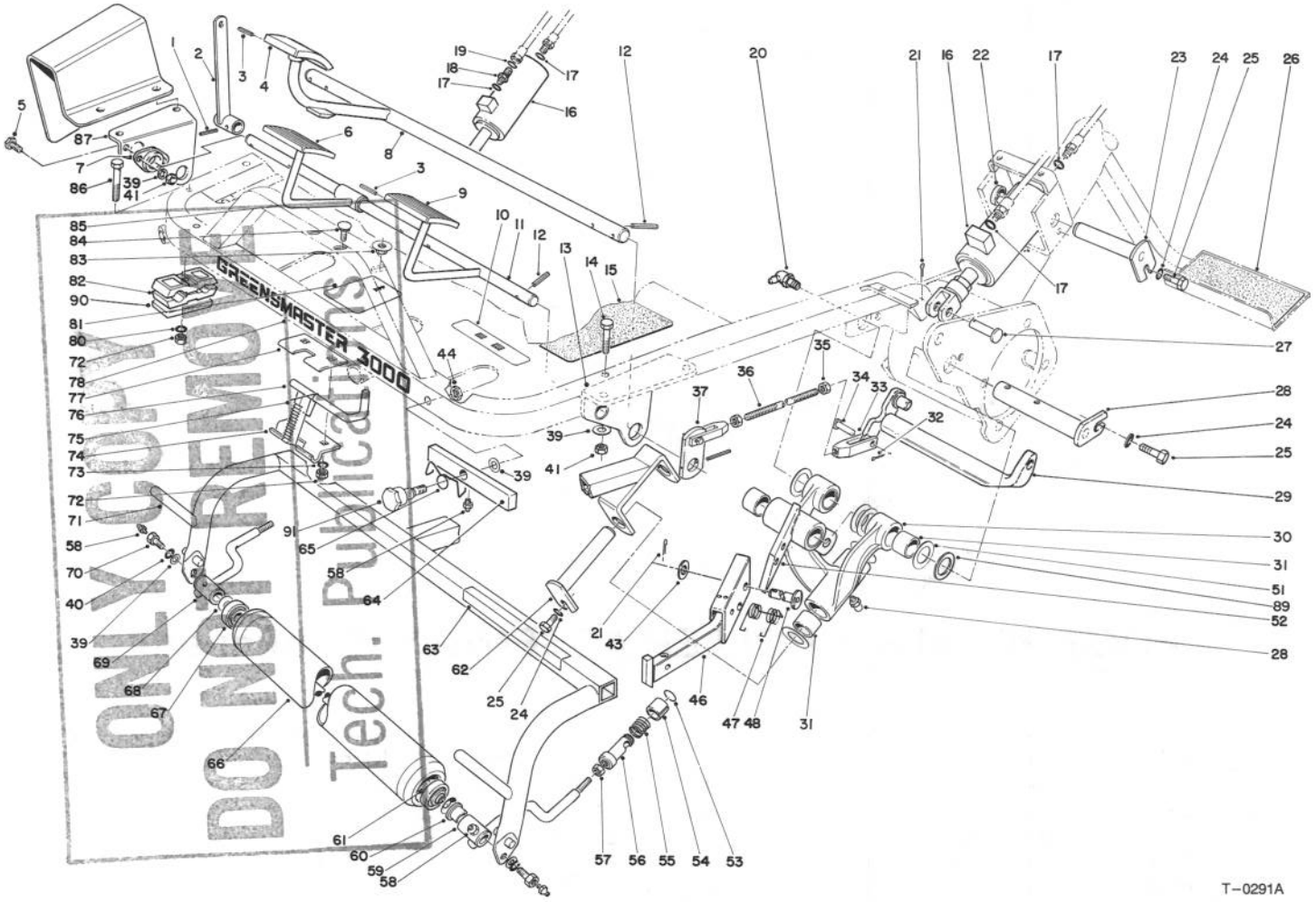
FORM NO. 3316–232 Rev. A

TORO®

MODEL NO. 04350 – 40001

PARTS CATALOG

GREENSMASTER® 3000
TRACTION UNIT



T–0291A

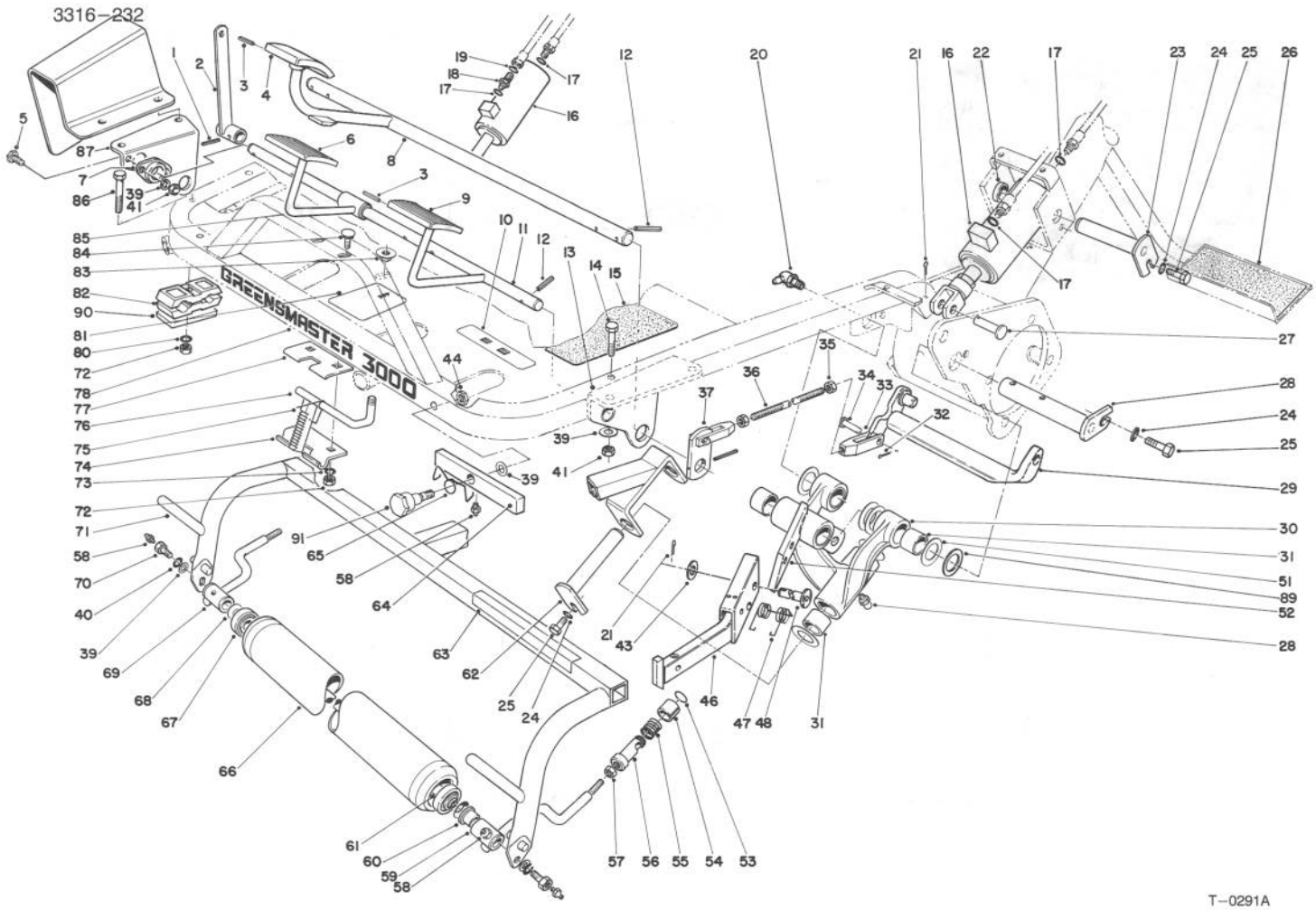
FOOT PEDALS & ROLLER ASSEMBLY

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

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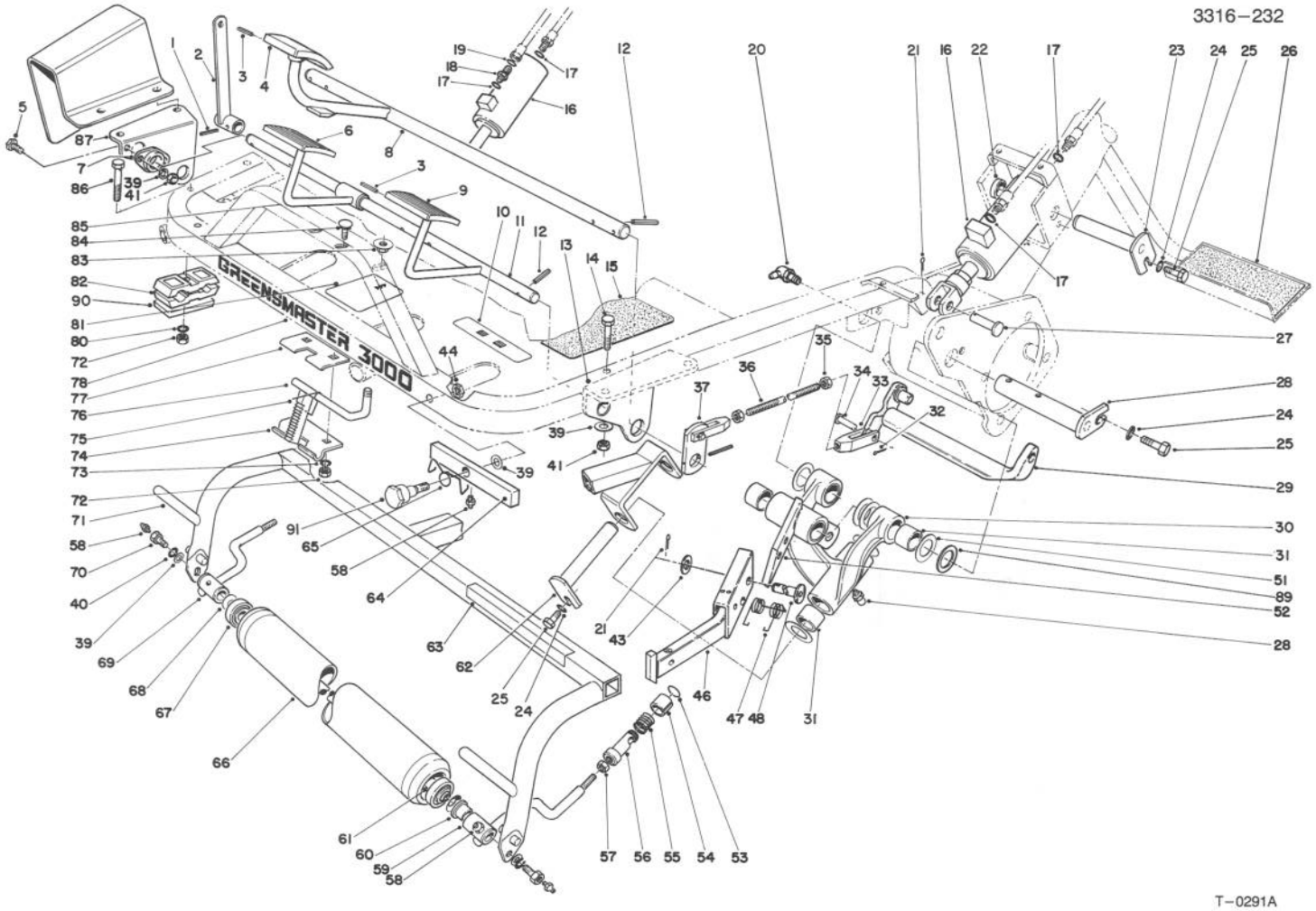
TPS



