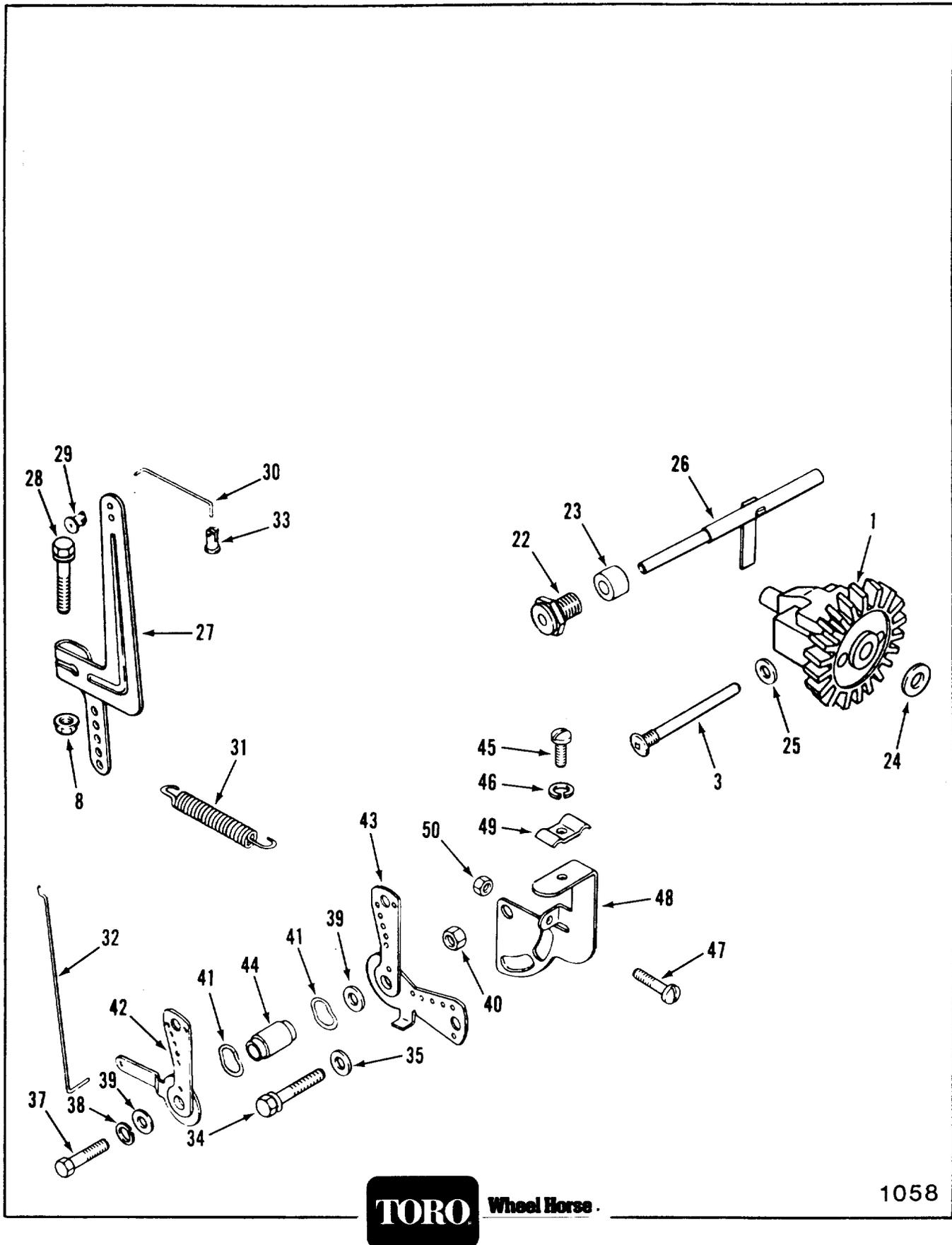


FIGURE 9-11 FLYWHEEL

SECTION 9 - KOHLER ENGINE FLYWHEEL

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
			Figure 9-11 KOHLER FLYWHEEL	
1	KH10263	47 025 53	Flywheel.....	1
9	KH10666	52 468 15	Washer 13/32 ID, 1-3/8 OD	1
10	KH10108	25 086 24	Screw 3/8-24 x 1-1/8	1
11	KH10588	X-46-3	Woodruff Key 3/16 x 1	1
12	KH10112	25 112 04	Spacer 17/64 ID, 3/8 OD 15/64 Lg.....	4
13	KH10124	25 157 01	Fan	1
14	KH10107	25 086 21	Screw Hex Hd. 1/4-20 x 5/8	4
15	KH10126	25 162 01	Screen.....	1

SECTION 9 - KOHLER ENGINE GOVERNOR LINKAGE



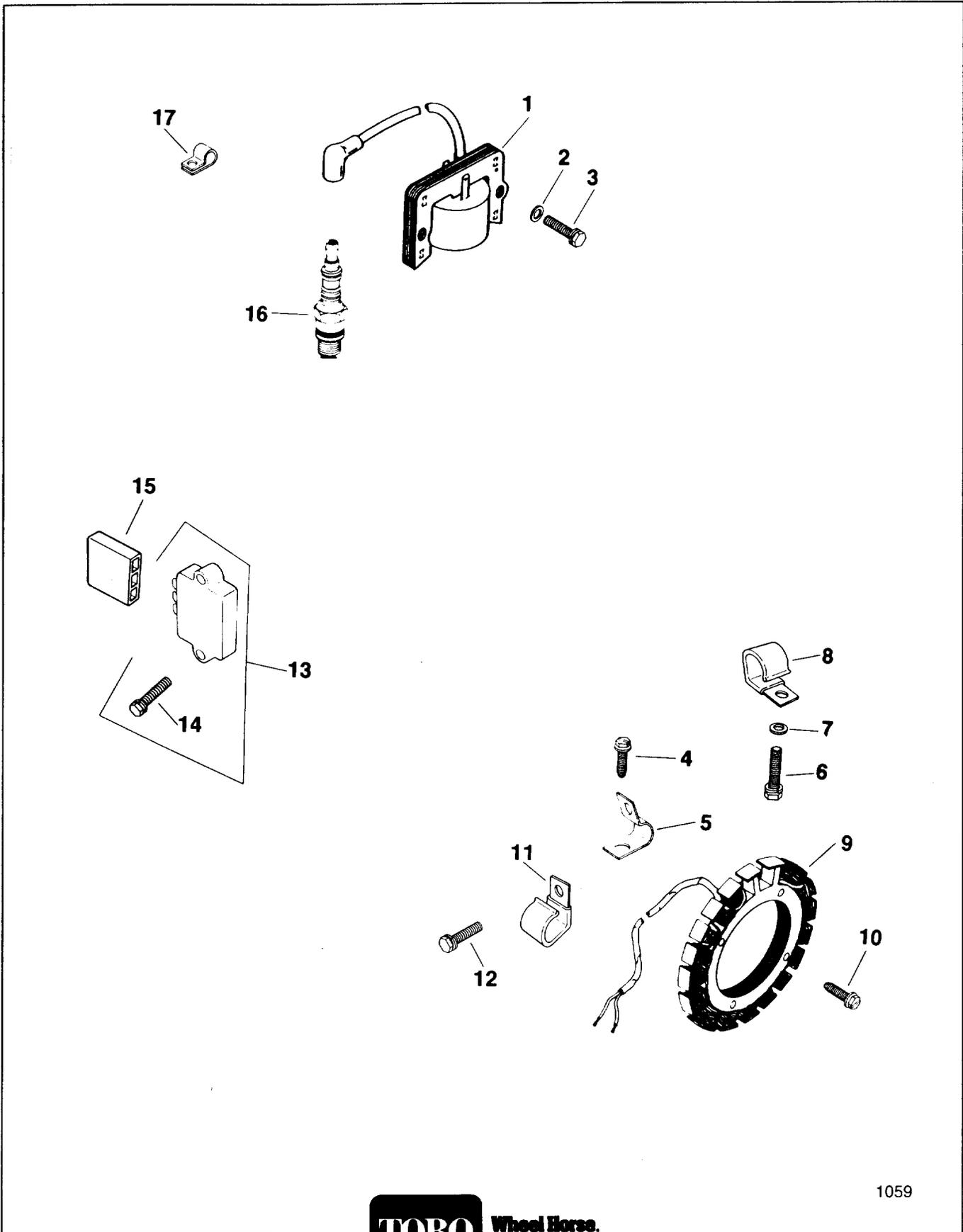
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FIGURE 9-12 GOVERNOR LINKAGE

SECTION 9 - KOHLER ENGINE GOVERNOR LINKAGE

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-12 KOHLER GOVERNOR LINKAGE				
1	KH10660	A235743-S	Governor Gear Kit (Includes 24)	1
3	KH10035	231355	Governor Stop Pin	1
8	KH10629	X-799-1	Palnut 1/4-20	1
22	KH10070	235476	Bushing	1
23	KH10585	X-400-80	Spacer	1
24	KH10087	237022	Washer	1
25	KH10826	25 468 01	Washer	1
26	KH10538	A-235256-S	Governor Cross Shaft Kit	1
27	KH10295	47 090 20	Governor Lever	1
28	KH10626	X-776-1	Screw 1/4-20 x 1/2	1
29	KH10668	47 158 07	Bushing	1
30	KH10288	47 079 05	Linkage (Governor to Carb.)	1
31	KH10296	47 091 01	Spring (Governor to Carb.)	1
32	KH10287	47 079 01	Choke Linkage (Carb. to Choke Shaft)	1
33	KH10686	25 158 09	Bushing	1
34	KH10545	X-132-6	Screw 1/4-20 x 1/2	1
35	KH10570	X-25-72	Washer 1/4	1
37	KH10600	X-5-26	Screw 1/4-20 x 1-1/2 *	1
38	KH10556	X-20-1	Lockwasher 1/4 *	1
39	KH10549	X-25-63	Washer 1/4 *	1
40	KH10624	X-76-2	Nut 1/4-20 *	1
41	KH10152	275690	Washer *	2
42	KH10293	47 090 07	Choke Control Lever *	1
43	KH10294	47 090 08	Throttle Control Lever *	1
44	KH10302	47 112 02	Spacer 23/64 OD , 13/16 *	1
45	KH10605	X-67-51	Screw #10-24 x 1	1
46	KH10695	25 468 04	Washer	1
47	KH10040	232556	Screw	1
48	KH10303	47 126 09	Clutch Control Bracket	1
49	KH10308	47 237 02	Clamp	1
50	KH10619	X-72-4	Nut #8-32	1
	KH10291	47 087 03	*Choke Lever Assembly (Includes Items 37 thru 44)	1

SECTION 9 - KOHLER ENGINE IGNITION SYSTEM



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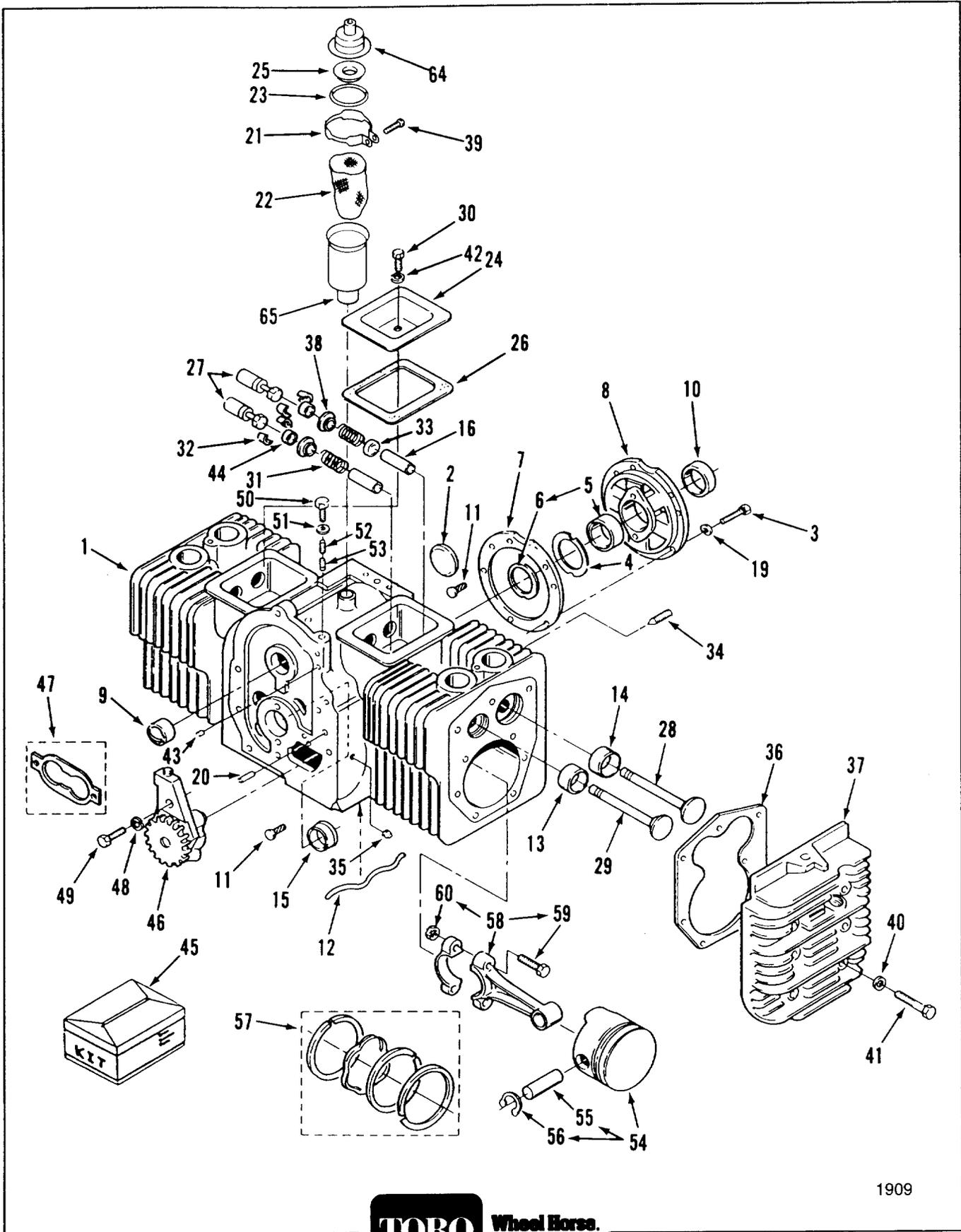


FIGURE 9-13 IGNITION SYSTEM

SECTION 9 - KOHLER ENGINE IGNITION SYSTEM

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 9-13 KOHLER IGNITION SYSTEM				
1	KH10321	47 584 02	Ignition Module (After Serial #1715900003).....	1
2	KH10572	X-25-79	Washer #10	2
3	KH10548	X-156-1	Screw #10-24 x 7/8.....	2
4	KH10606	X-67-59	Screw Hex Hd. #8-32 x 3/8	1
5	KH10618	X-728-1	Clip	1
6		X-67-83	Screw 1/4-20 x 7/16	1
7		X-25-72	Washer Flat 1/4	1
8		47 154 01	Clip	1
9	KH10091	237878	Stator Kit 15 amp (Includes Item #8)	1
10	KH10605	X-67-51	Screw Pozidrive #10-24 x 3/4.....	4
11		235173	Clip	1
12		X-132-6	Screw 1/4-20 x 1/2.....	1
13	KH10215	25 755 03	Regulator-Rectifier.....	2
14	KH10543	X-132-5	Screw 1/4-20 x 1.....	2
15	KH10082	236602	Connector	1
16	KH10056	234041-S	Spark Plug	1
17	KH10010	210281	Hi-Tension Clip.....	1
Not Illustrated				
	KH10315	47 518 43	Lead - White w/Diode, Svc. Replacement Lead For Leads w/Diode (5") All Before Serial #1715900013	1
	KH10314	47 518 37	Lead - White, Module to Connector (15") After Serial #1715900003).....	1
	KH10313	47 518 36	Lead - Violet, Regulator-Rectifier to Connector (23")	1
	KH10570	X-25-72	Washer 1/4	1
	KH10344	48 154 1	Clip	1

SECTION 9 - TORO POWER PLUS ENGINE CYLINDER BLOCK



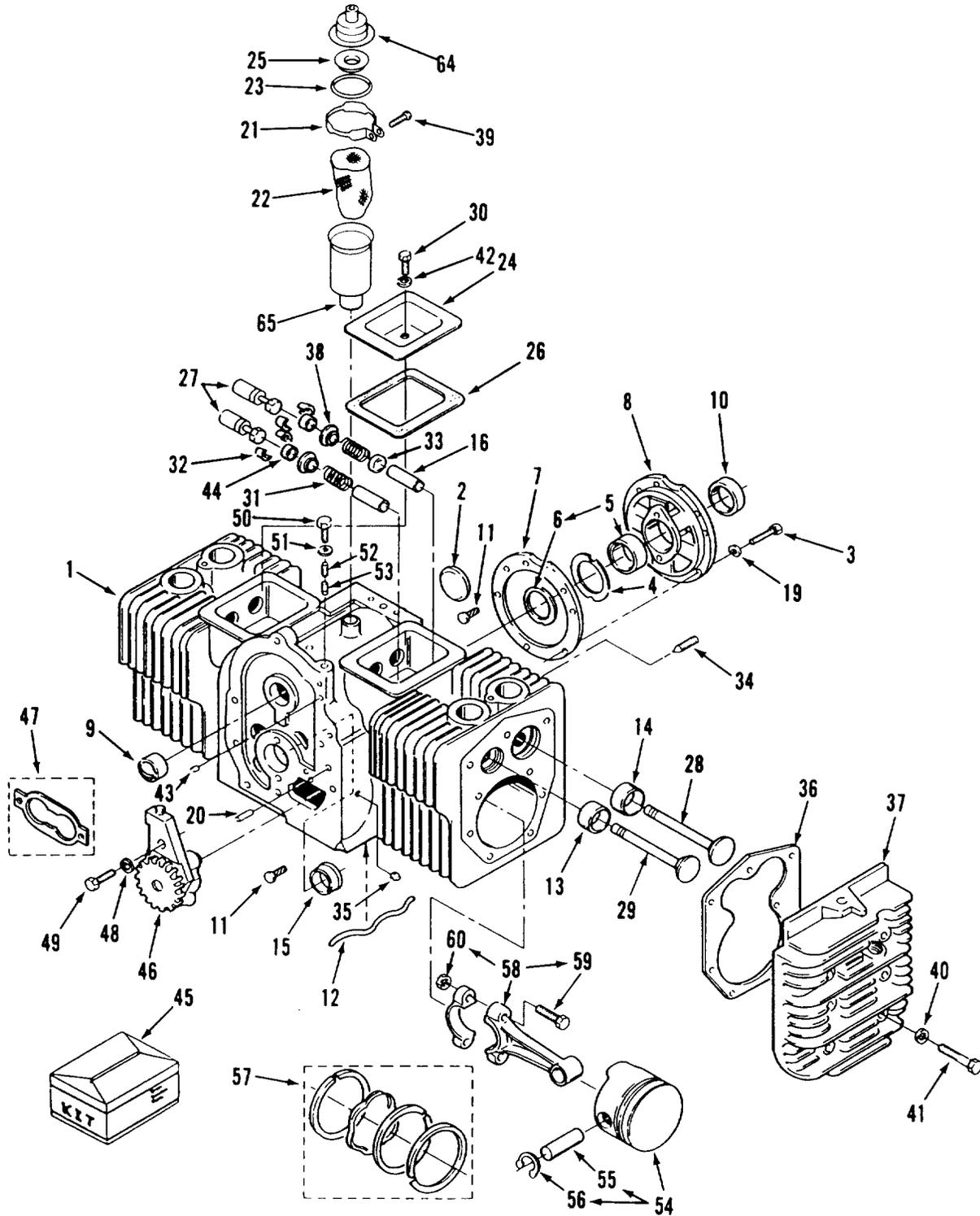
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SECTION 9 - TORO POWER PLUS ENGINE CYLINDER BLOCK

