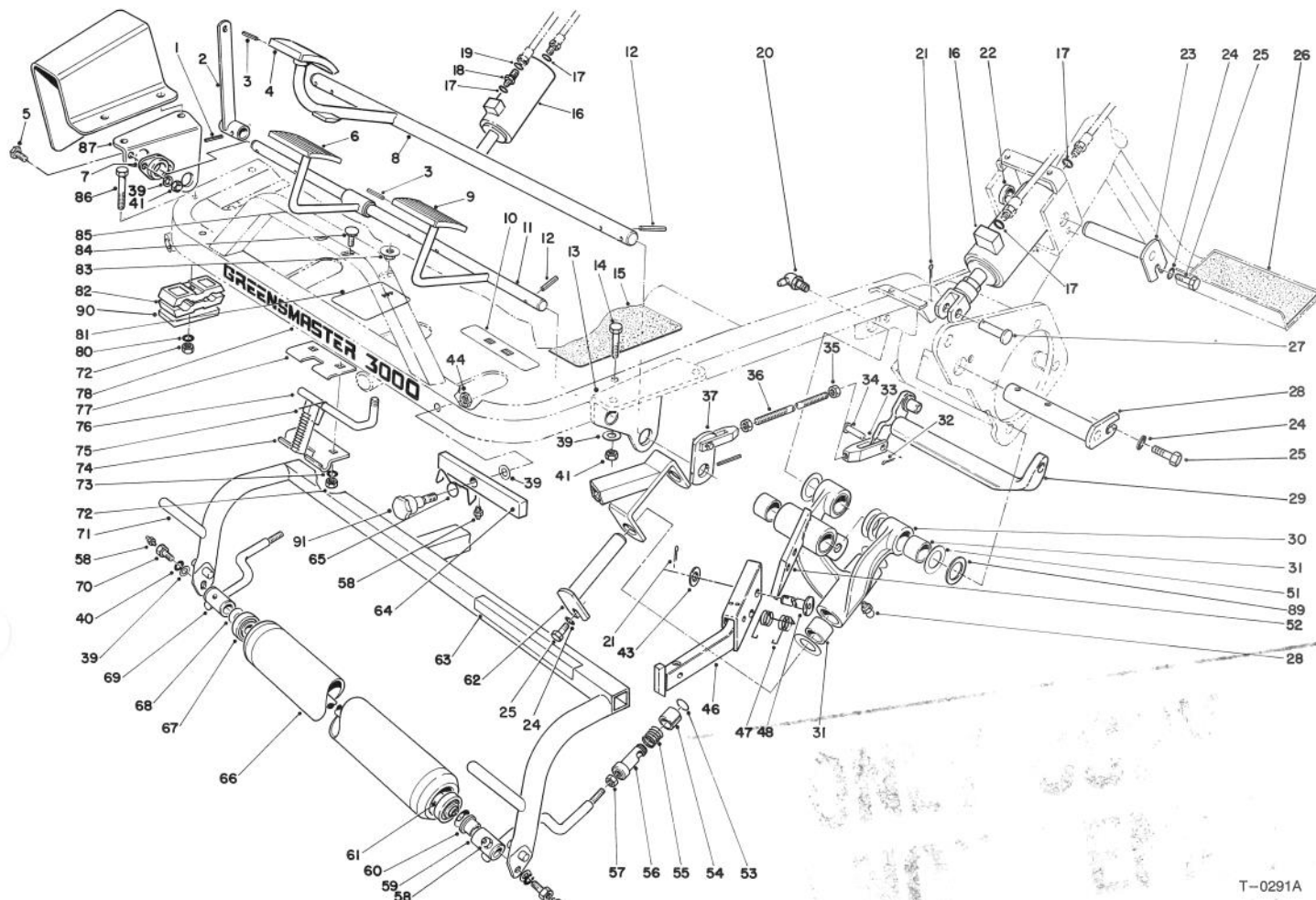




MODEL NO. 04350 - 50001 & UP

PARTS CATALOG

GREENSMASTER® 3000 TRACTION UNIT

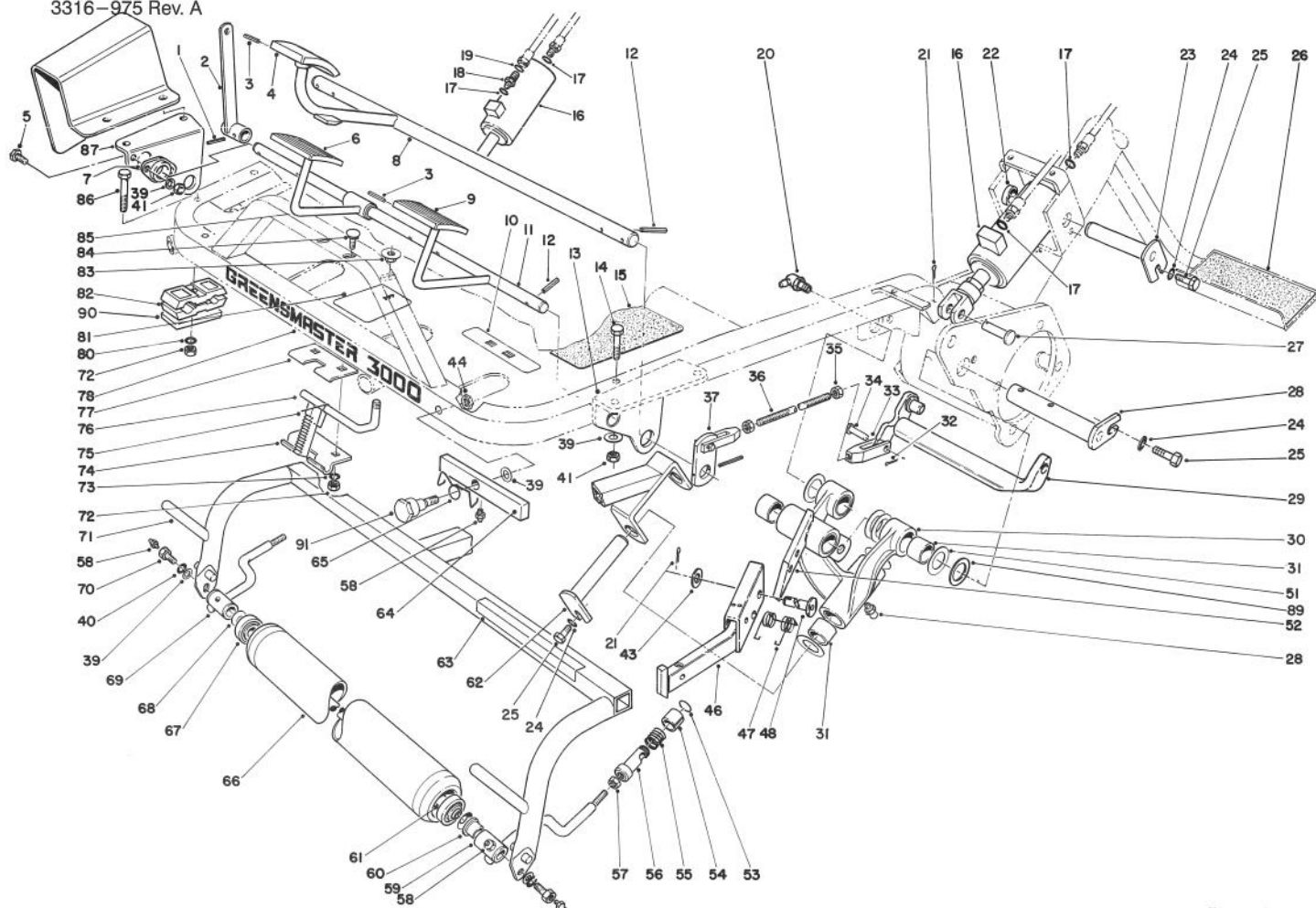


T-0291A

FOOT PEDALS & ROLLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32121-6	Pin - Roll	1
2	49-6200	Lever - Cutting Control	1
3	32121-45	Pin - Roll	3
4	49-6170	Foot Pad - Brake	1
5	3234-1	Screw - Hex. Flange Hd.	4
6	10-8250	Foot Pad - Mow	1
7	27-2320	Bearing - Flange	2
8	83-0160	Shaft - Brake	1
9	10-8240	Foot Pad - Lift	1
10	51-0050	Decal - Mow/Lift	1
11	88-9660	Shaft - Cutting Control	1
12	32121-35	Pin - Roll	8
13	88-9640	Lift Pivot Bracket - L.H.	1
14	323-10	Screw - Cap, Hex Hd.	4
15	49-6120	Pad - Footrest	1
16	84-8290	Cylinder - Hydraulic	2

Ref. No.	Part No.	Description	No. Used
17	237-78	O-Ring	4
18	340-92	Fitting - Straight	1
19	237-21	O-Ring	1
20	302-60	Fitting - Grease	4
21	3272-11	Pin - Cotter	3
22	74-3730	Spacer	2
23	10-6060	Pin - Ram Pivot	2
24	3253-4	Washer - Lock	6
25	322-1	Screw - Cap, Hex. Hd.	6
26	62-2660	Pad - Foot Step	1
27	283-8	Pin - Clevis	2
28	10-6110	Pin - Hinge	2
29	71-1510	Lever - Brake	1
30	10-7820	Hinge - Pivot (Incl. Ref. #31)	1
31	3-0348	Bushing	10

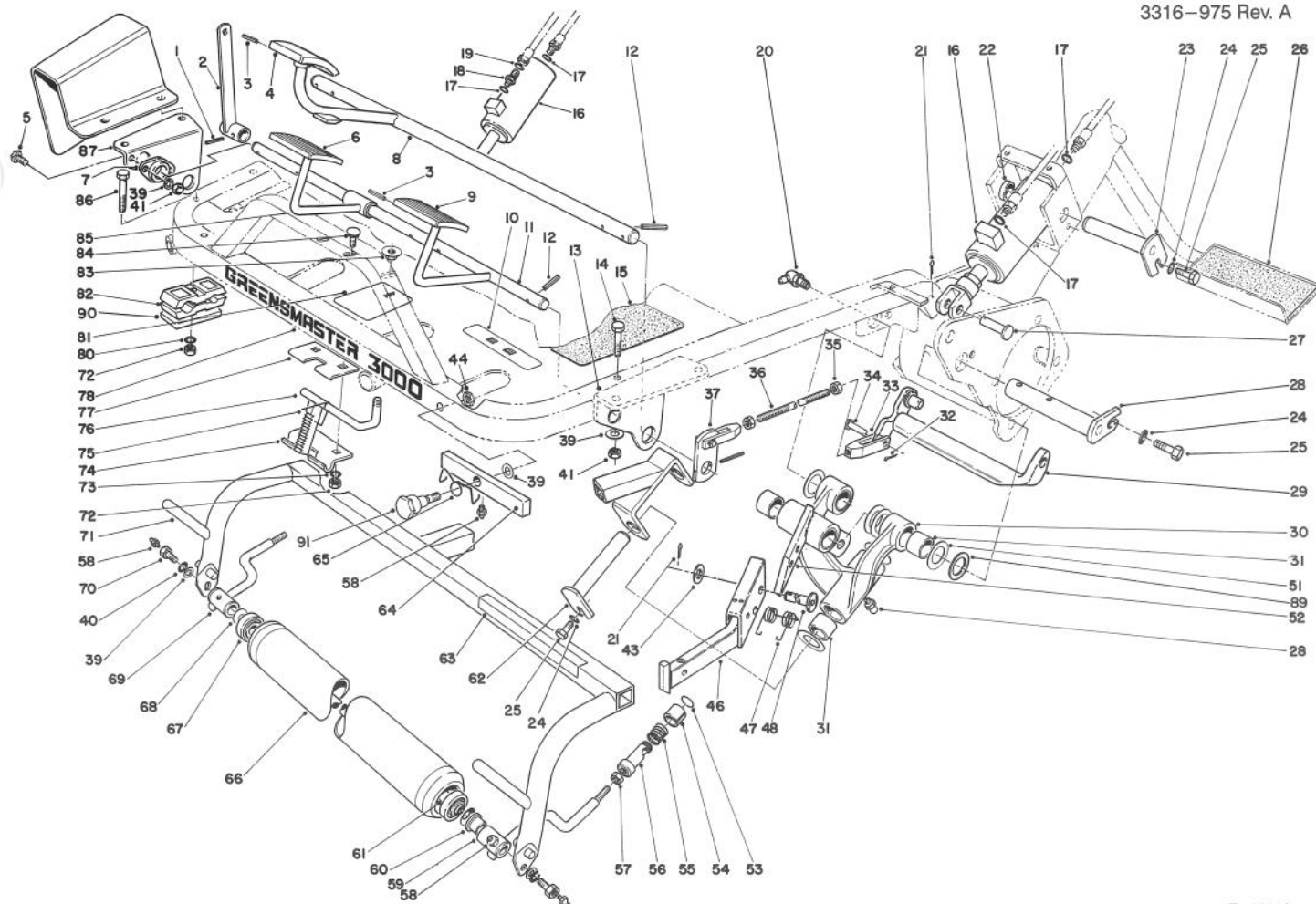


T-0291A

FOOT PEDALS & ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	3272-6	Pin - Cotter	4
33	282-2	Yoke	4
34	283-1	Pin - Clevis	4
35	3220-2	Nut - Hex	4
36	27-2270	Rod - Brake Adjustment	2
37	10-8100	Strap - Brake Shaft	2
39	3256-24	Washer - Flat	15
40	3253-21	Washer - Lock	8
41	3296-59	Nut - Hex.	8
43	3256-26	Washer - Flat	1
44	3296-39	Nut - Lock	1
45	3272-12	Pin - Cotter	1
46	62-2390	Bar - Lift Arm L.H.	1
47	57-7650	Spring - Torsion	1
48	63-8750	Pin - Pivot	1
51	10-8110	Washer - Thrust	18
52	62-2460	Lift Arm - L.H. (Incl. Ref. #31)	1
53		Ring - Retaining	6
54		Sleeve	6
55		Spring	6
56	8-7710	Ball Joint Receiver Assy. (Incl. Ref. #53-55)	6
57	3220-3	Nut - Hex, Jam	6
58	302-5	Fitting - Grease	8

Ref. No.	Part No.	Description	No. Used
59	92-0586	Pull Arm Assembly - L.H. (Incl. Ref. #60)	3
60	3-1506	Bushing	12
61	21-8470	Shaft - Yoke Roller	3
62	10-6090	Pin - Pivot	2
63	62-5070	Decal - Danger	1
64	83-0060	Lift Pivot	1
65	83-0080	Spring - Lift Pivot	1
66	52-2720	Roller Assembly (Incl. Ref. #67)	3
67	251-141	Bearing - Ball	6
68	3290-317	Washer - Spring	6
69	92-0585	Pull Arm Assembly - R.H. (Incl. Ref. #60)	3
70	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #58)	6
71	92-9176	Pull Frame - L.H.	1
72	3296-16	Nut - Hex	3
73	3253-3	Washer - Lock	2
74	10-7890	Hinge - Lower, Park Brake	1
75	10-8140	Spring - Brake Latch	1
76	10-7850	Latch - Parking Brake	1
77	10-7880	Hinge - Upper, Park Brake	1
78	92-1199	Decal - Greensmaster 3000	1
80	3256-22	Washer - Flat	1
81	27-2830	Decal - Parking Brake	1

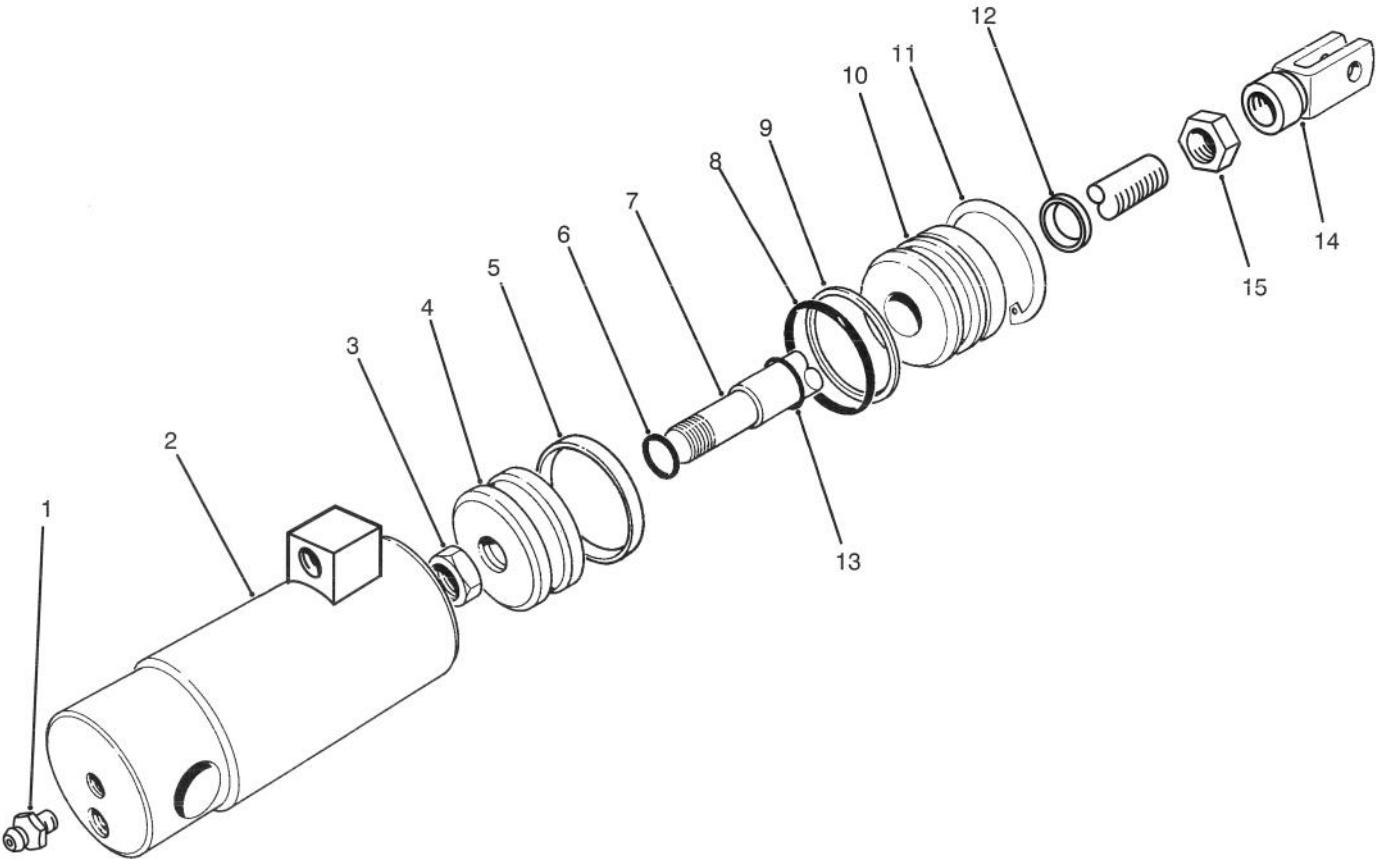


T-0291A

FOOT PEDALS & ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
82	56-7970	Clamp - Tube	2
83	32141-111	Nut - Hex Hd. Flange	1
84	3229-22	Bolt - Carriage	2
85	83-0140	Foot Pedal	1
86	321-23	Screw - Cap, Hex Hd.	1

Ref. No.	Part No.	Description	No. Used
87	88-9630	Lift Pivot Bracket - R.H.	1
88	49-6110	Guard - Transfer Rod	1
89	5-1226	Washer - Shim	2
90	69-9760	Plate - Cover	1
91	83-2590	Bolt - Shoulder	1



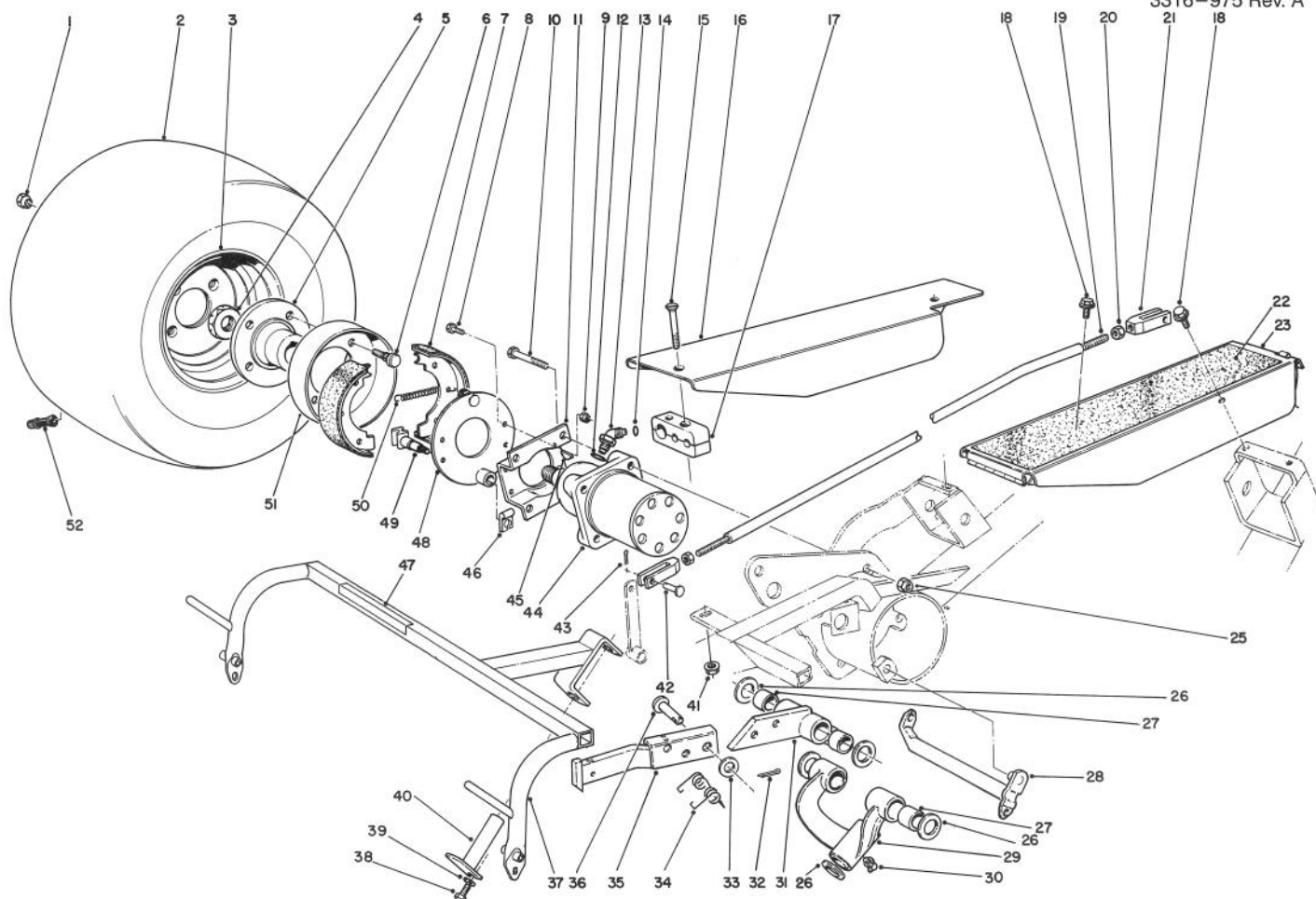
T-1373

FRONT HYDRAULIC CYLINDER NO. 84-8290

Ref. No.	Part No.	Description	No. Used
1	302-2	Fitting - Grease	2
2		Barrel Assembly	1
3	32152-10	Nut-Lock	1
4	52-1990	Piston	1
5		Uniring - Grooved	1
6		O-Ring	1
7	76-1860	Shaft with Clevis	1
8		O-Ring	1
9		Washer - Backup	1