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

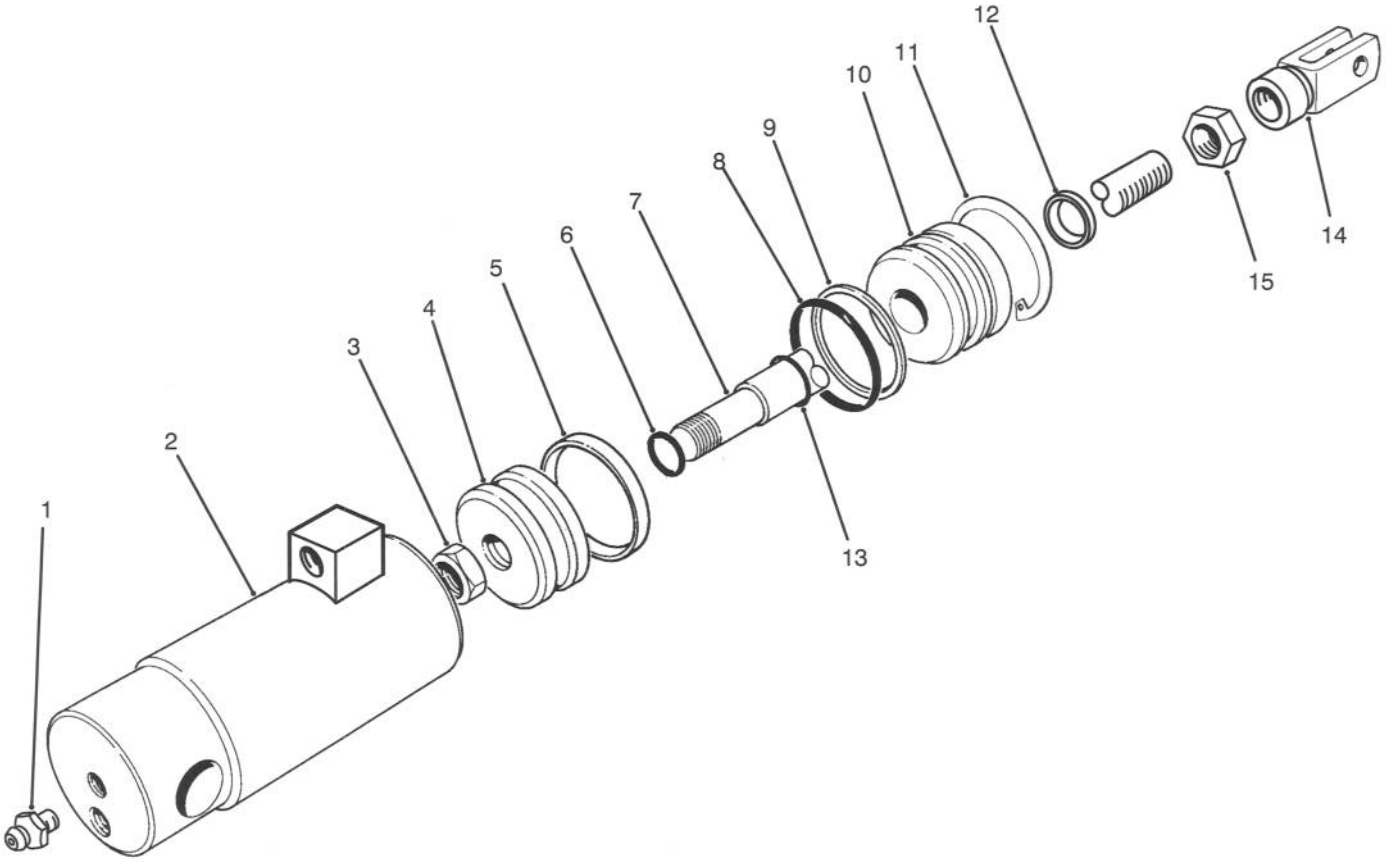


T–0291A

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



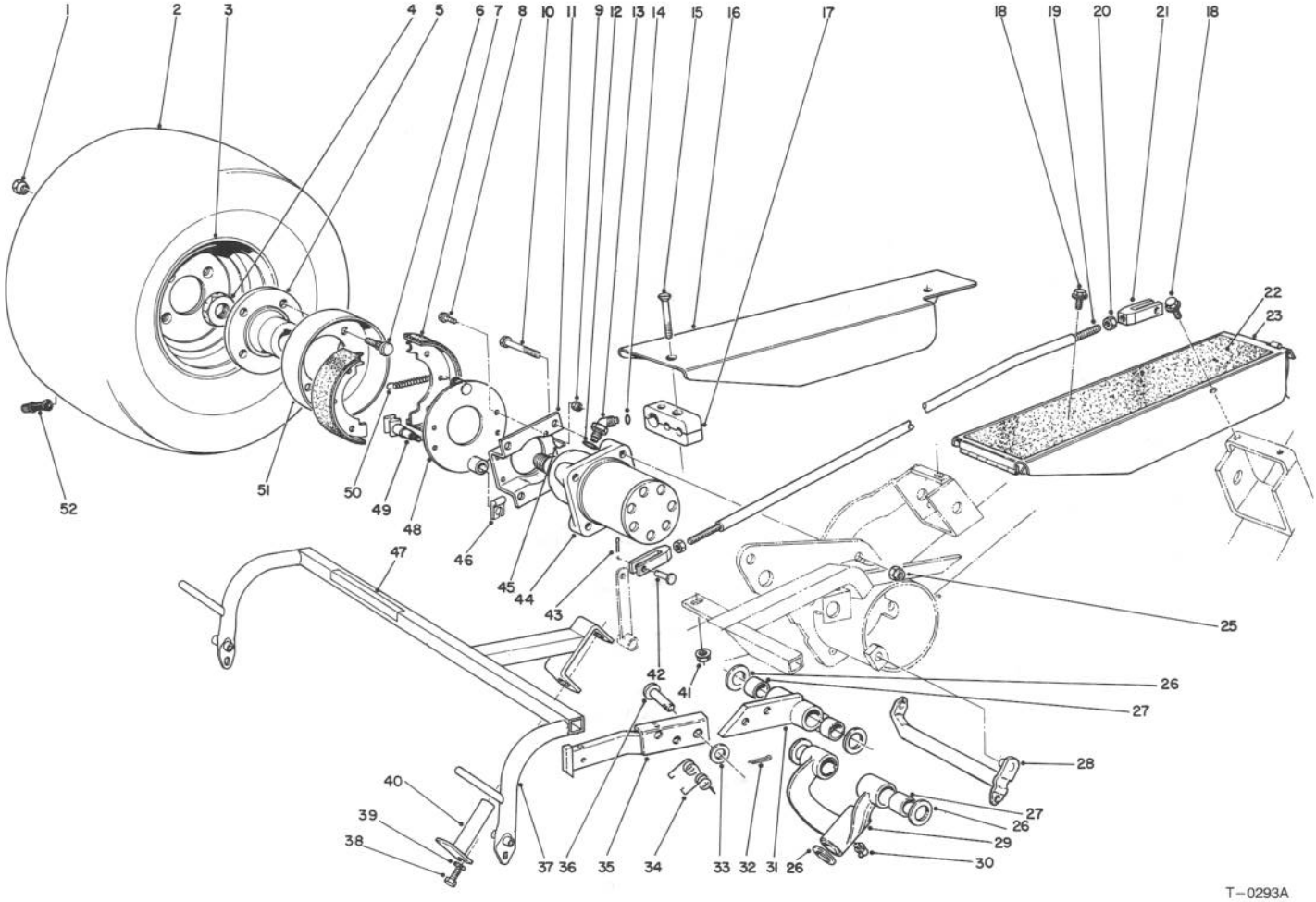
T–1373

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

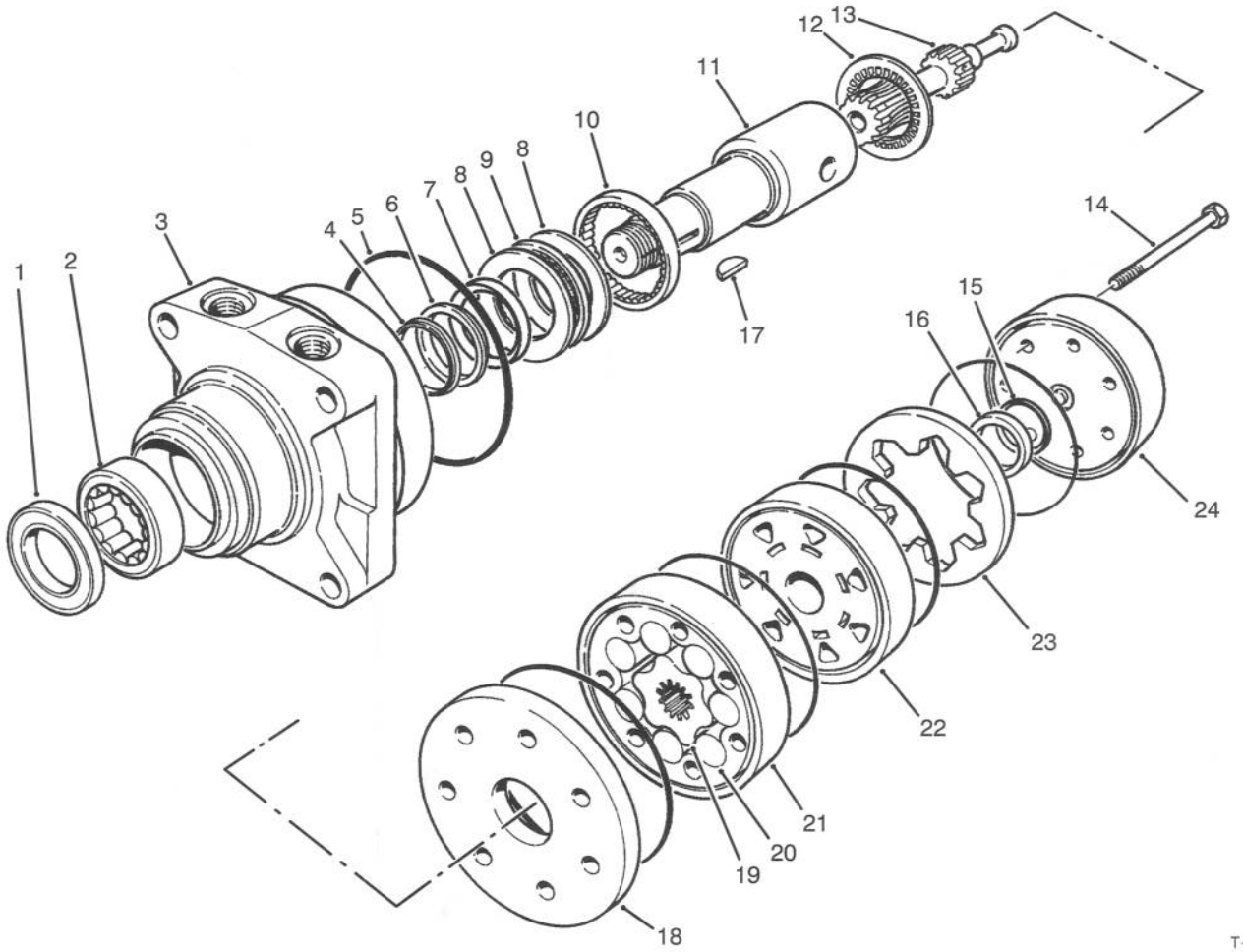
WHEEL AND BRAKE ASSEMBLY

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



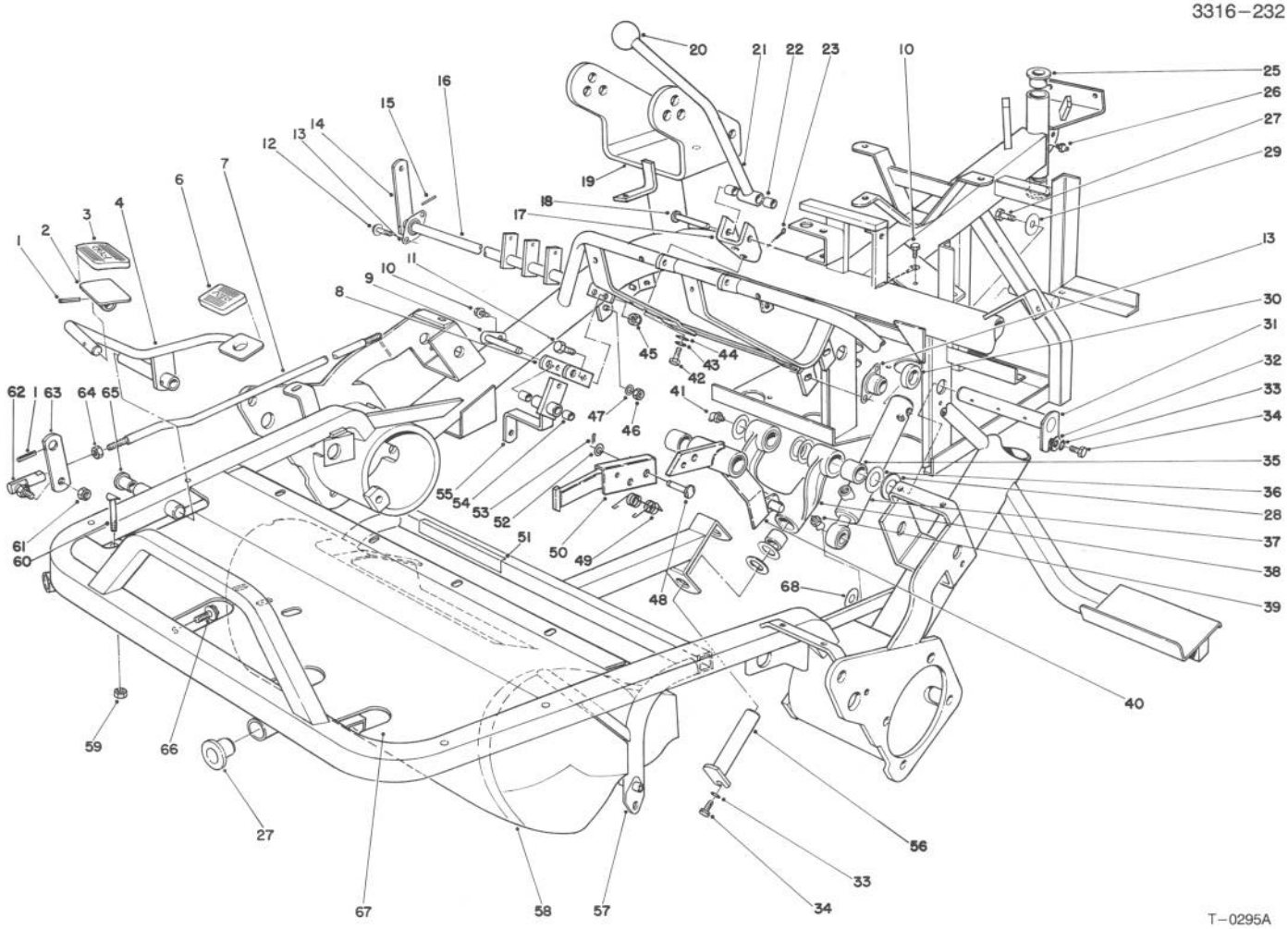
T–0987

HYDRAULIC DRIVE MOTOR NO. 75–9990

Ref. No.	Part No.	Description	No. Used
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

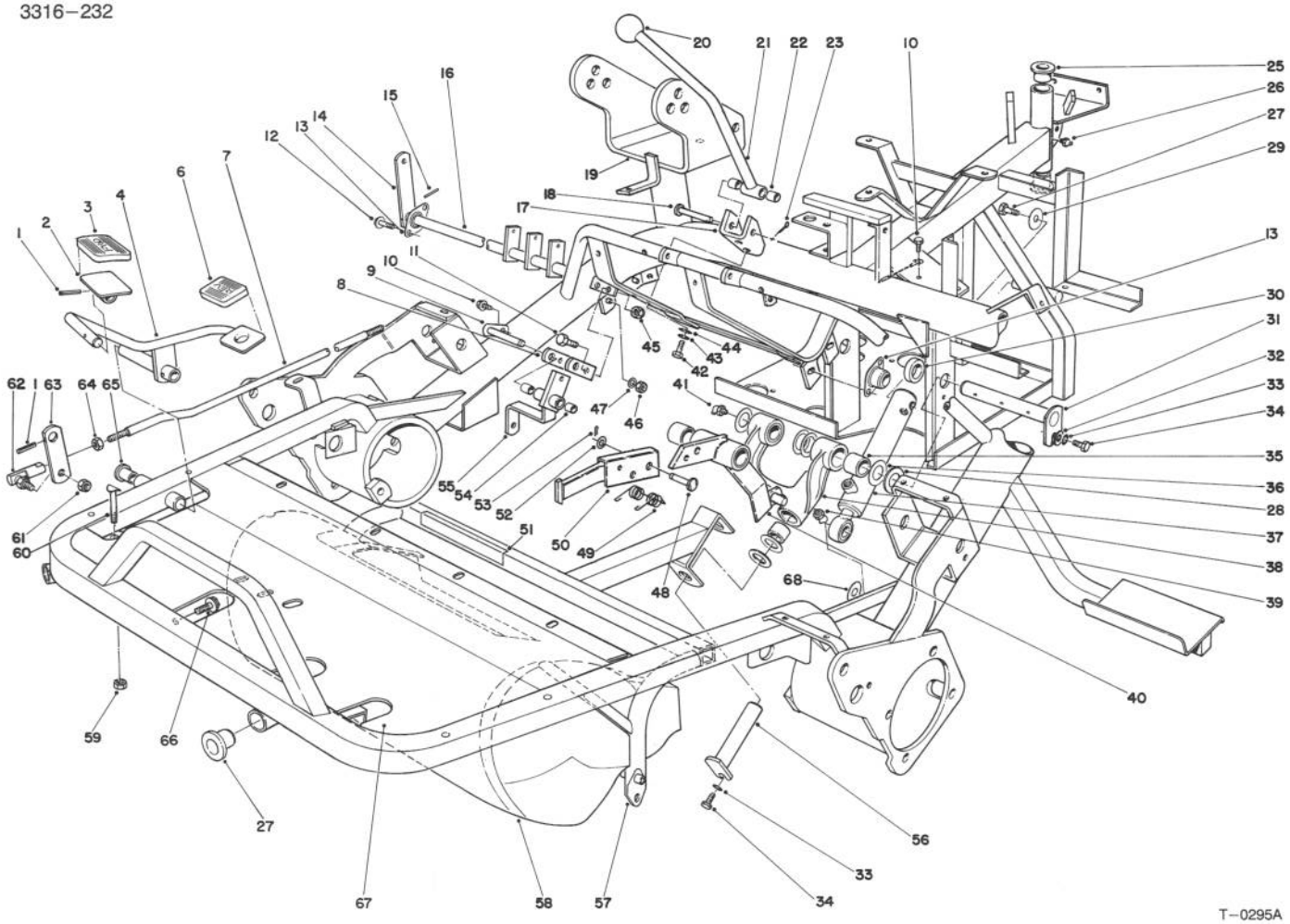
*Not Illustrated



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 – Pentaflo	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

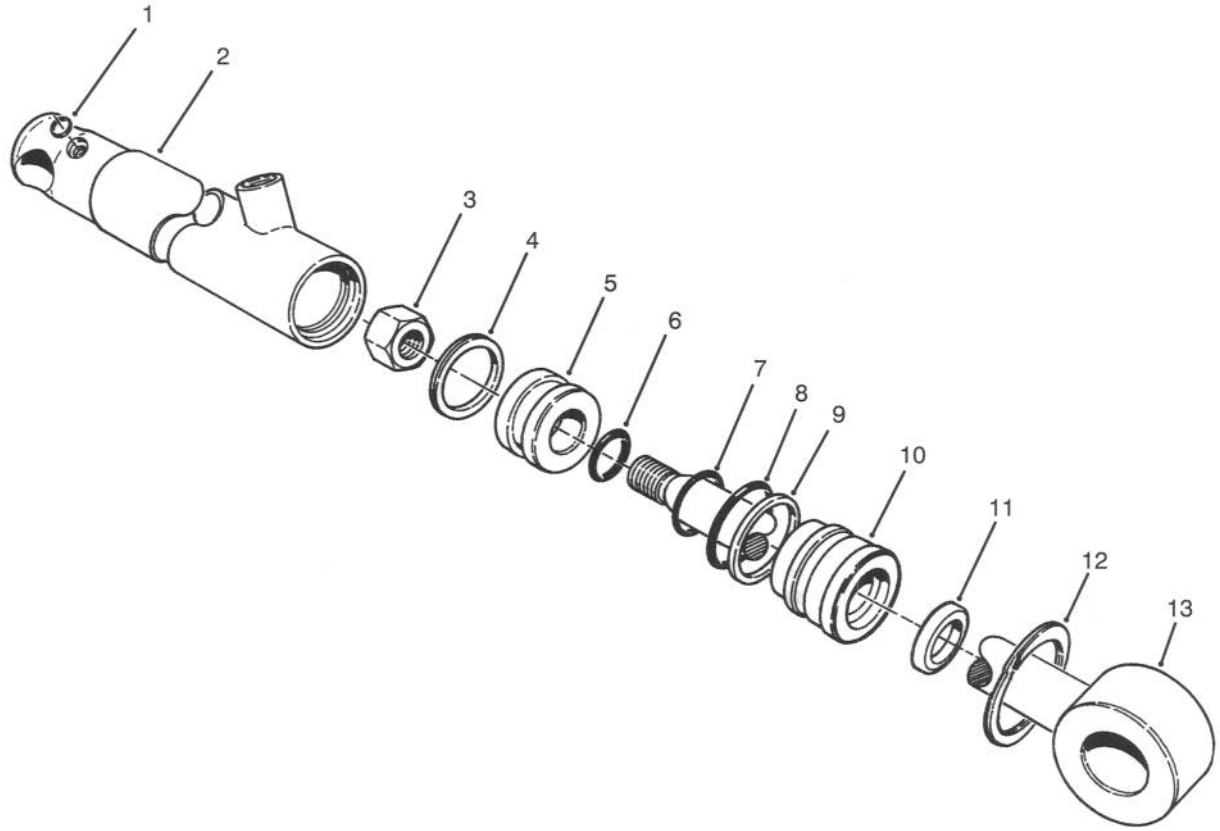
Ref. No.	Part No.	Description	No. Used
26	302–5	Fitting – Grease	1
27	83–1700	Bushing – Flange	3
28	5–1226	Washer	A/R
30	27–2540	Spacer – Hub	1
31	27–2550	Pin – Hinge	1
32	3256–23	Washer – Flat	1
33	3253–4	Washer – Lock	2
34	322–1	Screw – Cap, Hex Hd.	2
35	3–0348	Bushing	6
36	10–8110	Washer–Thrust	6
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



