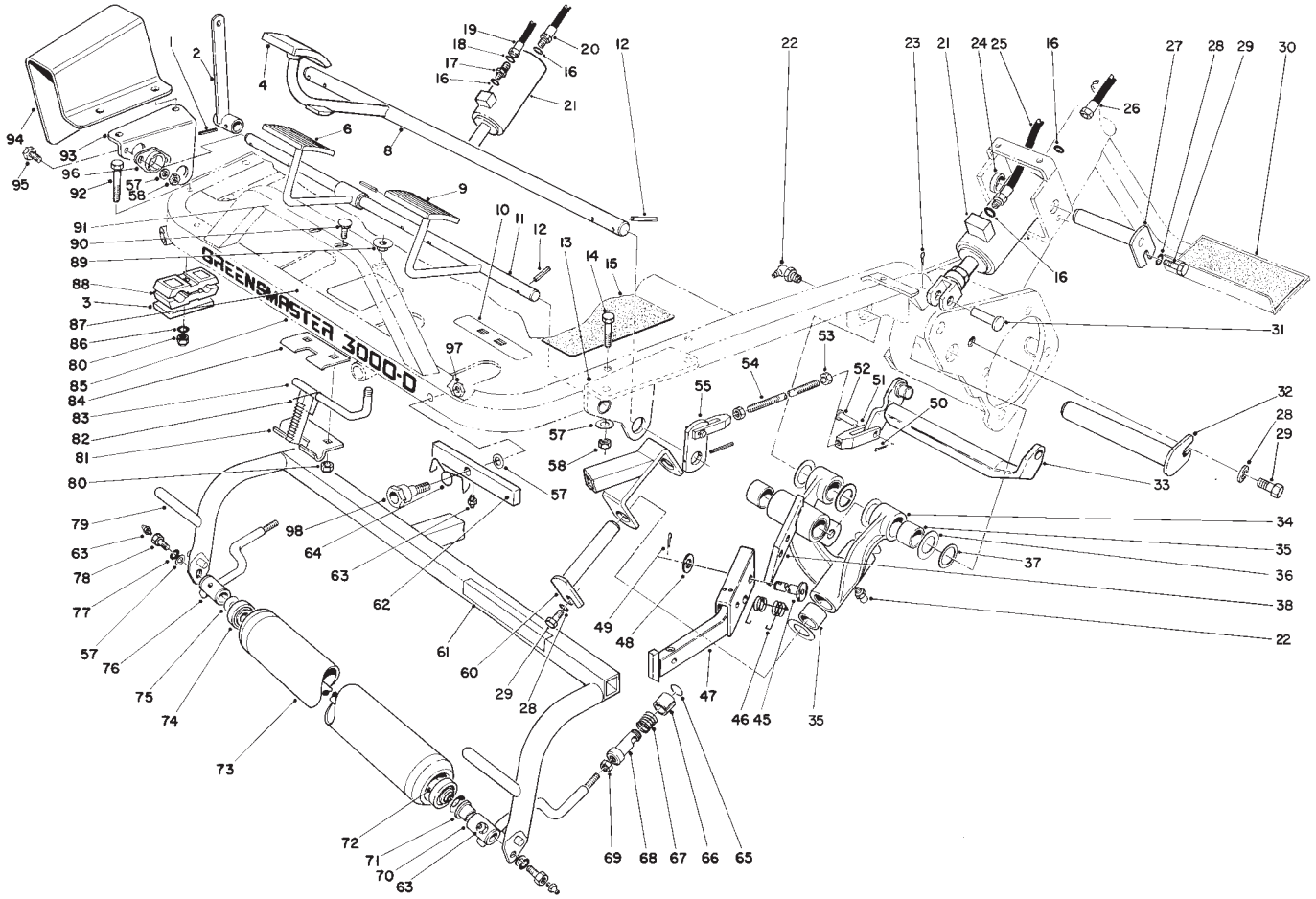
FORM NO. 3317–751

TORO®

MODEL NO. 04375–50500 & UP

PARTS CATALOG

GREENSMASTER® 3000–D
TRACTION UNIT



T–0642B

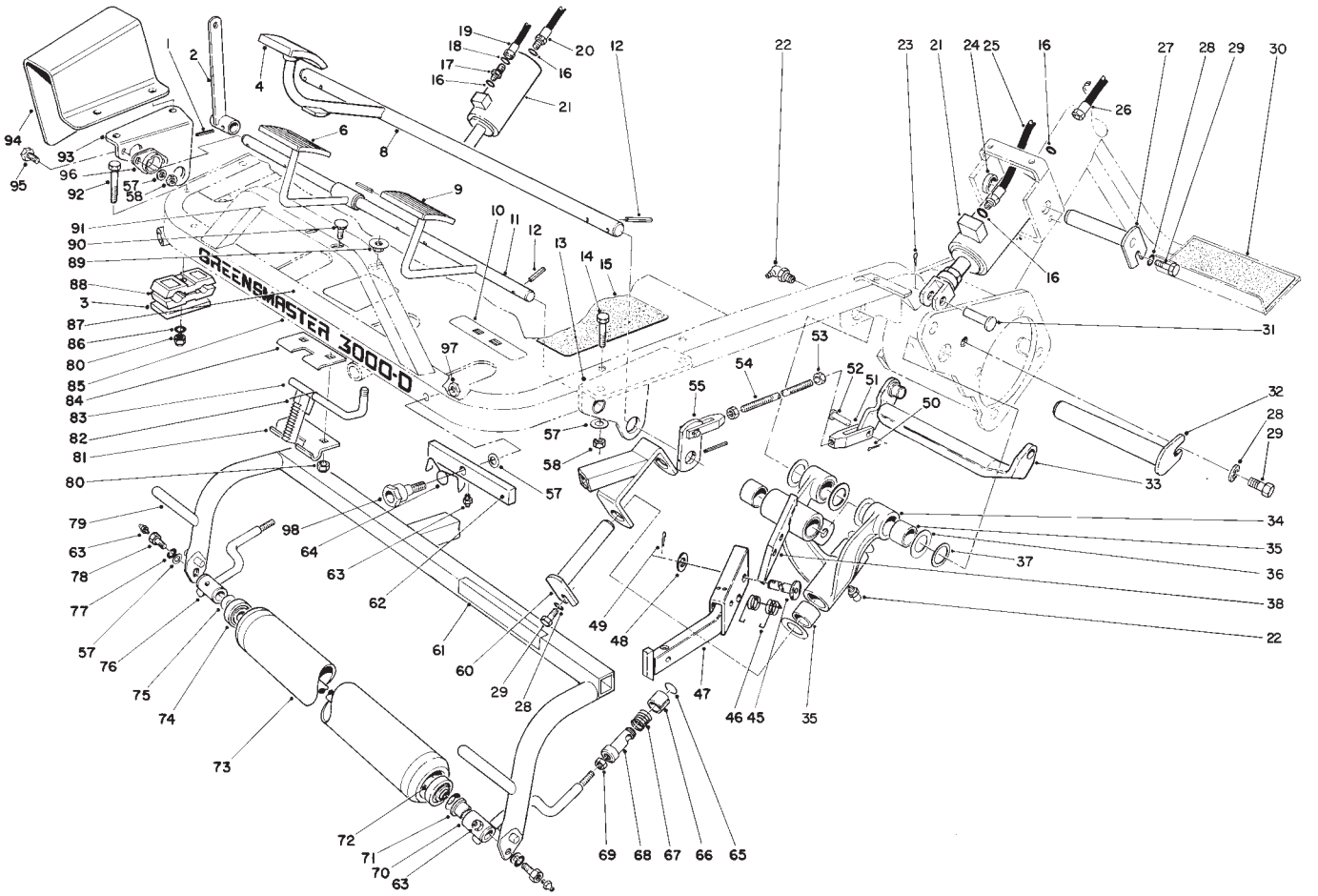
FOOT PEDALS & ROLLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32121–6	Pin – Roll	1
2	49–6200	Lever – Cutting Control	1
3	69–9760	Plate – Cover	1
4	93–7629	Foot Pad – Brake	1
6	93–7630	Foot Pad – Mow	1
8	83–0160	Brake Shaft	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 – LH	1
14	323–10	Screw – Cap, Hex Hd.	4
15	49–6120	Pad – Footrest	1
16	237–78	O–Ring	4
17	340–92	Fitting – Straight (Incl. Ref. #16 & 18)	1

Ref. No.	Part No.	Description	No. Used
18	237–21	O–Ring	1
19	63–3950	Hose – Cylinder, Drop RH	1
20	88–9700	Hose – Hydraulic	1
21	84–8290	Hydraulic Cylinder Assy.	2
22	302–60	Fitting – Grease	4
23	3272–11	Pin – Cotter	2
24	74–3730	Spacer – Cylinder	2
25	63–3850	Hose – Cylinder, Drop LH	1
26	63–3890	Hose – Cylinder, Lift LH	1
27	10–6060	Pin – Cylinder, Pivot	2
28	3256–23	Washer – Plain	5
29	322–1	Screw – Cap, Hex. Hd.	5
30	62–2660	Pad – Step	1
31	283–8	Pin – Clevis	2
32	10–6110	Pin – Hinge	2
33	71–1510	Arm – Brake	1

