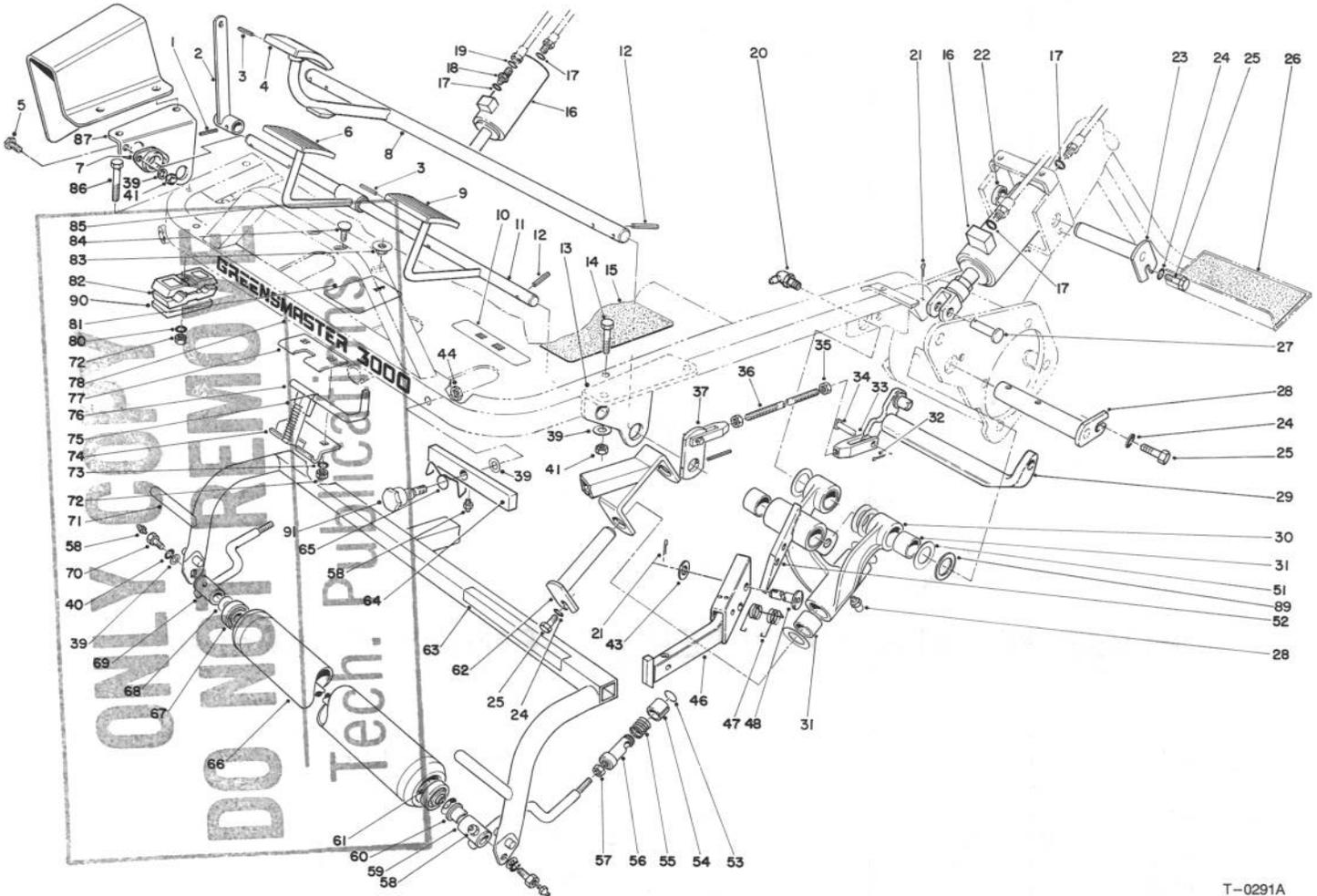




MODEL NO. 04350 - 40001

PARTS
CATALOG

GREENSMASTER® 3000
TRACTION UNIT

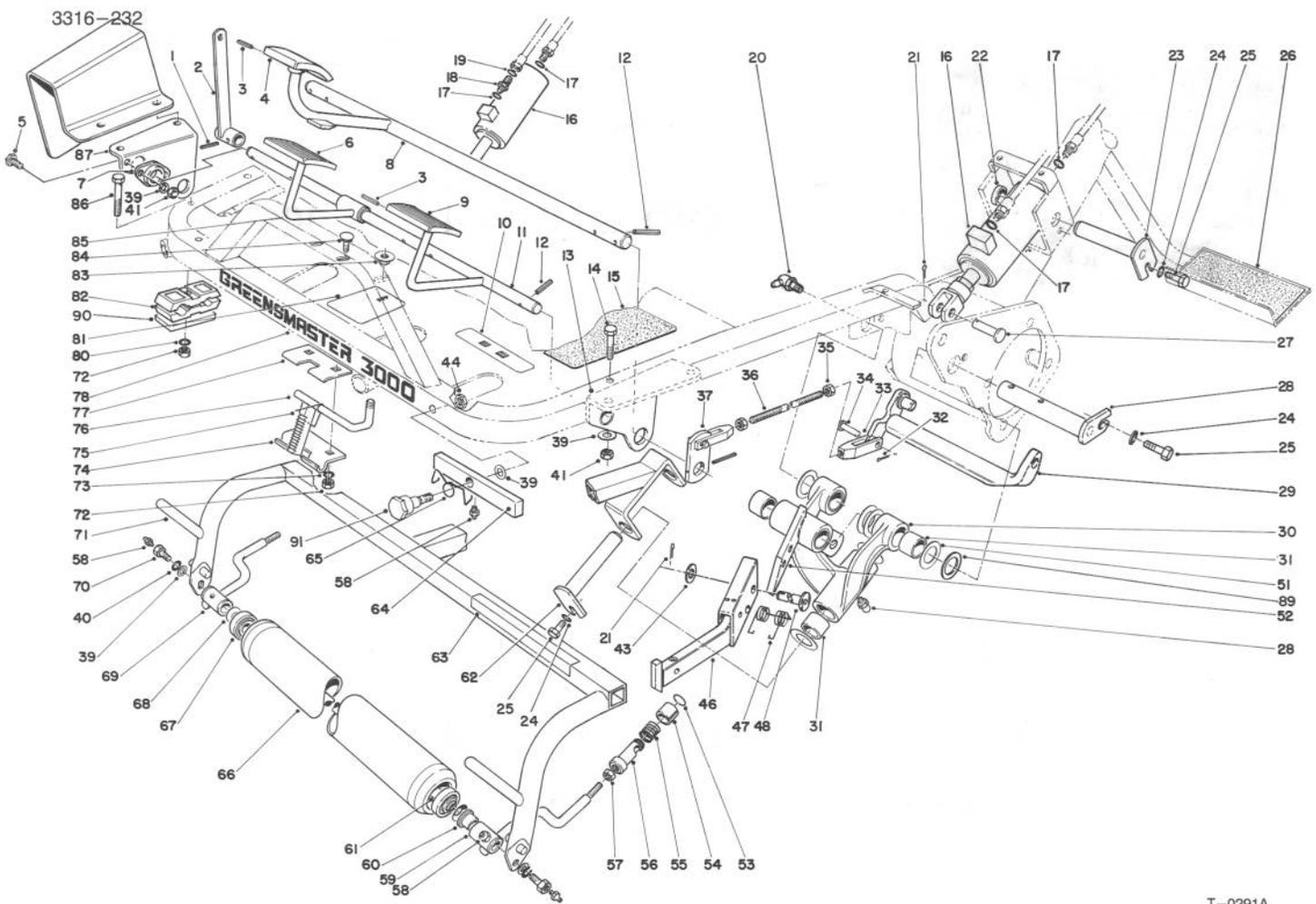


T-0291A

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

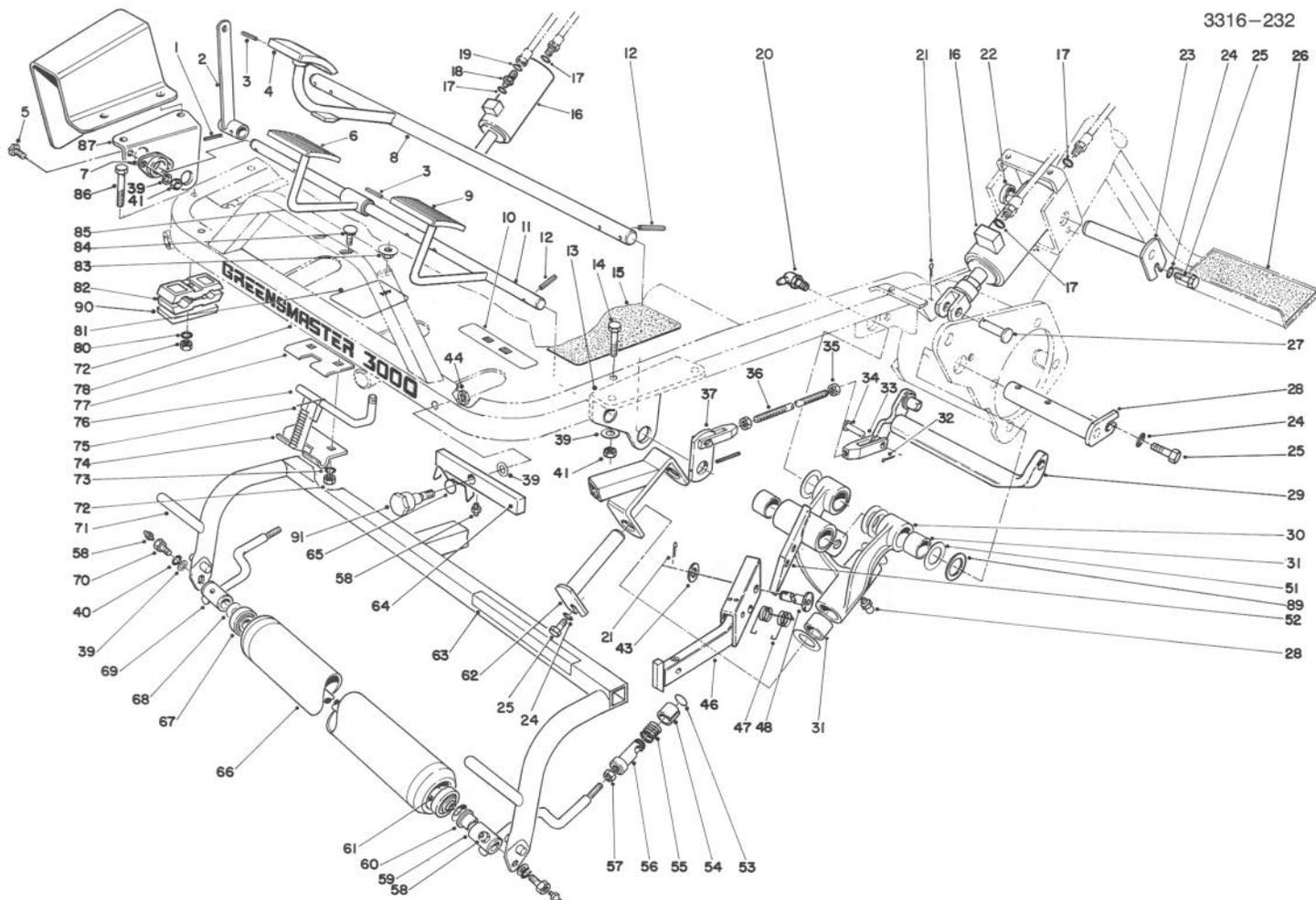


T-0291A

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	86-9810	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

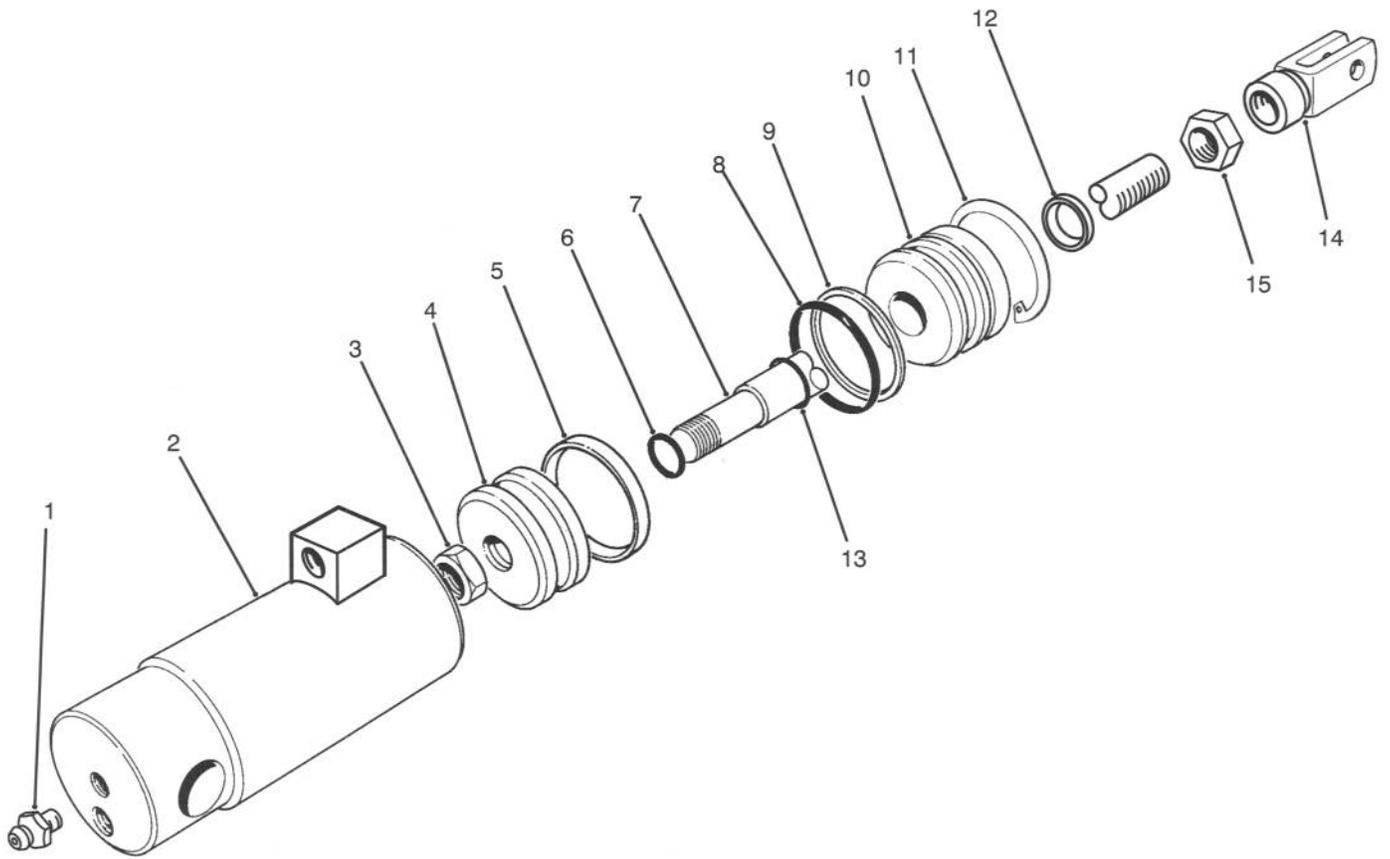


T-0291A

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	321-11	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