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



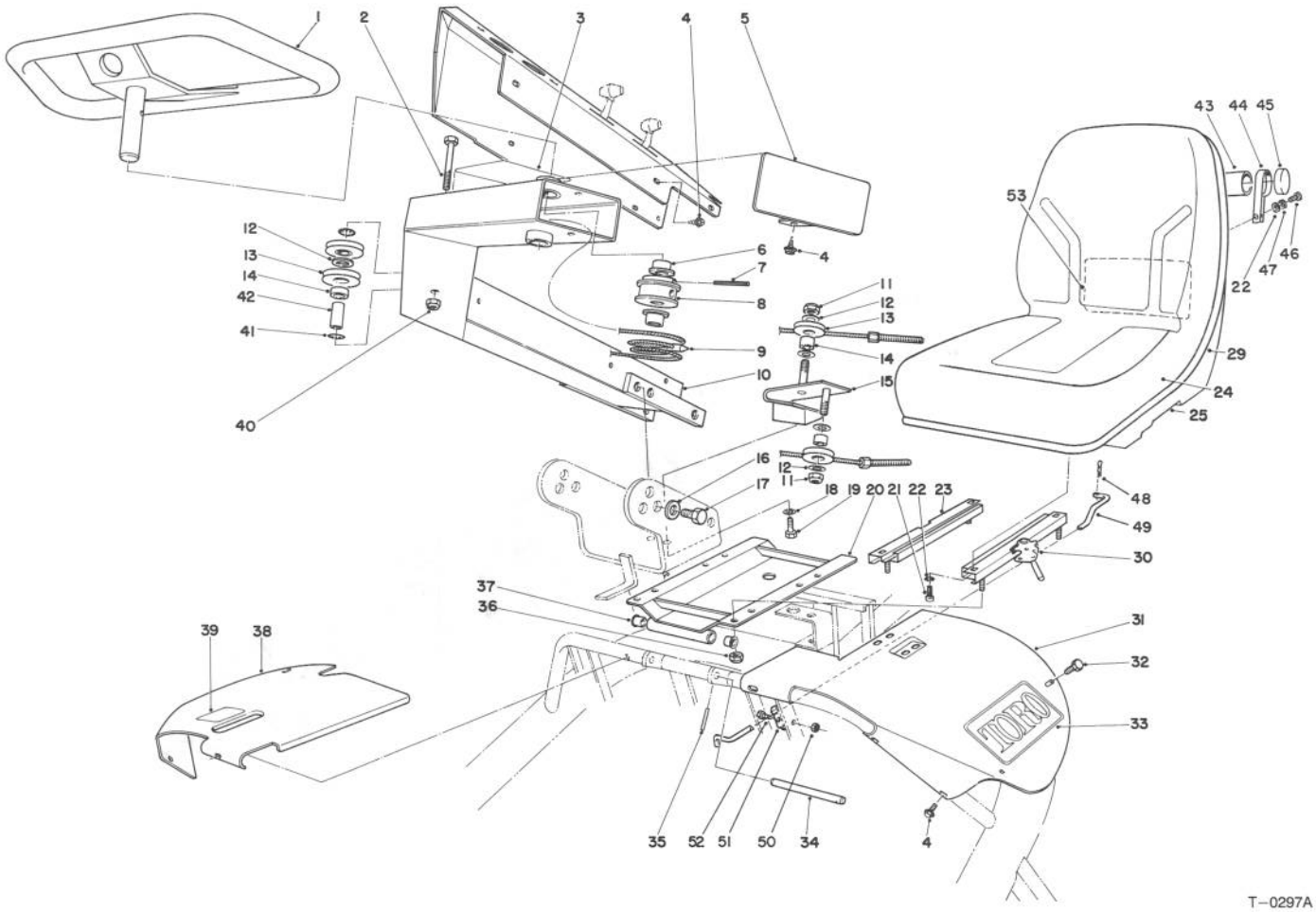
T–0217

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 Ultrathan	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

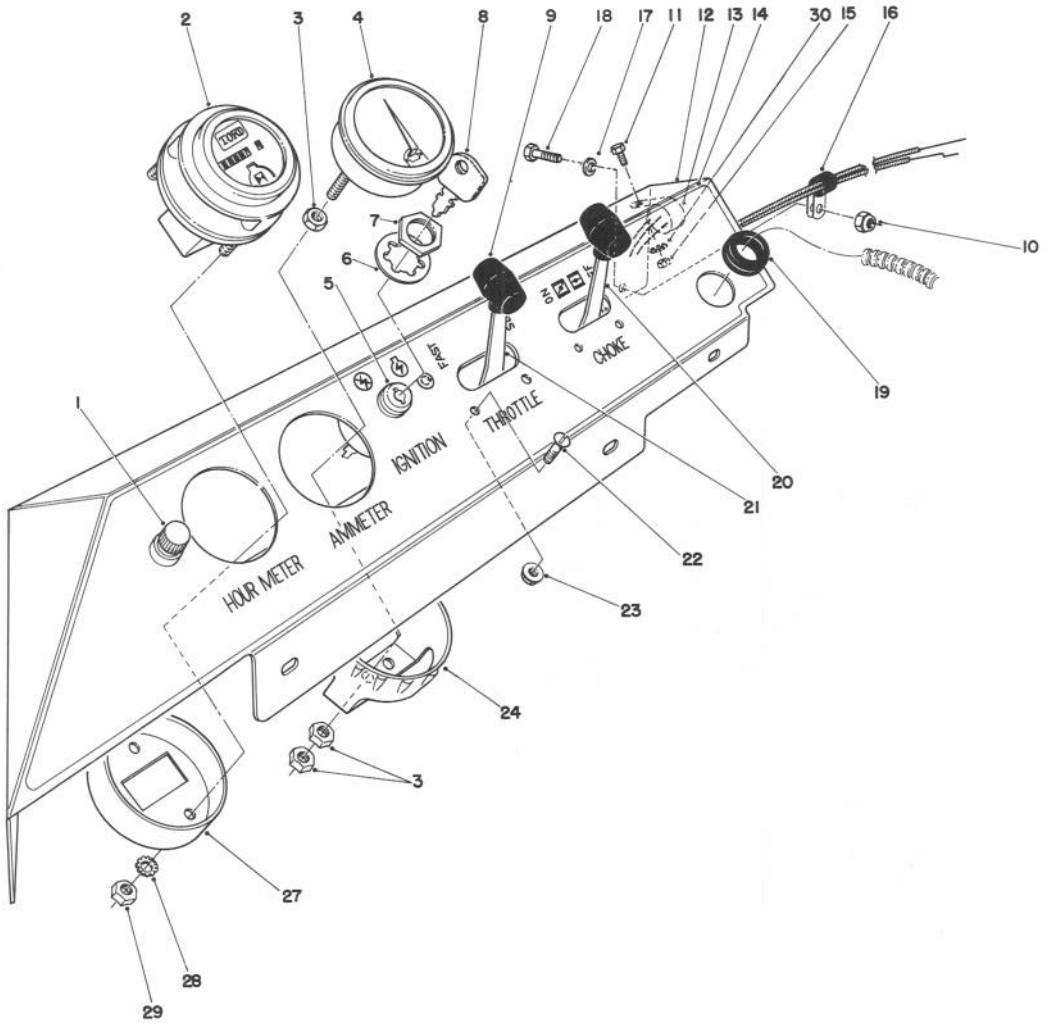


STEERING AND SEAT ASSEMBLY

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



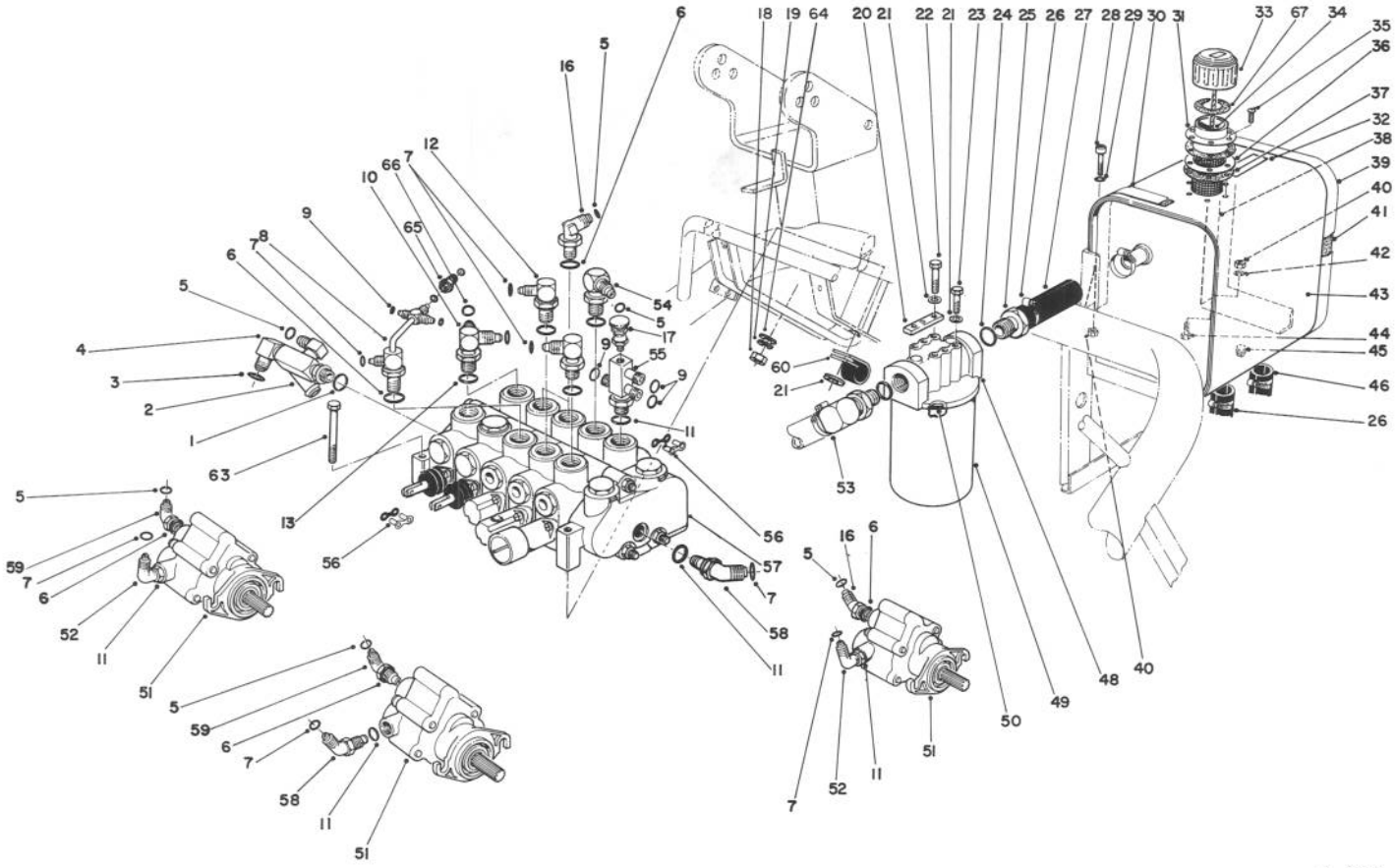
T–0298

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	218–489	Fuse Holder	1
*†		30 Amp Fuse	1
2	66–2950	Hour Meter Assembly (Incl. Ref. #27)	1
3	3219–14	Nut	6
4	83–0820	Ammeter Assembly (Incl. Ref. #24)	1
5	23–0660	Key Switch (Incl. Ref. #6–7)	1
6	3254–5	Washer – Lock	1
7	218–461	Nut – Hex	1
8	63–8360	Key	1
9	233–50	Knob	2
10	32128–20	Nut – Lock	1
11	321–3	Screw – Cap, Hex. Hd.	1
12	68–9910	Panel – Control	1
13	59–9810	Module	1
14	68–9940	Decal – Control Panel	1

Ref. No.	Part No.	Description	No. Used
15	32149–2	Nut – Lock, Keps	1
16	2412–41	Clip	1
17	3253–23	Washer – Flat	1
18	322–4	Screw – Cap, Hex. Hd.	1
19	237–100	Grommet	1
20	62–2130	Control – Choke (Incl. Ref. #9)	1
21	68–9930	Control – Throttle (Incl. Ref. #9)	1
22	32105–8	Screw – Machine, Rd. Hd.	4
23	32149–7	Nut – Lock	1
24		Clamp – Ammeter	1
25	3256–21	Washer – Flat	2
27		Clamp – Hour Meter	1
28	3255–20	Washer – Lock ETLW	2
29	3217–25	Nut	2
30	3255–7	Washer – Lock, Int. Tooth	1