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TPS

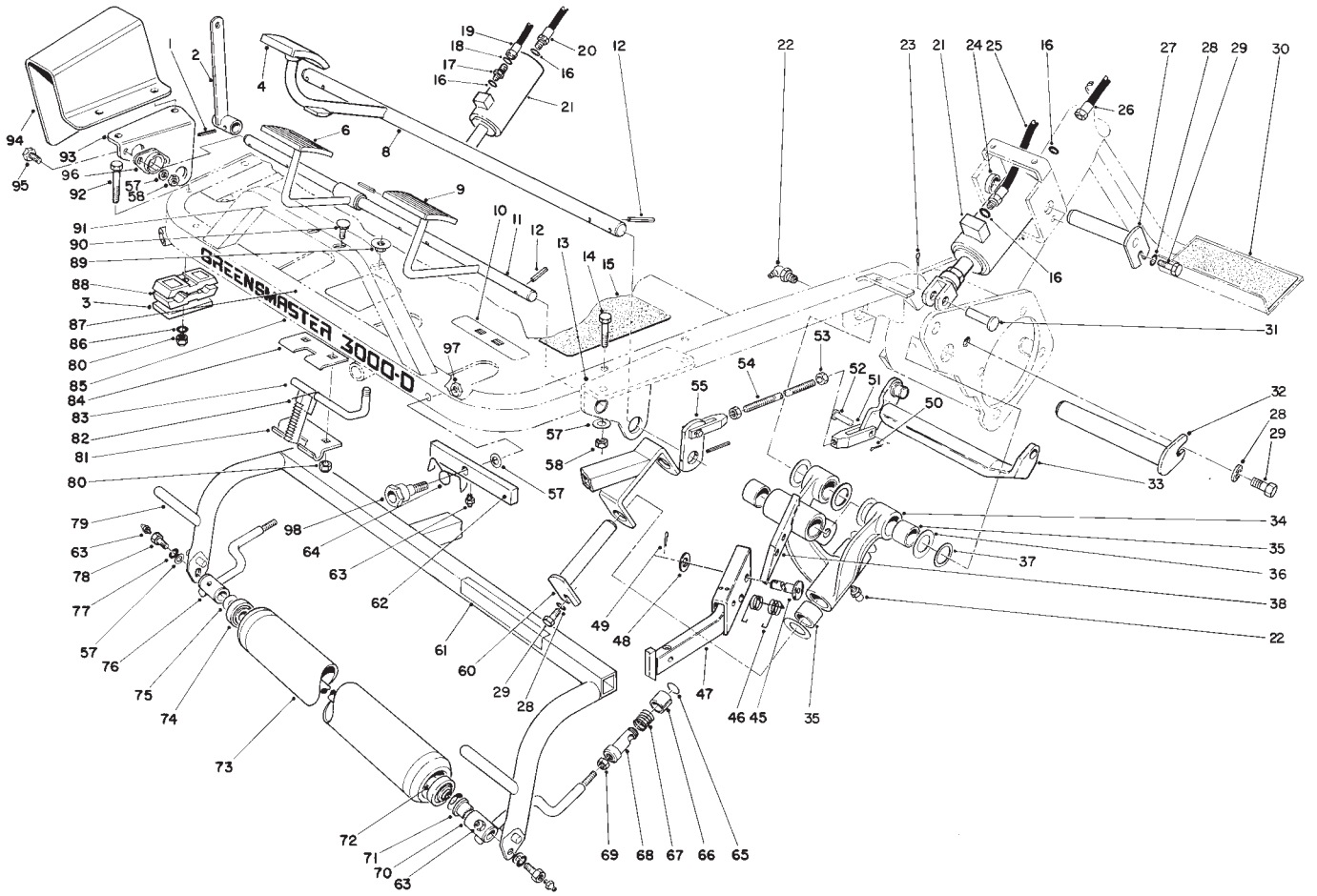


T–0642B

FOOT PEDALS AND ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
34	10–7820	Pivot Hinge Assembly (Incl. Ref. #35)	1
35	3–0348	Bushing – Sleeve	6
36	10–8110	Washer – Thrust	6
37	5–1226	Washer – Shim	2
38	62–2460	Lift Arm Assembly – LH (Incl. Ref. #35)	1
45	63–8750	Pin – Pivot	1
46	57–7650	Spring – Torsion	1
47	62–2390	Bar – Lift, LH	1
48	3256–26	Washer – Flat	2
49	3272–12	Pin – Cotter	1
50	3272–6	Pin – Cotter	4
51	282–2	Yoke	4
52	283–1	Pin – Clevis	4
53	3220–2	Nut – Jam	4
54	27–2270	Rod – Adjustment, Brake	2
55	10–8100	Strap – Shaft, Brake	2
57	3256–24	Washer – Flat	15
58	3296–59	Nut – Lock	8
60	10–6090	Pin – Pivot	1
61	62–5070	Decal – Danger	1
62	83–0060	Pivot – Lift	1
63	302–5	Fitting – Grease	13
64	83–0080	Spring – Torsion	1
65		Ring – Retaining	6

Ref. No.	Part No.	Description	No. Used
66		Sleeve	6
67		Spring	6
68	8–7710	Ball Joint Receiver Assy. (Incl. Ref. #65–67)	6
69	3220–3	Nut – Jam	6
70	92–0586	Pull Arm Assembly – LH (Incl. Ref. #71)	3
71	3–1506	Bushing – Flange	12
72	21–8470	Shaft – Yoke, Roller	3
73	52–2720	Roller Assembly (Incl. Ref. #74)	3
74	251–141	Bearing – Ball	6
75	3290–317	Washer – Spring	6
76	92–0585	Pull Arm Assembly – RH (Incl. Ref. #71)	3
77	3253–21	Washer – Lock	8
78	11–0160	Screw Assy. – Shaft, Roller (Incl. Ref. #63)	6
79	92–9176	Frame – Pull, LH	1
80	3296–16	Nut – Lock	3
81	10–7890	Hinge – Lower, Park Brake	1
82	10–8140	Spring – Latch, Brake	1
83	10–7850	Latch – Brake, Parking	1
84	10–7880	Hinge – Upper, Park. Brake	1
85	88–9720	Decal – GR 3000D	1
86	3253–3	Washer – Lock	1

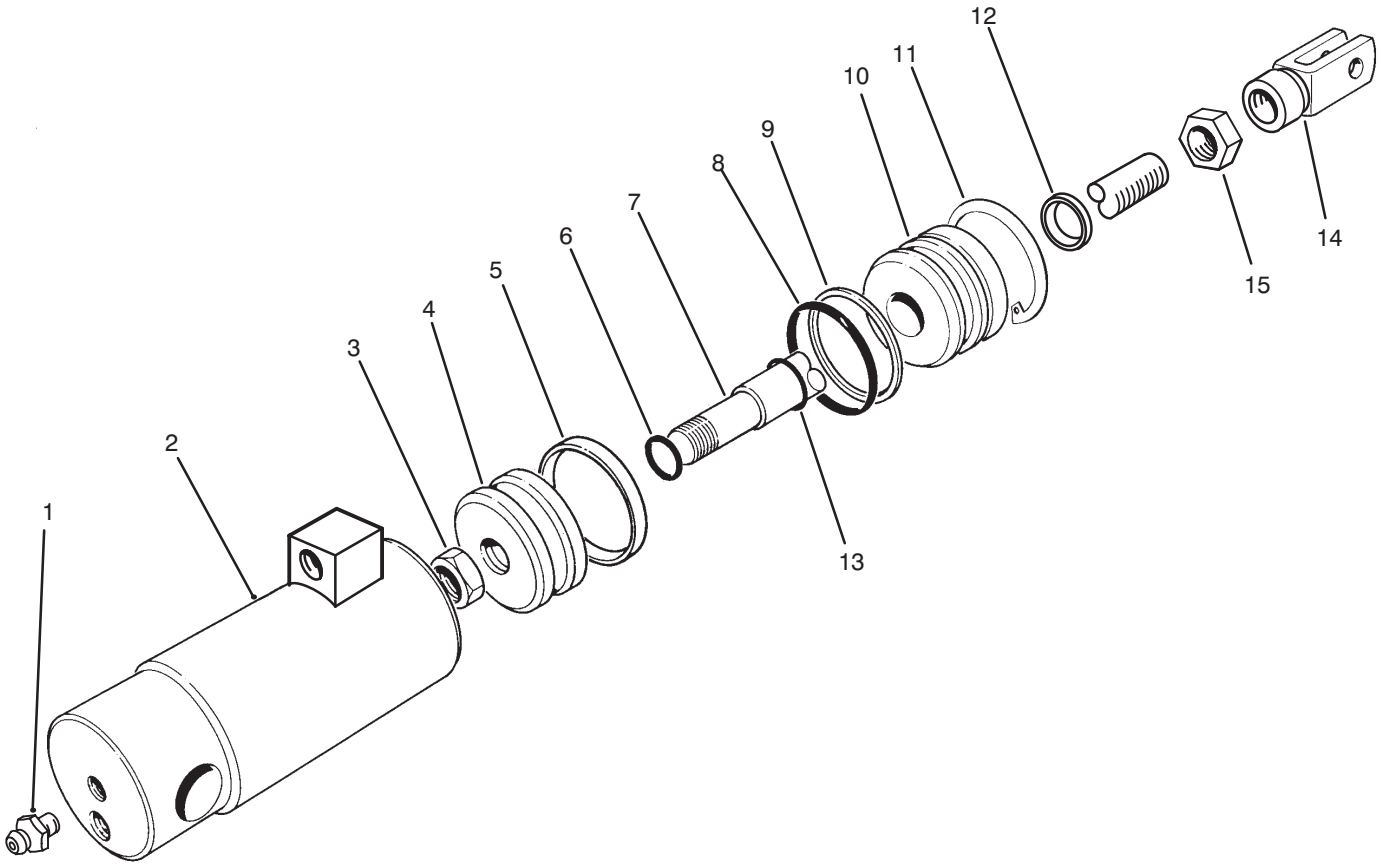


T—0642B

FOOT PEDALS AND ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
87	27—2830	Decal — Brake, Parking	1
88	56—7970	Clamp — Tube	2
89	32141—111	Nut — Lock, Flange Hd.	1
90	3229—22	Bolt — Carriage	2
91	83—0140	Pedal — Foot	1
92	321—23	Screw — Cap, Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
93	88—9630	Bracket — Lift, Pivot RH	1
94	49—6110	Guard — Rod, Transfer	1
95	3234—1	Screw — Hex. Flange Hd.	4
96	27—2320	Bearing — Side Flange	2
97	3290—357	Nut — Lock	1
98	83—2590	Bolt — Shoulder	1



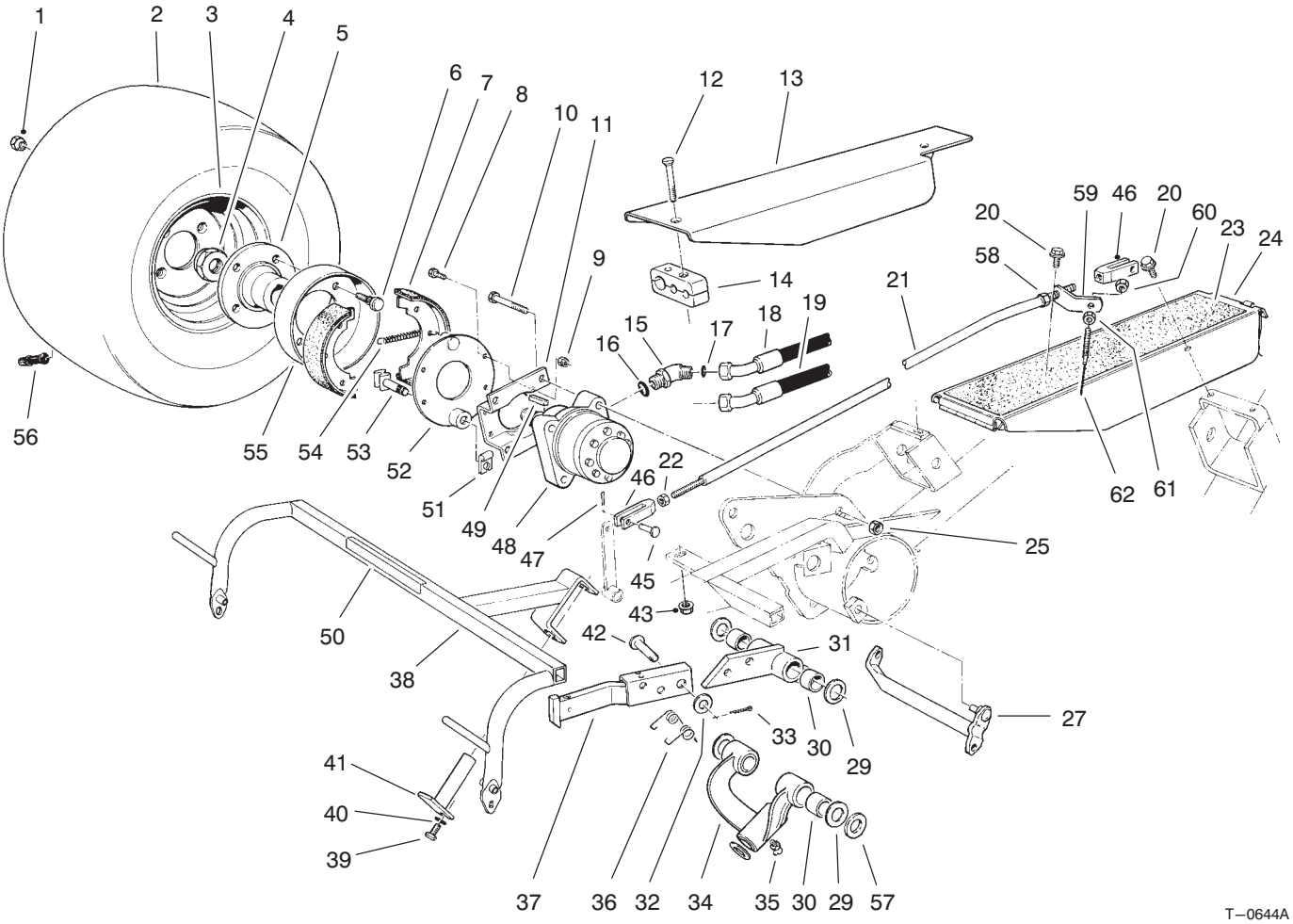
T–1373

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	1
		O–Ring	1
7	76–1860	Shaft	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