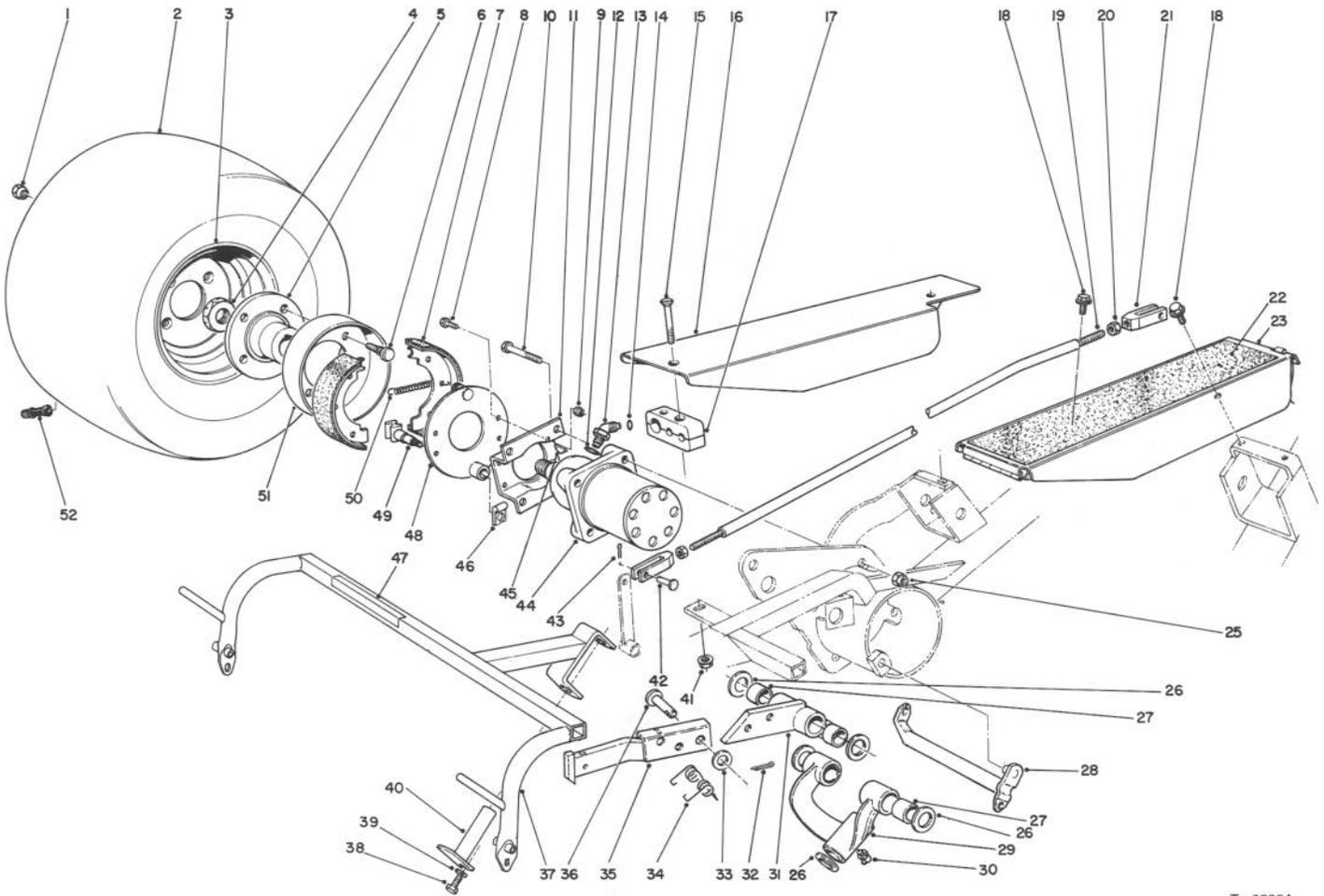
T-1373

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

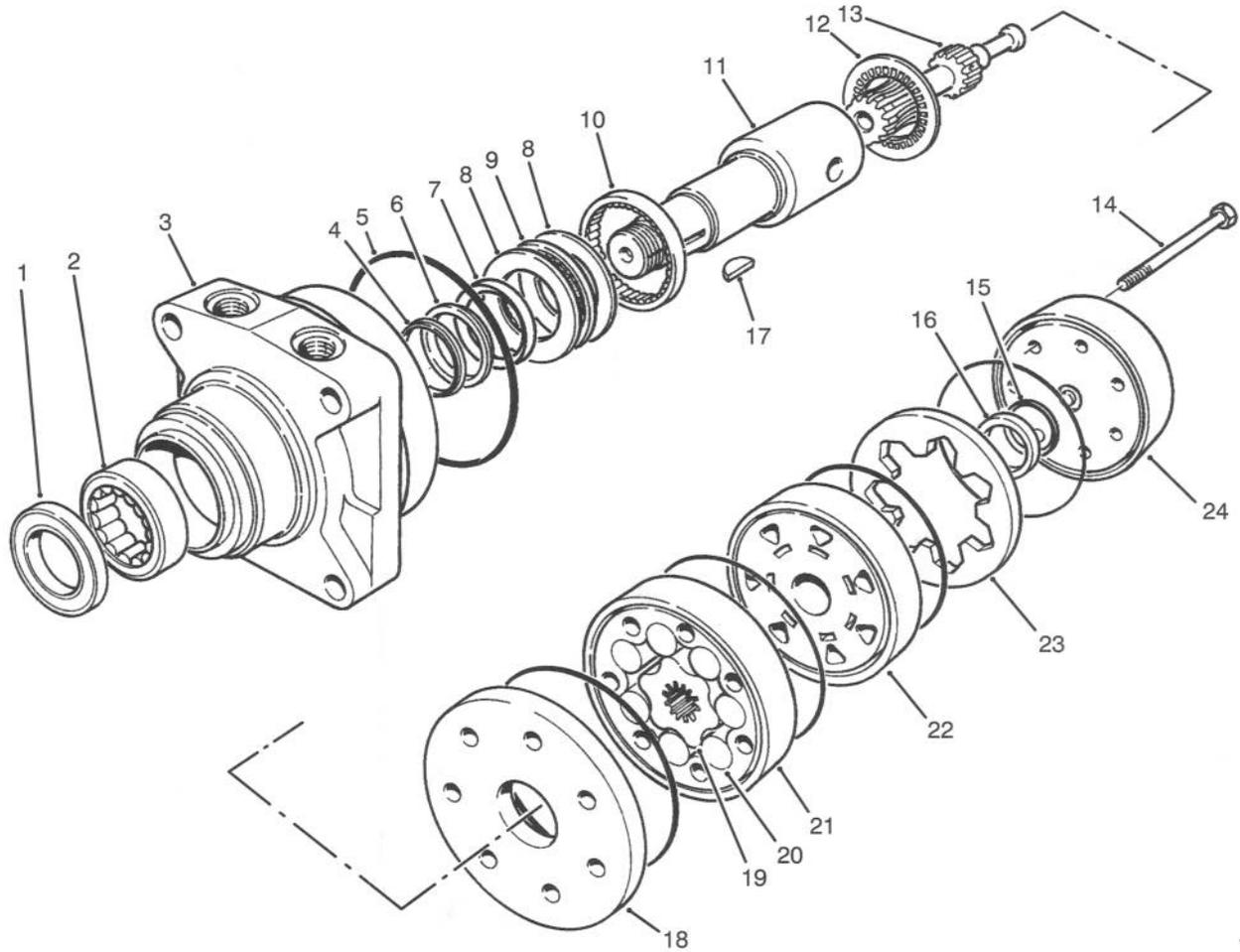
WHEEL AND BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	242-50	Nut - Wheel	8
2	28-3680	Tire	2
*	231-124	Tire - Treaded	2
*	62-2580	Spacer	2
3	217-60	Rim	2
4	26-3790	Nut - Lock	2
5	10-6870	Hub - Wheel	2
6	85-6540	Stud - Drive Type	8
7	70-9840	Shoe & Lining Assembly	4
8	321-5	Screw - Cap, Hex. Hd.	8
9	3296-42	Nut - Lock	8
10	325-11	Screw - Cap, Hex. Hd.	8
11	84-2000	Bracket - Brake	2
12	237-80	O-Ring	4
13	340-14	Fitting (Incl. Ref. #12 & 14)	4
14	237-65	O-Ring	4
15	32108-100	Screw - Mach. Phillips Hd.	3
16	49-5450	Plate - Cover	1
17	57-6140	Clamp - Tube Side	4
18	3234-4	Screw - Cap, Hex. Hd.	4
19	49-5430	Rod - Control	1
20	3220-2	Nut	2
21	282-2	Yoke	2
22	10-8220	Pad - Tool Box	1
23	49-5410	Box - Tool	1
25	3296-23	Nut - Lock	8
26	10-8110	Washer - Thrust	6
27	3-0348	Bushing	6

Ref. No.	Part No.	Description	No. Used
28	71-1510	Arm - Brake R.H.	1
29	10-7820	Hinge - Pivot (Incl. Ref. #27 & 30)	1
30	302-60	Fitting - Grease	1
31	62-2440	Arm - Lift, R.H.	2
32	3272-11	Pin - Cotter	2
33	3256-26	Washer - Flat	3
34	57-7650	Spring - Torsion	2
35	62-2420	Bar - Arm, Lift	1
36	63-8750	Pin - Pivot	2
37	86-9820	Frame - Pull, R.H.	1
38	322-1	Screw - Cap, Hex. Hd.	1
39	3253-4	Washer - Lock	1
40	10-6090	Pin - Pivot	1
41	3296-16	Nut - Lock, Flange	3
42	283-1	Pin - Clevis	2
43	3272-6	Pin - Cotter	2
44	75-9990	Motor - Hydraulic	2
45	3257-42	Key - Woodruff	2
46	70-9850	Clip - Retainer	2
47	62-5070	Decal - Danger	1
48	70-9870	Plate - Backing, Brake	2
49	70-9860	Shaft - Cam	2
50	70-9880	Spring	4
51	10-6821	Drum Assy. (Incl. Ref.#5-6)	1
52	232-24	Valve Stem w/Cap	2
*	71-1500	Brake Assembly (Incl. Ref. #7, 46, & 48-50)	2
*†	232-37	Inner Tube - Heavy Duty	2

*Not Illustrated

†Service Replacement Part

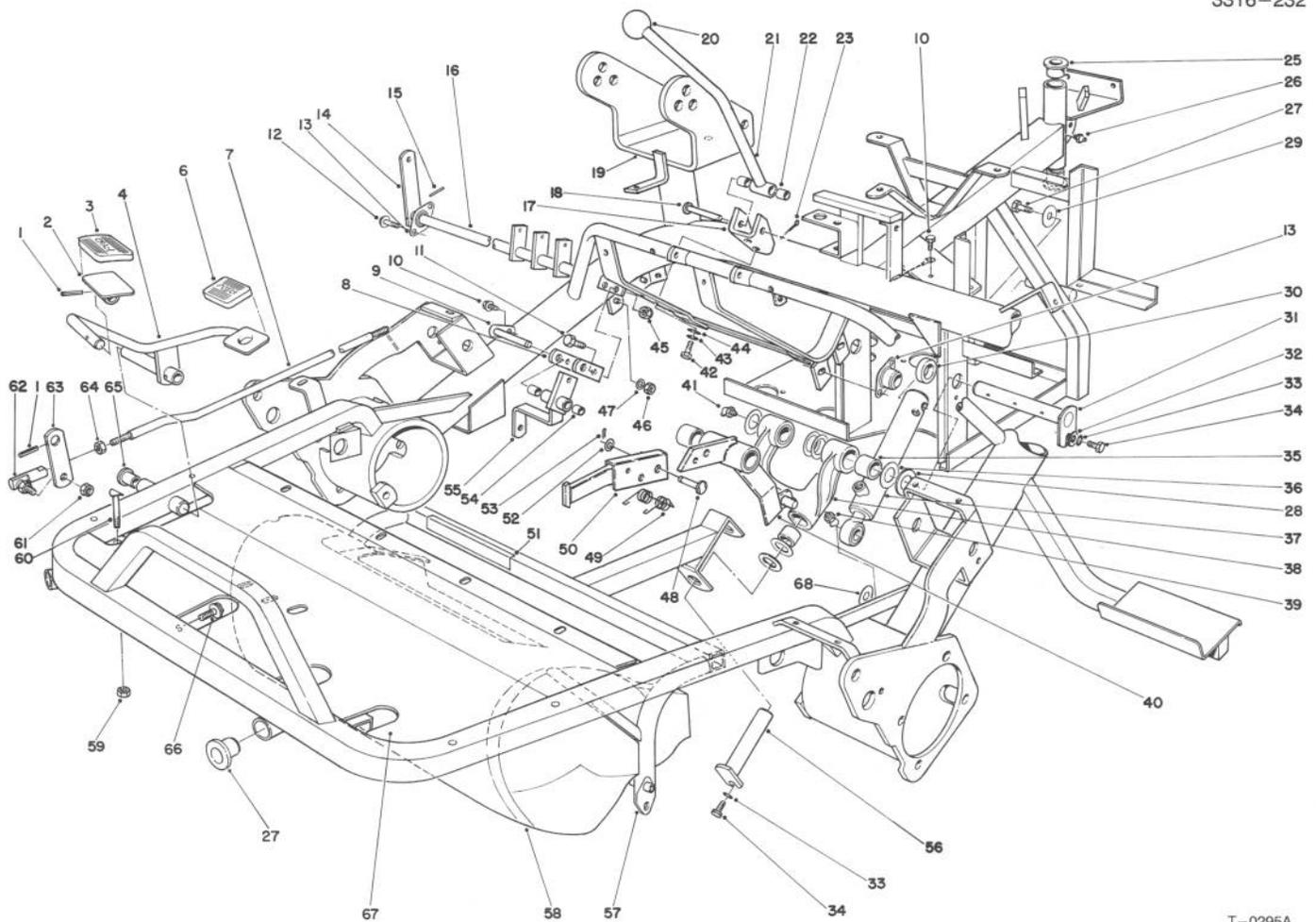


T-0987

HYDRAULIC DRIVE MOTOR NO. 75-9990

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1		Seal - Dirt & Water	1	17	3257-42	Key - Woodruff	1
2		Bearing	1	18	76-0870	Plate - Wear	1
3		Housing	1	19		Rotor	1
4		Washer - Backup	1	20		Vane	7
5		Seal Rings	5	21		Stator	1
6		Washer - Backup	1	22	76-0840	Manifold	1
7		Seal - Inner	1	23		Ring - Commutator	1
8		Washer - Thrust	2	24	76-0940	End Cover Assembly	1
9		Bearing - Thrust	1	*	76-0970	Rotor Set (Incl. Ref. #19-21)	1
10		Bearing	1	*	76-0880	Commutator Assembly (Incl. Ref. #15, 16 & 23)	1
11	76-0860	Shaft - Coupling	1	*	76-0800	Seal Kit (Incl. Ref. #1, 4-7 & 15)	1
12	76-0850	Bearing - Thrust	1	*	76-0810	Housing Assembly (Incl. Ref. #2, 3 & 8-10)	1
13	76-0960	Link - Drive	7				
14	76-1010	Screw - Cap, Hex. Hd.	1				
15		Seal - Commutator	1				
16		Commutator	1				

*Not Illustrated

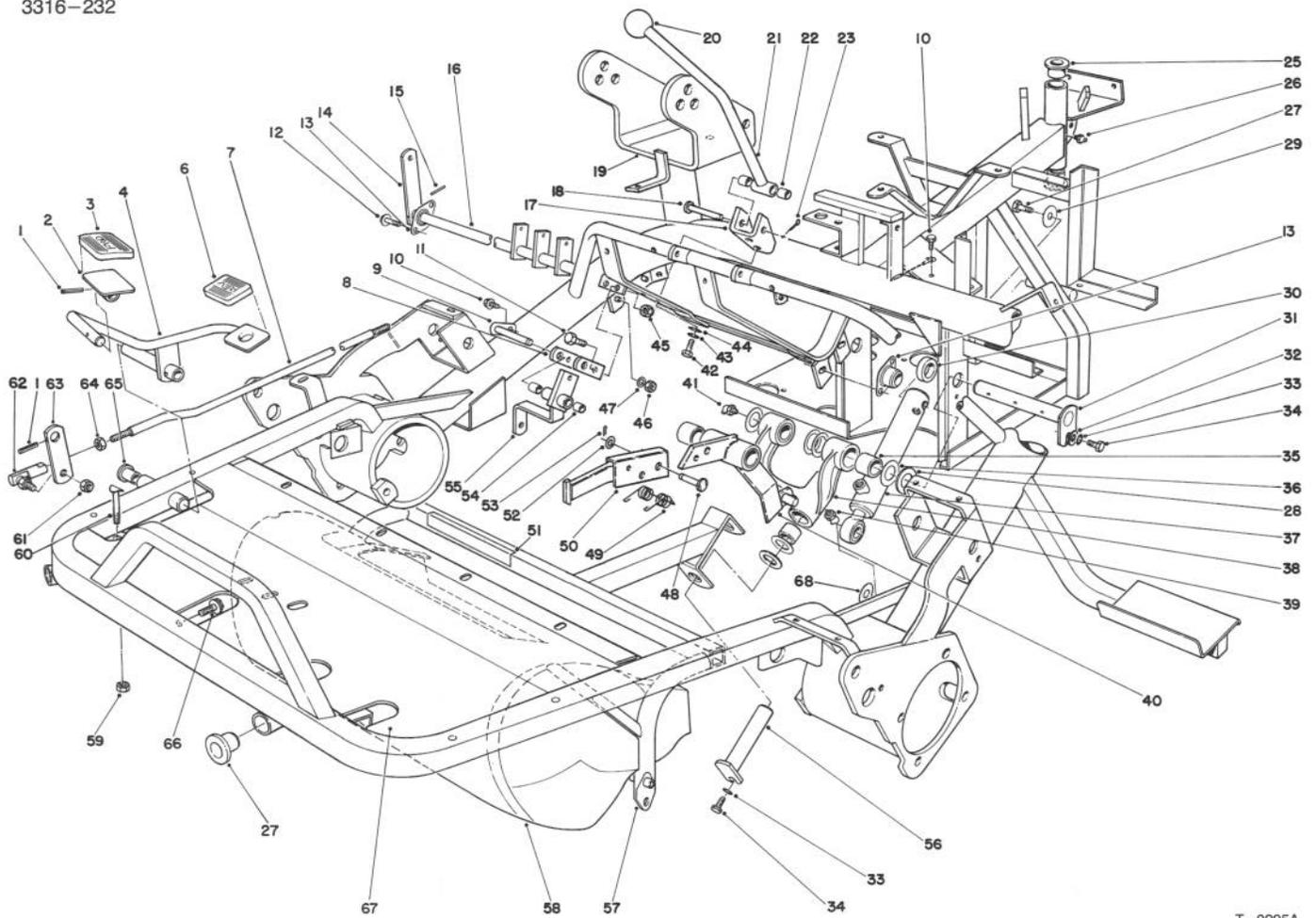


T-0295A

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32121-45	Pin-Roll	2
2	49-6440	Pedal - Accelerator	1
3	49-6470	Pad - Pedal Forward	1
4	83-0540	Rod - Accelerator	1
5	32121-45	Pin-Roll	1
6	49-6430	Pad - Pedal Reverse	1
7	49-6320	Rod - Traction Control	1
8	49-6250	Bracket - Traction Pivot	1
9	49-6290	Shaft - Traction Pivot	1
10	12-3270	Screw - Pentafllo	1
11	322-5	Screw - Cap, Hex Hd.	2
12	3234-1	Screw - Flange, Hex. Hd.	4
13	27-2320	Side Flange - Bearing	2
14	47-5320	Lever - Cutting Control	1
15	32121-6	Pin - Roll	1
16	44-0870	Camshaft - Rear	1
17	49-6220	Bracket - Control Arm	1
18	283-57	Pin - Clevis	1
19	92-1192	Frame (Incl. Ref. #25 & 65)	1
20	233-48	Knob	1
21	68-5930	Handle - Traction (Incl. Ref. #22)	1
22	256-251	Bushing	2
23	3272-4	Pin - Cotter	1
25	256-290	Bushing	2