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-14 ENGINE CYLINDER BLOCK			
1	NN10850	Short Block.....	1
2	57-9690	Plug	1
3	82-145	Bolt 3/8-16 x 1-1/4.....	5
4	57-8170	Shim 0.005".....	X
5	NN10009	Crankshaft Rear Brg - Standard.....	1
	NN10010	Crankshaft Rear Brg - .002" Under	1
	NN10011	Crankshaft Rear Brg - .010" Under	1
	NN10012	Crankshaft Rear Brg - .020" Under	1
	NN10013	Crankshaft Rear Brg - .030" Under	1
6	NN10476	Thrust Washer.....	2
7	57-8010	Gasket	1
8	201027	Bearing Plate.....	1
9	NN10001	Camshaft Brg	2
10	57-9590	Oil Seal.....	1
11	59-0730	Stop Pin.....	4
12	59-0290	Oil Tube	1
13	59-0100	Exhaust Seat Insert - Standard	2
	59-0110	Exhaust Seat Insert - .002" Oversize	2
	59-0120	Exhaust Seat Insert - .005" Oversize	2
	59-0130	Exhaust Seat Insert - .010" Oversize	2
	59-0140	Exhaust Seat Insert - .025" Oversize	2
14	59-0050	Intake Seat Insert - Standard.....	2
	59-0060	Intake Seat Insert - .002" Oversize.....	2
	59-0070	Intake Seat Insert - .005" Oversize.....	2
	59-0080	Intake Seat Insert - .010" Oversize.....	2
	59-0090	Intake Seat Insert - .025" Oversize.....	2
15	NN10003	Front Crankshaft Brg - Standard.....	1
	NN10004	Front Crankshaft Brg - .002" Under	1
	NN10005	Front Crankshaft Brg - .010" Under	1
	NN10006	Front Crankshaft Brg - .020" Under	1
	NN10007	Front Crankshaft Brg - .030" Under	1
16	NN10479	Exhaust Valve Guide.....	2
	NN10478	Intake Valve Guide	2
19	82-1640	Spring Washer 3/8	5
20	NN10336	Pin.....	2
21	82-0530	Clamp	1
22	57-8580	Baffle Breather	1
23	82-0570	Seal	1
24	NN10821	Valve Cover	2
25	82-0560	Screen	2
26	NN10822	Gasket	2
27	NN10129	Tappet - Standard.....	4
	NN10130	Tappet .002" Oversize.....	4
	NN10131	Tappet .004" Oversize.....	4
28	NN10075	Intake Valve	2
29	NN10075	Exhaust Valve.....	2
30	NN10370	Bolt 1/4-20 x 1-3/4.....	2
31	NN10077	Spring	4
32	NN10082	Spring Lock	8
33	509-289	Seal	2

SECTION 9 - TORO POWER PLUS ENGINE CYLINDER BLOCK



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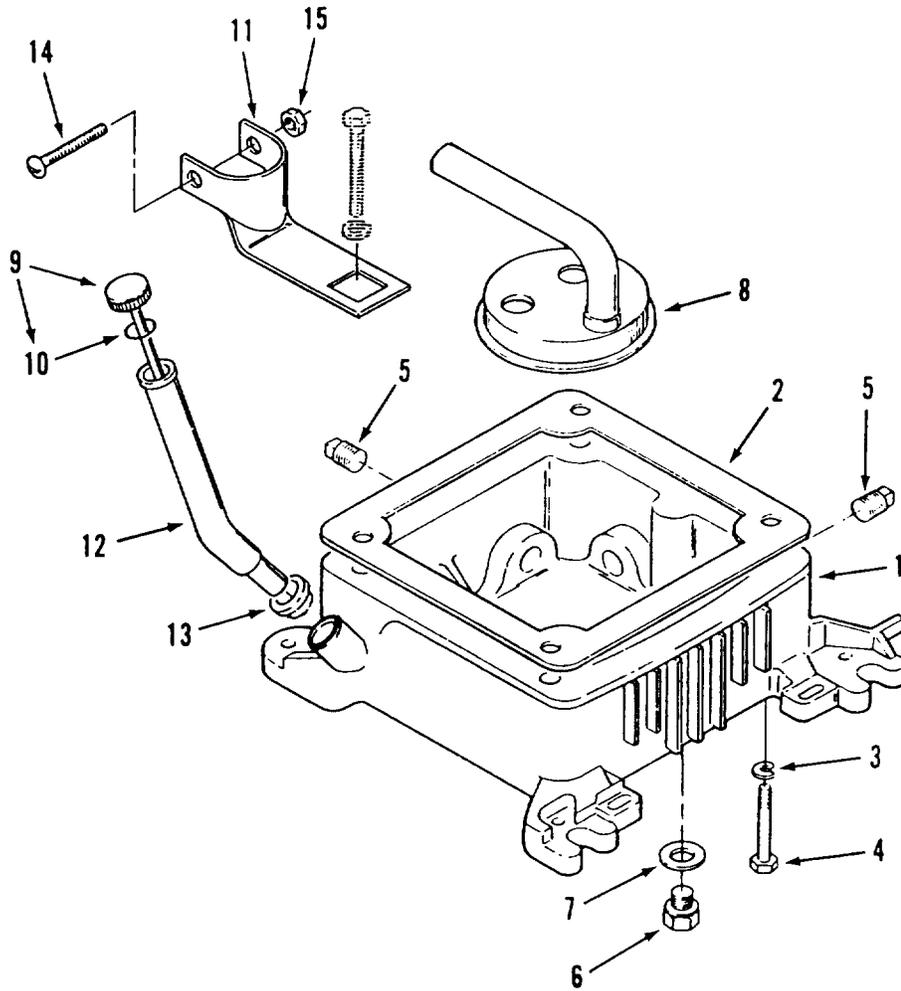
SECTION 9 - TORO POWER PLUS ENGINE CYLINDER BLOCK

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-14 ENGINE CYLINDER BLOCK (CONT'D)			
34	NN10385	Screw 3/8-16 x 5/8	2
35	NN10307	Plug	1
36	NN10070	Gasket	2
37	NN10080	Right Cylinder Head	1
	NN10079	Left Cylinder Head	1
38	NN10078	Washer	4
39	82-1480	Screw #8 x 3/4	1
40	57-9770	Flat Washer 1/4	18
41	NN10381	Special Bolt 2" long	10
42	NN10359	Washer 1/4	2
43	59-0760	Plug	1
44	71-5830	Valve Cap	4
45	168-0187	Engine Gasket Kit	1
	168-0189	Valve Grind/Carbon Removal	1
46	57-8480	Oil Pump-Complete	1
47	57-8460	Oil Pump-Gasket Kit	1
48	82-1340	Spring Washer	2
49	87-1370	Bolt 1/4-20 x 1	2
50	59-0910	Bolt 3/8-24 x 7/8	1
51	57-9760	Washer 3/8	1
52	NN10133	Spring	1
53	NN10135	Plunger	1
54	57-8350	Piston Pin & Retaining Rings - STD	2
	59-0190	Piston Pin & Retaining Rings - .005"	2
	57-8360	Piston Pin & Retaining Rings - .010"	2
	57-8370	Piston Pin & Retaining Rings - .020"	2
	59-0200	Piston Pin & Retaining Rings - .030"	2
55	NN10100	Piston Pin	2
56	NN10345	Retaining Ring	4
57	57-8380	Piston Ring Set-Standard	2
	59-0220	Piston Ring Set .005" Oversize	2
	57-8390	Piston Ring Set .010" Oversize	2
	57-8400	Piston Ring Set .020" Oversize	2
	59-0230	Piston Ring Set .030" Oversize	2
58	NN10125	Rod w/Bolts & Nuts - STD	2
	NN10126	Rod w/Bolts & Nuts - .010"	2
	NN10127	Rod w/Bolts & Nuts - .020"	2
	NN10128	Rod w/Bolts & Nuts - .030"	2
59	NN10120	Special Rod Bolt	4
60	NN10428	Nut	4
64	82-0550	Breather Cap and Valve	1
65	82-0540	Baffle Breather Tube	1

SECTION 9 - TORO POWER PLUS CRANKSHAFT, CAMSHAFT & FLYWHEEL

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-15 CRANKSHAFT, CAMSHAFT, FLYWHEEL			
1	NN10853	Crankshaft.....	1
2	57-9710	Retaining Ring.....	1
3	NN10439	Washer	1
4	NN10438	Gear.....	1
5	NN10331	Key.....	1
6	NN10215	Retaining Ring.....	1
7	NN10221	Governor Cup Hub.....	1
8	NN10222	Governor Cup.....	1
9	57-9640	Ball.....	1
10	57-9660	Key.....	1
11	NN10032	Camshaft (Includes item 13).....	1
12	57-8210	Camshaft Gear (Includes Gear, Spacer and Plate)	1
13	NN10030	Washer	1
14	NN10214	Pin.....	1
15	NN10171	Flywheel (Includes Ring Gear)	1
16	NN10021	Screw.....	1
17	82-1320	Washer 7/16.....	1
18	NN10355	Washer 7/16.....	1
19	NN10409	Screw #10-24 x 3/8	6
20	NN10416	Screw 5/16-18 x 1/2	4
21	NN10496	Screen	1
22	57-8180	Ring Gear.....	1
23	71-6190	Key.....	1

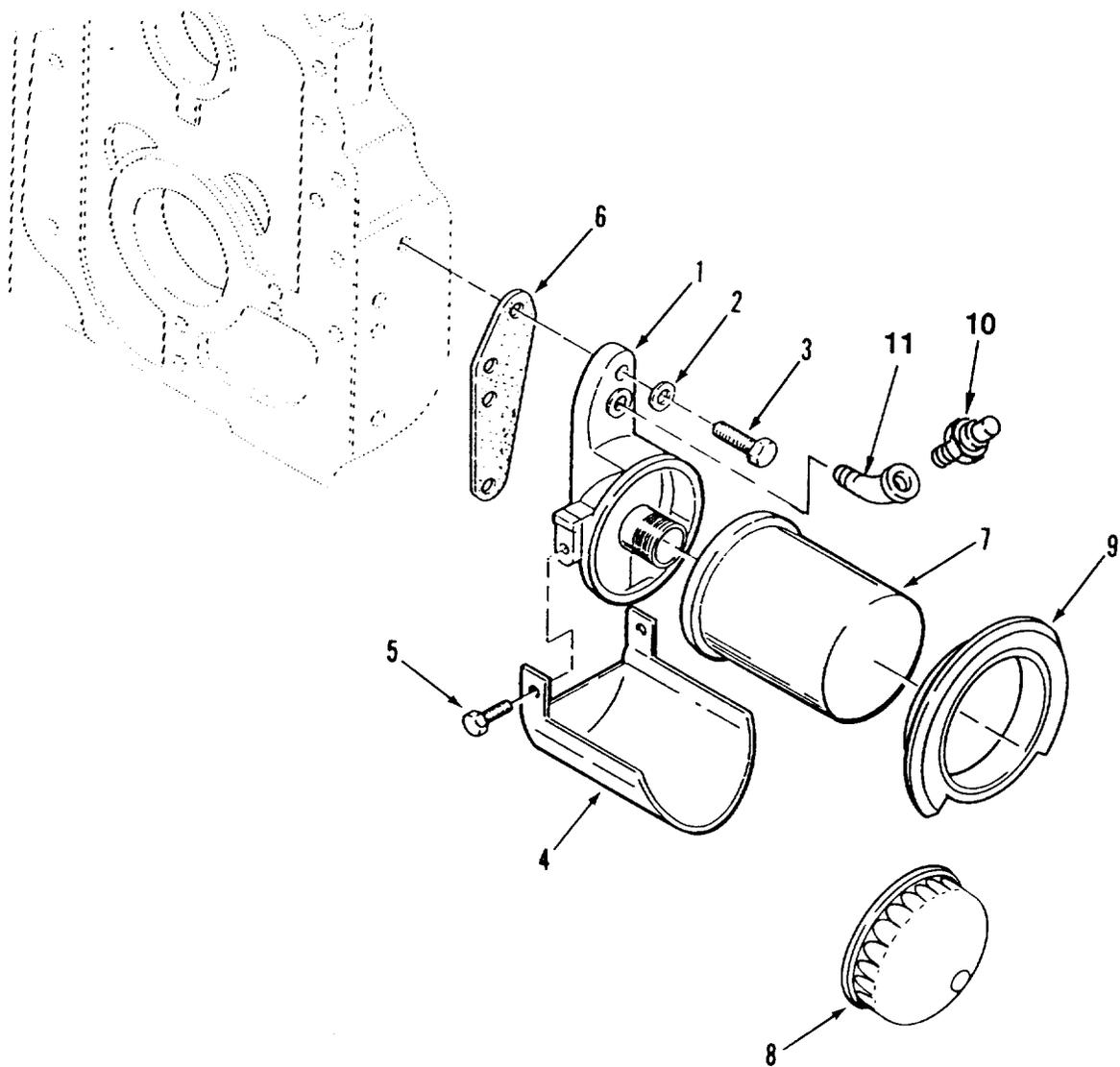
SECTION 9 - TORO POWER PLUS OIL BASE FILL TUBE AND BRACKET



SECTION 9 - TORO POWER PLUS OIL BASE FILL TUBE AND BRACKET

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 9-16 OIL BASE FILL TUBE AND BRACKET	
1	71-5730	Oil Base (Includes All Plugs and Plug Gasket).....	1
2	102-1387	Gasket	1
3	82-1310	Spring Lockwasher 3/8	4
4	NN10379	Screw 3/8-16 x 3-3/4.....	4
5	82-1130	Plug Sq. Hd. 3/8.....	2
6	NN10015	Plug	1
7	NN10014	Gasket	1
8	NN10138	Oil Pump Intake Cup.....	1
9	NN10159	Oil Fill Cap and Indicator (Includes "O" Ring)	1
10	NN10323	Oil Ring	1
11	NN10162	Bracket.....	1
12	NN10161	Oil Fill Tube-Chrome 15-3/4" Lg.	1
13	NN10690	Seal	1
14	NN10407	Screw #10 x 1-1/4	1
15	82-1700	Speed Nut	1

SECTION 9 - TORO POWER PLUS OIL FILTER



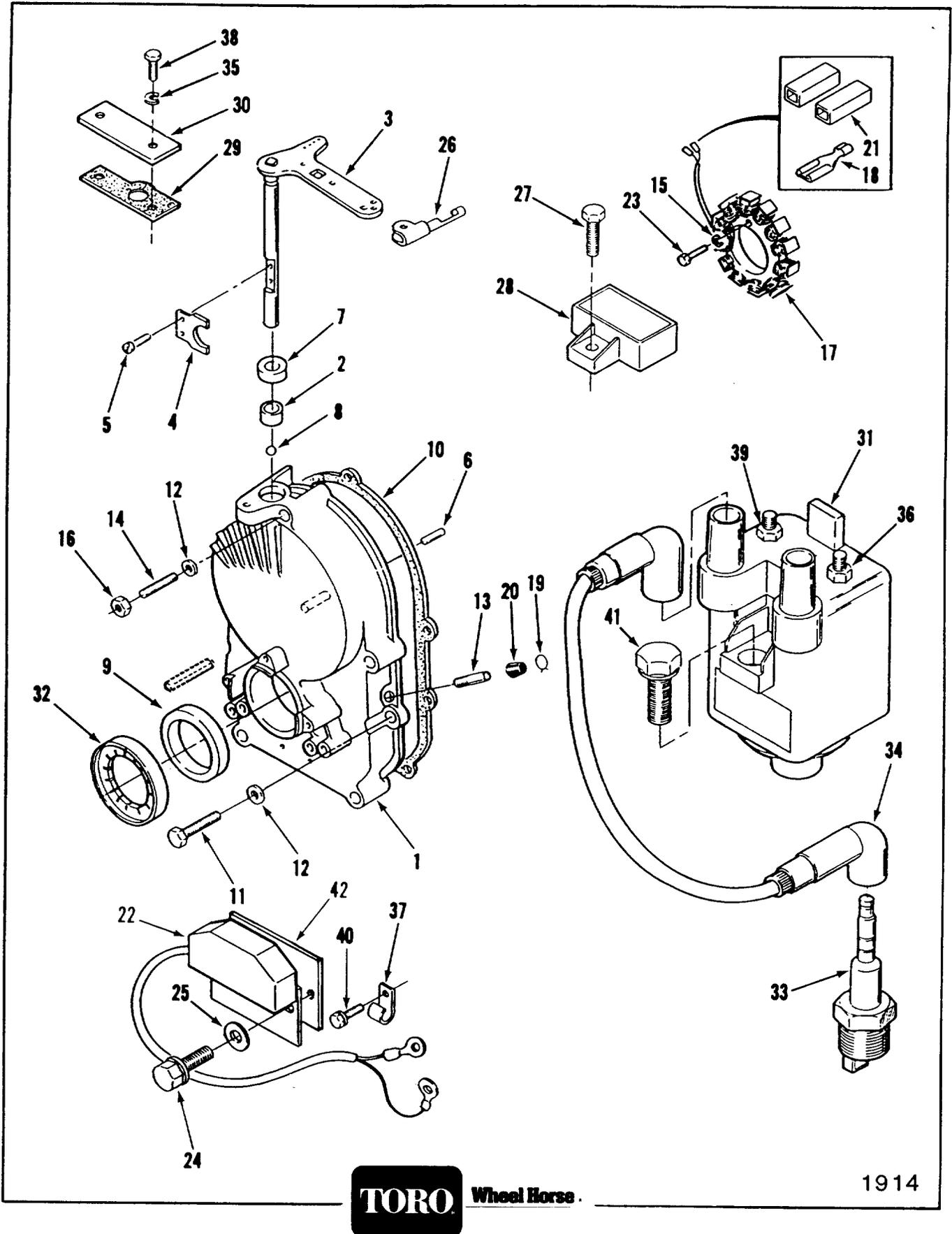
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SECTION 9 - TORO POWER PLUS OIL FILTER