*Not Illustrated
†Obtain Locally

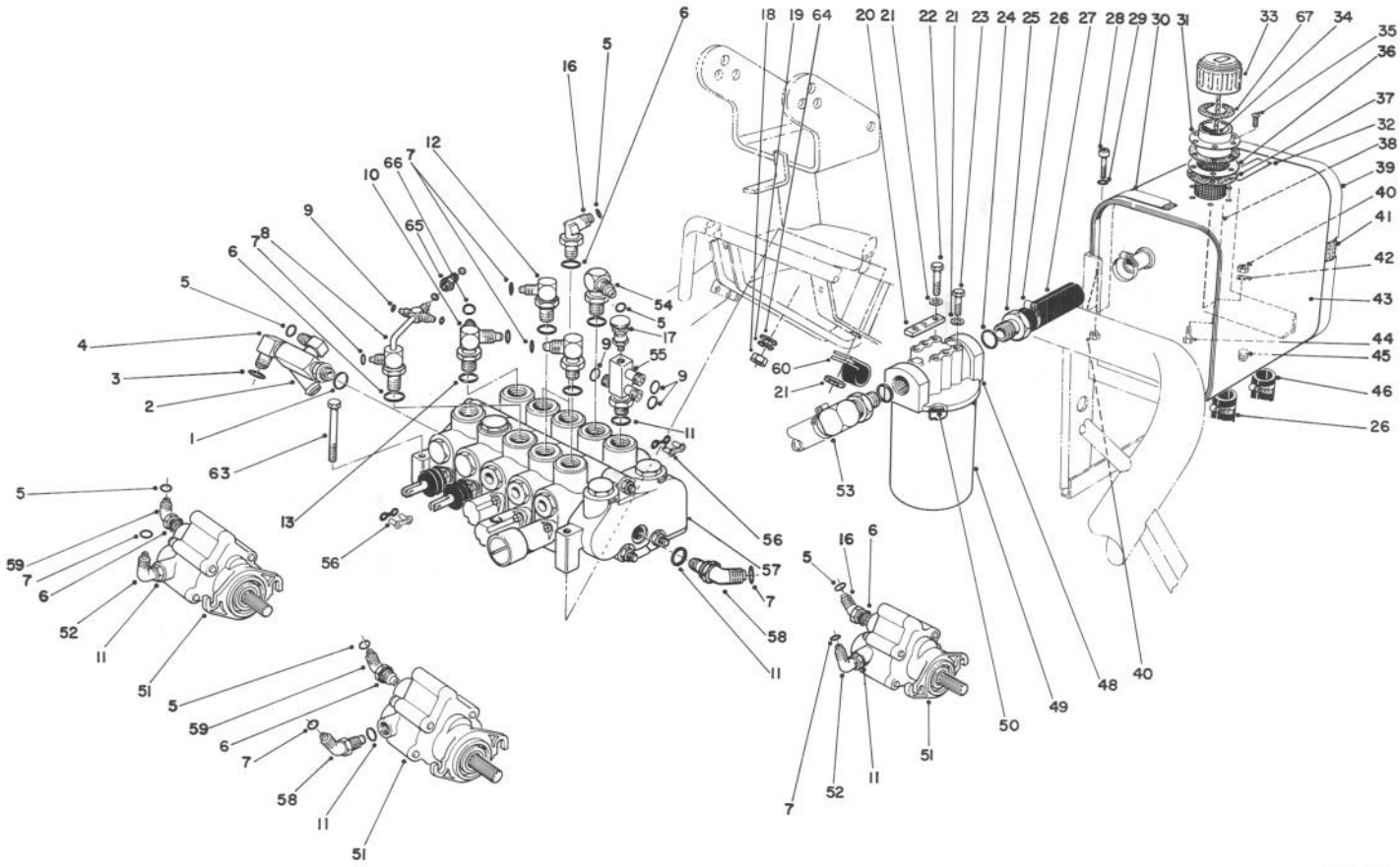


T–0299

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

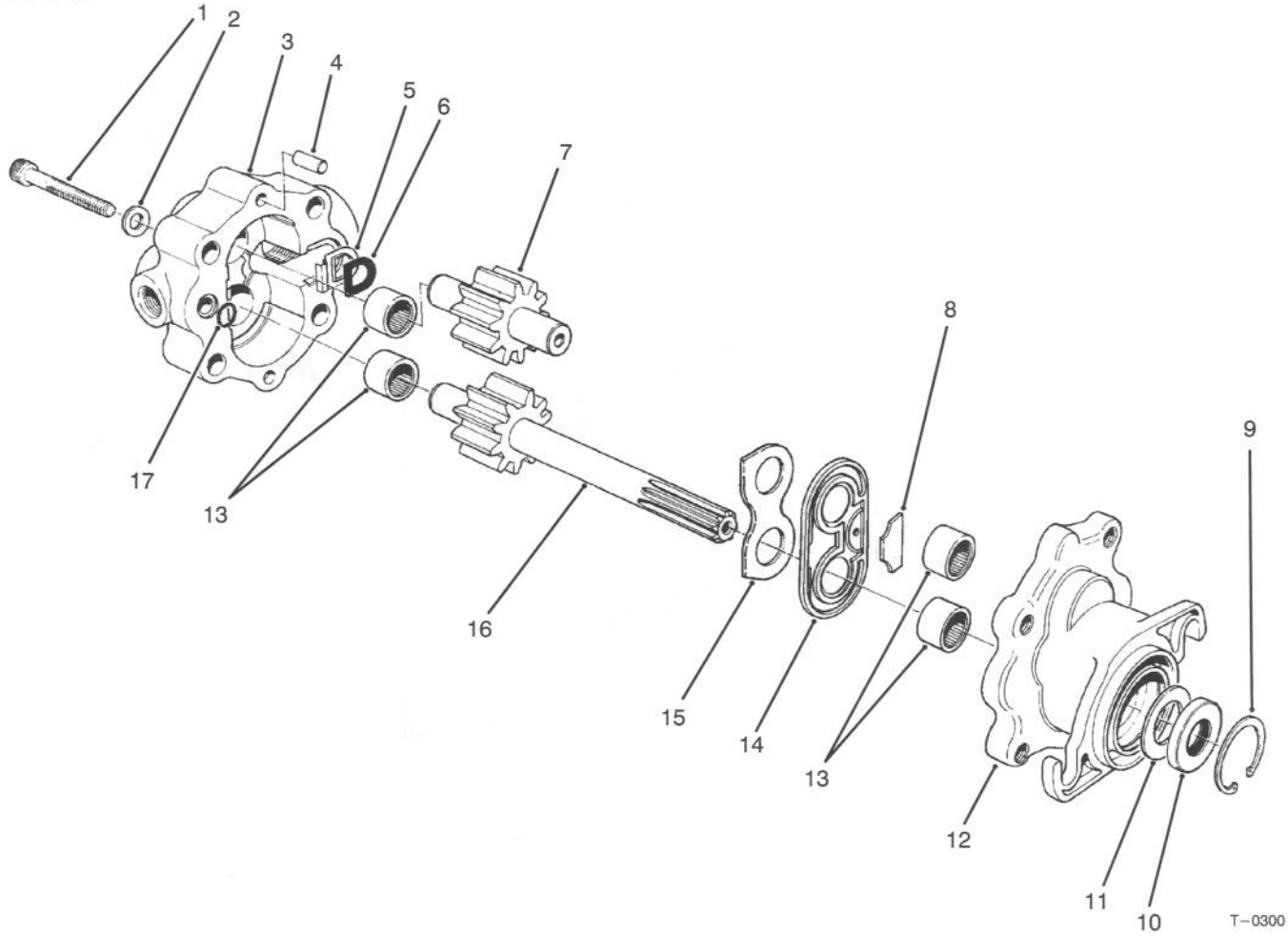
VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

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

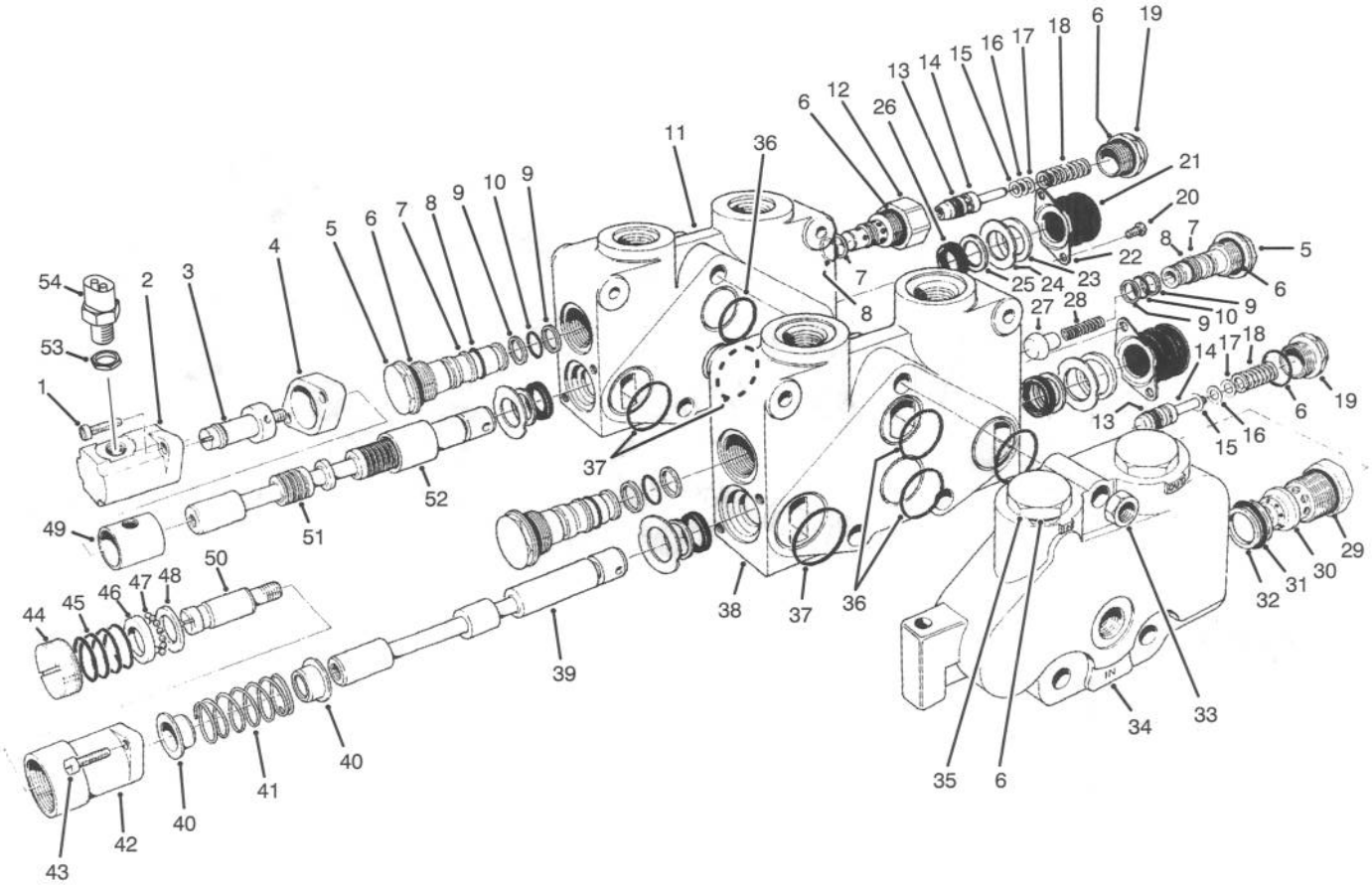
3316–232



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)	



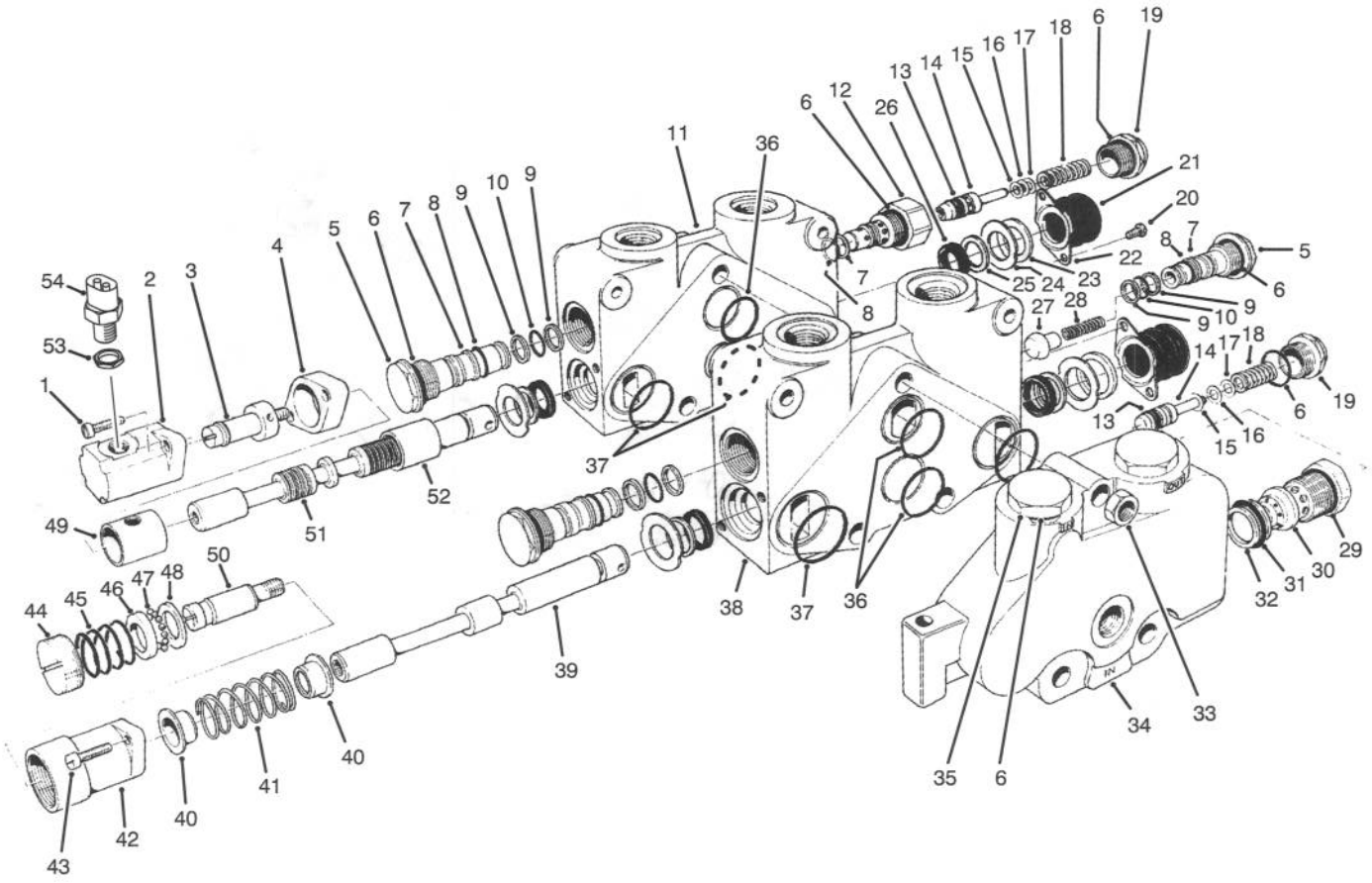
T–1318

CONTROL VALVE ASSY. NO. 84–2202 (Sections 1& 2)

Ref. No.	Part No.	Description	No. Used
1	3274–70	Screw – Hex, Socket Hd.	2
2	353–727	Bonnet	1
3	353–729	Spud – Detent	1
4	353–733	Spacer – Bonnet	1
5	353–481	Plug – Load Check (Incl. Ref. #6–10)	3
6	237–54	O–Ring	8
7	353–306	Ring – Backup	4
8	353–305	O–Ring	4
9	353–303	Ring – Backup	6
10	353–302	O–Ring	3
11		Housing V20T	1
12	353–851	Body – Relief CP–RC Mod.	1
13	353–392	Seal – Relief Poppet PTFE	2
14	353–531	Poppet Assy. (Incl. Ref. #13)	2
15	353–328	Washer – Shim	A/R
16	353–329	Washer – Shim	A/R
17	353–330	Washer – Shim	A/R
18	353–855	Spring	2
19	353–334	Cap – Relief	2
20	3274–52	Screw – Hex, Socket Hd.	4
21	353–575	Boot – Dust Cap	2
22	353–559	Retainer – Boot	2
23	353–560	Washer – Breather	2

Ref. No.	Part No.	Description	No. Used
24	92–2547	Plate – Seal Retainer	4
25	92–2546	Wiper – Seal	4
26	353–957	Seal – Lip	4
27	353–301	Poppet	1
28	353–304	Spring	1
29	353–331	O–Ring	1
30	353–760	Body Relief	1
31	353–758	Seal – O–Ring	1
32	353–952	Ring – Backup	1
33	3217–7	Nut – Hex	3
34	353–772	Left End Cover	1
35	353–721	Plug (Incl. Ref. #6)	2
†36		O–Ring	3
†37		O–Ring	4
†38		Housing Section #1	1
†39		Spool V20 SPL	1
40	353–417	Collar Spring	2
41	92–3048	Spring – Centering	1
42	353–754	Bonnet – R. Detent	1
43	3274–15	Screw – Fillister Hd.	2
44	353–763	Cap – Adjustment	1
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