Ref. No.	Part No.	Description	No. Used
10	65-4860	Head	1
11	32120-8	Ring - Retaining Internal	1
12		Dust Seal	1
13		Seal	1
14	76-1850	Clevis	1
15	3220-6	Nut - Jam	1
*	86-5390	Seal Repair Kit (Incl. Ref.#5, 6, 8, 9 & 12-13)	1

*Not Illustrated



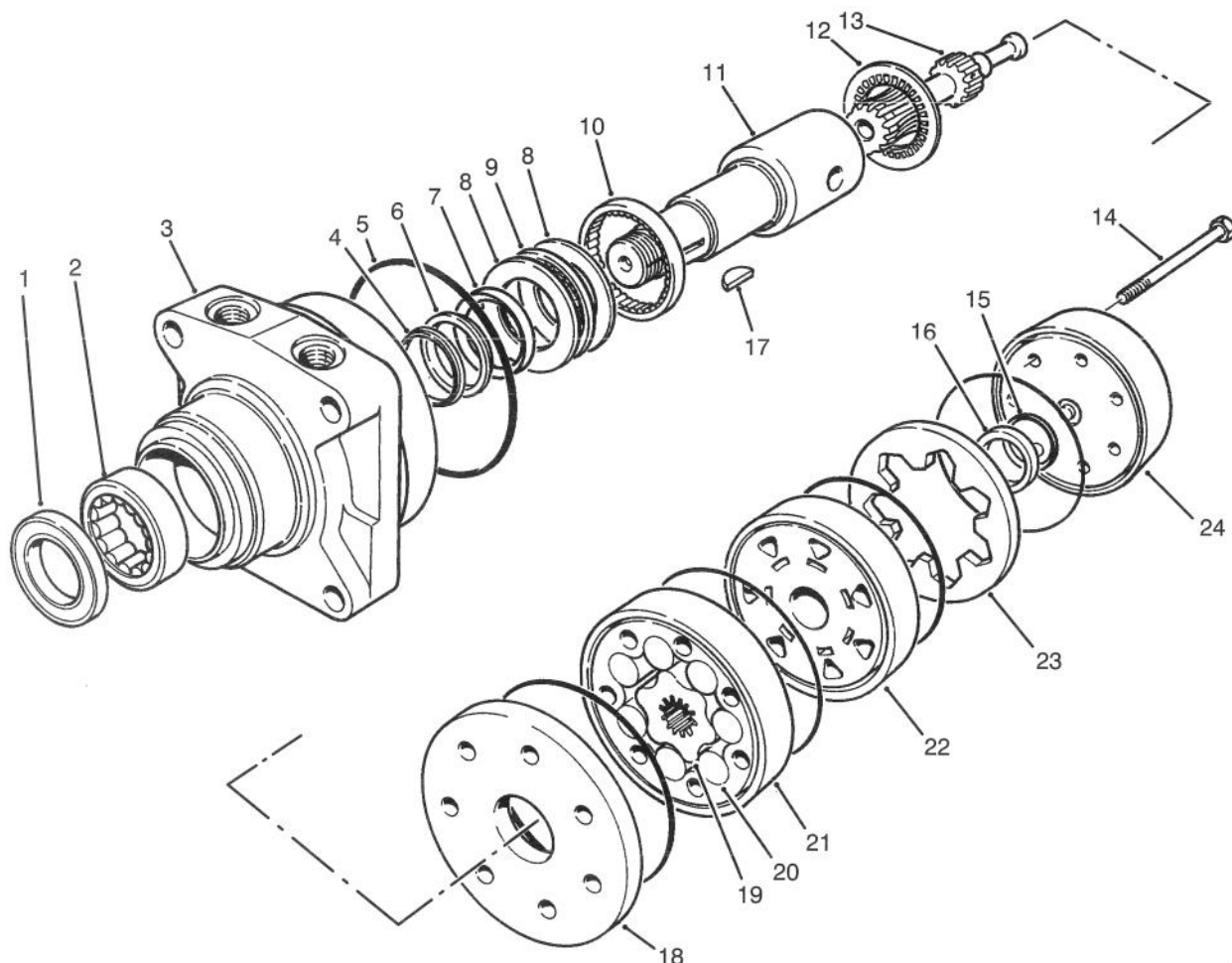
T-0293A

WHEEL AND BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	242-50	Nut - Wheel	8	28	71-1510	Arm - Brake R.H.	1
2	28-3680	Tire	2	29	10-7820	Hinge - Pivot (Incl. Ref. #27 & 30)	1
*	231-124	Tire - Treaded	2	30	302-60	Fitting - Grease	1
*	62-2580	Spacer	2	31	62-2440	Arm - Lift, R.H.	2
3	217-60	Rim	2	32	3272-11	Pin - Cotter	2
4	26-3790	Nut - Lock	2	33	3256-26	Washer - Flat	3
5	10-6870	Hub - Wheel	2	34	57-7650	Spring - Torsion	2
6	85-6540	Stud - Drive Type	8	35	62-2420	Bar - Arm, Lift	1
7	70-9840	Shoe & Lining Assembly	4	36	63-8750	Pin - Pivot	2
8	321-5	Screw - Cap, Hex. Hd.	8	37	92-9177	Frame - Pull, R.H.	1
9	3296-42	Nut - Lock	8	38	322-1	Screw - Cap, Hex. Hd.	1
10	325-11	Screw - Cap, Hex. Hd.	8	39	3253-4	Washer - Lock	1
11	84-2000	Bracket - Brake	2	40	10-6090	Pin - Pivot	1
12	237-80	O-Ring	4	41	3296-16	Nut - Lock, Flange	3
13	340-14	Fitting (Incl. Ref. #12 & 14)	4	42	283-1	Pin - Clevis	2
14	237-65	O-Ring	4	43	3272-6	Pin - Cotter	2
15	32108-100	Screw - Mach. Phillips Hd.	3	44	75-9990	Motor - Hydraulic	2
16	49-5450	Plate - Cover	1	45	3257-42	Key - Woodruff	2
17	57-6140	Clamp - Tube Side	4	46	70-9850	Clip - Retainer	2
18	3234-4	Screw - Cap, Hex. Hd.	4	47	62-5070	Decal - Danger	1
19	49-5430	Rod - Control	1	48	70-9870	Plate - Backing, Brake	2
20	3220-2	Nut	2	49	70-9860	Shaft - Cam	2
21	282-2	Yoke	2	50	70-9880	Spring	4
22	10-8220	Pad - Tool Box	1	51	10-6821	Drum Assy. (Incl. Ref. #5-6)	1
23	49-5410	Box - Tool	1	52	232-24	Valve Stem w/Cap	2
25	3296-23	Nut - Lock	8	*	71-1500	Brake Assembly (Incl. Ref. #7, 46, & 48-50)	2
26	10-8110	Washer - Thrust	6	*†	232-37	Inner Tube - Heavy Duty	2
27	3-0348	Bushing	6				

*Not Illustrated

†Service Replacement Part



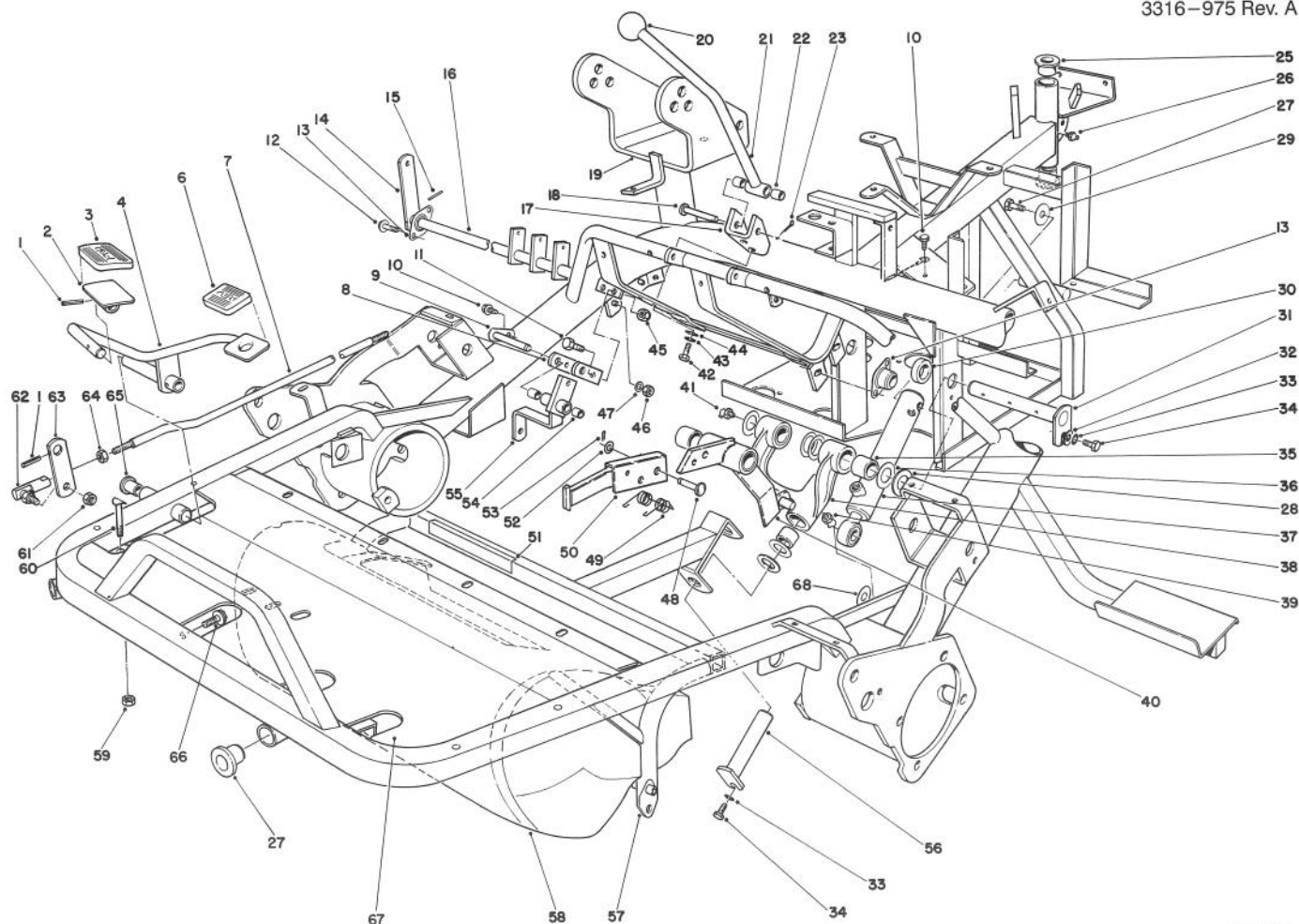
T-0987

HYDRAULIC DRIVE MOTOR NO. 75-9990

Ref. No.	Part No.	Description	No. Used
1		Seal - Dirt & Water	1
2		Bearing	1
3		Housing	1
4		Washer - Backup	1
5		Seal Rings	5
6		Washer - Backup	1
7		Seal - Inner	1
8		Washer - Thrust	2
9		Bearing - Thrust	1
10		Bearing	1
11	76-0860	Shaft - Coupling	1
12	76-0850	Bearing - Thrust	1
13	76-0960	Link - Drive	7
14	76-1010	Screw - Cap, Hex. Hd.	1
15		Seal - Commutator	1
16		Commutator	1

Ref. No.	Part No.	Description	No. Used
17	3257-42	Key - Woodruff	1
18	76-0870	Plate - Wear	1
19		Rotor	1
20		Vane	7
21		Stator	1
22	76-0840	Manifold	1
23		Ring - Commutator	1
24	76-0940	End Cover Assembly	1
*	76-0970	Rotor Set (Incl. Ref. #19-21)	1
*	76-0880	Commutator Assembly (Incl. Ref. #15, 16 & 23)	1
*	76-0800	Seal Kit (Incl. Ref. #1, 4-7 & 15)	1
*	76-0810	Housing Assembly (Incl. Ref. #2, 3 & 8-10)	1

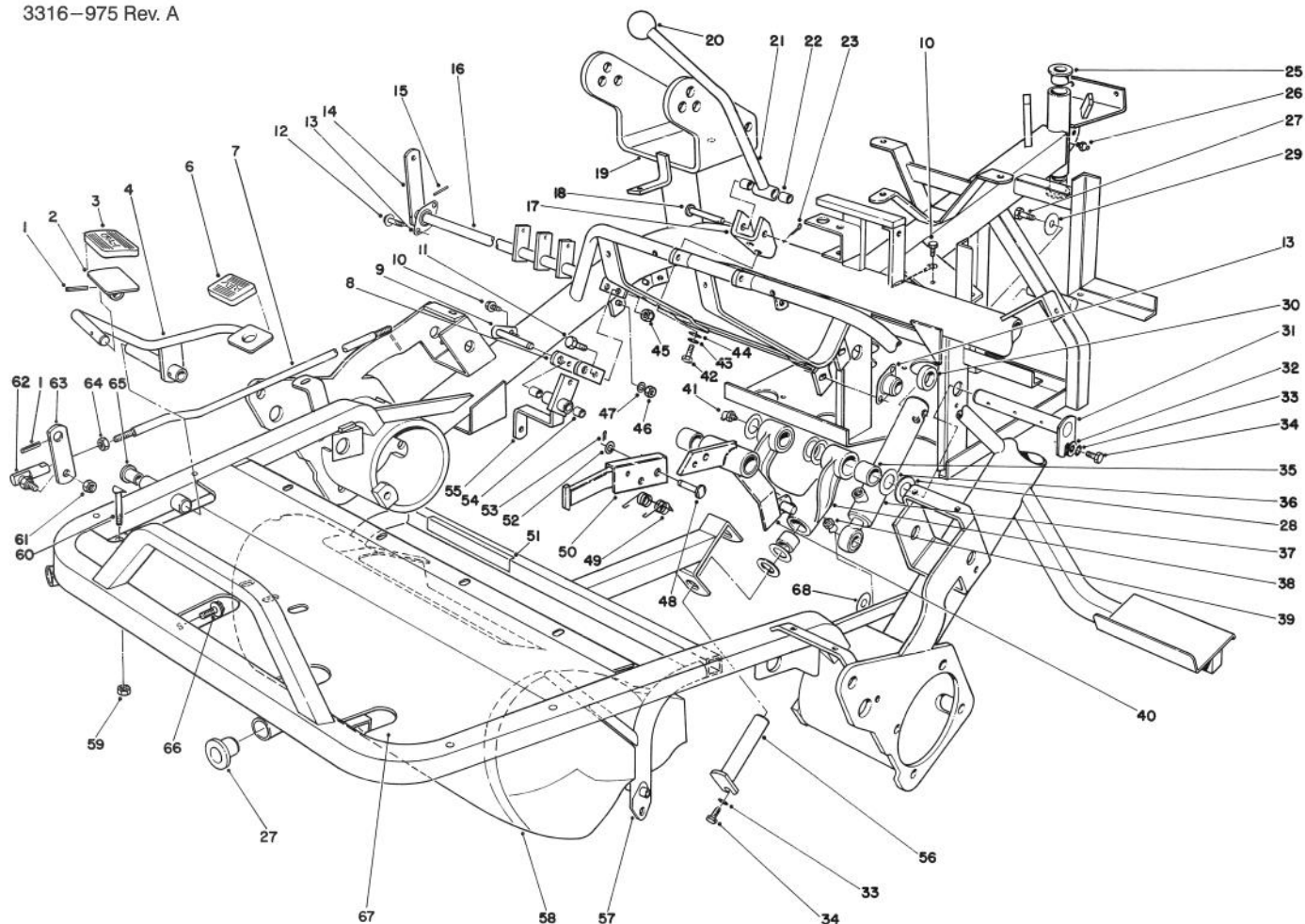
*Not Illustrated



T-0295A

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32121-45	Pin-Roll	2	26	302-5	Fitting - Grease	1
2	49-6440	Pedal - Accelerator	1	27	83-1700	Bushing - Flange	3
3	49-6470	Pad - Pedal Forward	1	28	5-1226	Washer	A/R
4	83-0540	Rod - Accelerator	1	30	27-2540	Spacer - Hub	1
5	32121-45	Pin-Roll	1	31	27-2550	Pin - Hinge	1
6	49-6430	Pad - Pedal Reverse	1	32	3256-23	Washer - Flat	1
7	49-6320	Rod - Traction Control	1	33	3253-4	Washer - Lock	2
8	49-6250	Bracket - Traction Pivot	1	34	322-1	Screw - Cap, Hex Hd.	2
9	49-6290	Shaft - Traction Pivot	1	35	3-0348	Bushing	6
10	12-3270	Screw - Pentafl	1	36	10-8110	Washer-Thrust	6
11	322-5	Screw - Cap, Hex Hd.	2	37	83-7000	Hydraulic Cylinder Assy.	1
12	3234-1	Screw - Flange, Hex. Hd.	4	38	10-7820	Pivot Hinge	
13	27-2320	Side Flange - Bearing	2			(Incl. Ref. #35)	1
14	47-5320	Lever - Cutting Control	1	39	302-60	Fitting - Grease	1
15	32121-6	Pin - Roll	1	40	88-9670	Lift Arm - Center	
16	44-0870	Camshaft - Rear	1			(Incl. Ref. #35)	1
17	49-6220	Bracket - Control Arm	1	41	302-11	Fitting - Grease	1
18	283-57	Pin - Clevis	1	42	3211-1	Screw - Cap, Hex Hd.	2
19	92-1192	Frame	1	43	3254-6	Washer - Lock	2
		(Incl. Ref. #25 & 65)	1	44	3256-24	Washer - Flat	2
20	233-48	Knob	1	45	3296-29	Nut - Lock	2
21	68-5930	Handle - Traction	1	46	3296-59	Nut - Lock	4
		(Incl. Ref. #22)	1	47	3256-24	Washer - Flat	4
22	256-251	Bushing	2	48	63-8750	Pin - Pivot	1
23	3272-4	Pin - Cotter	1	49	57-7650	Spring - Torsion	1
25	256-290	Bushing	2				

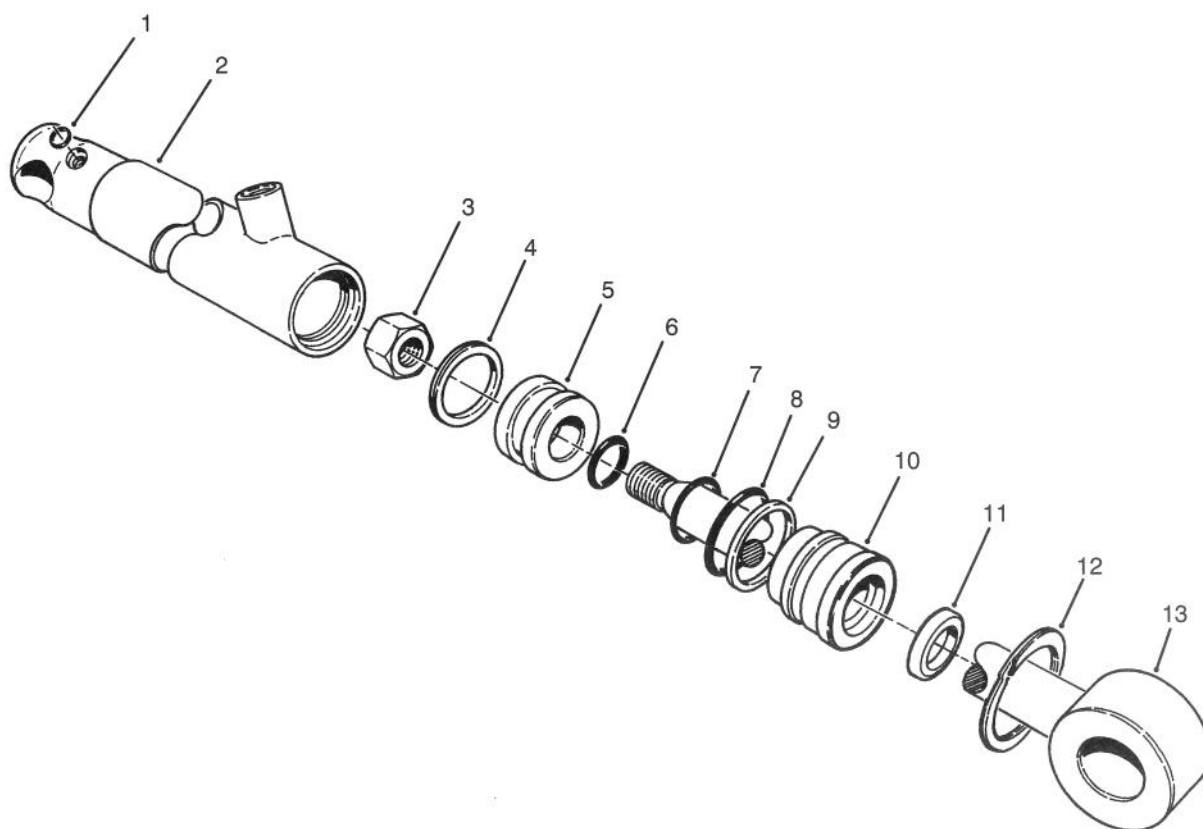


T-0295A

FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
50	62-2420	Bar - Lift Arm (R.H. & Center)	1
51	62-5070	Decal - Danger	1
52	3256-26	Washer - Flat	1
53	3272-11	Pin - Cotter	1
54	256-2	Bushing	2
55	49-6260	Tube - Traction Pivot (Incl. Ref. #54)	1
56	10-6090	Pin - Pivot	1
57	86-9820	Pull Frame - Rear	1
58	36-7250	Grass Basket	3

Ref. No.	Part No.	Description	No. Used
59	32128-20	Nut - Hex	1
60	77-0480	Screw - Accelerator Stop	1
61	3296-4	Nut - Lock	2
62	2411-32	Ball Joint	2
63	92-1194	Plate - Traction	1
64	3220-2	Nut - Hex. Jam	2
65	256-219	Bushing	2
66	32144-14	Screw - Cap, Hex. Hd.	1
67	88-6900	Plate - Footrest	1
68	10-7920	Washer	1