Ref. No.	Part No.	Description	No. Used
26	302-5	Fitting - Grease	1
27	83-1700	Bushing - Flange	3
28	5-1226	Washer	A/R
30	27-2540	Spacer - Hub	1
31	27-2550	Pin - Hinge	1
32	3256-23	Washer - Flat	1
33	3253-4	Washer - Lock	2
34	322-1	Screw - Cap, Hex Hd.	2
35	3-0348	Bushing	6
36	10-8110	Washer-Thrust	6
37	83-7000	Hydraulic Cylinder Assy.	1
38	10-7820	Pivot Hinge (Incl. Ref. #35)	1
39	302-60	Fitting - Grease	1
40	88-9670	Lift Arm - Center (Incl. Ref. #35)	1
41	302-11	Fitting - Grease	1
42	3211-1	Screw - Cap, Hex Hd.	2
43	3254-6	Washer - Lock	2
44	3256-24	Washer - Flat	2
45	3296-29	Nut - Lock	2
46	3296-59	Nut - Lock	4
47	3256-24	Washer - Flat	4
48	63-8750	Pin - Pivot	1
49	57-7650	Spring - Torsion	1

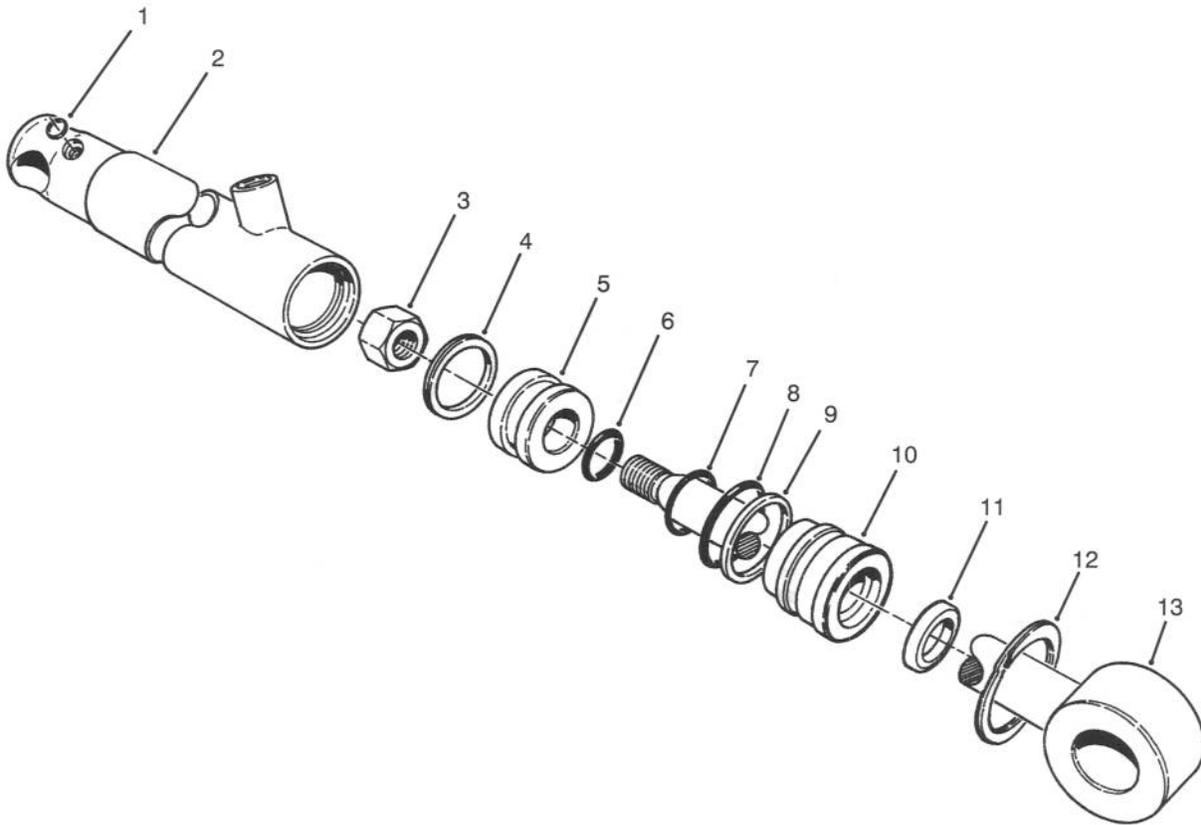


T-0295A

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



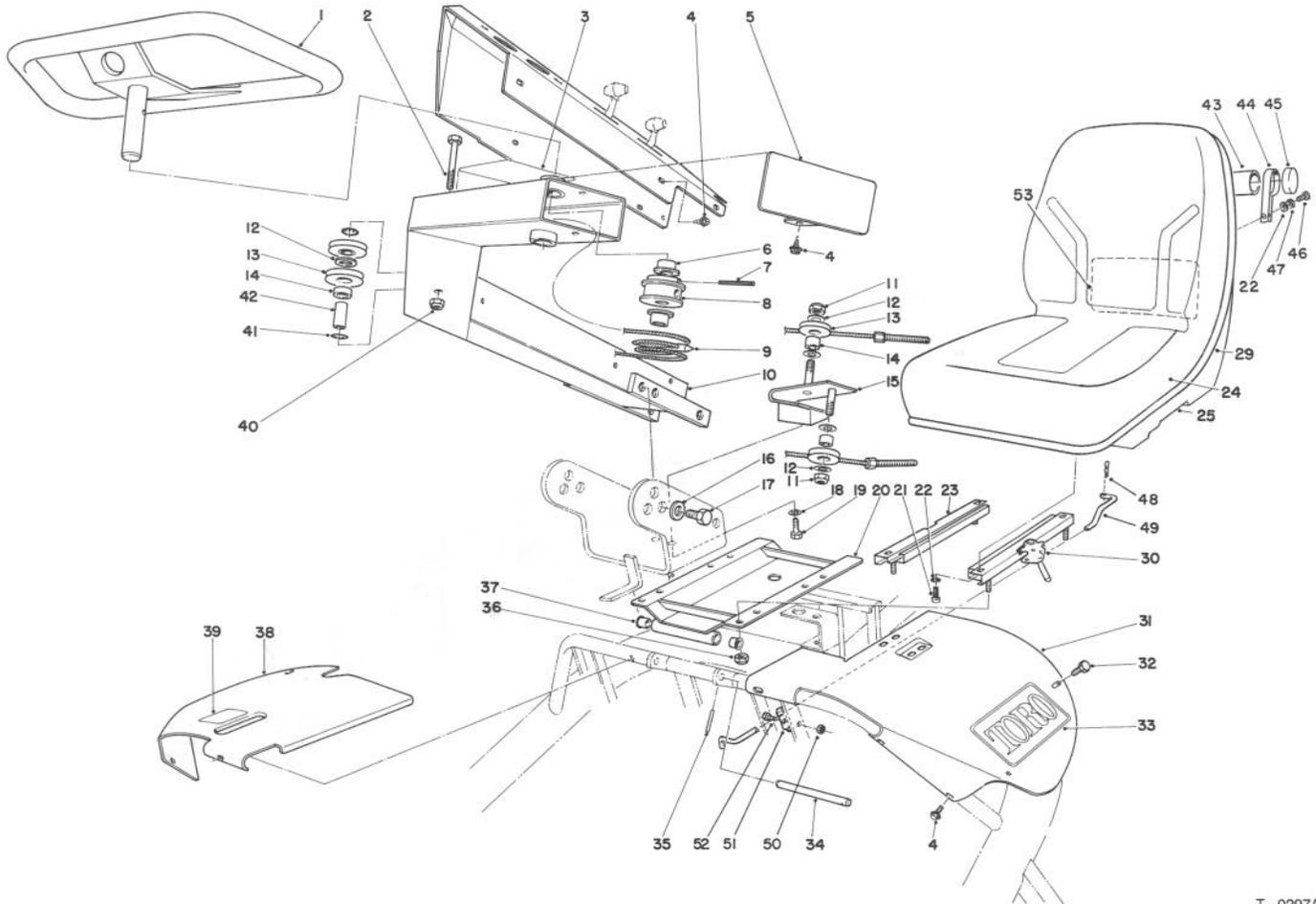
T-0217

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



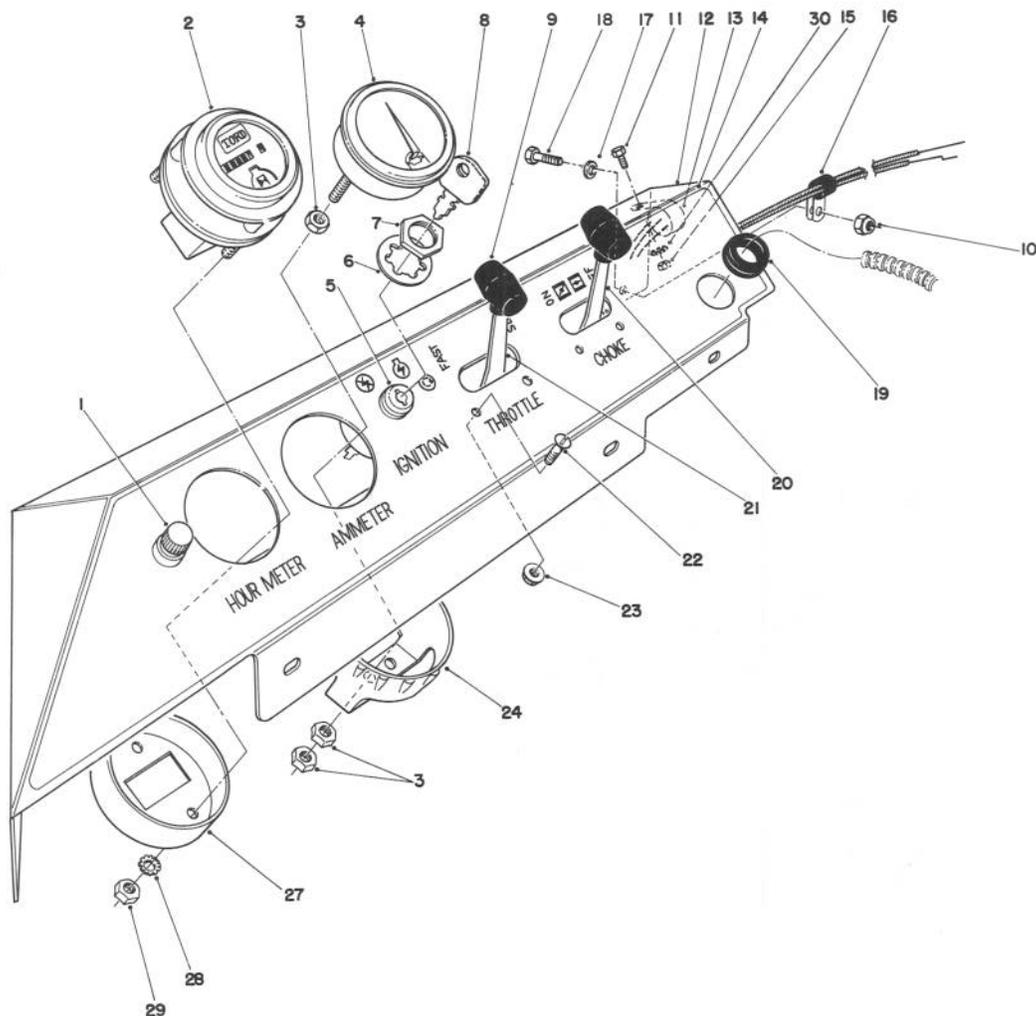
T-0297A

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



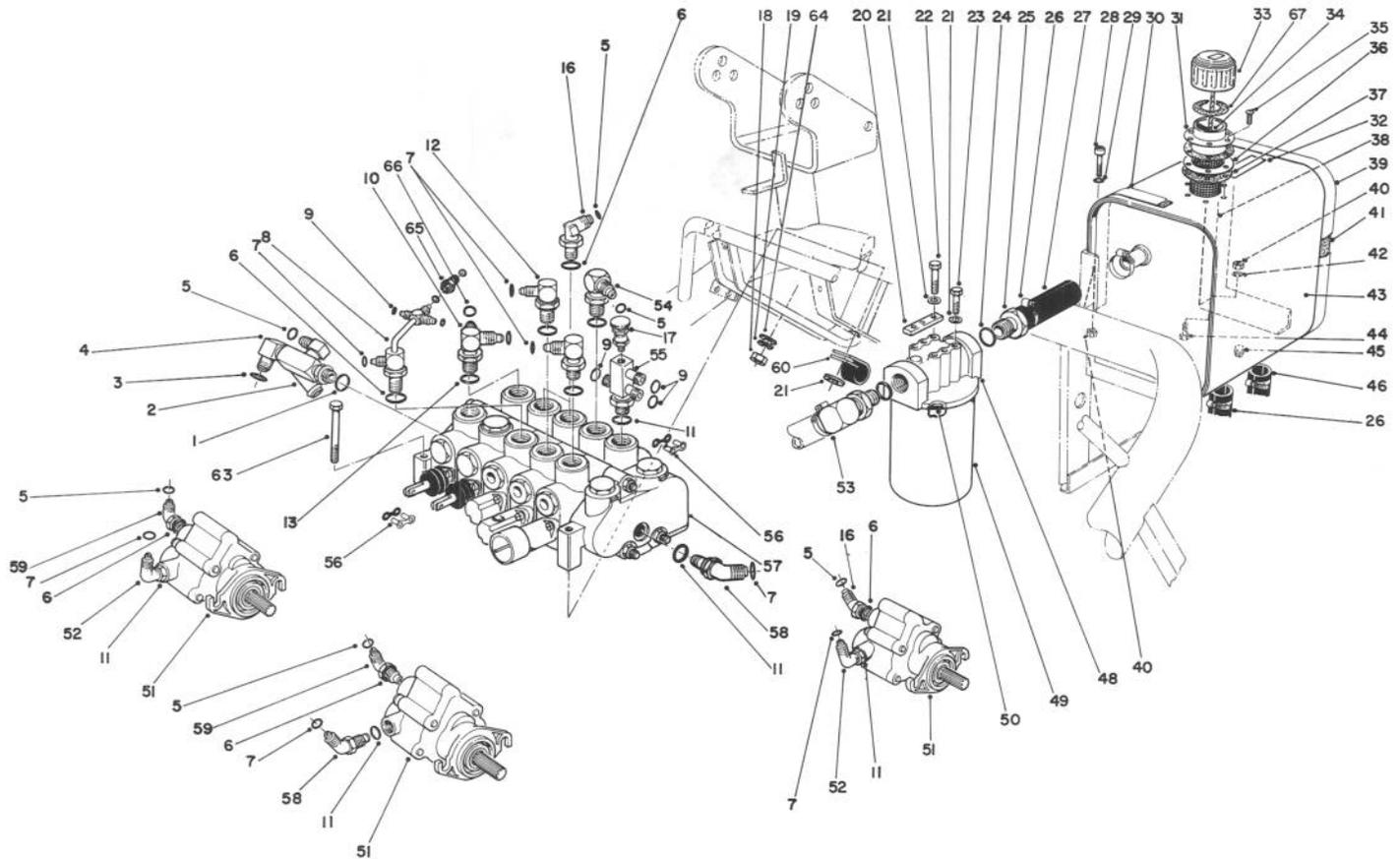
T-0298

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

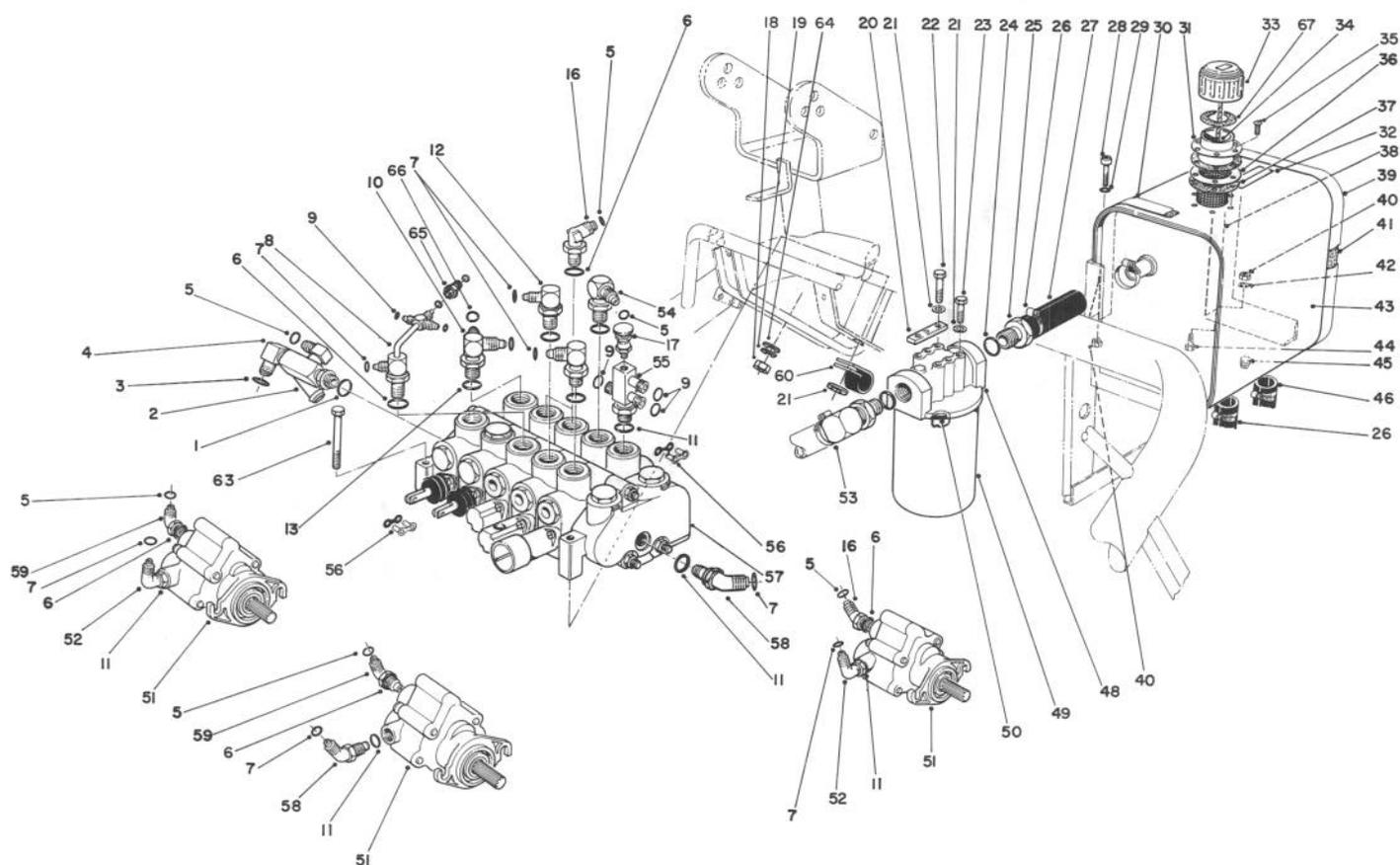


T-0299

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



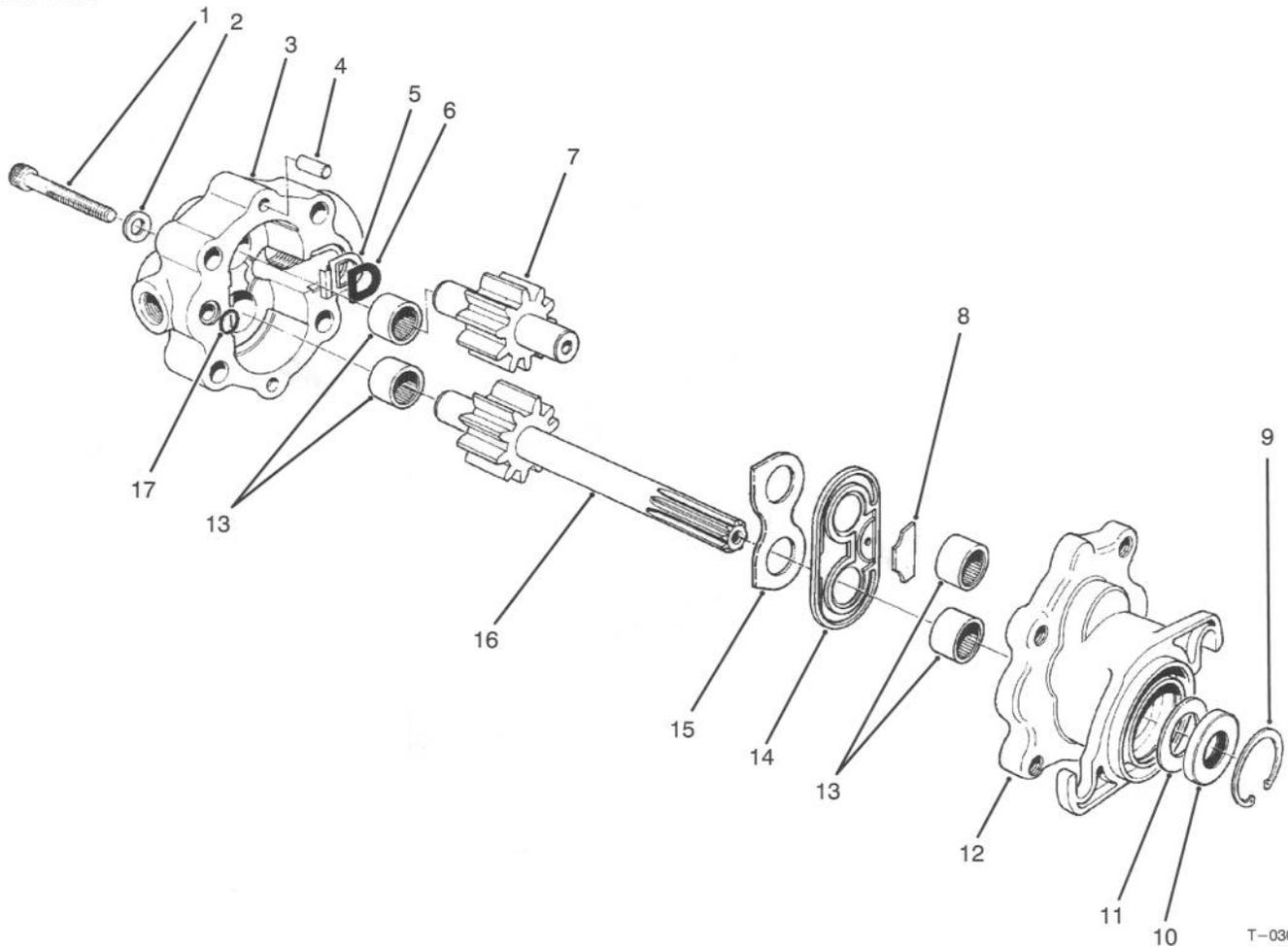
T-0299

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	70-9800	Reel Motor	3
52	340-77	90° Elbow	3
53	353-564	90° Fitting	1
54	63-4090	90° Fitting - Extended	1
55	92-0587	Fitting - Hydraulic Valve (Incl. Ref. #9 & 11)	1
56	57-6220	Link Connector	5
57	84-2202	Control Valve	1
58	340-87	45° Fitting	2
59	340-98	90° Elbow	2

Ref. No.	Part No.	Description	No. Used
60	304-61	Clamp	1
63	322-14	Screw - Cap, Hex Hd.	3
64	3254-2	Washer - Lock, Int. Tooth	1