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 9-17 OIL FILTER	
1	NN10141	Oil Filter Adapter	1
2	57-9750	Washer 5/16.....	2
3	NN10373	Screw 5/16-18 x 1	2
4	NN10894	Oil Filter Drain	1
5	NN10391	Screw #10-32 x 3/8	2
6	NN10455	Gasket	1
7	NN10143	Oil Filter	1
8	NN10465	Wrench	1
9	NN10823	Gasket	1
10	NN10520	Oil Pressure Switch.....	1
11	59-0640	Elbow 45°	1

SECTION 9 - TORO POWER PLUS GEARCASE AND IGNITION CONTROLS



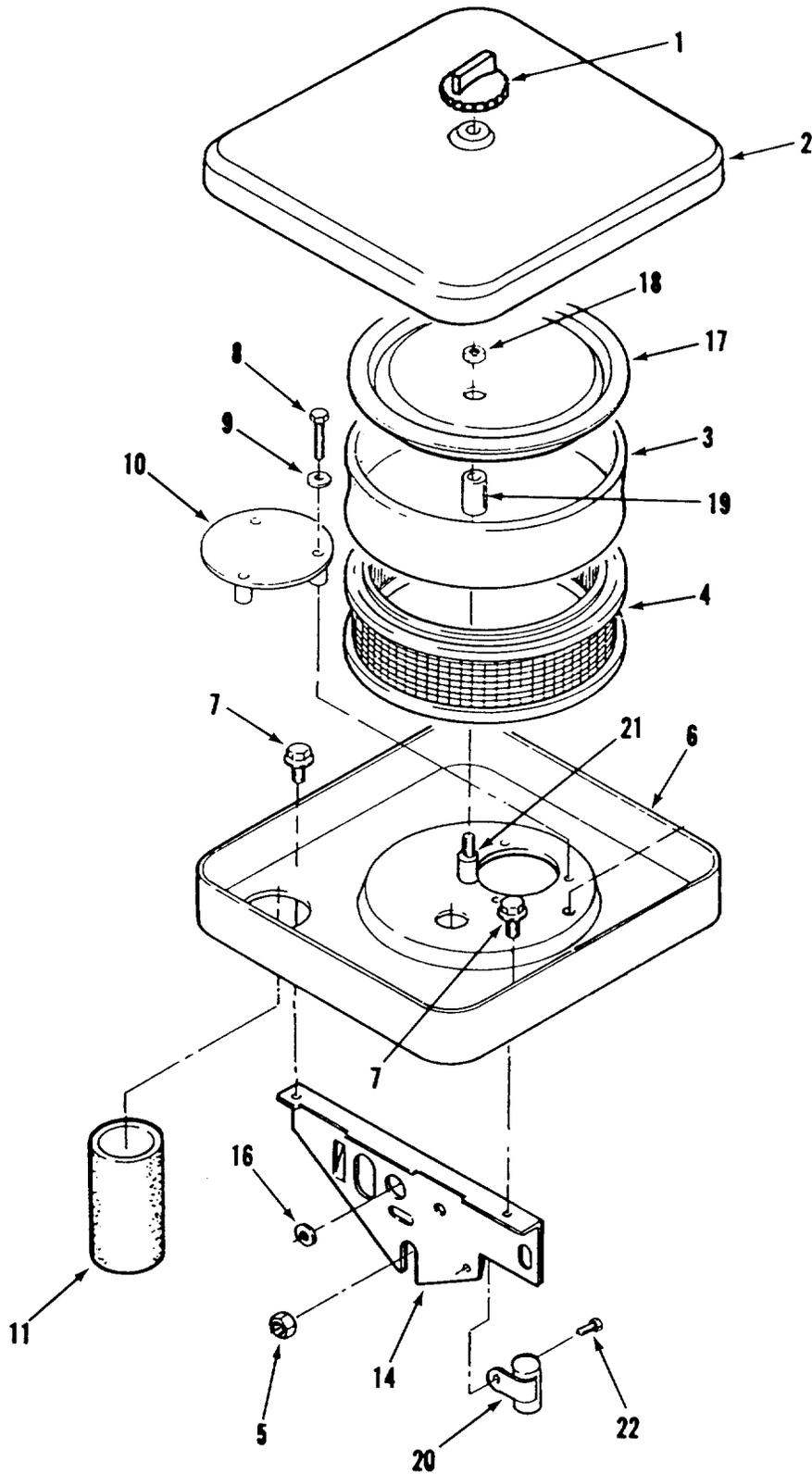
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FIGURE 9-18 TORO POWER PLUS GEARCASE AND IGNITION CONTROLS

SECTION 9 - TORO POWER PLUS GEARCASE AND IGNITION CONTROLS

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-18 GEARCASE AND IGNITION CONTROLS			
1	NN10825	Gearcase Kit (Includes Items 2 thru 9, 13, 19 & 20)	1
2	57-9650	Bearing	1
3	NN10826	Governor Shaft and Arm-Chromed	1
4	59-0420	Yoke	1
5	59-0950	Screw #8-32 x 3/8	1
6	NN10335	Dowel Pin	1
7	57-9570	Oil Seal	1
8	57-9630	Bearing	1
9	57-9580	Oil Seal	1
10	NN10895	Gasket	1
11	NN10374	Screw 5/16-18 1-3/4	4
12	57-9750	Washer 5/16	5
13	59-0360	Vacuum Port Tube	1
14	NN10352	Gear Cover Stud	1
15	3253-2	Lockwasher #10	3
16	NN10426	Nut 5/6-18	1
17	57-9440	Stator w/Terminals	1
18	NN10290	Stator Leads Terminal	3
19	57-9550	Clamp	1
20	59-0370	Cap	1
21	NN10280	Terminal Connector Body Kit (Includes Terminals)	1
22	NN10444	Ignition Control	1
23	NN10389	Screw Hex Hd. #10-32 x 1	3
24	NN10394	Screw Hex Hd. #10-32 x 3/8	2
25	NN10424	Lockwasher IT #10	2
26	57-9730	Retaining Clip	1
27	NN10414	Screw Hex Hd. 1/4-20 x 5/16	1
28	NN10794	Voltage Regulator-20 amp	1
29	NN10243	Plate Gasket	1
30	NN10515	Ignition Plunger Cover	1
31	NN10245	Battery Ignition Coil w/Nuts	1
32	NN10247	Ignition Rotor	1
33	57-9340	Spark Plug	2
34	57-9350	Spark Plug Cable 18" Long	1
35	NN10663	Washer - Flat (M6)	2
36	NN10248	Nut	1
37	NN10348	Wire Clip	1
38	NN10368	Screw Hex Hd. 1/4-20 x 5/8	1
39	NN10249	Nut	1
40	NN10396	Screw Hex Hd. 1/4-20 x 1	1
41	NN10408	Screw Hex Hd. 1/4-20 x 1	2
42	NN10516	Ignition Module Indicator	1

SECTION 9 - TORO POWER PLUS AIR CLEANER



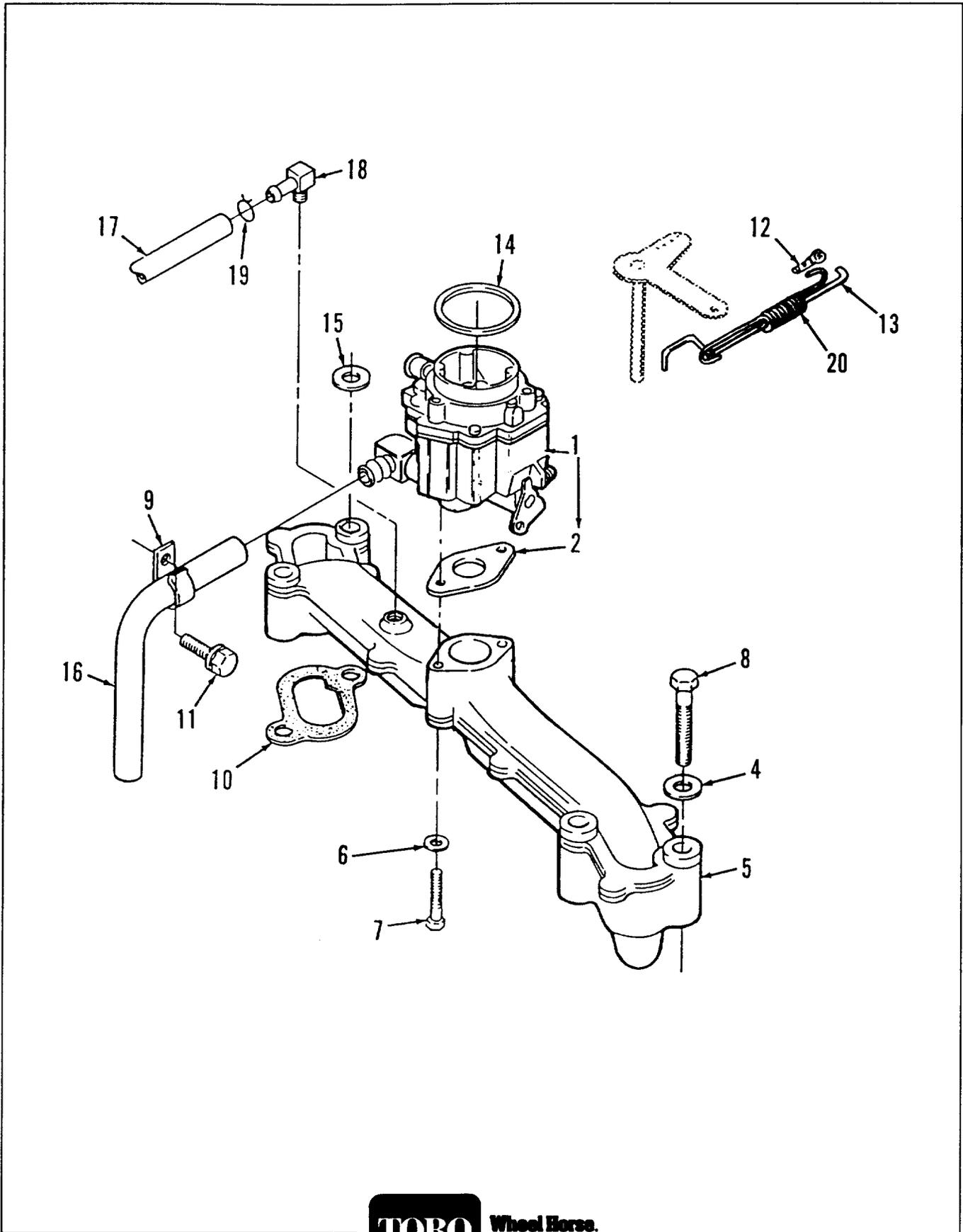
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SECTION 9 - TORO POWER PLUS AIR CLEANER

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 9-19 AIR CLEANER	
1	79-6350	Knob - Toolless.....	1
2	79-6320	Air Cleaner Cover.....	1
3	NN10176	Foam Element.....	1
4	NN10174	Air Cleaner Element.....	1
5	NN10430	Flange Nut 5/16-18.....	1
6	79-6330	Air Cleaner Housing.....	1
7	NN10406	Screw Hex Hd. 1/4-20 x 3/8.....	2
8	NN10398	Screw Hex Hd. #10-32 x 1-1/2.....	3
9	NN10365	Flat Washer #10.....	3
10	NN10193	Air Deflector Plate.....	1
11	NN10187	Air Intake Tube.....	1
14	79-6340	Air Cleaner Support.....	1
16	NN10309	Grommet - 3/4" Hole.....	1
17	NN10177	Element Cover.....	1
18	NN10429	Hex Nut 1/4-20.....	1
19	NN10272	Spacer.....	1
20	NN10276	Capacitor (300 VD).....	1
22	NN10390	Screw Hex Hd. #10-32 x 5/8.....	1

SECTION 9 - TORO POWER PLUS INTAKE MANIFOLD



SECTION 9 - TORO POWER PLUS INTAKE MANIFOLD

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 9-20 INTAKE MANIFOLD	
1	NN10504	Carburetor (Includes Mounting Gasket, Elbow and "O" Ring) See section 9-17 for complete carburetor breakdown	1
2	57-9200	Gasket	1
4	NN10543	Washer Flat	4
5	NN10242	Intake Manifold	1
6	NN10543	Washer Flat	2
7	NN10374	Screw Hex Hd. 1/4-20 x 1-3/8.....	2
8	NN10375	Screw Hex Hd.	4
9	NN10362	Clip - Fuel Line	1
10	NN10904	Gasket	2
11	NN10399	Screw 1/4-14 x 1/2	2
12	57-9700	Retaining Clip Rod to Carburetor	1
13	NN10897	Governor Control Rod.....	1
14	57-9620	"O" Ring.....	1
15	NN10362	Flat Washer 5/16.....	1
16	NN10857	Hose - Fuel.....	1
20	NN10877	Spring - Governor Rod.....	1

SECTION 9 - TORO POWER PLUS CARBURETOR COMPONENTS

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-21 CARBURETOR COMPONENTS			
1	NN10209	Float Kit (Includes Float, Pin and Valve)	X
2	NN10807	Repair Kit (Includes Screw and Plug Package, Gasket Package, Float Valve, Idle Adjustment Needle and Spring, Mounting Gaskets, Idle Limit Cap)	X
3	57-9200	Gasket, Carburetor Mounting Jet (Power-Fixed Optional High Altitude)	1
4	NN10810	Fixed Jet Kit.....	X
5	NN10201	Idle Jet	1
6	NN10199	Power Jet.....	1
7	NN10207	Choke Shaft Kit (Includes Choke Valve, Valve Set Screw and Air Filter)	1
8	NN10809	Choke Lever Kit (Include Choke Lever Ring, Choke Spring and Choke Collar)	1
9	NN10811	Throttle Shaft Kit (Includes Valve Set Screw, Air Filter and Throttle Valve)	1
11	NN10808	Solenoid - Fuel Cutoff	1

SECTION 9 - TORO POWER PLUS BLOWER HOUSING AND GOVERNOR

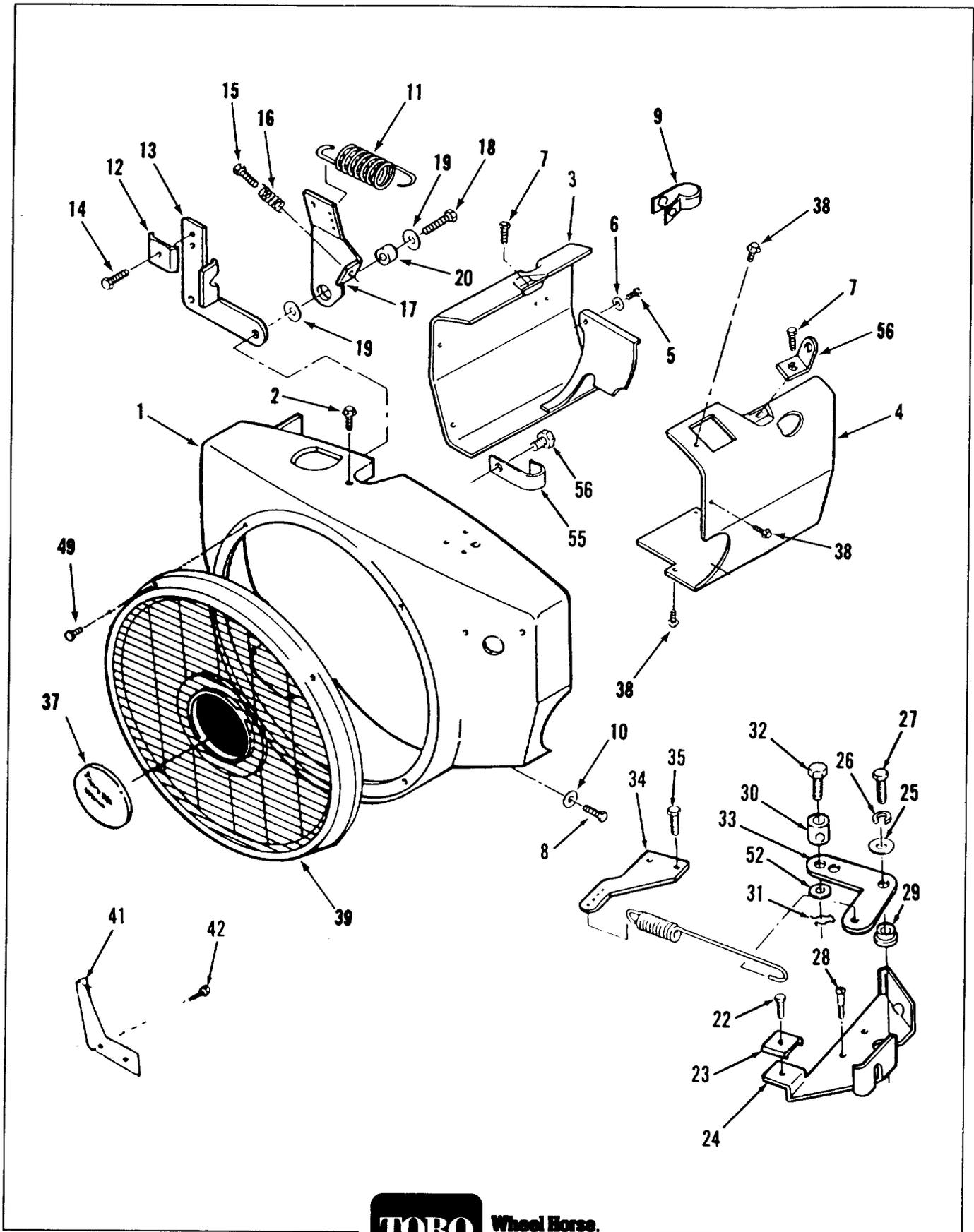
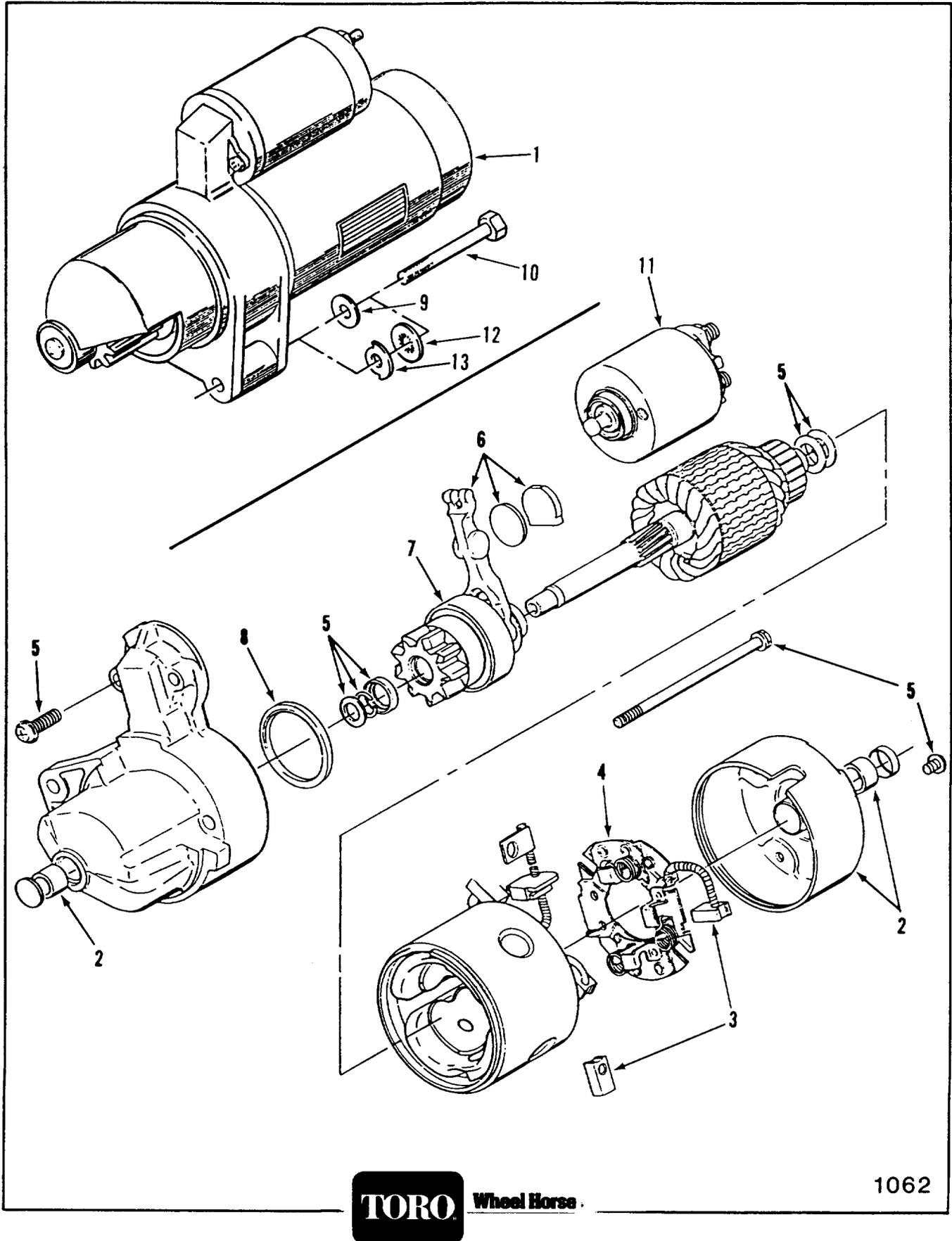