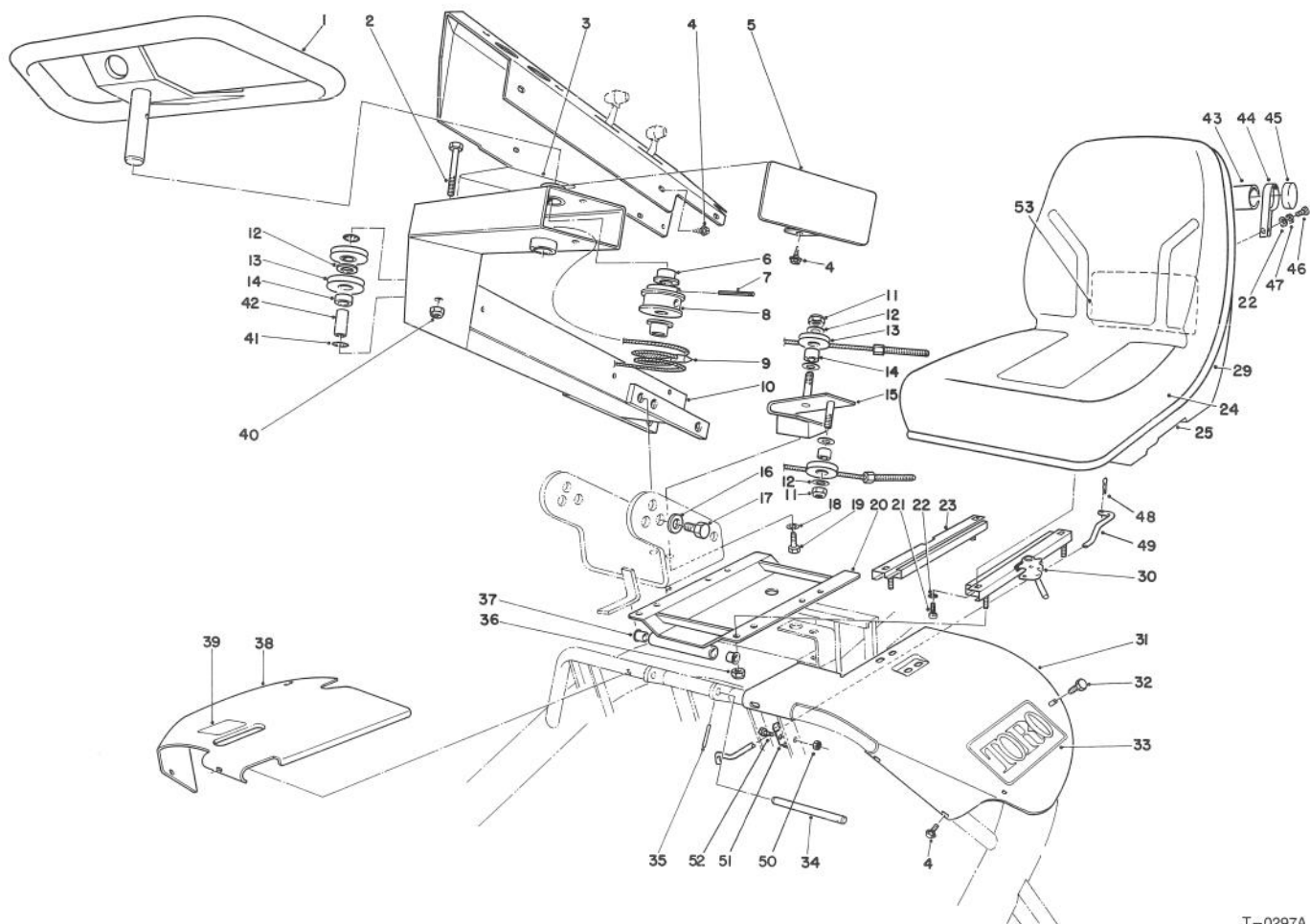
T-0217

REAR HYDRAULIC CYLINDER NO. 83-7000

Ref. No.	Part No.	Description	No. Used
1	237-78	O-Ring	2
2	43-5260	Barrel w/Clevis & Ports	1
3	32152-10	Nut	1
4		Uniring - Grooved	1
5	70-2780	Piston	1
6		O-Ring	1
7		PDF Ultrathane	1
8		O-Ring	1

Ref. No.	Part No.	Description	No. Used
9		Back-Up	1
10	70-2770	Head	1
11		Seal - Dust	1
12	43-5220	Ring - Retaining	1
13	43-5230	Shaft with Clevis	1
*	86-5360	Seal Repair Kit (Incl. Ref. #4, 6-9 & 11)	1

*Not Illustrated



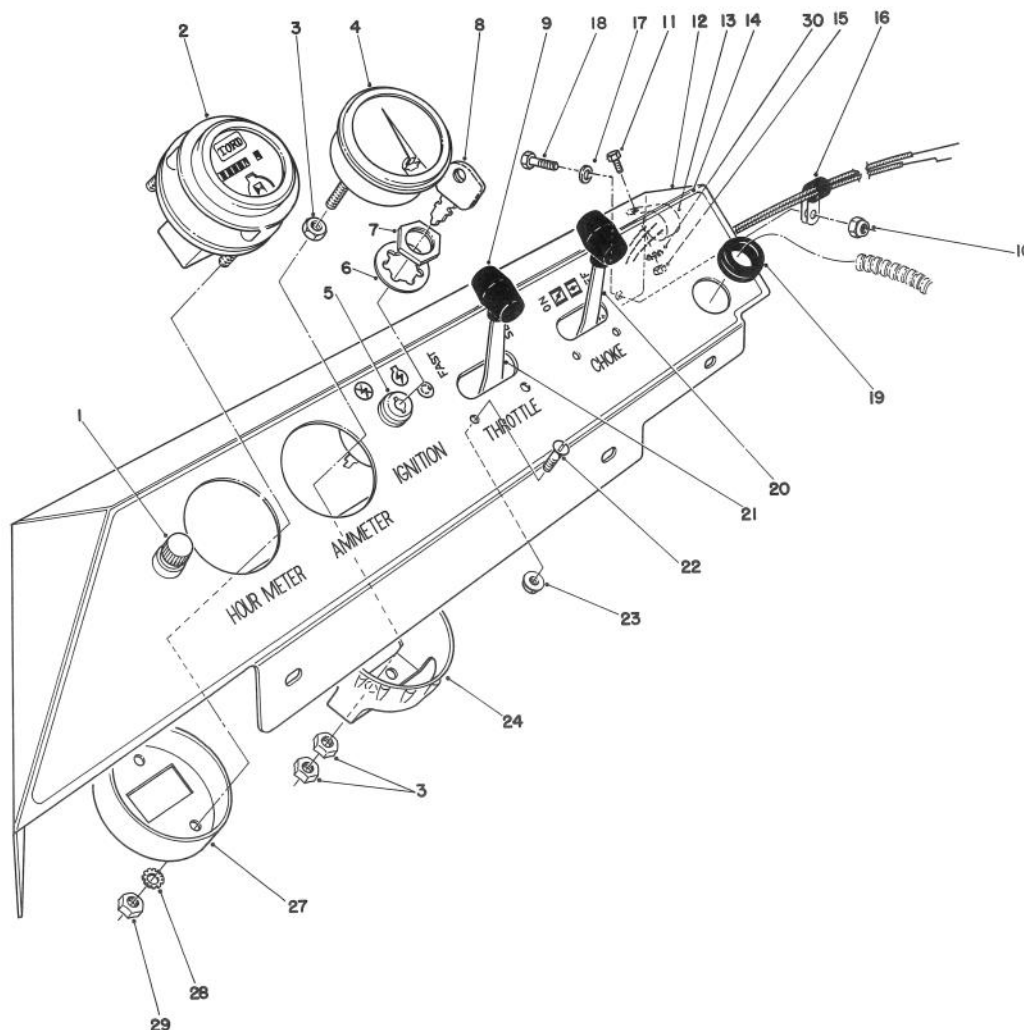
T-0297A

STEERING AND SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	49-5900	Steering Wheel Assembly	1
2	321-18	Screw - Cap, Hex Hd.	1
3	75-9380	Decal - Caution	1
4	32104-76	Screw - Tapping, Acorn Hd.	15
5	10-7370	Tube Cap	1
6	256-113	Bushing	2
7	32121-34	Pin - Roll	1
8	62-2160	Pulley - Front Steering	1
9	62-2180	Steering Cable	1
10	49-5910	Arm Steering	1
11	3296-39	Nut - Lock	2
12	3256-4	Washer - Flat	4
13	5-2653	Pulley Assembly (Incl. Ref. #14)	4
14	256-2	Bushing	4
15	49-5970	Bracket - Pulley	1
16	3256-26	Washer - Flat	4
17	325-3	Screw - Cap, Hex Hd.	4
18	3253-21	Washer - Lock	2
19	323-6	Screw - Cap, Hex Hd.	2
20	49-5840	Seat Support (Incl. Ref. #37)	1
21	3274-12	Screw - Hex Socket Hd.	4
22	3256-23	Washer - Flat	6
23	51-0780	Seat Slider	1
24	92-6533	Kit - Cushion	1
25	92-6534	Shell	1

Ref. No.	Part No.	Description	No. Used
29	351-78	Edging	2
*	92-1180	Seat Assembly (Incl. Ref. 24-25 & 29)	1
30	51-0790	Seat Adjuster	1
31	49-5460	Shield - Valve Cover L.H.	1
32	12-3270	Screw - Thread Forming	2
33	62-5550	Decal - Toro	2
34	49-5880	Shaft - Seat Support	1
35	32121-45	Pin - Roll	1
36	3296-29	Nut - Lock	4
37	256-155	Bushing	2
38	49-5470	Shield - Valve Cover R.H.	1
39	51-0010	Decal - Traction	1
40	3296-16	Nut - Lock	1
41	3290-314	Tinnerman Push-On	2
42	10-7240	Sleeve - Steering Pulley	1
43	65-5871	Tube	1
44	2412-102	R-Clamp	2
45	65-5890	Cap	2
46	322-3	Screw - Cap, Hex. Hd.	2
47	3253-4	Washer - Lock	2
48	3272-11	Pin - Cotter	1
49	68-5100	Rod - Seat	1
50	3296-16	Nut - Lock	1
51	68-5310	Clip Seat	1
52	321-3	Screw - Cap, Hex. Hd.	1
53	92-1195	Decal - Service	1

*Not Illustrated



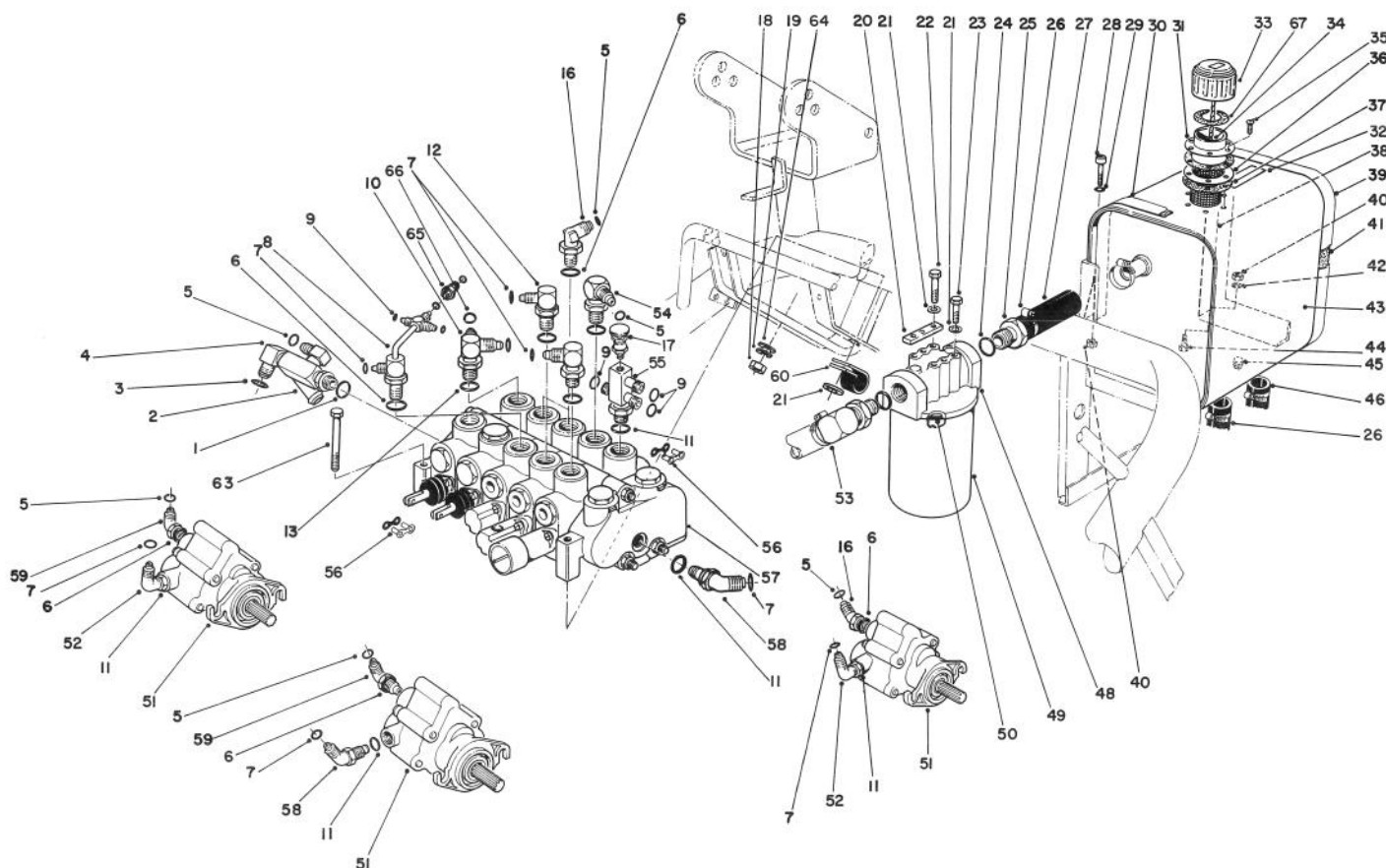
T-0298

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	218-489	Fuse Holder	1	15	32149-2	Nut - Lock, Keps	1
*†		30 Amp Fuse	1	16	2412-41	Clip	1
2	66-2950	Hour Meter Assembly (Incl. Ref. #27)	1	17	3253-23	Washer - Flat	1
3	3219-14	Nut	6	18	322-4	Screw - Cap, Hex. Hd.	1
4	83-0820	Ammeter Assembly (Incl. Ref. #24)	1	19	237-100	Grommet	1
5	23-0660	Key Switch (Incl. Ref. #6-7)	1	20	62-2130	Control - Choke (Incl. Ref. #9)	1
6	3254-5	Washer - Lock	1	21	68-9930	Control - Throttle (Incl. Ref. #9)	1
7	218-461	Nut - Hex	1	22	32105-8	Screw - Machine, Rd. Hd.	4
8	63-8360	Key	1	23	32149-7	Nut - Lock	1
9	233-50	Knob	2	24		Clamp - Ammeter	1
10	32128-20	Nut - Lock	1	25	3256-21	Washer - Flat	2
11	321-3	Screw - Cap, Hex. Hd.	1	27		Clamp - Hour Meter	1
12	68-9910	Panel - Control	1	28	3255-20	Washer - Lock ETLW	2
13	59-9810	Module	1	29	3217-25	Nut	2
14	68-9940	Decal - Control Panel	1	30	3255-7	Washer - Lock, Int. Tooth	1

*Not Illustrated

†Obtain Locally

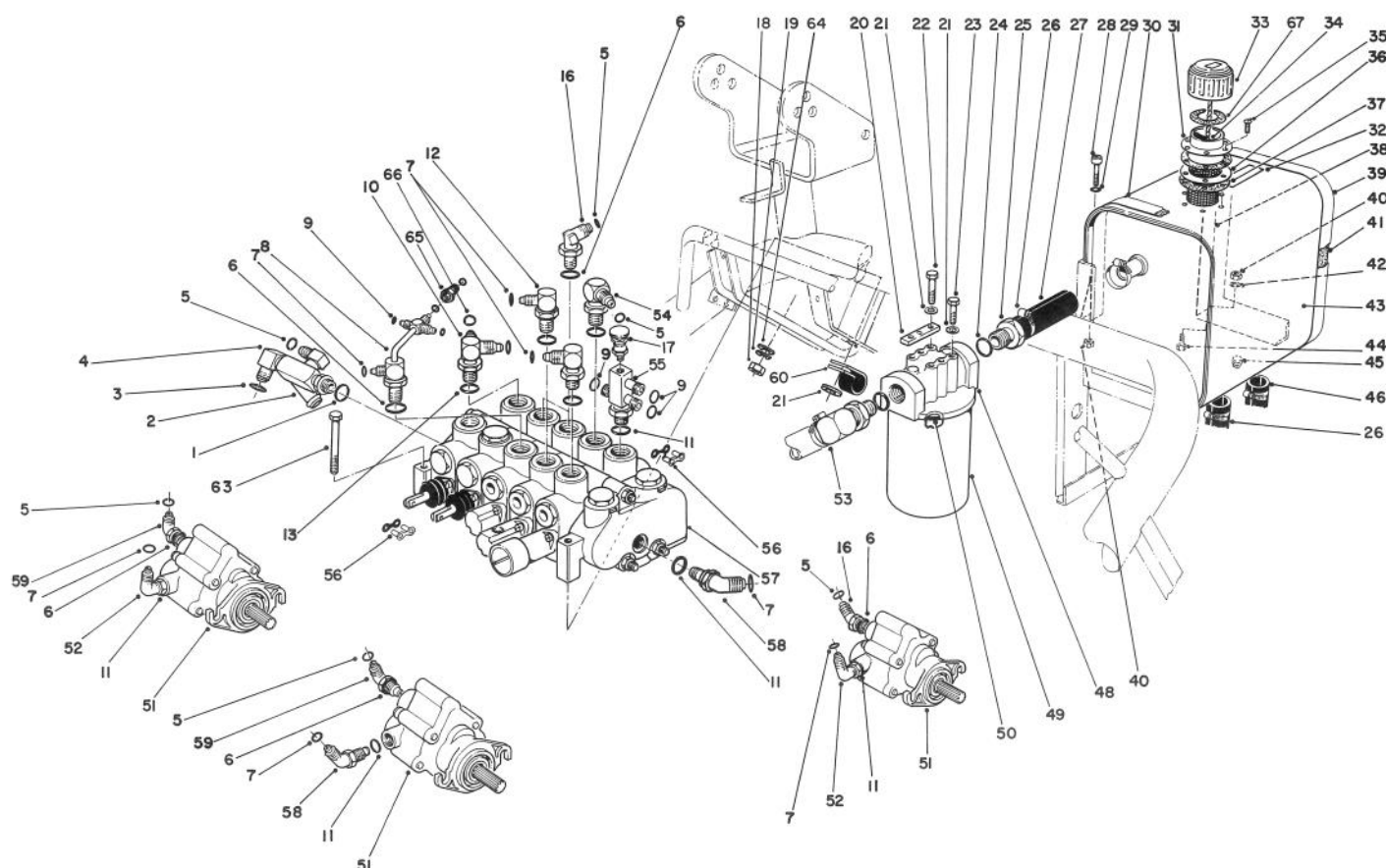


T-0299

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-81	O-Ring	1
2	63-4080	Manifold Drain Orifice	1
3	237-58	O-Ring	A/R
4	340-16	90° Fitting	1
5	237-30	O-Ring	A/R
6	237-79	O-Ring	8
7	237-22	O-Ring	A/R
8	63-4060	Brazed Tube Assembly	1
9	237-21	O-Ring	7
10	63-4050	Fitting Traction Upper	2
11	237-42	O-Ring	A/R
12	340-18	90° Elbow	1
13	237-80	O-Ring	2
16	340-101	45° Fitting	3
17	92-0588	Bushing - Needle	1
18	32128-20	Nut - Hex	3
19	3253-4	Washer - Lock	3
20	27-2380	Spacer - Filler Mount	1
21	3256-23	Washer - Flat	5
22	322-4	Screw - Cap, Hex Hd.	2
23	322-2	Screw - Cap, Hex Hd.	2
24	237-101	O-Ring	1
25	353-563	Fitting - Straight	1
26	2412-3	Clamp - Hose	8
27	27-2040	Hose	1
28	3274-54	Screw - Set, Socket Hd.	2

Ref. No.	Part No.	Description	No. Used
29	3256-22	Washer - Flat	2
30	27-7980	Front Reservoir Strap Assy. (Incl. Ref. #41)	1
31	353-961	Flange Adaptor	1
32	58-6530	Decal - Oil	1
33	62-2570	Breather Cap (Incl. Ref. #31, 34 & 36-37)	1
34	353-962	Cap and Chain Assembly	1
35	32144-34	Screw	6
36	62-2610	Screen Assembly	1
37	353-963	Gasket	2
38	27-2420	Felt Strap - Angle	2
39	27-2400	Reservoir Strap Assembly (Incl. Ref. #41)	1
40	3296-16	Nut-Hex	4
41	27-2420	Felt Strip	2
42	3253-3	Washer - Lock	2
43	55-8480	Tank - Hydraulic	1
44	321-3	Screw - Cap, Hex Hd.	2
45	281-1	Plug - Oil	1
46	27-3040	Hose - Pump	2
48	44-5560	Filter Head - Hydraulic	1
49	74-3570	Filter Element (Incl. Ref. #50)	1
50	72-3850	Seal - Ring	1