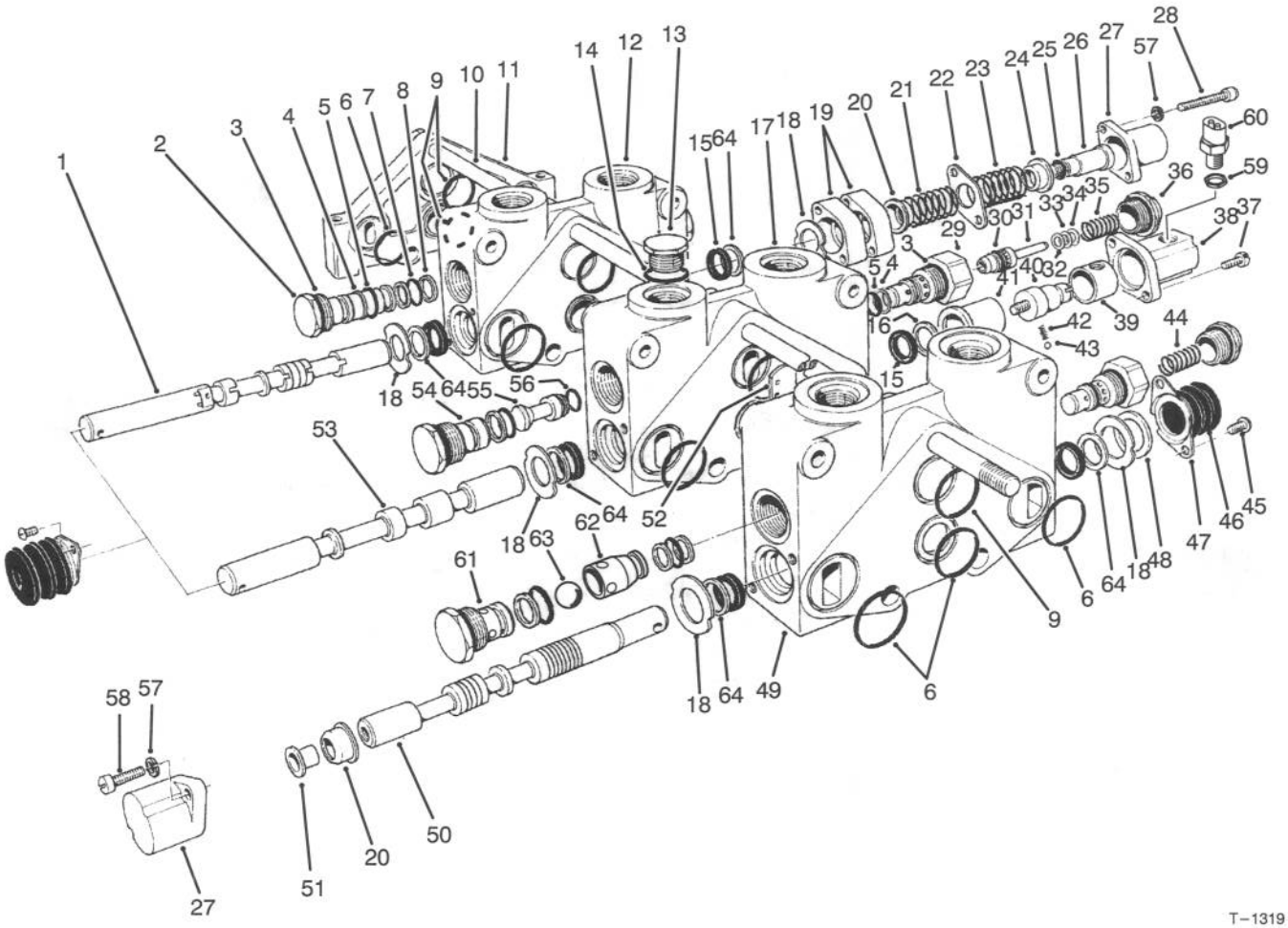
T–1318

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) (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



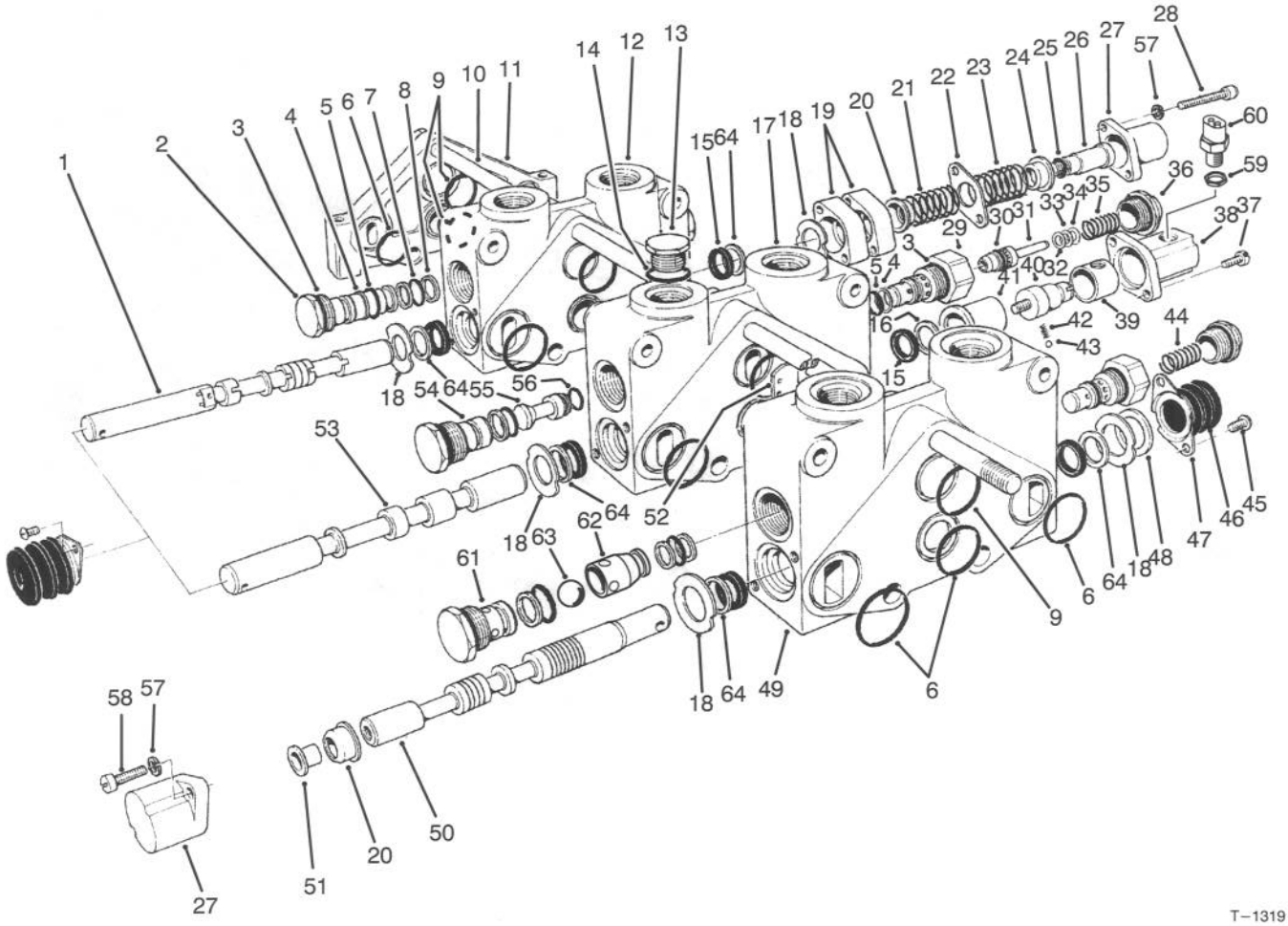
T–1319

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



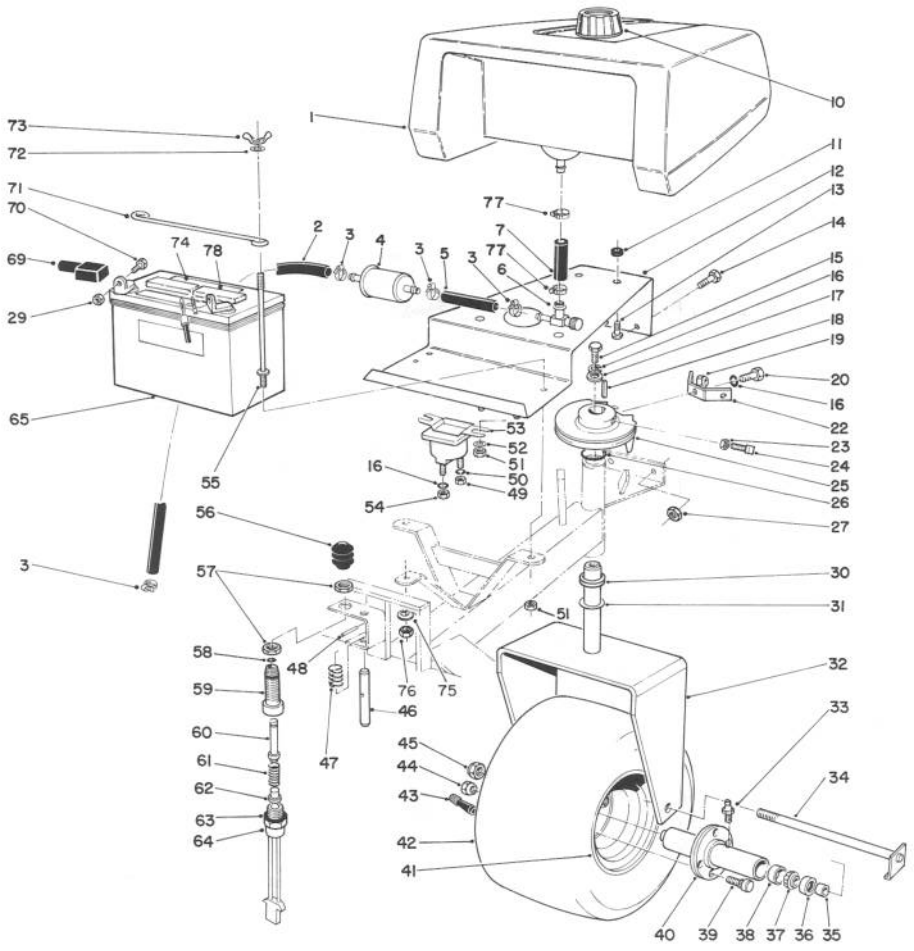
CONTROL VALVE ASSEMBLY NO. 84–2202
(Sections 3 Thru 5) (Continued)

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

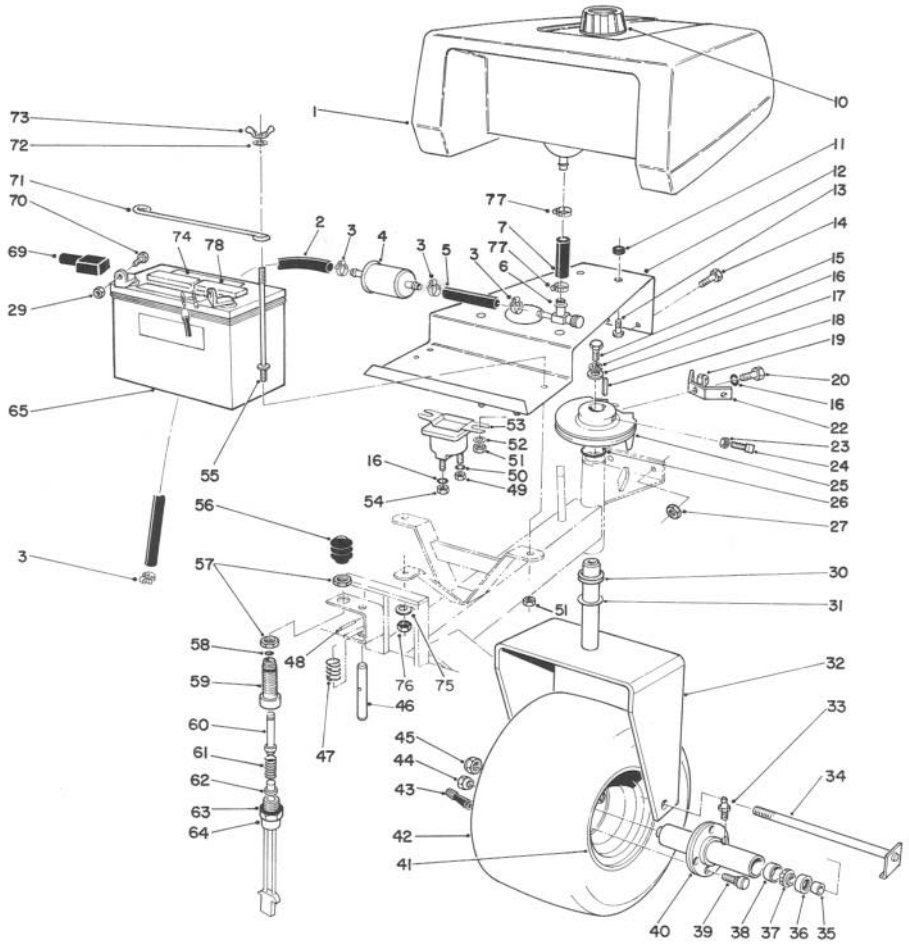


T–0303

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



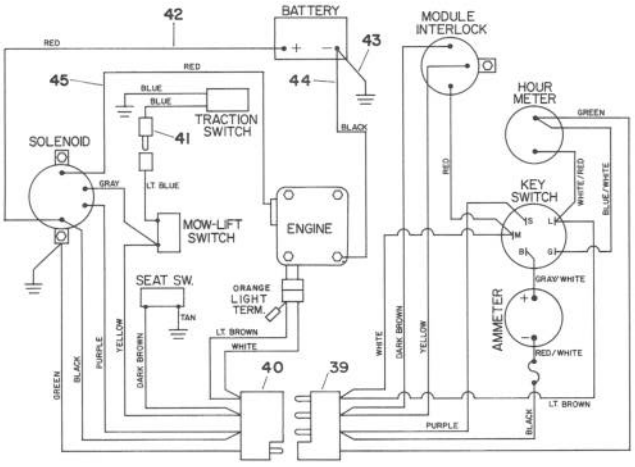
T–0303

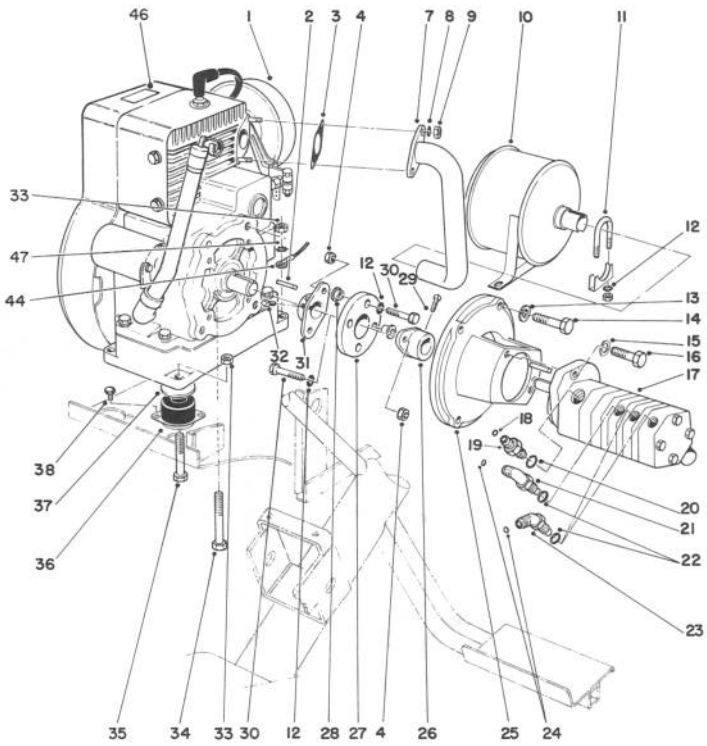
GAS TANK BATTERY & CASTER WHEEL ASSEMBLY (Continued)

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	92–1677	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





