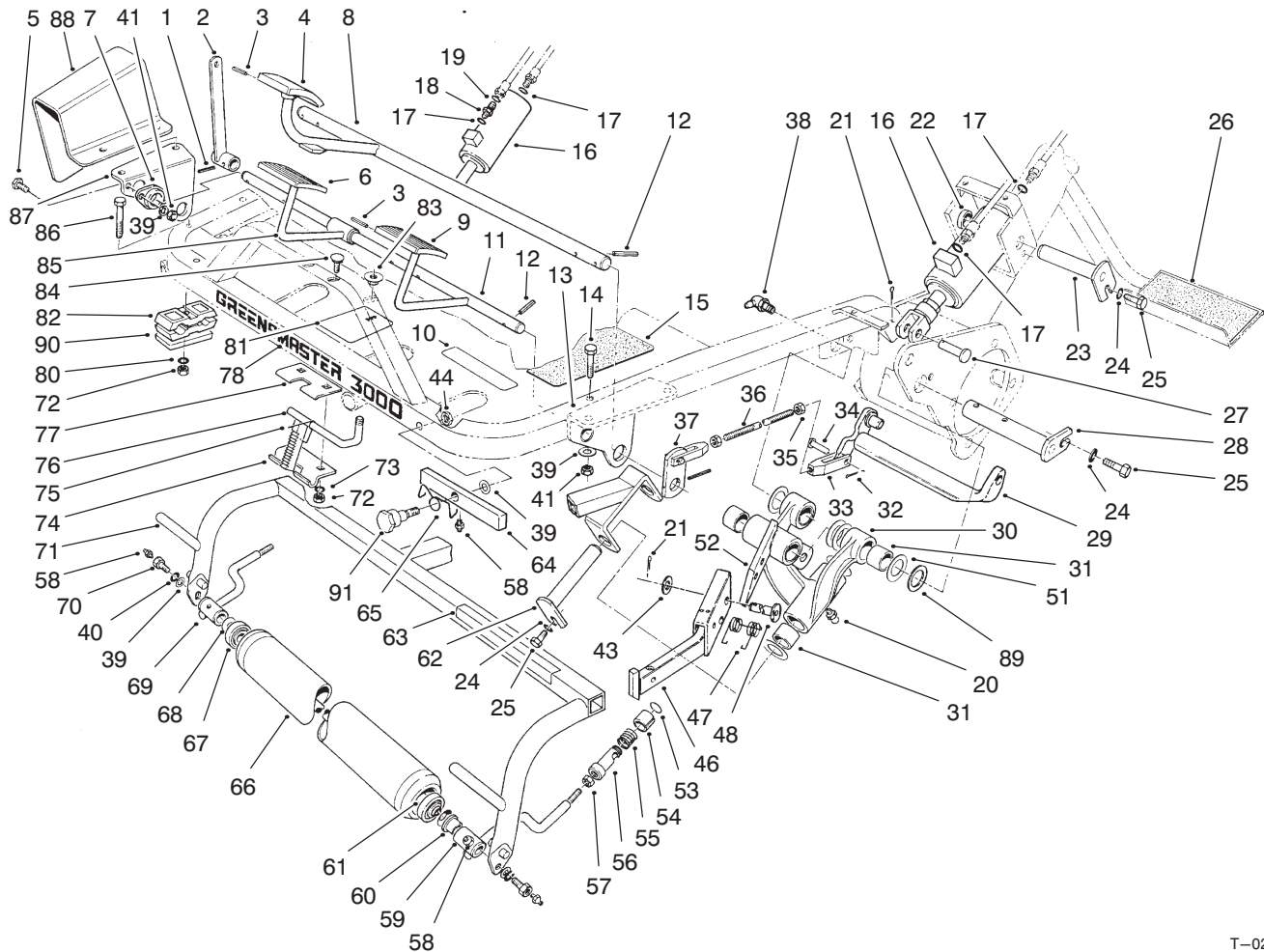


TORO®

MODEL NO. 04350 — 60001 & UP

PARTS CATALOG

GREENSMASTER 3000 TRACTION UNIT

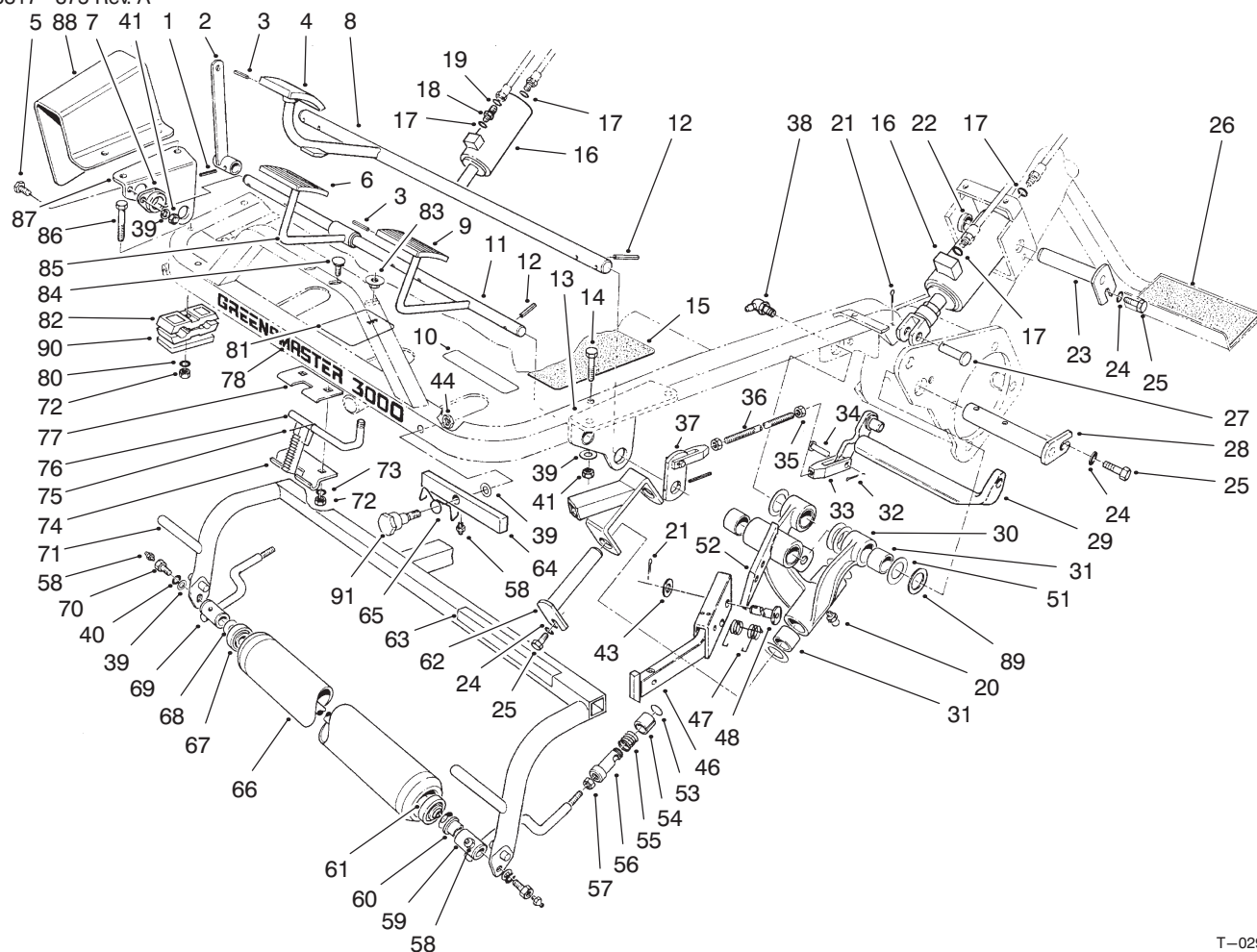


T-0291A

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	93-7629	Foot Pad — Brake	1
5	3234-1	Screw — Hex. Flange Hd.	4
6	93-7630	Foot Pad — Mow	1
7	27-2320	Bearing — Flange	2
8	83-0160	Shaft — Brake	1
9	93-7631	Foot Pad — Lift	1
10	93-8075	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

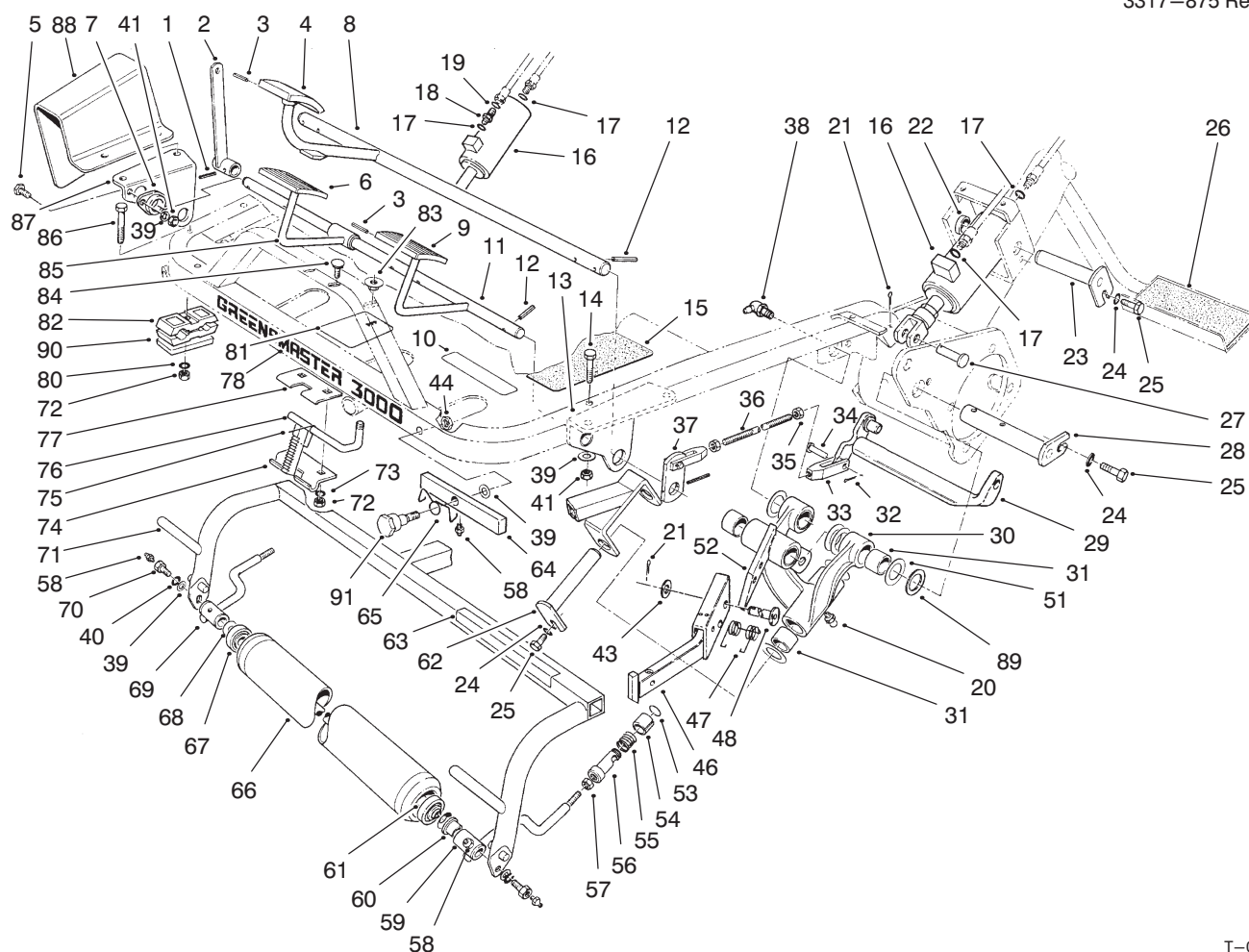
Ref. No.	Part No.	Description	No. Used
17	237-78	O-Ring	4
18	340-92	Fitting — Straight	1
19	237-21	O-Ring	1
20	302-60	Fitting — Grease	4
21	3272-11	Pin — Cotter	3
22	74-3730	Spacer	2
23	10-6060	Pin — Ram Pivot	2
24	3256-23	Washer — Plain	6
25	322-1	Screw — Cap, Hex. Hd.	6
26	62-2660	Pad — Foot Step	1
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)

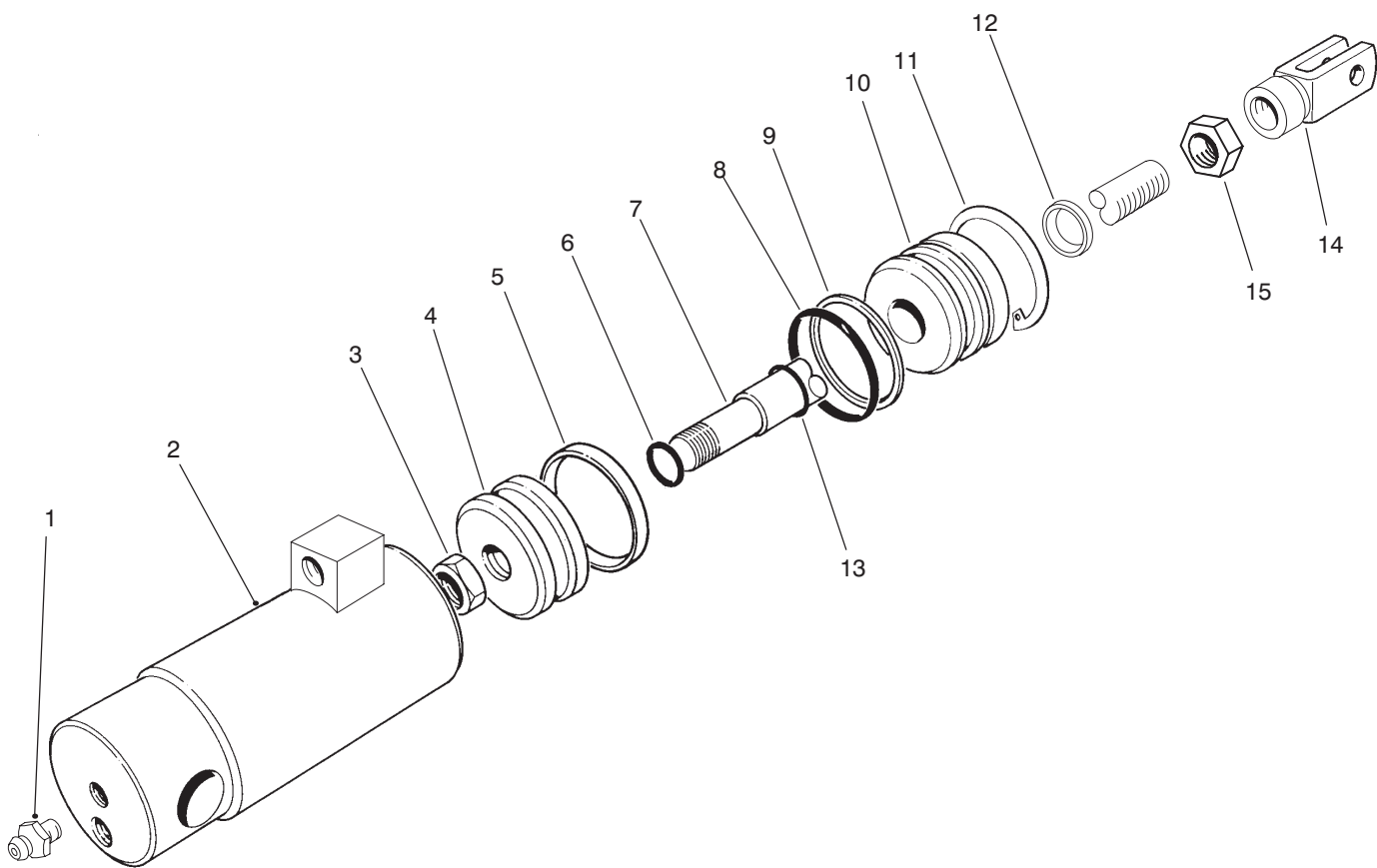
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
32	3272-6	Pin - Cotter	4	59	92-0586	Pull Arm Assembly - L.H. (Incl. Ref. #60)	3
33	282-2	Yoke	4	60	3-1506	Bushing	12
34	283-1	Pin - Clevis	4	61	21-8470	Shaft - Yoke Roller	3
35	3220-2	Nut - Hex	4	62	10-6090	Pin - Pivot	2
36	27-2270	Rod - Brake Adjustment	2	63	62-5070	Decal - Danger	1
37	10-8100	Strap - Brake Shaft	2	64	83-0060	Lift Pivot	1
38	302-11	Fitting - Grease 45°		65	83-0080	Spring - Lift Pivot	1
39	3256-24	Washer - Flat	15	66	52-2720	Roller Assembly (Incl. Ref. #67)	3
40	3253-21	Washer - Lock	8	67	251-141	Bearing - Ball	6
41	3296-59	Nut - Hex.	8	68	3290-317	Washer - Spring	6
43	3256-26	Washer - Flat	1	69	92-0585	Pull Arm Assembly - R.H. (Incl. Ref. #60)	3
44	3296-39	Nut - Lock	1	70	11-0160	Roller Shaft Screw Assy. (Incl. Ref. #58)	6
46	94-5586	Bar - Lift Arm L.H.	1	71	92-9176	Pull Frame - L.H.	1
47	57-7650	Spring - Torsion	1	72	3296-16	Nut - Hex	3
48	63-8750	Pin - Pivot	1	73	3253-3	Washer - Lock	2
51	10-8110	Washer - Thrust	18	74	10-7890	Hinge - Lower, Park Brake	1
52	62-2460	Lift Arm - L.H. (Incl. Ref. #31)	1	75	10-8140	Spring - Brake Latch	1
53		Ring - Retaining	6	76	10-7850	Latch - Parking Brake	1
54		Sleeve	6	77	10-7880	Hinge - Upper, Park Brake	1
55		Spring	6	78	92-1199	Decal - Greensmaster 3000	1
56	94-2959	Ball Joint Receiver Assy. (Incl. Ref. #53-55)	6	80	3256-22	Washer - Flat	1
57	3220-3	Nut - Hex, Jam	6	81	27-2830	Decal - Parking Brake	1
58	302-5	Fitting - Grease	8				



T-0291A

FOOT PEDALS & ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
82	56-7970	Clamp – Tube	2	87	88-9630	Lift Pivot Bracket – R.H.	1
83	32141-111	Nut – Hex Hd. Flange	1	88	49-6110	Guard – Transfer Rod	1
84	3229-22	Bolt – Carriage	2	89	5-1226	Washer – Shim	2
85	83-0140	Foot Pedal	1	90	69-9760	Plate – Cover	1
86	321-23	Screw – Cap, Hex Hd.	1	91	83-2590	Bolt – Shoulder	1