65	71-0990	Fitting - One Way Orifice	1
66	237-65	O-Ring	4
67	76-1720	Gasket - Filler Cap	1
*	88-9500	Needle Valve Assembly (Incl. Ref. #9, 11, 17 & 55)	1
*	44-2500	Hydraulic Oil Dye	1

*Not Illustrated

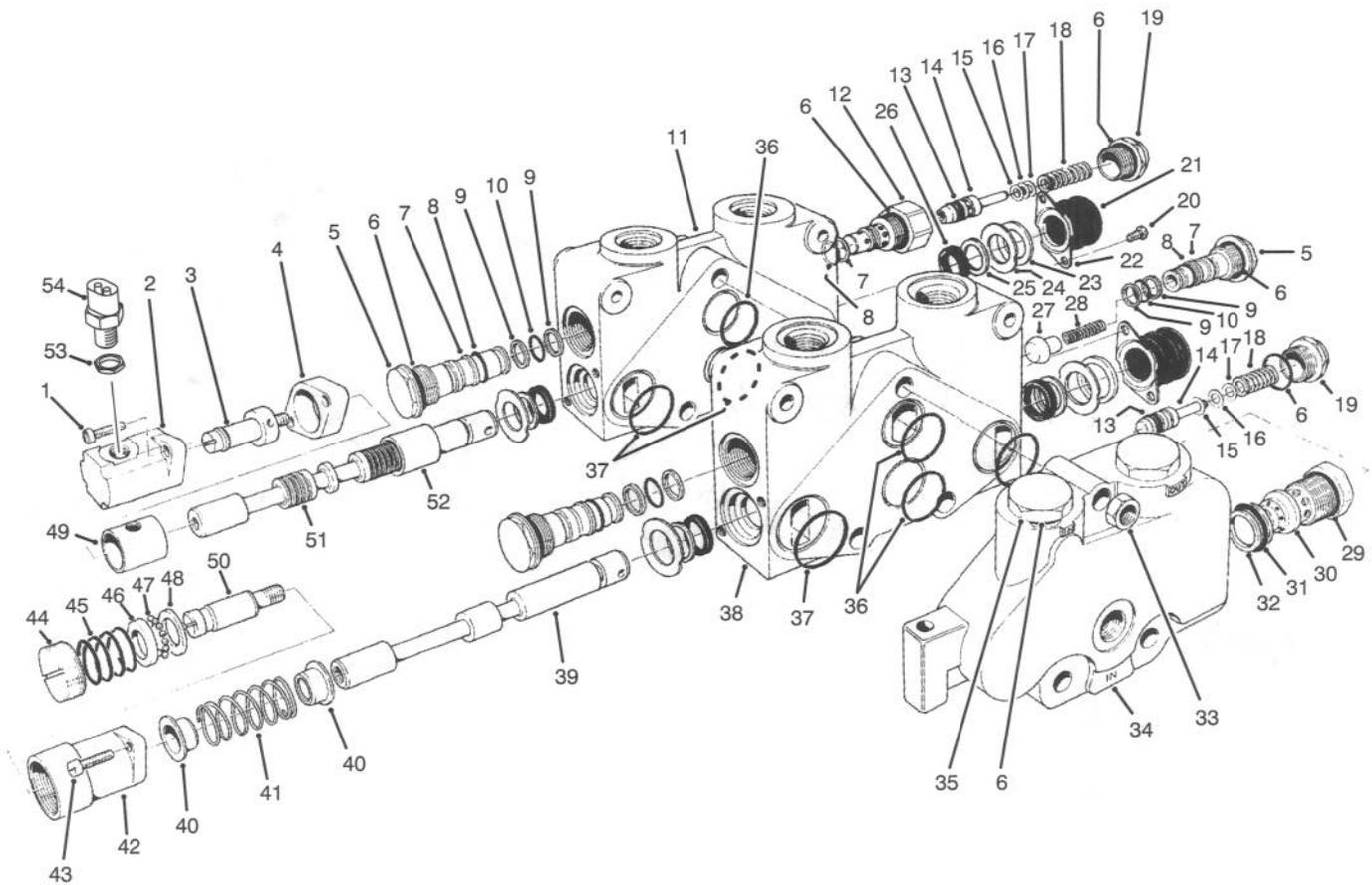


T-0300

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)	

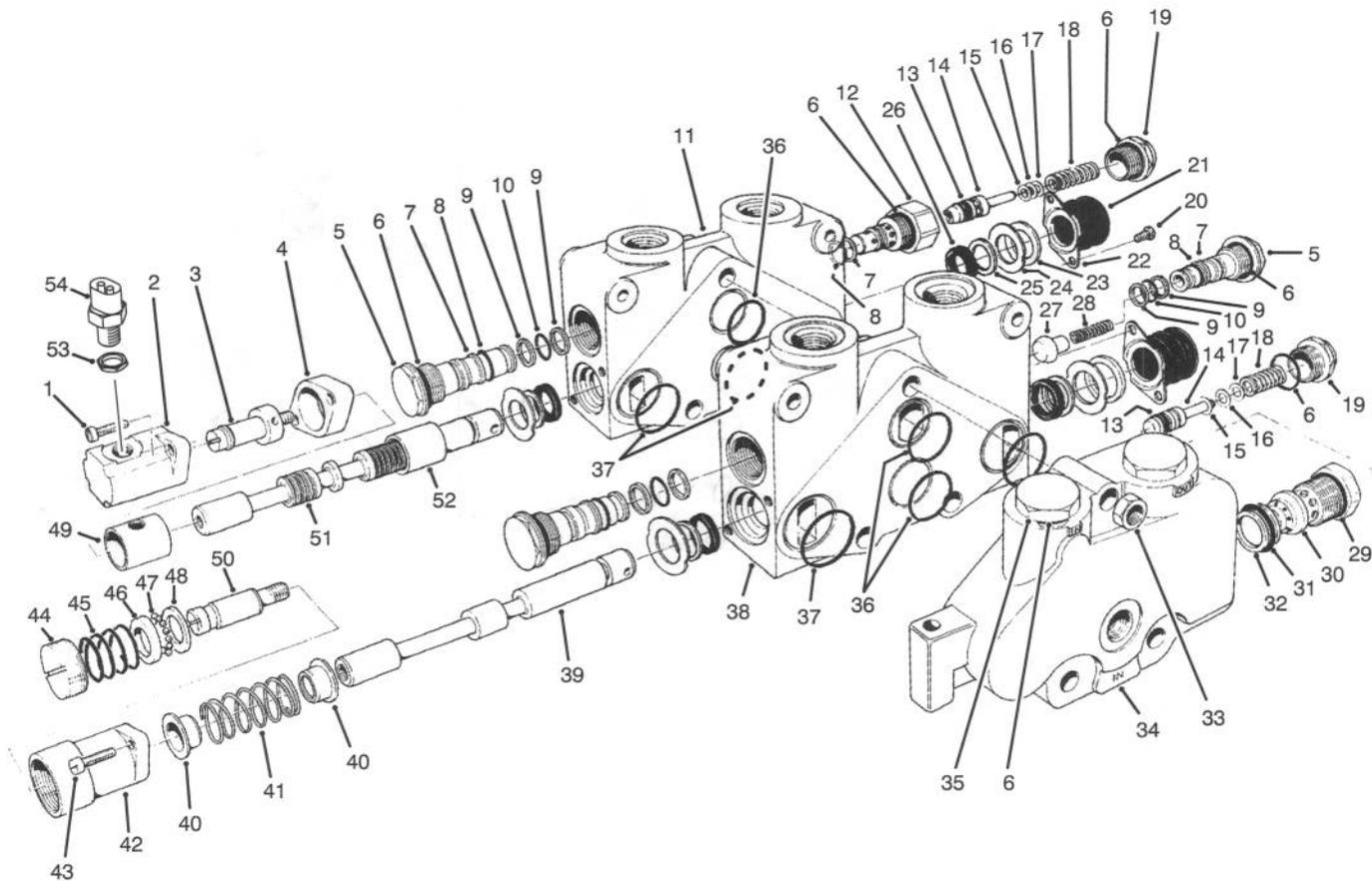


T-1318

CONTROL VALVE ASSY. NO. 84-2202 (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	24	92-2547	Plate - Seal Retainer	4
2	353-727	Bonnet	1	25	92-2546	Wiper - Seal	4
3	353-729	Spud - Detent	1	26	353-957	Seal - Lip	4
4	353-733	Spacer - Bonnet	1	27	353-301	Poppet	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3	28	353-304	Spring	1
6	237-54	O-Ring	8	29	353-331	O-Ring	1
7	353-306	Ring - Backup	4	30	353-760	Body Relief	1
8	353-305	O-Ring	4	31	353-758	Seal - O-Ring	1
9	353-303	Ring - Backup	6	32	353-952	Ring - Backup	1
10	353-302	O-Ring	3	33	3217-7	Nut - Hex	3
11		Housing V20T	1	34	353-772	Left End Cover	1
12	353-851	Body - Relief CP-RC Mod.	1	35	353-721	Plug	2
13	353-392	Seal - Relief Poppet PTFE	2			(Incl. Ref. #6)	
14	353-531	Poppet Assy. (Incl. Ref. #13)	2	†36		O-Ring	3
15	353-328	Washer - Shim	A/R	†37		O-Ring	4
16	353-329	Washer - Shim	A/R	†38		Housing Section #1	1
17	353-330	Washer - Shim	A/R	†39		Spool V20 SPL	1
18	353-855	Spring	2	40	353-417	Collar Spring	2
19	353-334	Cap - Relief	2	41	92-3048	Spring - Centering	1
20	3274-52	Screw - Hex, Socket Hd.	4	42	353-754	Bonnet - R. Detent	1
21	353-575	Boot - Dust Cap	2	43	3274-15	Screw - Fillister Hd.	2
22	353-559	Retainer - Boot	2	44	353-763	Cap - Adjustment	1
23	353-560	Washer - Breather	2	45	353-579	Spring	1
				46	42-2680	Race R. Detent	1
				47	52-5880	Ball - Steel	12