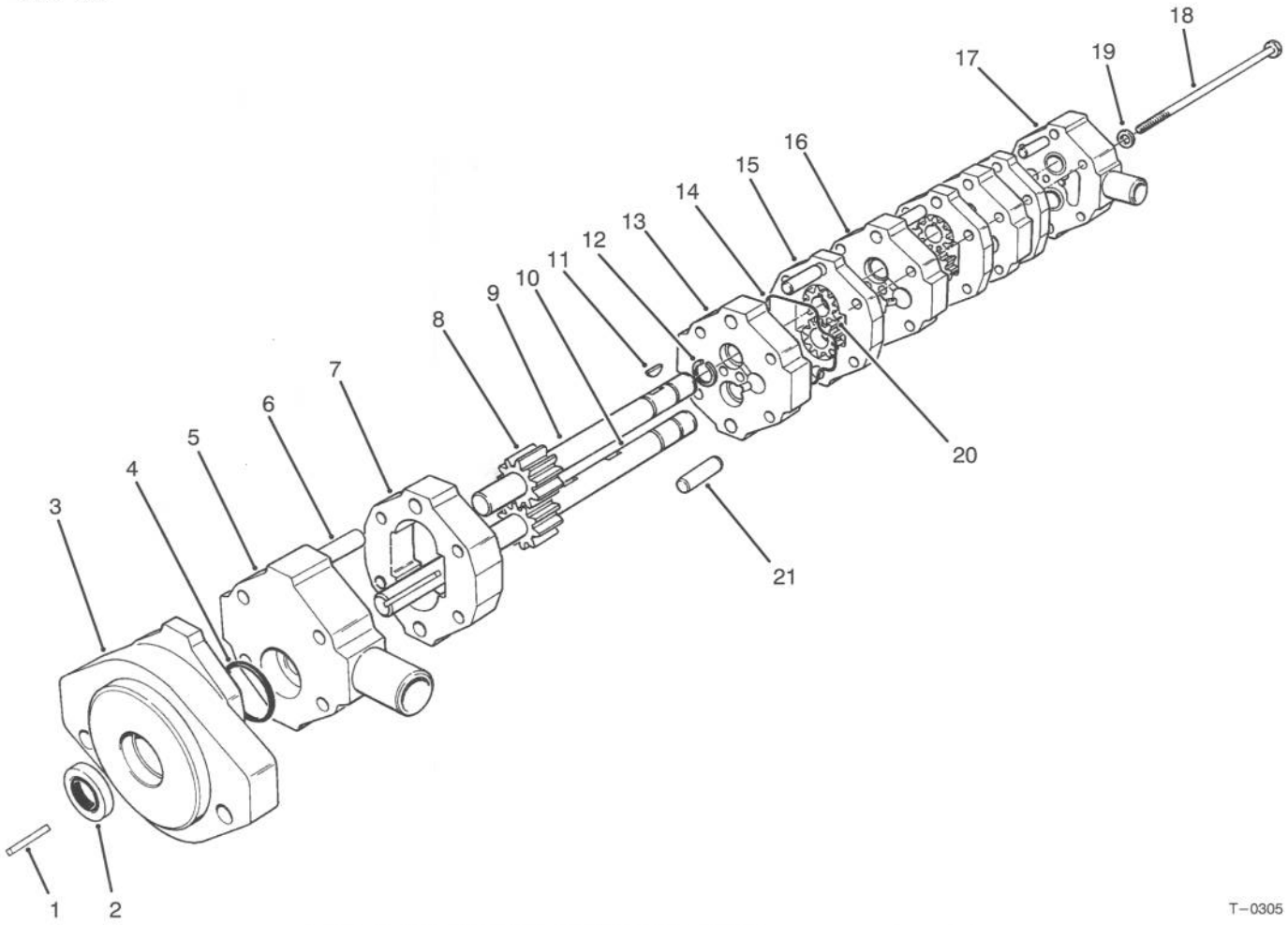
T–0304

ENGINE AND WIRING DIAGRAM

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

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

*Not Illustrated

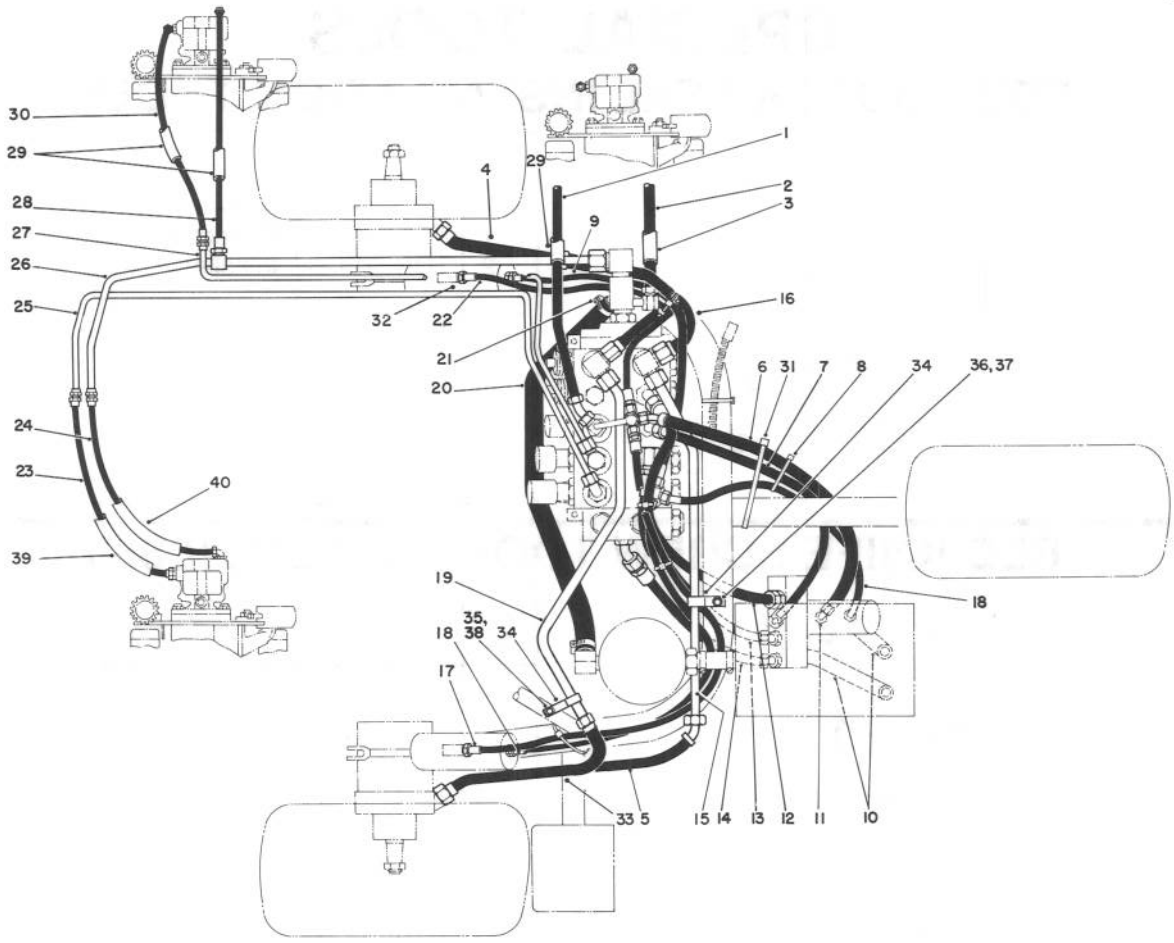


T–0305

TRACTION PUMP NO. 62–2300

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

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



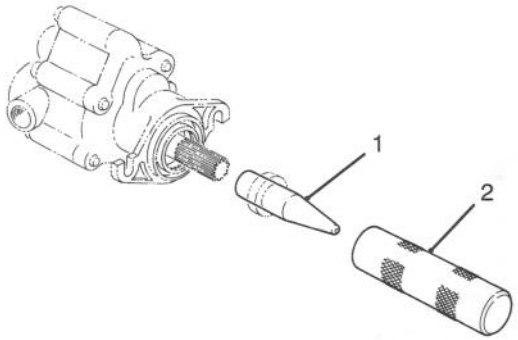
T–0306A

HYDRAULIC SYSTEMS DIAGRAM

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

SPECIAL TOOLS

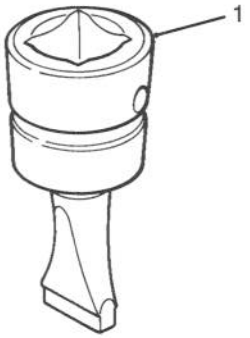
REEL MOTOR SEAL INSTALLATION TOOLS



T–0727

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

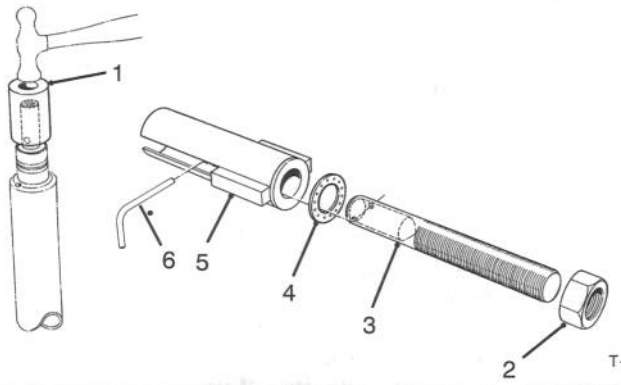
BED KNIFE SCREW TOOL NO. TOR510880



T–0729

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

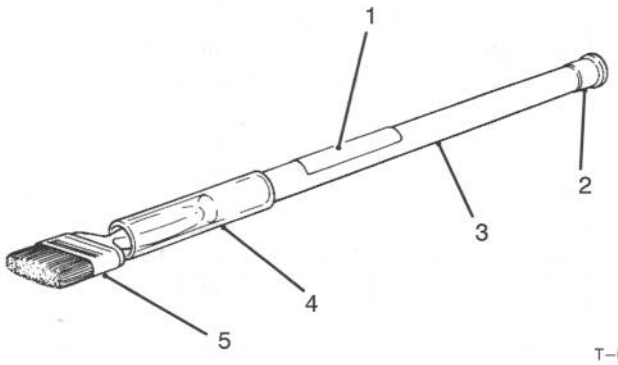
BEARING REPLACEMENT TOOL KIT NO. TOR238900



T–0730

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

BACKLAPPING BRUSH ASSEMBLY NO. 29–9100



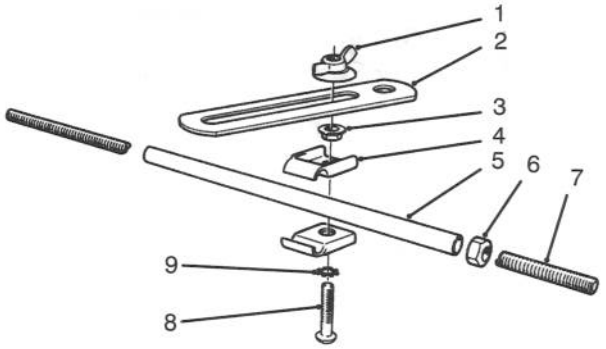
T–0731

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

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

SPECIAL TOOLS (Continued)

ALIGNMENT TOOL NO. TOR200120

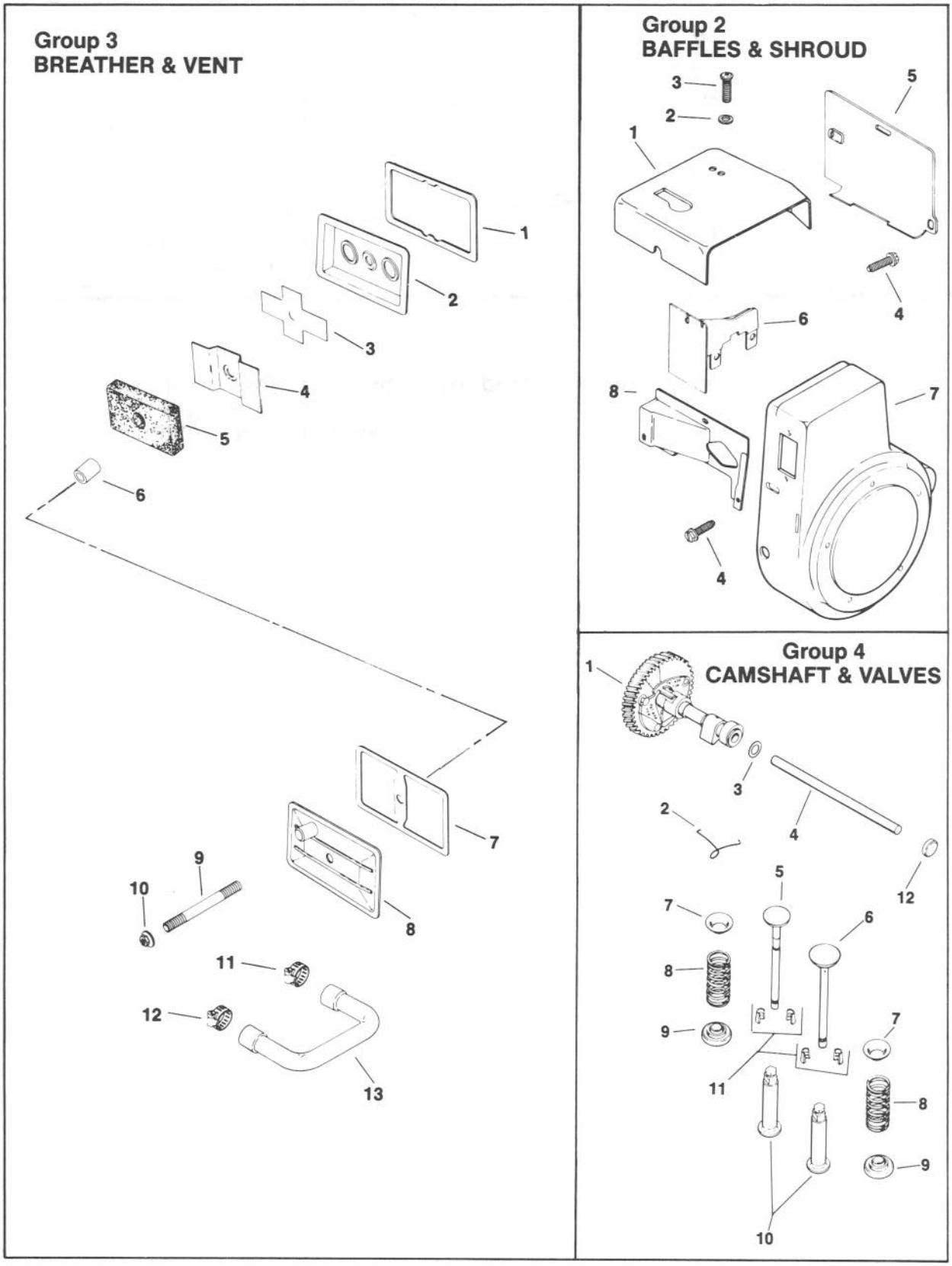


T–0732

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

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

ENGINE ASSY. – KOHLER MODEL NO. M16S–711533



T–1180

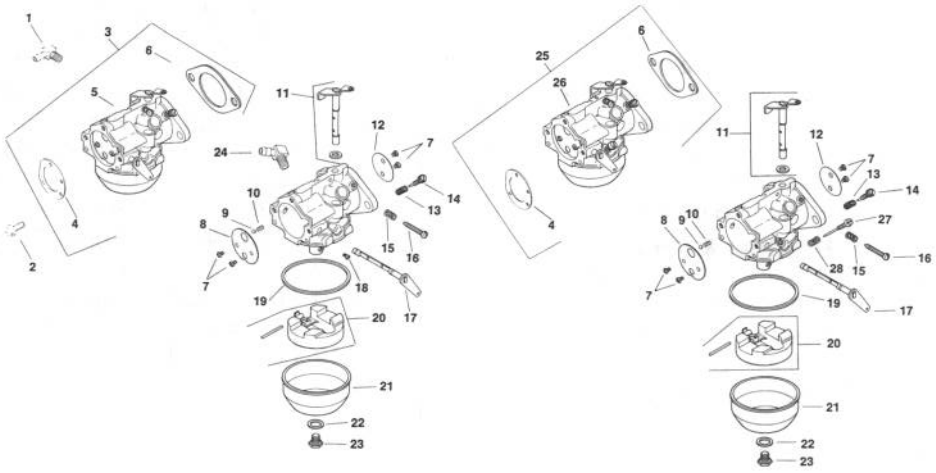
ENGINE ASSY. – KOHLER MODEL NO. M16S–711533

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

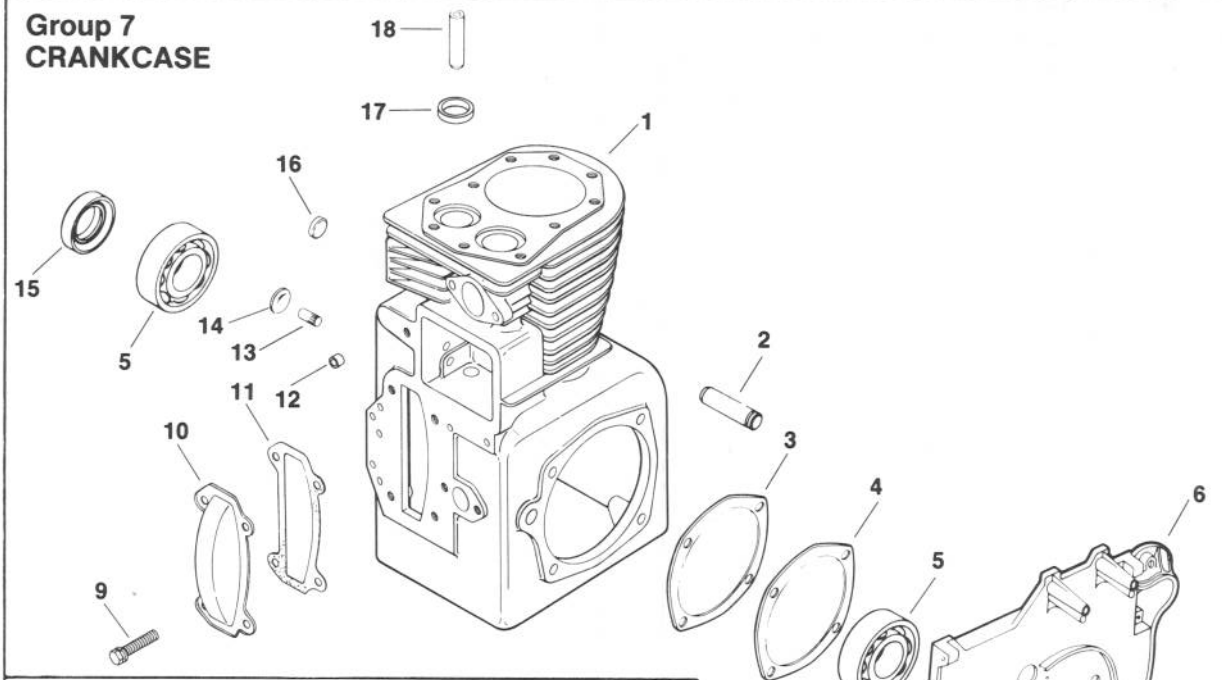
Ref. No.	Part No.	Description	No. Used
		Camshaft & Valves	
1	4701011	Camshaft Assembly	1
2	4708901	Spring – Actuating	1
3	275066	Spacer .005	A/R
3	275067	Spacer .010	A/R
4	4738009	Pin – Camshaft	1
5	237672	Valve – Exhaust	1
6	235582	Valve – Intake	1
7	235011	Retainer – Upper Spring	2
8	235168	Spring –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