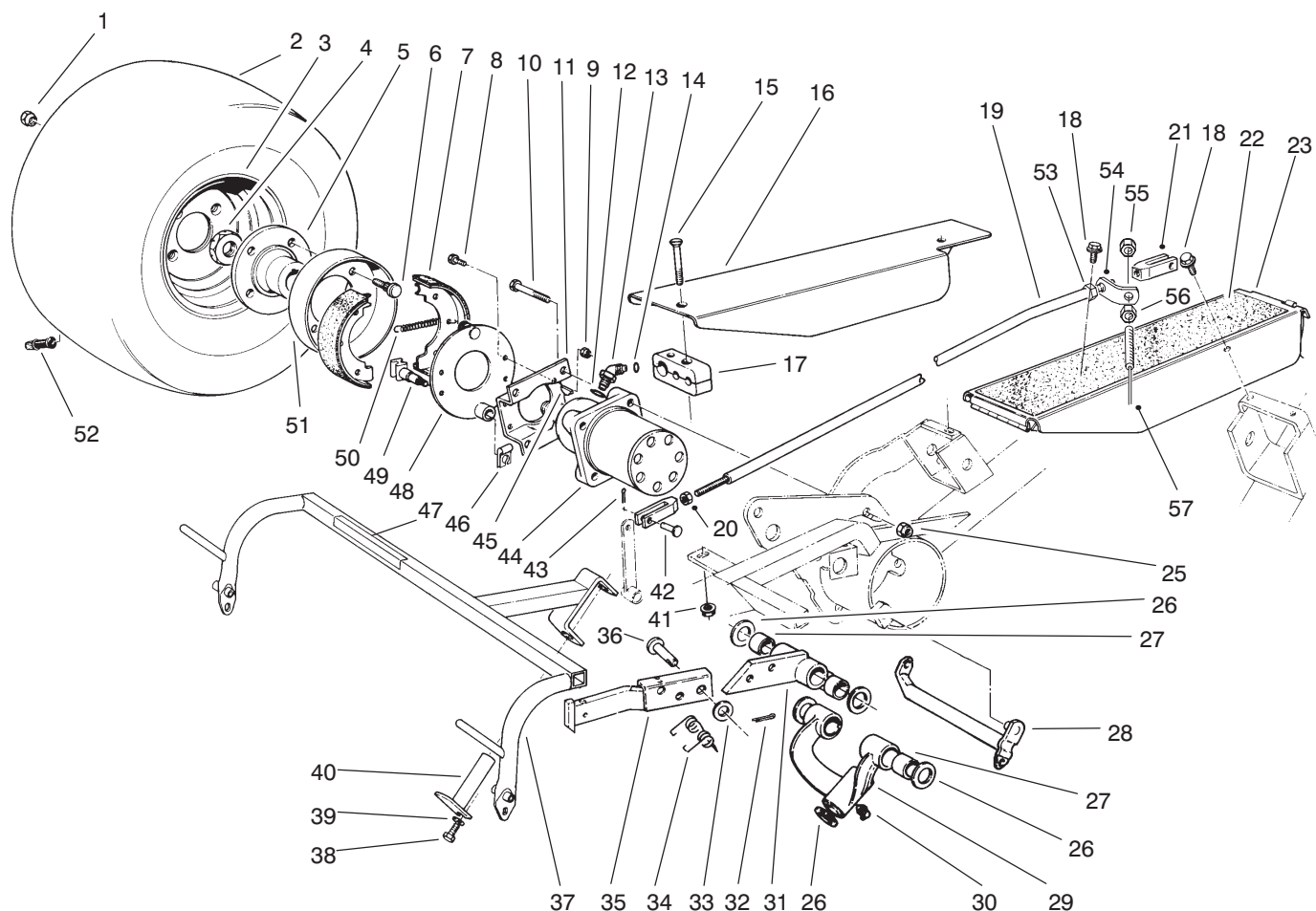
T-1373

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



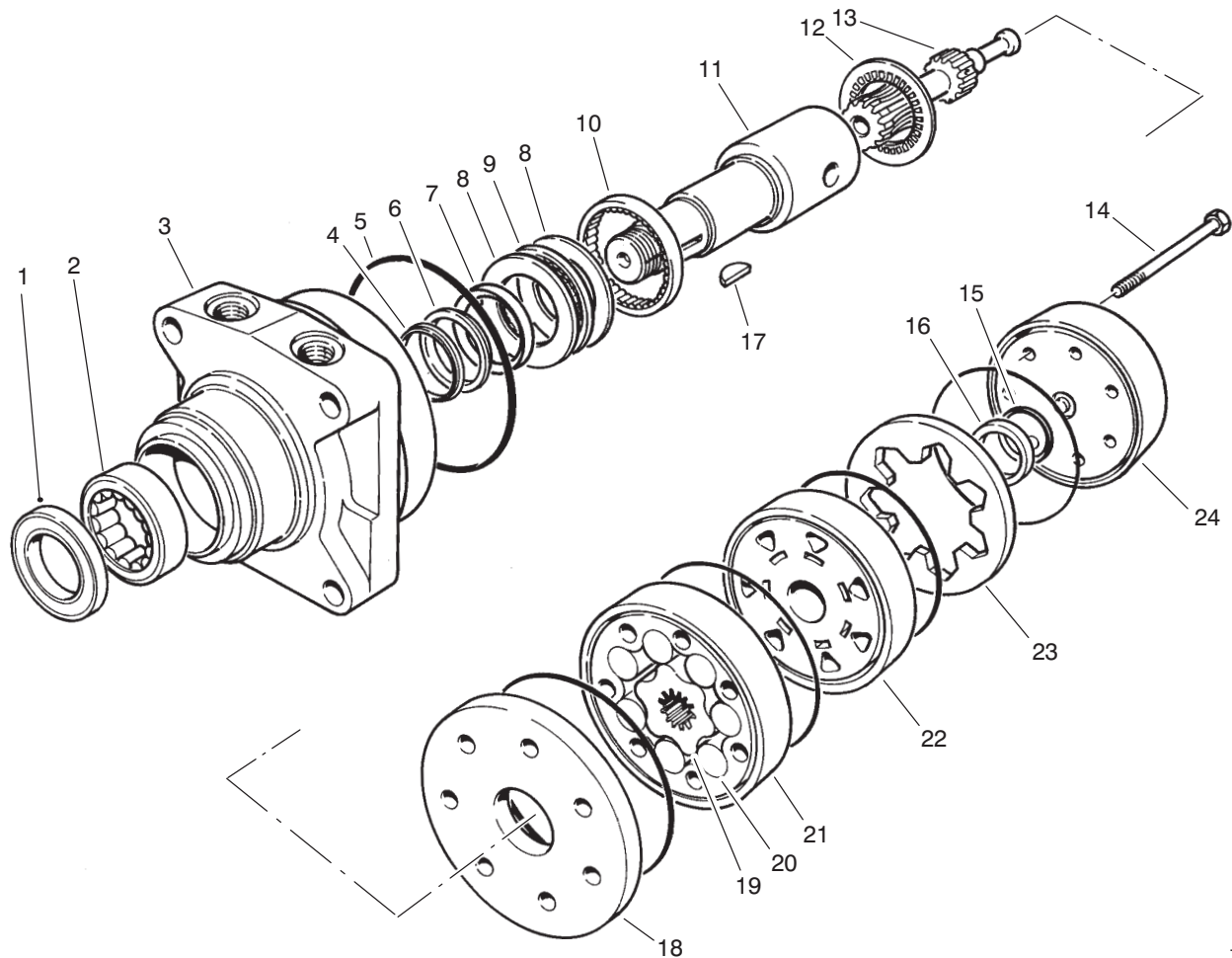
T-0293B

WHEEL AND BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	242-50	Nut - Wheel	8	30	302-60	Fitting - Grease	1
2	28-3680	Tire	2	31	62-2440	Arm - Lift, R.H.	2
*	231-124	Tire - Treaded	2	32	3272-11	Pin - Cotter	2
*	62-2580	Spacer	2	33	3256-26	Washer - Flat	3
3	217-60	Rim	2	34	57-7650	Spring - Torsion	2
4	26-3790	Nut - Lock	2	35	94-5588	Bar - Arm Lift, R.H.	1
5	10-6870	Hub - Wheel	2	36	63-8750	Pin - Pivot	2
6	85-6540	Stud - Drive Type	8	37	92-9177	Frame - Pull, R.H.	1
7	70-9840	Shoe & Lining Assembly	4	38	322-1	Screw - Cap, Hex. Hd.	1
8	321-5	Screw - Cap, Hex. Hd.	8	39	3256-23	Washer - Plain	1
9	3296-42	Nut - Lock	8	40	10-6090	Pin - Pivot	1
10	325-11	Screw - Cap, Hex. Hd.	8	41	3296-16	Nut - Lock, Flange	3
11	84-2000	Bracket - Brake	2	42	283-62	Pin - Clevis	2
12	237-80	O-Ring	4	43	3272-10	Pin - Cotter	2
13	340-14	Fitting (Incl. Ref. #12 & 14)	4	44	75-9990	Motor - Hydraulic	2
14	237-65	O-Ring	4	45	3257-42	Key - Woodruff	2
15	32108-100	Screw - Mach. Phillips Hd.	3	46	70-9850	Clip - Retainer	2
16	49-5450	Plate - Cover	1	47	62-5070	Decal - Danger	1
17	57-6140	Clamp - Tube Side	4	48	70-9870	Plate - Backing, Brake	2
18	3234-4	Screw - Cap, Hex. Hd.	4	49	70-9860	Shaft - Cam	2
19	49-5430	Rod - Control	1	50	70-9880	Spring	4
20	3220-2	Nut	1	51	10-6821	Drum Assy. (Incl. Ref. #5-6)	1
21	282-2	Yoke	2	52	232-24	Valve Stem w/Cap	2
22	10-8220	Pad - Tool Box	1	53	3219-2	Nut - Full	1
23	49-5410	Box - Tool	1	54	93-9936	Bracket - Return, Traction	1
25	3296-23	Nut - Lock	8	55	3296-29	Nut - Lock	1
26	10-8110	Washer - Thrust	6	56	3217-6	Nut - Full	1
27	3-0348	Bushing	6	57	93-9937	Asm. - Cable, Traction	1
28	71-1510	Arm - Brake R.H.	1	*	71-1500	Brake Assembly (Incl. Ref. #7, 46, & 48-50)	2
29	10-7820	Hinge - Pivot (Incl. Ref. #27 & 30)	1	*†	232-37	Inner Tube - Heavy Duty	2

*Not Illustrated

†Service Replacement Part



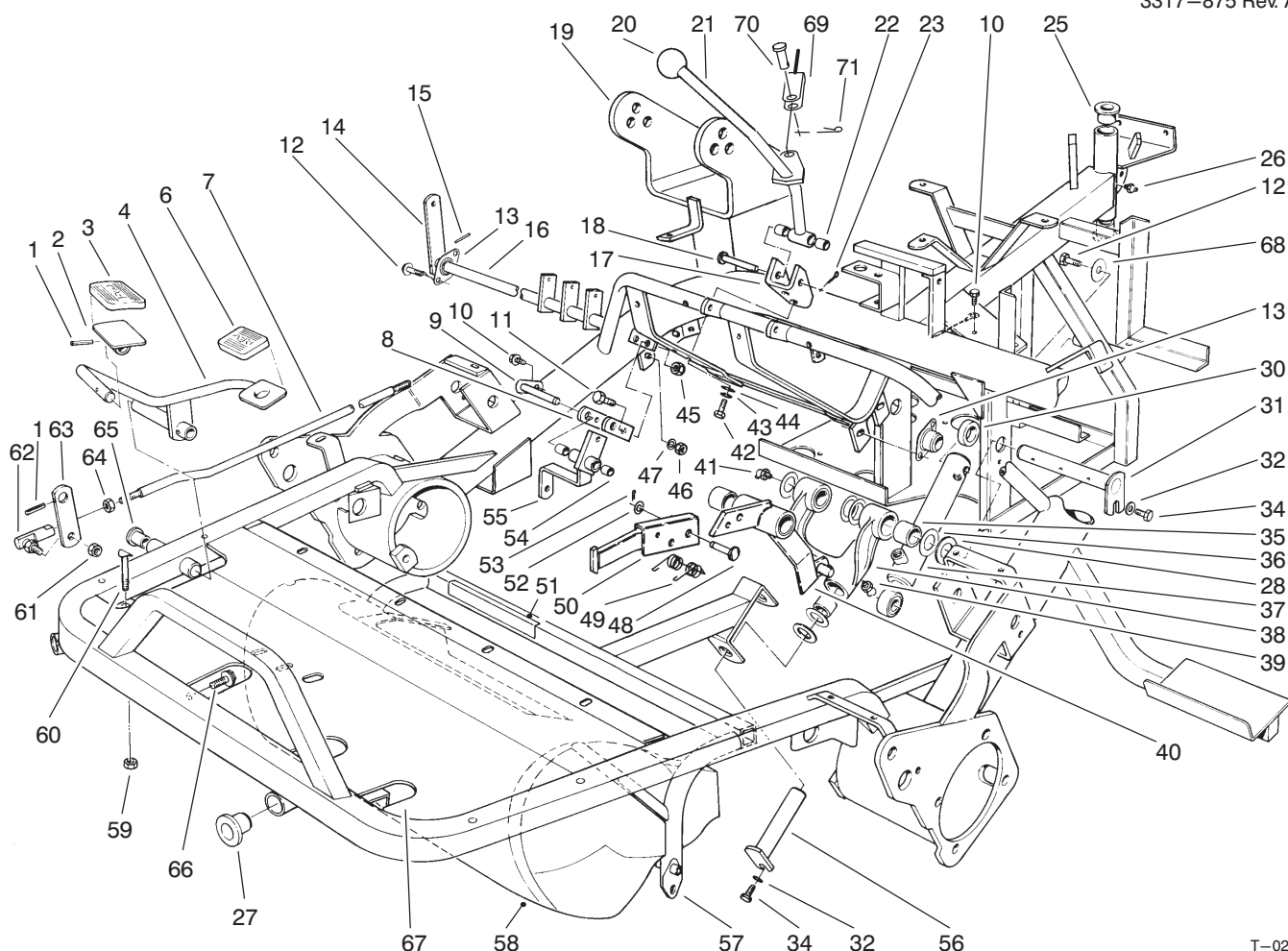
T-0987

HYDRAULIC DRIVE MOTOR NO. 75—9990

Ref. No.	Part No.	Description	No. Used
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

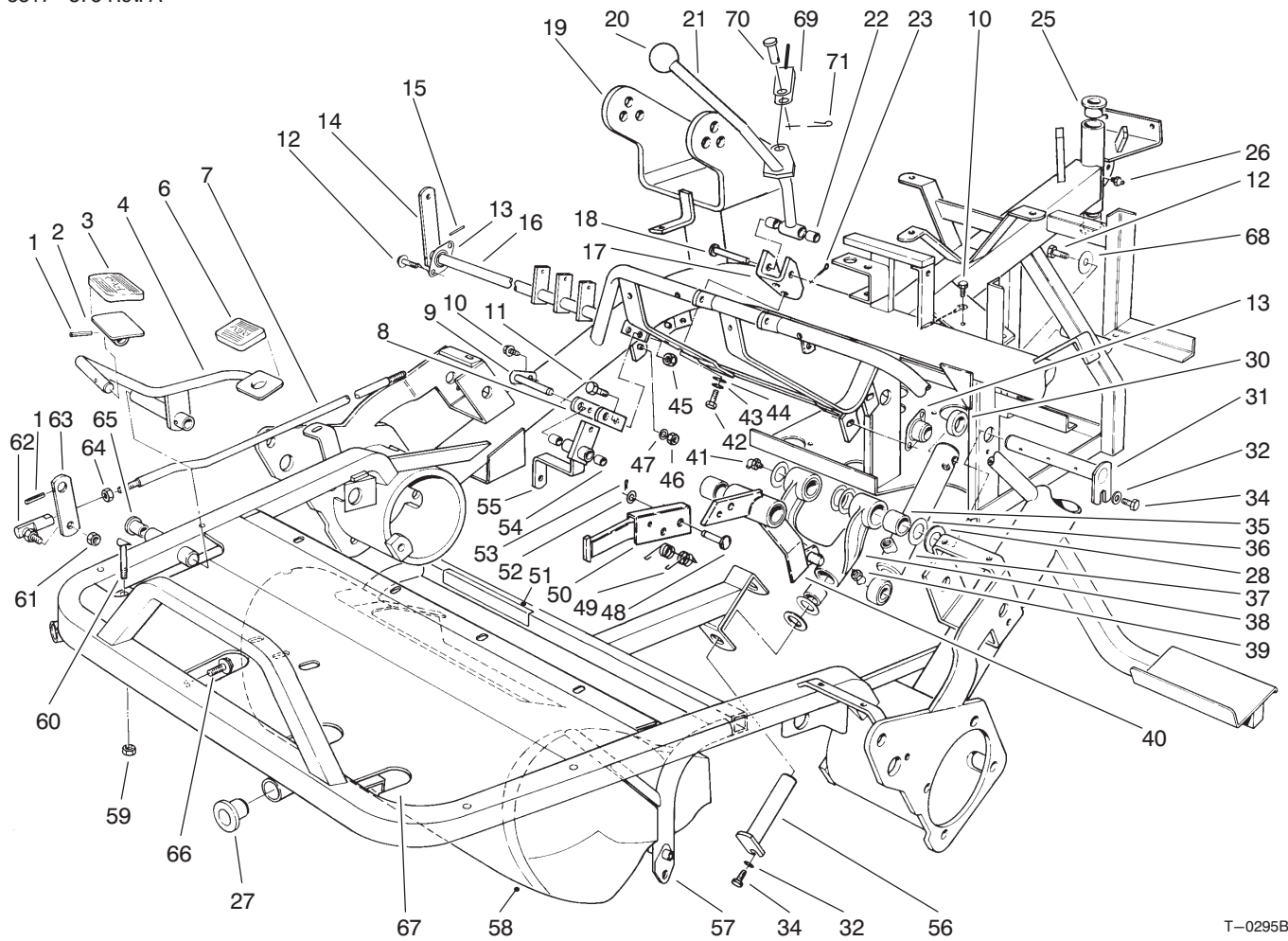
*Not Illustrated



T-0295B

FRAME ASSEMBLY

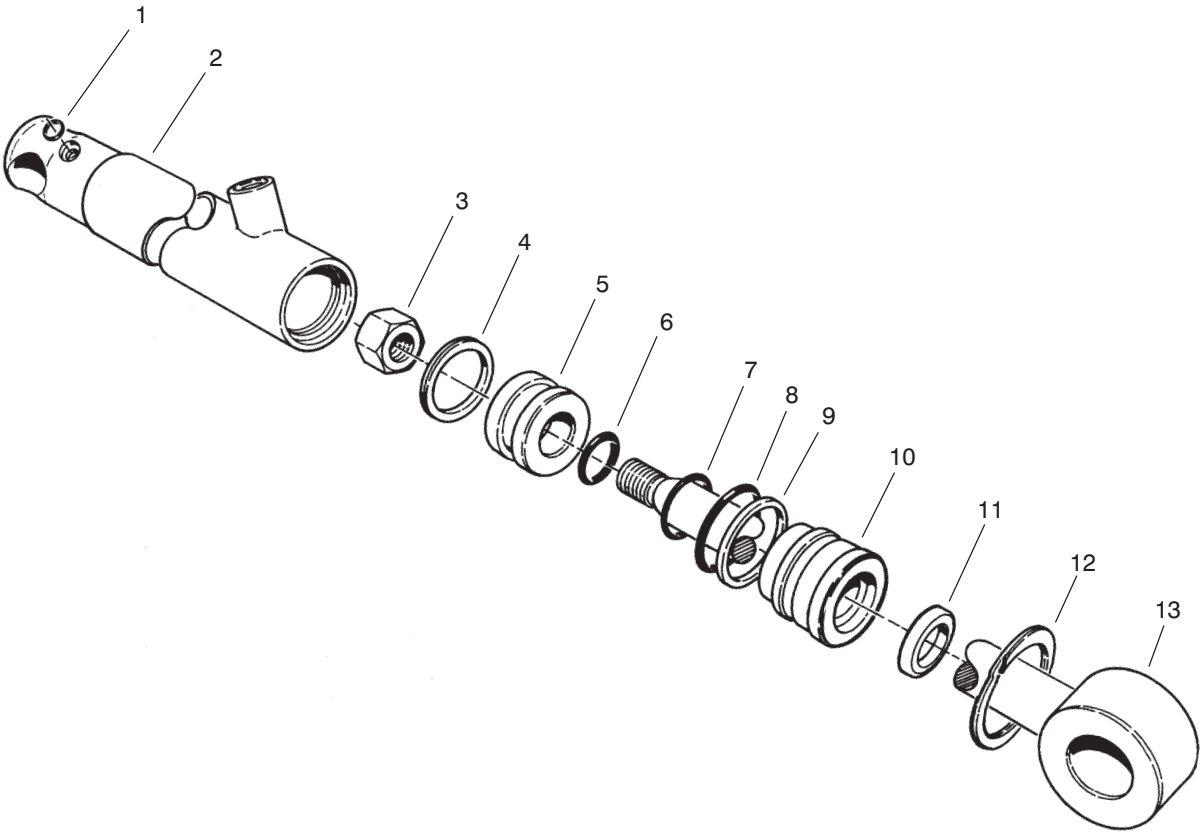
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32121-45	Pin-Roll	2	27	83-1700	Bushing - Flange	3
2	49-6440	Pedal - Accelerator	1	28	5-1226	Washer	A/R
3	49-6470	Pad - Pedal Forward	1	30	27-2540	Spacer - Hub	1
4	83-0540	Rod - Accelerator	1	31	27-2550	Pin - Hinge	1
6	49-6430	Pad - Pedal Reverse	1	32	3256-23	Washer - Flat	2
7	49-6320	Rod - Traction Control	1	34	322-1	Screw - Cap, Hex Hd.	2
8	49-6250	Bracket - Traction Pivot	1	35	3-0348	Bushing	6
9	49-6290	Shaft - Traction Pivot	1	36	10-8110	Washer-Thrust	6
10	12-3270	Screw - Pentafllo	1	37	83-7000	Hydraulic Cylinder Assy.	1
11	322-5	Screw - Cap, Hex Hd.	2	38	10-7820	Pivot Hinge (Incl. Ref. #35)	1
12	3234-1	Screw - Flange, Hex. Hd.	4	39	302-60	Fitting - Grease	1
13	27-2320	Side Flange - Bearing	2	40	88-9670	Lift Arm - Center (Incl. Ref. #35)	1
14	47-5320	Lever - Cutting Control	1	41	302-11	Fitting - Grease	1
15	32121-6	Pin - Roll	1	42	3211-1	Screw - Cap, Hex Hd.	2
16	44-0870	Camshaft - Rear	1	43	3254-6	Washer - Lock	2
17	49-6220	Bracket - Control Arm	1	44	3256-24	Washer - Flat	2
18	283-57	Pin - Clevis	1	45	3296-29	Nut - Lock	2
19	92-1192	Frame (Incl. Ref. #25 & 65)	1	46	3296-59	Nut - Lock	4
20	233-48	Knob	1	47	3256-24	Washer - Flat	4
21	93-9934	Handle - Traction (Incl. Ref. #22)	1	48	63-8750	Pin - Pivot	1
22	256-251	Bushing	2	49	57-7650	Spring - Torsion	1
23	3272-4	Pin - Cotter	1	50	62-2420	Bar - Lift Arm (Center)	1
25	256-290	Bushing	2	51	62-5070	Decal - Danger	1
26	302-5	Fitting - Grease	1	52	3256-26	Washer - Flat	1