FIGURE 9-22 TORO POWER PLUS BLOWER HOUSING AND GOVERNOR

SECTION 9 - TORO POWER PLUS BLOWER HOUSING AND GOVERNOR

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 9-22 BLOWER HOUSING AND GOVERNOR			
1	NN10769	Blower Housing.....	1
2	59-0970	Screw 1/4-20 x 7/16.....	1
3	NN10170	Cylinder Air Housing LH.....	1
4	NN10169	Cylinder Air Housing RH.....	1
5	59-0980	Screw 1/4-20 x 5/8.....	1
6	NN10348	Clamp.....	1
7	NN10417	Screw 5/16-18 x 3/4.....	2
8	NN10393	Screw 1/4-20 x 5/8.....	4
9	NN10289	Clamp.....	1
10	59-0820	Flat Washer 1/4.....	1
11	57-9100	Governor Spring - 5 Ball.....	1
13	79-6360	Bracket.....	1
14	NN10784	Screw #10-32 x 1/2.....	1
15	59-1030	Screw #6-32 x 5/8.....	1
16	59-0430	Spring.....	1
17	79-6370	Governor Control Arm w/o Swivel.....	1
18	59-1100	Screw 1/4-20 x 1/2.....	2
19	59-0830	Flat Washer 1/4.....	1
20	57-9120	Bushing.....	1
22	59-1000	Screw 10-32 x 1/2.....	1
23	57-9190	Clamp - Throttle Cable.....	1
24	79-6390	Bracket - Governor Control.....	1
25	59-0830	Washer - Flat 1/4.....	1
26	NN10419	Washer - Lock.....	1
27	NN10369	Screw 1/4-20 x 1.....	1
28	201327	Screw.....	3
29	79-6400	Bushing - Governor Control.....	1
30	57-9190	Swivel - Throttle Control.....	1
31	59-0720	Pin - Cotter.....	1
32	NN10410	Screw - Machine.....	1
33	79-6410	Link - Governor Control.....	1
34	79-6420	Adapter - Governor Arm.....	1
35	59-1050	Screw 10-32 x 1/2.....	2
37	59-1080	Black Nylon Bushing.....	1
38	NN10414	Screw 1/4-20 x 5/16.....	4
39	79-6380	Stationary Guard.....	1
41	NN10832	Bracket.....	1
42	59-1100	Screw 1/4-20 x 1/2.....	2
49	NN10406	Screw 1/4-20 x 3/8.....	4
55	NN10348	Clip - Wire.....	1
56	NN10296	Lifting Bracket.....	2

SECTION 9 - TORO POWER PLUS STARTER

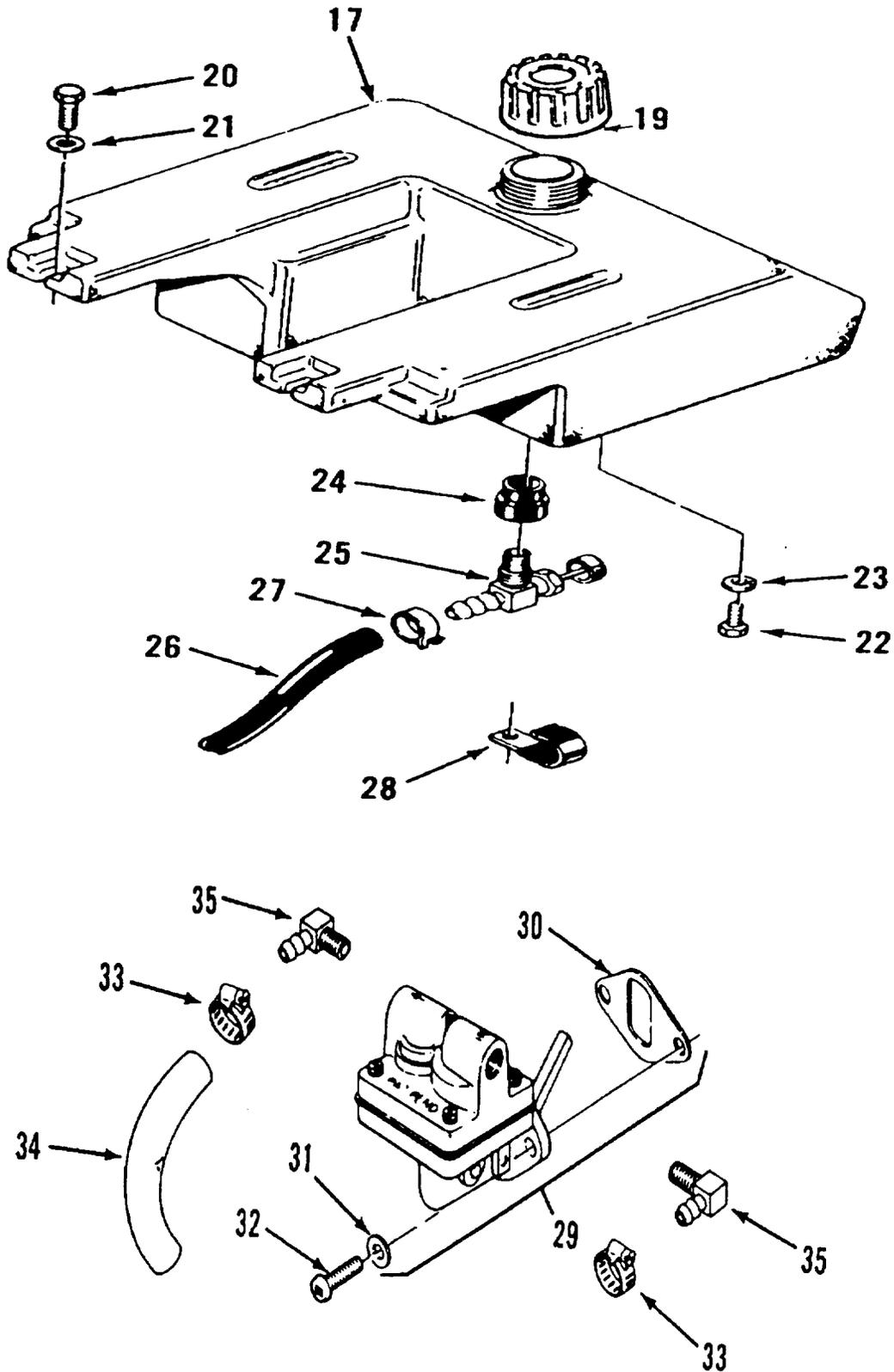


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SECTION 9 - TORO POWER PLUS STARTER

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 9-23 STARTER	
1	NN10268	Starter, Complete - See Components Below	1
2	NN10262	Bushing Kit (Includes Frt Bushing and Rear Cap w/Bushing)	1
3	NN10263	Starter Brush Kit (Includes Positive Brush [2] and Negative Brush w/Pigtail)	1
4	NN10264	Starter Brush Holder (Includes Brush Holder w/Negative Brush)	1
5	NN10265	Starter Hdwr Kit (Includes Solenoid Screws [2], Brush Holder Screws [2], Thru Bolts [2], Armature Shims [2], Pinion Stop Collar, and Pinion Retaining Ring)	1
6	NN10266	Starter Shift Lever Kit (Includes Shift Lever, Wear Plate and Rubber Plug)	1
7	NN10270	Starter Clutch (Includes Pinion Gear w/Clutch)	1
8	NN10271	Dust Seal	1
9	57-9770	Flat Washer 5/16	2
10	NN10376	Cap Screw 5/16-18 x 3-1/2	2
11	NN10269	Starter Solenoid Kit (Includes Solenoid, Spring and Plunger)	1
12	NN10833	Washer - Lock 5/16 Int. Tooth	1
13	NN10834	Washer - Special	1

SECTION 10 - KOHLER ENGINE FUEL SYSTEM



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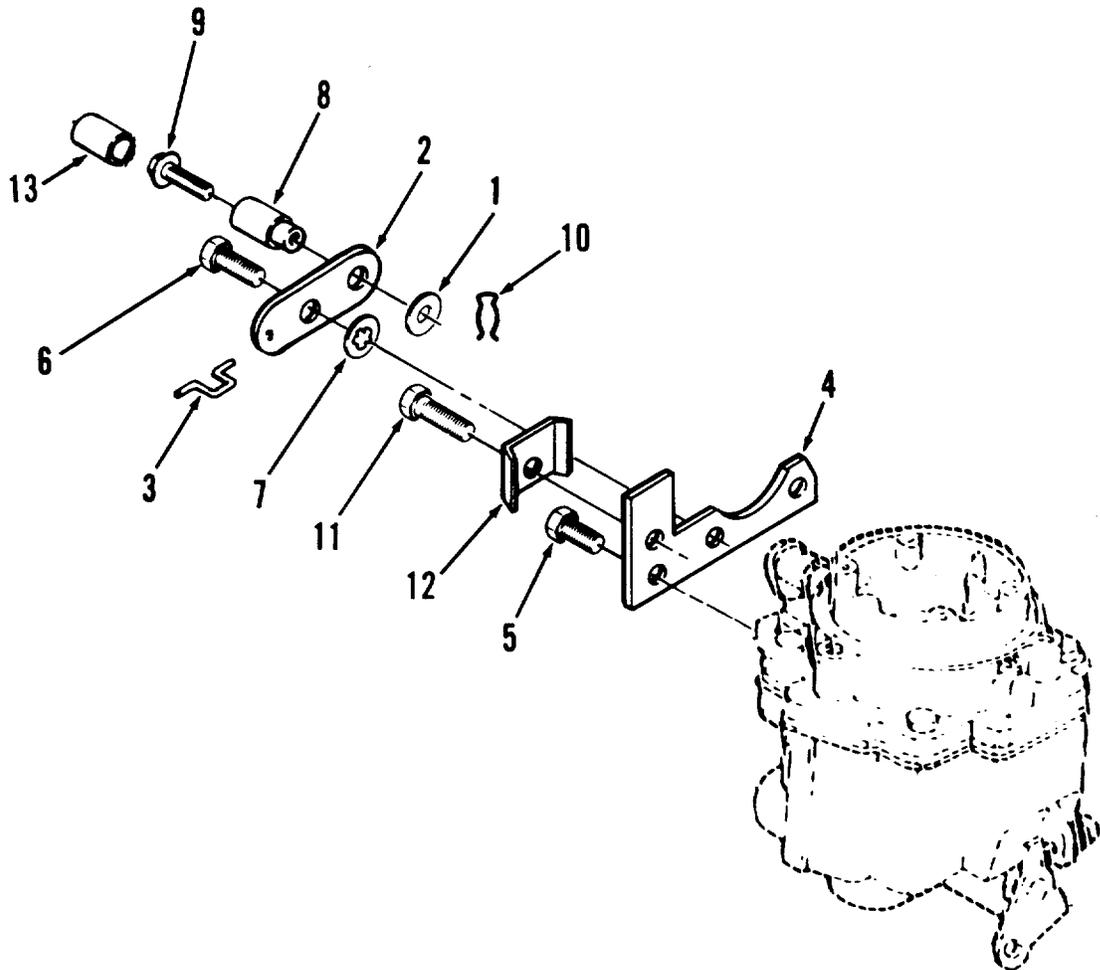
SECTION 10 - KOHLER ENGINE FUEL SYSTEM

ITEM	TORO WHEEL HORSE PART NO.	VENDOR PART NUMBER	DESCRIPTION	Quantity
Figure 10-1 KOHLER FUEL SYSTEM				
17	106234	-----	Fuel Tank	1
18	55-3570	-----	Fuel Cap & Gauge	1
20	926697	-----	Bolt 5/16-18 x1	2
21	920039	-----	Washer 3/8	2
22	908016	-----	Bolt 5/16-18 x 5/8	3
23	920082	-----	Lockwasher 5/16	1
24	104047	-----	Bushing	1
25	104048	-----	Fuel Shut-Off Valve	1
26	103787	-----	Fuel Line 62"	1
27	108898	-----	Clamp	2
28	950154	-----	Clamp 1/2" (1.3 cm) Dia.	2
	105490	-----	Clamp 1" (2.5 cm) Diameter	1
29	KH10747	47 559 04	Fuel Pump Assy (Includes Items 30 & 31)	1
30	KH10095	25 041 05	Gasket	1
31	KH10549	X-25-63	Washer 1/4	2
32	KH10552	X-174-2	Screw Pozidrive 1/4-20 x 3/4	2
33	KH10586	X-426-9	Clamp	2
34	KH10130	25 353 01	Fuel Line 1/4 I.D. x 5-1/2" Lg.	1
35	KH10123	25 155 02	Connector 90° (For 1/4 I.D. Rubber Hose)	2

SECTION 10 - KOHLER THROTTLE, CHOKE & EXHAUST SYSTEM

ITEM	Part NUMBER	DESCRIPTION	Quantity
		Figure 10-2 THROTTLE CHOKE & EXHAUST	
1	115854	Throttle Control	1
2	116454	Knob-Throttle Control	1
3	112214	Choke Control	1
4	109530	Palnut	1
5	9107922	Screw #10-24 x 1/2 Black	2
6	915740	Lock Nut #10-24	2
7	112213	Muffler	1
8	106858	Clamp	1
9	6876	Spacer.....	1
10	KH10344	Cable Clamp (vendor #48 154 01)	1
11	KH10610	Screw Hex Hd. 1/4-20 x 7/16 310,312 (vendor #X-67-83)	1
12	908020	Bolt 5/16-18 x 1-1/4	1
13	920082	Washer 5/16	1
14	920008	Washer 5/16	1
15	KH10535	Locknut (vendor #AC-1536)	1
16	KH10278	Elbow (vendor #47 054 01)	1
17	KH10570	Washer 1/4 (vendor #X-25-72)	1

SECTION 10 - TORO POWER PLUS CHOKE LINKAGE

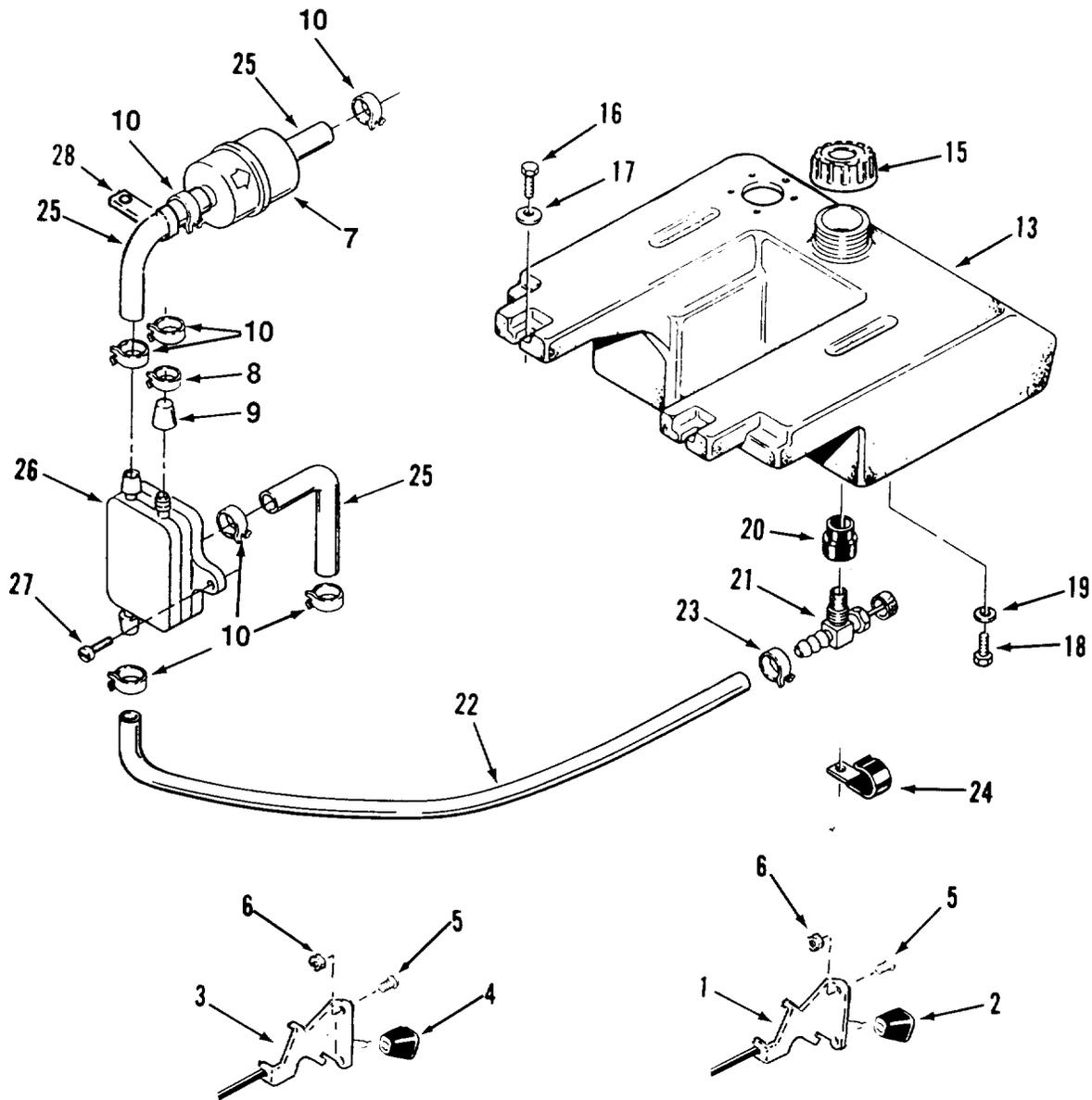


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SECTION 10 - TORO POWER PLUS CHOKE LINKAGE