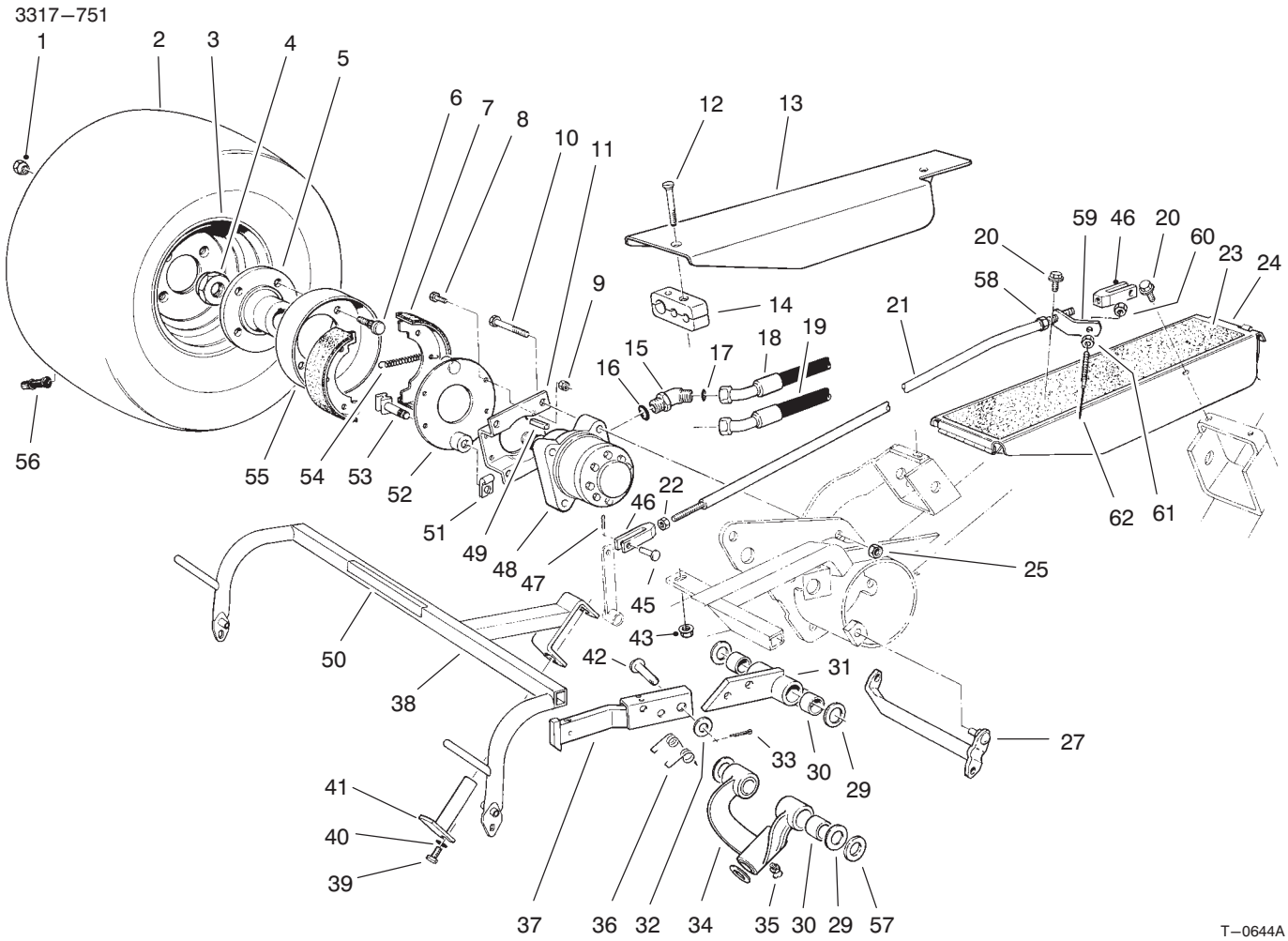
T–0644A

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 (Optional)	2
*	232–37	Tube – Inner (Optional)	2
*	62–2580	Spacer (Optional) (For use with 231–124)	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	3296–16	Nut – Lock	8
10	325–11	Screw – Cap, Hex. Hd.	8
11	84–2000	Bracket – Brake	4
12	32108–100	Screw – Flat Head	3
13	49–5450	Plate – Cover	1
14	57–6140	Clamp – Tube, Side	4
15	340–14	Fitting – Hydraulic (Incl. Ref. #16 & 17)	4
16	237–80	O–Ring	4
17	237–65	O–Ring	4
18	70–8600	Hose – Hyd. Upper, RH	1
*	70–8610	Hose – Hyd. Upper, LH	1
19	83–2460	Hose – Hyd. Lower, RH	1
*	70–7150	Hose – Hyd. Lower, LH	1

Ref. No.	Part No.	Description	No. Used
20	3234–13	Screw – Hex. Flange Hd.	4
21	49–5430	Rod – Control	1
22	3220–2	Nut – Jam	1
23	10–8220	Pad – Tool Box	1
24	49–5410	Box – Tool	1
25	3296–23	Nut – Lock	8
27	71–1510	Lever – Brake	1
29	10–8110	Washer – Thrust	6
30	3–0348	Bushing – Sleeve	6
31	62–2440	Lift Arm Assembly RH (Incl. Ref. #30)	1
32	3256–26	Washer – Flat	1
33	3272–12	Pin – Cotter	1
34	10–7820	Pivot Hinge Assembly	1
35	302–60	Fitting – Grease	1
36	57–7650	Spring – Torsion	1
37	62–2420	Bar – RH Arm, Lift	1
38	92–9177	Frame – Pull, RH	1
39	322–1	Screw – Cap, Hex. Hd.	1
40	3256–23	Washer – Plain	1
41	10–6090	Pin – Pivot	1
42	63–8750	Pin – Pivot	1
43	3296–16	Nut – Lock	3
45	283–1	Pin – Clevis	2
46	282–2	Yoke	2
47	3272–6	Pin – Cotter	2

*Not Illustrated

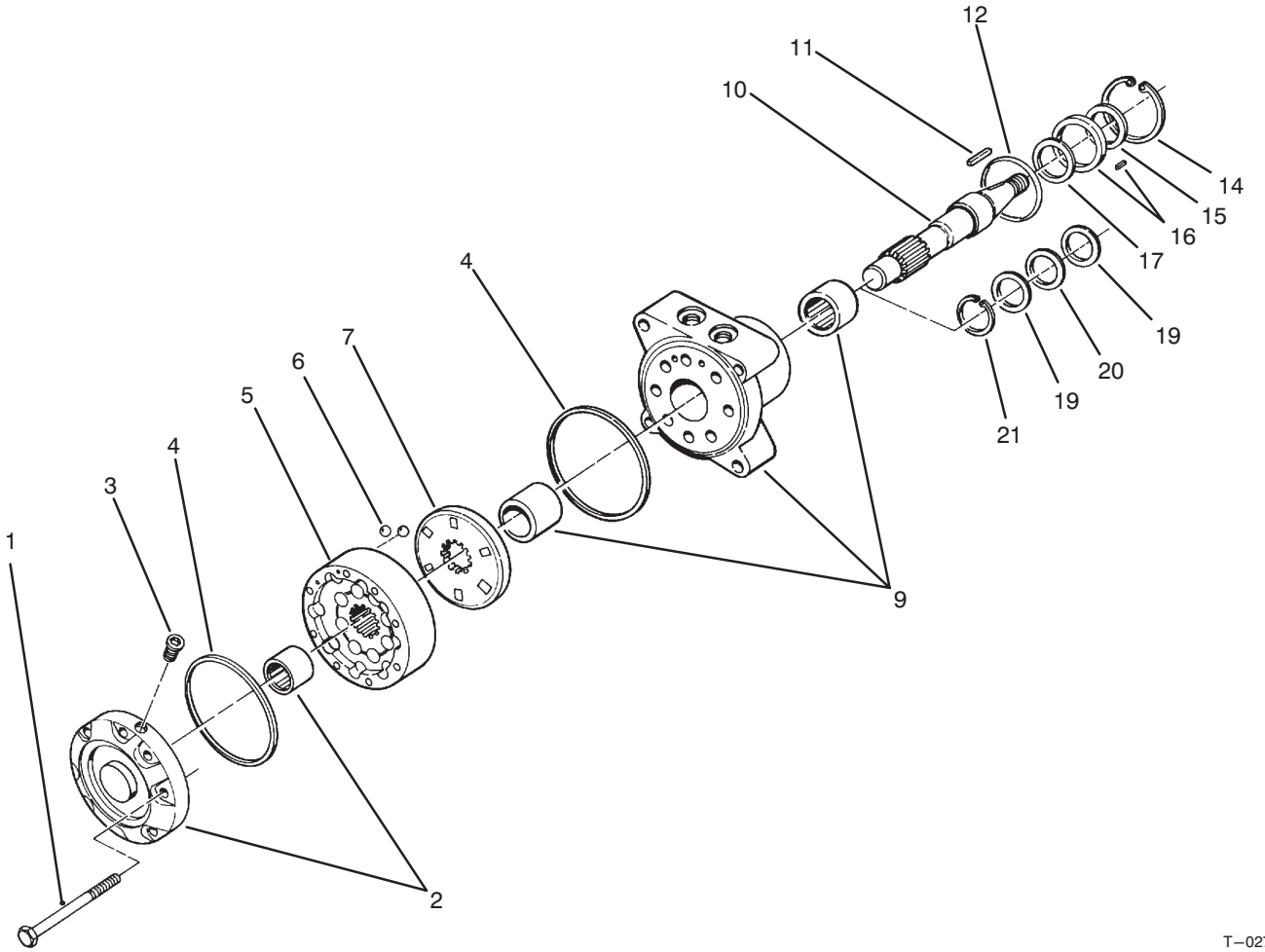


WHEEL AND BRAKE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
48	66–5292	Motor – Hydraulic (Incl. Ref. #49)	2
49	65–4640	Key – Square	2
50	62–5070	Decal – Danger	1
51	70–9850	Clip	2
52	70–9870	Plate – Support, Brake	2
53	70–9860	Cam – Brake	2
54	70–9880	Spring – Extension	4
55	10–6820	Brake Drum Assembly (Incl. Ref. #5 & 6)	2

Ref. No.	Part No.	Description	No. Used
56	232–24	Valve Stem & Cap	2
57	5–1226	Washer – Shim	2
58	3219–2	Nut – Full	1
59	93–9936	Bracket – Return, Traction	1
60	3296–29	Nut – Lock	1
61	3217–6	Nut – Full	1
62	93–9937	Asm. – Cable, Traction	1