T-0295B

FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
53	3272-11	Pin - Cotter	1	62	2411-32	Ball Joint	2
54	256-2	Bushing	2	63	92-1194	Plate - Traction	1
55	49-6260	Tube - Traction Pivot (Incl. Ref. #54)	1	64	3220-2	Nut - Hex. Jam	2
56	10-6090	Pin - Pivot	1	65	256-219	Bushing	2
57	86-9820	Pull Frame - Rear	1	66	32144-14	Screw - Cap, Hex. Hd.	1
58	36-7250	Grass Basket	3	67	88-6900	Plate - Footrest	1
59	32128-20	Nut - Hex	1	68	10-7920	Washer	1
60	77-0480	Screw - Accelerator Stop	1	69	93-9937	Asm. - Cable, Traction	1
61	3296-4	Nut - Lock	2	70	283-62	Pin - Clevis	1
				71	3272-10	Pin - Cotter	1

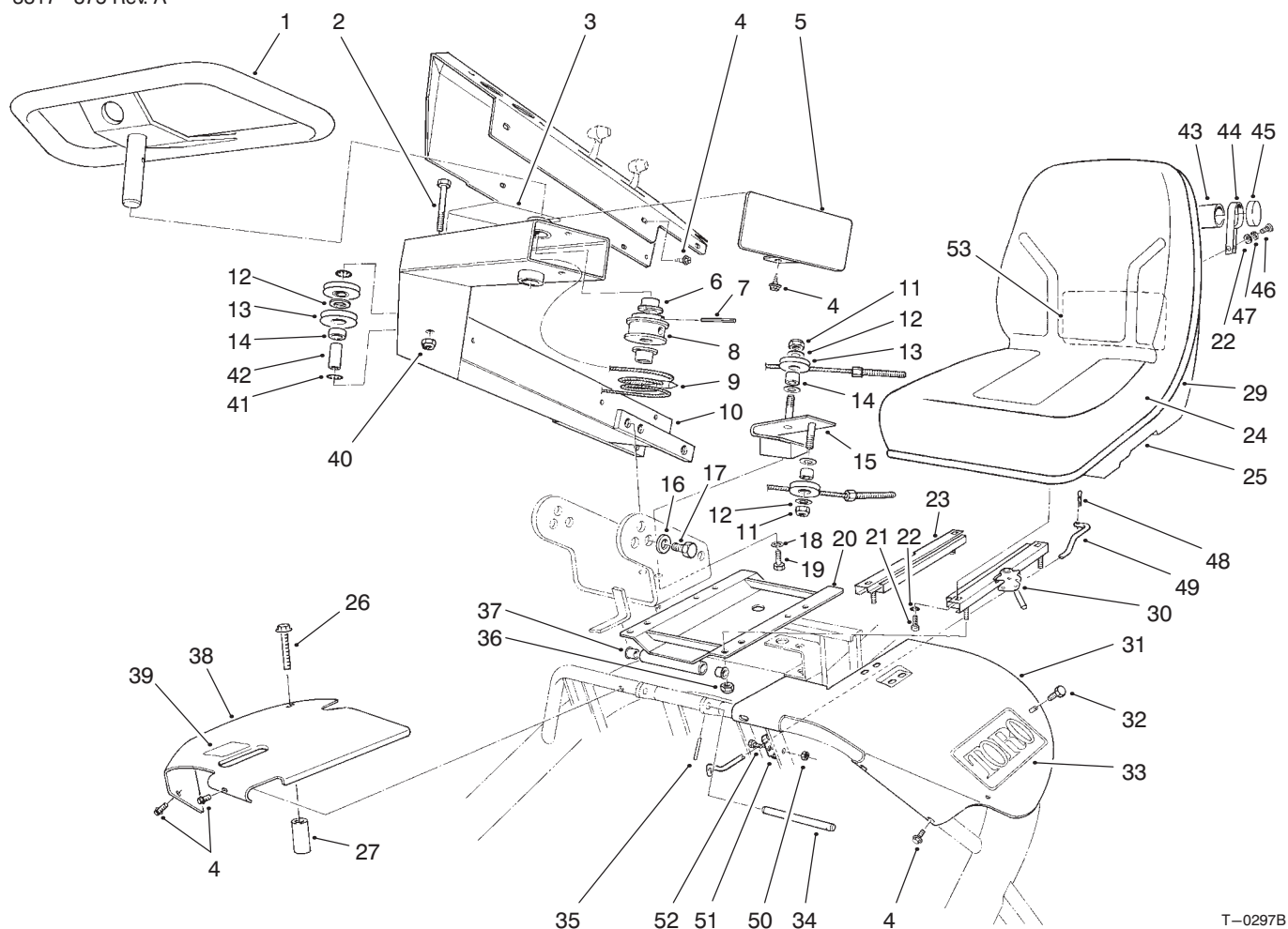


T-0217

REAR HYDRAULIC CYLINDER NO. 83-7000

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	237-78	O-Ring	2	9		Back-Up	1
2	43-5260	Barrel w/Clevis & Ports	1	10	70-2770	Head	1
3	32152-10	Nut	1	11		Seal - Dust	1
4		Uniring - Grooved	1	12	43-5220	Ring - Retaining	1
5	70-2780	Piston	1	13	43-5230	Shaft with Clevis	1
6		O-Ring	1	*	86-5360	Seal Repair Kit	1
7		PDF Ultrathan	1			(Incl. Ref. #4, 6-9 & 11)	
8		O-Ring	1				

*Not Illustrated

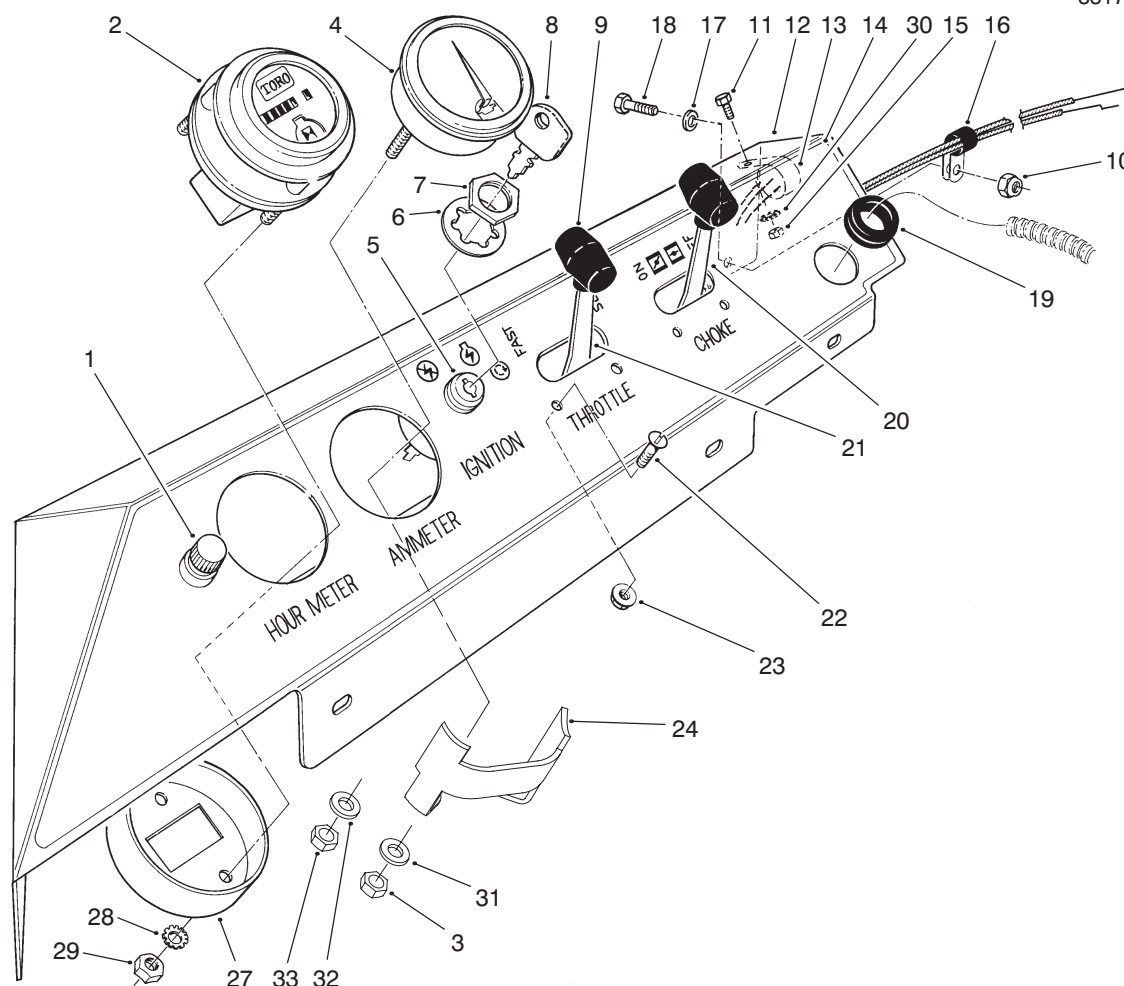


STEERING AND SEAT ASSEMBLY

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
26	94-2691	Screw - HWH	1

Ref. No.	Part No.	Description	No. Used
27	76-2660	Tube - Spacer	1
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	1
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



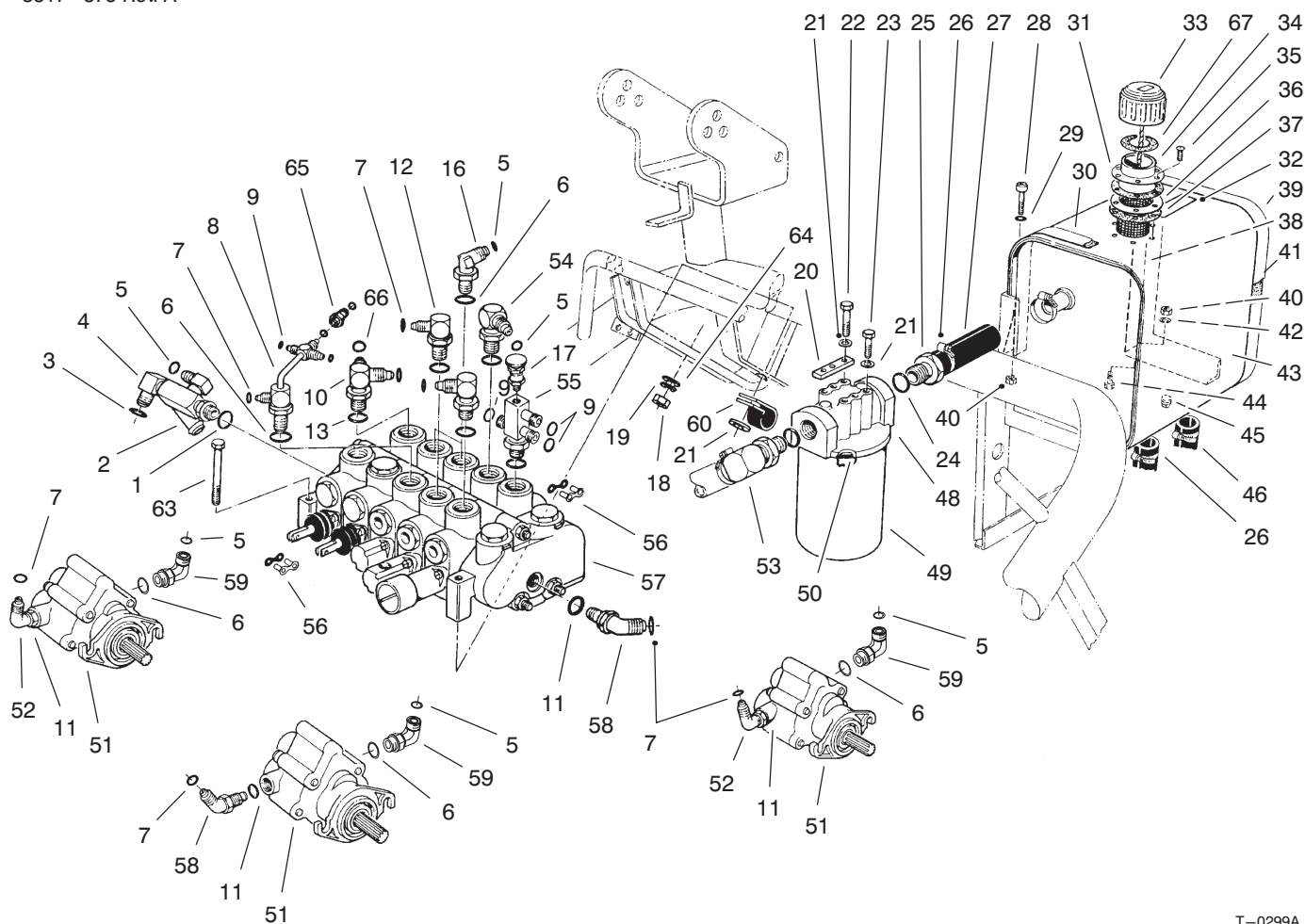
T-0298-1

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	218-489	Fuse Holder	1	16	2412-41	Clip	1
*†		30 Amp Fuse	1	17	3253-23	Washer - Flat	1
2	66-2950	Hour Meter Assembly (Incl. Ref. #27-29)	1	18	322-4	Screw - Cap, Hex. Hd.	1
3	3217-27	Nut	2	19	237-100	Grommet	1
4	83-0820	Ammeter Assembly (Incl. Ref. #3, 24 & 31-33)	1	20	62-2130	Control - Choke (Incl. Ref. #9)	1
5	23-0660	Key Switch (Incl. Ref. #6-7)	1	21	68-9930	Control - Throttle (Incl. Ref. #9)	1
6	3254-5	Washer - Lock	1	22	32105-8	Screw - Machine, Rd. Hd.	4
7	218-461	Nut - Hex	1	23	32149-7	Nut - Lock	1
8	63-8360	Key	1	24	94-6960	Clamp - Ammeter	1
9	233-50	Knob	2	27		Clamp - Hour Meter	1
10	32128-20	Nut - Lock	1	28	3255-20	Washer - Lock ETLW	2
11	321-3	Screw - Cap, Hex. Hd.	1	29	3217-25	Nut	2
12	68-9910	Panel - Control	1	30	3255-7	Washer - Lock, Int. Tooth	1
13	59-9810	Module	1	31	3254-10	Washer - Lock, Ext. Tooth	2
14	68-9940	Decal - Control Panel	1	32	3255-24	Washer - Lock, Int. Tooth	3
15	32149-2	Nut - Lock, Keps	1	33	3217-16	Nut - Hex.	3

*Not Illustrated

†Obtain Locally

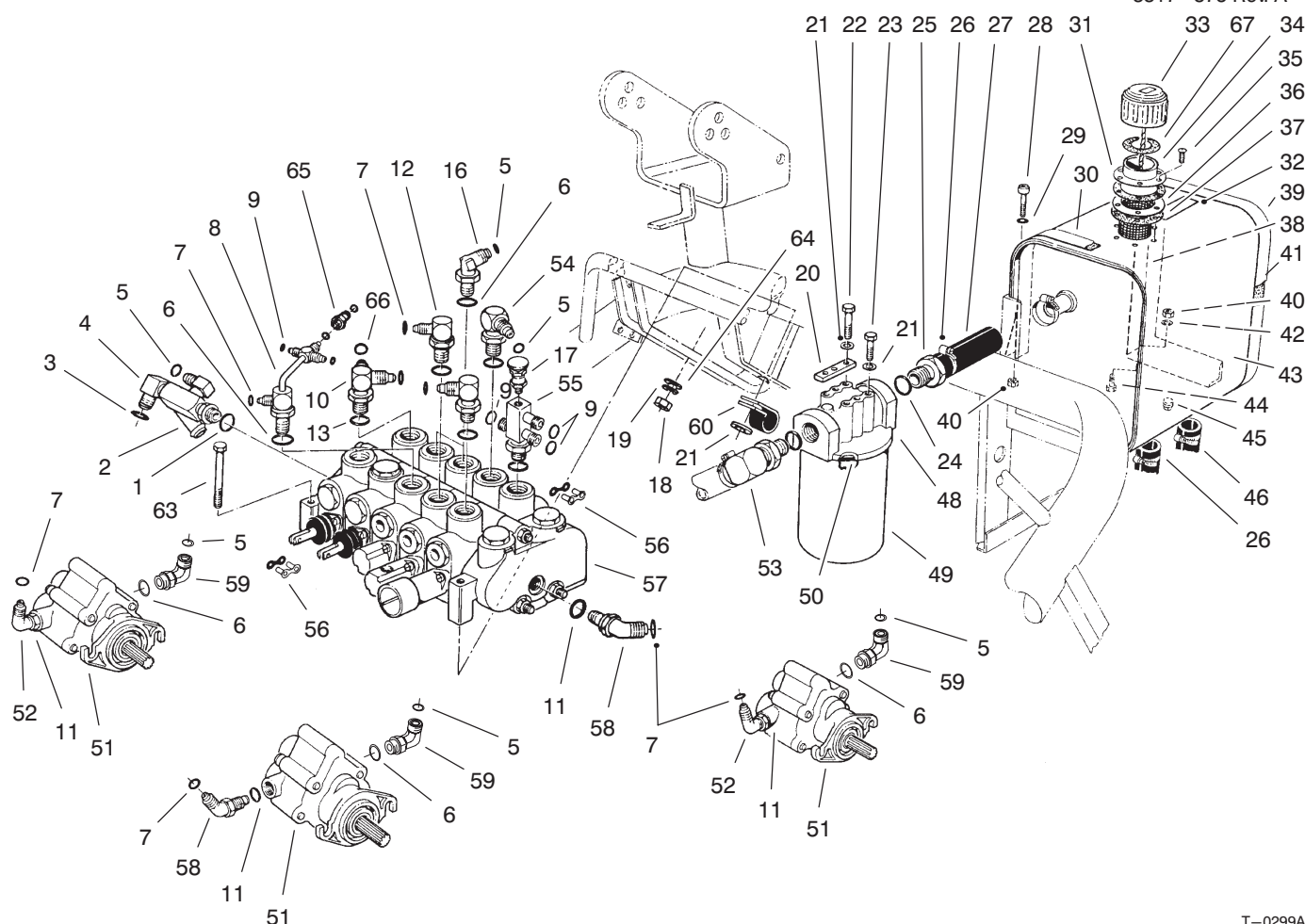


T-0299A

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	2
17	93-2554	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



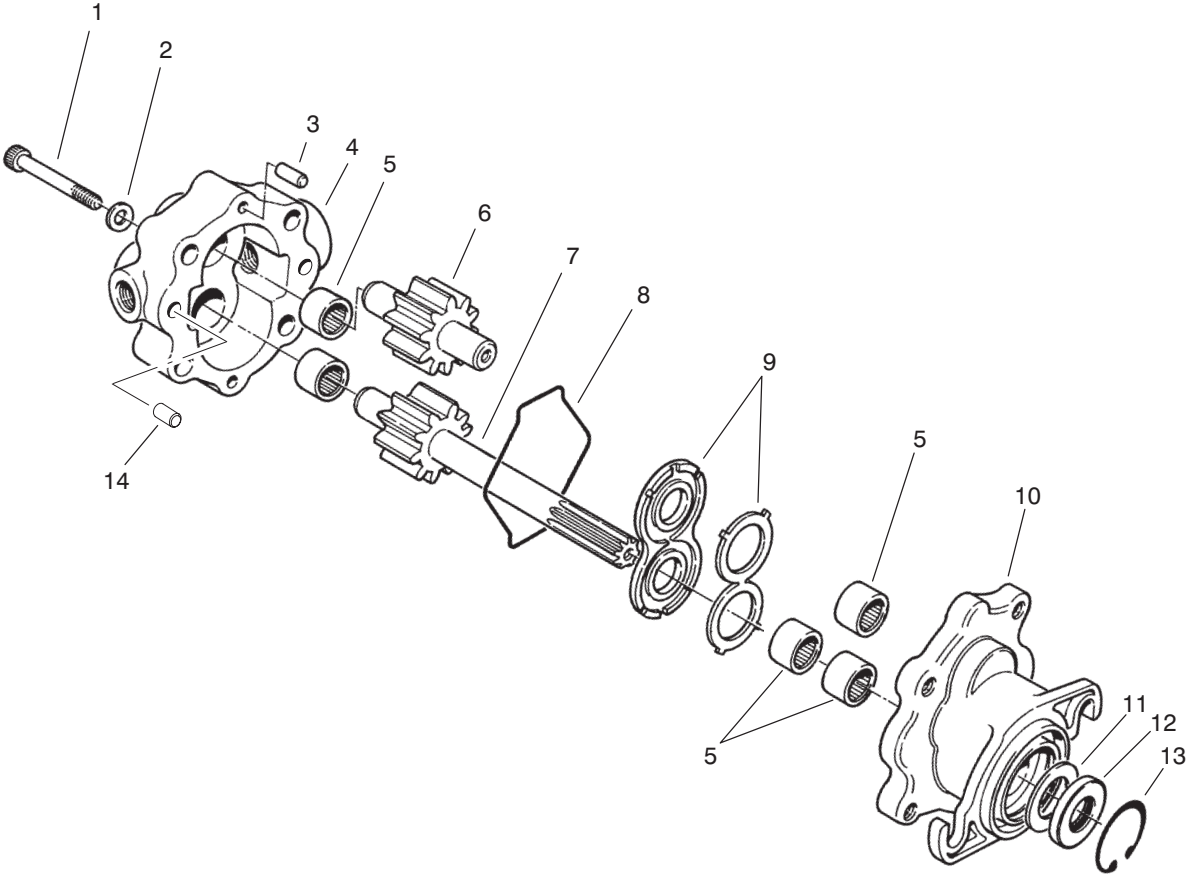
T-0299A

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	94-3506	Reel Motor	3
52	340-77	90° Elbow	3
53	353-564	90° Fitting	1
54	63-4090	90° Fitting - Extended	1
55	93-2555	Fitting - Hydraulic Valve (Incl. Ref. #9 & 11)	1
56	57-6220	Link Connector	5
57	84-2203	Control Valve	1
58	340-87	45° Fitting	2
59	340-98	90° Elbow	3