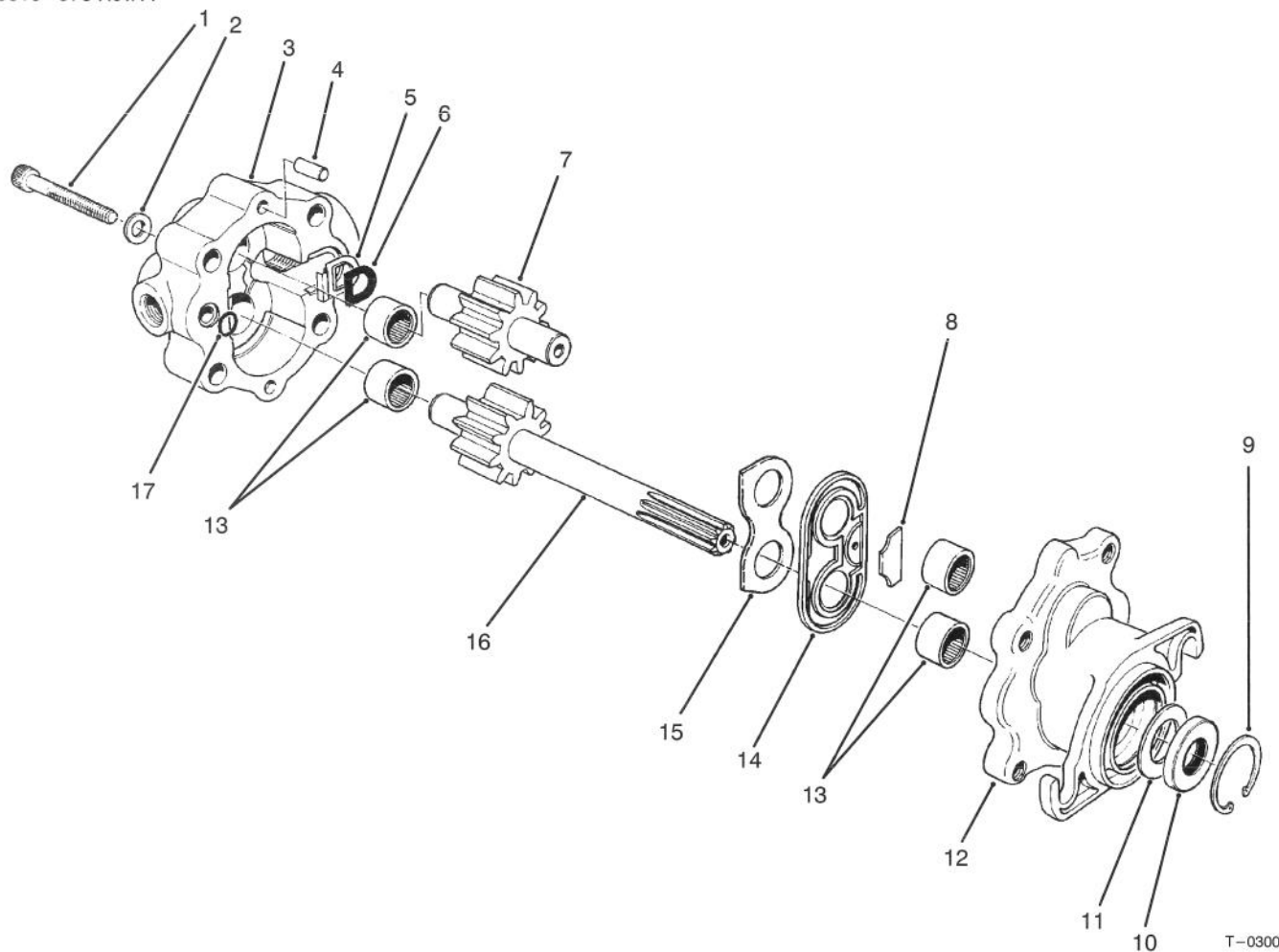


T-0299

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
51	70-9800	Reel Motor	3	60	304-61	Clamp	1
52	340-77	90° Elbow	3	63	322-14	Screw - Cap, Hex Hd.	3
53	353-564	90° Fitting	1	64	3254-2	Washer - Lock, Int. Tooth	1
54	63-4090	90° Fitting - Extended	1	65	71-0990	Fitting - One Way Orifice	1
55	92-0587	Fitting - Hydraulic Valve (Incl. Ref. #9 & 11)	1	66	237-65	O-Ring	4
56	57-6220	Link Connector	5	67	76-1720	Gasket - Filler Cap	1
57	84-2203	Control Valve	1	*	88-9500	Needle Valve Assembly (Incl. Ref. #9, 11, 17 & 55)	1
58	340-87	45° Fitting	2	*	44-2500	Hydraulic Oil Dye	1
59	340-98	90° Elbow	2				

*Not Illustrated

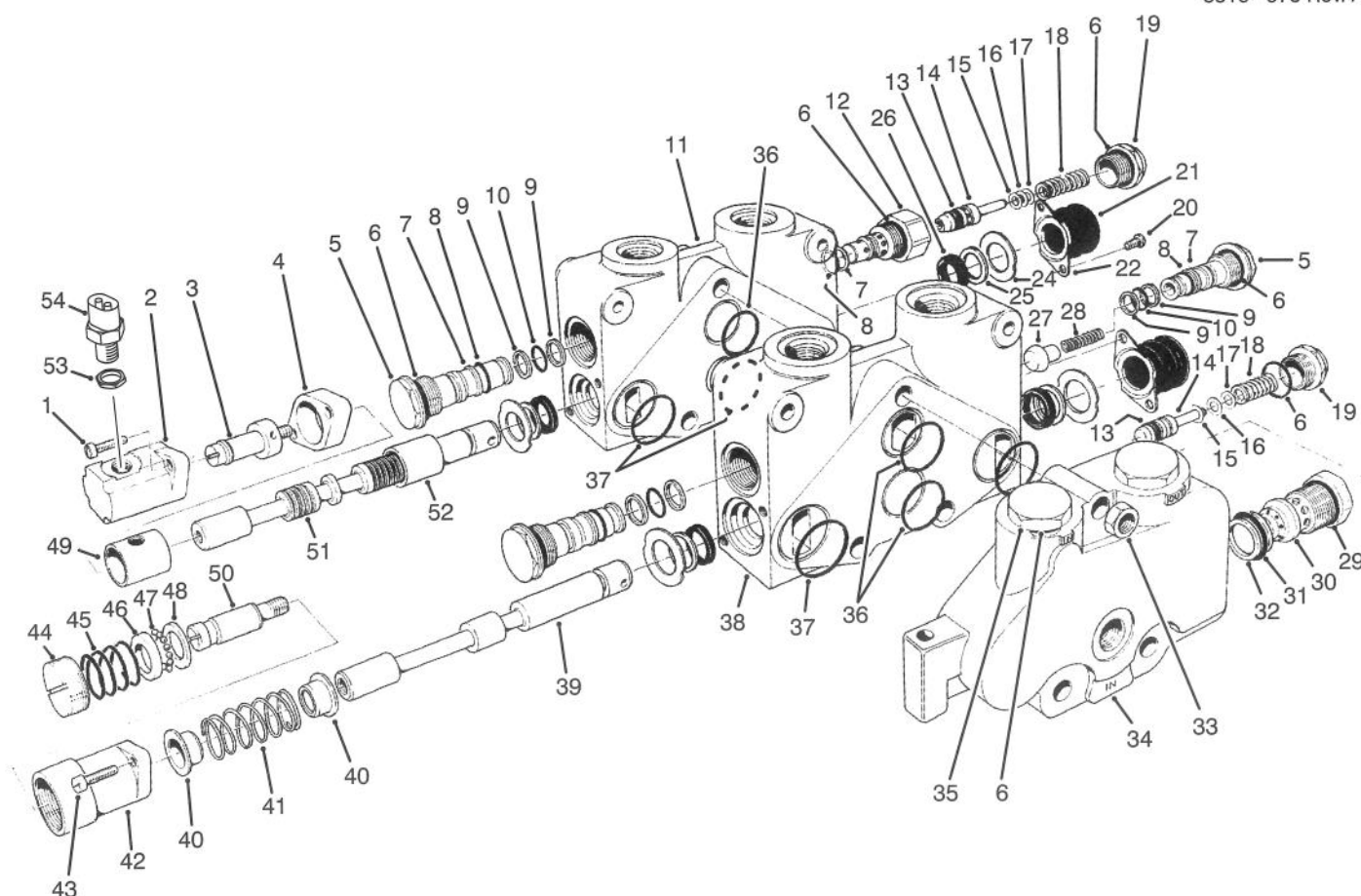


T-0300

REEL MOTOR NO. 70-9800

Ref. No.	Part No.	Description	No. Used
1	353-601	Screw - Hex Socket Hd.	4
2	353-600	Washer	4
3	353-588	Cover - Motor	1
4	353-599	Pin - Dowel	2
5	353-597	Bridging - Insert	1
6	353-598	Gasket - Insert	1
7	353-593	Idler Gear Assembly	1
8	353-591	Block - Anti-Extrusion	1
9	32151-41	Ring - Retaining	1
10		Seal - Shaft	1
11		Spacer	1
12	353-777	Body - Motor	1

Ref. No.	Part No.	Description	No. Used
13	353-586	Bearing - Needle	4
14	353-594	Seal Assembly	1
15	353-595	Wear Plate	1
16	353-592	Drive Shaft Assembly	1
17	353-596	O-Ring	1
18	72-4380	Seal Kit (Incl. Ref. #9-11)	1
19	72-4390	Repair Kit (Incl. Ref. #5, 6, 8-11, 14, 15 & 17)	

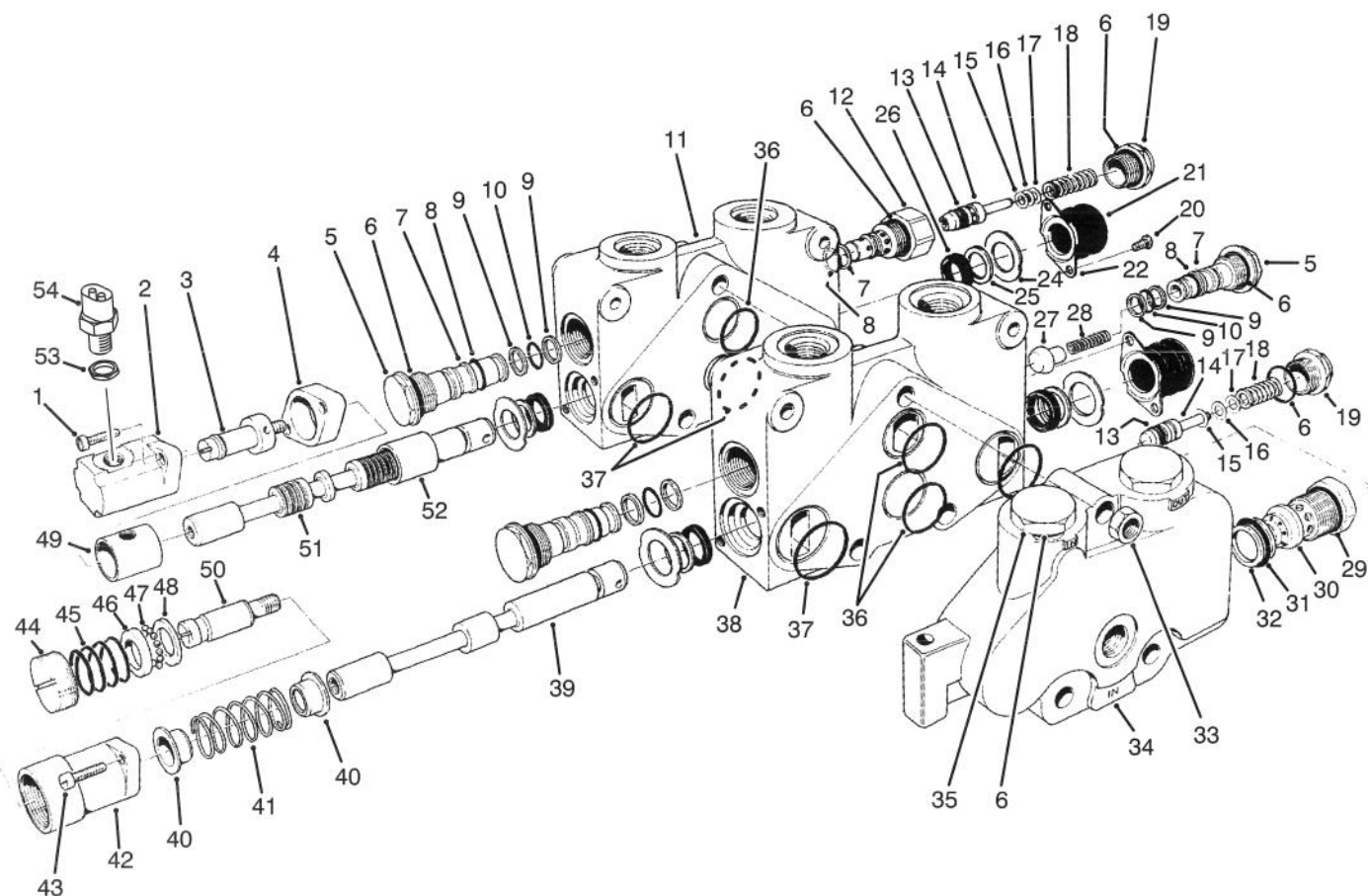


T-1318A

CONTROL VALVE ASSY. NO. 84-2203 (Sections 1 & 2)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3274-70	Screw - Hex, Socket Hd.	2	25	92-2546	Wiper - Seal	4
2	353-727	Bonnet	1	26	353-957	Seal - Lip	4
3	353-729	Spud - Detent	1	27	353-301	Poppet	1
4	353-733	Spacer - Bonnet	1	28	353-304	Spring	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3	29	353-331	O-Ring	1
6	237-54	O-Ring	8	30	353-760	Body Relief	1
7	353-306	Ring - Backup	4	31	353-758	Seal - O-Ring	1
8	353-305	O-Ring	4	32	353-952	Ring - Backup	1
9	353-303	Ring - Backup	6	33	3217-7	Nut - Hex	3
10	353-302	O-Ring	3	34	353-772	Left End Cover	1
11		Housing V20T	1	35	353-721	Plug (Incl. Ref. #6)	2
12	353-851	Body - Relief CP-RC Mod.	1	†36		O-Ring	3
13	353-392	Seal - Relief Poppet PTFE	2	†37		O-Ring	4
14	353-531	Poppet Assy. (Incl. Ref. #13)	2	†38		Housing Section #1	1
15	353-328	Washer - Shim	A/R	†39		Spool V20 SPL	1
16	353-329	Washer - Shim	A/R	40	353-417	Collar Spring	2
17	353-330	Washer - Shim	A/R	41	92-3048	Spring - Centering	1
18	353-855	Spring	2	42	353-754	Bonnet - R. Detent	1
19	353-334	Cap - Relief	2	43	3274-15	Screw - Fillister Hd.	2
20	3274-52	Screw - Hex, Socket Hd.	4	44	353-763	Cap - Adjustment	1
21	353-575	Boot - Dust Cap	2	45	353-579	Spring	1
22	93-3651	Retainer - Boot	2	46	42-2680	Race R. Detent	1
24	92-2547	Plate - Seal Retainer	4	47	52-5880	Ball - Steel	12
				48	354-29	Plate - Thrust	1

†Parts Available as Assemblies Listed as (*Not Illustrated) on Following Page



T-1318A

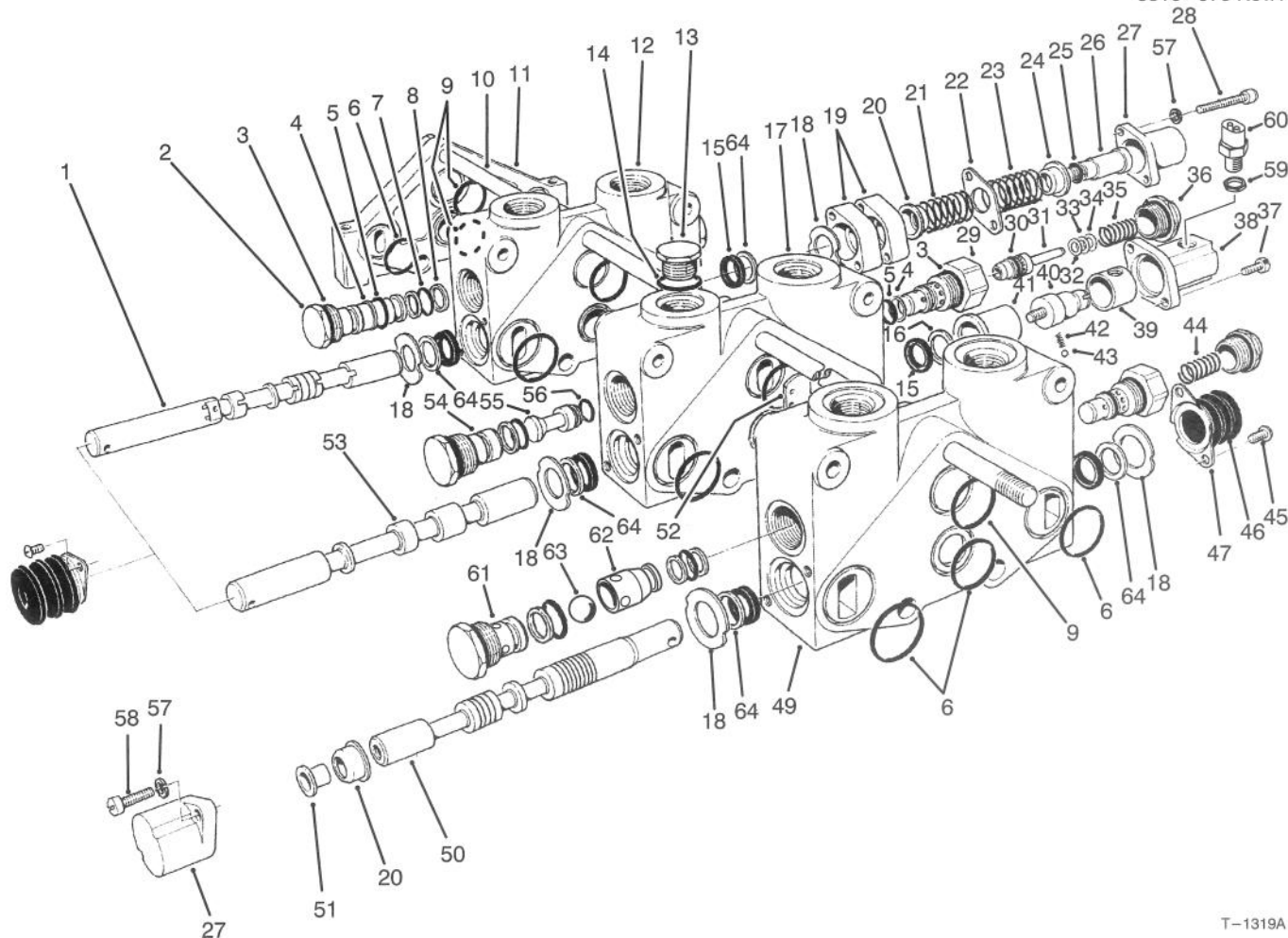
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
49	353-728	Sleeve	1
50	353-762	Spud - Detent Out (Incl. Ref. #44)	1
†51		Spool V20 3 Way F.F.	1
52	353-732	Sleeve - Detent	1
53	38-0410	Nut - Hex.	1
54	83-1890	Switch - Ball	1
*	353-766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13-19, & 29-32)	1
*	353-768	Section #1 Complete	1
*	353-837	Section #2 Complete	1
*	353-780	Positioner - R. Detent (Out) (Incl. Ref. #3 & 40-49)	1

Ref. No.	Part No.	Description	No. Used
*	353-839	Positioner - DI (SPL) Assy. (Incl. Ref. #1, 3-5, 50 & 52)	1
*	353-642	Relief - RC Mod. (Incl. Ref. #6-8 & 12-19)	2
*	92-2545	Seals - Spool (Entire Valve Set)	1
*	353-835	Seals - Section Set (Incl. Ref. #36 & 37)	1
*	92-2548	Seal - Spool (Single End Set) (Incl. Ref. #24-26)	1
*	93-3652	Boot - Spool Assembly (Incl. Ref. #20-22)	2

*Not Illustrated

†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



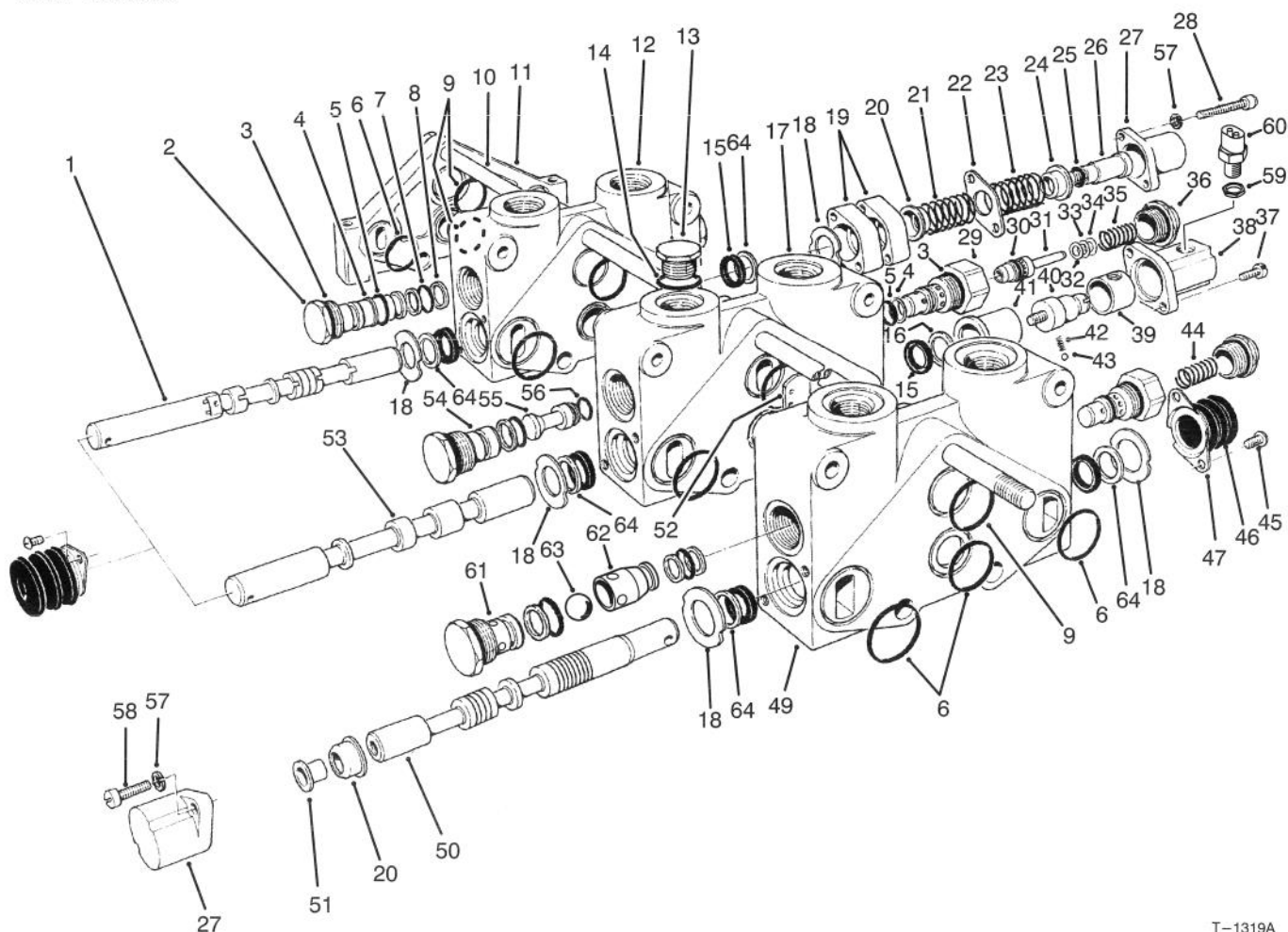
T-1319A

CONTROL VALVE ASSY. NO. 84-2203 (Sections 3 Thru 5)

Ref. No.	Part No.	Description	No. Used
†1		Spool #5	1
2	353-481	Plug - Load Check (Incl. Ref. #3-5 & 7-8)	2
3	237-54	O-Ring	6
4	353-306	Ring - Backup	5
5	353-305	O-Ring	5
†6		O-Ring	11
7	353-302	O-Ring	3
8	353-303	Ring - Backup	6
†9		O-Ring	5
10	353-853	Bolt - Hex Hd.	3
11	353-668	Plate - Cap, Cover RH	1
12		Housing V20 #5	1
13	353-550	Plug Assembly (Incl. Ref. #14)	1
14	353-848	O-Ring	1
15	353-957	Seal - Lip	6
16	353-958	Ring - Backup	1
†17		Housing V20 #4	1
18	92-2547	Plate - Seal Retainer	6
19	353-733	Spacer - Bonnet	2
20	353-417	Collar Spring	2
21	353-831	Spring	1
22	353-529	Plate Seal	1
23	92-3148	Spring	1