3317–751

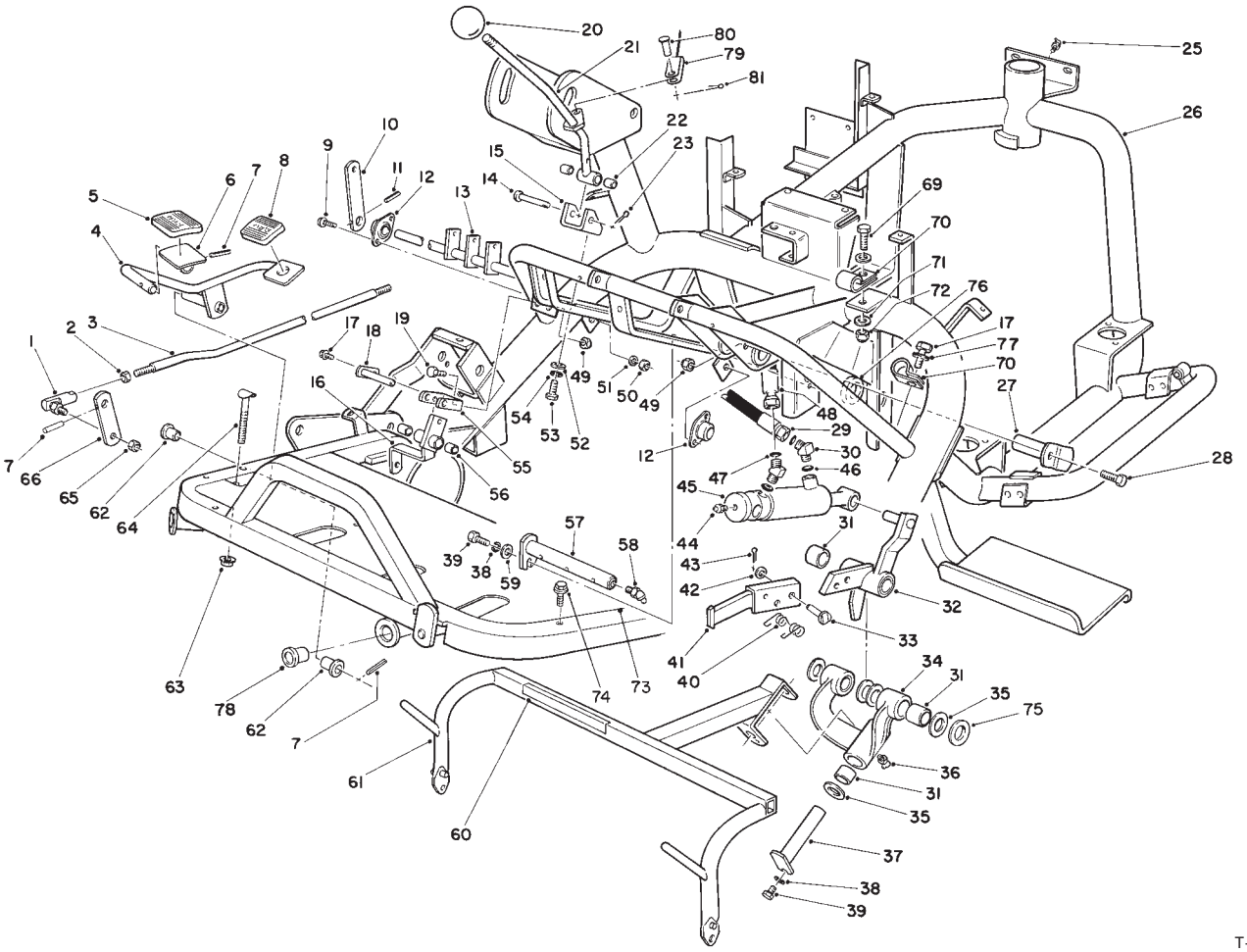


T–0274

HYDRAULIC DRIVE MOTOR NO. 66–5292

Ref. No.	Part No.	Description	No. Used
1	70–8160	Screw – Cap, Hex. Hd.	8
2		Cover & Bearing Assembly	1
3	65–4560	Plug – Hex. (Hollow)	1
4	65–4570	Seal – Square Ring	2
5	70–8180	IGR Assembly	1
6	65–4550	Valve – Ball, Check	2
7	70–8150	Plate – Valve	1
9	70–8140	Body & Bearing Assembly (Incl. Ref. #2)	1
10	70–8190	Shaft	1
11	65–4640	Key – Square	1
12	65–4620	O–Ring	1
13	65–4650	Nut – Slotted	1
14	65–4500	Seal – Snap Ring	1
†15		Seal – Dust	1
†16		Retainer – Pin	1
†17		Seal – Lip	1
*	65–4690	Seal/Retainer Assembly (Incl. Ref. #15–17)	1
19	65–4600	Washer – Thrust	2
20	65–4610	Bearing – Thrust	1
21	70–8170	Ring – Snap	1
*	65–4700	Body Seal Kit (Incl. Ref. #4, 12 & 15–17)	1

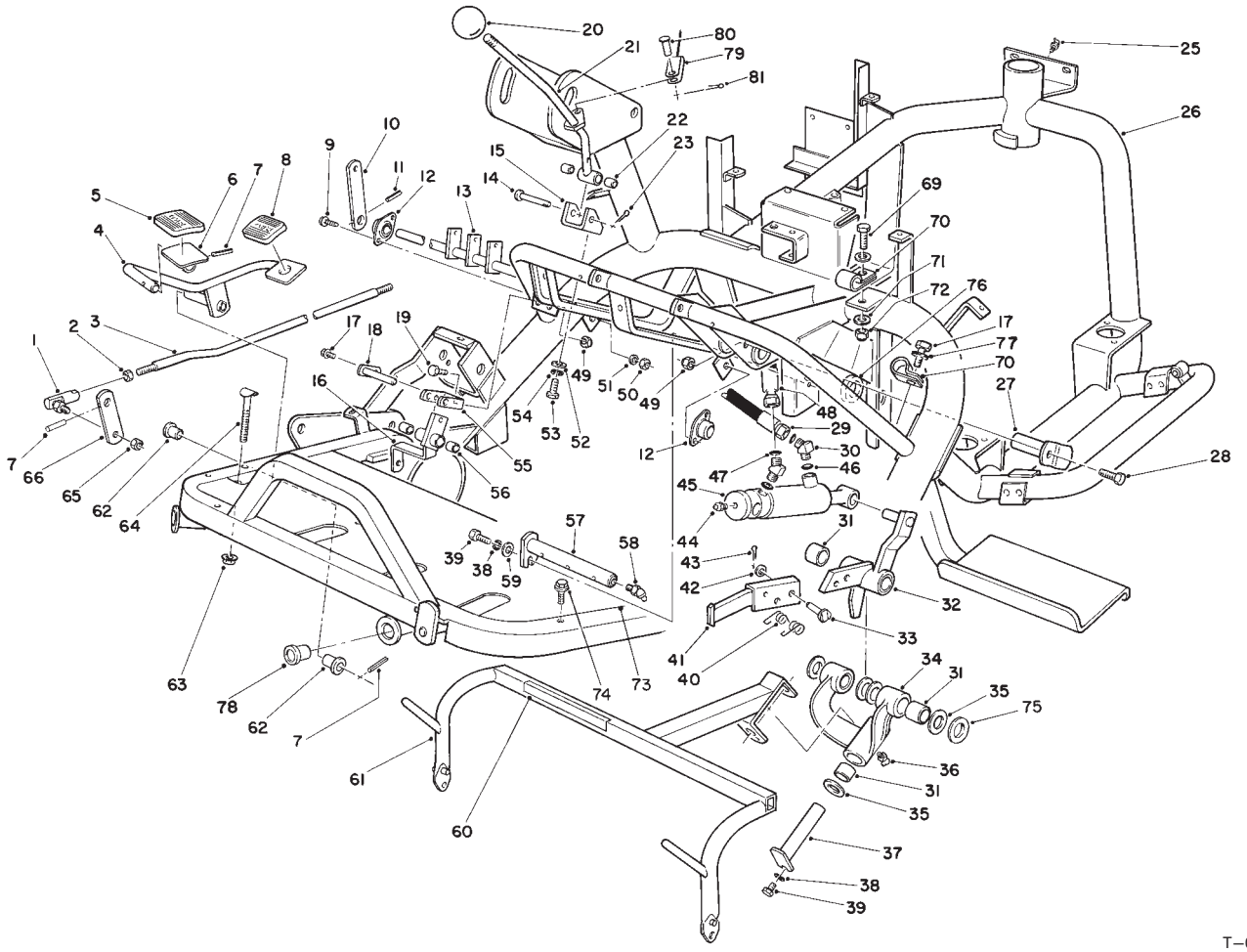
*Not Illustrated
†Not available from Toro as a replacement part.



FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	2411–32	Joint – Ball	2
2	3220–2	Nut – Jam	2
3	49–6320	Rod – Control, Traction	1
4	83–0540	Pedal – Traction	1
5	49–6470	Pad – Pedal Forward	1
6	49–6440	Pedal – Accelerator	1
7	32121–45	Pin–Roll	2
8	49–6430	Pad – Pedal Reverse	1
9	3234–1	Screw – Hex. Flange Hd.	4
10	47–5320	Lever – Cutting Control	1
11	32121–6	Pin – Roll	1
12	27–2320	Bearing – Side Flange	2
13	44–0870	Camshaft – Rear	1
14	283–57	Pin – Clevis	1
15	49–6220	Bracket – Control Arm	1
16	49–6260	Traction Pivot Tube Assy. (Incl. Ref. #56)	1
17	12–3270	Screw – Hex. Flange Hd.	2
18	49–6290	Shaft – Pivot, Traction	1
19	322–5	Screw – Cap, Hex. Hd.	1
20	233–48	Knob	1
21	93–9934	Handle – Traction (Incl. Ref. #22)	1
22	256–251	Bushing	2
23	3272–4	Pin – Cotter	1
25	302–5	Fitting – Grease	1

Ref. No.	Part No.	Description	No. Used
26	92–1193	Frame (Incl. Ref. #25 & 62)	1
27	68–5560	Pin – Cylinder	1
28	322–3	Screw – Cap, Hex. Hd.	1
29	58–5830	Hose – Hydraulic	1
30	340–103	Fitting – Hydraulic (Incl. Ref. #46 & 47)	2
31	3–0348	Bushing – Sleeve	6
32	68–5380	Center Lift Arm Assembly (Incl. Ref. #31)	1
33	63–8750	Pin – Pivot	1
34	10–7820	Pivot Hinge Assembly	1
35	10–8110	Washer – Thrust	6
36	302–60	Fitting – Grease	1
37	10–6090	Pin – Pivot	1
38	3256–23	Washer – Plain	2
39	322–1	Screw – Cap, Hex. Hd.	2
40	57–7650	Spring – Torsion	1
41	62–2420	Bar – Arm, Lift	1
42	3256–26	Washer – Flat	1
43	3272–11	Pin – Cotter	1
44	302–2	Fitting – Grease	1
45	83–7230	Cylinder – Lift, Rear	1
46	237–78	O–Ring	2
47	237–35	O–Ring	2
48	88–9700	Hose – Hydraulic	1

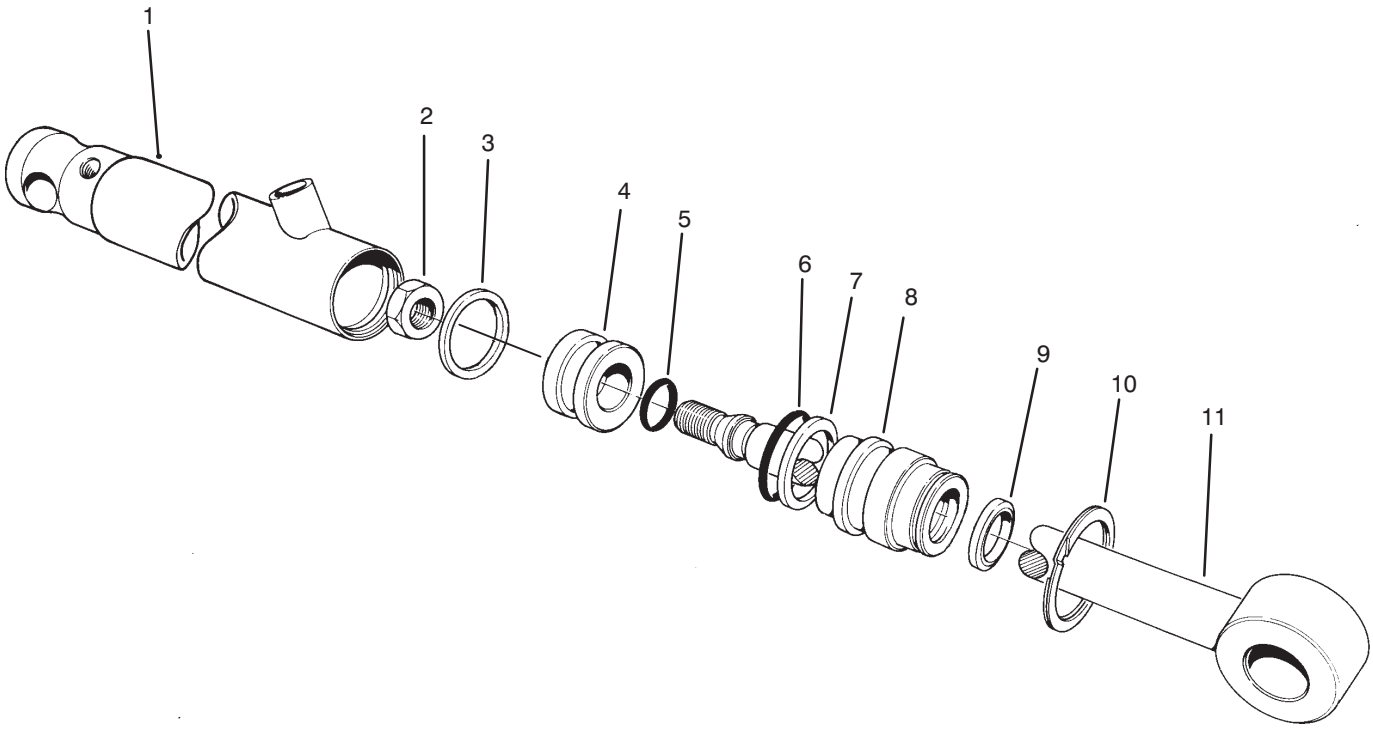


T—0641A

FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
49	3296—29	Nut — Lock	2
50	3296—59	Nut — Lock	4
51	3256—24	Washer — Flat	4
52	3256—3	Washer — Flat	2
53	3211—1	Screw — Cap, Hex. Hd.	2
54	3254—6	Washer — Lock	2
55	49—6250	Bracket — Pivot, Traction	1
56	256—2	Bushing — Sleeve	2
57	27—2550	Pin — Hinge	1
58	302—11	Fitting — Grease	1
59	3256—23	Washer — Flat	1
60	62—5070	Decal — Danger	1
61	86—9820	Frame — Pull, Rear	1
62	256—219	Bushing — Flange	2
63	32128—20	Nut — Lock, Flange	1
64	17—9420	Screw — Stop, Accelerator	1