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
*	93-2556	Needle Valve Assembly (Incl. Ref. #9, 11, 17 & 55)	1
*	44-2500	Hydraulic Oil Dye	1

*Not Illustrated



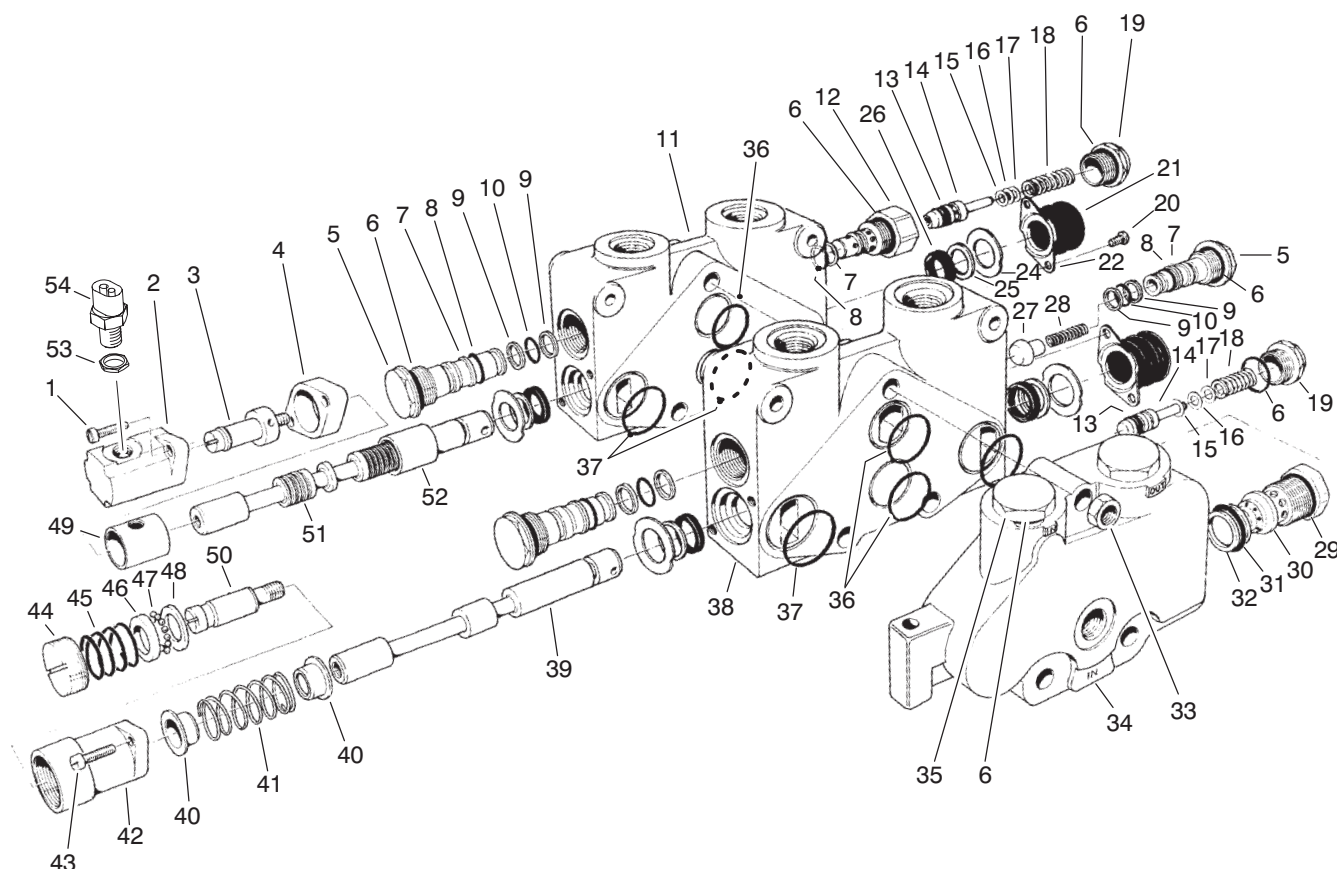
T-1872

REEL MOTOR NO. 94—3506

Ref. No.	Part No.	Description	No. Used
1	354—50	Screw — Hex. Socket Hd.	4
2	354—51	Washer	4
3	353—599	Pin — Dowel	2
4	94—3507	Cover Assembly (Incl. Ref. #5)	1
†5		Bearing — Needle	5
6	94—3509	Idler Gear Assembly	1
7	94—3508	Drive Shaft Assembly	1
8	354—46	Ring — Seal	1

Ref. No.	Part No.	Description	No. Used
9	74—3810	Load Plate Assembly	1
10	92—8795	Body Assembly (Incl. Ref. #5)	1
†11		Spacer	1
†12		Seal — Shaft	1
13	32151—41	Ring — Retaining	1
14	92—8796	Pin — Dowel	2
*	92—8863	Repair Kit (Incl. Ref. #8 & 11—13)	1

*Not Illustrated
†Not Serviced Separately

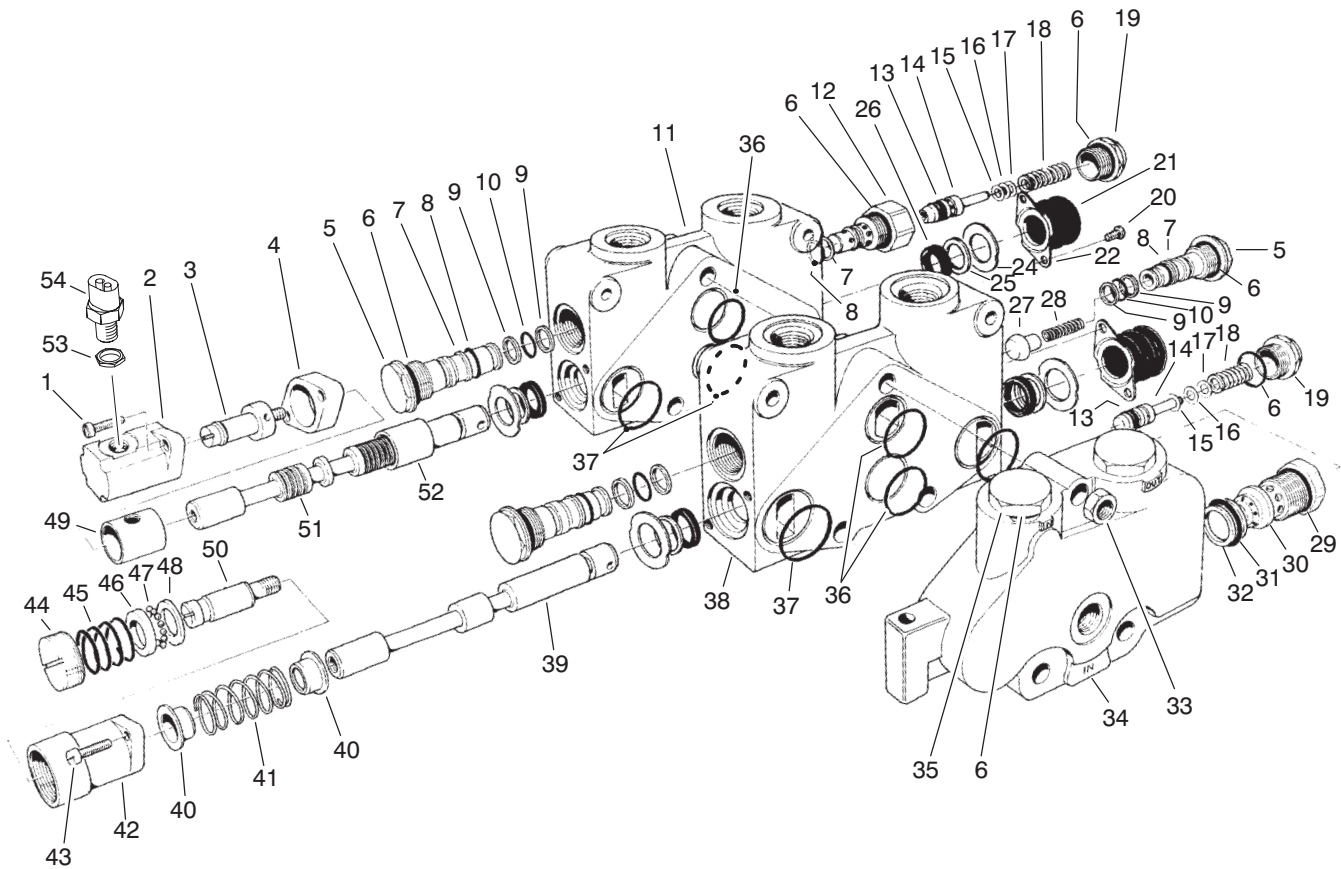


T-1318A

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	27	353-301	Poppet	1
2	353-727	Bonnet	1	28	353-304	Spring	1
3	353-729	Spud - Detent	1	29	353-331	O-Ring	1
4	353-733	Spacer - Bonnet	1	30	353-760	Body Relief	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3	31	353-758	Seal - O-Ring	1
6	237-54	O-Ring	8	32	353-952	Ring - Backup	1
7	353-306	Ring - Backup	4	33	3217-7	Nut - Hex	3
8	353-305	O-Ring	4	34	353-772	Left End Cover	1
9	353-303	Ring - Backup	6	35	353-721	Plug (Incl. Ref. #6)	2
10	353-302	O-Ring	3	†36		O-Ring	3
11		Housing V20T	1	†37		O-Ring	4
12	353-851	Body - Relief CP-RC Mod.	1	†38		Housing Section #1	1
13	353-392	Seal - Relief Poppet PTFE	2	†39		Spool V20 SPL	1
14	353-531	Poppet Assy. (Incl. Ref. #13)	2	40	353-417	Collar Spring	2
15	353-328	Washer - Shim	A/R	41	92-3048	Spring - Centering	1
16	353-329	Washer - Shim	A/R	42	353-754	Bonnet - R. Detent	1
17	353-330	Washer - Shim	A/R	43	3274-15	Screw - Fillister Hd.	2
18	353-855	Spring	2	44	353-763	Cap - Adjustment	1
19	353-334	Cap - Relief	2	45	353-579	Spring	1
20	3274-52	Screw - Hex, Socket Hd.	4	46	42-2680	Race R. Detent	1
21	353-575	Boot - Dust Cap	2	47	52-5880	Ball - Steel	12
22	93-3651	Retainer - Boot	2	48	354-29	Plate - Thrust	1
24	92-2547	Plate - Seal Retainer	4	49	353-728	Sleeve	1
25	92-2546	Wiper - Seal	4	50	353-762	Spud - Detent Out (Incl. Ref. #44)	1
26	353-957	Seal - Lip	4	†51		Spool V20 3 Way F.F.	1

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



T-1318A

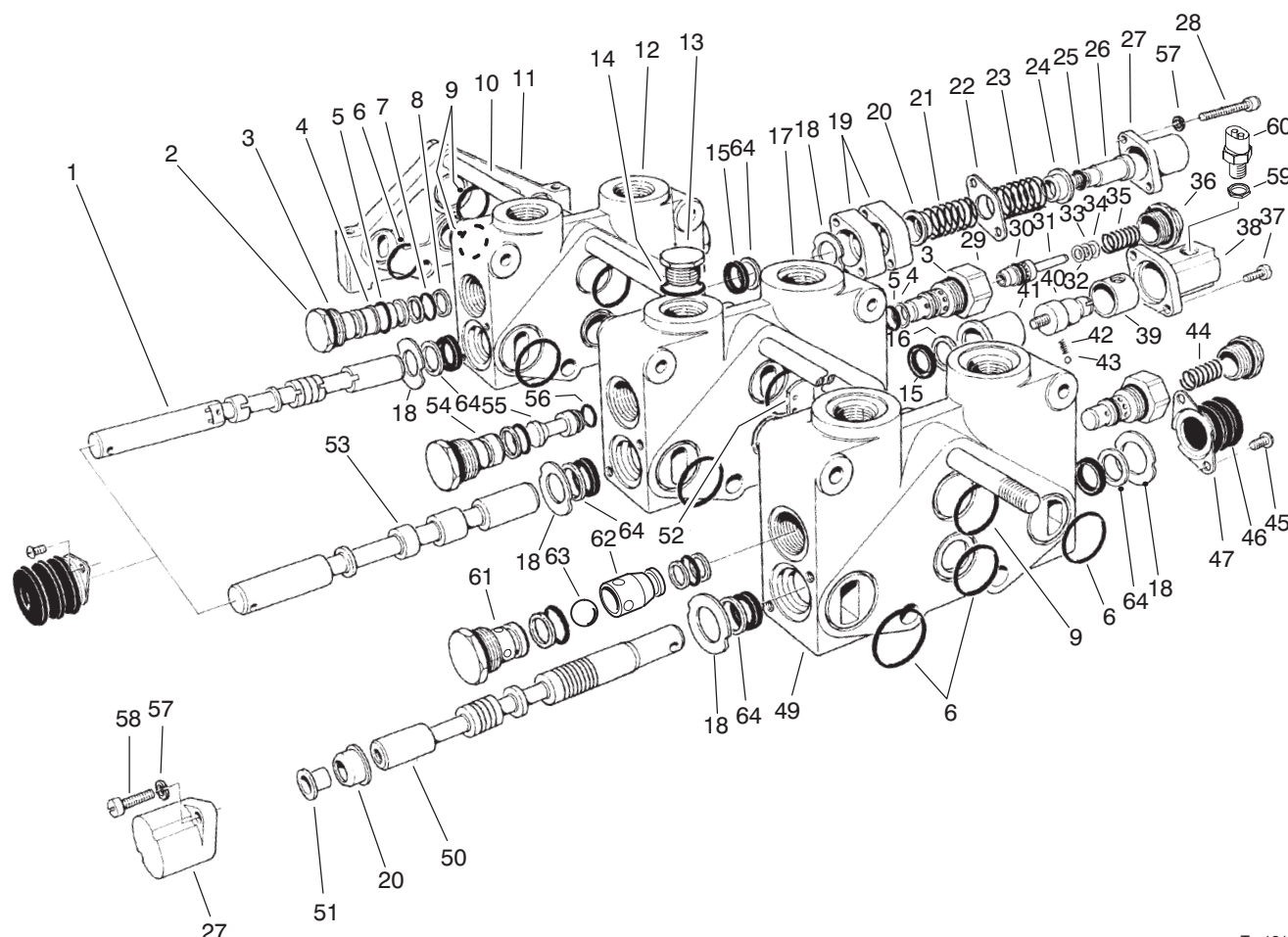
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
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
*	353-839	Positioner — DI (SPL) Assy. (Incl. Ref. #1, 3-5, 50 & 52)	1

Ref. No.	Part No.	Description	No. Used
*	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 (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

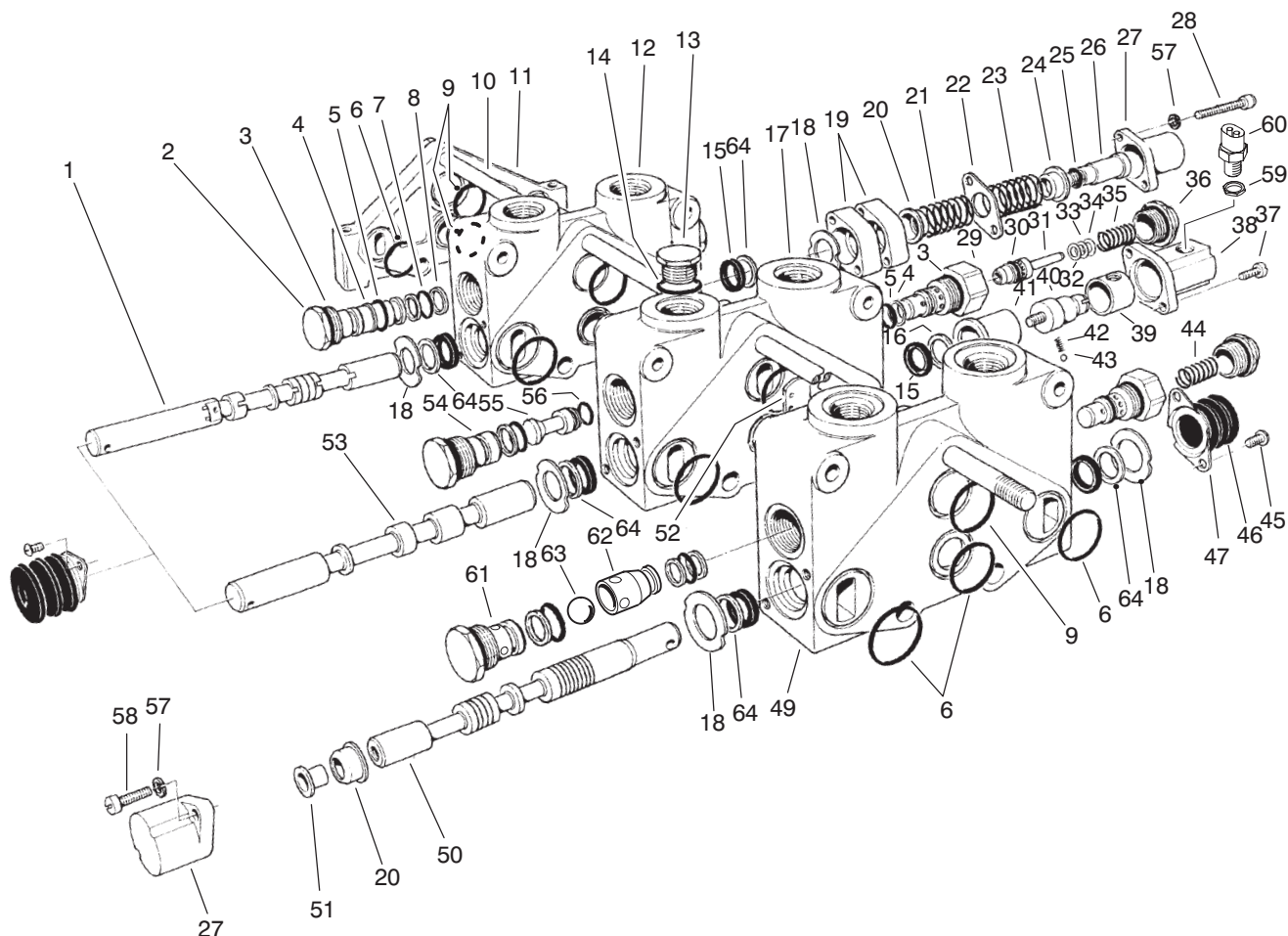


T-1319A

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

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	94-5434	Spool #5	1	24	353-808	Collar - Spring	1
2	353-481	Plug - Load Check (Incl. Ref. #3-5 & 7-8)	2	25	353-830	O-Ring	1
3	237-54	O-Ring	6	26	94-4248	Collar Spool	1
4	353-306	Ring - Backup	5	27	354-26	Bonnet	2
5	353-305	O-Ring	5	28	354-28	Screw - Hex, Socket Hd.	2
†6		O-Ring	11	29	353-851	Body - Relief CP-RC Mod.	2
7	353-302	O-Ring	3	30	353-392	Seal - Relief Poppet PTFE	2
8	353-303	Ring - Backup	6	31	353-531	Poppet Assembly (Incl. Ref. #30)	2
†9		O-Ring	5	32	353-328	Washer - Shim	A/R
10	353-853	Bolt - Hex Hd.	3	33	353-329	Washer - Shim	A/R
11	353-668	Plate - Cap, Cover RH	1	34	353-330	Washer - Shim	A/R
12		Housing V20 #5	1	35	353-398	Spring	1
13	353-550	Plug Assembly (Incl. Ref. #14)	1	36	353-334	Cap - Relief	2
14	353-848	O-Ring	1	37	52-5900	Screw - Fillister Hd.	4
15	353-957	Seal - Lip	6	38	353-847	Bonnet (SPL)	1
16	353-958	Ring - Backup	1	39	353-849	Sleeve	1
†17		Housing V20 #4	1	40	353-846	Spud - DI (SPL)	1
18	92-2547	Plate - Seal Retainer	6	41	353-845	Sleeve - Detent	1
19	353-733	Spacer - Bonnet	2	42	353-730	Spring	1
20	353-417	Collar Spring	2	43	353-731	Ball	1
21	353-831	Spring	1	44	353-855	Spring	1
22	353-529	Plate Seal	1	45	3274-52	Screw - Hex. Socket Hd.	6
23	92-3148	Spring	1	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