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
		Figure 10-3 CHOKE LINKAGE	
1	59-0850	Washer #10.....	2
2	59-0460	Choke Lever.....	1
3	57-9180	Choke Link.....	1
4	59-0470	Bracket.....	1
5	NN10412	Screw #10-32 x 1-1/4.....	1
6	59-1020	Screw #10-32 x .34.....	1
7	NN10424	Lockwasher IT #10.....	1
8	57-9170	Choke Lever Swivel.....	1
9	NN10410	Screw #8-32 x .375.....	1
10	59-0720	Cotter Pin.....	1
11	NN10784	Screw #10-32 x 7/8.....	1
12	57-9190	Clip.....	1
13	NN10830	Plug.....	1

SECTION 10 - TORO POWER PLUS THROTTLE CHOKE AND FUEL CONTROLS



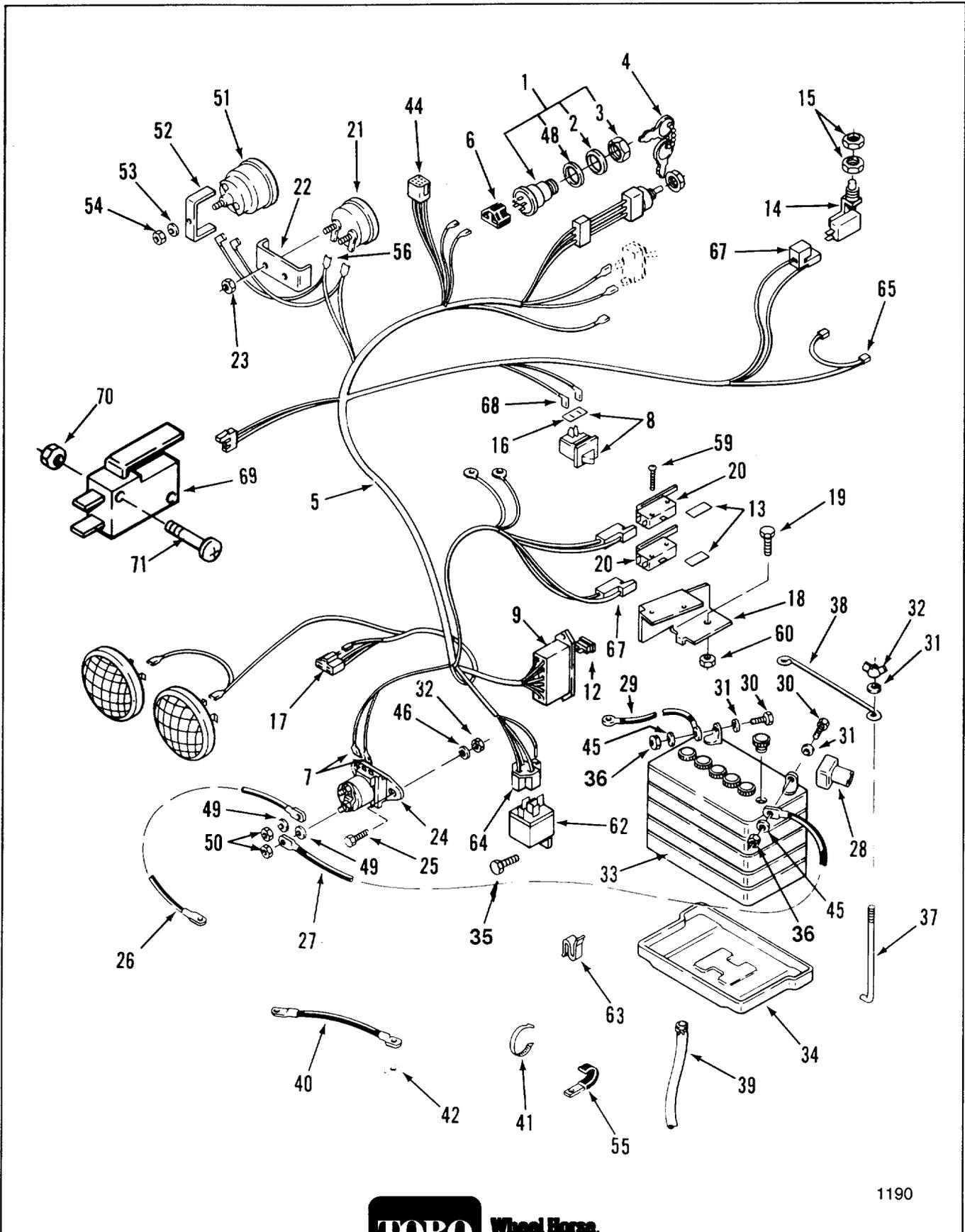
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FIGURE 10-4 TORO POWER PLUS THROTTLE CHOKE AND FUEL CONTROLS

SECTION 10 - TORO POWER PLUS THROTTLE CHOKE AND FUEL CONTROLS

TORO WHEEL HORSE			Quantity
ITEM	PART NO.	DESCRIPTION	
Figure 10-4 THROTTLE CHOKE AND FUEL CONTROLS			
1	115392	Throttle Control	1
2	116454	Knob - Throttle Control.....	1
3	114951	Choke Control	1
4	109530	Palnut.....	1
5	910792	Screw #10-24 x 1/2.....	4
6	915740	Lock Nut #10-24.....	4
7	NN10466	Fuel Filter.....	1
8	57-9550	Hose Clamp 7/16	1
9	59-0370	Fuel Fitting Cap.....	1
10	NN10789	Hose Clamp 1/2	7
13	106234	Fuel Tank (Includes items 20 & 21).....	1
14	55-3570	Fuel Cap.....	1
16	926697	ST Bolt 5/16-18 x 1	2
17	920039	Washer 3/8.....	2
18	908016	Bolt 5/16-18 x 5/8.....	3
19	920082	Lockwasher 5/16.....	2
20	104047	Bushing	1
21	104048	Fuel Shut-Off Valve.....	1
22	2739	Fuel Line 53 in.....	1
23	108898	Clamp	2
24	950154	Clamp 1/2" (13 cm) Diameter	2
	105490	Clamp 1" (2.5 cm) Diameter	1
25	NN10302	Fuel Line 12"	3
26	57-9080	Fuel Pump.....	1
27	59-1050	Screw #10-24 x 5/8.....	2
28	NN10348	Wire Clip.....	1

SECTION 11 - ELECTRICAL SYSTEM



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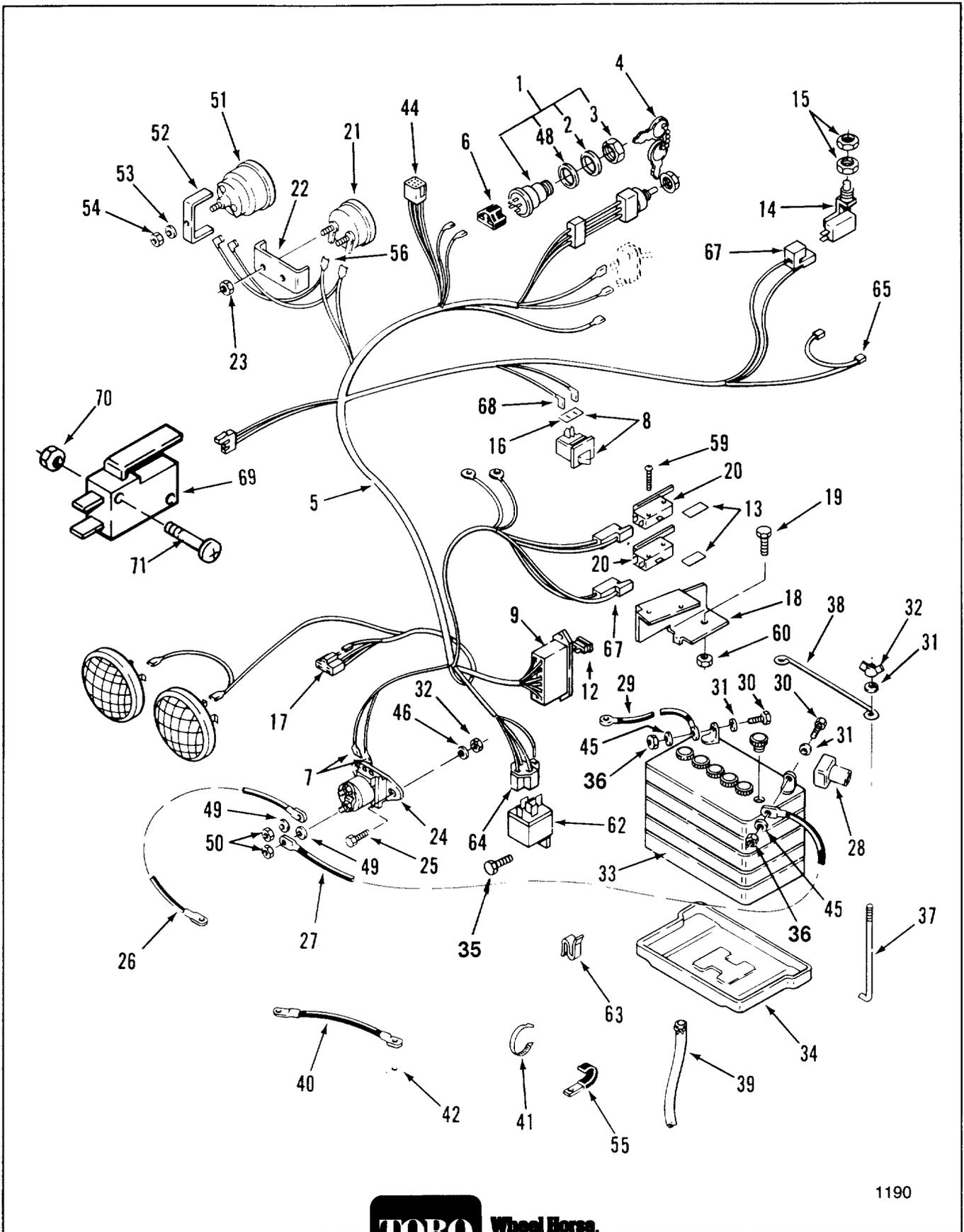


FIGURE 11-1 ELECTRICAL SYSTEM

SECTION 11 - ELECTRICAL SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 11-1 ELECTRICAL SYSTEM	
1	111215	Ignition Switch (w/101884 & 920160) 310-8,312-8,312-H	1
	111216	Ignition Switch (w/101884 & 920160) 416's	1
2	920160	Internal Tooth Lockwasher 5/8	1
3	101884	Special Nut	1
4	111220	Ignition Key Set of 2	1
	116738	Padded Ignition Key Set of 2	1
5	78-6300	Wiring Harness Assembly 310-8	1
*	78-6320	Wiring Harness Assembly 416-8	1
*	78-6310	Wiring Harness Assembly 312-8	1
*	78-7020	Wiring Harness Assembly 312-H	1
*	78-7330	Wiring Harness Assembly 416-H	1
6	104926	Connector Body Ignition Switch Part of 5	1
7	518105	Terminal Part of 5	1
8	103480	Clutch Interlock Switch w/Item 16 310-8,312-8,416-8	1
*	115230	Clutch Interlock Switch w/Item 16 312-H,416-H	1
9	120930	Fuse Body Part of 5	1
12	109355	Fuse 15 Amp ATO or ATC	1
	109102	Fuse 25 Amp ATO or ATC	1
	NN10277	Fuse 30 Amp ATO or ATC	1
13	111642	Switch Insulator Barrier	2
14	114240	Seat Switch	1
15	105805	Nut 15/32-32	2
16	110502	Dirt Shield	1
17	112185	Connector Body Part of 5	1
18	115411	Switch Support	1
19	926671	ST Bolt 1/4-20 x 1/2	1
20	111332	PTO Interlock Switch	2
21	79-0060	Voltmeter	1
22	78-0080	Back Clamp-Voltmeter	1
23	5924	Nut #10-32 E.S.	2
24	110167	Solenoid 310-8,312-8,312-H	1
25	960152	Whizlock Bolt 1/4-20 x 5/8 310-8,312-8,312-H	2
26	111069	Cable Solenoid To Starter 310-8,312-8,312-H	1
27	111074	Cable Battery (+) To Solenoid 310-8,312-8,312-H	1
28	109553	Terminal Cover	1
29	111069	Cable Battery (-) To Ground 310-8,312-8,312-H	1
30	908003	Bolt 1/4-20 x 3/4	2
31	920007	Washer 1/4 SAE	4
32	116497	Eslok Nut 1/4-20	4
33	105842	Battery 312-H,416-8	1
	104962	Battery 310-8,312-8	1
	115877	Battery 416-H	1
34	106948	Battery Tray	1
	910794	Screw #10-24 x 3/4	1
	915114	Nut 1/4-20	2

SECTION 11 - ELECTRICAL SYSTEM



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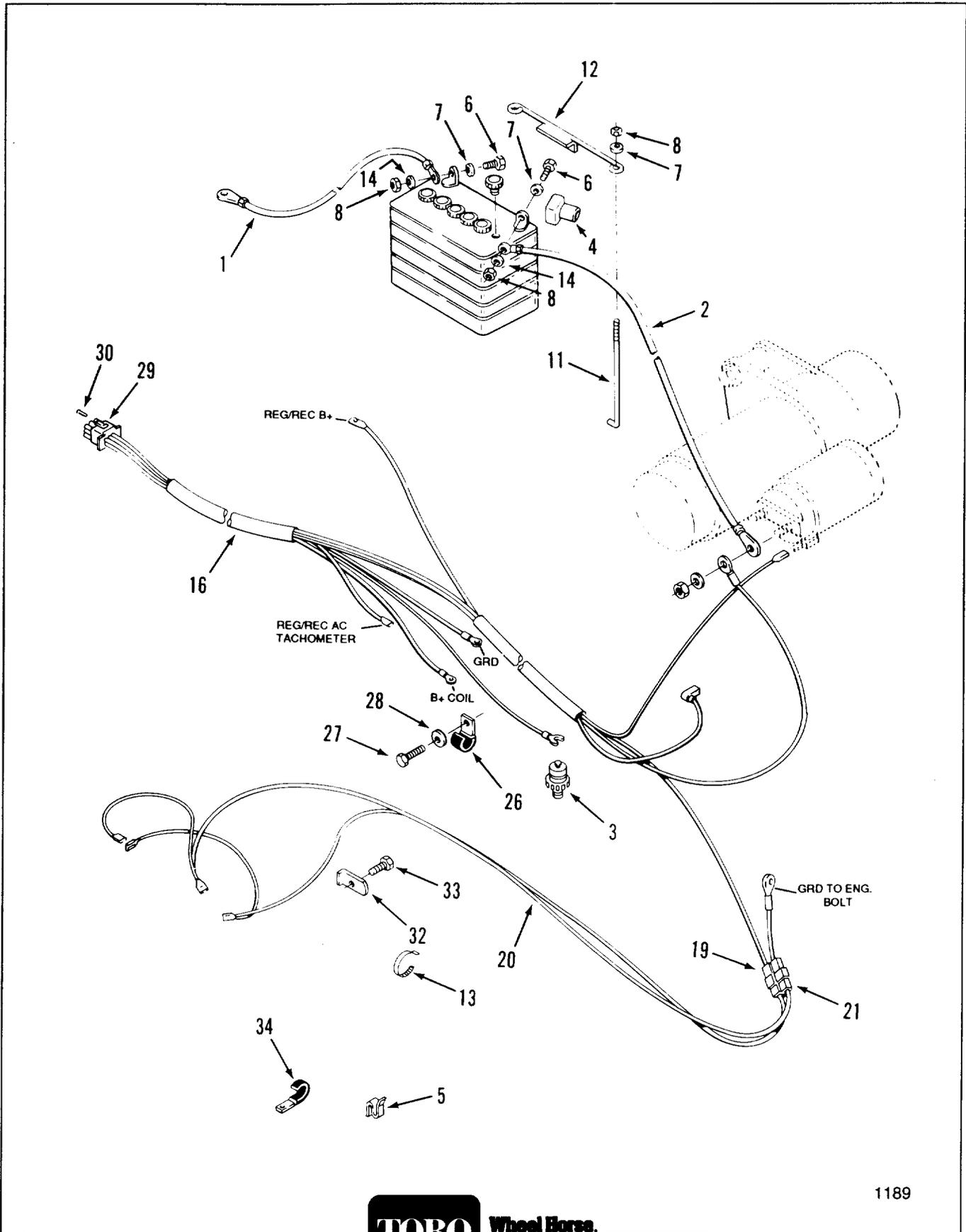