Ref. No.	Part No.	Description	No. Used
65	3296—4	Nut — Lock	2
66	92—1194	Plate — Traction Pivot	1
69	321—3	Screw — Cap, Hex. Hd.	1
70	2412—41	Clamp — R	2
71	3256—1	Washer — Flat	2
72	3296—16	Nut — Lock	1
73	88—6900	Plate — Footrest	1
74	32144—14	Screw — Hex. Flange Hd.	7
75	5—1228	Washer — Shim	2
76	27—2540	Spacer — Hub	1
77	3256—22	Washer — Flat	1
78	83—1700	Bushing — Flange	3
79	93—9937	Asm. — Cable, Traction	1
80	283—62	Pin — Clevis	1
81	3272—10	Pin — Cotter	1



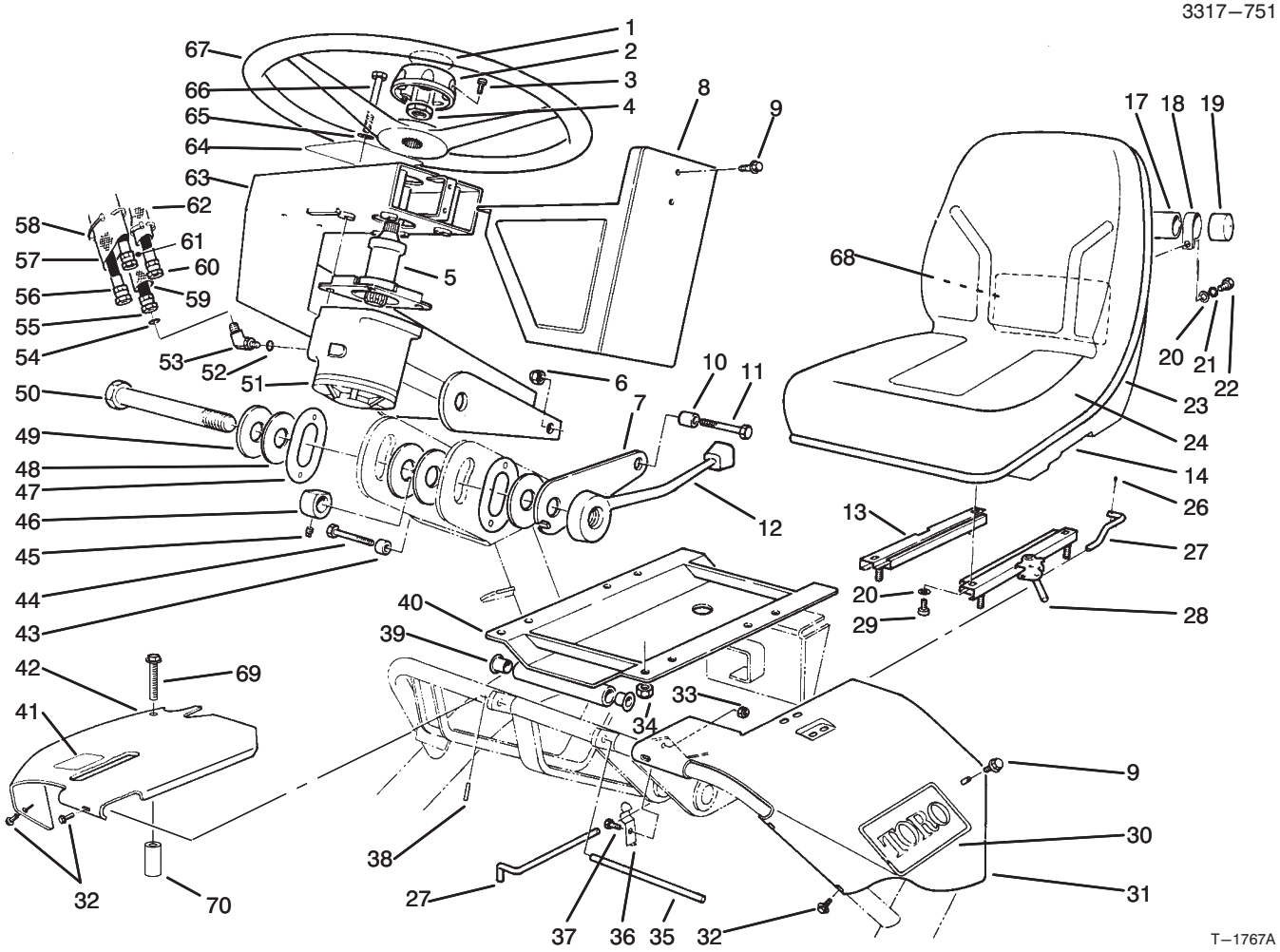
T–0640

REAR HYDRAULIC CYLINDER NO. 83–7230

Ref. No.	Part No.	Description	No. Used
1	70–8130	Barrel	1
2	32152–10	Nut	2
3		Uniring	1
4	70–2780	Piston	1
5		O–Ring	1
6		O–Ring	1
7		Back–up	1

Ref. No.	Part No.	Description	No. Used
8	70–2770	Head	
9		Seal – Dust	1
10	43–5220	Ring – Retaining	1
11	43–5230	Shaft/Clevis	1
*	86–5360	Seal Repair Kit (Incl. Ref. #3, 5–7 & 9)	1

*Not Illustrated

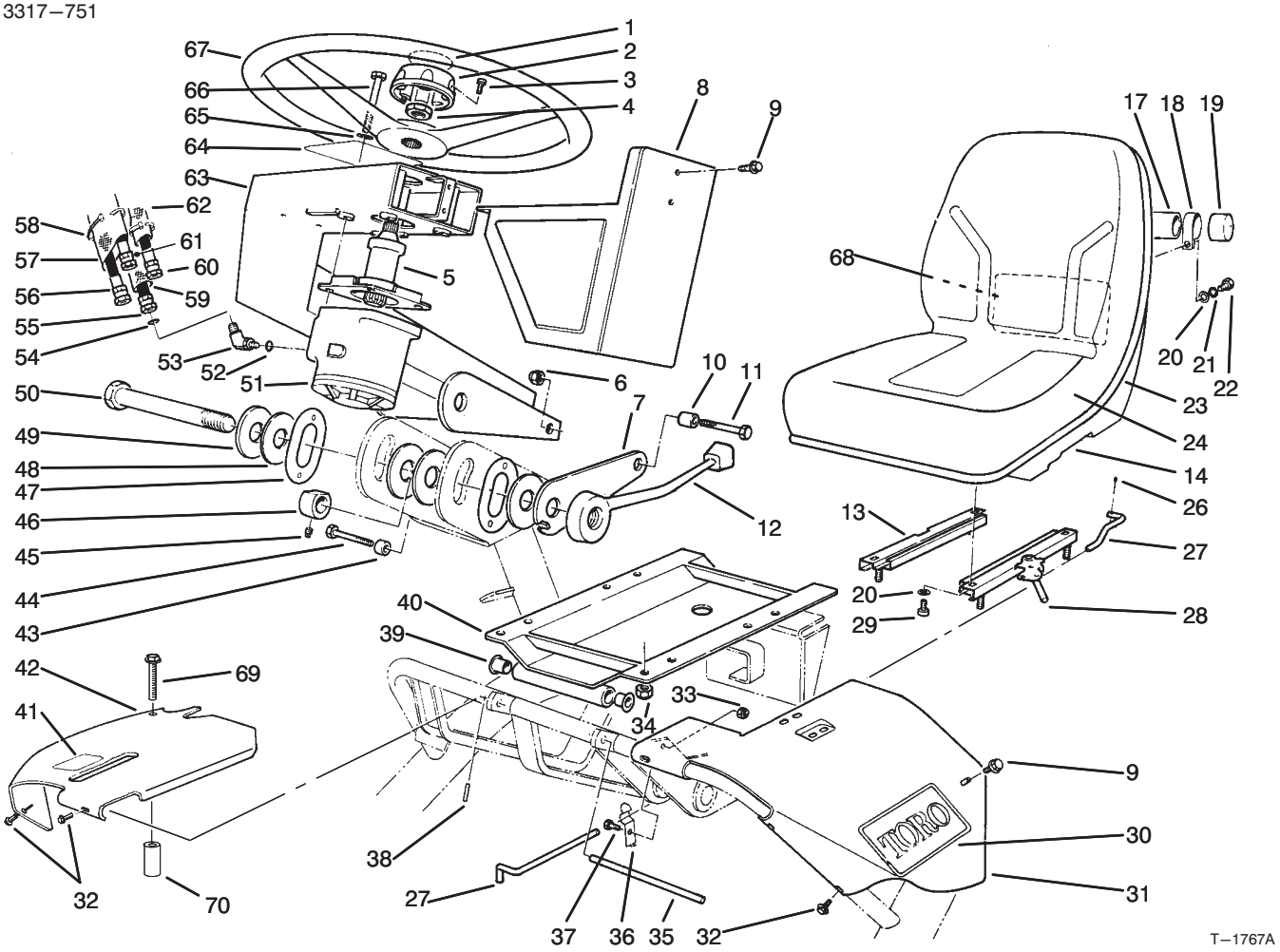


STEERING & SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68–5370	Decal – Steering Wheel	1
2	68–5140	Cap – Steering Wheel (Incl. Ref. #3)	1
3	32144–21	Screw – Fillister Head	1
4	47–6990	Nut – Lock	1
5	68–5170	Column – Steering	1
6	3296–25	Nut – Lock	2
7	68–5480	Plate – Arm, Steering	1
8	68–5120	Cover – Valve, Steering	1
9	12–3270	Screw – Thread Forming	6
10	68–5450	Spacer – Arm, Pivot LH	1
11	325–8	Screw – Cap, Hex. Hd.	1
12	68–5300	Lever – Arm, Lock	1
13	51–0780	Slide – Seat	1
14	92–6534	Shell – Seat	1
17	65–5871	Tube	1
18	2412–102	Clamp–R	2
19	65–5890	Cap – Tube	2
20	3256–23	Washer – Flat	6
21	3253–4	Washer – Lock	2
22	322–2	Screw – Cap, Hex. Hd.	2
23	351–78	Edging	2
24	92–6533	Kit – Cushion	1
26	3272–11	Pin – Cotter	1
27	68–5100	Rod – Seat	1

Ref. No.	Part No.	Description	No. Used
28	51–0790	Adjuster – Seat	1
29	3274–12	Screw – Cap, Hex. Hd.	4
30	62–5550	Decal – TORO	2
31	68–4690	Shield – Valve Cover, LH	1
32	32104–76	Screw – Self Tapping	5
33	3296–16	Nut – Lock	1
34	3296–29	Nut – Lock	4
35	49–5880	Shaft – Support, Seat	1
36	68–5310	Clip – Seat	1
37	321–3	Screw – Cap, Hex. Hd.	1
38	32121–45	Pin – Roll	1
39	256–155	Bushing	2
40	49–5840	Support – Seat (Incl. Ref. #39)	1
41	51–0010	Decal – Traction	1
42	68–4680	Shield – Valve Cover, RH	1
43	68–5440	Spacer – Arm, Pivot RH	1
44	325–7	Screw – Cap, Hex. Hd.	1
45	3242–1	Screw – Cap, Hex. Hd.	1
46	68–5420	Hub – Locking	1
47	68–5430	Plate – Wear	2
48	31–0390	Washer – Friction	4
49	68–5290	Washer – Arm, Steering	1
50	3216–16	Screw – Cap, Hex. Hd.	1
51	92–8690	Steering Valve Assembly	1