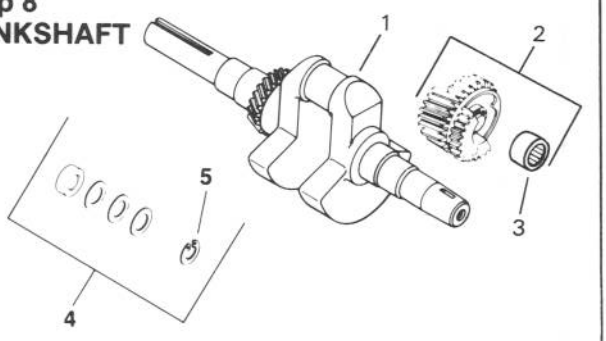
Group 5
CARBURETOR



Group 7
CRANKCASE



Group 8
CRANKSHAFT



T–1181

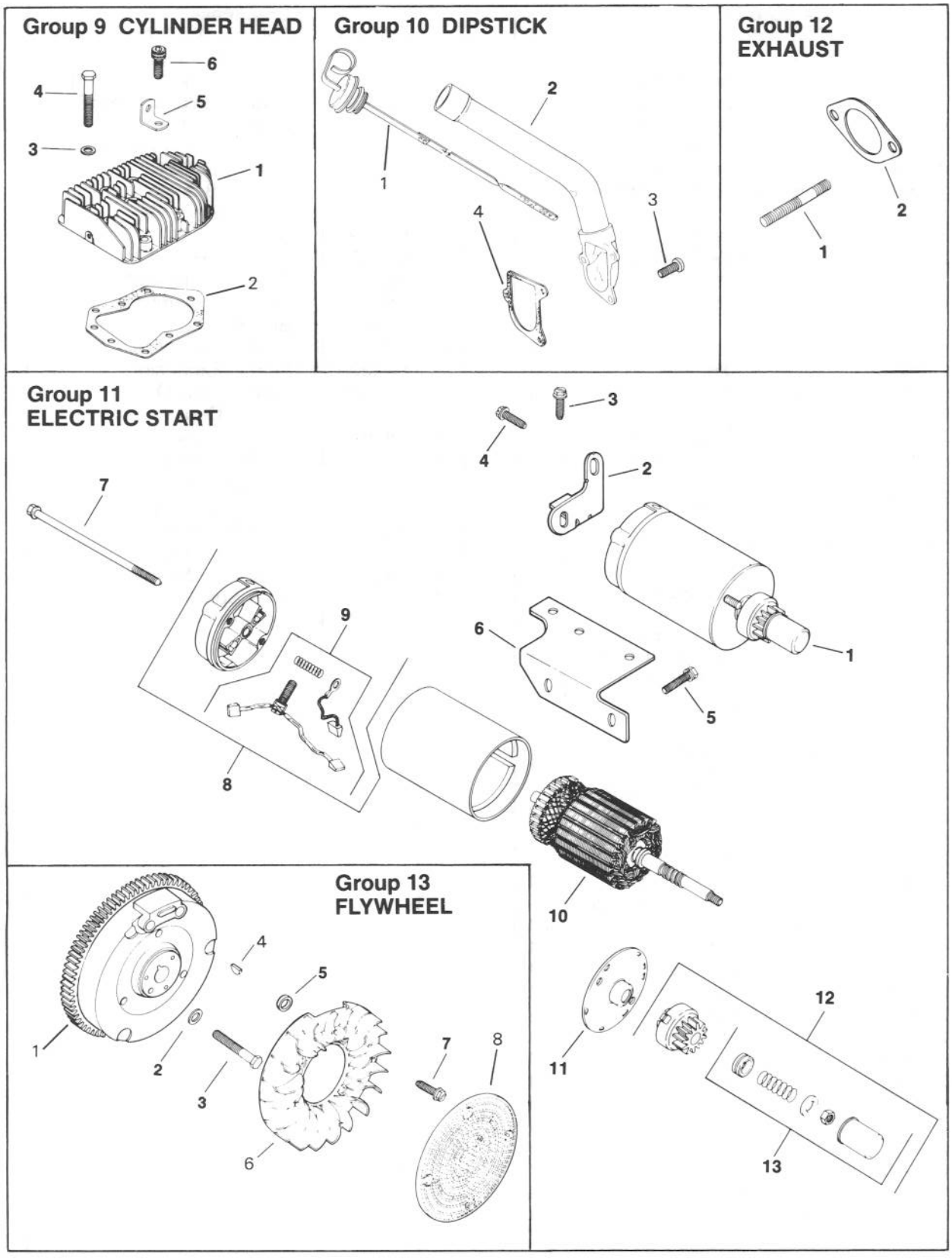
ENGINE ASSY. – KOHLER MODEL NO. M16S–711533

Ref. No.	Part No.	Description	No. Used
		Carburetor	
1	4515501	Connector – Hose	1
2	X–770–1	Screw – Sltd. Hd.	2
		Built with the following:	
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



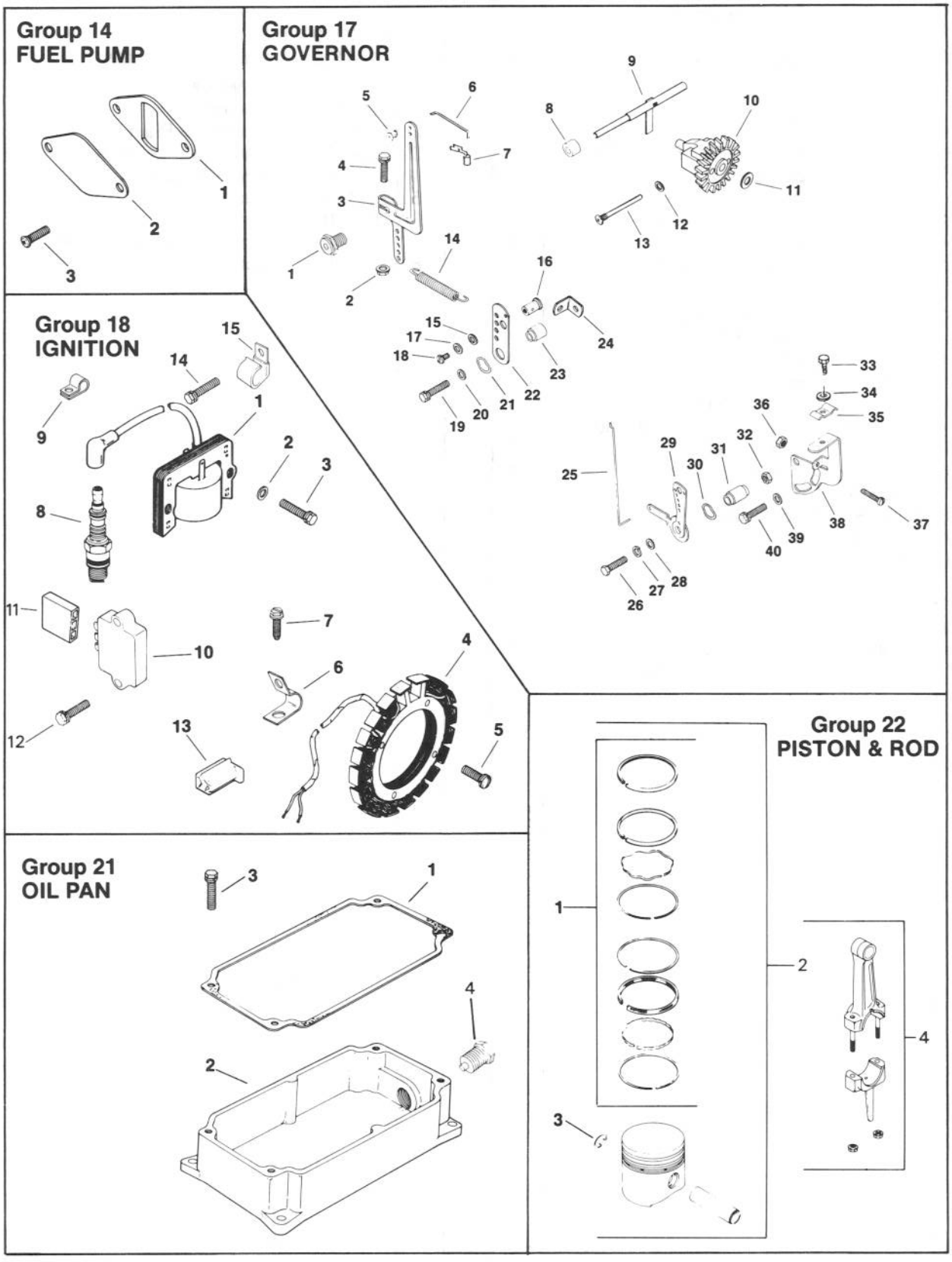
T–1182

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

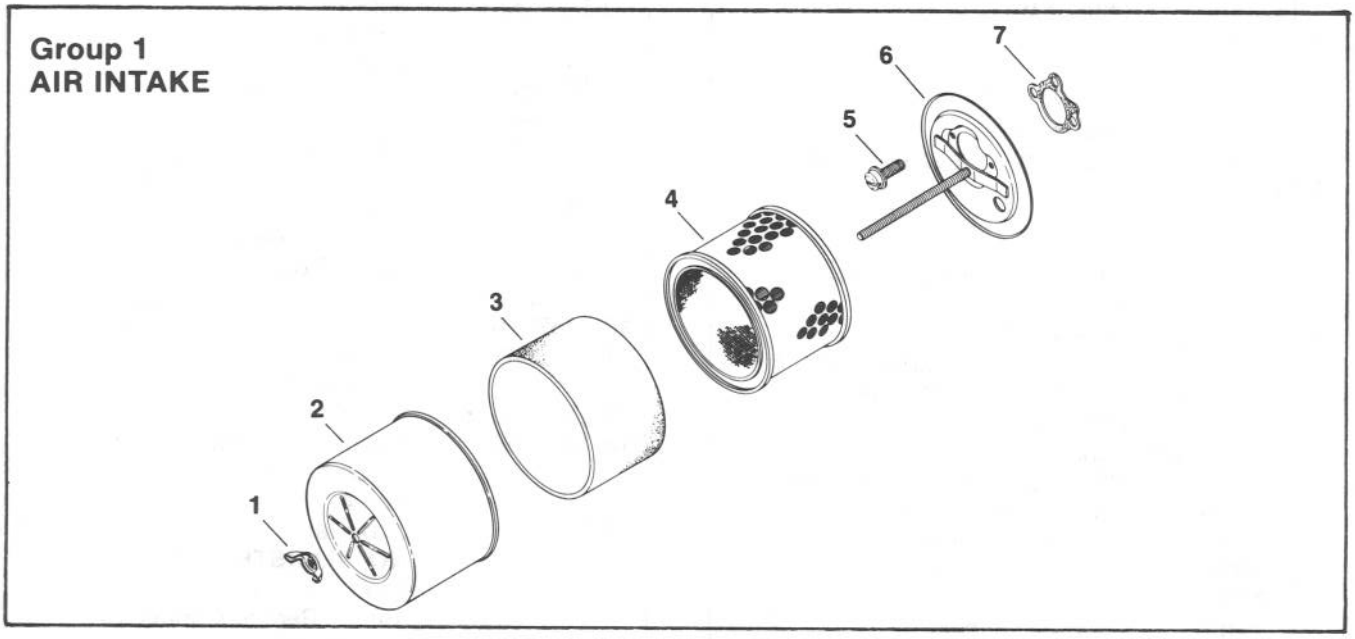
ENGINE ASSY. – KOHLER MODEL NO. M16S–711533



T–1183

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
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	1
		Lead White Module to Connector	
	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