FIGURE 11-1 ELECTRICAL SYSTEM

SECTION 11 - ELECTRICAL SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 11-1 ELECTRICAL SYSTEM (CONTINUED)			
37	113969	Hook Battery Hold Down	2
38	113010	Battery Hold Down	1
39	114720	Drain Tube	1
40	109910	Ground Cable - Hood to Frame 310-8,312-8,312-H	1
41	100571	Cable Tie	1
42	920155	Internal Tooth Lockwasher 5/16	1
44	102651	Female Terminal 1/4 Part of 5	8
45	920081	Lockwasher 1/4	4
48	920262	Special Washer	1
49	920081	Lockwasher 1/4	2
50	915234	Jam Nut 1/4-20	2
51	78-0020	Hour Meter Complete (Includes Items 52-54) 312-8, 312-H, 416-8 & 416-H	1
52	114017	Steel Clamp	1
53	920120	Lockwasher	1
54	915962	Hex Nut	1
55	8830	Clip	X
59	910478	Screw #4-40 x 1 1/4	2
60	915732	E.S. Nut #4-40	2
62	116397	Relay	1
63	519337	Cable Clip	1
64	518105	Terminal Part of 5	X
65	6921	Shur Plug Terminal Part of 5	1
67	111498	Connector Part of 5	2
68	518077	Terminal Part of 5	2
69	111332	Parking Brake Switch 312-H,416-8,416-H	1
70	915732	E.S. Hex Nut #4-40 312-8,312-H,416-8,416-H	2
71	910948	Screw #4-40 x 3/4 312-8,312-H,416-8,416-H	2

SECTION 11 - ELECTRICAL SYSTEM



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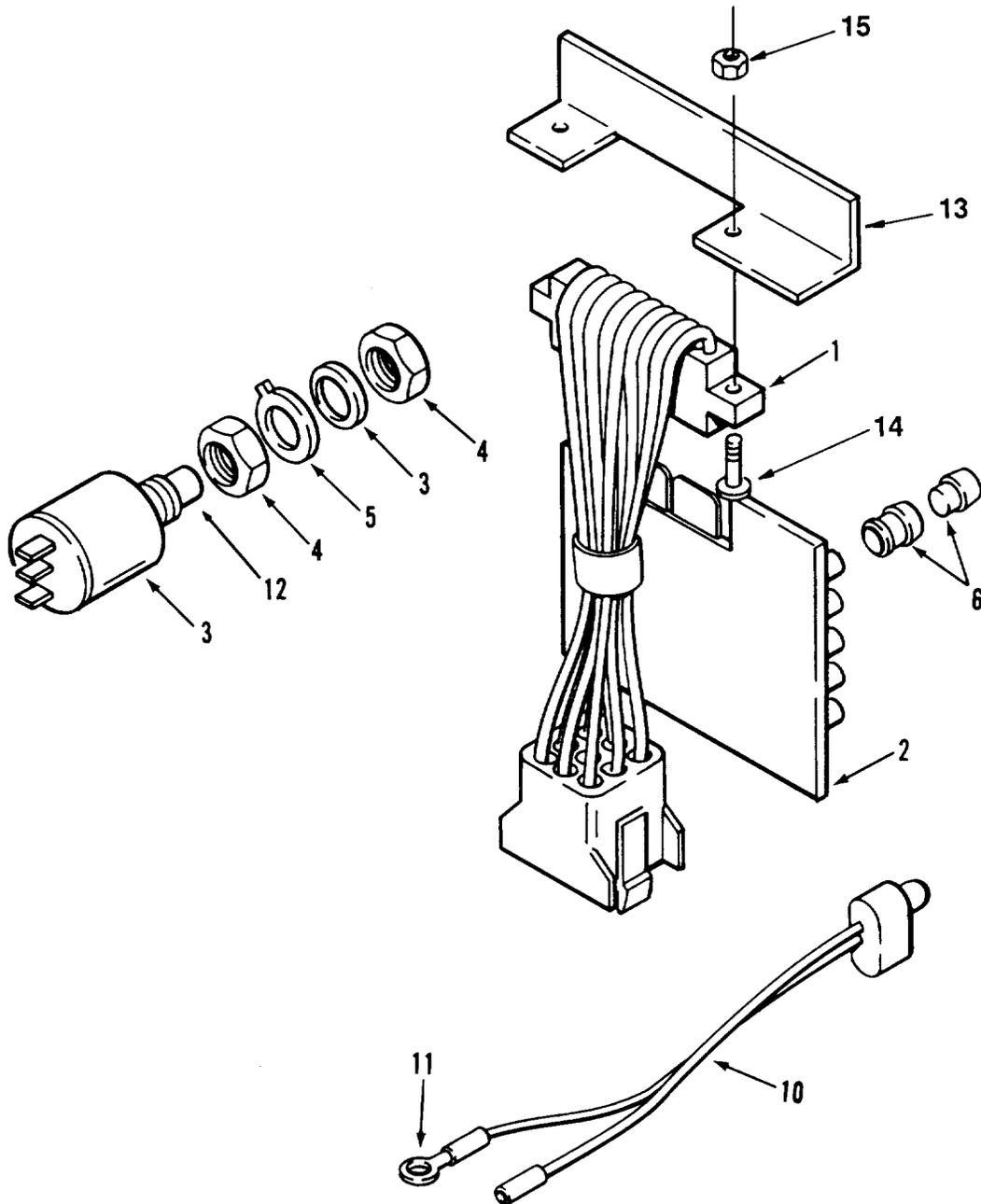


FIGURE 11-2 ELECTRICAL SYSTEM

SECTION 11 - ELECTRICAL SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 11-2 ELECTRICAL SYSTEM - 416 ONLY	
1	114210	Cable-Battery Ground (24")	1
2	113825	Cable-Battery (+) to Solenoid (40").....	1
3	NN10824	Low Oil Pressure Switch	1
4	109553	Terminal Cover	2
5	3023	Clip Small	X
6	908003	Bolt 1/4-20 x 3/4.....	2
7	920007	Washer 1/4 SAE	4
8	116497	Eslok Nut 1/4-20	6
11	113969	Hook-Battery Hold Down	2
12	113010	Battery Hold Down Rod	1
13	100571	Cable Tie	X
16	NN10294	Engine Wiring Harness	1
19	NN10278	2-Terminal Connector - Male	1
20	114052	Headlight Harness	1
21	109357	2-Terminal Connector - Female	1
26	NN10348	Clip	1
27	NN10399	Screw 1/4-10 x 1/2.....	1
28	NN10425	Internal Tooth Washer 1/4	1
29	NN10281	9-Terminal Connector-Male	1
30	NN10279	Socket Contact	1
32	109459	Clamp	2
33	926671	Bolt Hex 1/4-20 x 1/2 ST	2
34	8830	Clip	1

SECTION 11 - ELECTRICAL SYSTEM



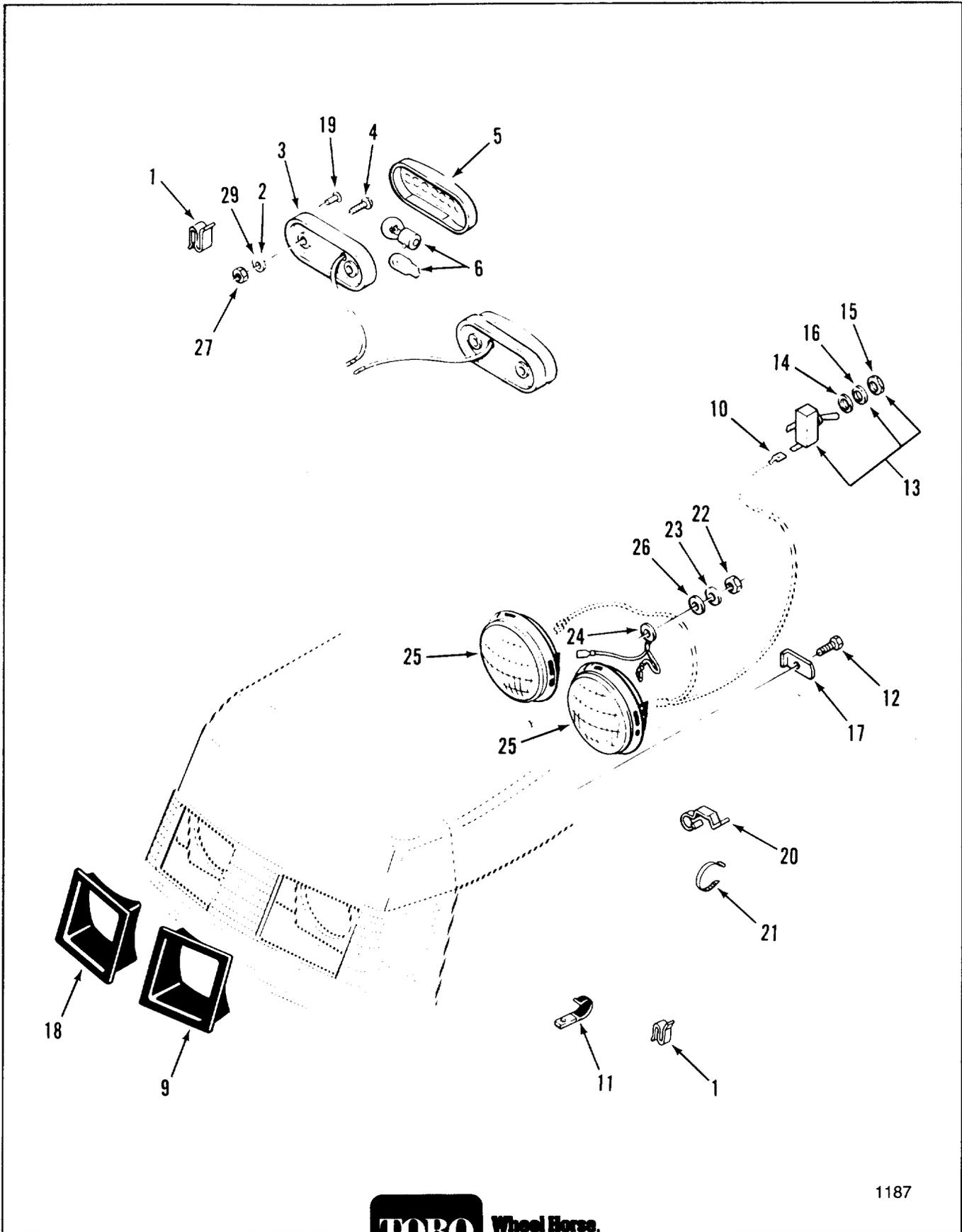
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FIGURE 11-3 ELECTRICAL SYSTEM

SECTION 11 - ELECTRICAL SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 11-3 ELECTRICAL SYSTEM	
1	116723	Wiring Harness 312-8,312-H	1
	117377	Wiring Harness 416-8,416-H	1
2	114825	PC Board W/Lights (Not used on 310-8)	1
3	116796	Test Switch (Not used on 310-8).....	1
4	111359	Hex Nut (Not used on 310-8)	2
5	111767	Washer (Not used on 310-8).....	1
6	111343	Indicator Lens & Bushing Assy (Not used on 310-8)	5
10	117185	Indicator Light 310-8	1
11	111351	Indicator Light Wiring Harness 310-8	1
12	117217	Button Switch (Not used on 310-8)	1
13	112506	Bracket (Not used on 310-8)	1
14	910756	Screw #4-40 x 1/2	2
15	915732	Nut #4-40	2

SECTION 11 - ELECTRICAL SYSTEM



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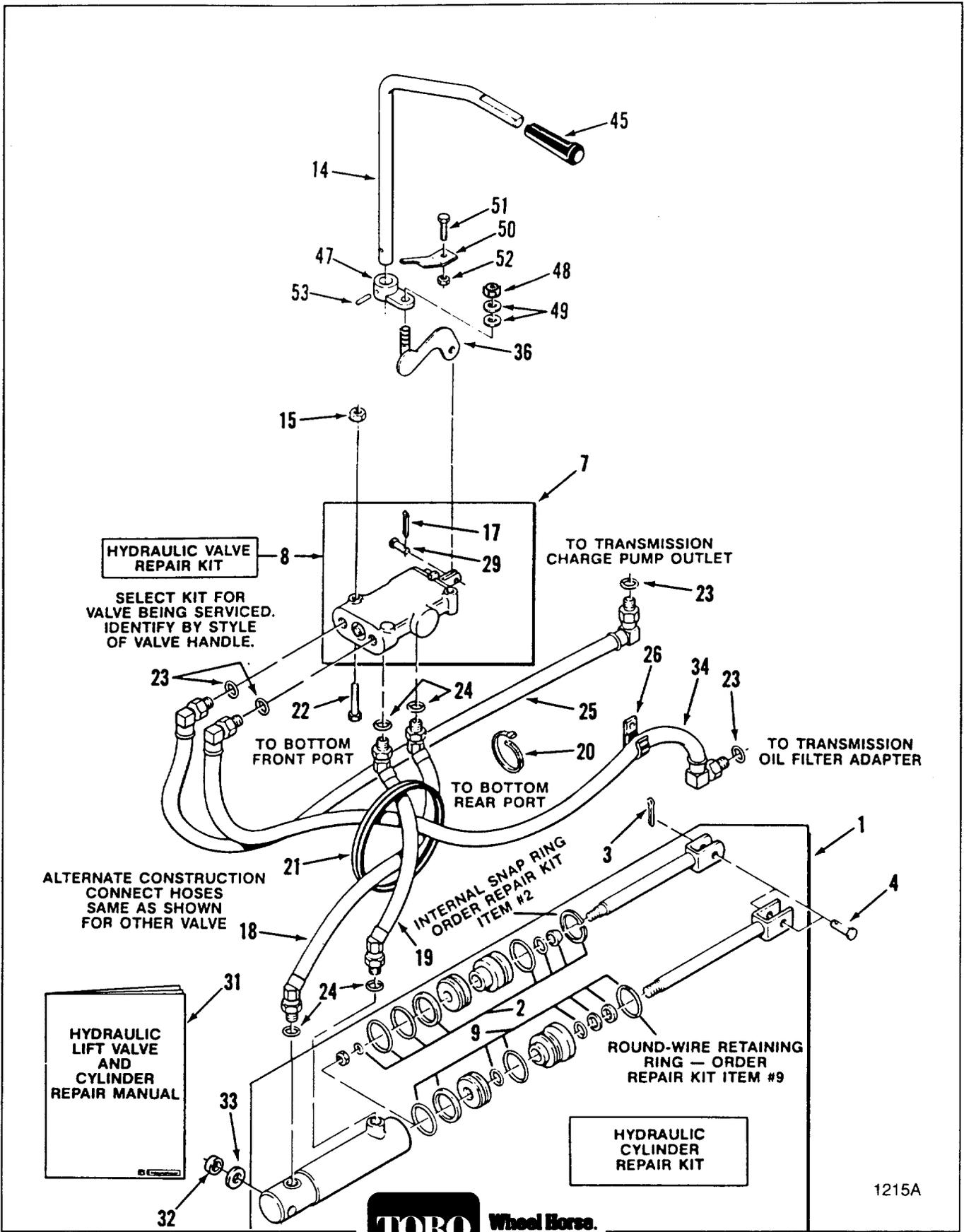


FIGURE 11-4 ELECTRICAL SYSTEM

SECTION 11 - ELECTRICAL SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 11-4 ELECTRICAL SYSTEM			
1	3023	Clip-Small (Not used on 310-8)	X
2	920079	Lockwasher #10 (Optional Not used on 310-8)	4
3	105202	Taillight Base W/Bulb 312,416 (Not used on 310-8)	2
4	910808	Screw #10-32 x 5/8 (Optional Not used on 310-8).....	4
5	112564	Taillight Lens (Not used on 310-8)	2
6	8043	Light Bulb - Metal Base (Auto #1895 Not used on 310-8)	2
	109045	Light Bulb - All Glass (Auto #194 Not used on 310-8)	2
9	109495	Retainer - Headlight L.H.	1
10	518104	Terminal	1
11	8830	Clip	1
12	926671	Bolt 1/4-20 x 1/2 ST	2
13	102138	Light Switch	1
14	920259	Special Washer.....	1
15	113179	Nut.....	1
16	102950	Lockring	1
17	109459	Clamp	2
18	109494	Retainer - Headlight R.H.....	1
19	923795	Poprivet 3/16 x 402 Aluminum (Production).....	4
20	8519	Clip-Large	X
21	100571	Cable Tie	X
22	915662	E.S. Nut 5/16-18	1
23	920155	Lockwasher 5/16	1
24	108130	Headlight Ground Wire 310,312	1
25	102881	Headlight	2
26	920008	Washer 5/16 SAE	1
27	915551	Nut #10-32 (Optional Not used on 310-8).....	4
29	920004	Washer #8 (Used with Poprivet Not used on 310-8).....	4

SECTION 12 - HYDROSTATIC SYSTEM



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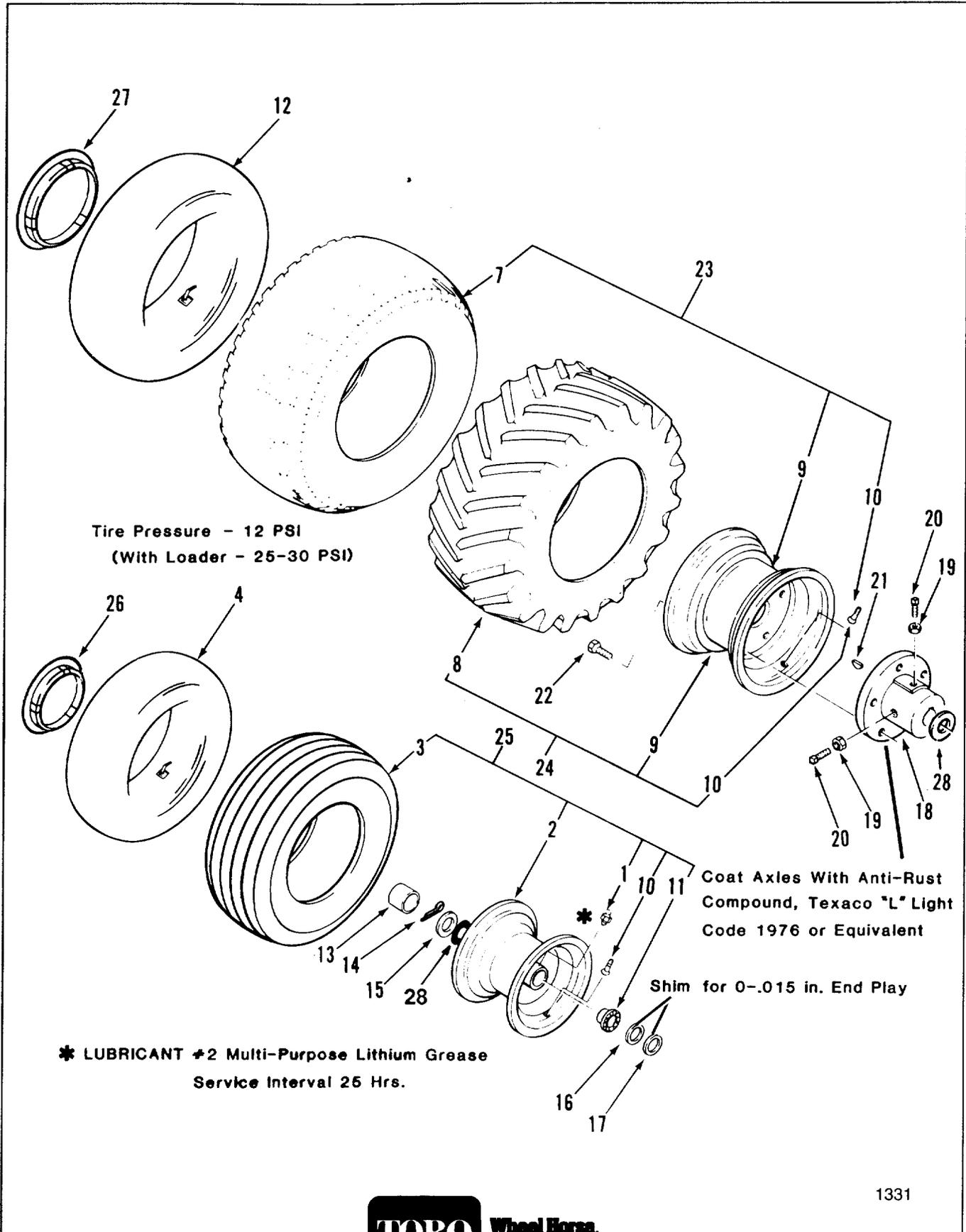