Ref. No.	Part No.	Description	No. Used
24	353-808	Collar - Spring	1
25	353-830	O-Ring	1
26	353-829	Collar Spool	1
27	354-26	Bonnet	2
28	354-28	Screw - Hex, Socket Hd.	2
29	353-851	Body - Relief CP-RC Mod.	2
30	353-392	Seal - Relief Poppet PTFE	2
31	353-531	Poppet Assembly (Incl. Ref. #30)	2
32	353-328	Washer - Shim	A/R
33	353-329	Washer - Shim	A/R
34	353-330	Washer - Shim	A/R
35	353-398	Spring	1
36	353-334	Cap - Relief	2
37	52-5900	Screw - Fillister Hd.	4
38	353-847	Bonnet (SPL)	1
39	353-849	Sleeve	1
40	353-846	Spud - DI (SPL)	1
41	353-845	Sleeve - Detent	1
42	353-730	Spring	1
43	353-731	Ball	1
44	353-855	Spring	1
45	3274-52	Screw - Hex, Socket Hd.	6
46	353-575	Boot - Dust Cap	3
47	93-3651	Retainer - Boot	3

†Parts Available as Assemblies Listed as (*Not Illustrated) on Following Page



T-1319A

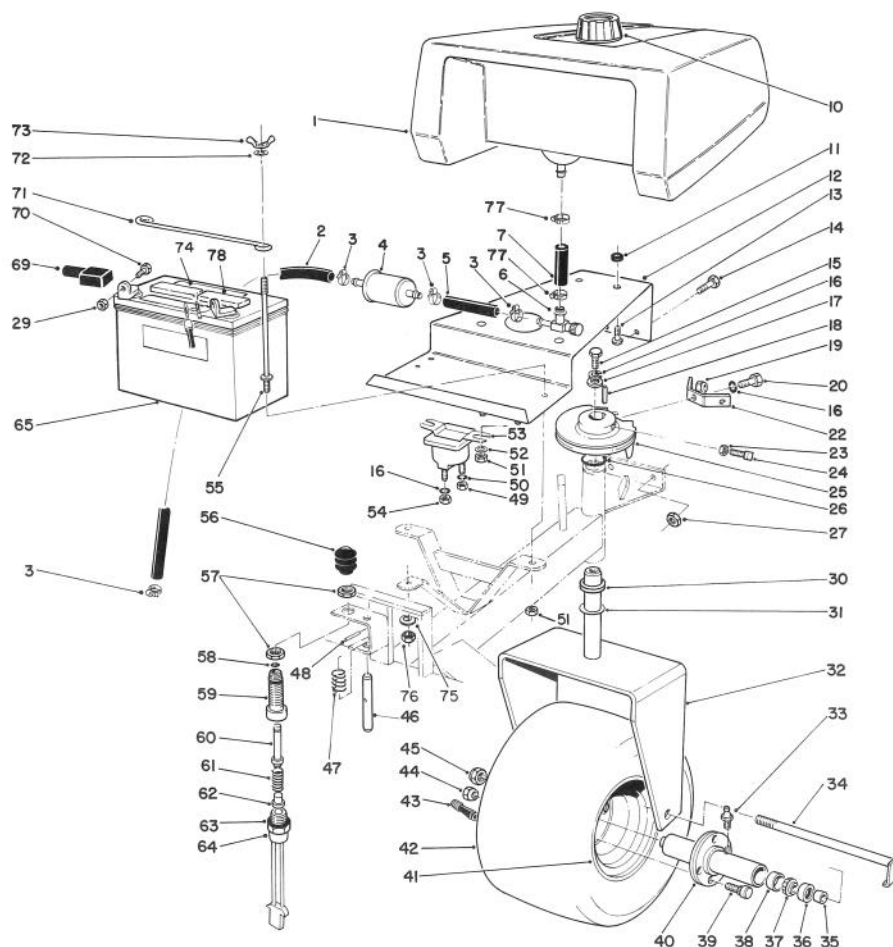
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1
51	52-5860	Collar - Spool	1
52	354-122	Disc - Seal	1
†53		Spool #4	1
54	353-953	Plug Assembly	1
55	353-844	Plug Series (Incl. Ref. #56)	1
56	353-850	O-Ring	1
57	3253-3	Washer - Lock	4
58	3274-84	Screw - Cap, Hex. Hd.	4
59	38-0410	Nut - Hex.	1
60	83-1890	Switch - Ball	1
61	353-483	Body - Anticavitation	1
62	353-484	Retainer - Ball	1
63	353-737	Ball	1
64	92-2546	Wiper - Seal	5
*	354-129	Anticavitation Check Assy. (Incl. Ref. #3-5, 7-8 & 61-63)	1
*	353-835	Seals - Section Set (Incl. Ref. #6 & 9)	1
*	93-3652	Boot - Spool Assembly (Incl. Ref. #45-48)	3

Ref. No.	Part No.	Description	No. Used
*	354-131	Section #3 Assembly (Complete)	1
*	354-25	Section #4 Assembly (Complete)	1
*	93-1386	Section #5 Assembly (Complete)	1
*	353-841	Position - Spool Assembly (Incl. Ref. #20 27 37 & 51)	1
*	353-840	Position - DI (SP) Assy. (Incl. Ref. #37-43)	1
*	353-642	Relief - RC Mod. Assembly (Incl. Ref. #3-5 & 29-36)	1
*	353-833	Positioner Assembly (Incl. Ref. #19-28)	1
*	84-2203	Control Valve Assembly Complete	1
*	92-2548	Seal - Spool (Single End Set) (Incl. Ref. #15, 16 & 18)	1
*	92-2549	Seals - End Set #4 Only (Incl. Ref. #15-16 & 18)	1
*	92-2545	Seals - Spool (Entire Valve Set)	1

*Not Illustrated

†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page

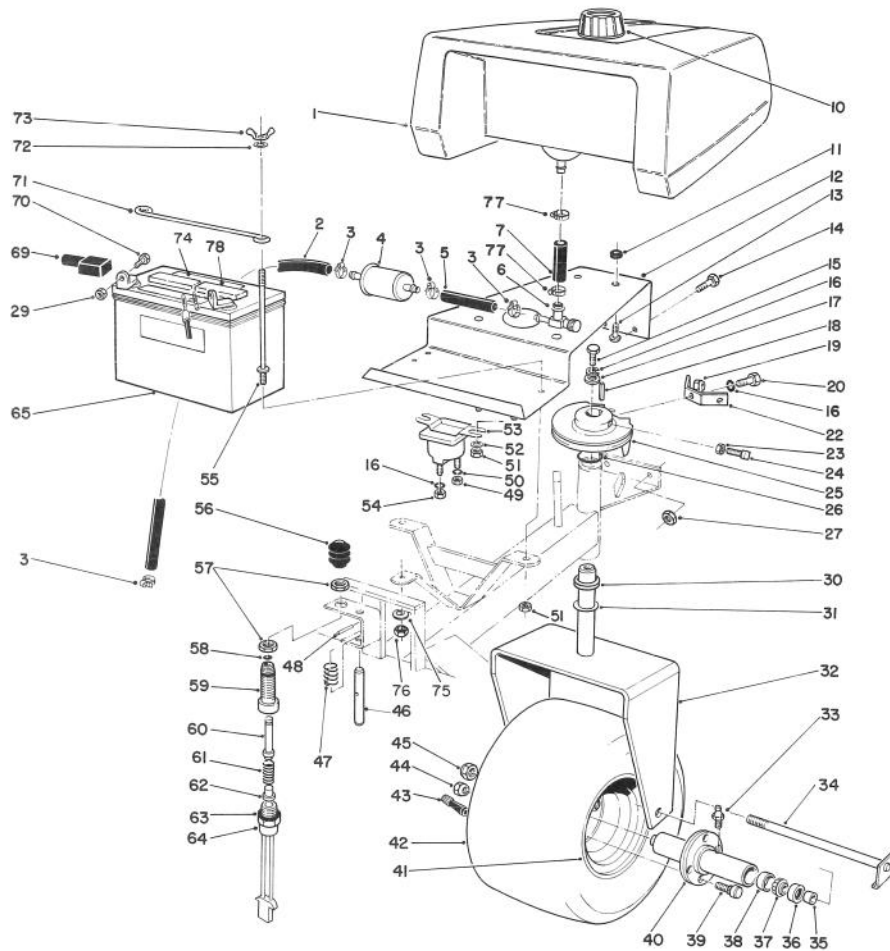


T-0303

GAS TANK BATTERY AND CASTER WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	74-3580	Gas Tank	1
2	62-2470	Hose - Gas Line (Long)	1
3	2412-108	Clamp - Hose	4
4	18-1520	Fuel Filter	1
5	56-2240	Hose - Gas Line (Short)	1
6	56-2520	Fitting - Fuel Shut-off	1
7	56-2230	Hose - Fuel Line	1
10	55-3570	Gas Cap	1
11	237-136	Grommet	4
12	62-2210	Tank Base	1
13	3250-36	Screw - Phil. Hd.	4
14	323-6	Screw - Cap, Hex Hd.	2
15	322-3	Screw - Cap, Hex Hd.	1
16	3253-4	Washer - Lock	4
17	62-2190	Washer - Special	1
18	5-0698	Key	1
19	3296-4	Nut - Lock	2
20	322-5	Screw - Cap, Hex Hd.	1
22	3-8516	Anchor - Cable	1
23	3218-2	Nut - Jam	2
24	3242-9	Screw - Set, Sq. Hd.	2
25	61-9390	Drum - Steering	1
26	237-149	O-Ring - Seal	1
27	3296-39	Nut - Lock	2
29	3217-5	Nut - Hex	2
30	237-148	Seal - Quad Ring	1

Ref. No.	Part No.	Description	No. Used
31	62-2170	Washer - Thrust	1
32	62-2220	Caster Fork	1
33	302-5	Fitting - Grease	1
34	5-3934	Bolt	1
35	74-3730	Spacer	2
36	253-111	Seal	2
37	254-78	Cone	2
38	254-79	Cup	2
39	10-6830	Drive Stud	4
40	75-9440	Hub Assembly	1
41	217-60	Rim	1
42	28-3680	Tire	1
43	232-24	Valve Stem - With Cap	1
44	242-50	Nut - Wheel	4
45	3296-50	Nut - Lock	1
46	51-0350	Pin - Seat Spring	1
47	3-6685	Spring	1
48	3284-3	Pin Groove	1
49	3219-14	Nut - Hex	2
50	3254-1	Washer - Lock	2
51	32149-2	Nut - Lock	2
52	3256-22	Washer - Flat	2
53	28-4210	Solenoid	1
54	3218-13	Nut - Jam	2
55	10-8120	Bolt - Battery	2
56	43-8870	Boot - Switch	1

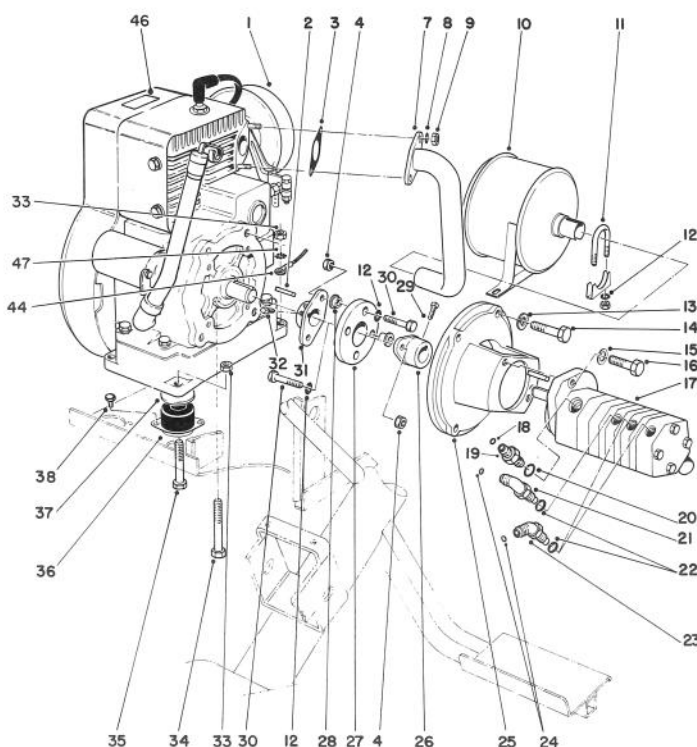
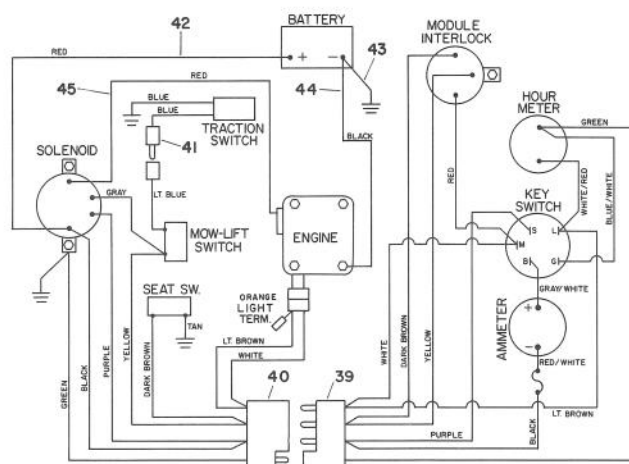


T-0303

GAS TANK BATTERY & CASTER WHEEL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
57	218-461	Nut - Jam	2	71	72-4790	Hold Down - Battery	1
58	237-7	O-Ring	1	72	3256-22	Washer - Flat	2
59	43-8620	Guide - Switch Pin	1	73	32103-12	Nut - Wing	2
60	43-8860	Plunger - Switch	1	74	92-1707	Cap - Battery (Poison)	1
61	43-8600	Spring - Compression	1	75	3256-23	Washer - Flat	1
62	43-8610	Guide - Spring & Ball Seat	1	76	3296-29	Nut - Lock	1
63	237-30	O-Ring	1	77	2412-36	Clamp - Gas Line	2
64	72-4320	Switch - Neutral	1	78	92-1699	Cap - Battery (Flush)	1
65	28-1400	Battery	1	*	43-9071	Switch Assembly (Incl. Ref. #56-64)	1
69	28-8080	Boot Terminal	1				
70	321-3	Screw - Cap, Hex Hd.	2				

*Not Illustrated



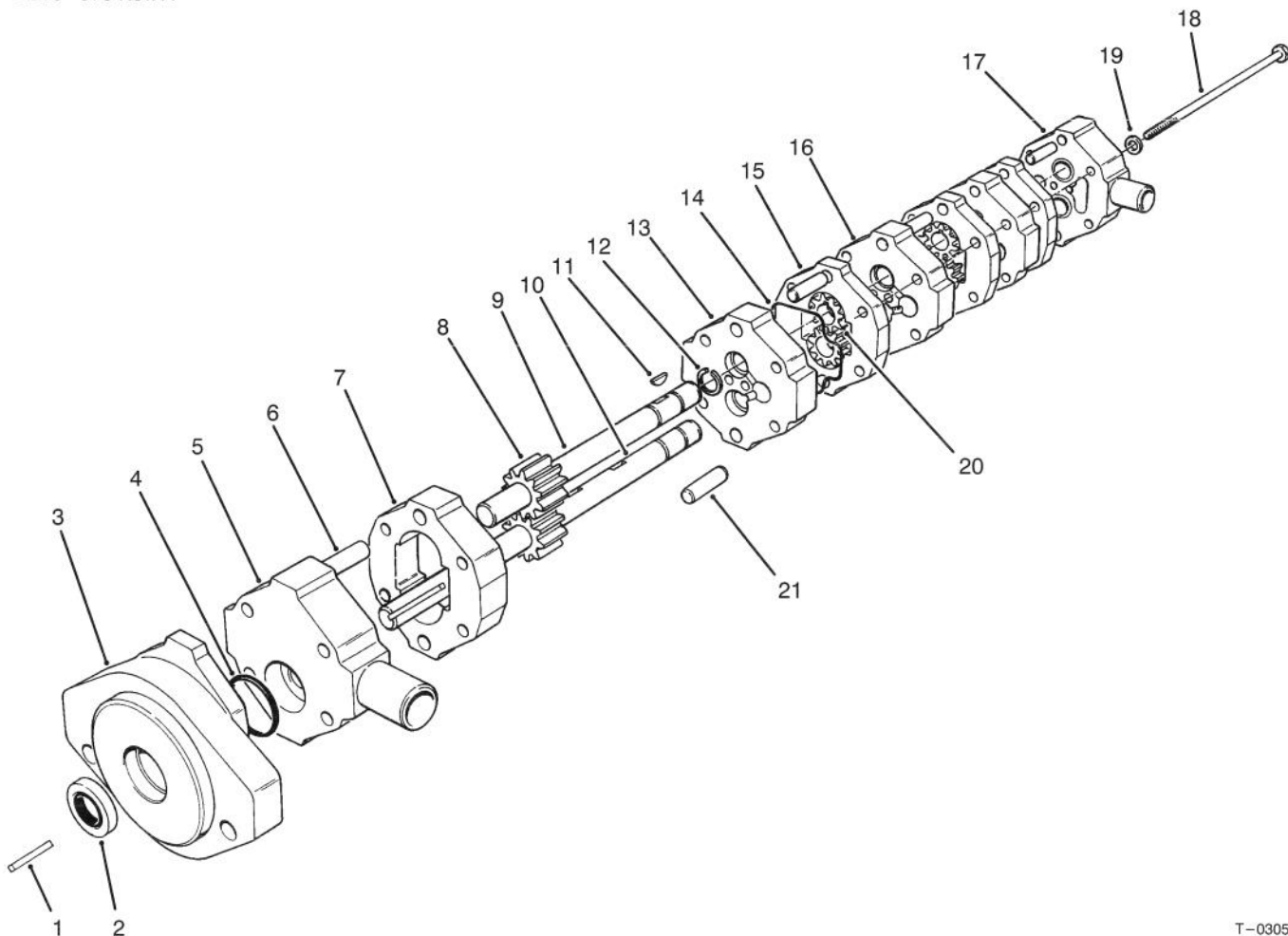
T-0304

ENGINE AND WIRING DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	12-7189	Engine	1
2	10-7070	Key - Engine	1
3	82-5570	Gasket - Exhaust	1
4	3296-29	Nut - Lock	4
7	62-2270	Exhaust Pipe	1
8	3253-4	Washer - Lock	2
9	3217-6	Nut - Hex	2
10	62-2110	Muffler Assembly	1
*	62-2780	Spark Arrestor Muffler (Optional)	1
11	2412-76	Muffler Clamp Assembly	1
12	3256-23	Washer - Flat	6
13	3253-6	Washer - Lock	4
14	324-6	Screw - Cap, Hex Hd.	4
15	3253-21	Washer - Lock	2
16	323-8	Screw - Cap, Hex Hd.	2
17	62-2300	Traction Pump Assembly	1
18	237-30	O-Ring	1
19	340-6	Fitting - Straight	1
20	237-79	O-Ring	1
21	340-77	90° Fitting	1
22	237-42	O-Ring	3
23	340-87	45° Fitting	2
24	237-22	O-Ring	2

Ref. No.	Part No.	Description	No. Used
25	27-1930	Pump Mount	1
26	27-1970	Coupling - Pump	1
27	44-2230	Coupling - Rubber	1
28	27-6600	Spacer - Rubber	4
29	3241-6	Screw - Set, Sq. Hd.	2
30	322-6	Screw - Cap, Hex Hd.	4
31	27-1960	Coupling - Engine	1
32	3241-2	Screw - Set, Sq. Hd.	2
33	3296-39	Nut - Lock	4
34	323-15	Screw - Cap, Hex Hd.	1
35	323-20	Screw - Cap, Hex Hd.	3
36	27-2150	Mounting Pad - Engine	4
37	63-7400	Washer - Flat	4
38	32144-1	Screw - Thread Forming	8
39	62-2350	Wire Harness - Column	1
40	88-9690	Wire Harness - Frame	1
41	88-9680	Wire Harness - Traction	1
42	10-7130	Wire - Solenoid to Battery	1
43	28-2120	Wire - Battery to Ground	1
44	27-3070	Wire - Battery to Engine	1
45	62-2630	Wire Assembly	1
46	71-3620	Decal - Engine	1
47	3254-6	Washer - Lock	1

*Not Illustrated

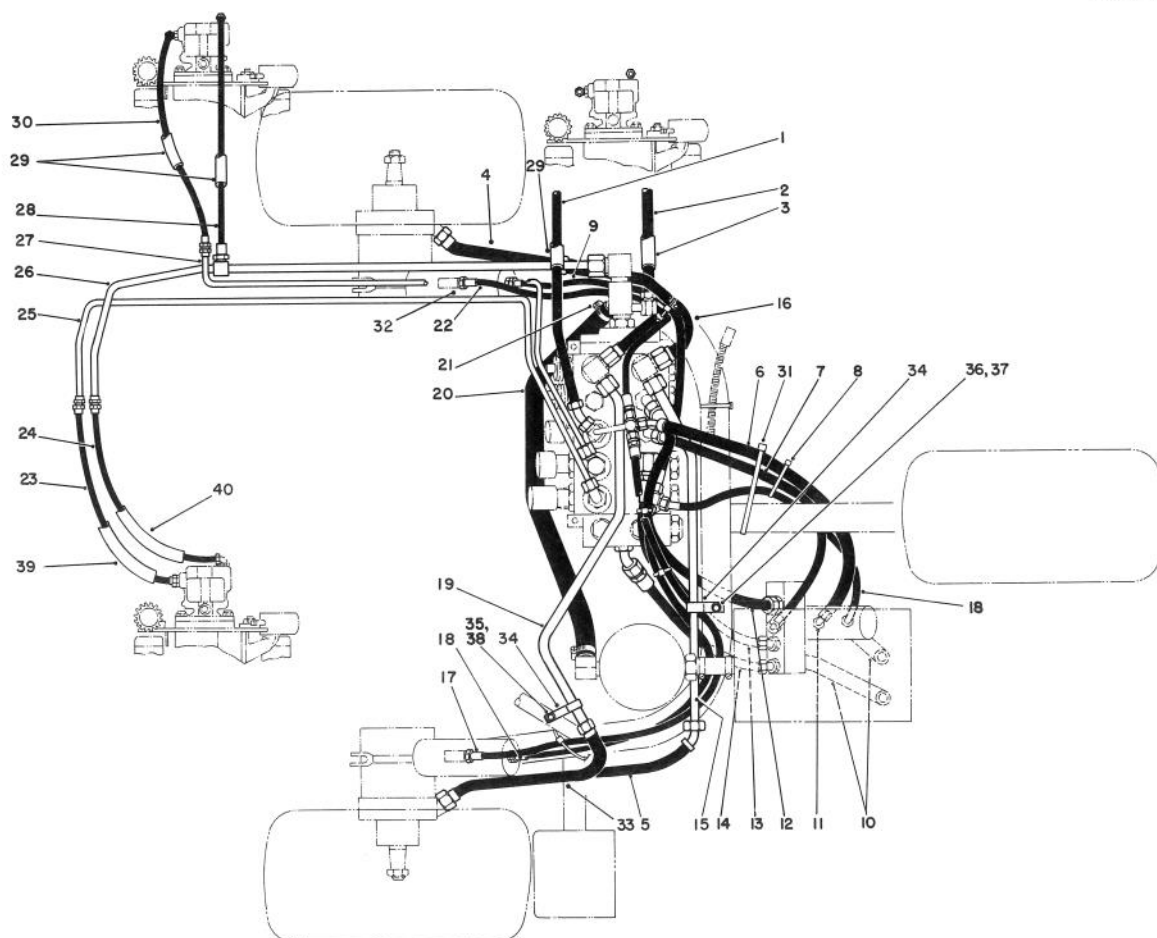


T-0305

TRACTION PUMP NO. 62-2300

Ref. No.	Part No.	Description	No. Used
1	5-0946	Key - Square	1
2	353-931	Seal - Oil	1
3	353-916	Flange Assembly	1
4	353-917	O-Ring	1
5	353-918	Body Assembly	1
6	353-970	Dowel	2
7	353-971	Gear Plate - Pump	1
8	353-964	Gear - 66B	2
9	353-965	Idler Shaft Assembly	1
10	353-972	Shaft - Drive	1
11	353-884	Key - Woodruff	4