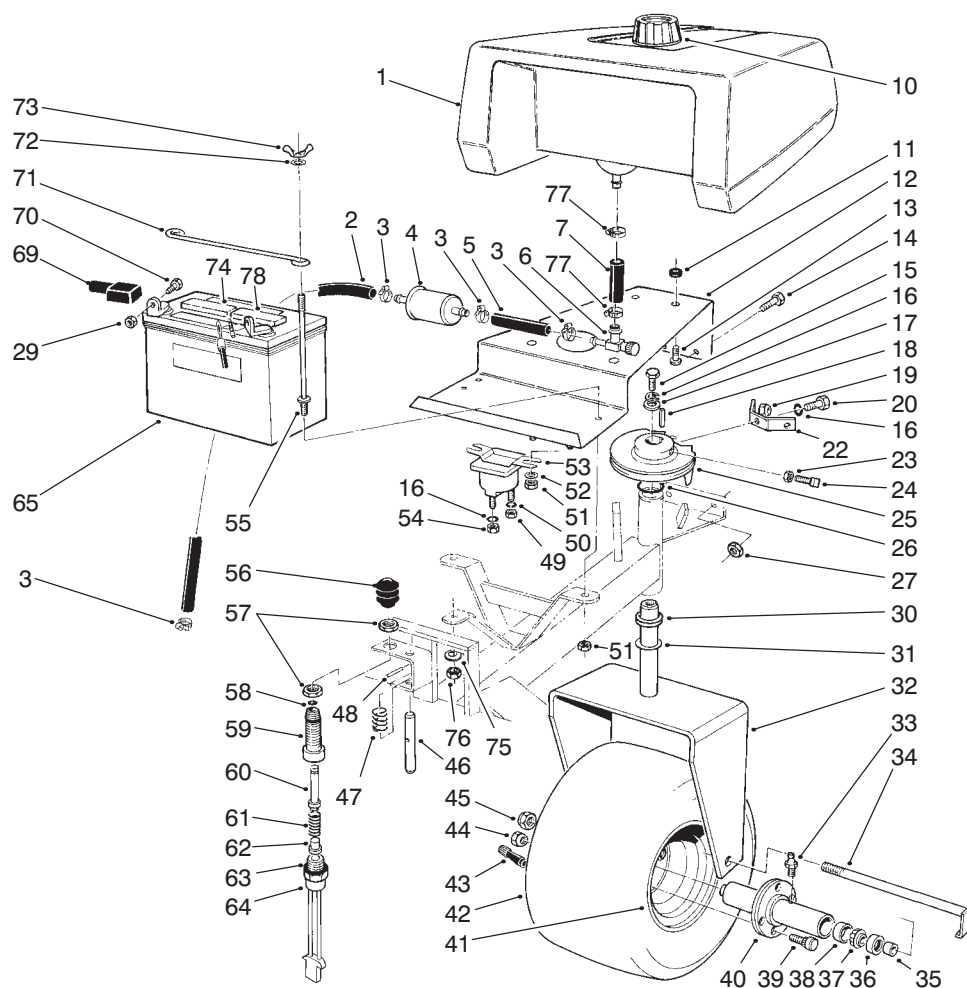
CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

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. #45-47)	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

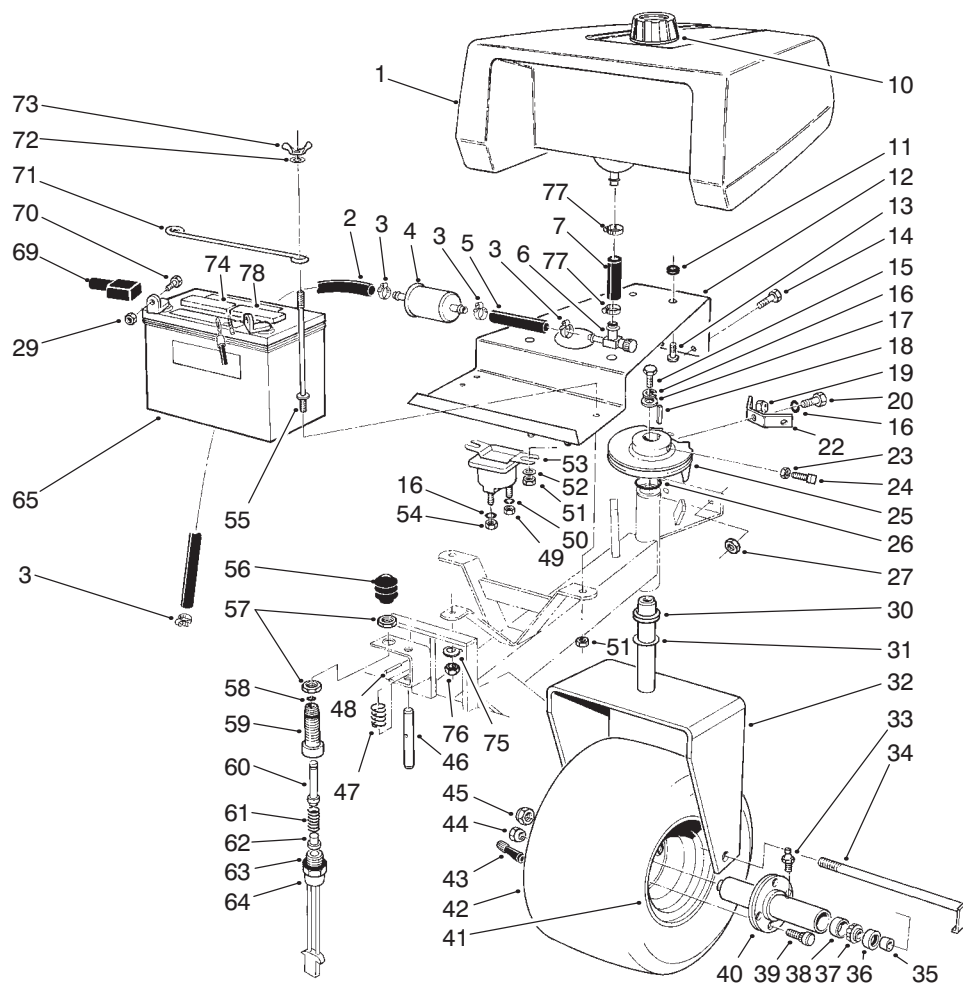
†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



T-0303

GAS TANK BATTERY AND CASTER WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	74-3580	Gas Tank	1	31	62-2170	Washer-Thrust	1
2	62-2470	Hose - Gas Line (Long)	1	32	62-2220	Caster Fork	1
3	2412-108	Clamp - Hose	4	33	302-5	Fitting - Grease	1
4	18-1520	Fuel Filter	1	34	5-3934	Bolt	1
5	56-2240	Hose - Gas Line (Short)	1	35	74-3730	Spacer	2
6	56-2520	Fitting - Fuel Shut-off	1	36	253-111	Seal	2
7	56-2230	Hose - Fuel Line	1	37	254-78	Cone	2
10	55-3570	Gas Cap	1	38	254-79	Cup	2
11	237-136	Grommet	4	39	10-6830	Drive Stud	4
12	62-2210	Tank Base	1	40	75-9440	Hub Assembly	1
13	3250-36	Screw - Phil. Hd.	4	41	217-60	Rim	1
14	323-6	Screw - Cap, Hex Hd.	2	42	28-3680	Tire	1
15	322-3	Screw - Cap, Hex Hd.	1	43	232-24	Valve Stem - With Cap	1
16	3253-4	Washer - Lock	4	44	242-50	Nut - Wheel	4
17	62-2190	Washer - Special	1	45	3296-67	Nut - Lock	1
18	5-0698	Key	1	46	51-0350	Pin - Seat Spring	1
19	3296-4	Nut - Lock	2	47	3-6685	Spring	1
20	322-5	Screw - Cap, Hex Hd.	1	48	3284-3	Pin Groove	1
22	3-8516	Anchor - Cable	1	49	3219-14	Nut-Hex	2
23	3218-2	Nut - Jam	2	50	3254-1	Washer - Lock	2
24	3242-9	Screw - Set, Sq. Hd.	2	51	32149-2	Nut - Lock	2
25	61-9390	Drum - Steering	1	52	3256-22	Washer - Flat	2
26	237-149	O-Ring - Seal	1	53	28-4210	Solenoid	1
27	3296-39	Nut - Lock	2	54	3218-13	Nut - Jam	2
29	3217-5	Nut - Hex	2	55	10-8120	Bolt - Battery	2
30	237-148	Seal - Quad Ring	1	56	43-8870	Boot - Switch	1



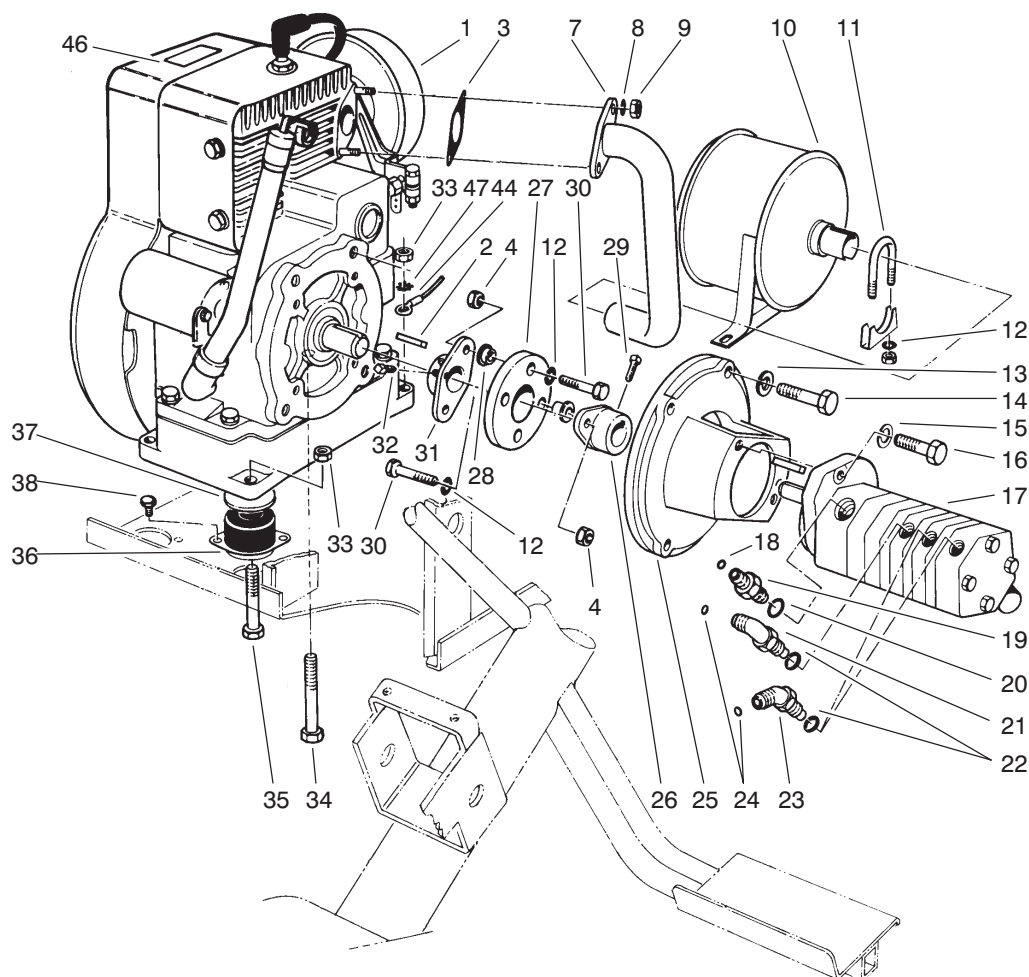
T-0303

GAS TANK BATTERY & CASTER WHEEL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
57	218-461	Nut - Jam	2
58	237-7	O-Ring	1
59	43-8620	Guide - Switch Pin	1
60	43-8860	Plunger - Switch	1
61	43-8600	Spring - Compression	1
62	43-8610	Guide - Spring & Ball Seat	1
63	237-30	O-Ring	1
64	72-4320	Switch - Neutral	1
65	28-1400	Battery	1
69	28-8080	Boot Terminal	1
70	321-3	Screw - Cap, Hex Hd.	2

Ref. No.	Part No.	Description	No. Used
71	72-4790	Hold Down - Battery	1
72	3256-22	Washer - Flat	2
73	32103-12	Nut - Wing	2
74	92-1707	Cap - Battery (Poison)	1
75	3256-23	Washer - Flat	1
76	3296-29	Nut - Lock	1
77	2412-36	Clamp - Gas Line	2
78	92-1699	Cap - Battery (Flush)	1
*	43-9071	Switch Assembly (Incl. Ref. #56-64)	1

*Not Illustrated

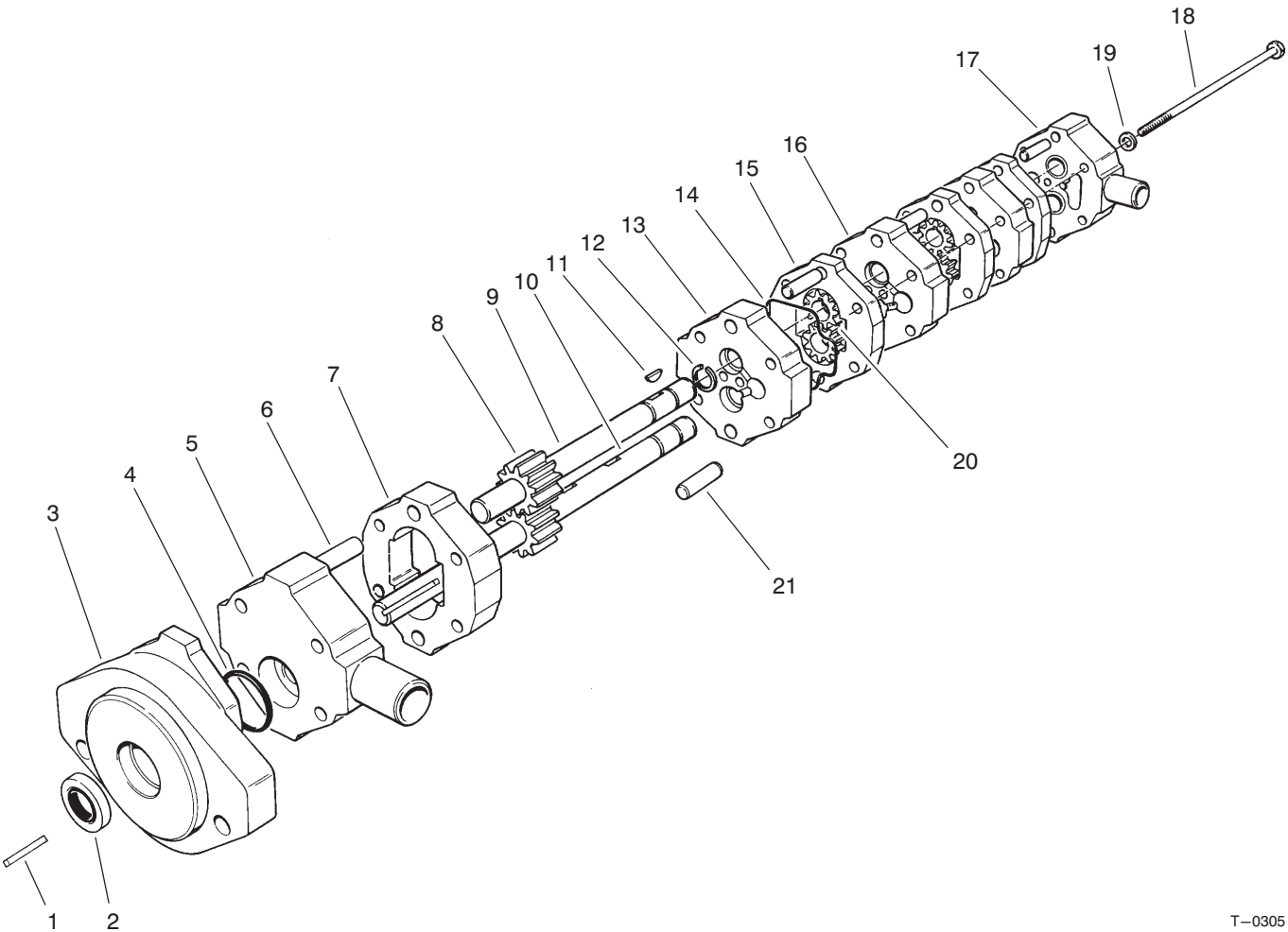


T-0304

ENGINE AND WIRING DIAGRAM

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	12-7189	Engine	1	25	27-1930	Pump Mount	1
2	10-7070	Key - Engine	1	26	27-1970	Coupling - Pump	1
3	82-5570	Gasket - Exhaust	1	27	44-2230	Coupling - Rubber	1
4	3296-29	Nut - Lock	4	28	27-6600	Spacer - Rubber	4
7	62-2270	Exhaust Pipe	1	29	3241-6	Screw - Set, Sq. Hd.	2
8	3253-4	Washer - Lock	2	30	322-6	Screw - Cap, Hex Hd.	4
9	3217-6	Nut - Hex	2	31	27-1960	Coupling - Engine	1
10	62-2110	Muffler Assembly	1	32	3241-2	Screw - Set, Sq. Hd.	2
*	62-2780	Spark Arrestor Muffler (Optional)	1	33	3296-39	Nut - Lock	4
11	2412-76	Muffler Clamp Assembly	1	34	323-15	Screw - Cap, Hex Hd.	1
12	3256-23	Washer - Flat	6	35	323-20	Screw - Cap, Hex Hd.	3
13	3253-6	Washer - Lock	4	36	27-2150	Mounting Pad - Engine	4
14	324-6	Screw - Cap, Hex Hd.	4	37	63-7400	Washer - Flat	4
15	3253-21	Washer - Lock	2	38	32144-1	Screw - Thread Forming	8
16	323-8	Screw - Cap, Hex Hd.	2	39	62-2350	Wire Harness - Column	1
17	62-2300	Traction Pump Assembly	1	40	88-9690	Wire Harness - Frame	1
18	237-30	O-Ring	1	41	88-9680	Wire Harness - Traction	1
19	340-6	Fitting - Straight	1	42	10-7130	Wire - Solenoid to Battery	1
20	237-79	O-Ring	1	43	28-2120	Wire - Battery to Ground	1
21	340-77	90° Fitting	1	44	27-3070	Wire - Battery to Engine	1
22	237-42	O-Ring	3	45	62-2630	Wire Assembly	1
23	340-87	45° Fitting	2	46	71-3620	Decal - Engine	1
24	237-22	O-Ring	2	47	3254-6	Washer - Lock	1

*Not Illustrated

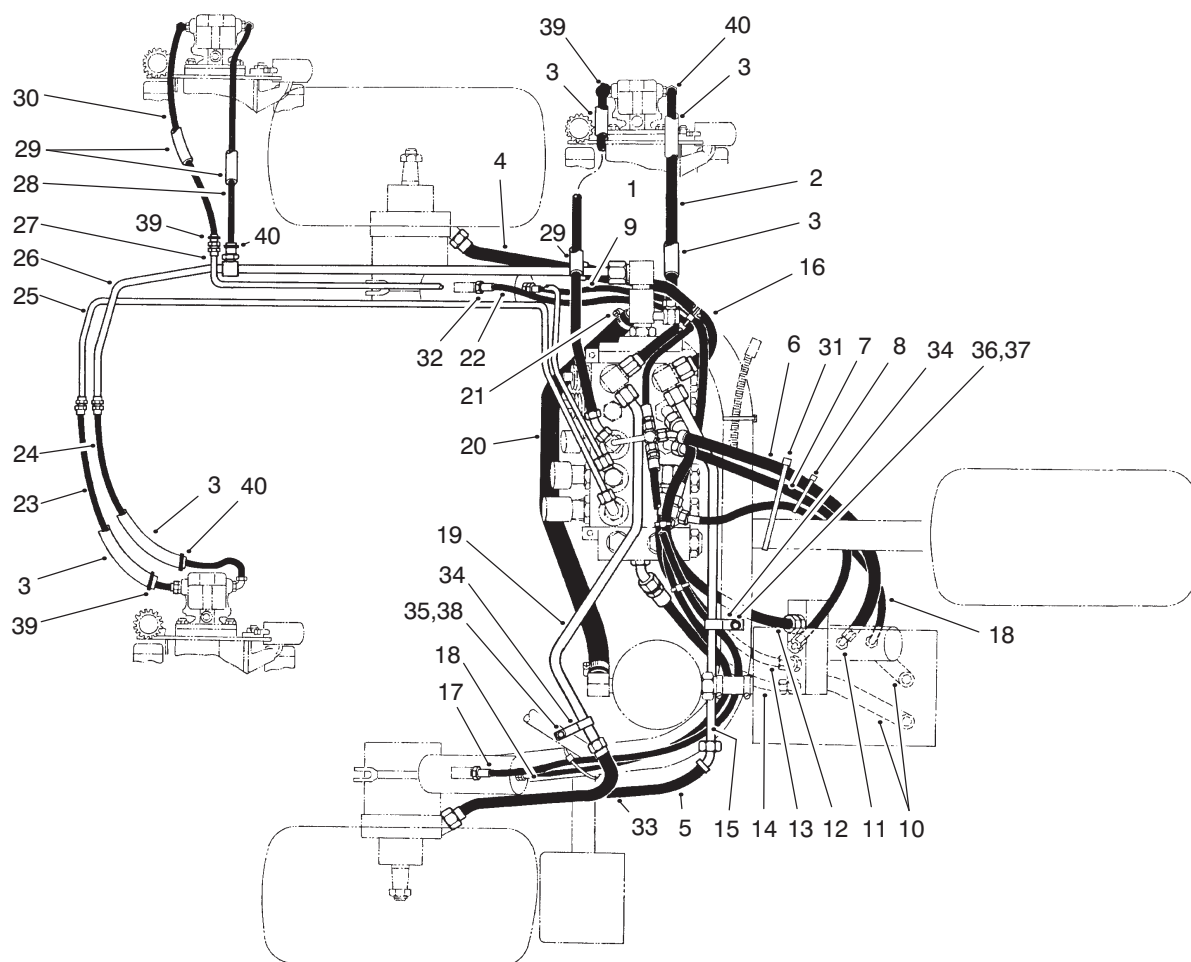


T-0305

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



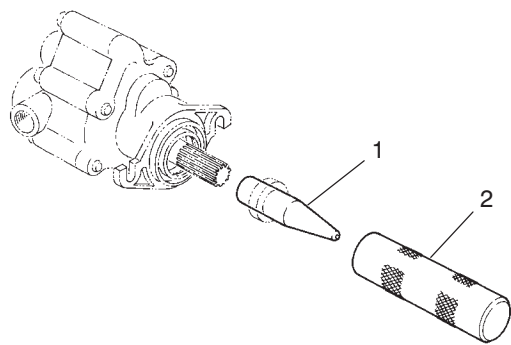
T-0306B

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 & 39)	1	23	63-3870	Hose - Pressure L.H. (Incl. Ref. #3 & 39)	1
2	63-3840	Hose - Return, Rear (Incl. Ref. #3 & 40)	1	24	63-3830	Hose - Return L.H. (Incl. Ref. #3 & 40)	1
3	56-7981	Sleeve - Protective	3	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 & 40)	1
7	63-3900	Hose - Pump #3	1	29	56-7980	Sleeve - Protective	3
8	3290-379	Tie - Cable	6	30	63-3810	Hose - Pressure R.H. (Incl. Ref. #29 & 39)	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	93-9346	Clamp - Hose, Pressure	6
18	63-3890	Hose - Cylinder - Lift L.H.	1	40	93-9347	Clamp - Hose, Return	6
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