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



T-1318

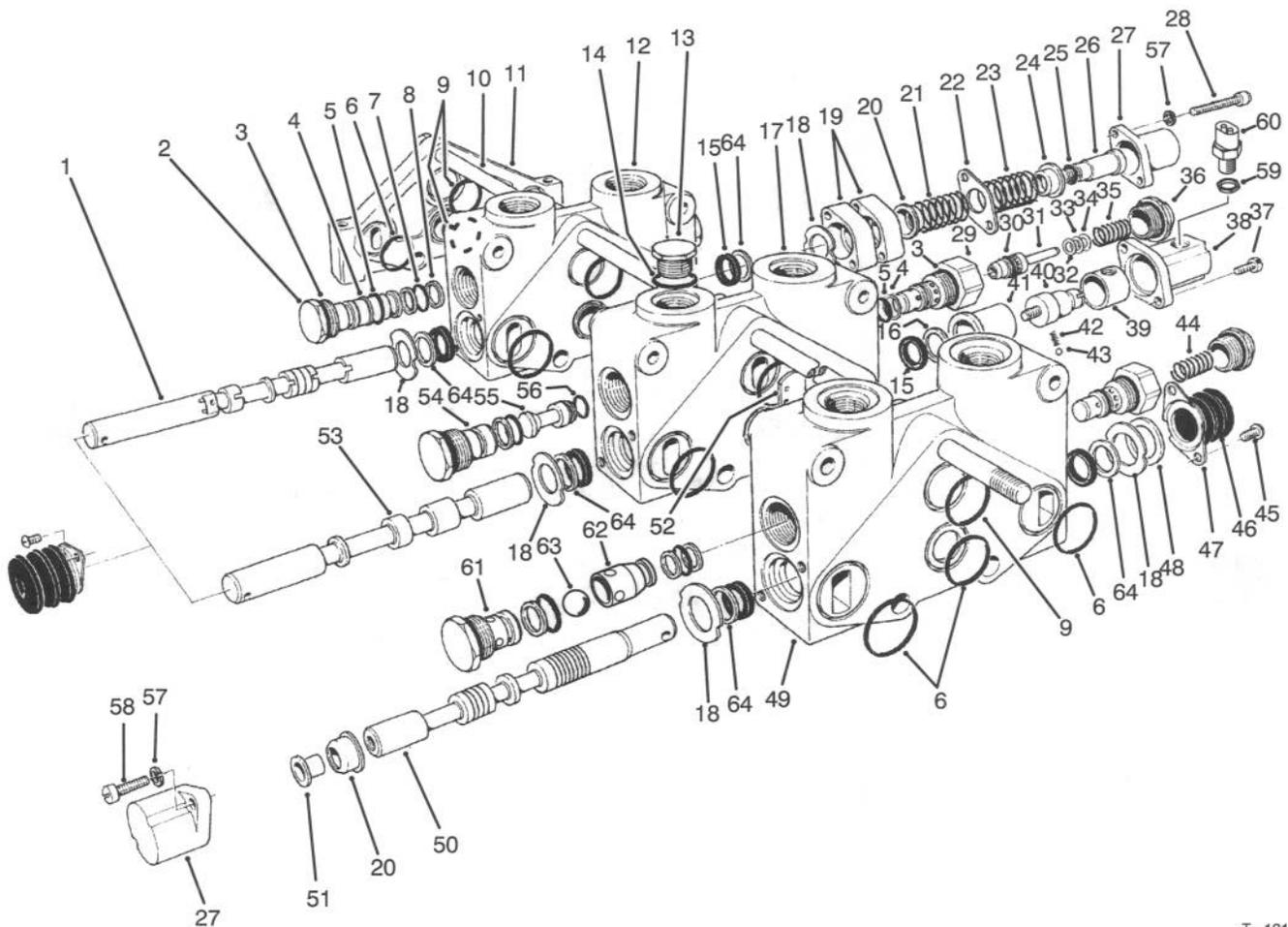
CONTROL VALVE ASSEMBLY NO. 84-2202 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
48	354-29	Plate - Thrust	1
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
*54	353-780	Positioner - R. Detent (Out)	1

Ref. No.	Part No.	Description	No. Used
		(Incl. Ref. #3 & 40-49)	1
*	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 Set (Incl. Ref. #24-26)	1
*	353-854	Boot - Spool Assembly (Incl. Ref. #20-23)	2

*Not Illustrated

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



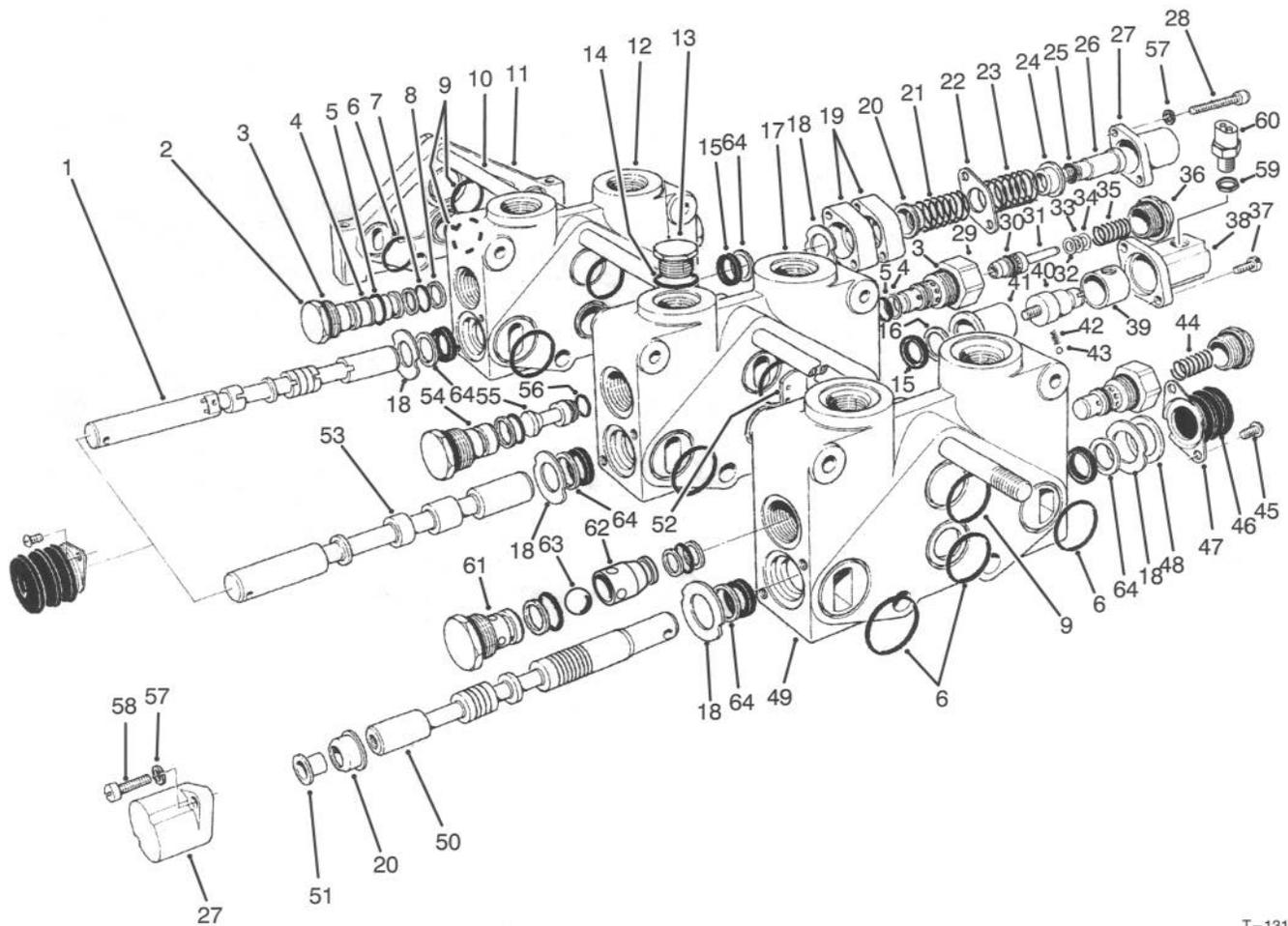
T-1319

CONTROL VALVE ASSY. NO. 84-2202 (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	353-559	Retainer - Boot	3

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



T-1319

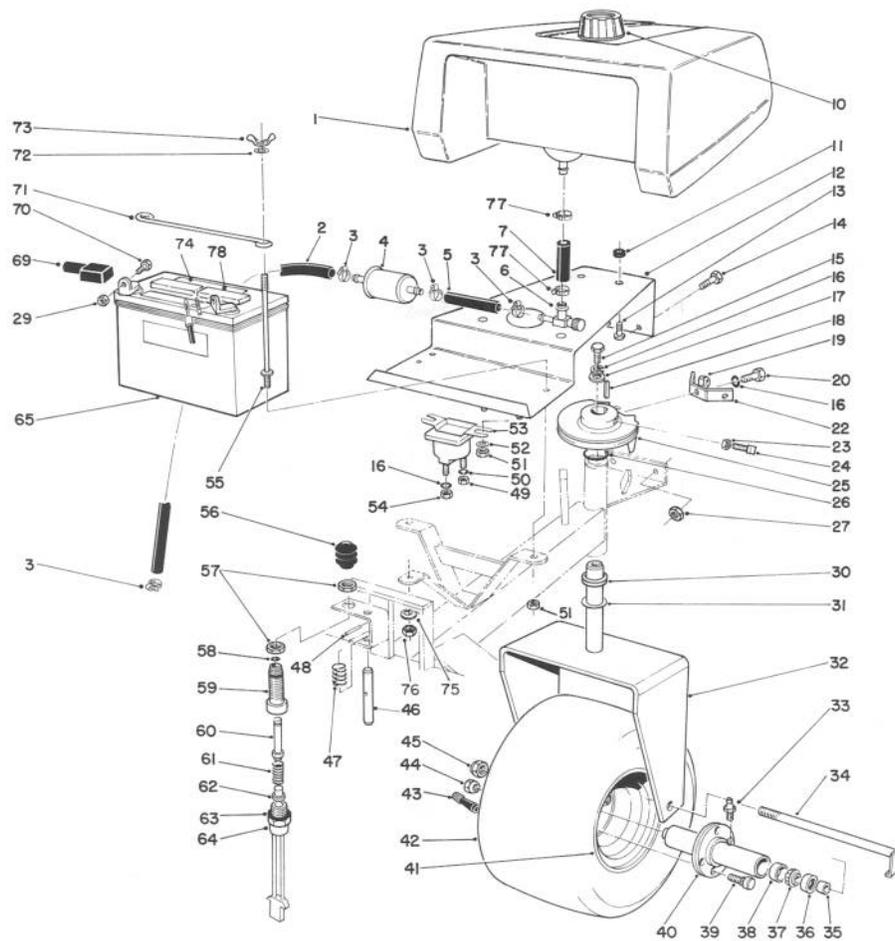
CONTROL VALVE ASSEMBLY NO. 84-2202 (Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
†48	353-560	Washer - Breather	3
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
*	353-854	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
*	353-834	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
*	84-2202	Control Valve Assembly Complete	1
*	92-2548	Seals- 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

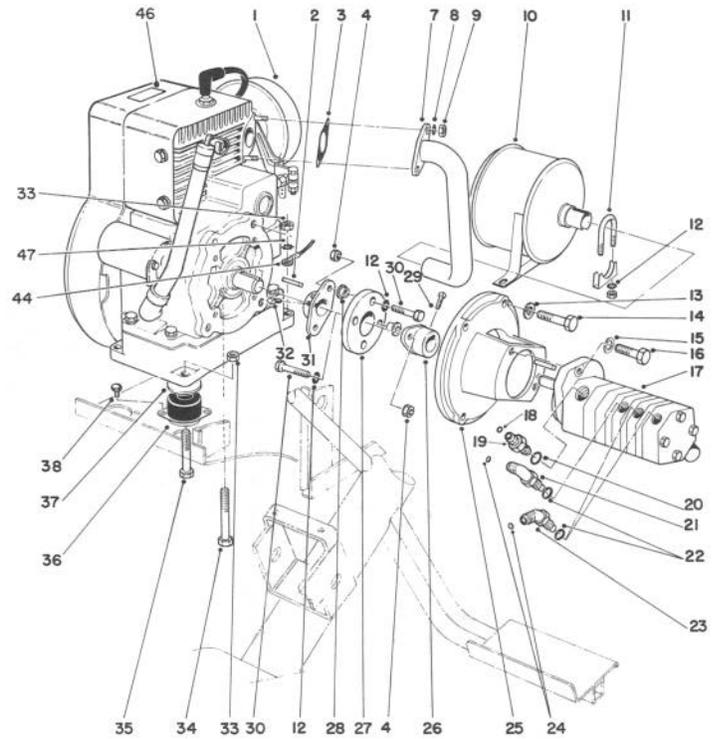
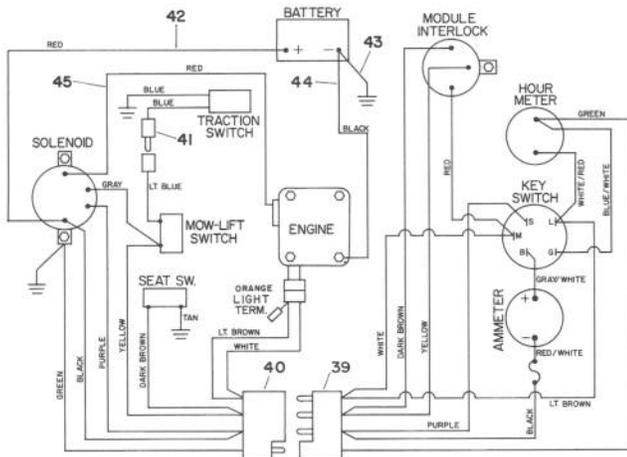