FIGURE 12-1 HYDROSTATIC SYSTEM

SECTION 12 - HYDROSTATIC SYSTEM

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 12-1 HYDROSTATIC SYSTEM 312-H , 416-H	
1	119340	Hydrostatic Cylinder	1
2	101699	Service Assembly Cylinder Repair Kit	1
3	932017	Cotter Pin 1/8 x 1	1
4	932997	Clevis Pin 1/2 x 1/4	1
7	114000	Hydraulic Valve	1
8	109081	Service Assembly Valve Repair Kit	1
9	109088	Service Assembly Cylinder Repair Kit	1
14	78-5670	Valve Handle	1
15	915661	E.S. Nut 1/4-20	2
17	932000	Cotter Pin 1/16 x 1/2	2
18	110124	Hose-Valve To Cylinder 14"	1
19	110125	Hose -Valve To Cylinder 9"	1
20	100571	Cable Tie	X
21	106267	Grommet	1
22	908009	Bolt 1/4-20 x 2	2
23	973370	O-Ring	4
24	973310	O-Ring.....	4
25	110096	Hose Transmission to Valve 26" (66.cm)	1
26	8830	Clip – Small.....	1
29	932120	Clevis Pin 1/4 SAE	1
31	810242R3	Repair Manual	1
32	107691	Spacer	1
33	1278	Washer	1
34	110504	Hose Transmission to Valve 29" (73.7cm)	2
36	78-5640	Lift Bar.....	1
45	116634	Grip	1
47	116302	Control	1
48	915661	E.S. Nut 5/16-18	1
49	920008	Washer 5/16 SAE	1
50	116305	Control Rod Bracket.....	1
51	908003	Screw 1/4-20 x 3/4	1
52	915661	E.S. Nut 1/4-20	1
53	933198	Spirol Pin 7/32 x 7/8.....	1

SECTION 13 - WHEELS AND TIRES



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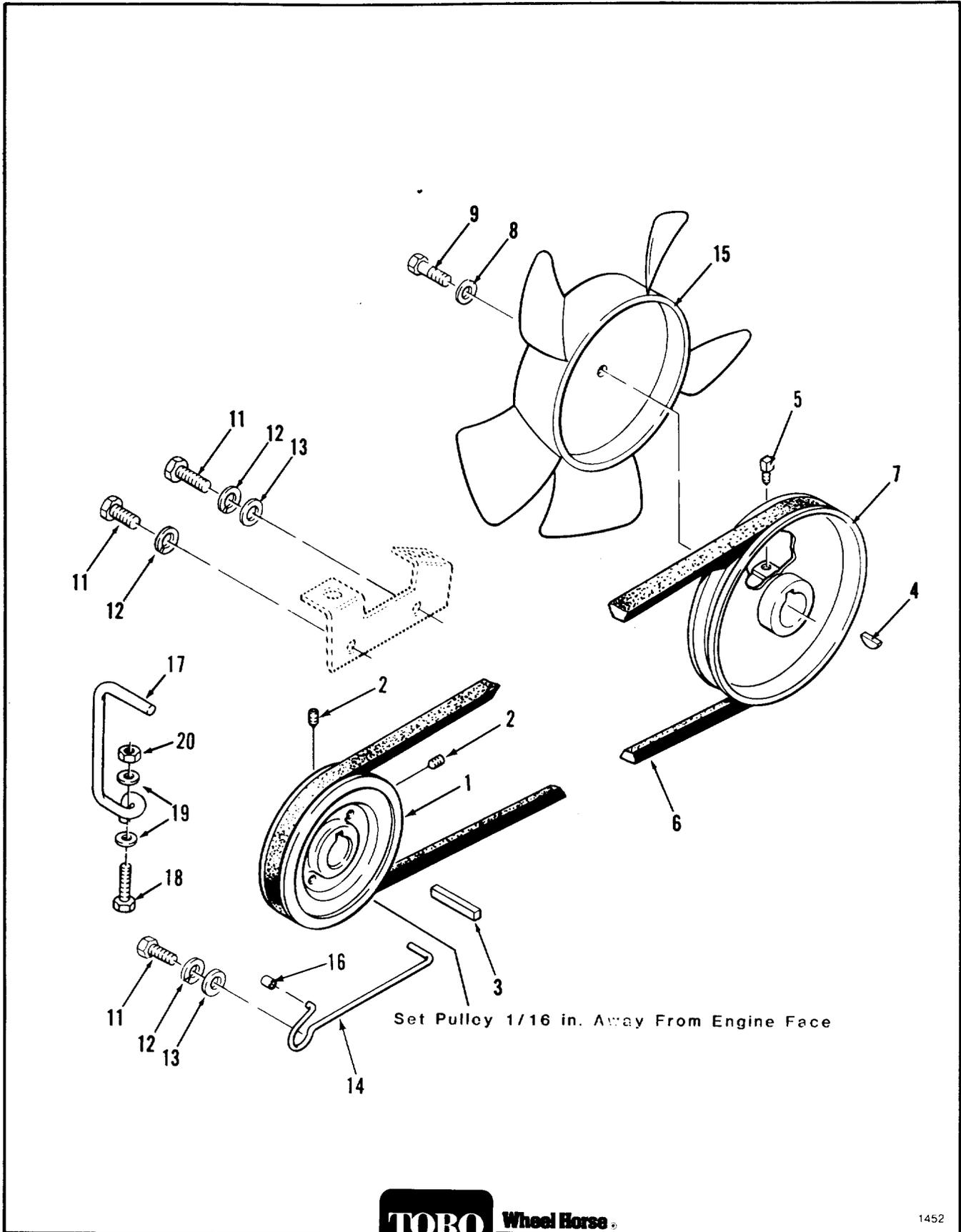
FIGURE 13-1 WHEELS AND TIRES

SECTION 13 - WHEELS AND TIRES

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
		Figure 13-1 WHEELS AND TIRES	
1	109500	Grease Fitting	2
2	117285	Front Wheel (Includes Item 1, 10 & 11 Used on 310 & 312)	2
*	78-1660	Front Wheel	2
3	116884	Frnt. Tire 15 x 600-6 Turf Trac (Used on 310 & 312)	2
*	117127	Frnt. Tire 16 x 650-8 (Used on 416).....	2
4	100079	Tube Service Only 310,312	2
7	116742	Rear Tire 23 x 850-12 Turf Trac 310 -8	2
*	116744	Rear Tire 23x 950-12 Turf Trac 312-8,312-H,416's	2
8	7607	Rear Tire 23 x 850-12 Cleat	2
9	111516	Rear Wheel 12 x 7	2
10	5108	Valve Stem	2
11	110513	Ball Bearing	4
12	1654	Rear Tube 310	2
*	7007	Rear Tube 312,416	2
*	100291	Tube Cleat Tires.....	2
13	109154	Hubcap (Used on 310 & 312)	2
*	111951	Hubcap (Used on 416).....	2
14	932026	Cotter Pin 5/32 x 1/4	2
15	109114	Special Hub Cap Washer (Used on 310 & 312)	2
*	111952	Special Hub Cap Washer.....	2
16	1278	Shim Washer .050	X
17	5210	Shim Washer .015	X
18	105763	Hub - Rear Wheel 1 1/8" ID 312-8,312-H,416's.....	2
*	105762	Hub - Rear Wheel 1" ID 310-8 *.....	2
19	915236	Jam Nut 3/8-16	4
20	909554	Set Screw 3/8-16x1.....	4
21	937108	Woodruff Key 1/4 x 1 3/8 312-H,312-8,416's	2
	937097	Woodruff Key 1/4 x 1 310-8 *.....	2
22	1004	Lug Bolt	10
23	116741	Rear Wheel & Tire Assy 310-8	2
	116743	Rear Wheel & Tire Assy 312-8,312-H,416's	2
24	110934	RH Cleat Wheel & Tire Assy	1
	110933	LH Cleat Wheel & Tire Assy	1
25	117289	Front Wheel & Tire Assy (Used on 310 & 312).....	2
*	78-1650	Front Wheel & Tire Assy (Used on 416)	2
26	114426	Hub Cap Logo 6"	2
*	114427	Hub Cap Logo 8"	2
27	114428	Hub Cap Logo 12"	2
28	106826	Thrust Washer	2

* Not Illustrated

SECTION 14 - DRIVE BELT, PULLEYS AND PTO CLUTCH

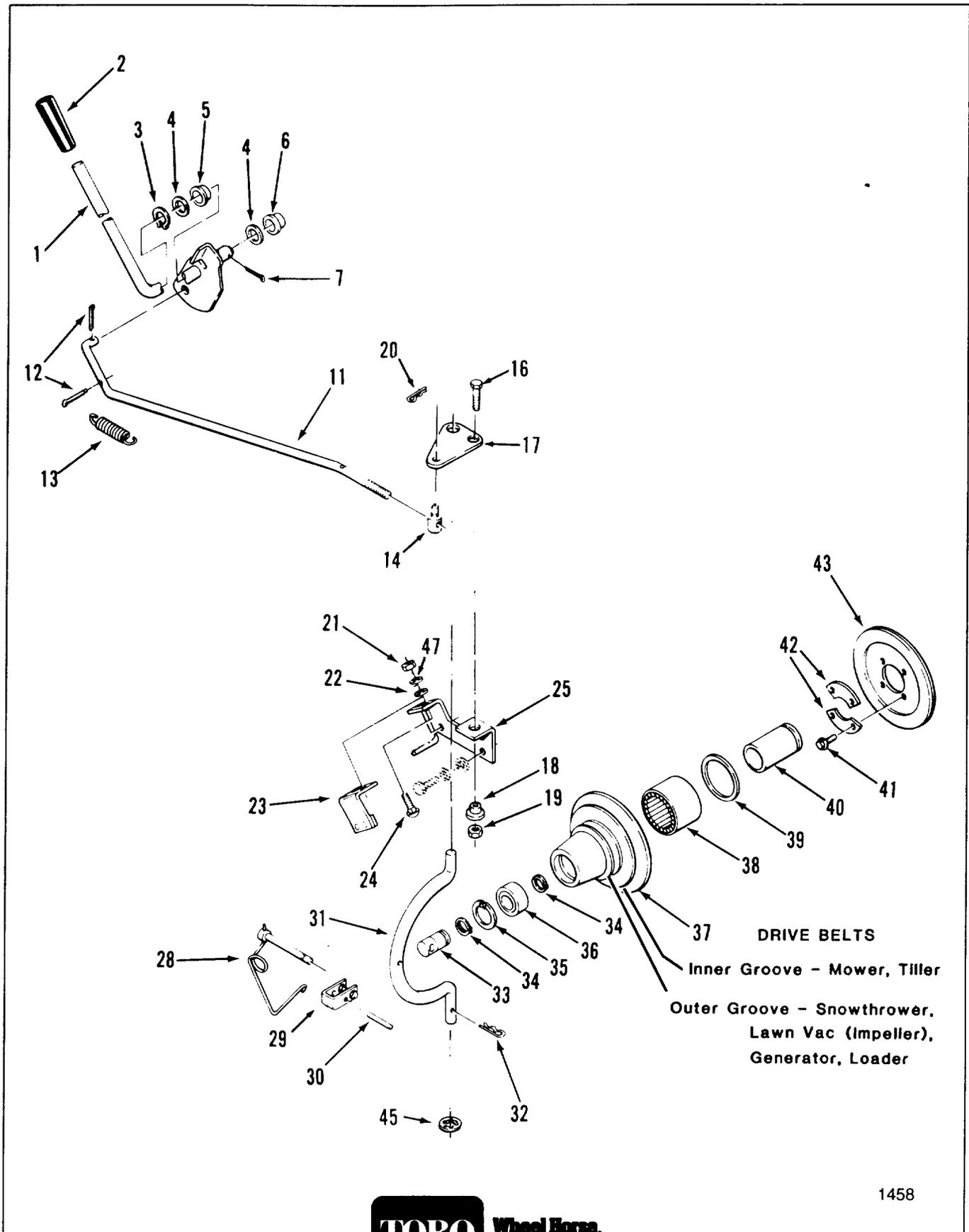


SECTION 14 - DRIVE BELT, PULLEYS AND PTO CLUTCH

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 14-1 DRIVE BELT AND PULLEYS			
1	7466	Engine Drive Pulley 310-8,312-8,416-8	1
	7443	Engine Drive Pulley 312-H,416-H	1
2	909862	Set Screw 5/16-18 x 5/16	2
3	105453	Key 1/4 x 1/4 x 3/4.....	1
4	937221	Hi-Pro Key 5/32 x 5/8	1
5	909540	Set Screw 5/16-18 x 1/2 Nylok	2
6	78-7100	Drive Belt (Used on 310-8 & 312-8)	1
*	108501	Drive Belt (Used on 312-H).....	1
*	114895	Drive Belt 416-H.....	1
*	107939	Drive Belt 416-8	1
7	106165	Transmission Drive Pulley.....	1
	108316	Transmission Drive Pulley 312-H,416-H.....	1
8	103995	Special Washer 9/32 312-H,416-H.....	1
9	908002	Esllok Bolt 1/4-20 x 5/8 312-H,416-H.....	1
11	908047	Bolt 7/16-14 x 1-1/4 310-8,312-8,312-H.....	3
	908034	Bolt 3/8-16 x 1 416's	2
12	920084	Lockwasher 7/16 310-8,312-8,312-H.....	3
	920083	Lockwasher 3/8 416's	2
13	920010	Washer 7/16 SAE 310-8,312-8,312-H	3
14	111242	Belt Guide - Bottom 310-8,312-8.....	1
15	108393	Fan 312-H,416-H	1
16	112841	Cap 310-8,312-8,312-H.....	1
17	120320	Belt Guide 416	1
18	908020	Bolt 5/16-18 x 1-1/4 416's.....	1
19	920038	Washer 5/16 US 416's	2
20	915662	E.S. Nut 5/16-18 416's.....	1

* Not Illustrated

SECTION 14 - DRIVE BELT, PULLEYS AND CLUTCH



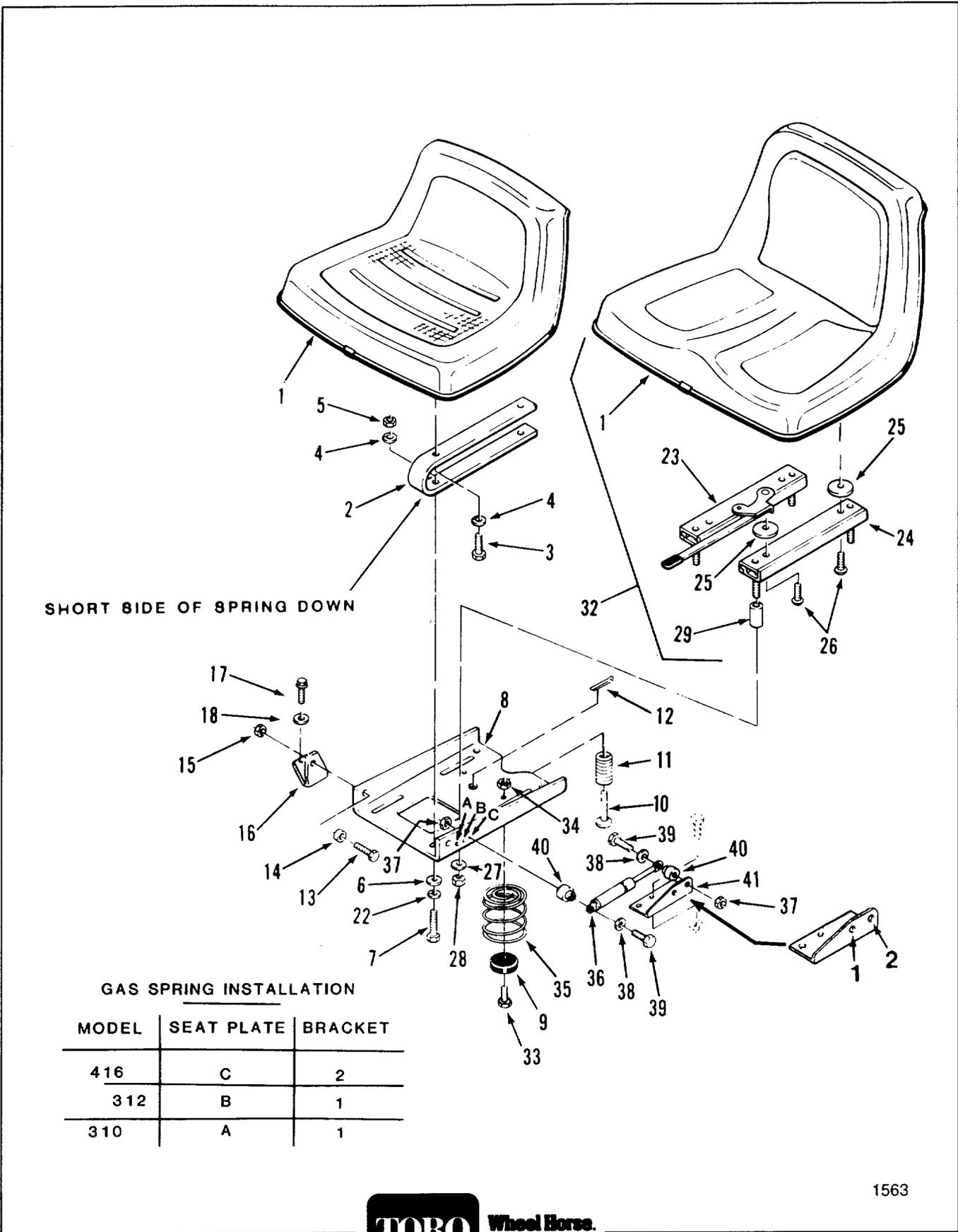
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FIGURE 14-2 PTO CLUTCH AND CONTROL