3317−751

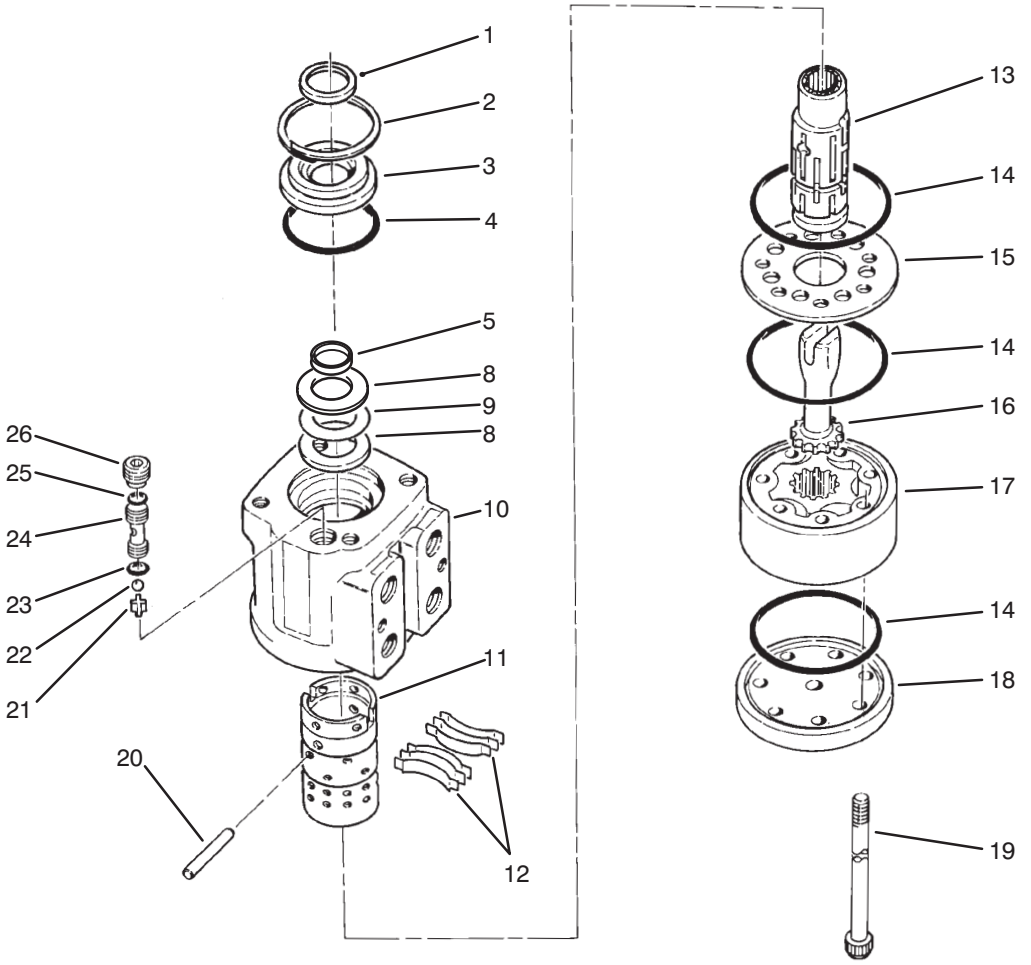


STEERING & SEAT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	237−42	O−Ring	4
53	340−137	Fitting − Hydraulic (Incl. Ref. #52 & 54)	4
54	237−35	O−Ring	4
55	68−5840	Hose − Pump, Steering (Incl. Ref. #58 & 59)	1
56	68−5750	Hose − Steering, Cyl. Base (Incl. Ref. #57 & 58)	1
57	56−7983	Sleeve − Protective	1
58	3290−378	Tie − Cable	6
59	70−8445	Sleeve − Protective	1
60	68−5740	Hose Assembly (Incl. Ref. #58 & 60)	1
61	68−5760	Hose − Steering, Cyl. Rod (Incl. Ref. #57 & 58)	1

Ref. No.	Part No.	Description	No. Used
62	70−8446	Sleeve − Protective	1
63	68−4700	Arm − Steering	1
64	75−9380	Decal − Caution	1
65	3256−24	Washer − Flat	4
66	323−20	Screw − Cap, Hex. Hd.	4
67	68−5130	Wheel − Steering (Incl. Ref. #2 & 3)	1
68	92−1196	Decal − Service	1
69	94−2691	Screw − HWH	1
70	76−2660	Tube − Spacer	1
*	92−1180	Seat Assembly (Incl. Ref. #14, 23 & 24)	1

*Not Illustrated



T—1442

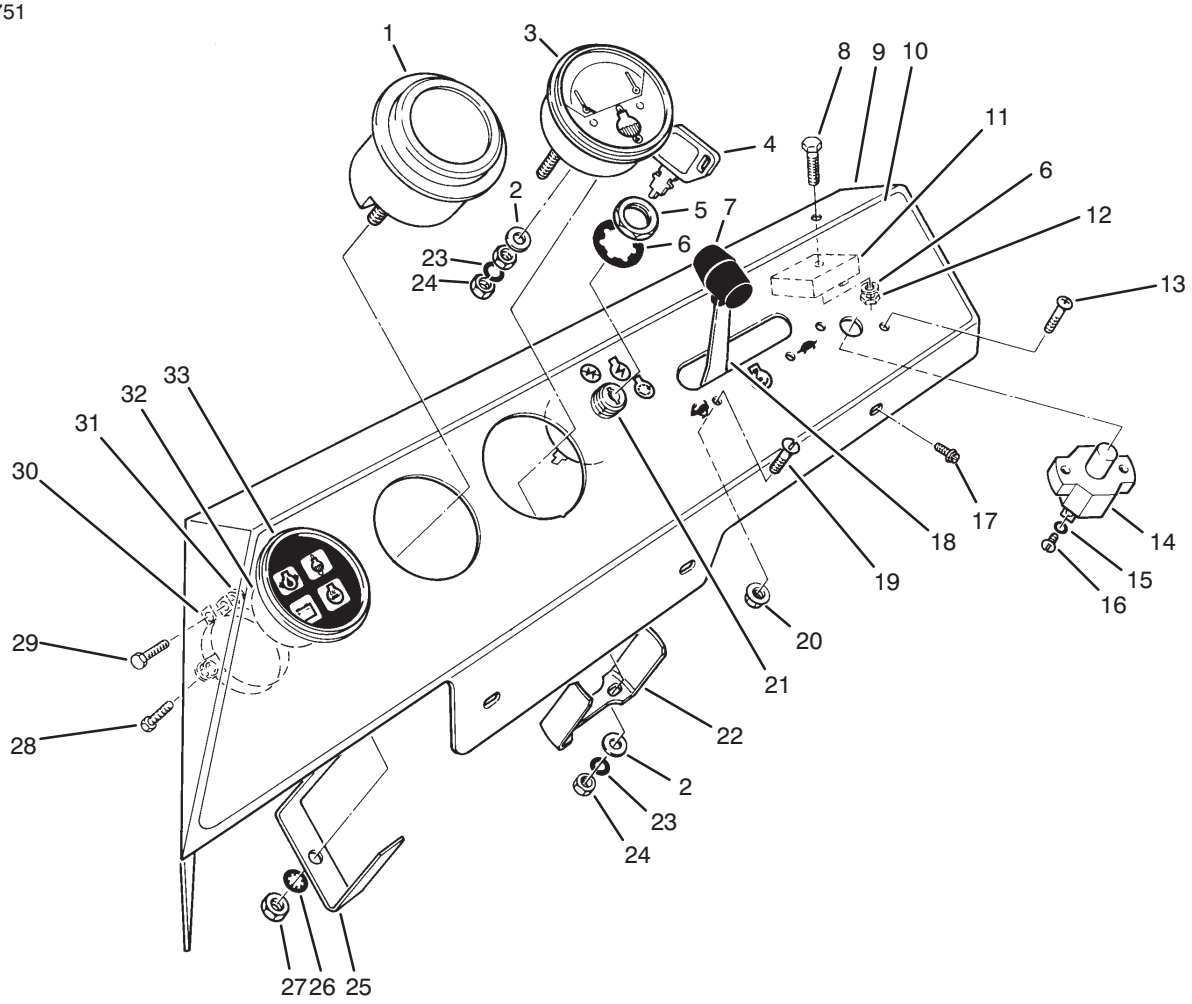
POWER STEERING VALVE NO. 92—8690

Ref. No.	Part No.	Description	No. Used
†1		Seal — Dust	1
2	52—9230	Ring — Retaining	1
3	92—8691	Bushing — Seal Gland	1
†4		O—Ring	1
†5		Seal — One Piece	1
8	59—6730	Race — Bearing	2
9	59—6740	Bearing — Needle Thrust	1
†10		Housing	1
†11		Sleeve — Control	1
12	83—1860	Centering Spring Kit	1
†13		Spool — Control	1
†14		O—Ring	3
15	92—8697	Plate — Wear	1
16	70—8250	Drive	1
17	83—1870	Gerotor	1

Ref. No.	Part No.	Description	No. Used
18	92—8694	Cap — End	1
19	92—8696	Screw — Torx Hd.	7
20	59—6830	Centering Pin Kit	1
21	52—9290	Retainer — Ball Check	1
22	52—9280	Ball — Check	1
†23		O—Ring	1
24	52—9270	Seat — Ball Check	1
†25		O—Ring	1
26	52—9260	Screw — Set	1
*	83—1880	Control Parts Assembly (Incl. Ref. #10—13 & 20)	1
*	92—8695	Seal Kit (Incl. Ref. #1, 4, 5, 14, 23 & 25)	1