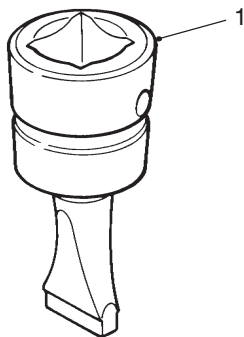
REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

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

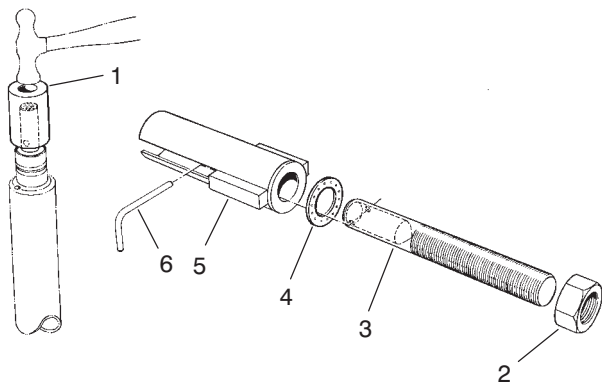
BED KNIFE SCREW TOOL NO. TOR510880



T-0729

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

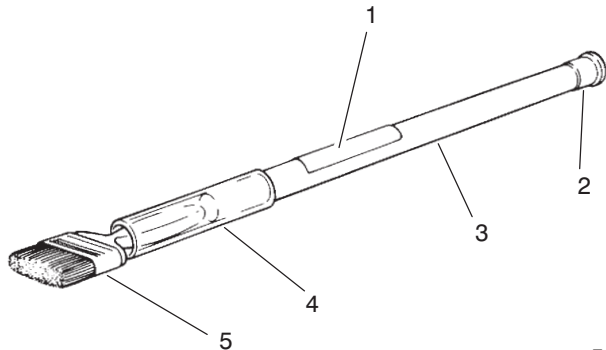
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



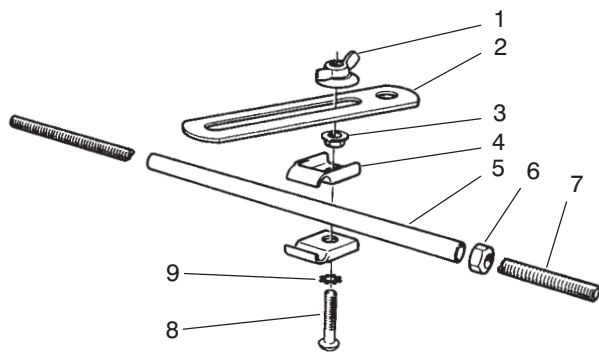
T-0731

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

dSPECIAL TOOLS (Continued)

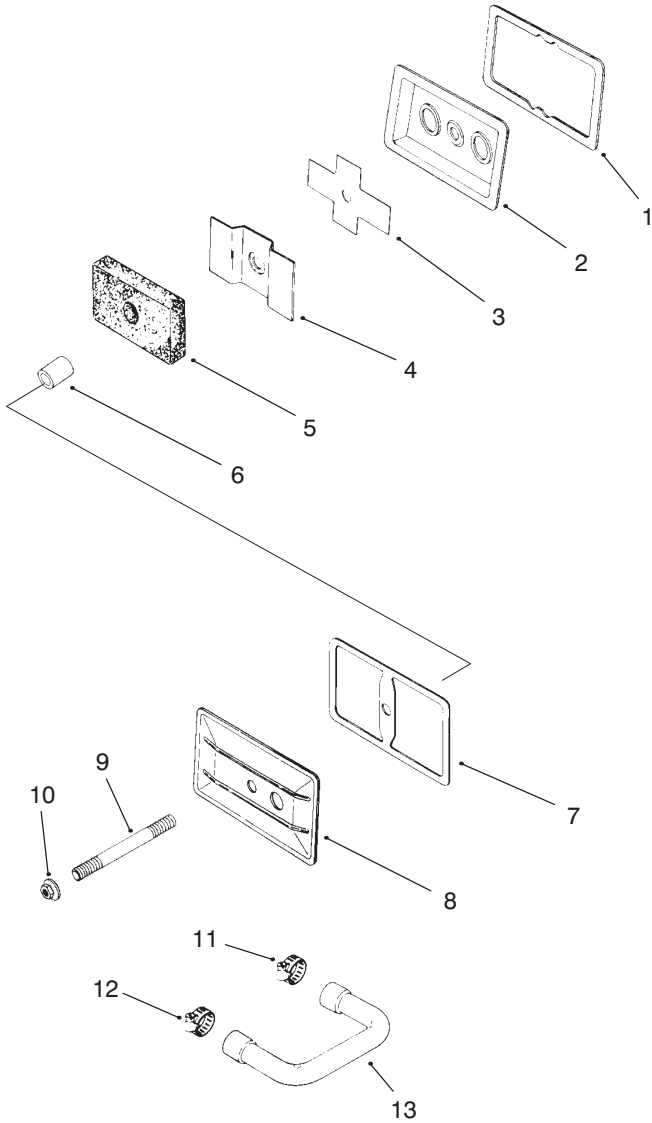
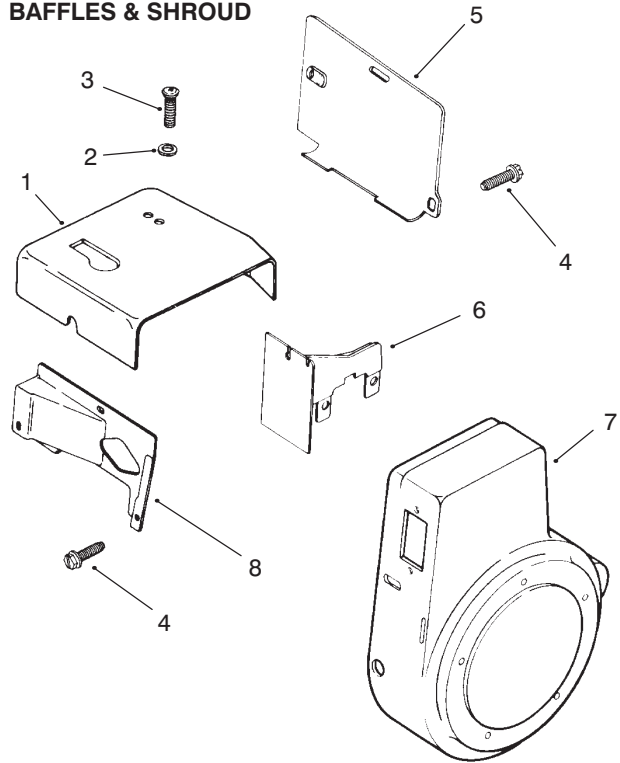
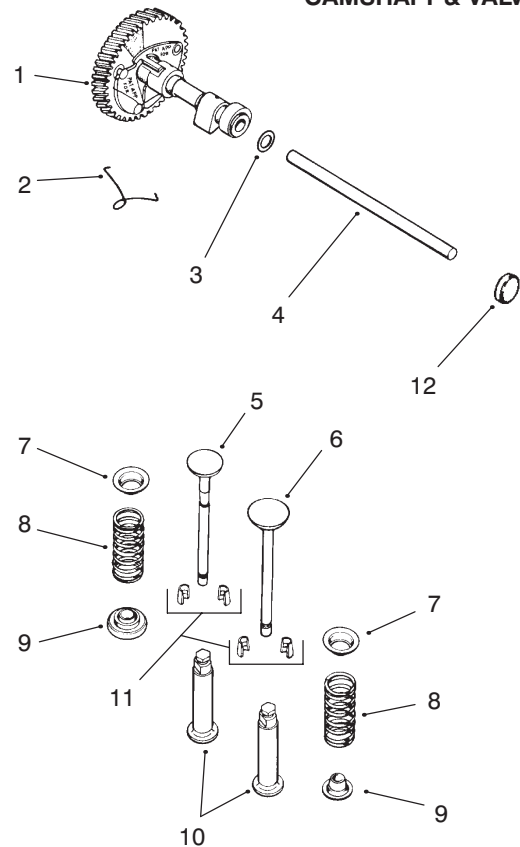
ALIGNMENT TOOL NO. TOR200120



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

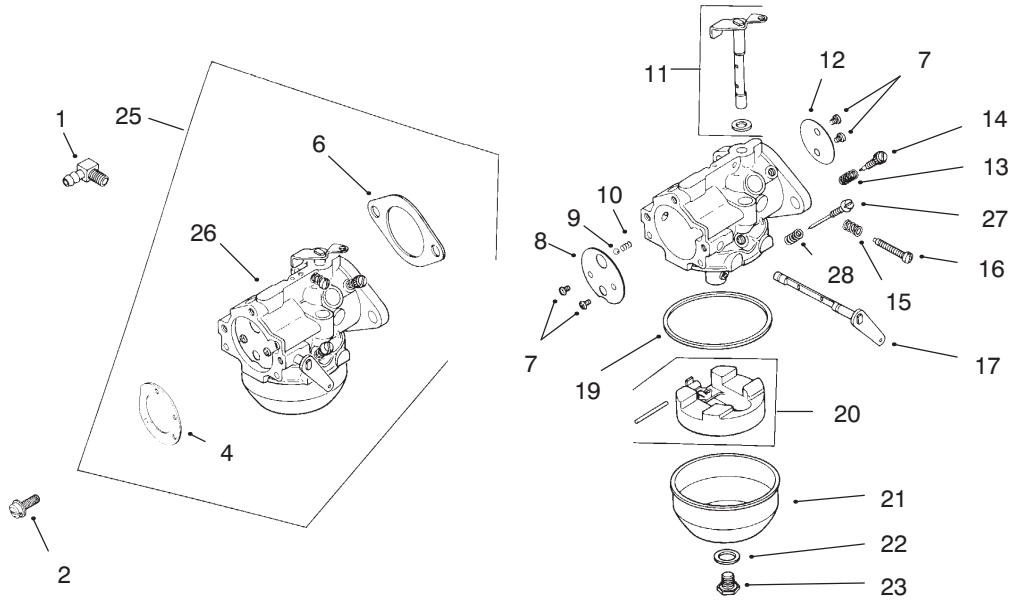
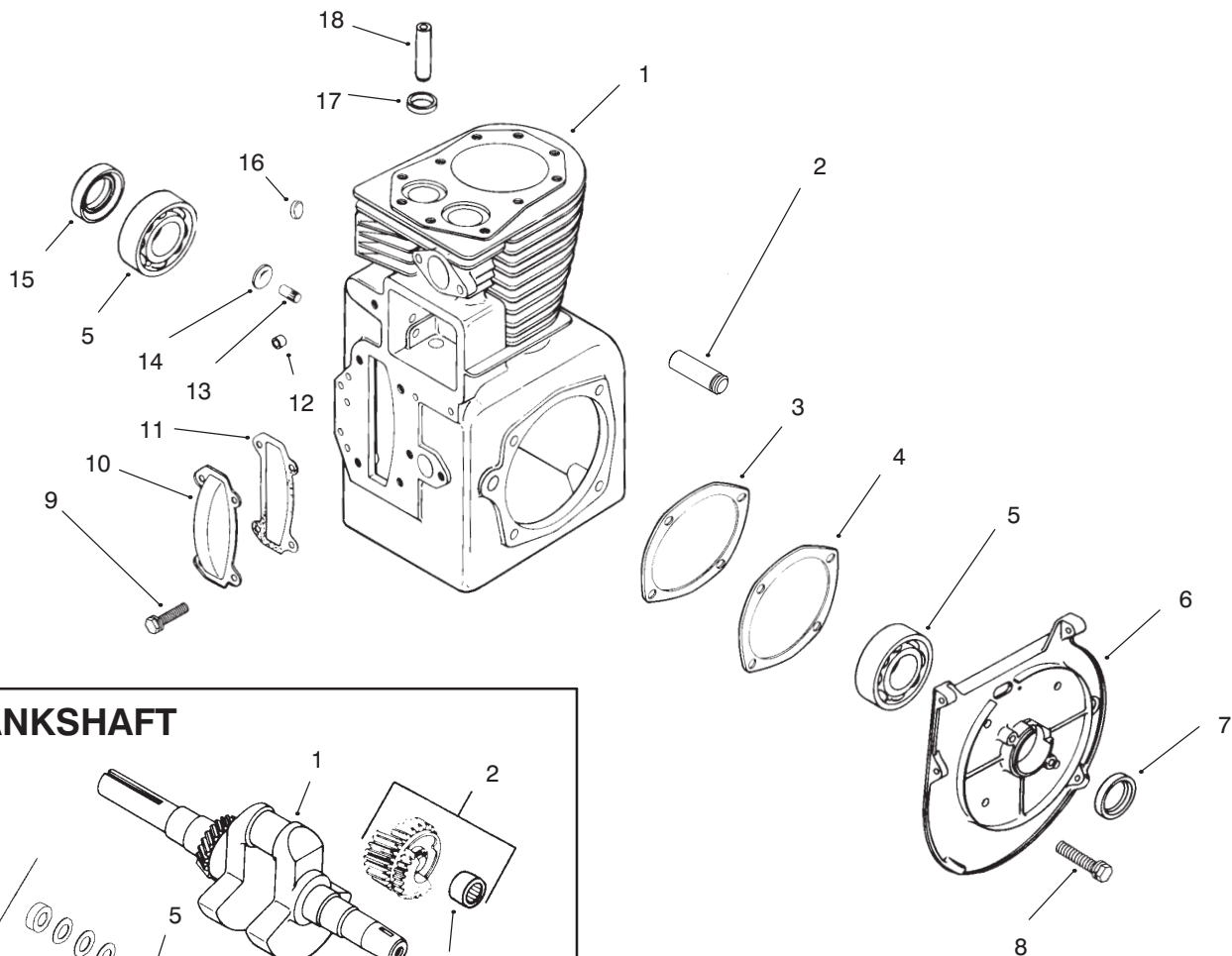
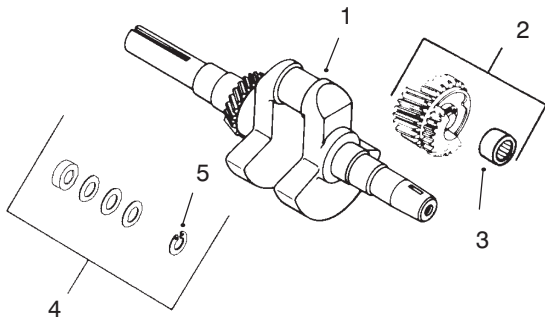
Note: Special tools may be ordered from: Owatonna Tool Company
2013 4th St. NW
Owatonna, MN 55060

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**CARBURETOR****CRANKCASE****CRANKSHAFT**

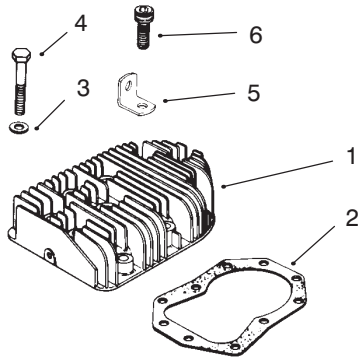
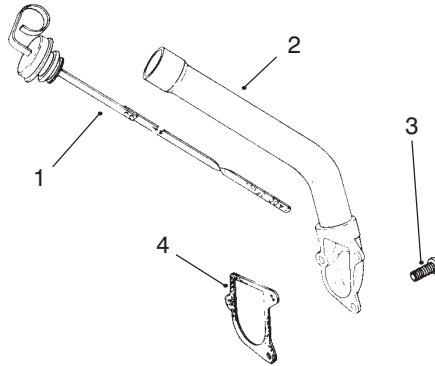
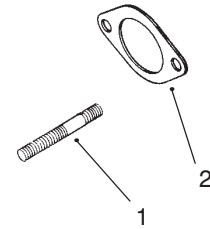
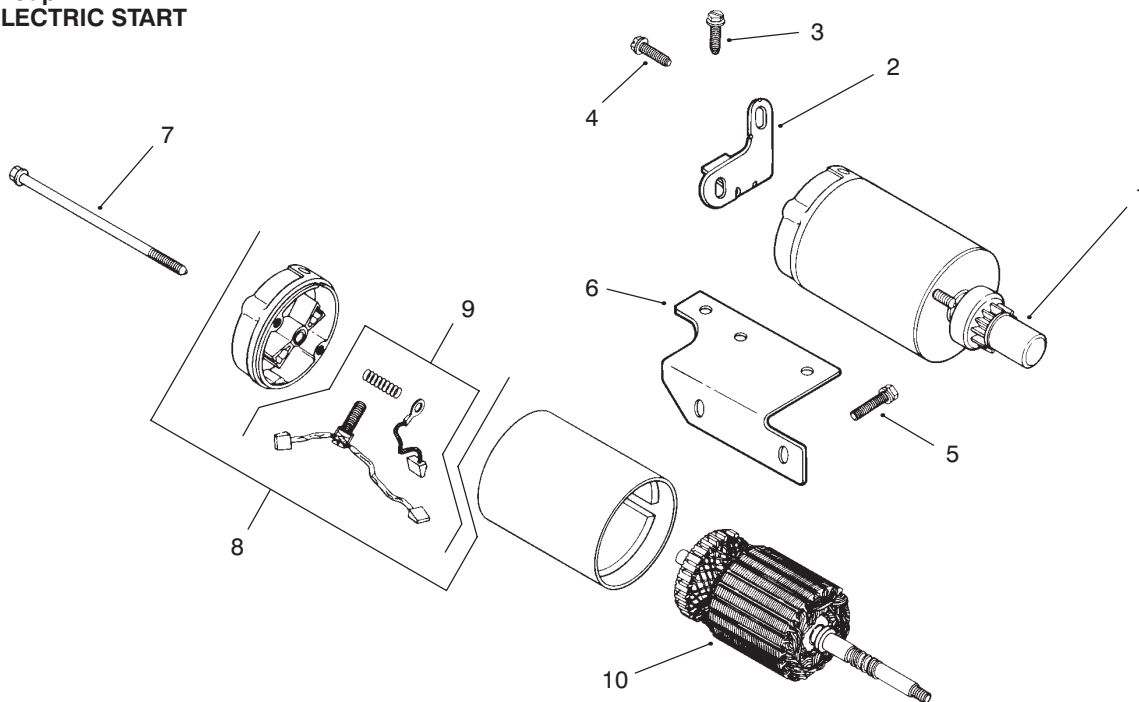
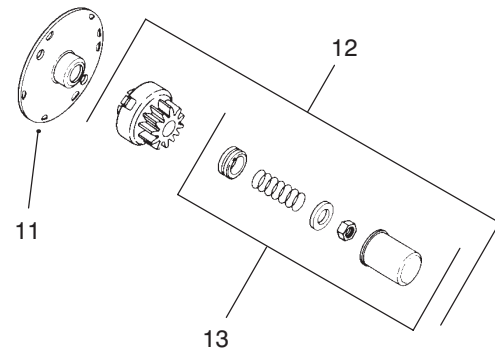
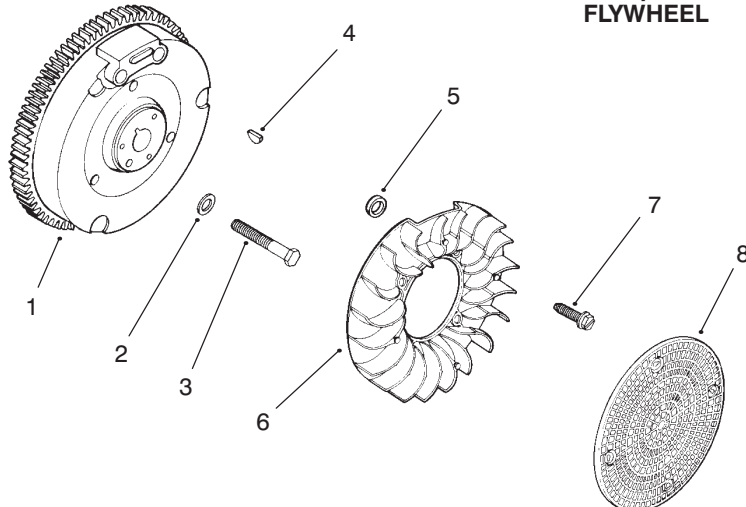
ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