Ref. No.	Part No.	Description	No. Used
12	353-886	Ring - Retaining	2
13	353-921	Plate Assembly	1
14	353-922	Seal Ring - Pump	8
15	353-969	Gear Plate - 30B	3
16	353-923	Plate Assembly	2
17	353-927	Cover Assembly	1
18	353-966	Screw - Cap, Hex Hd.	4
19	353-600	Washer - Flat	4
20	353-967	Gear - 33B	5
21	353-968	Dowel	6



T-0306A

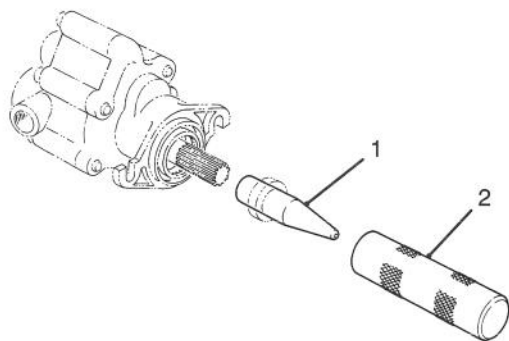
HYDRAULIC SYSTEMS DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	74-3830	Hose - Pressure, Rear (Incl. Ref. #29)	1
2	63-3840	Hose - Return, Rear (Incl. Ref. #3)	1
3	56-7981	Splash Shield	1
4	70-8600	Traction Hose - Upper R.H.	1
5	70-7150	Traction Hose - Lower L.H.	1
6	63-3930	Hose Cylinder - Drop, Rear	1
7	63-3900	Hose - Pump #3	1
8	3290-379	Tie - Cable	6
9	63-3880	Hose - Cylinder, Lift R.H.	1
10	27-3040	Hose - Pump/Inlet	2
11	340-103	45° Elbow Adjustable	1
12	63-3940	Hose - Pump #4	1
13	63-3910	Hose - Pump #2	1
14	63-3920	Hose - Pump #1	1
15	83-1200	Tube - Traction Lower L.H.	1
16	83-2460	Hose - Traction Lower R.H.	1
17	63-3850	Hose - Cylinder - Drop L.H.	1
18	63-3890	Hose - Cylinder - Lift L.H.	1
19	70-7130	Traction Line - Upper L.H.	1
20	68-5880	Return Line - Man. to Filter	1
21	2412-3	Clamp - Hose	2
22	63-3950	Hose - Cylinder - Drop L.H.	1

Ref. No.	Part No.	Description	No. Used
23	63-3870	Hose - Pressure L.H. (Incl. Ref. #39)	1
24	63-3830	Hose - Return L.H. (Incl. Ref. #40)	1
25	63-4020	Pressure Line Cutting Unit L.H.	1
26	63-4040	Return Line - R.H.	1
27	63-4030	Pressure Line Cutting Unit R.H.	1
28	63-3820	Hose - Return R.H. (Incl. Ref. #29)	1
29	56-7980	Splash Shield	3
30	63-3810	Hose - Pressure R.H. (Incl. Ref. #29)	1
31	3333-975	Cable Tie	1
32	340-92	Fitting - Orifice Str.	1
33	70-8610	Hose - Traction, Upper L.H.	1
34	2412-41	R-Clamp	3
35	12-3270	Screw - Cap, Hex. Hd.	3
36	321-3	Screw - Cap, Hex. Hd.	1
37	3296-16	Nut - Lock	1
38	3256-22	Washer - Flat	1
39	56-7981	Sleeve - Protective	1
40	56-7981	Sleeve - Protective	1

SPECIAL TOOLS

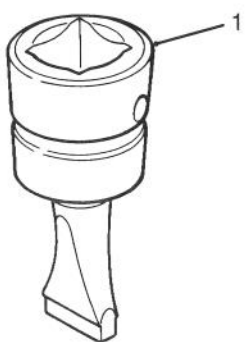
REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

Ref. No.	Part No.	Description	No. Used
1	TOR491430	Protector – Seal	1
2	TOR491450	Installer – Seal	1

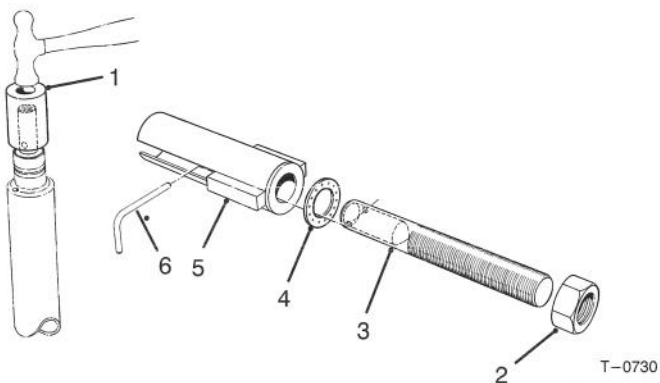
BED KNIFE SCREW TOOL NO. TOR510880



T-0729

Ref. No.	Part No.	Description	No. Used
1		Tool – Bed Knife Screw	1

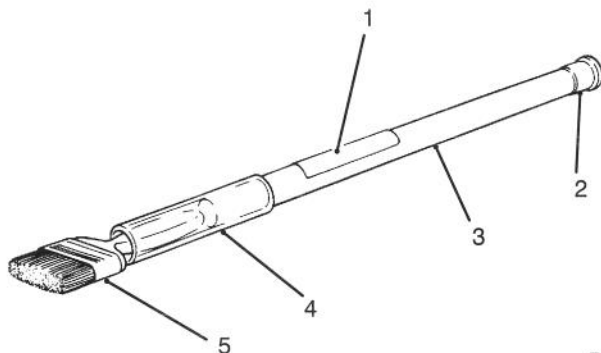
BEARING REPLACEMENT TOOL KIT NO. TOR238900



T-0730

Ref. No.	Part No.	Description	No. Used
1	23-8880	Driver – Bearing	2
2	3219-18	Nut – Hex.	1
3	23-8840	Puller – Bolt	1
4	22-6090	Washer – Thrust	1
5	23-8850	Tube – Support	1
6	23-8860	Pin – Bearing Rplcmnt.	1

BACKLAPPING BRUSH ASSEMBLY NO. 29-9100



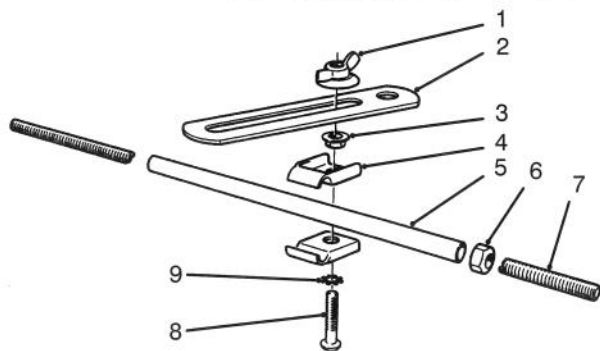
T-0731

Ref. No.	Part No.	Description	No. Used
1	12-9140	Decal	1
2	2410-18	Plug	1
3	29-9080	Handle	1
4	29-9090	Hose – Handle	1
5	36-4310	Brush	1

Note: Special tools may be ordered from: Owatonna Tool Company 2013 4th St. NW Owatonna, MN 55060

SPECIAL TOOLS (Continued)

ALIGNMENT TOOL NO. TOR200120



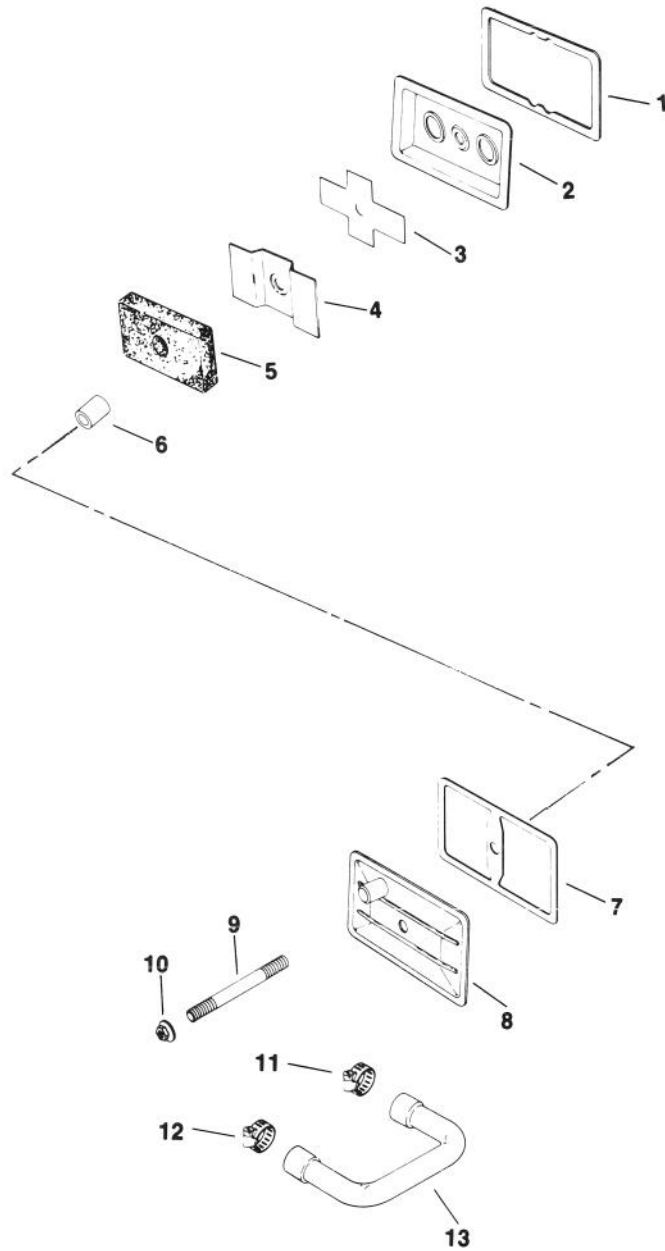
T-0732

Ref. No.	Part No.	Description	No. Used
1	3-4808	Nut - Wing	1
2	20-0110	Bracket - Alignment	1
3	32128-20	Nut - Lock, Flange	1
4	3-6657	Clip - Skid	2
5	20-0070	Tube	1
6	3219-2	Nut - Hex.	1
7	20-0080	Rod	1
8	32122-35	Screw - Truss Head	1
9	3255-8	Washer - Lock, Int. Tooth	1

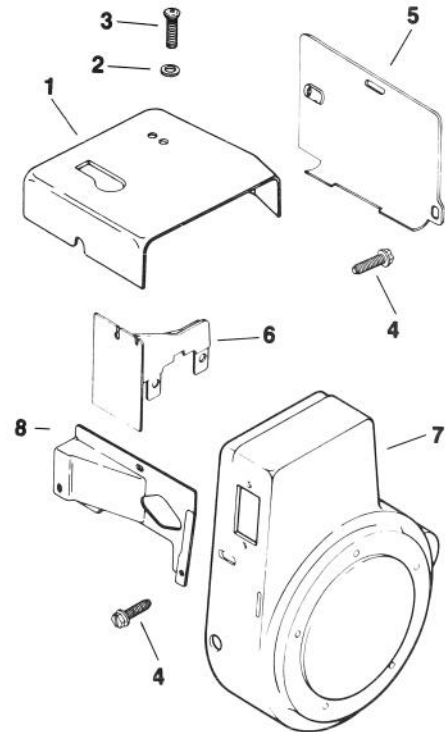
Note: Special tools may be ordered from: Owatonna Tool Company
2013 4th St. NW
Owatonna, MN 55060

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

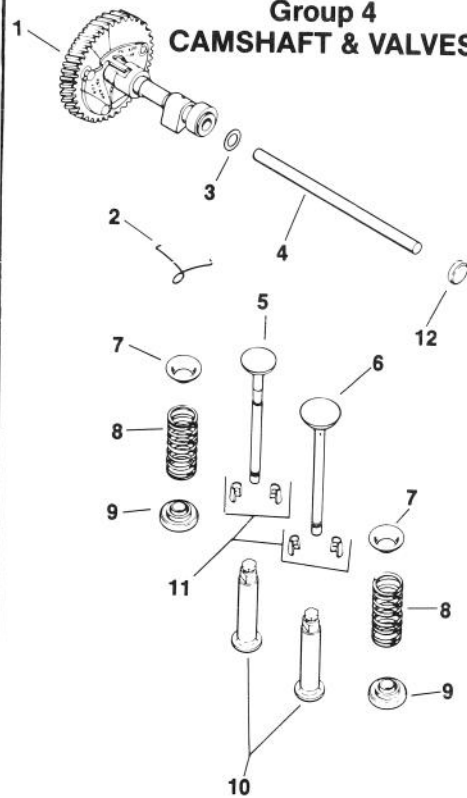
Group 3 BREATHER & VENT



Group 2 BAFFLES & SHROUD



Group 4 CAMSHAFT & VALVES



ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

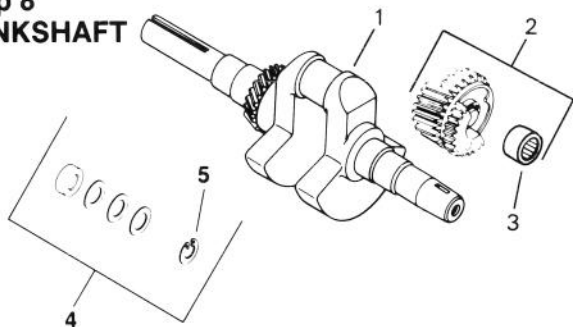
Ref. No.	Part No.	Description	No. Used
		Baffles & Shroud	
1	4506308	Baffle – Head	1
2	X-25-53	Washer – Plain	1
3	4708608	Screw – Pozidriv T.H.	1
4	5208611	Screw – Hex Wash. Hd.	6
5	4706310	Baffle – Cylinder	1
6	4706307	Baffle – Inner	1
7	4702742	Housing – Blower	1
8	4706311	Baffle – Side Air	1
		Breather & Vent	
1	235048	Gasket – Breather Plate	1
2	235631	Plate – Breather	1
3	235047	Reed – Breather	1
4	235117	Baffle – Breather	1
5	235118	Filter – Breather	1
6	231032	Seal – Breather	1
7	275144	Gasket – Valve Cover	1
8	275839	Cover – Valve	1
9	275220	Stud – Valve Cover	1
10	X-799-1	Palnut	1
11	X-426-3	Clamp – Hose 1/2" Wide	1
12	X-426-9	Clamp – Hose 5/16" Wide	1
13	4732602	Hose – Breather	1

Ref. No.	Part No.	Description	No. Used
		Camshaft & Valves	
1	4701011	Camshaft Assembly	1
2	4708901	Spring – Actuating	1
3	275066	Spacer .005	A/R
3	275067	Spacer .010	A/R
4	4738009	Pin – Camshaft	1
5	237672	Valve – Exhaust	1
6	235582	Valve – Intake	1
7	235011	Retainer – Upper Spring	2
8	235168	Spring – Valve	2
9	5241301	Rotator	2
10	D-235327	Tappet	2
11	4175510	Kit – Retainer	2
12	X-702-3	Plug Cup 1/2 O.P.	1

**Group 7
CRANKCASE**

**Group 8
CRANKSHAFT**

Group 8 CRANKSHAFT



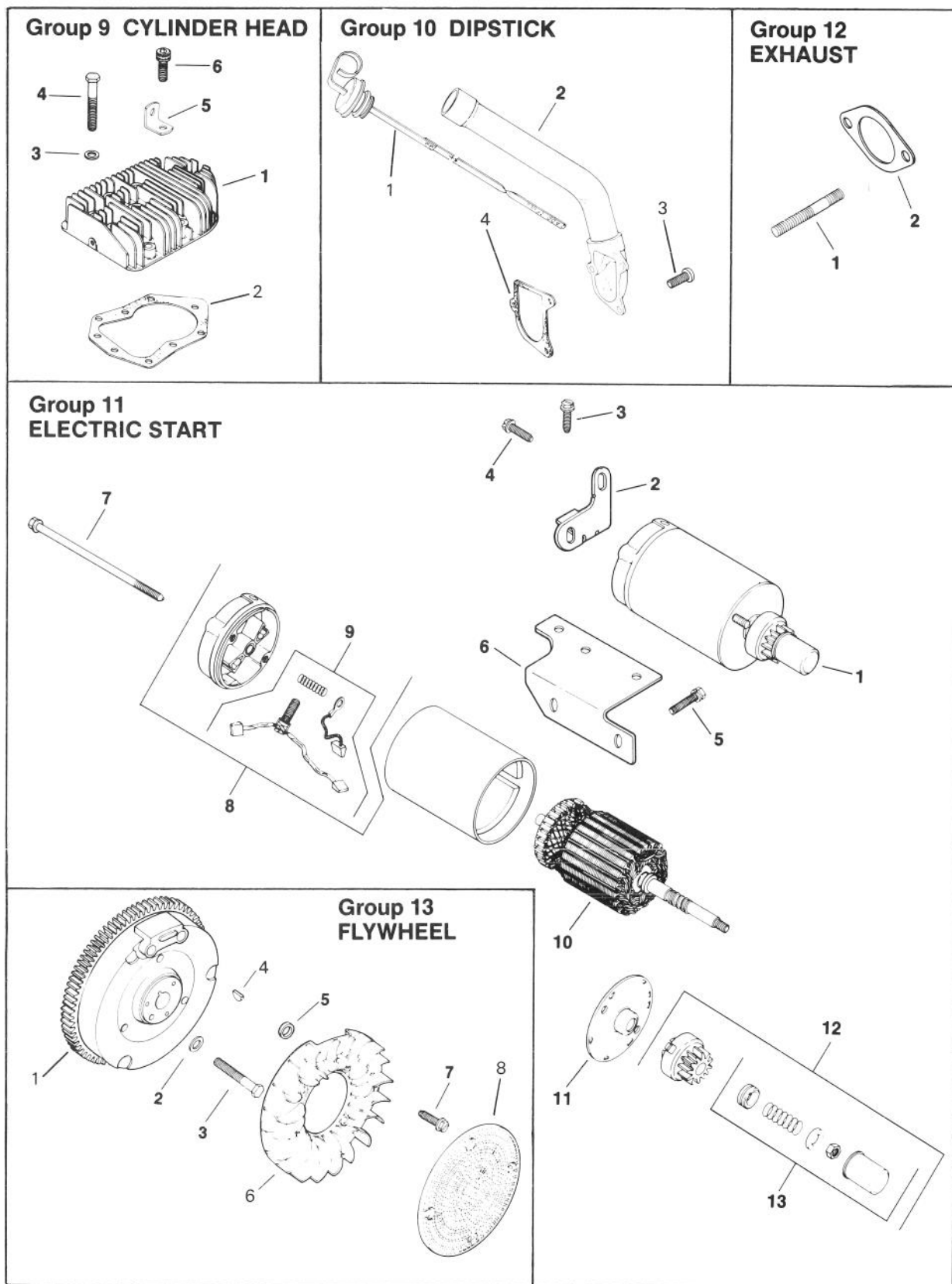
ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

Ref. No.	Part No.	Description	No. Used
		Carburetor	
1	4515501	Connector – Hose	1
2	X-770-1	Screw – Slt. Hd. Built with the following:	2
3	4585307	Kit – Carburetor w/Linkage	1
4	4504107	Gasket – Air Cleaner	1
†5	4505378	Assembly – Carburetor	1
6	4704901	Gasket – Carburetor	1
7	2508627	Screw – Throttle & Choke Plate	4
8	4514607	Plate – Choke	1
9	2519401	Ball – Choke Friction	1
10	2508903	Spring – Choke Friction	1
11	4714425	Shaft – Throttle w/Lever & Seal	1
12	4714610	Plate – Throttle	1
13	2508902	Spring – Idle, Fuel	1
14	2536801	Needle – Idle, Fuel Adjust.	1
15	2508904	Spring – Idle, Speed	1
16	2508626	Screw – Idle Speed Adjust.	1
17	4709038	Lever Assembly, Choke	1
18	4533701	Jet – Main	1
19	2504104	Gasket – Bowl	1
20	2575709	Kit – Float	1
21	2510401	Bowl – Fuel	1
22	2504103	Gasket – Bowl Ret. Screw	1
23	2510005	Screw – Bowl Retainer	1
24	2515505	Connector – Hose	1
*	2575711	Kit – Carburetor Repair	1
*	4575514	Kit – High Altitude Jet or built with the following:	1
25	4585313	Kit – Carburetor	1
4	4504107	Gasket – Air Cleaner	1
6	4704901	Gasket – Carburetor	1
†26	4505384	Carburetor Assembly	1
7	2508627	Screw – Throttle & Choke Plate	4
8	4514607	Plate – Choke	1
9	2519401	Ball – Choke Friction	1
10	2508903	Spring – Choke Friction	1
11	4714425	Shaft – Throttle w/Lever & Seal	1
12	4714610	Plate – Throttle	1
13	2508902	Spring – Idle, Fuel	1
14	2536801	Needle – Idle, Fuel Adjust.	1
15	2508904	Spring – Idle, Speed	1
16	2508626	Screw – Idle Speed Adjust.	1
17	4709038	Lever Assembly, Choke	1
19	2504104	Gasket – Bowl	1
20	2575709	Kit – Float	1
21	2510401	Bowl – Fuel	1
22	2504103	Gasket – Bowl Ret. Screw	1
23	2510005	Screw – Bowl Retainer	1
24	2515505	Connector – Hose	1
27	2536803	Needle – Main, Fuel	1
28	2508902	Spring – Main, Fuel	1
*	2575711	Kit – Carburetor Repair	1

Ref. No.	Part No.	Description	No. Used
		Crankcase	
1	4578228	Cylinder Block Assembly (USE: Miniblock) (Incl. Ref. #12, 17 & 18)	1
2	236559	Shaft – Balance Gear Stub	2
3	4742205	Gasket – Shim	A/R
4	4704109	Gasket – Bearing Plate	1
5	235376	Bearing – Ball	2
6	4714611	Plate – Bearing	1
7	4703206	Seal – Front, Oil	1
8	X-159-2	Screw – H.C.	4
9	X-132-6	Screw – H.C.	4
10	235026	Cover – Camshaft	1
11	235025	Gasket – Camshaft, Cover	1
12	234866	Bearing – Cross Shaft	1
13	235125-S	Shaft – Governor	1
14	X-230-11	Plug – Expansion	1
15	4703207	Seal – Rear, Oil	1
16	4713901	Plug – Cup	2
17	230265	Insert – Valve	2
18	235007-S	Guide – Valve	2
		Crankshaft	
1	4514236	Kit – Crankshaft	1
2	4504303	Gear Assembly (Incl. Ref. #3)	2
3	4703001	Bearing – Needle	2
4	4775501	Kit – Spacer	1
5	X-269-34	Retainer	2

*Not Illustrated

†For information only. Not available separately.