*Not Illustrated
†Not Serviced Separately

3317–751



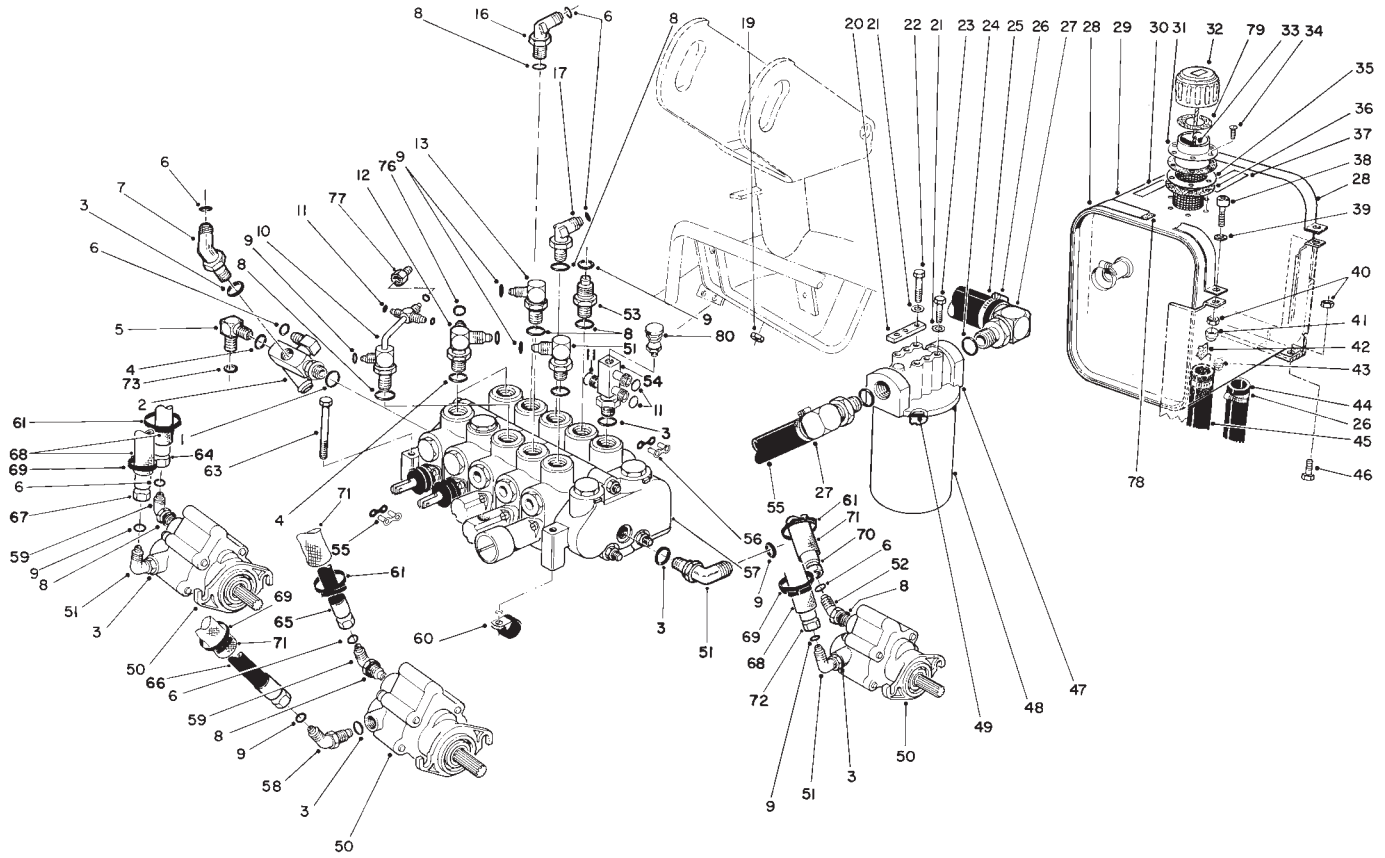
T–0814

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66–2950	Hour Meter	1
2	3256–14	Washer – Flat	4
3	63–7430	Gauge – Temperature	1
4	63–8360	Key	1
5	218–446	Nut	1
6	218–447	Washer – Lock	1
7	233–50	Knob – Throttle	1
8	321–8	Screw – Cap Hex. Hd.	1
9	92–2544	Panel – Instrument	1
10	92–2529	Decal– Panel, Instrument	1
11	92–2538	Timer – Glow Plug	1
12	3296–16	Nut – Lock	1
13	32122–53	Screw – Phillips Hd.	2
14	68–5210	Breaker – Circuit,15A	1
15	3253–15	Washer – Lock	2
16	3250–28	Screw – Cap, Round Hd.	2
17	32104–76	Screw – Acorn Washer Hd.	6
18	68–9931	Control Throttle (Inc. Ref. #7)	1

Ref. No.	Part No.	Description	No. Used
19	32105–8	Screw – Round Head	2
20	32149–7	Nut – Lock	2
21	27–2360	Switch – Key (Incl. Ref. #5 & 6)	1
22	39–9600	Clamp – Mounting	1
23	3253–12	Washer – Lock	5
24	3256–49	Nut – Lock	6
25	218–515	Bracket – Mounting	1
26	3254–1	Washer – Lock, Int. Tooth	1
27	3217–26	Nut	1
28	32144–1	Screw – Thread Forming	2
29	32105–1	Screw – Cap, Hex. Hd.	1
30	69–4780	Clamp Hose	1
31	3296–2	Nut – Lock	1
32	70–8200	Socket – Light	4
33	66–2960	Light – Cluster, Warning	1
*	219–17	Bulb – Light	4

*Not Illustrated

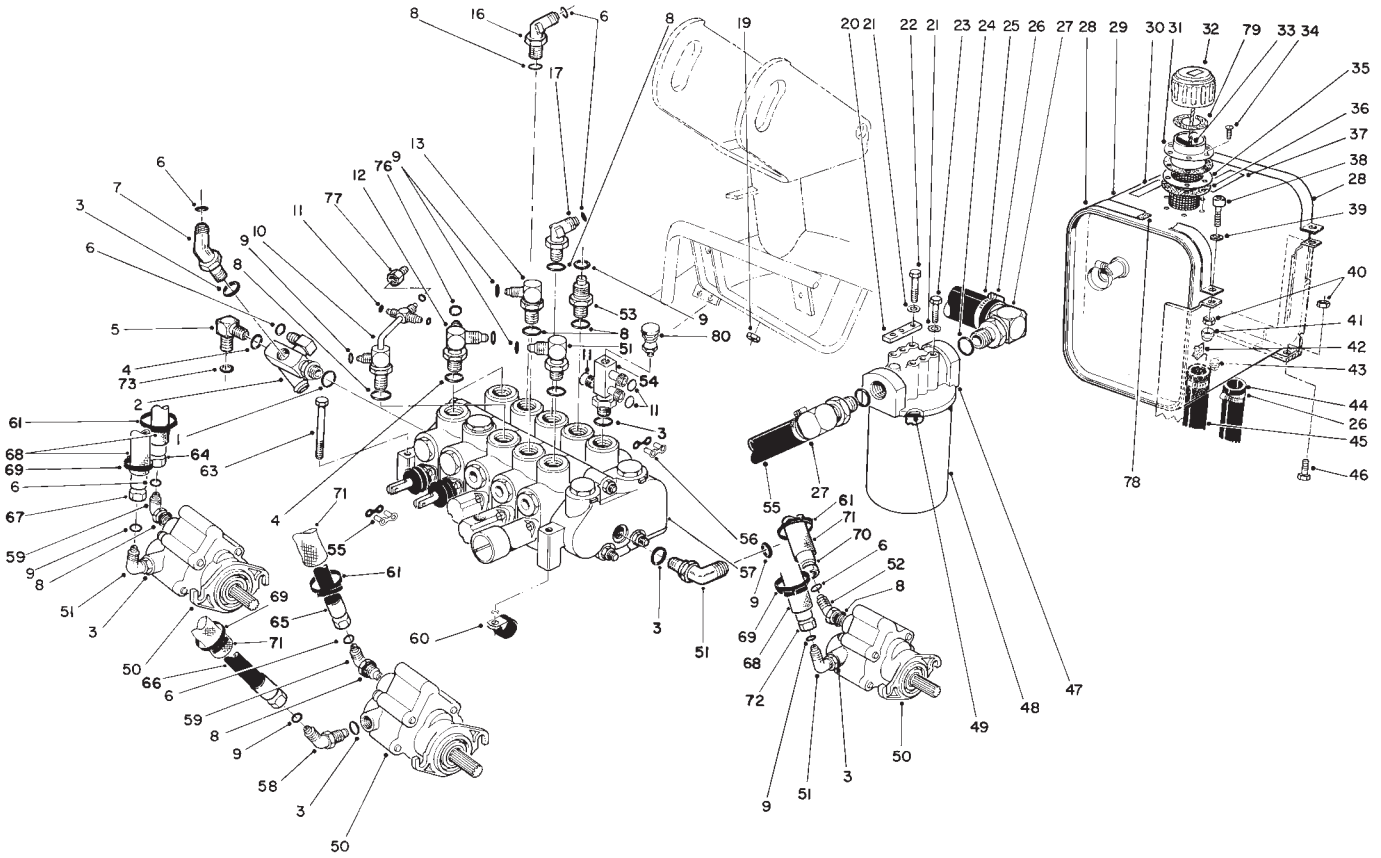


T–0643A

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237–81	O–Ring	1
2	68–5260	Orifice – Manifold Drain (Incl. Ref. #1 & 6)	1
3	237–42	O–Ring	9
4	237–80	O–Ring	3
5	340–16	Fitting – Hydraulic (Incl. Ref. #3 & 4)	1
6	237–30	O–Ring	7
7	340–96	Fitting – Hydraulic (Incl. Ref. #3 & 6)	1
8	237–79	O–Ring	8
9	237–22	O–Ring	3
10	63–4060	Tube Assembly (Incl. Ref. #8, 9 & 11)	1
11	237–21	O–Ring	7
12	63–4050	Fitting – Traction, Upper (Incl. Ref. #4 & 76)	2
13	340–18	Fitting – Hydraulic (Incl. Ref. #5 & 9)	1
16	340–11	Fitting – Hydraulic (Incl. Ref. #6 & 8)	1
17	340–101	Fitting – Hydraulic (Incl. Ref. #6 & 8)	1
19	32128–20	Nut – Lock, Flange Hd.	3
20	27–2380	Spacer – Mount, Filter	1
21	3256–23	Washer – Flat	2
22	322–4	Screw – Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
23	322–2	Screw – Cap, Hex. Hd.	2
24	237–101	O–Ring	2
25	68–5890	Hose – Return, Filter	1
26	2412–3	Clamp – Hose	8
27	353–564	Fitting – Hydraulic 90° (Incl. Ref. #24)	2
28	27–2400	Strap – Reservoir (Incl. Ref. #78)	2
29	55–8480	Reservoir – Hydraulic	1
30	58–6530	Decal – Oil	1
31	353–961	Adapter – Flange	1
32	62–2570	Cap – Breather (Incl. Ref. #31, 33, 36, 37 & 39)	1
33	353–962	Cap & Chain Assembly	1
34	32144–34	Screw	6
35	62–2610	Screen Assembly	1
36	353–963	Gasket	2
37	66–6840	Decal – Hot Surface	1
38	3274–19	Screw – Set	2
39	3256–22	Washer – Flat	2
40	3296–16	Nut – Lock	4
41	2410–66	Cap – Vinyl	1
42	27–2420	Felt – Angle	2
43	281–1	Plug – Oil	1
44	68–5860	Hose – Pump, Inlet LH	1
45	68–5870	Hose – Pump, Inlet RH	1