T-0303

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



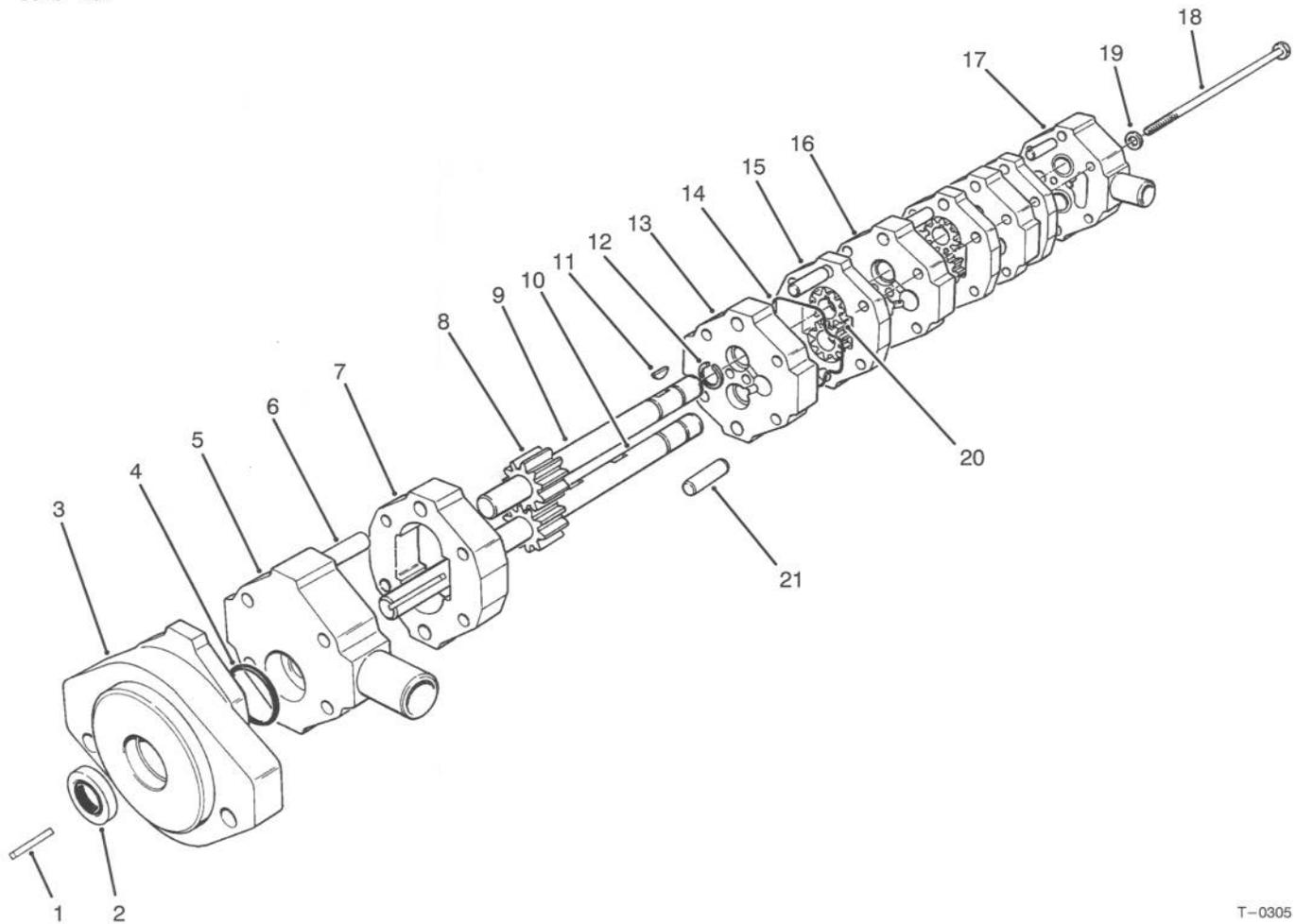
T-0304

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

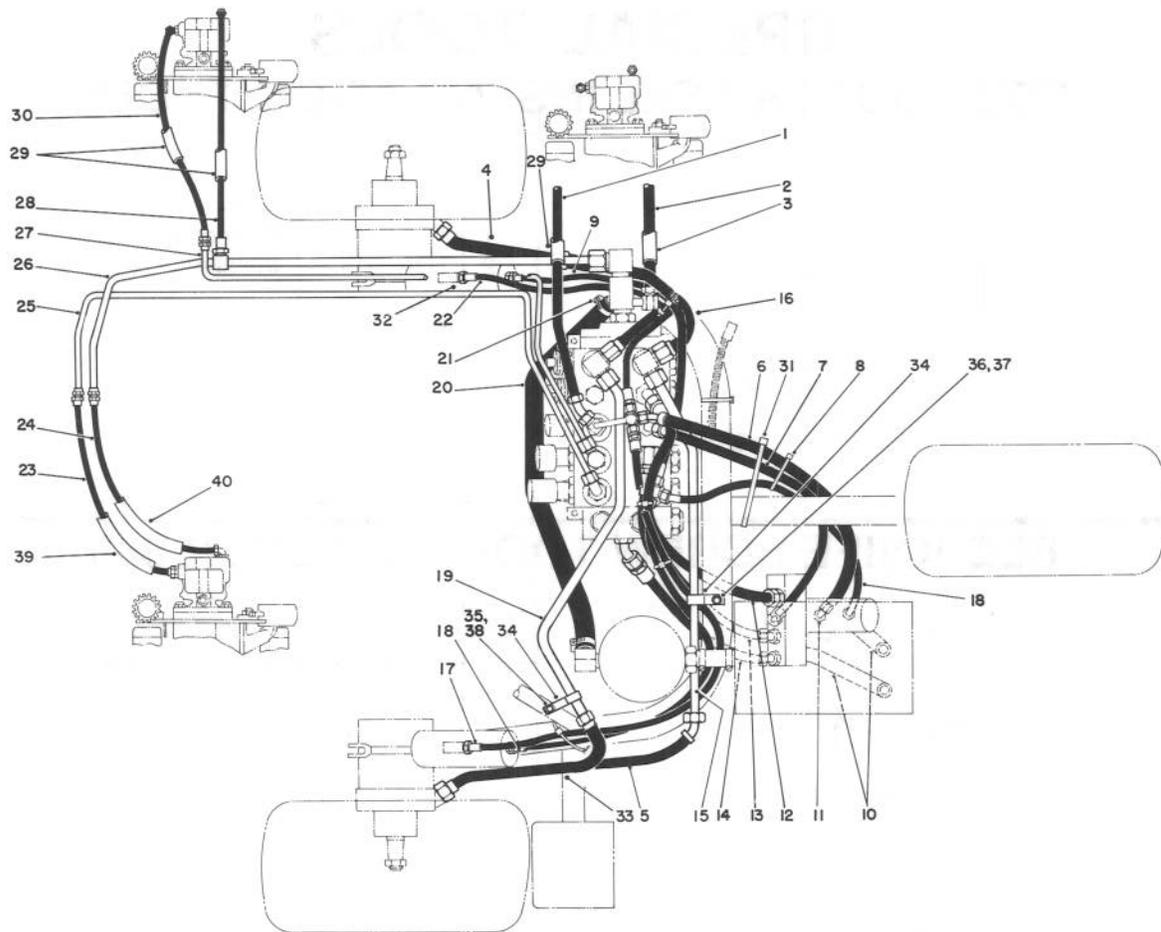


T-0305

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



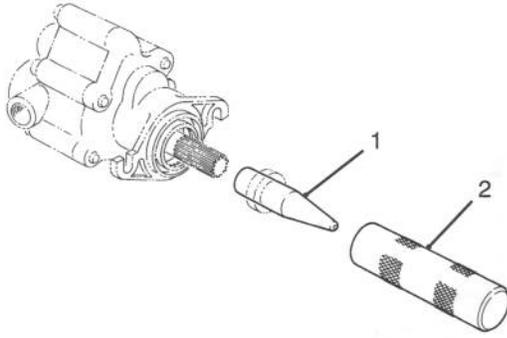
T-0306A

HYDRAULIC SYSTEMS DIAGRAM

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	74-3830	Hose - Pressure, Rear (Incl. Ref. #29)	1	23	63-3870	Hose - Pressure L.H. (Incl. Ref. #39)	1
2	63-3840	Hose - Return, Rear (Incl. Ref. #3)	1	24	63-3830	Hose - Return L.H. (Incl. Ref. #40)	1
3	56-7981	Splash Shield	1	25	63-4020	Pressure Line Cutting Unit L.H.	1
4	70-8600	Traction Hose - Upper R.H.	1	26	63-4040	Return Line - R.H.	1
5	70-7150	Traction Hose - Lower L.H.	1	27	63-4030	Pressure Line Cutting Unit R.H.	1
6	63-3930	Hose Cylinder - Drop, Rear	1	28	63-3820	Hose - Return R.H. (Incl. Ref. #29)	1
7	63-3900	Hose - Pump #3	1	29	56-7980	Splash Shield	3
8	3290-379	Tie - Cable	6	30	63-3810	Hose - Pressure R.H. (Incl. Ref. #29)	1
9	63-3880	Hose - Cylinder, Lift R.H.	1	31	3333-975	Cable Tie	1
10	27-3040	Hose - Pump/Inlet	2	32	340-92	Fitting - Orifice Str.	1
11	340-103	45° Elbow Adjustable	1	33	70-8610	Hose - Traction, Upper L.H.	1
12	63-3940	Hose - Pump #4	1	34	2412-41	R-Clamp	3
13	63-3910	Hose - Pump #2	1	35	12-3270	Screw - Cap, Hex. Hd.	3
14	63-3920	Hose - Pump #1	1	36	321-3	Screw - Cap, Hex. Hd.	1
15	83-1200	Tube - Traction Lower L.H.	1	37	3296-16	Nut - Lock	1
16	83-2460	Hose - Traction Lower R.H.	1	38	3256-22	Washer - Flat	1
17	63-3850	Hose - Cylinder - Drop L.H.	1	39	56-7986	Sleeve - Protective	1
18	63-3890	Hose - Cylinder - Lift L.H.	2	40	56-7987	Sleeve - Protective	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				

SPECIAL TOOLS

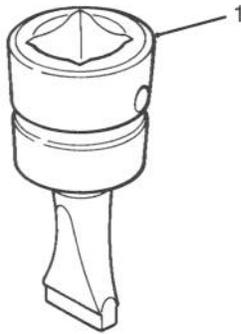
REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

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

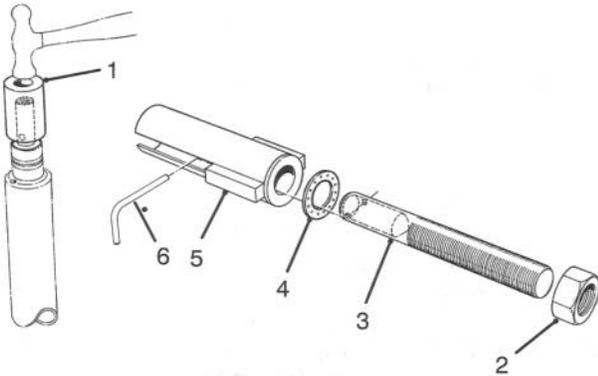
BED KNIFE SCREW TOOL NO. TOR510880



T-0729

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

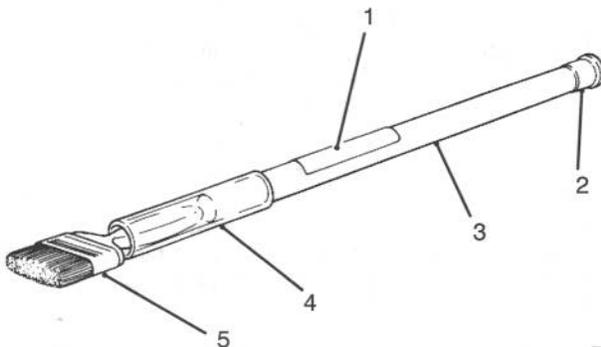
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



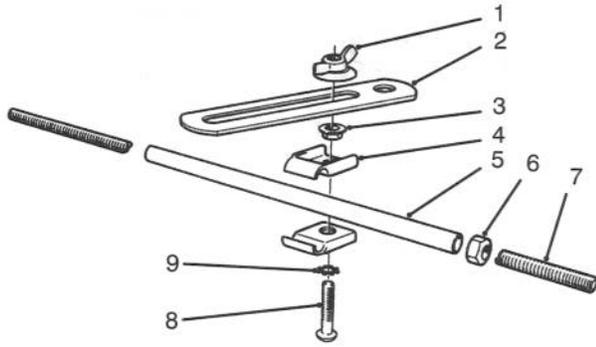
T-0731

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



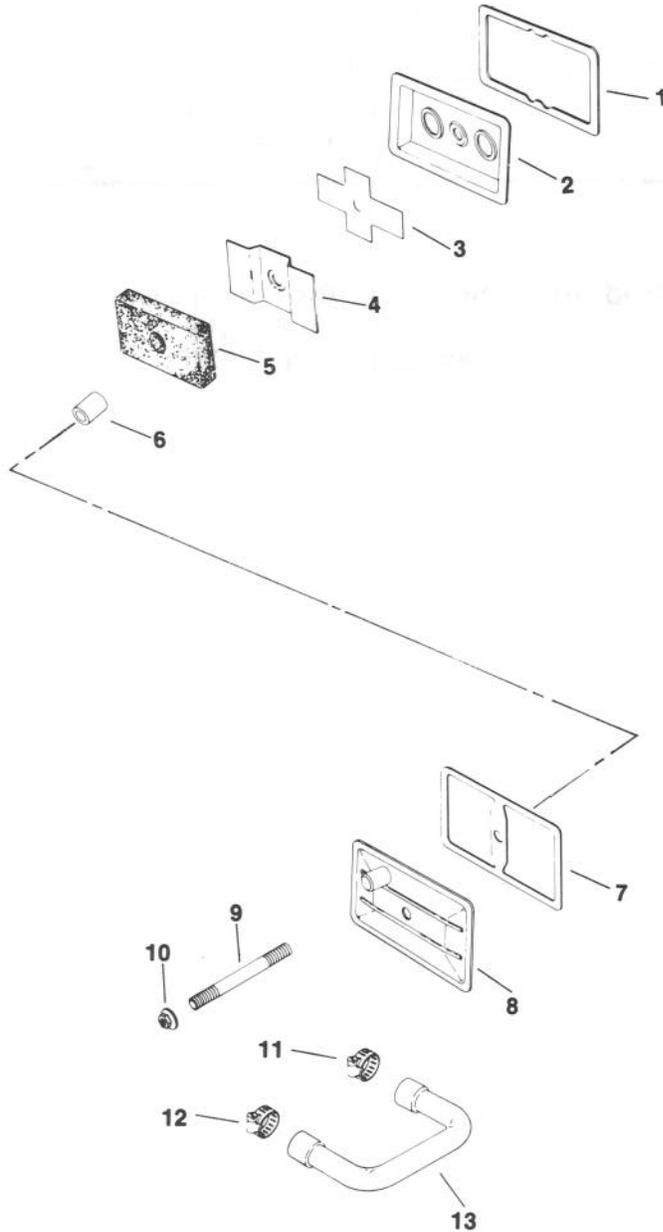
T-0732

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

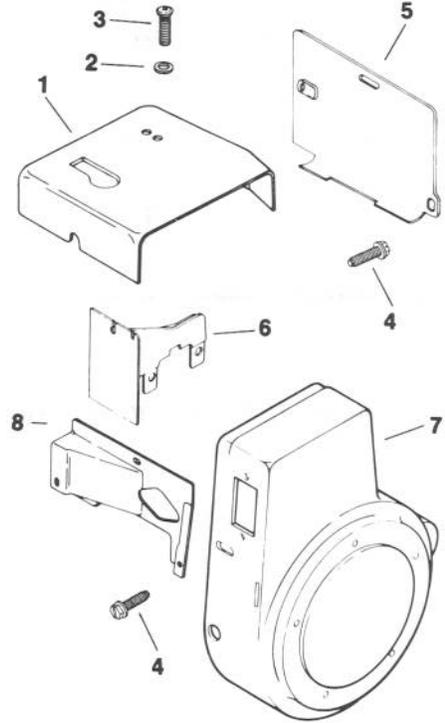
**Note: Special tools may be ordered from: Owatonna Tool Company
2013 4th St. NW
Owatonna, MN 55060**