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
25	4585313	Kit — Carburetor	1
4	275341	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**Group 9
CYLINDER HEAD****Group 10
DIPSTICK****Group 12
EXHAUST****Group 11
ELECTRIC START****Group 13
FLYWHEEL**

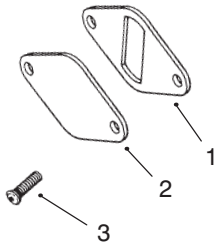
ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

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

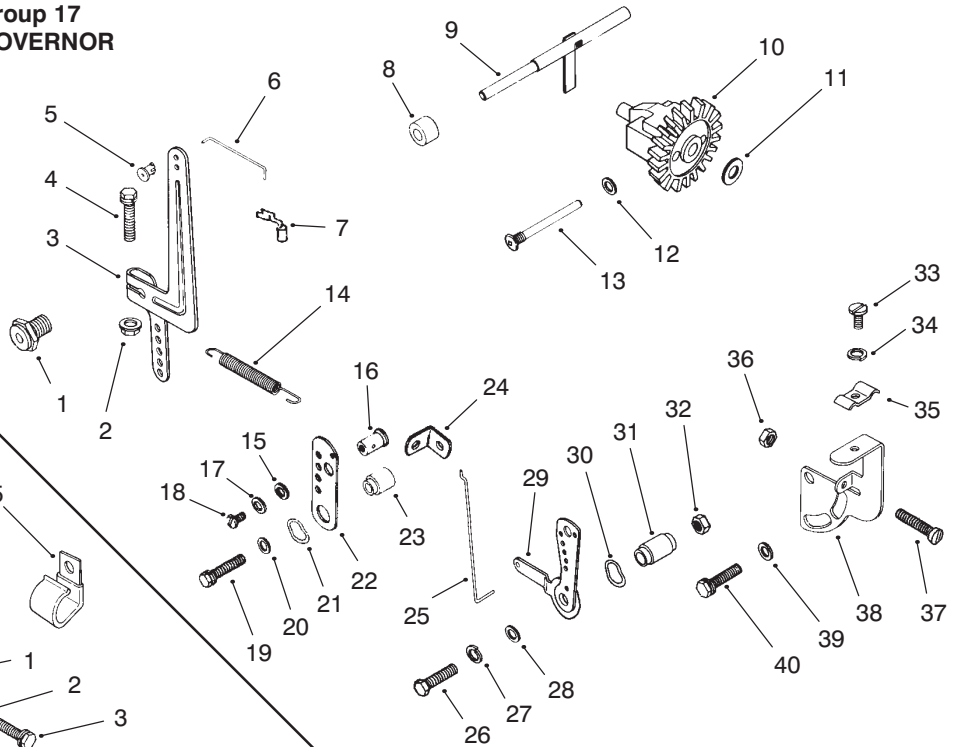
Ref. No.	Part No.	Description	No. Used
		Exhaust	
1	4107219	Stud	2
2	4504115	Gasket — Exhaust	1
		Flywheel	
1	4702553	Flywheel	1
2	5246815	Washer — Plain	1
3	2508624	Screw — Hex Mach.	1
4	X-46-3	Key — Woodruff	1
5	2511204	Spacer	4
6	2515701	Fan	1
7	2508621	Screw — Hex Wash. Hd.	4
8	2516201	Screen — Grass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

ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

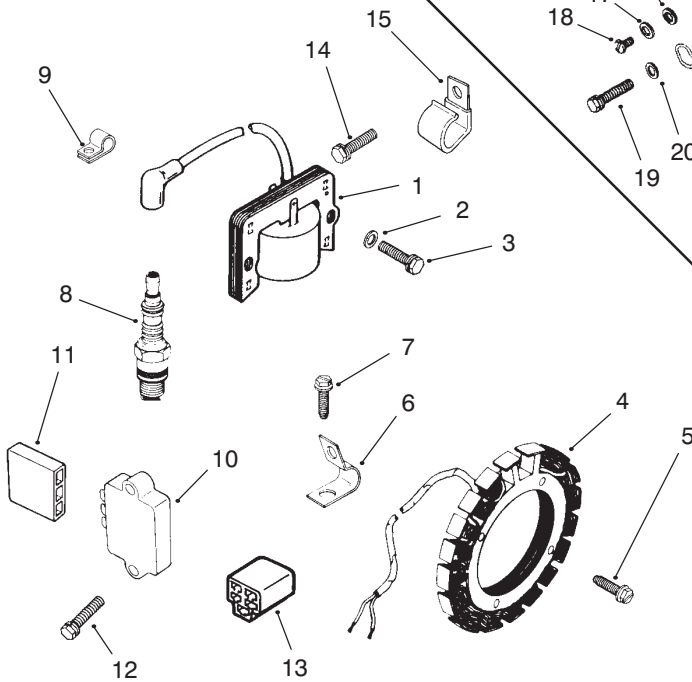
Group 14 FUEL PUMP



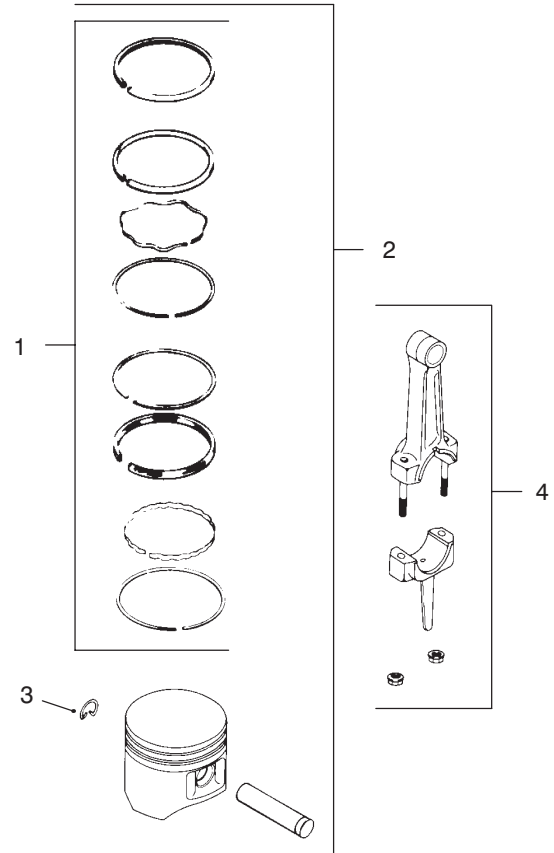
Group 17 GOVERNOR



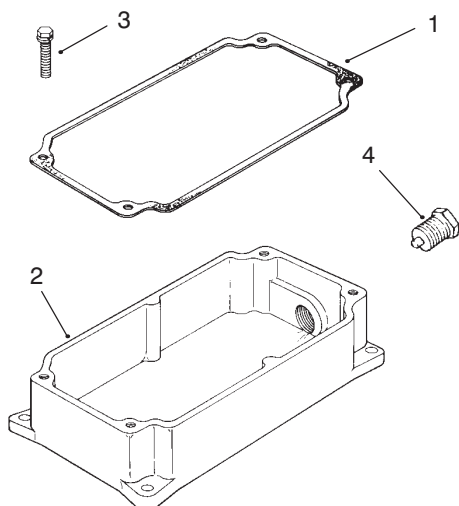
Group 18 IGNITION



Group 22 PISTON & ROD



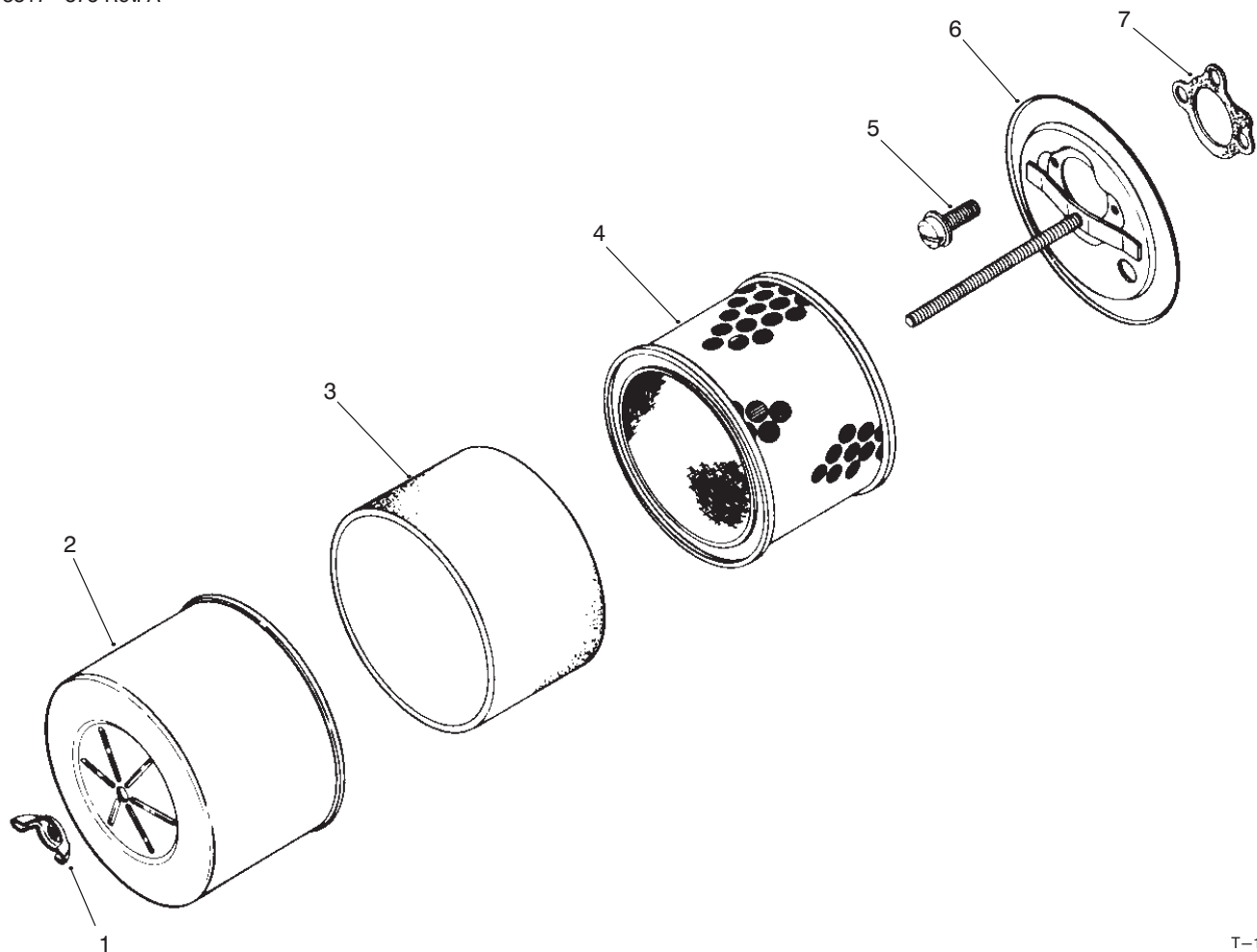
Group 21 OIL PAN



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
1	X-276-7	Air Intake 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