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

Ref. No.	Part No.	Description	No. Used
		Cylinder Head	
1	4501509	Head – Cylinder	1
2	4504117	Gasket – Head	1
3	270889	Washer – Plain	10
4	270158	Screw – H.C.	9
5	4744502	Strap – Lifting	1
6	4708617	Screw – Hex Socket Hd.	1
		Dipstick	
1	4727203	Dipstick	1
2	4712314	Adapter – Oil Fill	1
3	X-131-2	Screw – F.H.	3
4	237064	Gasket – Adapter	1
*	4501483	Extension	1
		Electric Start	
1	4109804	Starter Assembly (Incl. Ref. #8-13)	1
2	4512617	Brace – Tail	1
3	X-67-83	Screw – Hex Wash. Hd.	1
4	X-67-62	Screw – Hex Wash. Hd.	1
5	X-159-2	Screw – H.C.	2
6	4712629	Bracket – Solenoid	1
7	4108619	Bolt – Thru	2
8	4122704	Commutator End Cap	1
9	5275515	Kit – Brush	1
10	4517002	Armature	1
11	4122703	Cap – Drive End	1
12	4775507	Kit – Drive	1
13	4775513	Kit – Drive Parts	1
*	2545003	Tag – Caution	1
*	5235701	Lubricant – Starter	1

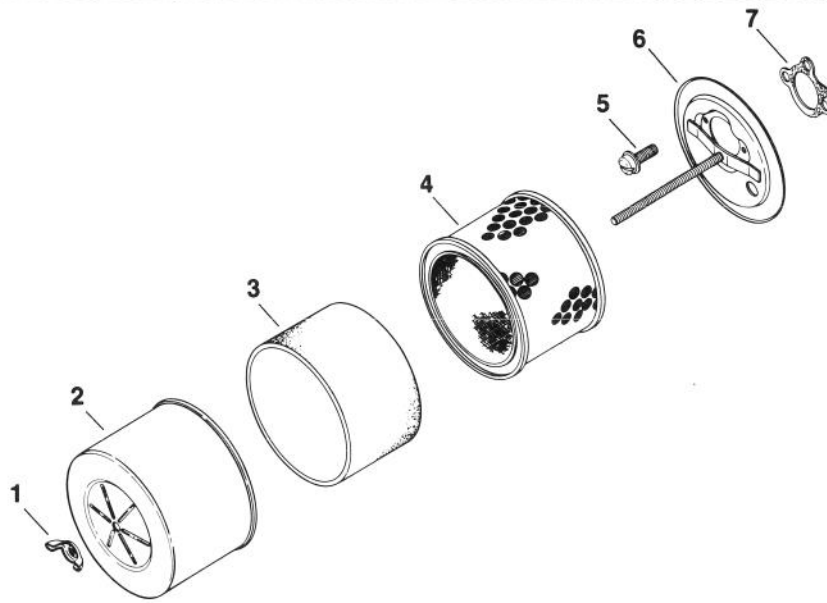
Ref. No.	Part No.	Description	No. Used
		Exhaust	
1	4107219	Stud	2
2	4504115	Gasket – Exhaust	1
		Flywheel	
1	4702553	Flywheel	1
2	5246815	Washer – Plain	1
3	2508624	Screw – Hex Mach.	1
4	X-46-3	Key – Woodruff	1
5	2511204	Spacer	4
6	2515701	Fan	1
7	2508621	Screw – Hex Wash. Hd.	4
8	2516201	Screen – Grass	1



ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

Ref. No.	Part No.	Description	No. Used
		Fuel Pump	
1	2504105	Gasket – Fuel Pump	1
2	240282	Cover – Pump Pad	1
3	X-174-2	Screw – Pozidriv F.H.	2
		Governor	
1	235476	Bushing – Governor Shaft	1
2	X-799-1	Palnut	1
3	4709020	Lever – Governor	1
4	X-776-1	Screw – H.C.	1
5	4715807	Bushing – Natural Linkage Retaining	1
6	4707910	Linkage Governor (Governor to Carburetor)	1
7	2515809	Bushing – Black Linkage Retaining	1
8	X-400-80	Spacer	1
9	A-235256-S	Kit – Governor Cross Shaft	1
10	A-235743-S	Kit – Governor Gear	1
11	237022	Washer – Thrust	1
12	2546801	Washer – Plain	1
13	231355	Pin – Governor Stop	1
14	235496	Spring – Governor	1
15	X-25-102	Washer – Plain	1
16	4875510	Kit – Clamp (Incl. Ref. #17 & 18)	1
17	X-25-58	Washer	1
18	X-102-3	Screw	1
19	X-132-9	Screw H.C.	1
20	X-25-63	Washer – Plain	1
21	275690	Washer – Wave	1
22	236249	Bracket – Speed Control	1
23	235085	Spacer	1
24	235084	Bracket	1
25	4707901	Linkage Choke (Carburetor to Lever)	1
26	X-5-26	Screw – H.C.	1
27	X-20-1	Washer – Lock	1
28	X-25-63	Washer – Plain	1
29	4709006	Lever – Choke Control	1
30	275690	Washer – Wave	1
31	4711202	Spacer	1
32	X-76-2	Nut – Hex	1
33	X-67-51	Screw	1
34	2546804	Washer	1
35	4723702	Clamp – Swivel	1
36	X-72-4	Nut – Hex	1
37	232556	Screw	1
38	4712609	Bracket – Control	1
39	X-25-72	Washer – Plain	1

Ref. No.	Part No.	Description	No. Used
40	X-132-1	Screw – H.C.	1
		Ignition	
1	4758402	Module Ignition	1
2	X-25-79	Washer – Plain	2
3	X-156-1	Screw – H.C.	2
4	237878	Kit – Stator (15 amp.)	1
5	X-67-51	Screw – Stator Mounting	4
6	X-728-1	Clip – Lead	1
7	X-67-59	Screw – Hex Wash. Hd.	1
8	235041-S	Spark Plug RH-10	1
9	210281	Clip – Hi-Tension Lead	1
10	2575503	Kit, Rectifier – Regulator	1
11	236602	Connector – Female (3 Contact)	1
12	X-132-5	Screw – H.C.	2
13	4115503	Connector – Male (2 Contact)	1
14	X-321-6	Screw, Sems Hex.	1
15	235173	Clip, Cable	1
		NOT ILLUSTRATED	
	4751836	Lead – Violet Rect.-Reg. to Connector 23" 14 Gauge Uninsulated Push on Tab Lead White Module to Connector	1
	4751843	Lead – White, w/Diode (5" – 18 Gauge) Insulated Push on Tab – Insulink	
		Oil Pan	
1	235057	Gasket – Oil Pan	1
2	235147	Pan – Oil	1
3	X-159-3	Screw – H.C.	4
4	X-305-4	Plug – Hex Hd.	1
		Piston & Rod	
1	4510810	Ring Set (Std. & .003)	1
1	4510811	Ring Set (.010)	1
1	4510812	Ring Set (.020)	1
1	4510813	Ring Set (.030)	1
2	4587411	Piston w/Ring Set (Std.)	1
2	4587412	Piston w/Ring Set (.003)	1
2	4587413	Piston w/Ring Set (.010)	1
2	4587414	Piston w/Ring Set (.020)	1
2	4587415	Piston w/Ring Set (.030)	1
3	4701801	Retainer Piston Pin	2
4	4506724	Connecting Rod (Std.)	1
4	4506725	Connecting Rod (.010)	1

**Group 1
AIR INTAKE**


T-1179

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

Ref. No.	Part No.	Description	No. Used
		Air Intake	
1	X-276-7	Nut – Wing	1
2	4508201	Cover – Air Cleaner	1
3	4508301	Precleaner – Element	1
4	4508302	Element	1

Ref. No.	Part No.	Description	No. Used
5	X-167-2	Screw – F.H.	3
6	4509401	Base – Air Cleaner	1
7	275341	Gasket – Air Horn	1
*	2511307	Decal	1

*Not Illustrated

TORO PART NUMBER INDEX

3316-975 Rev.A

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3-0348	Bushing	5 27 6	27-2420	Felt Strip	12 41 2
3-0348	Bushing	1 31 10	27-2540	Spacer - Hub	7 30 1
3-0348	Bushing	7 35 6	27-2550	Pin - Hinge	7 31 1
3-1506	Bushing	2 60 12	27-2830	Decal - Parking Brake	2 81 1
3-4808	Nut - Wing	25 1 1	27-3040	Hose - Pump	12 46 2
3-6657	Clip - Skid	25 4 2	27-3040	Hose - Pump/Inlet	23 10 2
3-6685	Spring	19 47 1	27-3070	Wire - Battery to Engine	21 44 1
3-8516	Anchor - Cable	19 22 1	27-6600	Spacer - Rubber	21 28 4
5-0698	Key	19 18 1	27-7980	Front Reservoir Strap Assy.	12 30 1
5-0946	Key - Square	22 1 1	28-1400	Battery	20 65 1
5-1226	Washer	7 28 A/R	28-2120	Wire - Battery to Ground	21 43 1
5-1226	Washer - Shim	3 89 2	28-3680	Tire	5 2 2
5-2653	Pulley Assembly	10 13 4	28-3680	Tire	19 42 1
5-3934	Bolt	19 34 1	28-4210	Solenoid	19 53 1
8-7710	Ball Joint Receiver Assy.	2 56 6	28-8080	Boot Terminal	20 69 1
10-6060	Pin - Ram Pivot	1 23 2	29-9080	Handle	24 3 1
10-6090	Pin - Pivot	5 40 1	29-9090	Hose - Handle	24 4 1
10-6090	Pin - Pivot	8 56 1	36-4310	Brush	24 5 1
10-6090	Pin - Pivot	2 62 2	36-7250	Grass Basket	8 58 3
10-6110	Pin - Hinge	1 28 2	38-0410	Nut - Hex.	16 53 1
10-6821	Drum Assy.	5 51 1	38-0410	Nut - Hex.	18 59 1
10-6830	Drive Stud	19 39 4	42-2680	Race R. Detent	15 46 1
10-6870	Hub - Wheel	5 5 2	43-5220	Ring - Retaining	9 12 1
10-7070	Key - Engine	21 2 1	43-5230	Shaft with Clevis	9 13 1
10-7130	Wire - Solenoid to Battery	21 42 1	43-5260	Barrel w/Clevis & Ports	9 2 1
10-7240	Sleeve - Steering Pulley	10 42 1	43-8600	Spring - Compression	20 61 1
10-7370	Tube Cap	10 5 1	43-8610	Guide - Spring & Ball Seat	20 62 1
10-7820	Hinge - Pivot	5 29 1	43-8620	Guide - Switch Pin	20 59 1
10-7820	Hinge - Pivot	1 30 1	43-8860	Plunger - Switch	20 60 1
10-7820	Pivot Hinge	7 38 1	43-8870	Boot - Switch	19 56 1
10-7850	Latch - Parking Brake	2 76 1	43-9071	Switch Assembly	20 * 1
10-7880	Hinge - Upper, Park Brake	2 77 1	44-0870	Camshaft - Rear	7 16 1
10-7890	Hinge - Lower, Park Brake	2 74 1	44-2230	Coupling - Rubber	21 27 1
10-7920	Washer	8 68 1	44-2500	Hydraulic Oil Dye	13 * 1
10-8100	Strap - Brake Shaft	2 37 2	44-5560	Filter Head - Hydraulic	12 48 1
10-8110	Washer - Thrust	5 26 6	47-5320	Lever - Cutting Control	7 14 1
10-8110	Washer - Thrust	2 51 18	49-5410	Box - Tool	5 23 1
10-8110	Washer - Thrust	7 36 6	49-5430	Rod - Control	5 19 1
10-8120	Bolt - Battery	19 55 2	49-5450	Plate - Cover	5 16 1
10-8140	Spring - Brake Latch	2 75 1	49-5460	Shield - Valve Cover L.H.	10 31 1
10-8220	Pad - Tool Box	5 22 1	49-5470	Shield - Valve Cover R.H.	10 38 1
10-8240	Foot Pad - Lift	1 9 1	49-5840	Seat Support	10 20 1
10-8250	Foot Pad - Mow	1 6 1	49-5880	Shaft - Seat Support	10 34 1
11-0160	Roller Shaft Screw Assy.	2 70 6	49-5900	Steering Wheel Assembly	10 1 1
12-3270	Screw - Cap, Hex. Hd.	23 35 3	49-5910	Arm Steering	10 10 1
12-3270	Screw - Pentafllo	7 10 1	49-5970	Bracket - Pulley	10 15 1
12-3270	Screw - Thread Forming	10 32 2	49-6110	Guard - Transfer Rod	3 88 1
12-7189	Engine	21 1 1	49-6120	Pad - Footrest	1 15 1
12-9140	Decal	24 1 1	49-6170	Foot Pad - Brake	1 4 1
18-1520	Fuel Filter	19 4 1	49-6200	Lever - Cutting Control	1 2 1
20-0070	Tube	25 5 1	49-6220	Bracket - Control Arm	7 17 1
20-0080	Rod	25 7 1	49-6250	Bracket - Traction Pivot	7 8 1
20-0110	Bracket - Alignment	25 2 1	49-6260	Tube - Traction Pivot	8 55 1
21-8470	Shaft - Yoke Roller	2 61 3	49-6290	Shaft - Traction Pivot	7 9 1
22-6090	Washer - Thrust	24 4 1	49-6320	Rod - Traction Control	7 7 1
23-0660	Key Switch	11 5 1	49-6430	Pad - Pedal Reverse	7 6 1
23-8840	Puller - Bolt	24 3 1	49-6440	Pedal - Accelerator	7 2 1
23-8850	Tube - Support	24 5 1	49-6470	Pad - Pedal Forward	7 3 1
23-8860	Pin - Bearing Rplcmnt.	24 6 1	51-0010	Decal - Traction	10 39 1
23-8880	Driver - Bearing	24 1 2	51-0050	Decal - Mow/Lift	1 10 1
26-3790	Nut - Lock	5 4 2	51-0350	Pin - Seat Spring	19 46 1
27-1930	Pump Mount	21 25 1	51-0780	Seat Slider	10 23 1
27-1960	Coupling - Engine	21 31 1	51-0790	Seat Adjuster	10 30 1
27-1970	Coupling - Pump	21 26 1	52-1990	Piston	4 4 1
27-2040	Hose	12 27 1	52-2720	Roller Assembly	2 66 3
27-2150	Mounting Pad - Engine	21 36 4	52-5860	Collar - Spool	18 51 1
27-2270	Rod - Brake Adjustment	2 36 2	52-5880	Ball - Steel	15 47 12
27-2320	Bearing - Flange	1 7 2	52-5900	Screw - Fillister Hd.	17 37 4
27-2320	Side Flange - Bearing	7 13 2	TOR491430	Protector - Seal	24 1 1
27-2380	Spacer - Filler Mount	12 20 1	TOR491450	Installer - Seal	24 2 1
27-2400	Reservoir Strap Assembly	12 39 1	55-3570	Gas Cap	19 10 1
27-2420	Felt Strap - Angle	12 38 2	55-8480	Tank - Hydraulic	12 43 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
56-7981	Sleeve - Protective	23 40 1	70-2770	Head	9 10 1
57-6140	Clamp - Tube Side	5 17 4	70-2780	Piston	9 5 1
57-6220	Link Connector	13 56 5	70-7130	Traction Line - Upper L.H.	23 19 1
57-7650	Spring - Torsion	5 34 2	70-7150	Traction Hose - Lower L.H.	23 5 1
57-7650	Spring - Torsion	2 47 1	70-8600	Traction Hose - Upper R.H.	23 4 1
57-7650	Spring - Torsion	7 49 1	70-8610	Hose - Traction, Upper L.H.	23 33 1
58-6530	Decal - Oil	12 32 1	70-9800	Reel Motor	13 51 3
59-9810	Module	11 13 1	70-9840	Shoe & Lining Assembly	5 7 4
61-9390	Drum - Steering	19 25 1	70-9850	Clip - Retainer	5 46 2
62-2110	Muffler Assembly	21 10 1	70-9860	Shaft - Cam	5 49 2
62-2130	Control - Choke	11 20 1	70-9870	Plate - Backing, Brake	5 48 2
62-2160	Pulley - Front Steering	10 8 1	70-9880	Spring	5 50 4
62-2170	Washer-Thrust	19 31 1	71-0990	Fitting - One Way Orifice	13 65 1
62-2180	Steering Cable	10 9 1	71-1500	Brake Assembly	5 * 2
62-2190	Washer - Special	19 17 1	71-1510	Arm - Brake R.H.	5 28 1
62-2210	Tank Base	19 12 1	71-1510	Lever - Brake	1 29 1
62-2220	Caster Fork	19 32 1	71-3620	Decal - Engine	21 46 1
62-2270	Exhaust Pipe	21 7 1	72-3850	Seal - Ring	12 50 1
62-2300	Traction Pump Assembly	21 17 1	72-4320	Switch - Neutral	20 64 1
62-2350	Wire Harness - Column	21 39 1	72-4380	Seal Kit	14 18 1
62-2390	Bar - Lift Arm L.H.	2 46 1	72-4390	Repair Kit	14 19
62-2420	Bar - Arm, Lift	5 35 1	72-4790	Hold Down - Battery	20 71 1
62-2420	Bar - Lift Arm	8 50 1	74-3570	Filter Element	12 49 1
62-2440	Arm - Lift, R.H.	5 31 2	74-3580	Gas Tank	19 1 1
62-2460	Lift Arm - L.H.	2 52 1	74-3730	Spacer	1 22 2
62-2470	Hose - Gas Line (Long)	19 2 1	74-3730	Spacer	19 35 2
62-2570	Breather Cap	12 33 1	74-3830	Hose - Pressure, Rear	23 1 1
62-2580	Spacer	5 * 2	75-9380	Decal - Caution	10 3 1
62-2610	Screen Assembly	12 36 1	75-9440	Hub Assembly	19 40 1
62-2630	Wire Assembly	21 45 1	75-9990	Motor - Hydraulic	5 44 2
62-2660	Pad - Foot Step	1 26 1	76-0800	Seal Kit	6 * 1
62-2780	Spark Arrestor Muffler	21 * 1	76-0810	Housing Assembly	6 * 1
62-5070	Decal - Danger	5 47 1	76-0840	Manifold	6 22 1
62-5070	Decal - Danger	8 51 1	76-0850	Bearing - Thrust	6 12 1
62-5070	Decal - Danger	2 63 1	76-0860	Shaft - Coupling	6 11 1
62-5550	Decal - Toro	10 33 2	76-0870	Plate - Wear	6 18 1
63-3810	Hose - Pressure R.H.	23 30 1	76-0880	Commutator Assembly	6 * 1
63-3820	Hose - Return R.H.	23 28 1	76-0940	End Cover Assembly	6 24 1
63-3830	Hose - Return L.H.	23 24 1	76-0960	Link - Drive	6 13 7
63-3840	Hose - Return, Rear	23 2 1	76-0970	Rotor Set	6 * 1
63-3850	Hose - Cylinder - Drop L.H.	23 17 1	76-1010	Screw - Cap, Hex. Hd.	6 14 1
63-3870	Hose - Pressure L.H.	23 23 1	76-1720	Gasket - Filler Cap	13 67 1
63-3880	Hose - Cylinder, Lift R.H.	23 9 1	76-1850	Clevis	4 14 1
63-3890	Hose - Cylinder - Lift L.H.	23 18 2	76-1860	Shaft with Clevis	4 7 1
63-3900	Hose - Pump #3	23 7 1	77-0480	Screw - Accelerator Stop	8 60 1
63-3910	Hose - Pump #2	23 13 1	82-5570	Gasket - Exhaust	21 3 1
63-3920	Hose - Pump #1	23 14 1	83-0060	Lift Pivot	2 64 1
63-3930	Hose Cylinder - Drop, Rear	23 6 1	83-0080	Spring - Lift Pivot	2 65 1
63-3940	Hose - Pump #4	23 12 1	83-0140	Foot Pedal	3 85 1
63-3950	Hose - Cylinder - Drop L.H.	23 22 1	83-0160	Shaft - Brake	1 8 1
63-4020	Pressure Line	23 25 1	83-0540	Rod - Accelerator	7 4 1
63-4030	Pressure Line	23 27 1	83-0820	Ammeter Assembly	11 4 1
63-4040	Return Line - R.H.	23 26 1	83-1200	Tube - Traction Lower L.H.	23 15 1
63-4050	Fitting Traction Upper	12 10 2	83-1700	Bushing - Flange	7 27 3
63-4060	Brazed Tube Assembly	12 8 1	83-1890	Switch - Ball	16 54 1
63-4080	Manifold Drain Orifice	12 2 1	83-1890	Switch - Ball	18 60 1
63-4090	90° Fitting - Extended	13 54 1	83-2460	Hose - Traction Lower R.H.	23 16 1
63-7400	Washer - Flat	21 37 4	83-2590	Bolt - Shoulder	3 91 1
63-8360	Key	11 8 1	83-7000	Hydraulic Cylinder Assy.	7 37 1
63-8750	Pin - Pivot	5 36 2	84-2000	Bracket - Brake	5 11 2
63-8750	Pin - Pivot	2 48 1	84-2203	Control Valve	13 57 1
63-8750	Pin - Pivot	7 48 1	84-2203	Control Valve Assembly	18 * 1
65-4860	Head	4 10 1	84-8290	Cylinder - Hydraulic	1 16 2
65-5871	Tube	10 43 1	85-6540	Stud - Drive Type	5 6 8
65-5890	Cap	10 45 2	86-5360	Seal Repair Kit	9 * 1
66-2950	Hour Meter Assembly	11 2 1	86-5390	Seal Repair Kit	4 * 1
68-5100	Rod - Seat	10 49 1	86-9820	Pull Frame - Rear	8 57 1
68-5310	Clip Seat	10 51 1	88-6900	Plate - Footrest	8 67 1
68-5880	Return Line - Man. to Filter	23 20 1	88-9500	Needle Valve Assembly	13 * 1
68-5930	Handle - Traction	7 21 1	88-9630	Lift Pivot Bracket - R.H.	3 87 1
68-9910	Panel - Control	11 12 1	88-9640	Lift Pivot Bracket - L.H.	1 13 1
68-9930	Control - Throttle	11 21 1	88-9660	Shaft - Cutting Control	1 11 1
68-9940	Decal - Control Panel	11 14 1	88-9670	Lift Arm - Center	7 40 1
69-9760	Plate - Cover	3 90 1	88-9680	Wire Harness - Traction	21 41 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
88-9690	Wire Harness - Frame	21 40 1	2412-41	Clip	11 16 1
92-0585	Pull Arm Assembly - R.H.	2 69 3	2412-41	R-Clamp	23 34 3
92-0586	Pull Arm Assembly - L.H.	2 59 3	2412-76	Muffler Clamp Assembly	21 11 1
92-0587	Fitting - Hydraulic Valve	13 55 1	2412-102	R-Clamp	10 44 2
92-0588	Bushing - Needle	12 17 1	2412-108	Clamp - Hose	19 3 4
92-1180	Seat Assembly	10 * 1	251-141	Bearing - Ball	2 67 6
92-1192	Frame	7 19 1	253-111	Seal	19 36 2
92-1194	Plate - Traction	8 63 1	254-78	Cone	19 37 2
92-1195	Decal - Service	10 53 1	254-79	Cup	19 38 2
92-1199	Decal - Greensmaster 3000	2 78 1	256-2	Bushing	10 14 4
28-1400	Battery	20 65 1	256-2	Bushing	8 54 2
92-1699	Cap - Battery (Flush)	20 78 1	256-113	Bushing	10 6 2
92-1707	Cap - Battery (Poison)	20 74 1	256-155	Bushing	10 37 2
92-2545	Seals - Spool	16 * 1	256-219	Bushing	8 65 2
92-2545	Seals - Spool	18 * 1	256-251	Bushing	7 22 2
92-2546	Wiper - Seal	15 25 4	256-290	Bushing	7 25 2
92-2546	Wiper - Seal	18 64 5	281-1	Plug - Oil	12 45 1
92-2547	Plate - Seal Retainer	17 18 6	282-2	Yoke	2 33 4
92-2547	Plate - Seal Retainer	15 24 4	282-2	Yoke	5 21 2
92-2548	Seal - Spool (Single End Set)	16 * 1	283-1	Pin - Clevis	2 34 4
92-2548	Seal - Spool (Single End Set)	18 * 1	283-1	Pin - Clevis	5 42 2
92-2549	Seals - End Set #4 Only	18 * 1	283-8	Pin - Clevis	1 27 2
92-3048	Spring - Centering	15 41 1	283-57	Pin - Clevis	7 18 1
92-3148	Spring	17 23 1	302-2	Fitting - Grease	4 1 2
92-6533	Kit - Cushion	10 24 1	302-5	Fitting - Grease	7 26 1
92-6534	Shell	10 25 1	302-5	Fitting - Grease	19 33 1
92-9176	Pull Frame - L.H.	2 71 1	302-5	Fitting - Grease	2 58 8
92-9177	Frame - Pull, R.H.	5 37 1	302-11	Fitting - Grease	7 41 1
93-1386	Section #5 Assembly	18 * 1	302-60	Fitting - Grease	1 20 4
217-60	Rim	5 3 2	302-60	Fitting - Grease	5 30 1
217-60	Rim	19 41 1	302-60	Fitting - Grease	7 39 1
218-461	Nut - Hex	11 7 1	304-61	Clamp	13 60 1
218-461	Nut - Jam	20 57 2	321-3	Screw - Cap, Hex Hd.	12 44 2
218-489	Fuse Holder	11 1 1	321-3	Screw - Cap, Hex Hd.	20 70 2
231-124	Tire - Treaded	5 * 2	321-3	Screw - Cap, Hex. Hd.	11 11 1
232-24	Valve Stem - With Cap	19 43 1	321-3	Screw - Cap, Hex. Hd.	23 36 1
232-24	Valve Stem w/Cap	5 52 2	321-3	Screw - Cap, Hex. Hd.	10 52 1
232-37	Inner Tube - Heavy Duty	5 *{ 2	321-5	Screw - Cap, Hex. Hd.	5 8 8
233-48	Knob	7 20 1	321-18	Screw - Cap, Hex Hd.	10 2 1
233-50	Knob	11 9 2	321-23	Screw - Cap, Hex Hd.	3 86 1
237-7	O-Ring	20 58 1	322-1	Screw - Cap, Hex Hd.	7 34 2
237-21	O-Ring	12 9 7	322-1	Screw - Cap, Hex. Hd.	1 25 6
237-21	O-Ring	1 19 1	322-1	Screw - Cap, Hex. Hd.	5 38 1
237-22	O-Ring	12 7 A/R	322-2	Screw - Cap, Hex Hd.	12 23 2
237-22	O-Ring	21 24 2	322-3	Screw - Cap, Hex Hd.	19 15 1
237-30	O-Ring	12 5 A/R	322-3	Screw - Cap, Hex. Hd.	10 46 2
237-30	O-Ring	21 18 1	322-4	Screw - Cap, Hex Hd.	12 22 2
237-30	O-Ring	20 63 1	322-4	Screw - Cap, Hex. Hd.	11 18 1
237-42	O-Ring	12 11 A/R	322-5	Screw - Cap, Hex Hd.	7 11 2
237-42	O-Ring	21 22 3	322-5	Screw - Cap, Hex Hd.	19 20 1
237-54	O-Ring	17 3 6	322-6	Screw - Cap, Hex Hd.	21 30 4
237-54	O-Ring	15 6 8	322-14	Screw - Cap, Hex Hd.	13 63 3
237-58	O-Ring	12 3 A/R	323-6	Screw - Cap, Hex Hd.	19 14 2
237-65	O-Ring	5 14 4	323-6	Screw - Cap, Hex Hd.	10 19 2
237-65	O-Ring	13 66 4	323-8	Screw - Cap, Hex Hd.	21 16 2
237-78	O-Ring	9 1 2	323-10	Screw - Cap, Hex Hd.	1 14 4
237-78	O-Ring	1 17 4	323-15	Screw - Cap, Hex Hd.	21 34 1
237-79	O-Ring	12 6 8	323-20	Screw - Cap, Hex Hd.	21 35 3
237-79	O-Ring	21 20 1	324-6	Screw - Cap, Hex Hd.	21 14 4
237-80	O-Ring	5 12 4	325-3	Screw - Cap, Hex Hd.	10 17 4
237-80	O-Ring	12 13 2	325-11	Screw - Cap, Hex. Hd.	5 10 8
237-81	O-Ring	12 1 1	3211-1	Screw - Cap, Hex Hd.	7 42 2
237-100	Grommet	11 19 1	3217-5	Nut - Hex	19 29 2
237-101	O-Ring	12 24 1	3217-6	Nut - Hex	21 9 2
237-136	Grommet	19 11 4	3217-7	Nut - Hex	15 33 3
237-148	Seal - Quad Ring	19 30 1	3217-25	Nut	11 29 2
237-149	O-Ring - Seal	19 26 1	3218-2	Nut - Jam	19 23 2
242-50	Nut - Wheel	5 1 8	3218-13	Nut - Jam	19 54 2
242-50	Nut - Wheel	19 44 4	3219-2	Nut - Hex.	25 6 1
2410-18	Plug	24 2 1	3219-14	Nut	11 3 6
2411-32	Ball Joint	8 62 2	3219-14	Nut-Hex	19 49 2
2412-3	Clamp - Hose	23 21 2	3219-18	Nut - Hex.	24 2 1
2412-3	Clamp - Hose	12 26 8	3220-2	Nut	5 20 2
2412-36	Clamp - Gas Line	20 77 2	3220-2	Nut - Hex	2 35 4