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

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
56–7987	Sleeve – Protective	23	40	1
57–6140	Clamp – Tube Side	5	17	4
57–6220	Link Connector	13	56	5
57–7650	Spring – Torsion	5	34	2
57–7650	Spring – Torsion	2	47	1
57–7650	Spring – Torsion	7	49	1
58–6530	Decal – Oil	12	32	1
59–9810	Module	11	13	1
61–9390	Drum – Steering	19	25	1
62–2110	Muffler Assembly	21	10	1
62–2130	Control – Choke	11	20	1
62–2160	Pulley – Front Steering	10	8	1
62–2170	Washer–Thrust	19	31	1
62–2180	Steering Cable	10	9	1
62–2190	Washer – Special	19	17	1
62–2210	Tank Base	19	12	1
62–2220	Caster Fork	19	32	1
62–2270	Exhaust Pipe	21	7	1
62–2300	Traction Pump Assembly	21	17	1
62–2350	Wire Harness – Column	21	39	1
62–2390	Bar – Lift Arm L.H.	2	46	1
62–2420	Bar – Arm, Lift	5	35	1
62–2420	Bar – Lift Arm	8	50	1
62–2440	Arm – Lift, R.H.	5	31	2
62–2460	Lift Arm – L.H.	2	52	1
62–2470	Hose – Gas Line (Long)	19	2	1
62–2570	Breather Cap	12	33	1
62–2580	Spacer	5	*	2
62–2610	Screen Assembly	12	36	1
62–2630	Wire Assembly	21	45	1
62–2660	Pad – Foot Step	1	26	1
62–2780	Spark Arrestor Muffler	21	*	1
62–5070	Decal – Danger	5	47	1
62–5070	Decal – Danger	8	51	1
62–5070	Decal – Danger	2	63	1
62–5550	Decal – Toro	10	33	2
63–3810	Hose – Pressure R.H.	23	30	1
63–3820	Hose – Return R.H.	23	28	1
63–3830	Hose – Return L.H.	23	24	1
63–3840	Hose – Return, Rear	23	2	1
63–3850	Hose – Cylinder – Drop L.H.	23	17	1
63–3870	Hose – Pressure L.H.	23	23	1
63–3880	Hose – Cylinder, Lift R.H.	23	9	1
63–3890	Hose – Cylinder – Lift L.H.	23	18	2
63–3900	Hose – Pump #3	23	7	1
63–3910	Hose – Pump #2	23	13	1
63–3920	Hose – Pump #1	23	14	1
63–3930	Hose Cylinder – Drop, Rear	23	6	1
63–3940	Hose – Pump #4	23	12	1
63–3950	Hose – Cylinder – Drop L.H.	23	22	1
63–4020	Pressure Line	23	25	1
63–4030	Pressure Line	23	27	1
63–4040	Return Line – R.H.	23	26	1
63–4050	Fitting Traction Upper	12	10	2
63–4060	Brazed Tube Assembly	12	8	1
63–4080	Manifold Drain Orifice	12	2	1
63–4090	90° Fitting – Extended	13	54	1
63–7400	Washer – Flat	21	37	4
63–8360	Key	11	8	1
63–8750	Pin – Pivot	5	36	2
63–8750	Pin – Pivot	2	48	1
63–8750	Pin – Pivot	7	48	1
65–4860	Head	4	10	1
65–5871	Tube	10	43	1
65–5890	Cap	10	45	2
66–2950	Hour Meter Assembly	11	2	1
68–5100	Rod – Seat	10	49	1
68–5310	Clip Seat	10	51	1
68–5880	Return Line – Man. to Filter	23	20	1
68–5930	Handle – Traction	7	21	1
68–9910	Panel – Control	11	12	1
68–9930	Control – Throttle	11	21	1
68–9940	Decal – Control Panel	11	14	1
69–9760	Plate – Cover	3	90	1
70–2770	Head	9	10	1
70–2780	Piston	9	5	1
70–7130	Traction Line – Upper L.H.	23	19	1
70–7150	Traction Hose – Lower L.H.	23	5	1
70–8600	Traction Hose – Upper R.H.	23	4	1
70–8610	Hose – Traction, Upper L.H.	23	33	1
70–9800	Reel Motor	13	51	3
70–9840	Shoe & Lining Assembly	5	7	4
70–9850	Clip – Retainer	5	46	2
70–9860	Shaft – Cam	5	49	2
70–9870	Plate – Backing, Brake	5	48	2
70–9880	Spring	5	50	4
71–0990	Fitting – One Way Orifice	13	65	1
71–1500	Brake Assembly	5	*	2
71–1510	Arm – Brake R.H.	5	28	1
71–1510	Lever – Brake	1	29	1
71–3620	Decal – Engine	21	46	1
72–3850	Seal – Ring	12	50	1
72–4320	Switch – Neutral	20	64	1
72–4380	Seal Kit	14	18	1
72–4390	Repair Kit	14	19	
72–4790	Hold Down – Battery	20	71	1
74–3570	Filter Element	12	49	1
74–3580	Gas Tank	19	1	1
74–3730	Spacer	1	22	2
74–3730	Spacer	19	35	2
74–3830	Hose – Pressure, Rear	23	1	1
75–9380	Decal – Caution	10	3	1
75–9440	Hub Assembly	19	40	1
75–9990	Motor – Hydraulic	5	44	2
76–0800	Seal Kit	6	*	1
76–0810	Housing Assembly	6	*	1
76–0840	Manifold	6	22	1
76–0850	Bearing – Thrust	6	12	1
76–0860	Shaft – Coupling	6	11	1
76–0870	Plate – Wear	6	18	1
76–0880	Commutator Assembly	6	*	1
76–0940	End Cover Assembly	6	24	1
76–0960	Link – Drive	6	13	7
76–0970	Rotor Set	6	*	1
76–1010	Screw – Cap, Hex. Hd.	6	14	1
76–1720	Gasket – Filler Cap	13	67	1
76–1850	Clevis	4	14	1
76–1860	Shaft with Clevis	4	7	1
77–0480	Screw – Accelerator Stop	8	60	1
82–5570	Gasket – Exhaust	21	3	1
83–0060	Lift Pivot	2	64	1
83–0080	Spring – Lift Pivot	2	65	1
83–0140	Foot Pedal	3	85	1
83–0160	Shaft – Brake	1	8	1
83–0540	Rod – Accelerator	7	4	1
83–0820	Ammeter Assembly	11	4	1
83–1200	Tube – Traction Lower L.H.	23	15	1
83–1700	Bushing – Flange	7	27	3
83–1890	Switch – Ball	16	54	1
83–1890	Switch – Ball	18	60	1
83–2460	Hose – Traction Lower R.H.	23	16	1
83–2590	Bolt – Shoulder	3	91	1
83–7000	Hydraulic Cylinder Assy.	7	37	1
84–2000	Bracket – Brake	5	11	2
84–2202	Control Valve	13	57	1
84–2202	Control Valve Assembly	18	*	1
84–8290	Cylinder – Hydraulic	1	16	2
85–6540	Stud – Drive Type	5	6	8
86–5360	Seal Repair Kit	9	*	1
86–5390	Seal Repair Kit	4	*	1
86–9810	Pull Frame – L.H.	2	71	1
86–9820	Frame – Pull, R.H.	5	37	1
86–9820	Pull Frame – Rear	8	57	1
88–6900	Plate – Footrest	8	67	1
88–9500	Needle Valve Assembly	13	*	1
88–9630	Lift Pivot Bracket – R.H.	3	87	1
88–9640	Lift Pivot Bracket – L.H.	1	13	1
88–9660	Shaft – Cutting Control	1	11	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
88–9670	Lift Arm – Center	7	40	1
88–9680	Wire Harness – Traction	21	41	1
88–9690	Wire Harness – Frame	21	40	1
92–0585	Pull Arm Assembly – R.H.	2	69	3
92–0586	Pull Arm Assembly – L.H.	2	59	3
92–0587	Fitting – Hydraulic Valve	13	55	1
92–0588	Bushing – Needle	12	17	1
92–1180	Seat Assembly	10	*	1
92–1192	Frame	7	19	1
92–1194	Plate – Traction	8	63	1
92–1195	Decal – Service	10	53	1
92–1199	Decal – Greensmaster 3000	2	78	1
92–1677	Battery	20	65	1
92–1699	Cap – Battery (Flush)	20	78	1
92–1707	Cap – Battery (Poison)	20	74	1
92–2545	Seals – Spool	16	*	1
92–2545	Seals – Spool	18	*	1
92–2546	Wiper – Seal	15	25	4
92–2546	Wiper – Seal	18	64	5
92–2547	Plate – Seal Retainer	17	18	6
92–2547	Plate – Seal Retainer	15	24	4
92–2548	Seal – Spool Set	16	*	1
92–2548	Seals– Single End Set	18	*	1
92–2549	Seals – End Set #4 Only	18	*	1
92–3048	Spring – Centering	15	41	1
92–3148	Spring	17	23	1
92–6533	Kit – Cushion	10	24	1
92–6534	Shell	10	25	1
217–60	Rim	5	3	2
217–60	Rim	19	41	1
218–461	Nut – Hex	11	7	1
218–461	Nut – Jam	20	57	2
218–489	Fuse Holder	11	1	1
231–124	Tire – Treaded	5	*	2
232–24	Valve Stem – With Cap	19	43	1
232–24	Valve Stem w/Cap	5	52	2
232–37	Inner Tube – Heavy Duty	5	*{	2
233–48	Knob	7	20	1
233–50	Knob	11	9	2
237–7	O–Ring	20	58	1
237–21	O–Ring	12	9	7
237–21	O–Ring	1	19	1
237–22	O–Ring	12	7	A/R
237–22	O–Ring	21	24	2
237–30	O–Ring	12	5	A/R
237–30	O–Ring	21	18	1
237–30	O–Ring	20	63	1
237–42	O–Ring	12	11	A/R
237–42	O–Ring	21	22	3
237–54	O–Ring	17	3	6
237–54	O–Ring	15	6	8
237–58	O–Ring	12	3	A/R
237–65	O–Ring	5	14	4
237–65	O–Ring	13	66	4
237–78	O–Ring	9	1	2
237–78	O–Ring	1	17	4
237–79	O–Ring	12	6	8
237–79	O–Ring	21	20	1
237–80	O–Ring	5	12	4
237–80	O–Ring	12	13	2
237–81	O–Ring	12	1	1
237–100	Grommet	11	19	1
237–101	O–Ring	12	24	1
237–136	Grommet	19	11	4
237–148	Seal – Quad Ring	19	30	1
237–149	O–Ring – Seal	19	26	1
242–50	Nut – Wheel	5	1	8
242–50	Nut – Wheel	19	44	4
2410–18	Plug	24	2	1
2411–32	Ball Joint	8	62	2
2412–3	Clamp – Hose	23	21	2
2412–3	Clamp – Hose	12	26	8
2412–36	Clamp – Gas Line	20	77	2
2412–41	Clip	11	16	1
2412–41	R–Clamp	23	34	3
2412–76	Muffler Clamp Assembly	21	11	1
2412–102	R–Clamp	10	44	2
2412–108	Clamp – Hose	19	3	4
251–141	Bearing – Ball	2	67	6
253–111	Seal	19	36	2
254–78	Cone	19	37	2
254–79	Cup	19	38	2
256–2	Bushing	10	14	4
256–2	Bushing	8	54	2
256–113	Bushing	10	6	2
256–155	Bushing	10	37	2
256–219	Bushing	8	65	2
256–251	Bushing	7	22	2
256–290	Bushing	7	25	2
281–1	Plug – Oil	12	45	1
282–2	Yoke	2	33	4
282–2	Yoke	5	21	2
283–1	Pin – Clevis	2	34	4
283–1	Pin – Clevis	5	42	2
283–8	Pin – Clevis	1	27	2
283–57	Pin – Clevis	7	18	1
302–2	Fitting – Grease	4	1	2
302–5	Fitting – Grease	7	26	1
302–5	Fitting – Grease	19	33	1
302–5	Fitting – Grease	2	58	8
302–11	Fitting – Grease	7	41	1
302–60	Fitting – Grease	1	20	4
302–60	Fitting – Grease	5	30	1
302–60	Fitting – Grease	7	39	1
304–61	Clamp	13	60	1
321–3	Screw – Cap, Hex Hd.	12	44	2
321–3	Screw – Cap, Hex Hd.	20	70	2
321–3	Screw – Cap, Hex. Hd.	11	11	1
321–3	Screw – Cap, Hex. Hd.	23	36	1
321–3	Screw – Cap, Hex. Hd.	10	52	1
321–5	Screw – Cap, Hex. Hd.	5	8	8
321–11	Screw – Cap, Hex Hd.	3	86	1
321–18	Screw – Cap, Hex Hd.	10	2	1
322–1	Screw – Cap, Hex Hd.	7	34	2
322–1	Screw – Cap, Hex. Hd.	1	25	6
322–1	Screw – Cap, Hex. Hd.	5	38	1
322–2	Screw – Cap, Hex Hd.	12	23	2
322–3	Screw – Cap, Hex Hd.	19	15	1
322–3	Screw – Cap, Hex. Hd.	10	46	2
322–4	Screw – Cap, Hex Hd.	12	22	2
322–4	Screw – Cap, Hex. Hd.	11	18	1
322–5	Screw – Cap, Hex Hd.	7	11	2
322–5	Screw – Cap, Hex Hd.	19	20	1
322–6	Screw – Cap, Hex Hd.	21	30	4
322–14	Screw – Cap, Hex Hd.	13	63	3
323–6	Screw – Cap, Hex Hd.	19	14	2
323–6	Screw – Cap, Hex Hd.	10	19	2
323–8	Screw – Cap, Hex Hd.	21	16	2
323–10	Screw – Cap, Hex Hd.	1	14	4
323–15	Screw – Cap, Hex Hd.	21	34	1
323–20	Screw – Cap, Hex Hd.	21	35	3
324–6	Screw – Cap, Hex Hd.	21	14	4
325–3	Screw – Cap, Hex Hd.	10	17	4
325–11	Screw – Cap, Hex. Hd.	5	10	8
3211–1	Screw – Cap, Hex Hd.	7	42	2
3217–5	Nut– Hex	19	29	2
3217–6	Nut – Hex	21	9	2
3217–7	Nut – Hex	15	33	3
3217–25	Nut	11	29	2
3218–2	Nut – Jam	19	23	2
3218–13	Nut – Jam	19	54	2
3219–2	Nut – Hex.	25	6	1
3219–14	Nut	11	3	6
3219–14	Nut–Hex	19	49	2
3219–18	Nut – Hex.	24	2	1
3220–2	Nut	5	20	2
3220–2	Nut – Hex	2	35	4
3220–2	Nut – Hex. Jam	8	64	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

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

*Not Illustrated

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353–328	Washer – Shim	17	32	A/R
353–329	Washer – Shim	15	16	A/R
353–329	Washer – Shim	17	33	A/R
353–330	Washer – Shim	15	17	A/R
353–330	Washer – Shim	17	34	A/R
353–331	O–Ring	15	29	1
353–334	Cap – Relief	15	19	2
353–334	Cap – Relief	17	36	2
353–392	Seal – Relief Poppet PTFE	15	13	2
353–392	Seal – Relief Poppet PTFE	17	30	2
353–398	Spring	17	35	1
353–417	Collar Spring	17	20	2
353–417	Collar Spring	15	40	2
353–481	Plug – Load Check	17	2	2
353–481	Plug – Load Check	15	5	3
353–483	Body – Anticavitation	18	61	1
353–484	Retainer – Ball	18	62	1
353–529	Plate Seal	17	22	1
353–531	Poppet Assembly	17	31	2
353–531	Poppet Assy.	15	14	2
353–550	Plug Assembly	17	13	1
353–559	Retainer – Boot	15	22	2
353–559	Retainer – Boot	17	47	3
353–560	Washer – Breather	15	23	2
353–560	Washer – Breather	18	48	3
353–563	Fitting – Straight	12	25	1
353–564	90° Fitting	13	53	1
353–575	Boot – Dust Cap	15	21	2
353–575	Boot – Dust Cap	17	46	3
353–579	Spring	15	45	1
353–586	Bearing – Needle	14	13	4
353–588	Cover – Motor	14	3	1
353–591	Block – Anti–Extrusion	14	8	1
353–592	Drive Shaft Assembly	14	16	1
353–593	Idler Gear Assembly	14	7	1
353–594	Seal Assembly	14	14	1
353–595	Wear Plate	14	15	1
353–596	O–Ring	14	17	1
353–597	Bridging – Insert	14	5	1
353–598	Gasket – Insert	14	6	1
353–599	Pin – Dowel	14	4	2
353–600	Washer	14	2	4
353–600	Washer – Flat	22	19	4
353–601	Screw – Hex Socket Hd.	14	1	4
353–642	Relief – RC Mod.	16	*	2
353–642	Relief – RC Mod. Assembly	18	*	1
353–668	Plate – Cap, Cover RH	17	11	1
353–721	Plug	15	35	2
353–727	Bonnet	15	2	1
353–728	Sleeve	16	49	1
353–729	Spud – Detent	15	3	1
353–730	Spring	17	42	1
353–731	Ball	17	43	1
353–732	Sleeve – Detent	16	52	1
353–733	Spacer – Bonnet	15	4	1
353–733	Spacer – Bonnet	17	19	2
353–737	Ball	18	63	1
353–754	Bonnet – R. Detent	15	42	1
353–758	Seal – O–Ring	15	31	1
353–760	Body Relief	15	30	1
353–762	Spud – Detent Out	16	50	1
353–763	Cap – Adjustment	15	44	1
353–766	Relief WH (2000) PSI Assy.	16	*	1
353–768	Section #1 Complete	16	*	1
353–772	Left End Cover	15	34	1
353–777	Body – Motor	14	12	1
353–780	Positioner – R. Detent (Out)	16	*54	1
353–808	Collar – Spring	17	24	1
353–829	Collar Spool	17	26	1
353–830	O–Ring	17	25	1
353–831	Spring	17	21	1
353–833	Positioner Assembly	18	*	1
353–834	Section #5 Assembly	18	*	1
353–835	Seals – Section Set	16	*	1
353–835	Seals – Section Set	18	*	1
353–837	Section #2 Complete	16	*	1
353–839	Positioner – DI (SPL) Assy.	16	*	1
353–840	Position – DI (SP) Assy.	18	*	1
353–841	Position – Spool Assembly	18	*	1
353–844	Plug Series	18	55	1
353–845	Sleeve – Detent	17	41	1
353–846	Spud – DI (SPL)	17	40	1
353–847	Bonnet (SPL)	17	38	1
353–848	O–Ring	17	14	1
353–849	Sleeve	17	39	1
353–850	O–Ring	18	56	1
353–851	Body – Relief CP–RC Mod.	15	12	1
353–851	Body – Relief CP–RC Mod.	17	29	2
353–853	Bolt – Hex Hd.	17	10	3
353–854	Boot – Spool Assembly	16	*	2
353–854	Boot – Spool Assembly	18	*	3
353–855	Spring	15	18	2
353–855	Spring	17	44	1
353–884	Key – Woodruff	22	11	4
353–886	Ring – Retaining	22	12	2
353–916	Flange Assembly	22	3	1
353–917	O–Ring	22	4	1
353–918	Body Assembly	22	5	1
353–921	Plate Assembly	22	13	1
353–922	Seal Ring – Pump	22	14	8
353–923	Plate Assembly	22	16	2
353–927	Cover Assembly	22	17	1
353–931	Seal – Oil	22	2	1
353–952	Ring – Backup	15	32	1
353–953	Plug Assembly	18	54	1
353–957	Seal – Lip	17	15	6
353–957	Seal – Lip	15	26	4
353–958	Ring – Backup	17	16	1
353–961	Flange Adaptor	12	31	1
353–962	Cap and Chain Assembly	12	34	1
353–963	Gasket	12	37	2
353–964	Gear – 66B	22	8	2
353–965	Idler Shaft Assembly	22	9	1
353–966	Screw – Cap, Hex Hd.	22	18	4
353–967	Gear – 33B	22	20	5
353–968	Dowel	22	21	6
353–969	Gear Plate – 30B	22	15	3
353–970	Dowel	22	6	2
353–971	Gear Plate – Pump	22	7	1
353–972	Shaft – Drive	22	10	1
354–25	Section #4 Assembly	18	*	1
354–26	Bonnet	17	27	2
354–28	Screw – Hex, Socket Hd.	17	28	2
354–29	Plate – Thrust	16	48	1
354–122	Disc – Seal	18	52	1
354–129	Anticavitation Check Assy.	18	*	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.

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