SECTION 14 - DRIVE BELT, PULLEYS AND PTO CLUTCH

ITEM	Part NUMBER	DESCRIPTION	Quantity
		Figure 14-2 PTO CLUTCH AND CONTROL	
1	111234	PTO Clutch Lever	1
2	9038	Grip	1
3	106649	Grip Ring	1
4	3765	Shim Washer	2
5	5666	Nyliner Bushing	1
6	5983	Bushing	1
7	932016	Cotter Pin 1/8 x 3/4	1
11	111052	PTO Clutch Rod	1
12	932016	Cotter Pin 1/8 x 3/4	2
13	103125	Spring	1
14	110656	Trunnion	1
16	908035	Bolt 3/8-16 x 1 1/4	1
17	110669	PTO Plate	1
18	104859	Spacer	1
19	915663	E.S. Nut 3/8-16	1
20	933505	Hairpin Cotter	1
21	915234	Jam Nut 1/4-20	2
22	920007	Washer 1/4 SAE	2
23	110665	PTO Brake Assembly	1
24	900015	Carriage Bolt 1/4-20 x 3/4	2
25	111240	Engine Bracket 310-8,312-8	1
	111241	Engine Bracket 312-H	1
	113874	Engine Bracket 416-H	1
	113853	Engine Bracket 416-8	1
28	111314	Locking Pin	1
29	1131071	Clevis	1
30	933274	Spirol Pin 5/32 x 1-3/8	1
31	113108	PTO Housing Rod	1
32	933506	Hairpin Cotter	1
33	102872	Stub Shaft	1
34	936125	Snap Ring 3/4 External	2
35	936032	Snap Ring 1 3/4 Internal	1
36	109842	Ball Bearing	1
37	103478	Pulley Housing	1
38	106769	Needle Bearing	1
39	6662	Seal	1
40	6658	Bearing Race	1
41	908002	Nylok Bolt 1/4-20 x 5/8	4
42	6659	Retainer	2
43	114881	Clutch Plate & Facing	1
45	106695	Push-On Ring	1
47	920081	Lock Washer 1/4	1

SECTION 15 - SEAT AND DECALS



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FIGURE 15-1 SEAT

SECTION 15 - SEAT AND DECALS

ITEM	PART NUMBER	DESCRIPTION	Quantity
		Figure 15-1	
		SEAT	
1	116406	Seat (Used on 312-H & 416-H).....	1
	113985	Seat 312-8,416-8	1
	114894	Seat 310-8	1
2	110920	Seat Spring 310-8,312-8,312-H	2
	114263	Seat Spring 416's	2
3	908017	Bolt 5/8-18 x 3/4	4
4	920082	Lockwasher 5/16	8
5	915112	Nut 5/16-18	4
6	920008	Washer 5/16 SAE	4
7	908018	Bolt 5/16-18 x 7/8.....	4
8	112478	Seat Pivot Plate	1
9	108889	Bumper	2
10	106449	Pin	1
11	114267	Spring	1
12	932008	Cotter Pin 3/32 x 3/4	1
13	908018	Bolt 5/16-18 x 7/8.....	2
14	105503	Bushing	2
15	915662	E.S. Nut 5/16-18	2
16	112744	Pivot Bracket RH	1
	112745	Pivot Bracket LH	1
17	913464	Bolt 5/16-18 x 7/8.....	4
18	920008	Washer 5/16 SAE	4
22	920082	Lockwasher 5/16.....	4
23	114264	Adjuster RH (With Latch) 416's	1
24	114265	Adjuster LH 416's.....	1
25	109989	Spacer 416's.....	4
26	910865	Screw 5/16-18 x 3/4 416's.....	4
27	920038	Washer 5/16 SAE 416's.....	4
28	915112	E.S. Nut 5/16-18 416's	4
29	110932	Spacer 416's	4
32	113981	Deluxe Seat Assy (Includes Items 1,23,24,25,26 & 29)	X
33	908019	Bolt 5/16-18 x 1.....	2
34	915662	E.S. Nut 5/16-18	2
35	114496	Seat Lifter Spring - Black 310-8,312-8,416's	2
36	114343	Spring (Used on 310-8,312-8,312-H & 416-H)	1
	78-3240	Spring (Used on 416-8 Only)	1
37	915661	E.S. Nut 1/4-20	2
38	920007	Washer 1/4 SAE	2
39	908006	Bolt 1/4-20 x 1-1/4.....	2
40	114344	Spacer (Used on 310-8,312-8,312-H & 416-H)	2
	78-3250	Spacer (Used on 416-8 Only)	1
41	114345	Bracket	1

SECTION 15 - SEAT AND DECALS

ITEM	PART NUMBER	DESCRIPTION	Quantity
Figure 15-2 DECALS			
1	118350	Decal-Hood RH 310-8,312-8,312-H	X
	117496	Decal-Hood RH 416-8	X
	117780	Decal-Hood RH 416-H	X
2	117459	Decal-Hood LH 310-8,312-8,312-H	X
	117497	Decal-Hood LH 416-8	X
	117790	Decal-Hood LH 416-H	X
3	117242	Decal-Made In USA	1
4	111510	Decal-Parking Brake (Used on 310-8,312-8 & 416-8)	1
*	116445	Decal-Parking Brake	1
5	111960	Decal-PTO Clutch	1
7	116446	Decal-Do Not Tow 312-H,416-H	1
9	117760	Decal-Rear Fender	1
10	118540	Decal-Power Plus 416's	1
11	117509	Decal-Front Hood.....	1
12	810727R1	Operator's Manual-Tractor 310-8,312-8,416-8	X
	810728R1	Operator's Manual-Tractor 312-H,416-H	X
13	807296	Loose Parts Package 310-8,312-8	X
	807298	Loose Parts Package (Used on 416-8 & 416-H)	X
	807314	Loose Parts Package 312-H.....	X
14	119220	Decal-Switch Plate.....	1
15	119170	Decal-Lower Dash 310-8	1
	119190	Decal-Lower Dash 312-8	1
	119200	Decal-Lower Dash 416-8	1
	78-7190	Decal-Lower Dash 312-H.....	1
	78-7270	Decal-Lower Dash 416-H.....	1
16	116544	Decal-Rear Hood	1
17	111534	Decal-Hi-Low Shift 310-8,312-8,416-8	1
18	117486	Decal-8-Speed 310-8	2
	117487	Decal-8-Speed 312-8	2
	117513	Decal-8-Speed 416-8	2
19	117488	Decal-HYDRO 312-H	2
	117511	Decal-HYDRO 416-H	2
20	115197	Decal-Attach-O-Matic	1
21	112168	Decal-Lift	1
22	110831	Plastic Tractor Cover	X
23	115398	Decal-Maintenance	1
24	111926	Decal-Electrical System	1
25	104955	Decal-Unidrive	1
26	114296	Decal-Seat Lifter	1
27	79-0370	Decal-Danger.....	1
28	112670	Decal-Danger.....	1
29	112403	VIN Tag Overlay	1
30	KH10191	Decal-Air Cleaner/Lub 310,312 (Vendor #41 113 02).....	1
31	78-9130	Decal-Cold Start (Used on 312-H).....	1

SECTION 17 - WIRING DIAGRAM

310-8 SINGLE CYLINDER WIRING DIAGRAM

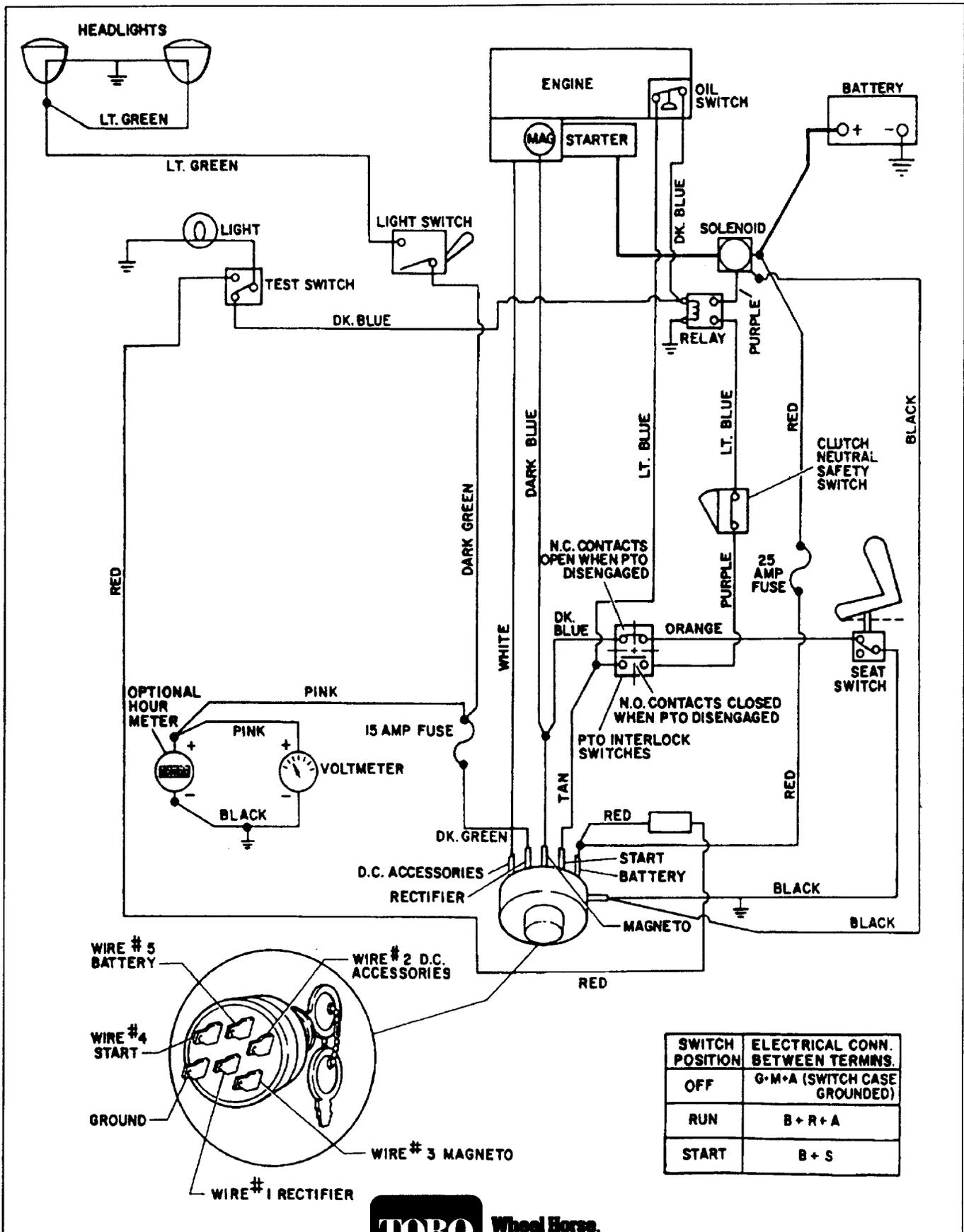


FIGURE 17-1 WIRING DIAGRAM

SECTION 17 - WIRING DIAGRAM

312-8 & 312-H WIRING DIAGRAM

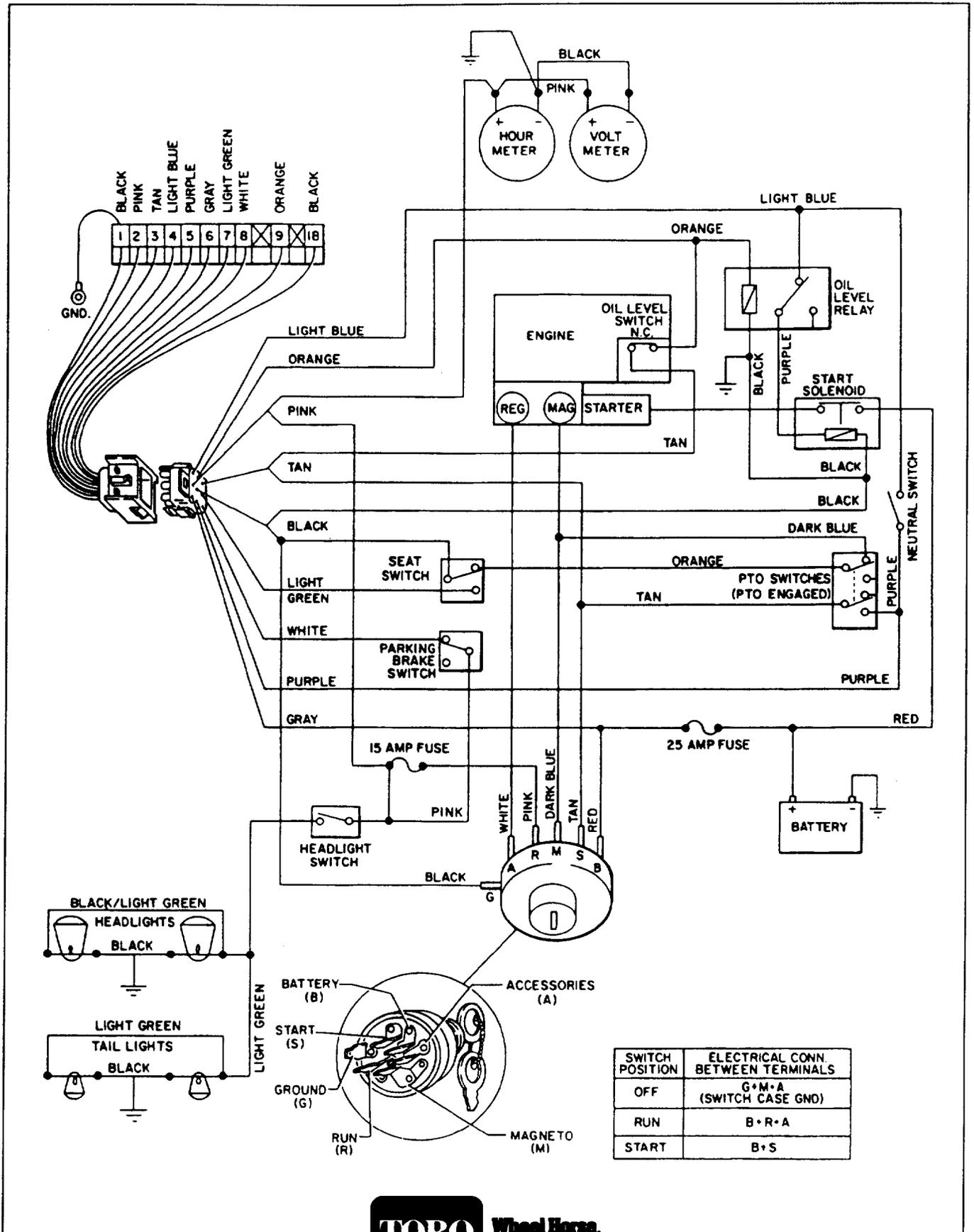


FIGURE 17-2 WIRING DIAGRAM

SECTION 17 - WIRING DIAGRAM

416-8 & 416-H WIRING DIAGRAM

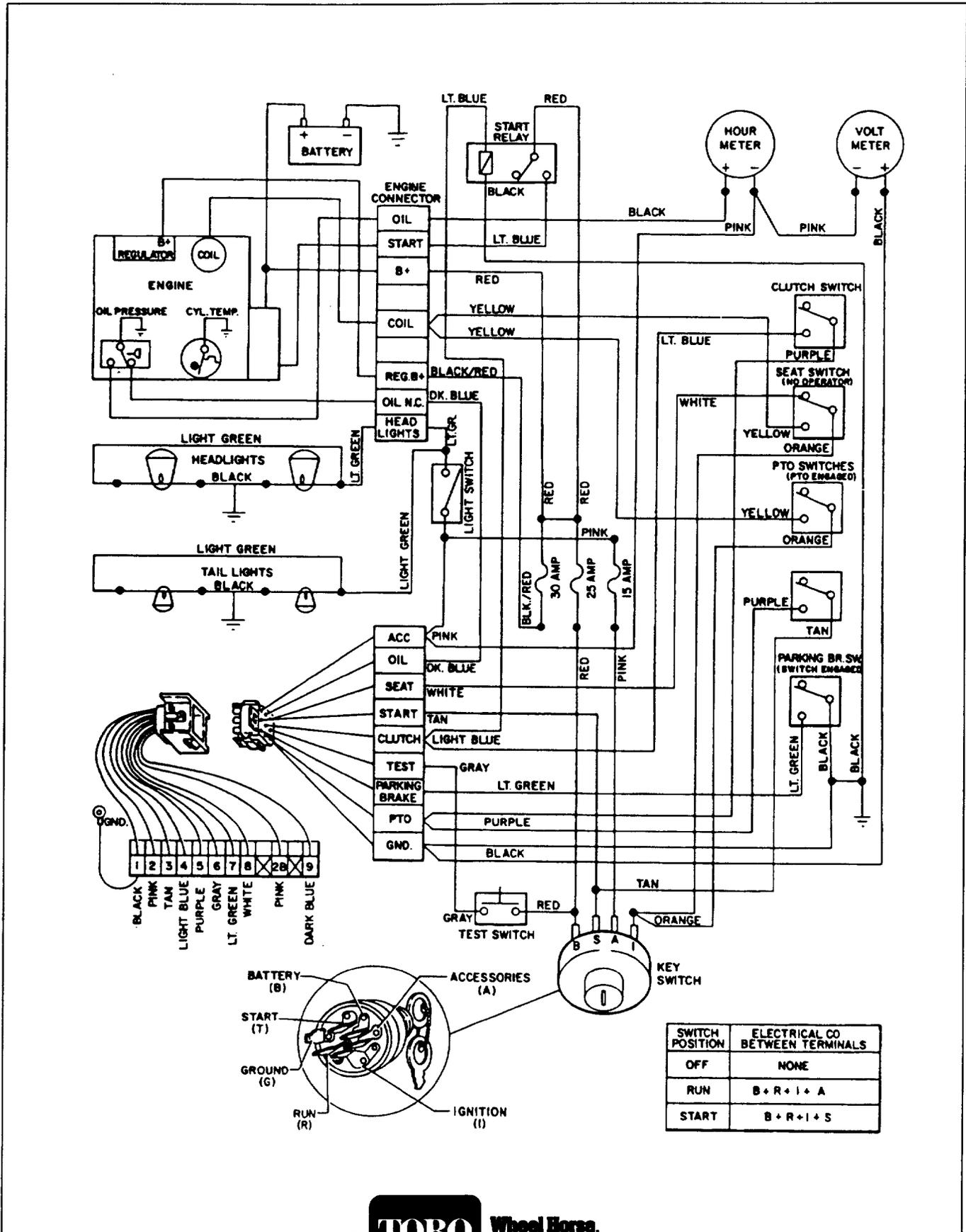


FIGURE 17-3 WIRING DIAGRAM