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

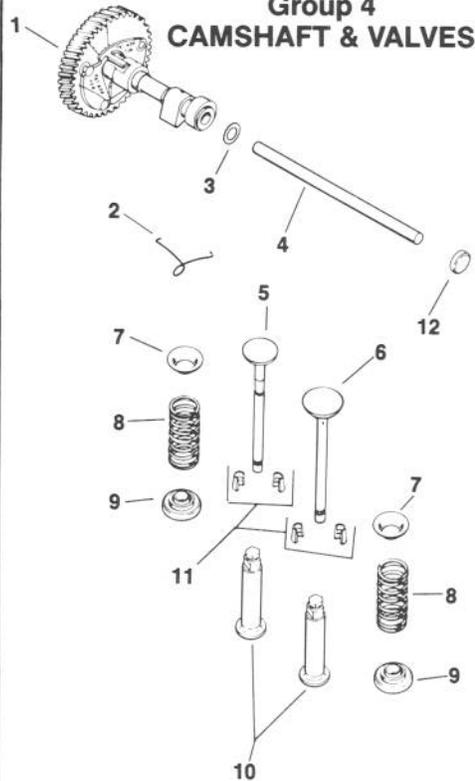
Group 3 BREATHER & VENT



Group 2 BAFFLES & SHROUD



Group 4 CAMSHAFT & VALVES

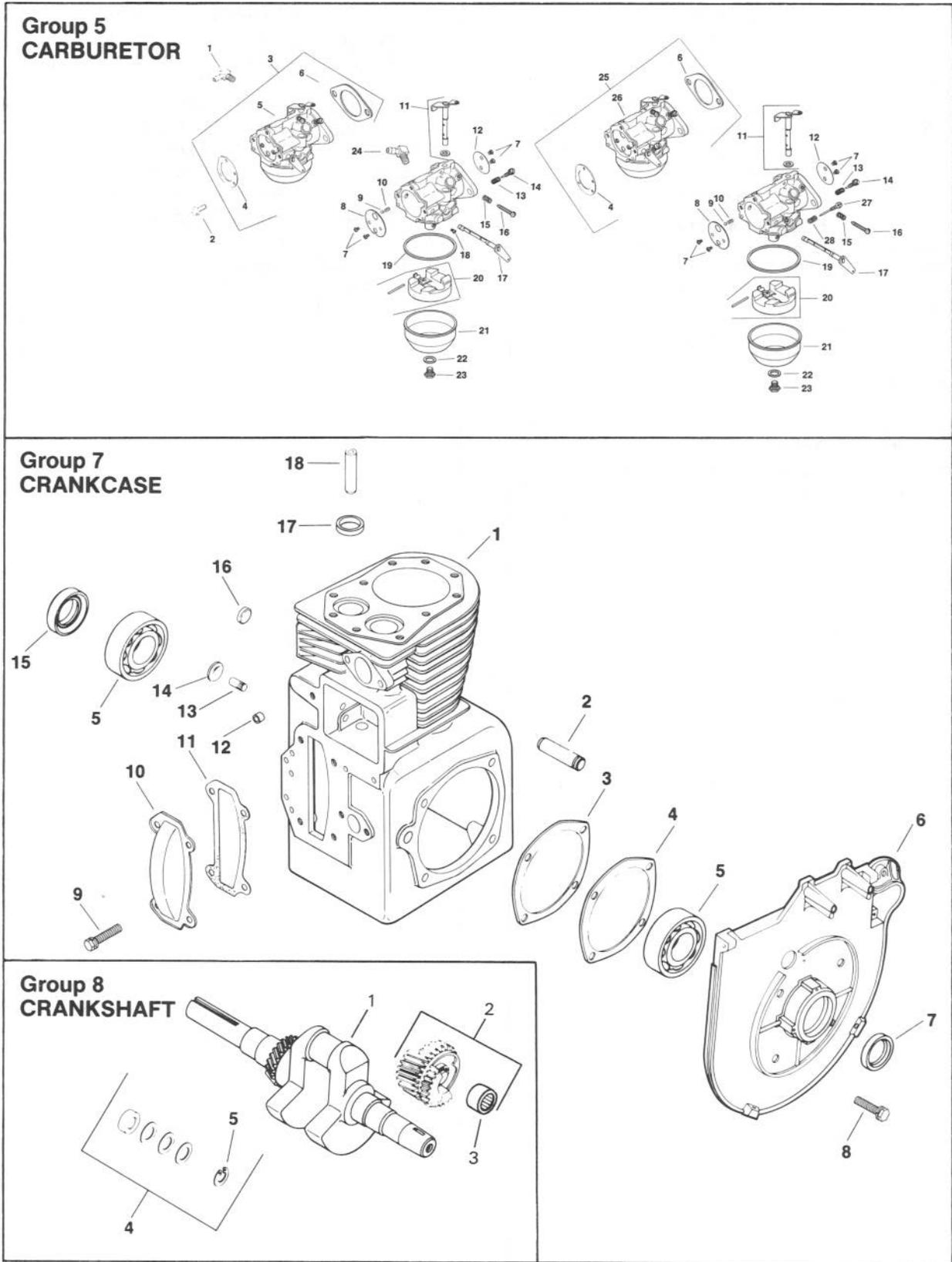


ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

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

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533



ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

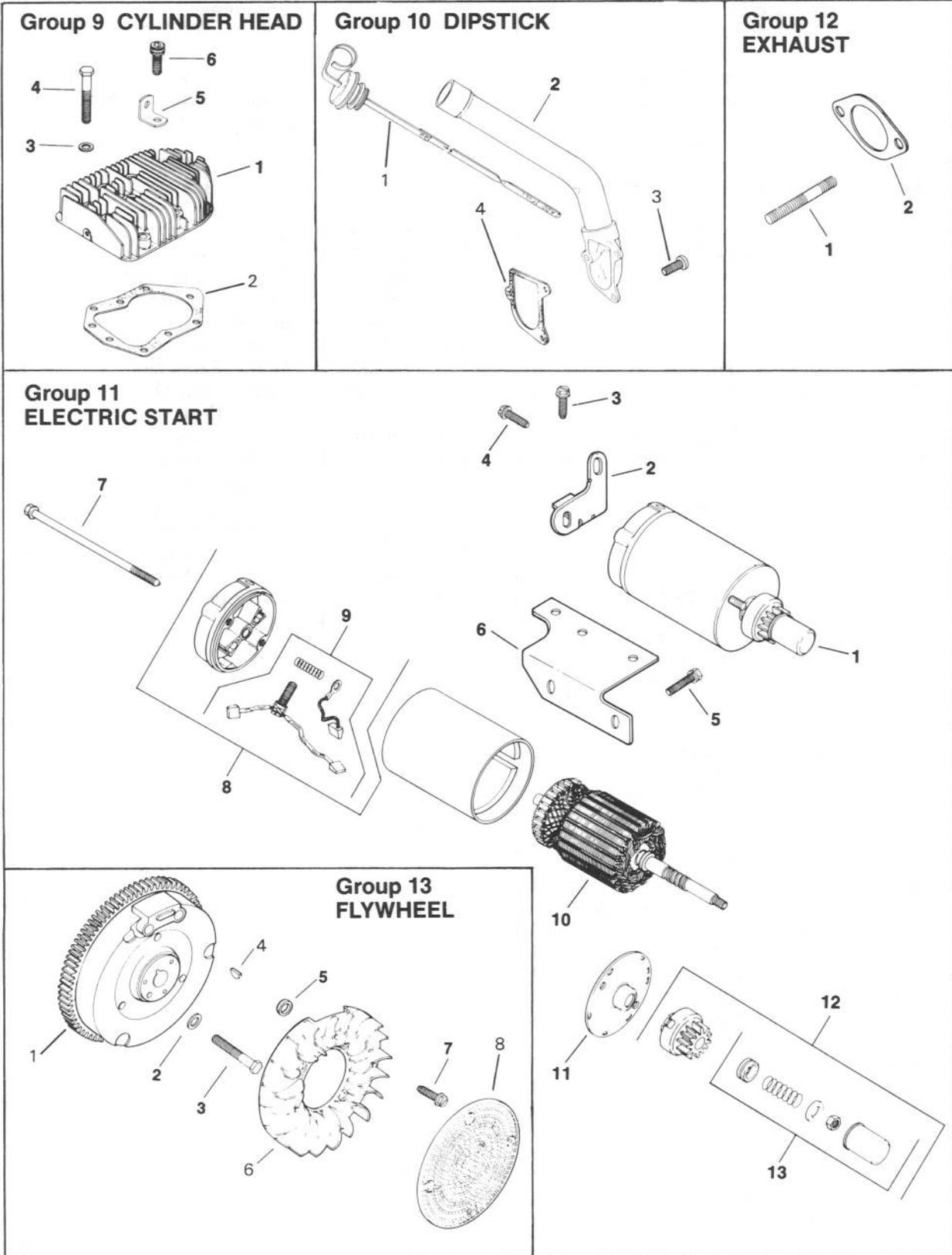
Ref. No.	Part No.	Description	No. Used
		Carburetor	
1	4515501	Connector – Hose	1
2	X-770-1	Screw – Sstd. Hd. Built with the following:	2
3	4585307	Kit – Carburetor w/Linkage	1
4	4504107	Gasket – Air Cleaner	1
†5	4505378	Assembly – Carburetor	1
6	4704901	Gasket – Carburetor	1
7	2508627	Screw – Throttle & 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

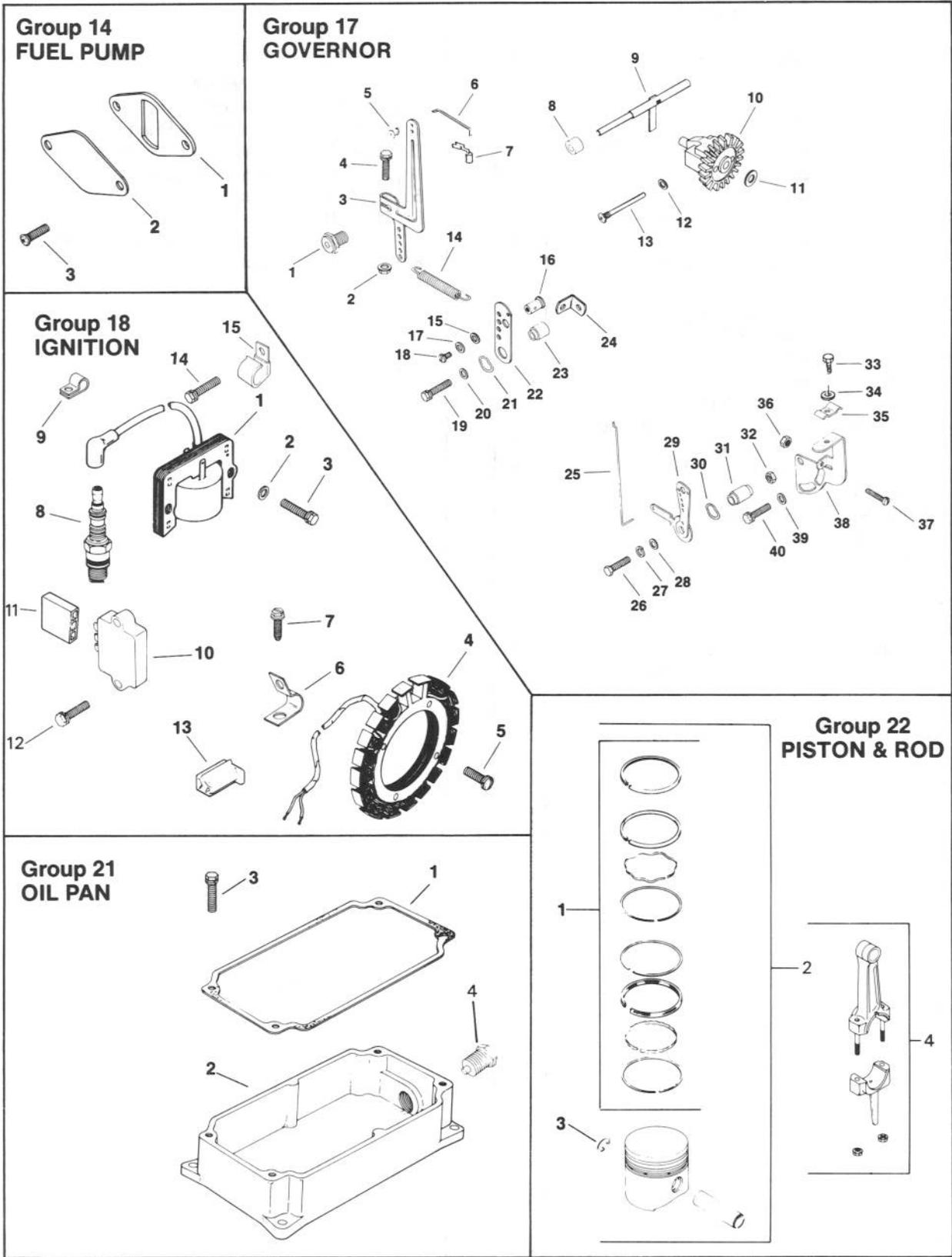


ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

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

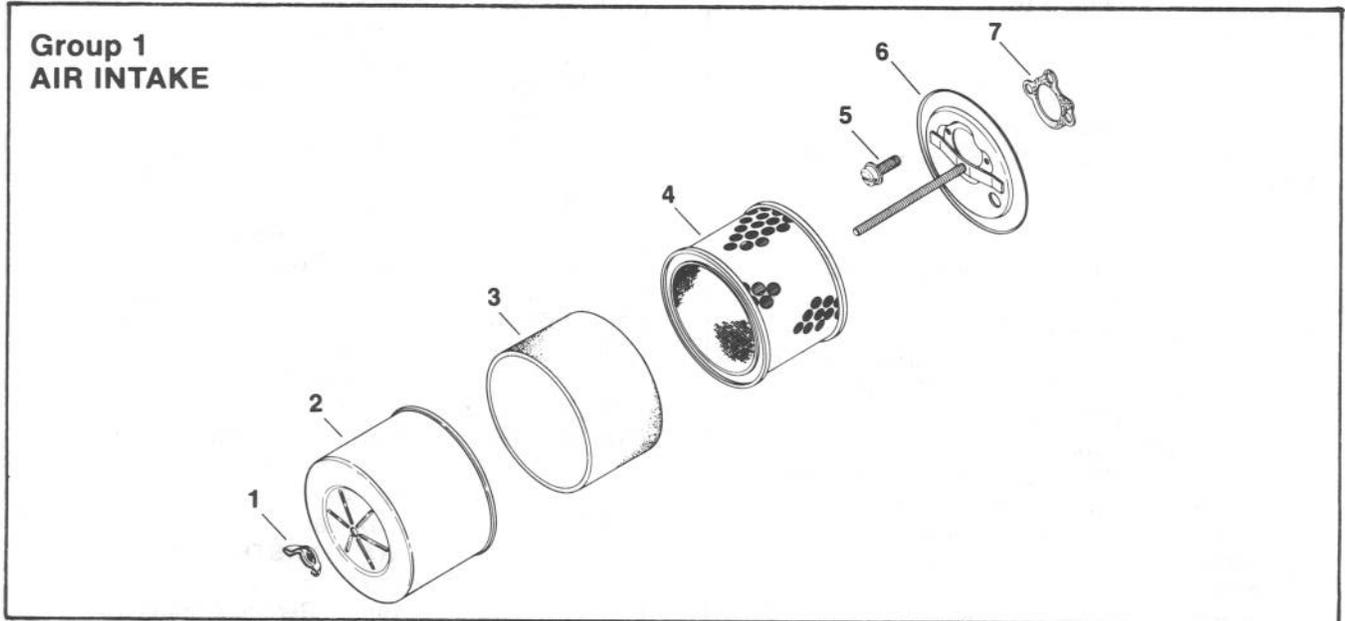
ENGINE ASSY. - KOHLER MODEL NO. M16S-711533



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



T-1179

ENGINE ASSY. – KOHLER MODEL NO. M16S-711533

Ref. No.	Part No.	Description	No. Used
		Air Inlake	
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

3316-232 Rev. A

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3-0348	Bushing	5 27 6	27-2550	Pin - Hinge	7 31 1
3-0348	Bushing	1 31 10	27-2830	Decal - Parking Brake	2 81 1
3-0348	Bushing	7 35 6	27-3040	Hose - Pump	12 46 2
3-1506	Bushing	2 60 12	27-3040	Hose - Pump/Inlet	23 10 2
3-4808	Nut - Wing	25 1 1	27-3070	Wire - Battery to Engine	21 44 1
3-6657	Clip - Skid	25 4 2	27-6600	Spacer - Rubber	21 28 4
3-6685	Spring	19 47 1	27-7980	Front Reservoir Strap Assy.	12 30 1
3-8516	Anchor - Cable	19 22 1	28-2120	Wire - Battery to Ground	21 43 1
5-0698	Key	19 18 1	28-3680	Tire	5 2 2
5-0946	Key - Square	22 1 1	28-3680	Tire	19 42 1
5-1226	Washer	7 28 A/R	28-4210	Solenoid	19 53 1
5-1226	Washer - Shim	3 89 2	28-8080	Boot Terminal	20 69 1
5-2653	Pulley Assembly	10 13 4	29-9080	Handle	24 3 1
5-3934	Bolt	19 34 1	29-9090	Hose - Handle	24 4 1
8-7710	Ball Joint Receiver Assy.	2 56 6	36-4310	Brush	24 5 1
10-6060	Pin - Ram Pivot	1 23 2	36-7250	Grass Basket	8 58 3
10-6090	Pin - Pivot	5 40 1	38-0410	Nut - Hex.	16 53 1
10-6090	Pin - Pivot	8 56 1	38-0410	Nut - Hex.	18 59 1
10-6090	Pin - Pivot	2 62 2	42-2680	Race R. Detent	15 46 1
10-6110	Pin - Hinge	1 28 2	43-5220	Ring - Retaining	9 12 1
10-6821	Drum Assy.	5 51 1	43-5230	Shaft with Clevis	9 13 1
10-6830	Drive Stud	19 39 4	43-5260	Barrel w/Clevis & Ports	9 2 1
10-6870	Hub - Wheel	5 5 2	43-8600	Spring - Compression	20 61 1
10-7070	Key - Engine	21 2 1	43-8610	Guide - Spring & Ball Seat	20 62 1
10-7130	Wire - Solenoid to Battery	21 42 1	43-8620	Guide - Switch Pin	20 59 1
10-7240	Sleeve - Steering Pulley	10 42 1	43-8860	Plunger - Switch	20 60 1
10-7370	Tube Cap	10 5 1	43-8870	Boot - Switch	19 56 1
10-7820	Hinge - Pivot	5 29 1	43-9071	Switch Assembly	20 * 1
10-7820	Hinge - Pivot	1 30 1	44-0870	Camshaft - Rear	7 16 1
10-7820	Pivot Hinge	7 38 1	44-2230	Coupling - Rubber	21 27 1
10-7850	Latch - Parking Brake	2 76 1	44-2500	Hydraulic Oil Dye	13 * 1
10-7880	Hinge - Upper, Park Brake	2 77 1	44-5560	Filter Head - Hydraulic	12 48 1
10-7890	Hinge - Lower, Park Brake	2 74 1	47-5320	Lever - Cutting Control	7 14 1
10-7920	Washer	8 68 1	49-5410	Box - Tool	5 23 1
10-8100	Strap - Brake Shaft	2 37 2	49-5430	Rod - Control	5 19 1
10-8110	Washer - Thrust	5 26 6	49-5450	Plate - Cover	5 16 1
10-8110	Washer - Thrust	2 51 18	49-5460	Shield - Valve Cover L.H.	10 31 1
10-8110	Washer - Thrust	7 36 6	49-5470	Shield - Valve Cover R.H.	10 38 1
10-8120	Bolt - Battery	19 55 2	49-5840	Seat Support	10 20 1
10-8140	Spring - Brake Latch	2 75 1	49-5880	Shaft - Seat Support	10 34 1
10-8220	Pad - Tool Box	5 22 1	49-5900	Steering Wheel Assembly	10 1 1
10-8240	Foot Pad - Lift	1 9 1	49-5910	Arm Steering	10 10 1
10-8250	Foot Pad - Mow	1 6 1	49-5970	Bracket - Pulley	10 15 1
11-0160	Roller Shaft Screw Assy.	2 70 6	49-6110	Guard - Transfer Rod	3 88 1
12-3270	Screw - Cap, Hex. Hd.	23 35 3	49-6120	Pad - Footrest	1 15 1
12-3270	Screw - Pentaflto	7 10 1	49-6170	Foot Pad - Brake	1 4 1
12-3270	Screw - Thread Forming	10 32 2	49-6200	Lever - Cutting Control	1 2 1
12-7189	Engine	21 1 1	49-6220	Bracket - Control Arm	7 17 1
12-9140	Decal	24 1 1	49-6250	Bracket - Traction Pivot	7 8 1
18-1520	Fuel Filter	19 4 1	49-6260	Tube - Traction Pivot	8 55 1
20-0070	Tube	25 5 1	49-6290	Shaft - Traction Pivot	7 9 1
20-0080	Rod	25 7 1	49-6320	Rod - Traction Control	7 7 1
20-0110	Bracket - Alignment	25 2 1	49-6430	Pad - Pedal Reverse	7 6 1
21-8470	Shaft - Yoke Roller	2 61 3	49-6440	Pedal - Accelerator	7 2 1
22-6090	Washer - Thrust	24 4 1	49-6470	Pad - Pedal Forward	7 3 1
23-0660	Key Switch	11 5 1	51-0010	Decal - Traction	10 39 1
23-8840	Puller - Bolt	24 3 1	51-0050	Decal - Mow/Lift	1 10 1
23-8850	Tube - Support	24 5 1	51-0350	Pin - Seat Spring	19 46 1
23-8860	Pin - Bearing Rplcmnt.	24 6 1	51-0780	Seat Slider	10 23 1
23-8880	Driver - Bearing	24 1 2	51-0790	Seat Adjuster	10 30 1
26-3790	Nut - Lock	5 4 2	52-1990	Piston	4 4 1
27-1930	Pump Mount	21 25 1	52-2720	Roller Assembly	2 66 3
27-1960	Coupling - Engine	21 31 1	52-5860	Collar - Spool	18 51 1
27-1970	Coupling - Pump	21 26 1	52-5880	Ball - Steel	15 47 12
27-2040	Hose	12 27 1	52-5900	Screw - Fillister Hd.	17 37 4
27-2150	Mounting Pad - Engine	21 36 4	55-3570	Gas Cap	19 10 1
27-2270	Rod - Brake Adjustment	2 36 2	55-8480	Tank - Hydraulic	12 43 1
27-2320	Bearing - Flange	1 7 2	56-2230	Hose - Fuel Line	19 7 1
27-2320	Side Flange - Bearing	7 13 2	56-2240	Hose - Gas Line (Short)	19 5 1
27-2380	Spacer - Filler Mount	12 20 1	56-2520	Fitting - Fuel Shut-off	19 6 1
27-2400	Reservoir Strap Assembly	12 39 1	56-7970	Clamp - Tube	3 82 2
27-2420	Felt Strap - Angle	12 38 2	56-7980	Splash Shield	23 29 3
27-2420	Felt Strip	12 41 2	56-7981	Splash Shield	23 3 1
27-2540	Spacer - Hub	7 30 1	56-7986	Sleeve - Protective	23 39 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No.	Qty.	Part No.	Description	Pg. Ref. No. No.	Qty.		
56-7987	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	1
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	84-2202	Control Valve	13	57	1
63-8750	Pin - Pivot	7	48	1	84-2202	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	86-9810	Pull Frame - L.H.	2	71	1
68-5310	Clip Seat	10	51	1	86-9820	Frame - Pull, R.H.	5	37	1
68-5880	Return Line - Man. to Filter	23	20	1	86-9820	Pull Frame - Rear	8	57	1
68-5930	Handle - Traction	7	21	1	88-6900	Plate - Footrest	8	67	1
68-9910	Panel - Control	11	12	1	88-9500	Needle Valve Assembly	13	*	1
68-9930	Control - Throttle	11	21	1	88-9630	Lift Pivot Bracket - R.H.	3	87	1
68-9940	Decal - Control Panel	11	14	1	88-9640	Lift Pivot Bracket - L.H.	1	13	1
69-9760	Plate - Cover	3	90	1	88-9660	Shaft - Cutting Control	1	11	1