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
323-15	Screw - Cap, Hex Hd.	21 34 1	3257-42	Key - Woodruff	5 45 2
323-20	Screw - Cap, Hex Hd.	21 35 3	3272-4	Pin - Cotter	7 23 1
324-6	Screw - Cap, Hex Hd.	21 14 4	3272-6	Pin - Cotter	2 32 4
325-3	Screw - Cap, Hex Hd.	10 17 4	3272-6	Pin - Cotter	5 43 2
325-11	Screw - Cap, Hex. Hd.	5 10 8	3272-11	Pin - Cotter	1 21 3
3211-1	Screw - Cap, Hex Hd.	7 42 2	3272-11	Pin - Cotter	5 32 2
3217-5	Nut - Hex	19 29 2	3272-11	Pin - Cotter	10 48 1
3217-6	Nut - Hex	21 9 2	3272-11	Pin - Cotter	8 53 1
3217-7	Nut - Hex	15 33 3	3272-12	Pin - Cotter	2 45 1
3217-25	Nut	11 29 2	3274-12	Screw - Hex Socket Hd.	10 21 4
3218-2	Nut - Jam	19 23 2	3274-15	Screw - Fillister Hd.	15 43 2
3218-13	Nut - Jam	19 54 2	3274-52	Screw - Hex, Socket Hd.	15 20 4
3219-2	Nut - Hex.	25 6 1	3274-52	Screw - Hex, Socket Hd.	17 45 6
3219-14	Nut	11 3 6	3274-54	Screw - Set, Socket Hd.	12 28 2
3219-14	Nut - Hex	19 49 2	3274-70	Screw - Hex, Socket Hd.	15 1 2
3219-18	Nut - Hex.	24 2 1	3274-84	Screw - Cap, Hex. Hd.	18 58 4
3220-2	Nut	5 20 2	3284-3	Pin Groove	19 48 1
3220-2	Nut - Hex	2 35 4	3290-314	Tinnerman Push-On	10 41 2
3220-2	Nut - Hex, Jam	8 64 2	3290-317	Washer - Spring	2 68 6
3220-3	Nut - Hex, Jam	2 57 6	3290-379	Tie - Cable	23 8 6
3220-6	Nut - Jam	4 15 1	3296-4	Nut - Lock	19 19 2
3229-22	Bolt - Carriage	3 84 2	3296-4	Nut - Lock	8 61 2
3234-1	Screw - Flange, Hex. Hd.	7 12 4	3296-16	Nut - Hex	2 72 3
3234-1	Screw - Hex, Flange Hd.	1 5 4	3296-16	Nut - Lock	23 37 1
3234-4	Screw - Cap, Hex. Hd.	5 18 4	3296-16	Nut - Lock	10 40 1
3241-2	Screw - Set, Sq. Hd.	21 32 2	3296-16	Nut - Lock	10 50 1
3241-6	Screw - Set, Sq. Hd.	21 29 2	3296-16	Nut - Lock, Flange	5 41 3
3242-9	Screw - Set, Sq. Hd.	19 24 2	3296-16	Nut - Hex	12 40 4
3250-36	Screw - Phil. Hd.	19 13 4	3296-23	Nut - Lock	5 25 8
3253-3	Washer - Lock	12 42 2	3296-29	Nut - Lock	21 4 4
3253-3	Washer - Lock	18 57 4	3296-29	Nut - Lock	10 36 4
3253-3	Washer - Lock	2 73 2	3296-29	Nut - Lock	7 45 2
3253-4	Washer - Lock	21 8 2	3296-29	Nut - Lock	20 76 1
3253-4	Washer - Lock	19 16 4	3296-39	Nut - Lock	10 11 2
3253-4	Washer - Lock	12 19 3	3296-39	Nut - Lock	19 27 2
3253-4	Washer - Lock	1 24 6	3296-39	Nut - Lock	21 33 4
3253-4	Washer - Lock	7 33 2	3296-39	Nut - Lock	2 44 1
3253-4	Washer - Lock	5 39 1	3296-42	Nut - Lock	5 9 8
3253-4	Washer - Lock	10 47 2	3296-50	Nut - Lock	19 45 1
3253-6	Washer - Lock	21 13 4	3296-59	Nut - Hex.	2 41 8
3253-21	Washer - Lock	21 15 2	3296-59	Nut - Lock	7 46 4
3253-21	Washer - Lock	10 18 2	32103-12	Nut - Wing	20 73 2
3253-21	Washer - Lock	2 40 8	32104-76	Screw - Tapping, Acorn Hd.	10 4 15
3253-23	Washer - Flat	11 17 1	32105-8	Screw - Machine, Rd. Hd.	11 22 4
3254-1	Washer - Lock	19 50 2	32108-100	Screw - Mach. Phillips Hd.	5 15 3
3254-2	Washer - Lock, Int. Tooth	13 64 1	32120-8	Ring - Retaining Internal	4 11 1
3254-5	Washer - Lock	11 6 1	32121-6	Pin - Roll	1 1 1
3254-6	Washer - Lock	7 43 2	32121-6	Pin - Roll	7 15 1
3254-6	Washer - Lock	21 47 1	32121-34	Pin - Roll	10 7 1
3255-7	Washer - Lock, Int. Tooth	11 30 1	32121-35	Pin - Roll	1 12 8
3255-8	Washer - Lock, Int. Tooth	25 9 1	32121-45	Pin - Roll	1 3 3
3255-20	Washer - Lock ETLW	11 28 2	32121-45	Pin - Roll	7 1 2
3256-4	Washer - Flat	10 12 4	32121-45	Pin - Roll	7 5 1
3256-21	Washer - Flat	11 25 2	32121-45	Pin - Roll	10 35 1
3256-22	Washer - Flat	12 29 2	32122-35	Screw - Truss Head	25 8 1
3256-22	Washer - Flat	23 38 1	32128-20	Nut - Hex	12 18 3
3256-22	Washer - Flat	19 52 2	32128-20	Nut - Hex	8 59 1
3256-22	Washer - Flat	20 72 2	32128-20	Nut - Lock	11 10 1
3256-22	Washer - Flat	2 80 1	32128-20	Nut - Lock, Flange	25 3 1
3256-23	Washer - Flat	21 12 6	32141-111	Nut - Hex Hd. Flange	3 83 1
3256-23	Washer - Flat	12 21 5	32144-1	Screw - Thread Forming	21 38 8
3256-23	Washer - Flat	10 22 6	32144-14	Screw - Cap, Hex. Hd.	8 66 1
3256-23	Washer - Flat	7 32 1	32144-34	Screw	12 35 6
3256-23	Washer - Flat	20 75 1	32149-2	Nut - Lock	19 51 2
3256-24	Washer - Flat	2 39 15	32149-2	Nut - Lock, Keps	11 15 1
3256-24	Washer - Flat	7 44 2	32149-7	Nut - Lock	11 23 1
3256-24	Washer - Flat	7 47 4	32151-41	Ring - Retaining	14 9 1
3256-26	Washer - Flat	10 16 4	32152-10	Nut	9 3 1
3256-26	Washer - Flat	5 33 3	32152-10	Nut - Lock	4 3 1
3256-26	Washer - Flat	2 43 1	3333-975	Cable Tie	23 31 1
3256-26	Washer - Flat	8 52 1	340-6	Fitting - Straight	21 19 1
3257-42	Key - Woodruff	6 17 1	340-14	Fitting	5 13 4

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
340-16	90° Fitting	12 4 1	353-732	Sleeve - Detent	16 52 1
340-18	90° Elbow	12 12 1	353-733	Spacer - Bonnet	15 4 1
340-77	90° Elbow	13 52 3	353-733	Spacer - Bonnet	17 19 2
340-77	90° Fitting	21 21 1	353-737	Ball	18 63 1
340-87	45° Fitting	21 23 2	353-754	Bonnet - R. Detent	15 42 1
340-87	45° Fitting	13 58 2	353-758	Seal - O-Ring	15 31 1
340-92	Fitting - Orifice Str.	23 32 1	353-760	Body Relief	15 30 1
340-92	Fitting - Straight	1 18 1	353-762	Spud - Detent Out	16 50 1
340-98	90° Elbow	13 59 2	353-763	Cap - Adjustment	15 44 1
340-101	45° Fitting	12 16 3	353-766	Relief WH (2000) PSI Assy.	16 * 1
340-103	45° Elbow Adjustable	23 11 1	353-768	Section #1 Complete	16 * 1
351-78	Edging	10 29 2	353-772	Left End Cover	15 34 1
353-301	Poppet	15 27 1	353-777	Body - Motor	14 12 1
353-302	O-Ring	17 7 3	353-780	Positioner - R. Detent (Out)	16 * 1
353-302	O-Ring	15 10 3	353-808	Collar - Spring	17 24 1
353-303	Ring - Backup	17 8 6	353-829	Collar Spool	17 26 1
353-303	Ring - Backup	15 9 6	353-830	O-Ring	17 25 1
353-304	Spring	15 28 1	353-831	Spring	17 21 1
353-305	O-Ring	17 5 5	353-833	Positioner Assembly	18 * 1
353-305	O-Ring	15 8 4	353-835	Seals - Section Set	16 * 1
353-306	Ring - Backup	17 4 5	353-835	Seals - Section Set	18 * 1
353-306	Ring - Backup	15 7 4	353-837	Section #2 Complete	16 * 1
353-328	Washer - Shim	15 15 A/R	353-839	Positioner - DI (SPL) Assy.	16 * 1
353-328	Washer - Shim	17 32 A/R	353-840	Position - DI (SP) Assy.	18 * 1
353-329	Washer - Shim	15 16 A/R	353-841	Position - Spool Assembly	18 * 1
353-329	Washer - Shim	17 33 A/R	353-844	Plug Series	18 55 1
353-330	Washer - Shim	15 17 A/R	353-845	Sleeve - Detent	17 41 1
353-330	Washer - Shim	17 34 A/R	353-846	Spud - DI (SPL)	17 40 1
353-331	O-Ring	15 29 1	353-847	Bonnet (SPL)	17 38 1
353-334	Cap - Relief	15 19 2	353-848	O-Ring	17 14 1
353-334	Cap - Relief	17 36 2	353-849	Sleeve	17 39 1
353-392	Seal - Relief Poppet PTFE	15 13 2	353-850	O-Ring	18 56 1
353-392	Seal - Relief Poppet PTFE	17 30 2	353-851	Body - Relief CP-RC Mod.	15 12 1
353-398	Spring	17 35 1	353-851	Body - Relief CP-RC Mod.	17 29 2
353-417	Collar Spring	17 20 2	353-853	Bolt - Hex Hd.	17 10 3
353-417	Collar Spring	15 40 2	353-855	Spring	15 18 2
353-481	Plug - Load Check	17 2 2	353-855	Spring	17 44 1
353-481	Plug - Load Check	15 5 3	353-884	Key - Woodruff	22 11 4
353-483	Body - Anticavitation	18 61 1	353-886	Ring - Retaining	22 12 2
353-484	Retainer - Ball	18 62 1	353-916	Flange Assembly	22 3 1
353-529	Plate Seal	17 22 1	353-917	O-Ring	22 4 1
353-531	Poppet Assembly	17 31 2	353-918	Body Assembly	22 5 1
353-531	Poppet Assy.	15 14 2	353-921	Plate Assembly	22 13 1
353-550	Plug Assembly	17 13 1	353-922	Seal Ring - Pump	22 14 8
353-563	Fitting - Straight	12 25 1	353-923	Plate Assembly	22 16 2
353-564	90° Fitting	13 53 1	353-927	Cover Assembly	22 17 1
353-575	Boot - Dust Cap	15 21 2	353-931	Seal - Oil	22 2 1
353-575	Boot - Dust Cap	17 46 3	353-952	Ring - Backup	15 32 1
353-579	Spring	15 45 1	353-953	Plug Assembly	18 54 1
353-586	Bearing - Needle	14 13 4	353-957	Seal - Lip	17 15 6
353-588	Cover - Motor	14 3 1	353-957	Seal - Lip	15 26 4
353-591	Block - Anti-Extrusion	14 8 1	353-958	Ring - Backup	17 16 1
353-592	Drive Shaft Assembly	14 16 1	353-961	Flange Adaptor	12 31 1
353-593	Idle Gear Assembly	14 7 1	353-962	Cap and Chain Assembly	12 34 1
353-594	Seal Assembly	14 14 1	353-963	Gasket	12 37 2
353-595	Wear Plate	14 15 1	353-964	Gear - 66B	22 8 2
353-596	O-Ring	14 17 1	353-965	Idle Shaft Assembly	22 9 1
353-597	Bridging - Insert	14 5 1	353-966	Screw - Cap, Hex Hd.	22 18 4
353-598	Gasket - Insert	14 6 1	353-967	Gear - 33B	22 20 5
353-599	Pin - Dowel	14 4 2	353-968	Dowel	22 21 6
353-600	Washer	14 2 4	353-969	Gear Plate - 30B	22 15 3
353-600	Washer - Flat	22 19 4	353-970	Dowel	22 6 2
353-601	Screw - Hex Socket Hd.	14 1 4	353-971	Gear Plate - Pump	22 7 1
353-642	Relief - RC Mod.	16 * 2	353-972	Shaft - Drive	22 10 1
353-642	Relief - RC Mod. Assembly	18 * 1	354-25	Section #4 Assembly	18 * 1
353-668	Plate - Cap, Cover RH	17 11 1	354-26	Bonnet	17 27 2
353-721	Plug	15 35 2	354-28	Screw - Hex, Socket Hd.	17 28 2
353-727	Bonnet	15 2 1	354-29	Plate - Thrust	15 48 1
353-728	Sleeve	16 49 1	354-122	Disc - Seal	18 52 1
353-729	Spud - Detent	15 3 1	354-129	Anticavitation Check Assy.	18 * 1
353-730	Spring	17 42 1	354-131	Section #3 Assembly	18 * 1
353-731	Ball	17 43 1			

*Not Illustrated

PRODUCT CHANGES

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

IDENTIFICATION AND ORDERING

MODEL AND NUMBERS

The Greensmaster 3000 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Greensmaster 3000 supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer supply the following information:

1. Model and serial number of the Greensmaster 3000.
2. Part number description and the quantity of part(s) desired.

NOTE: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

TABLE OF CONTENTS

Description	Page	Description	Page
Foot Pedals and Roller Assembly	1-3	Control Valve Assembly No. 84-2203	
Hydraulic Cylinder No. 84-8290	4	Section 3 thru 5	17-18
Wheel and Brake Assembly	5	Gas Tank, Battery and Caster Wheel	
Hydraulic Drive Motor No. 75-9990	6	Assembly	19-20
Frame Assembly	7-8	Engine and Wiring Diagram	21
Rear Hydraulic Cylinder No. 83-7000	9	Traction Pump No. 62-2300	22
Steering and Seat Assembly	10	Hydraulic Systems Diagram	23
Instrument and Panel Assembly	11	Special Tools	24-25
Valve Bank and Hydraulic Reservoir Assy. ...	12-13	Engine Assembly	
Reel Motor No. 70-9800	14	Kohler Model M16S-711533	26-34
Control Valve Assembly No. 84-2203		TORO Part Number Index	35-39
Section 1 and 2	15-16		