3318—375 Rev. A

Part No.	Description	Pg. Ref. No. Qty.	Part No.	Description	Pg. Ref. No. Qty.
3-0348	Bushing	5 27 6	27-3040	Hose — Pump	12 46 2
3-0348	Bushing	1 31 10	27-3040	Hose — Pump/Inlet	23 10 2
3-0348	Bushing	7 35 6	27-3070	Wire — Battery to Engine	21 44 1
3-1506	Bushing	2 60 12	27-6600	Spacer — Rubber	21 28 4
3-4808	Nut — Wing	25 1 1	27-7980	Front Reservoir Strap Assy.	12 30 1
3-6657	Clip — Skid	25 4 2	28-1400	Battery	20 65 1
3-6685	Spring	19 47 1	28-2120	Wire — Battery to Ground	21 43 1
3-8516	Anchor — Cable	19 22 1	28-3680	Tire	5 2 2
5-0698	Key	19 18 1	28-3680	Tire	19 42 1
5-0946	Key — Square	22 1 1	28-4210	Solenoid	19 53 1
5-1226	Washer	7 28 A/R	28-8080	Boot Terminal	20 69 1
5-1226	Washer — Shim	3 89 2	29-9080	Handle	24 3 1
5-2653	Pulley Assembly	10 13 4	29-9090	Hose — Handle	24 4 1
5-3934	Bolt	19 34 1	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
11-0160	Roller Shaft Screw Assy.	2 70 6	49-5910	Arm Steering	10 10 1
12-3270	Screw — Cap, Hex. Hd.	23 35 3	49-5970	Bracket — Pulley	10 15 1
12-3270	Screw — Pentafllo	7 10 1	49-6110	Guard — Transfer Rod	3 88 1
12-3270	Screw — Thread Forming	10 32 1	49-6120	Pad — Footrest	1 15 1
12-7189	Engine	21 1 1	49-6200	Lever — Cutting Control	1 2 1
12-9140	Decal	24 1 1	49-6220	Bracket — Control Arm	7 17 1
18-1520	Fuel Filter	19 4 1	49-6250	Bracket — Traction Pivot	7 8 1
20-0070	Tube	25 5 1	49-6260	Tube — Traction Pivot	8 55 1
20-0080	Rod	25 7 1	49-6290	Shaft — Traction Pivot	7 9 1
20-0110	Bracket — Alignment	25 2 1	49-6320	Rod — Traction Control	7 7 1
21-8470	Shaft — Yoke Roller	2 61 3	49-6430	Pad — Pedal Reverse	7 6 1
22-6090	Washer — Thrust	24 4 1	49-6440	Pedal — Accelerator	7 2 1
23-0660	Key Switch	11 5 1	49-6470	Pad — Pedal Forward	7 3 1
23-8840	Puller — Bolt	24 3 1	51-0010	Decal — Traction	10 39 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	Sleeve — Protective	23 29 3
27-2420	Felt Strip	12 41 2	56-7981	Sleeve — Protective	23 3 3
27-2540	Spacer — Hub	7 30 1	57-6140	Clamp — Tube Side	5 17 4
27-2550	Pin — Hinge	7 31 1	57-6220	Link Connector	13 56 5
27-2830	Decal — Parking Brake	2 81 1	57-7650	Spring — Torsion	5 34 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
57-7650	Spring - Torsion	2 47 1	70-9840	Shoe & Lining Assembly	5 7 4
57-7650	Spring - Torsion	7 49 1	70-9850	Clip - Retainer	5 46 2
58-6530	Decal - Oil	12 32 1	70-9860	Shaft - Cam	5 49 2
59-9810	Module	11 13 1	70-9870	Plate - Backing, Brake	5 48 2
61-9390	Drum - Steering	19 25 1	70-9880	Spring	5 50 4
62-2110	Muffler Assembly	21 10 1	71-0990	Fitting - One Way Orifice	13 65 1
62-2130	Control - Choke	11 20 1	71-1500	Brake Assembly	5 * 2
62-2160	Pulley - Front Steering	10 8 1	71-1510	Arm - Brake R.H.	5 28 1
62-2170	Washer-Thrust	19 31 1	71-1510	Lever - Brake	1 29 1
62-2180	Steering Cable	10 9 1	71-3620	Decal - Engine	21 46 1
62-2190	Washer - Special	19 17 1	72-3850	Seal - Ring	12 50 1
62-2210	Tank Base	19 12 1	72-4320	Switch - Neutral	20 64 1
62-2220	Caster Fork	19 32 1	72-4790	Hold Down - Battery	20 71 1
62-2270	Exhaust Pipe	21 7 1	74-3570	Filter Element	12 49 1
62-2300	Traction Pump Assembly	21 17 1	74-3580	Gas Tank	19 1 1
62-2350	Wire Harness - Column	21 39 1	74-3730	Spacer	1 22 2
62-2420	Bar - Lift Arm (Center)	7 50 1	74-3730	Spacer	19 35 2
62-2440	Arm - Lift, R.H.	5 31 2	74-3810	Load Plate Assembly	14 9 1
62-2460	Lift Arm - L.H.	2 52 1	74-3830	Hose - Pressure, Rear	23 1 1
62-2470	Hose - Gas Line (Long)	19 2 1	75-9380	Decal - Caution	10 3 1
62-2570	Breather Cap	12 33 1	75-9440	Hub Assembly	19 40 1
62-2580	Spacer	5 * 2	75-9990	Motor - Hydraulic	5 44 2
62-2610	Screen Assembly	12 36 1	76-0800	Seal Kit	6 * 1
62-2630	Wire Assembly	21 45 1	76-0810	Housing Assembly	6 * 1
62-2660	Pad - Foot Step	1 26 1	76-0840	Manifold	6 22 1
62-2780	Spark Arrestor Muffler	21 * 1	76-0850	Bearing - Thrust	6 12 1
62-5070	Decal - Danger	5 47 1	76-0860	Shaft - Coupling	6 11 1
62-5070	Decal - Danger	7 51 1	76-0870	Plate - Wear	6 18 1
62-5070	Decal - Danger	2 63 1	76-0880	Commutator Assembly	6 * 1
62-5550	Decal - Toro	10 33 2	76-0940	End Cover Assembly	6 24 1
63-3810	Hose - Pressure R.H.	23 30 1	76-0960	Link - Drive	6 13 7
63-3820	Hose - Return R.H.	23 28 1	76-0970	Rotor Set	6 * 1
63-3830	Hose - Return L.H.	23 24 1	76-1010	Screw - Cap, Hex. Hd.	6 14 1
63-3840	Hose -Return, Rear	23 2 1	76-1720	Gasket - Filler Cap	13 67 1
63-3850	Hose - Cylinder - Drop L.H.	23 17 1	76-1850	Clevis	4 14 1
63-3870	Hose - Pressure L.H.	23 23 1	76-1860	Shaft with Clevis	4 7 1
63-3880	Hose - Cylinder, Lift R.H.	23 9 1	76-2660	Tube - Spacer	10 27 1
63-3890	Hose - Cylinder - Lift L.H.	23 18 1	77-0480	Screw - Accelerator Stop	8 60 1
63-3900	Hose - Pump #3	23 7 1	82-5570	Gasket - Exhaust	21 3 1
63-3910	Hose -Pump #2	23 13 1	83-0060	Lift Pivot	2 64 1
63-3920	Hose - Pump #1	23 14 1	83-0080	Spring - Lift Pivot	2 65 1
63-3930	Hose Cylinder - Drop, Rear	23 6 1	83-0140	Foot Pedal	3 85 1
63-3940	Hose - Pump #4	23 12 1	83-0160	Shaft - Brake	1 8 1
63-3950	Hose -Cylinder - Drop L.H.	23 22 1	83-0540	Rod - Accelerator	7 4 1
63-4020	Pressure Line	23 25 1	83-0820	Ammeter Assembly	11 4 1
63-4030	Pressure Line	23 27 1	83-1200	Tube - Traction Lower L.H.	23 15 1
63-4040	Return Line - R.H.	23 26 1	83-1700	Bushing - Flange	7 27 3
63-4050	Fitting Traction Upper	12 10 2	83-1890	Switch - Ball	16 54 1
63-4060	Brazed Tube Assembly	12 8 1	83-1890	Switch - Ball	18 60 1
63-4080	Manifold Drain Orifice	12 2 1	83-2460	Hose - Traction Lower R.H.	23 16 1
63-4090	90° Fitting - Extended	13 54 1	83-2590	Bolt - Shoulder	3 91 1
63-7400	Washer - Flat	21 37 4	83-7000	Hydraulic Cylinder Assy.	7 37 1
63-8360	Key	11 8 1	84-2000	Bracket - Brake	5 11 2
63-8750	Pin - Pivot	5 36 2	84-2203	Control Valve	13 57 1
63-8750	Pin - Pivot	2 48 1	84-2203	Control Valve Assembly	18 * 1
63-8750	Pin - Pivot	7 48 1	84-8290	Cylinder - Hydraulic	1 16 2
65-4860	Head	4 10 1	85-6540	Stud - Drive Type	5 6 8
65-5871	Tube	10 43 1	86-5360	Seal Repair Kit	9 * 1
65-5890	Cap	10 45 2	86-5390	Seal Repair Kit	4 * 1
66-2950	Hour Meter Assembly	11 2 1	86-9820	Pull Frame - Rear	8 57 1
68-5100	Rod - Seat	10 49 1	88-6900	Plate - Footrest	8 67 1
68-5310	Clip Seat	10 51 1	88-9630	Lift Pivot Bracket - R.H.	3 87 1
68-5880	Return Line - Man. to Filter	23 20 1	88-9640	Lift Pivot Bracket - L.H.	1 13 1
68-9910	Panel - Control	11 12 1	88-9660	Shaft - Cutting Control	1 11 1
68-9930	Control - Throttle	11 21 1	88-9670	Lift Arm - Center	7 40 1
68-9940	Decal - Control Panel	11 14 1	88-9680	Wire Harness - Traction	21 41 1
69-9760	Plate - Cover	3 90 1	88-9690	Wire Harness - Frame	21 40 1
70-2770	Head	9 10 1	92-0585	Pull Arm Assembly - R.H.	2 69 3
70-2780	Piston	9 5 1	92-0586	Pull Arm Assembly - L.H.	2 59 3
70-7130	Traction Line - Upper L.H.	23 19 1	92-1180	Seat Assembly	10 * 1
70-7150	Traction Hose - Lower L.H.	23 5 1	92-1192	Frame	7 19 1
70-8600	Traction Hose - Upper R.H.	23 4 1	92-1194	Plate - Traction	8 63 1
70-8610	Hose - Traction, Upper L.H.	23 33 1	92-1195	Decal - Service	10 53 1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
92-1199	Decal — Greensmaster 3000	2 78 1	237-58	O-Ring	12 3 A/R
92-1699	Cap — Battery (Flush)	20 78 1	237-65	O-Ring	5 14 4
92-1707	Cap — Battery (Poison)	20 74 1	237-65	O-Ring	13 66 4
92-2545	Seals — Spool	16 * 1	237-78	O-Ring	9 1 2
92-2545	Seals — Spool	18 * 1	237-78	O-Ring	1 17 4
92-2546	Wiper — Seal	15 25 4	237-79	O-Ring	12 6 8
92-2546	Wiper — Seal	18 64 5	237-79	O-Ring	21 20 1
92-2547	Plate — Seal Retainer	17 18 6	237-80	O-Ring	5 12 4
92-2547	Plate — Seal Retainer	15 24 4	237-80	O-Ring	12 13 2
92-2548	Seal — Spool (Single End Set)	18 * 1	237-81	O-Ring	12 1 1
92-2548	Seal — Spool Single	16 * 1	237-100	Grommet	11 19 1
92-2549	Seals — End Set #4 Only	18 * 1	237-101	O-Ring	12 24 1
92-3048	Spring — Centering	15 41 1	237-136	Grommet	19 11 4
92-3148	Spring	17 23 1	237-148	Seal — Quad Ring	19 30 1
92-6533	Kit — Cushion	10 24 1	237-149	O-Ring — Seal	19 26 1
92-6534	Shell	10 25 1	242-50	Nut — Wheel	5 1 8
92-8795	Body Assembly	14 10 1	242-50	Nut — Wheel	19 44 4
92-8796	Pin — Dowel	14 14 2	2410-18	Plug	24 2 1
92-8863	Repair Kit	14 * 1	2411-32	Ball Joint	8 62 2
92-9176	Pull Frame — L.H.	2 71 1	2412-3	Clamp — Hose	23 21 2
92-9177	Frame — Pull, R.H.	5 37 1	2412-3	Clamp — Hose	12 26 8
93-1386	Section #5 Assembly	18 * 1	2412-36	Clamp — Gas Line	20 77 2
93-2554	Bushing — Needle	12 17 1	2412-41	Clip	11 16 1
93-2555	Fitting — Hydraulic Valve	13 55 1	2412-41	R-Clamp	23 34 3
93-2556	Needle Valve Assembly	13 * 1	2412-76	Muffler Clamp Assembly	21 11 1
93-3651	Retainer — Boot	15 22 2	2412-102	R-Clamp	10 44 2
93-3651	Retainer — Boot	17 47 3	2412-108	Clamp — Hose	19 3 4
93-3652	Boot — Spool Assembly	16 * 2	251-141	Bearing — Ball	2 67 6
93-3652	Boot — Spool Assembly	18 * 3	253-111	Seal	19 36 2
93-7629	Foot Pad — Brake	1 4 1	254-78	Cone	19 37 2
93-7630	Foot Pad — Mow	1 6 1	254-79	Cup	19 38 2
93-7631	Foot Pad — Lift	1 9 1	256-2	Bushing	10 14 4
93-8075	Decal — Mow/Lift	1 10 1	256-2	Bushing	8 54 2
93-9346	Clamp — Hose, Pressure	23 39 6	256-113	Bushing	10 6 2
93-9347	Clamp — Hose, Return	23 40 6	256-155	Bushing	10 37 2
93-9934	Handle — Traction	7 21 1	256-219	Bushing	8 65 2
93-9936	Bracket — Return, Traction	5 54 1	256-251	Bushing	7 22 2
93-9937	Asm. — Cable, Traction	5 57 1	256-290	Bushing	7 25 2
93-9937	Asm. — Cable, Traction	8 69 1	281-1	Plug — Oil	12 45 1
94-2691	Screw — HWH	10 26 1	282-2	Yoke	2 33 4
94-2959	Ball Joint Receiver Assy.	2 56 6	282-2	Yoke	5 21 2
94-3506	Reel Motor	13 51 3	283-1	Pin — Clevis	2 34 4
94-3507	Cover Assembly	14 4 1	283-8	Pin — Clevis	1 27 2
94-3508	Drive Shaft Assembly	14 7 1	283-57	Pin — Clevis	7 18 1
94-3509	Idler Gear Assembly	14 6 1	283-62	Pin — Clevis	5 42 2
94-4248	Collar Spool	17 26 1	283-62	Pin — Clevis	8 70 1
94-5434	Spool #5	17 1 1	302-2	Fitting — Grease	4 1 2
94-5586	Bar — Lift Arm L.H.	2 46 1	302-5	Fitting — Grease	7 26 1
94-5588	Bar — Arm Lift, R.H.	5 35 1	302-5	Fitting — Grease	19 33 1
94-6960	Clamp — Ammeter	11 24 1	302-5	Fitting — Grease	2 58 8
217-60	Rim	5 3 2	302-11	Fitting — Grease	7 41 1
217-60	Rim	19 41 1	302-11	Fitting — Grease 45°	2 38
218-461	Nut — Hex	11 7 1	302-60	Fitting — Grease	1 20 4
218-461	Nut — Jam	20 57 2	302-60	Fitting — Grease	5 30 1
218-489	Fuse Holder	11 1 1	302-60	Fitting — Grease	7 39 1
231-124	Tire — Treaded	5 * 2	304-61	Clamp	13 60 1
232-24	Valve Stem — With Cap	19 43 1	321-3	Screw — Cap, Hex Hd.	12 44 2
232-24	Valve Stem w/Cap	5 52 2	321-3	Screw — Cap, Hex Hd.	20 70 2
232-37	Inner Tube — Heavy Duty	5 * 2	321-3	Screw — Cap, Hex. Hd.	11 11 1
233-48	Knob	7 20 1	321-3	Screw — Cap, Hex. Hd.	23 36 1
233-50	Knob	11 9 2	321-3	Screw — Cap, Hex. Hd.	10 52 1
237-7	O-Ring	20 58 1	321-5	Screw — Cap, Hex. Hd.	5 8 8
237-21	O-Ring	12 9 7	321-18	Screw — Cap, Hex Hd.	10 2 1
237-21	O-Ring	1 19 1	321-23	Screw — Cap, Hex Hd.	3 86 1
237-22	O-Ring	12 7 A/R	322-1	Screw — Cap, Hex Hd.	7 34 2
237-22	O-Ring	21 24 2	322-1	Screw — Cap, Hex. Hd.	1 25 6
237-30	O-Ring	12 5 A/R	322-1	Screw — Cap, Hex. Hd.	5 38 1
237-30	O-Ring	21 18 1	322-2	Screw — Cap, Hex Hd.	12 23 2
237-30	O-Ring	20 63 1	322-3	Screw — Cap, Hex Hd.	19 15 1
237-42	O-Ring	12 11 A/R	322-3	Screw — Cap, Hex. Hd.	10 46 2
237-42	O-Ring	21 22 3	322-4	Screw — Cap, Hex Hd.	12 22 2
237-54	O-Ring	17 3 6	322-4	Screw — Cap, Hex. Hd.	11 18 1
237-54	O-Ring	15 6 8	322-5	Screw — Cap, Hex Hd.	7 11 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
322-5	Screw - Cap, Hex Hd.	19 20 1	3256-23	Washer - Plain	5 39 1
322-6	Screw - Cap, Hex Hd.	21 30 4	3256-24	Washer - Flat	2 39 15
322-14	Screw - Cap, Hex Hd.	13 63 3	3256-24	Washer - Flat	7 44 2
323-6	Screw - Cap, Hex Hd.	19 14 2	3256-24	Washer - Flat	7 47 4
323-6	Screw - Cap, Hex Hd.	10 19 2	3256-26	Washer - Flat	10 16 4
323-8	Screw - Cap, Hex Hd.	21 16 2	3256-26	Washer - Flat	5 33 3
323-10	Screw - Cap, Hex Hd.	1 14 4	3256-26	Washer - Flat	2 43 1
323-15	Screw - Cap, Hex Hd.	21 34 1	3256-26	Washer - Flat	7 52 1
323-20	Screw - Cap, Hex Hd.	21 35 3	3257-42	Key - Woodruff	6 17 1
324-6	Screw - Cap, Hex Hd.	21 14 4	3257-42	Key - Woodruff	5 45 2
325-3	Screw - Cap, Hex Hd.	10 17 4	3272-4	Pin - Cotter	7 23 1
325-11	Screw - Cap, Hex Hd.	5 10 8	3272-6	Pin - Cotter	2 32 4
3211-1	Screw - Cap, Hex Hd.	7 42 2	3272-10	Pin - Cotter	5 43 2
3217-5	Nut - Hex	19 29 2	3272-10	Pin - Cotter	8 71 1
3217-6	Nut - Full	5 56 1	3272-11	Pin - Cotter	1 21 3
3217-6	Nut - Hex	21 9 2	3272-11	Pin - Cotter	5 32 2
3217-7	Nut - Hex	15 33 3	3272-11	Pin - Cotter	10 48 1
3217-16	Nut - Hex.	11 33 3	3272-11	Pin - Cotter	8 53 1
3217-25	Nut	11 29 2	3274-12	Screw - Hex Socket Hd.	10 21 4
3217-27	Nut	11 3 2	3274-15	Screw - Fillister Hd.	15 43 2
3218-2	Nut - Jam	19 23 2	3274-52	Screw - Hex, Socket Hd.	15 20 4
3218-13	Nut - Jam	19 54 2	3274-52	Screw - Hex, Socket Hd.	17 45 6
3219-2	Nut - Full	5 53 1	3274-54	Screw - Set, Socket Hd.	12 28 2
3219-2	Nut - Hex.	25 6 1	3274-70	Screw - Hex, Socket Hd.	15 1 2
3219-14	Nut - Hex	19 49 2	3274-84	Screw - Cap, Hex. Hd.	18 58 4
3219-18	Nut - Hex.	24 2 1	3284-3	Pin Groove	19 48 1
3220-2	Nut	5 20 1	3290-314	Tinnerman Push-On	10 41 2
3220-2	Nut - Hex	2 35 4	3290-317	Washer - Spring	2 68 6
3220-2	Nut - Hex. Jam	8 64 2	3290-379	Tie - Cable	23 8 6
3220-3	Nut - Hex, Jam	2 57 6	3296-4	Nut - Lock	19 19 2
3220-6	Nut - Jam	4 15 1	3296-4	Nut - Lock	8 61 2
3229-22	Bolt - Carriage	3 84 2	3296-16	Nut - Hex	2 72 3
3234-1	Screw - Flange, Hex. Hd.	7 12 4	3296-16	Nut - Lock	23 37 1
3234-1	Screw - Hex. Flange Hd.	1 5 4	3296-16	Nut - Lock	10 40 1
3234-4	Screw - Cap, Hex. Hd.	5 18 4	3296-16	Nut - Lock	10 50 1
3241-2	Screw - Set, Sq. Hd.	21 32 2	3296-16	Nut - Lock, Flange	5 41 3
3241-6	Screw - Set, Sq. Hd.	21 29 2	3296-16	Nut - Hex	12 40 4
3242-9	Screw - Set, Sq. Hd.	19 24 2	3296-23	Nut - Lock	5 25 8
3250-36	Screw - Phil. Hd.	19 13 4	3296-29	Nut - Lock	21 4 4
3253-3	Washer - Lock	12 42 2	3296-29	Nut - Lock	10 36 4
3253-3	Washer - Lock	18 57 4	3296-29	Nut - Lock	7 45 2
3253-3	Washer - Lock	2 73 2	3296-29	Nut - Lock	5 55 1
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	10 47 2	3296-39	Nut - Lock	21 33 4
3253-6	Washer - Lock	21 13 4	3296-39	Nut - Lock	2 44 1
3253-21	Washer - Lock	21 15 2	3296-42	Nut - Lock	5 9 8
3253-21	Washer - Lock	10 18 2	3296-59	Nut - Hex.	2 41 8
3253-21	Washer - Lock	2 40 8	3296-59	Nut - Lock	7 46 4
3253-23	Washer - Flat	11 17 1	3296-67	Nut - Lock	19 45 1
3254-1	Washer - Lock	19 50 2	32103-12	Nut - Wing	20 73 2
3254-2	Washer - Lock, Int. Tooth	13 64 1	32104-76	Screw - Tapping, Acorn Hd.	10 4 15
3254-5	Washer - Lock	11 6 1	32105-8	Screw - Machine, Rd. Hd.	11 22 4
3254-6	Washer - Lock	7 43 2	32108-100	Screw - Mach. Phillips Hd.	5 15 3
3254-6	Washer - Lock	21 47 1	32120-8	Ring - Retaining Internal	4 11 1
3254-10	Washer - Lock, Ext. Tooth	11 31 2	32121-6	Pin - Roll	1 1 1
3255-7	Washer - Lock, Int. Tooth	11 30 1	32121-6	Pin - Roll	7 15 1
3255-8	Washer - Lock, Int. Tooth	25 9 1	32121-34	Pin - Roll	10 7 1
3255-20	Washer - Lock ETLW	11 28 2	32121-35	Pin - Roll	1 12 8
3255-24	Washer - Lock, Int. Tooth	11 32 3	32121-45	Pin - Roll	1 3 3
3256-4	Washer - Flat	10 12 4	32121-45	Pin - Roll	7 1 2
3256-22	Washer - Flat	12 29 2	32121-45	Pin - Roll	10 35 1
3256-22	Washer - Flat	23 38 1	32122-35	Screw - Truss Head	25 8 1
3256-22	Washer - Flat	19 52 2	32128-20	Nut - Hex	12 18 3
3256-22	Washer - Flat	20 72 2	32128-20	Nut - Hex	8 59 1
3256-22	Washer - Flat	2 80 1	32128-20	Nut - Lock	11 10 1
3256-23	Washer - Flat	21 12 6	32128-20	Nut - Lock, Flange	25 3 1
3256-23	Washer - Flat	12 21 5	32141-111	Nut - Hex Hd. Flange	3 83 1
3256-23	Washer - Flat	10 22 6	32144-1	Screw - Thread Forming	21 38 8
3256-23	Washer - Flat	7 32 2	32144-14	Screw - Cap, Hex. Hd.	8 66 1
3256-23	Washer - Flat	20 75 1	32144-34	Screw	12 35 6
3256-23	Washer - Plain	1 24 6	32149-2	Nut - Lock	19 51 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
32149-2	Nut — Lock, Keys	11 15 1	353-733	Spacer — Bonnet	17 19 2
32149-7	Nut — Lock	11 23 1	353-737	Ball	18 63 1
32151-41	Ring — Retaining	14 13 1	353-754	Bonnet — R. Detent	15 42 1
32152-10	Nut	9 3 1	353-758	Seal — O—Ring	15 31 1
32152-10	Nut—Lock	4 3 1	353-760	Body Relief	15 30 1
3333-975	Cable Tie	23 31 1	353-762	Spud — Detent Out	15 50 1
340-6	Fitting — Straight	21 19 1	353-763	Cap — Adjustment	15 44 1
340-14	Fitting	5 13 4	353-766	Relief WH (2000) PSI Assy.	16 * 1
340-16	90° Fitting	12 4 1	353-768	Section #1 Complete	16 * 1
340-18	90° Elbow	12 12 1	353-772	Left End Cover	15 34 1
340-77	90° Elbow	13 52 3	353-780	Positioner — R. Detent (Out)	16 * 1
340-77	90° Fitting	21 21 1	353-808	Collar — Spring	17 24 1
340-87	45° Fitting	21 23 2	353-830	O—Ring	17 25 1
340-87	45° Fitting	13 58 2	353-831	Spring	17 21 1
340-92	Fitting — Orifice Str.	23 32 1	353-833	Positioner Assembly	18 * 1
340-92	Fitting — Straight	1 18 1	353-835	Seals — Section Set	16 * 1
340-98	90° Elbow	13 59 3	353-835	Seals — Section Set	18 * 1
340-101	45° Fitting	12 16 2	353-837	Section #2 Complete	16 * 1
340-103	45° Elbow Adjustable	23 11 1	353-839	Positioner — DI (SPL) Assy.	16 * 1
351-78	Edging	10 29 2	353-840	Position — DI (SP) Assy.	18 * 1
353-301	Poppet	15 27 1	353-841	Position — Spool Assembly	18 * 1
353-302	O—Ring	17 7 3	353-844	Plug Series	18 55 1
353-302	O—Ring	15 10 3	353-845	Sleeve — Detent	17 41 1
353-303	Ring — Backup	17 8 6	353-846	Spud — DI (SPL)	17 40 1
353-303	Ring — Backup	15 9 6	353-847	Bonnet (SPL)	17 38 1
353-304	Spring	15 28 1	353-848	O—Ring	17 14 1
353-305	O—Ring	17 5 5	353-849	Sleeve	17 39 1
353-305	O—Ring	15 8 4	353-850	O—Ring	18 56 1
353-306	Ring — Backup	17 4 5	353-851	Body — Relief CP—RC Mod.	15 12 1
353-306	Ring — Backup	15 7 4	353-851	Body — Relief CP—RC Mod.	17 29 2
353-328	Washer — Shim	15 15 A/R	353-853	Bolt — Hex Hd.	17 10 3
353-328	Washer — Shim	17 32 A/R	353-855	Spring	15 18 2
353-329	Washer — Shim	15 16 A/R	353-855	Spring	17 44 1
353-329	Washer — Shim	17 33 A/R	353-884	Key — Woodruff	22 11 4
353-330	Washer — Shim	15 17 A/R	353-886	Ring — Retaining	22 12 2
353-330	Washer — Shim	17 34 A/R	353-916	Flange Assembly	22 3 1
353-331	O—Ring	15 29 1	353-917	O—Ring	22 4 1
353-334	Cap — Relief	15 19 2	353-918	Body Assembly	22 5 1
353-334	Cap — Relief	17 36 2	353-921	Plate Assembly	22 13 1
353-392	Seal — Relief Poppet PTFE	15 13 2	353-922	Seal Ring — Pump	22 14 8
353-392	Seal — Relief Poppet PTFE	17 30 2	353-923	Plate Assembly	22 16 2
353-398	Spring	17 35 1	353-927	Cover Assembly	22 17 1
353-417	Collar Spring	17 20 2	353-931	Seal — Oil	22 2 1
353-417	Collar Spring	15 40 2	353-952	Ring — Backup	15 32 1
353-481	Plug — Load Check	17 2 2	353-953	Plug Assembly	18 54 1
353-481	Plug — Load Check	15 5 3	353-957	Seal — Lip	17 15 6
353-483	Body — Anticavitation	18 61 1	353-957	Seal — Lip	15 26 4
353-484	Retainer — Ball	18 62 1	353-958	Ring — Backup	17 16 1
353-529	Plate Seal	17 22 1	353-961	Flange Adaptor	12 31 1
353-531	Poppet Assembly	17 31 2	353-962	Cap and Chain Assembly	12 34 1
353-531	Poppet Assy.	15 14 2	353-963	Gasket	12 37 2
353-550	Plug Assembly	17 13 1	353-964	Gear — 66B	22 8 2
353-563	Fitting — Straight	12 25 1	353-965	Idler Shaft Assembly	22 9 1
353-564	90° Fitting	13 53 1	353-966	Screw — Cap, Hex Hd.	22 18 4
353-575	Boot — Dust Cap	15 21 2	353-967	Gear — 33B	22 20 5
353-575	Boot — Dust Cap	17 46 3	353-968	Dowel	22 21 6
353-579	Spring	15 45 1	353-969	Gear Plate — 30B	22 15 3
353-599	Pin — Dowel	14 3 2	353-970	Dowel	22 6 2
353-600	Washer — Flat	22 19 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	15 49 1	354-46	Ring — Seal	14 8 1
353-729	Spud — Detent	15 3 1	354-50	Screw — Hex. Socket Hd.	14 1 4
353-730	Spring	17 42 1	354-51	Washer	14 2 4
353-731	Ball	17 43 1	354-122	Disc — Seal	18 52 1
353-732	Sleeve — Detent	16 52 1	354-129	Anticavitation Check Assy.	18 * 1
353-733	Spacer — Bonnet	15 4 1	354-131	Section #3 Assembly	18 * 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. 94—3506	14	Kohler Model MI6S—711533	26—34
Control Valve Assembly No. 84—2203		TORO Part Number Index	35—39
Section 1 and 2	15—16		