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Part No.	Description	Pg. Ref.		Qty.	Part No.	Description	Pg. Ref.		Qty.
		No.	No.				No.	No.	
88-9670	Lift Arm - Center	7	40	1	2412-41	R-Clamp	23	34	3
88-9680	Wire Harness - Traction	21	41	1	2412-76	Muffler Clamp Assembly	21	11	1
88-9690	Wire Harness - Frame	21	40	1	2412-102	R-Clamp	10	44	2
92-0585	Pull Arm Assembly - R.H.	2	69	3	2412-108	Clamp - Hose	19	3	4
92-0586	Pull Arm Assembly - L.H.	2	59	3	251-141	Bearing - Ball	2	67	6
92-0587	Fitting - Hydraulic Valve	13	55	1	253-111	Seal	19	36	2
92-0588	Bushing - Needle	12	17	1	254-78	Cone	19	37	2
92-1180	Seat Assembly	10	*	1	254-79	Cup	19	38	2
92-1192	Frame	7	19	1	256-2	Bushing	10	14	4
92-1194	Plate - Traction	8	63	1	256-2	Bushing	8	54	2
92-1195	Decal - Service	10	53	1	256-113	Bushing	10	6	2
92-1199	Decal - Greensmaster 3000	2	78	1	256-155	Bushing	10	37	2
92-1677	Battery	20	65	1	256-219	Bushing	8	65	2
92-1699	Cap - Battery (Flush)	20	78	1	256-251	Bushing	7	22	2
92-1707	Cap - Battery (Poison)	20	74	1	256-290	Bushing	7	25	2
92-2545	Seals - Spool	16	*	1	281-1	Plug - Oil	12	45	1
92-2545	Seals - Spool	18	*	1	282-2	Yoke	2	33	4
92-2546	Wiper - Seal	15	25	4	282-2	Yoke	5	21	2
92-2546	Wiper - Seal	18	64	5	283-1	Pin - Clevis	2	34	4
92-2547	Plate - Seal Retainer	17	18	6	283-1	Pin - Clevis	5	42	2
92-2547	Plate - Seal Retainer	15	24	4	283-8	Pin - Clevis	1	27	2
92-2548	Seal - Spool Set	16	*	1	283-57	Pin - Clevis	7	18	1
92-2548	Seals - Single End Set	18	*	1	302-2	Fitting - Grease	4	1	2
92-2549	Seals - End Set #4 Only	18	*	1	302-5	Fitting - Grease	7	26	1
92-3048	Spring - Centering	15	41	1	302-5	Fitting - Grease	19	33	1
92-3148	Spring	17	23	1	302-5	Fitting - Grease	2	58	8
92-6533	Kit - Cushion	10	24	1	302-11	Fitting - Grease	7	41	1
92-6534	Shell	10	25	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	321-11	Screw - Cap, Hex Hd.	3	86	1
233-50	Knob	11	9	2	321-18	Screw - Cap, Hex Hd.	10	2	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
2412-41	Clip	11	16	1	3220-2	Nut - Hex. Jam	8	64	2

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Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
3220-3	Nut - Hex, Jam	2	57	6	3296-4	Nut - Lock	8	61	2
3220-6	Nut - Jam	4	15	1	3296-16	Nut - Hex	2	72	3
3229-22	Bolt - Carriage	3	84	2	3296-16	Nut - Lock	23	37	1
3234-1	Screw - Flange, Hex. Hd.	7	12	4	3296-16	Nut - Lock	10	40	1
3234-1	Screw - Hex. Flange Hd.	1	5	4	3296-16	Nut - Lock	10	50	1
3234-4	Screw - Cap, Hex. Hd.	5	18	4	3296-16	Nut - Lock, Flange	5	41	3
3241-2	Screw - Set, Sq. Hd.	21	32	2	3296-16	Nut-Hex	12	40	4
3241-6	Screw - Set, Sq. Hd.	21	29	2	3296-23	Nut - Lock	5	25	8
3242-9	Screw - Set, Sq. Hd.	19	24	2	3296-29	Nut - Lock	21	4	4
3250-36	Screw - Phil. Hd.	19	13	4	3296-29	Nut - Lock	10	36	4
3253-3	Washer - Lock	12	42	2	3296-29	Nut - Lock	7	45	2
3253-3	Washer - Lock	18	57	4	3296-29	Nut - Lock	20	76	1
3253-3	Washer - Lock	2	73	2	3296-39	Nut - Lock	10	11	2
3253-4	Washer - Lock	21	8	2	3296-39	Nut - Lock	19	27	2
3253-4	Washer - Lock	19	16	4	3296-39	Nut - Lock	21	33	4
3253-4	Washer - Lock	12	19	3	3296-39	Nut - Lock	2	44	1
3253-4	Washer - Lock	1	24	6	3296-42	Nut - Lock	5	9	8
3253-4	Washer - Lock	7	33	2	3296-50	Nut - Lock	19	45	1
3253-4	Washer - Lock	5	39	1	3296-59	Nut - Hex.	2	41	8
3253-4	Washer - Lock	10	47	2	3296-59	Nut - Lock	7	46	4
3253-6	Washer - Lock	21	13	4	32103-12	Nut - Wing	20	73	2
3253-21	Washer - Lock	21	15	2	32104-76	Screw - Tapping, Acorn Hd.	10	4	15
3253-21	Washer - Lock	10	18	2	32105-8	Screw - Machine, Rd. Hd.	11	22	4
3253-21	Washer - Lock	2	40	8	32108-100	Screw - Mach. Phillips Hd.	5	15	3
3253-23	Washer - Flat	11	17	1	32120-8	Ring - Retaining Internal	4	11	1
3254-1	Washer - Lock	19	50	2	32121-6	Pin - Roll	1	1	1
3254-2	Washer - Lock, Int. Tooth	13	64	1	32121-6	Pin - Roll	7	15	1
3254-5	Washer - Lock	11	6	1	32121-34	Pin - Roll	10	7	1
3254-6	Washer - Lock	7	43	2	32121-35	Pin - Roll	1	12	8
3254-6	Washer - Lock	21	47	1	32121-45	Pin - Roll	1	3	3
3255-7	Washer - Lock, Int. Tooth	11	30	1	32121-45	Pin-Roll	7	1	2
3255-8	Washer - Lock, Int. Tooth	25	9	1	32121-45	Pin-Roll	7	5	1
3255-20	Washer - Lock ETLW	11	28	2	32121-45	Pin-Roll	10	35	1
3256-4	Washer - Flat	10	12	4	32122-35	Screw - Truss Head	25	8	1
3256-21	Washer - Flat	11	25	2	32128-20	Nut - Hex	12	18	3
3256-22	Washer - Flat	2	80	1	32128-20	Nut - Hex	8	59	1
3256-22	Washer - Flat	12	29	2	32128-20	Nut - Lock	11	10	1
3256-22	Washer - Flat	23	38	1	32128-20	Nut - Lock, Flange	25	3	1
3256-22	Washer - Flat	19	52	2	32141-111	Nut - Hex Hd. Flange	3	83	1
3256-22	Washer - Flat	20	72	2	32144-1	Screw - Thread Forming	21	38	8
3256-23	Washer - Flat	21	12	6	32144-14	Screw - Cap, Hex. Hd.	8	66	1
3256-23	Washer - Flat	12	21	5	32144-34	Screw	12	35	6
3256-23	Washer - Flat	10	22	6	32149-2	Nut - Lock	19	51	2
3256-23	Washer - Flat	7	32	1	32149-2	Nut - Lock, Keps	11	15	1
3256-23	Washer - Flat	20	75	1	32149-7	Nut - Lock	11	23	1
3256-24	Washer - Flat	2	39	15	32151-41	Ring - Retaining	14	9	1
3256-24	Washer - Flat	7	44	2	32152-10	Nut	9	3	1
3256-24	Washer - Flat	7	47	4	32152-10	Nut-Lock	4	3	1
3256-26	Washer - Flat	10	16	4	3333-975	Cable Tie	23	31	1
3256-26	Washer - Flat	5	33	3	340-6	Fitting - Straight	21	19	1
3256-26	Washer - Flat	2	43	1	340-14	Fitting	5	13	4
3256-26	Washer - Flat	8	52	1	340-16	90° Fitting	12	4	1
3257-42	Key - Woodruff	6	17	1	340-18	90° Elbow	12	12	1
3257-42	Key - Woodruff	5	45	2	340-77	90° Elbow	13	52	3
3272-4	Pin - Cotter	7	23	1	340-77	90° Fitting	21	21	1
3272-6	Pin - Cotter	2	32	4	340-87	45° Fitting	21	23	2
3272-6	Pin - Cotter	5	43	2	340-87	45° Fitting	13	58	2
3272-11	Pin - Cotter	1	21	3	340-92	Fitting - Orifice Str.	23	32	1
3272-11	Pin - Cotter	5	32	2	340-92	Fitting - Straight	1	18	1
3272-11	Pin - Cotter	10	48	1	340-98	90° Elbow	13	59	2
3272-11	Pin - Cotter	8	53	1	340-101	45° Fitting	12	16	3
3272-12	Pin - Cotter	2	45	1	340-103	45° Elbow Adjustable	23	11	1
3274-12	Screw - Hex Socket Hd.	10	21	4	351-78	Edging	10	29	2
3274-15	Screw - Fillister Hd.	15	43	2	353-301	Poppet	15	27	1
3274-52	Screw - Hex, Socket Hd.	15	20	4	353-302	O-Ring	17	7	3
3274-52	Screw - Hex, Socket Hd.	17	45	6	353-302	O-Ring	15	10	3
3274-54	Screw - Set, Socket Hd.	12	28	2	353-303	Ring - Backup	17	8	6
3274-70	Screw - Hex, Socket Hd.	15	1	2	353-303	Ring - Backup	15	9	6
3274-84	Screw - Cap, Hex. Hd.	18	58	4	353-304	Spring	15	28	1
3284-3	Pin Groove	19	48	1	353-305	O-Ring	17	5	5
3290-314	Tinnerman Push-On	10	41	2	353-305	O-Ring	15	8	4
3290-317	Washer - Spring	2	68	6	353-306	Ring - Backup	17	4	5
3290-379	Tie - Cable	23	8	6	353-306	Ring - Backup	15	7	4
3296-4	Nut - Lock	19	19	2	353-328	Washer - Shim	15	15 A/R	

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
353-328	Washer - Shim	17 32 A/R	353-772	Left End Cover	15 34 1
353-329	Washer - Shim	15 16 A/R	353-777	Body - Motor	14 12 1
353-329	Washer - Shim	17 33 A/R	353-780	Positioner - R. Detent (Out)	16 *54 1
353-330	Washer - Shim	15 17 A/R	353-808	Collar - Spring	17 24 1
353-330	Washer - Shim	17 34 A/R	353-829	Collar Spool	17 26 1
353-331	O-Ring	15 29 1	353-830	O-Ring	17 25 1
353-334	Cap - Relief	15 19 2	353-831	Spring	17 21 1
353-334	Cap - Relief	17 36 2	353-833	Positioner Assembly	18 * 1
353-392	Seal - Relief Poppet PTFE	15 13 2	353-834	Section #5 Assembly	18 * 1
353-392	Seal - Relief Poppet PTFE	17 30 2	353-835	Seals - Section Set	16 * 1
353-398	Spring	17 35 1	353-835	Seals - Section Set	18 * 1
353-417	Collar Spring	17 20 2	353-837	Section #2 Complete	16 * 1
353-417	Collar Spring	15 40 2	353-839	Positioner - DI (SPL) Assy.	16 * 1
353-481	Plug - Load Check	17 2 2	353-840	Position - DI (SP) Assy.	18 * 1
353-481	Plug - Load Check	15 5 3	353-841	Position - Spool Assembly	18 * 1
353-483	Body - Anticavitation	18 61 1	353-844	Plug Series	18 55 1
353-484	Retainer - Ball	18 62 1	353-845	Sleeve - Detent	17 41 1
353-529	Plate Seal	17 22 1	353-846	Spud - DI (SPL)	17 40 1
353-531	Poppet Assembly	17 31 2	353-847	Bonnet (SPL)	17 38 1
353-531	Poppet Assy.	15 14 2	353-848	O-Ring	17 14 1
353-550	Plug Assembly	17 13 1	353-849	Sleeve	17 39 1
353-559	Retainer - Boot	15 22 2	353-850	O-Ring	18 56 1
353-559	Retainer - Boot	17 47 3	353-851	Body - Relief CP-RC Mod.	15 12 1
353-560	Washer - Breather	15 23 2	353-851	Body - Relief CP-RC Mod.	17 29 2
353-560	Washer - Breather	18 48 3	353-853	Bolt - Hex Hd.	17 10 3
353-563	Fitting - Straight	12 25 1	353-854	Boot - Spool Assembly	16 * 2
353-564	90° Fitting	13 53 1	353-854	Boot - Spool Assembly	18 * 3
353-575	Boot - Dust Cap	15 21 2	353-855	Spring	15 18 2
353-575	Boot - Dust Cap	17 46 3	353-855	Spring	17 44 1
353-579	Spring	15 45 1	353-884	Key - Woodruff	22 11 4
353-586	Bearing - Needle	14 13 4	353-886	Ring - Retaining	22 12 2
353-588	Cover - Motor	14 3 1	353-916	Flange Assembly	22 3 1
353-591	Block - Anti-Extrusion	14 8 1	353-917	O-Ring	22 4 1
353-592	Drive Shaft Assembly	14 16 1	353-918	Body Assembly	22 5 1
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*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.

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