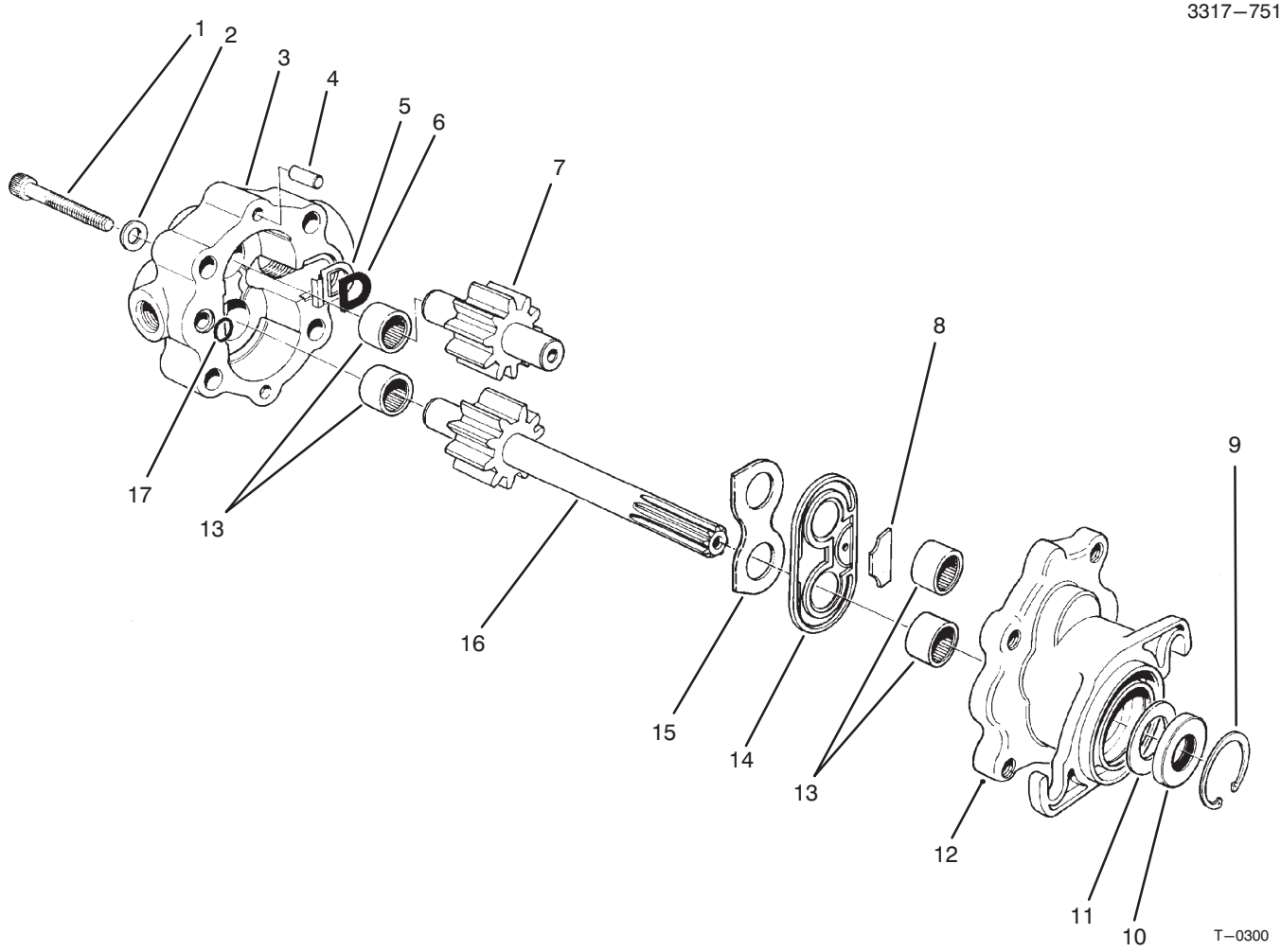
T–0643A

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
46	321–3	Screw – Cap, Hex. Hd.	2
47	44–5560	Head – Filter, Hydraulic	1
48	74–3570	Element – Filter (Incl. Ref. #49)	1
49	72–3850	Seal – Ring	1
50	70–9800	Motor – Reel	3
51	340–77	Fitting – Hydraulic (Incl. Ref. #3 & 9)	4
52	340–101	Fitting – Hydraulic (Incl. Ref. #6 & 8)	1
53	340–3	Fitting – Hydraulic (Incl. Ref. #8 & 9)	1
54	92–0587	Fitting – Hydraulic Valve (Incl. Ref. #3 & 11)	1
55	68–5880	Return Line – Manifold/Filter	1
56	57–6220	Link – Connector	5
57	84–2203	Control Valve Assembly	1
58	340–87	Fitting – Hydraulic (Incl. Ref. #3 & 9)	1
59	340–98	Fitting – Hydraulic (Incl. Ref. #6 & 8)	2
60	304–61	Clamp	1
61	93–9347	Clamp – Hose, Return	6
63	322–14	Screw – Cap, Hex. Hd.	3
64	63–3820	Hose – Return, RH (Incl. Ref. #68 & 69)	1

Ref. No.	Part No.	Description	No. Used
65	63–3830	Hose – Return, LH (Incl. Ref. #69 & 75)	1
66	63–3870	Hose – Pressure, LH (Incl. Ref. #69 & 74)	1
67	63–3810	Hose – Pressure, RH (Incl. Ref. #68 & 69)	1
68	56–7980	Sleeve – Protective	3
69	93–9346	Clamp – Hose, Pressure	6
70	63–3840	Hose – Return, Rear (Incl. Ref. #69 & 71)	1
71	56–7981	Sleeve – Protective	3
72	74–3830	Hose – Assembly (Incl. Ref. #68 & 69)	1
73	237–58	O–Ring	1
74	56–7986	Sleeve – Protective	1
75	56–7987	Sleeve – Protective	1
76	237–65	O–Ring	4
77	71–0990	Orifice – One Way	1
78	27–3030	Felt – Strap	2
79	76–1720	Gasket	1
80	92–0588	Bushing – Needle	1
*	88–9500	Needle Valve Assembly (Incl. Ref. #3, 11, 54 & 80)	1
*	44–2500	Dye – Hydrauulic Oil	1

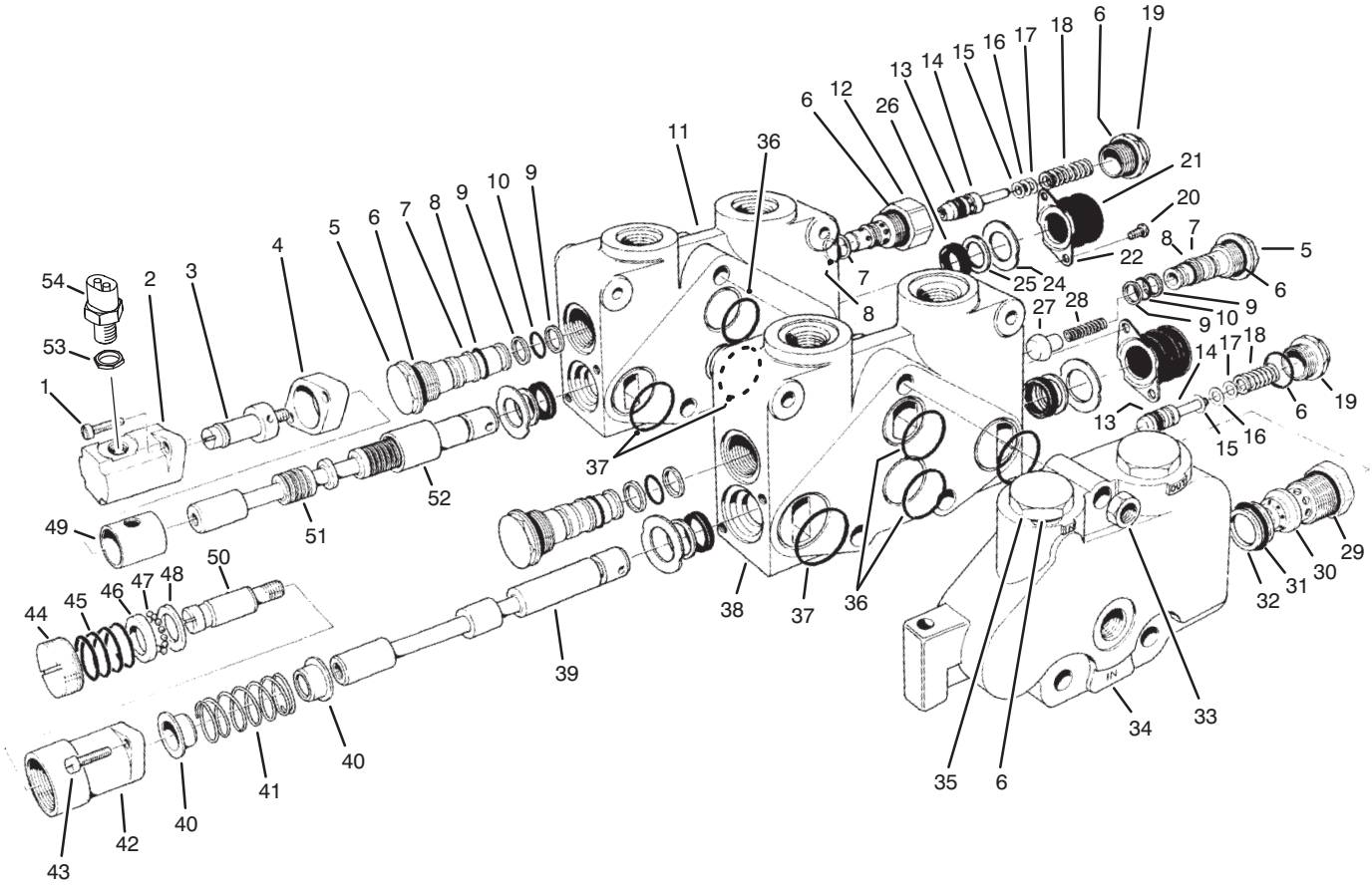
*Not Illustrated



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 (Incl. Ref. #13)	1
13	353–586	Bearing – Needle	4
14	353–594	Seal Assembly	1
15	353–595	Plate – Wear	1
16	353–592	Drive Shaft Assembly	1
17	353–596	O–Ring	1
*	72–4380	Seal Kit (Incl. Ref. #9–11)	1
*	72–4390	Repair Kit (Incl. Ref. #5, 6, 8–11, 14, 15 & 17)	
*†		Seal Installer	1
*†		Seal Protector	1

*Not Illustrated
†Special Tool for Installation



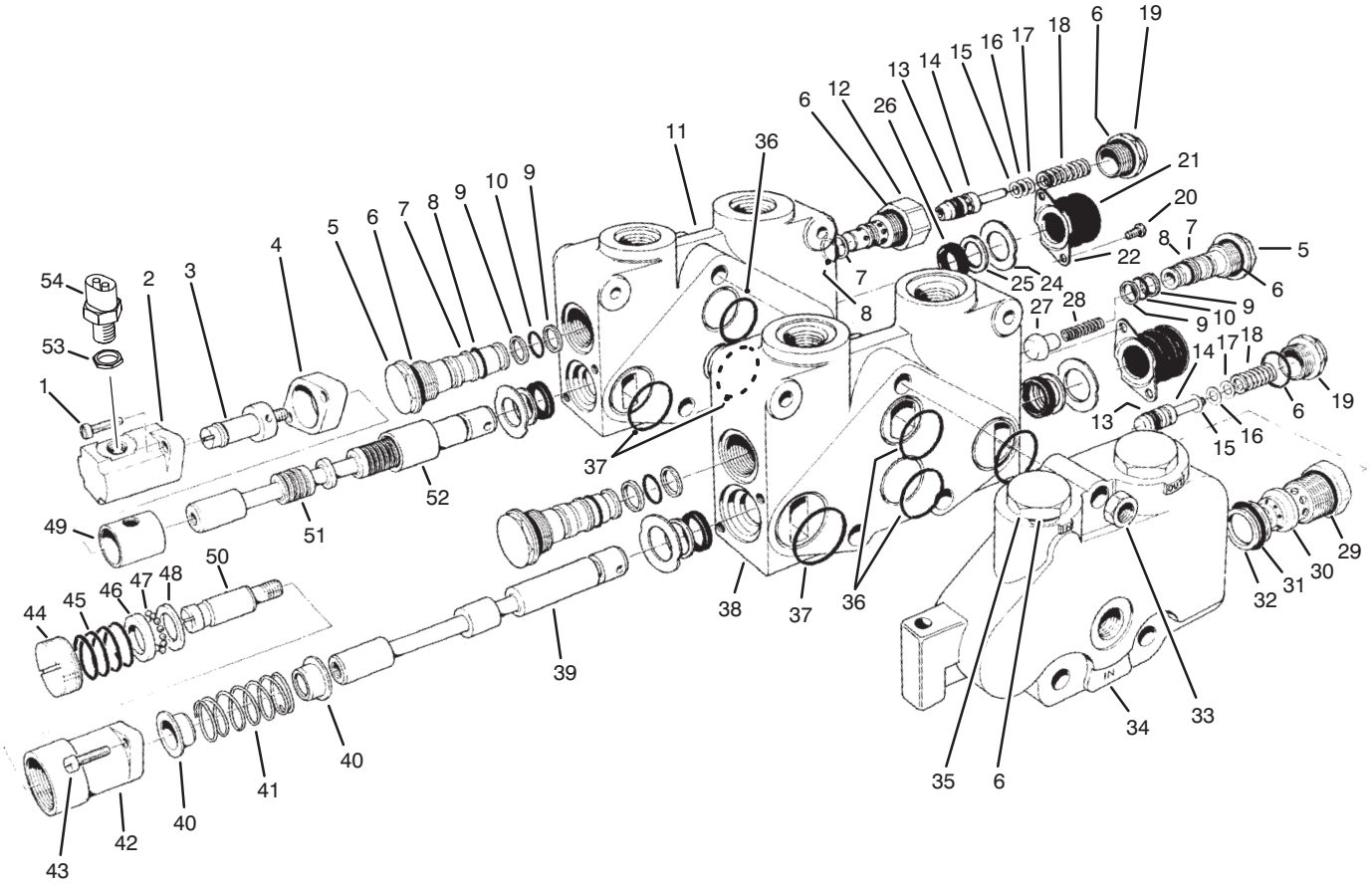
T–1318A

CONTROL VALVE ASSY. NO. 84–2203 (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	93–3651	Retainer – Boot	2
24	92–2547	Plate – Seal Retainer	4
25	92–2546	Wiper – Seal	4
26	353–957	Seal – Lip	4

Ref. No.	Part No.	Description	No. Used
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	92–3058	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
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

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



T—1318A

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

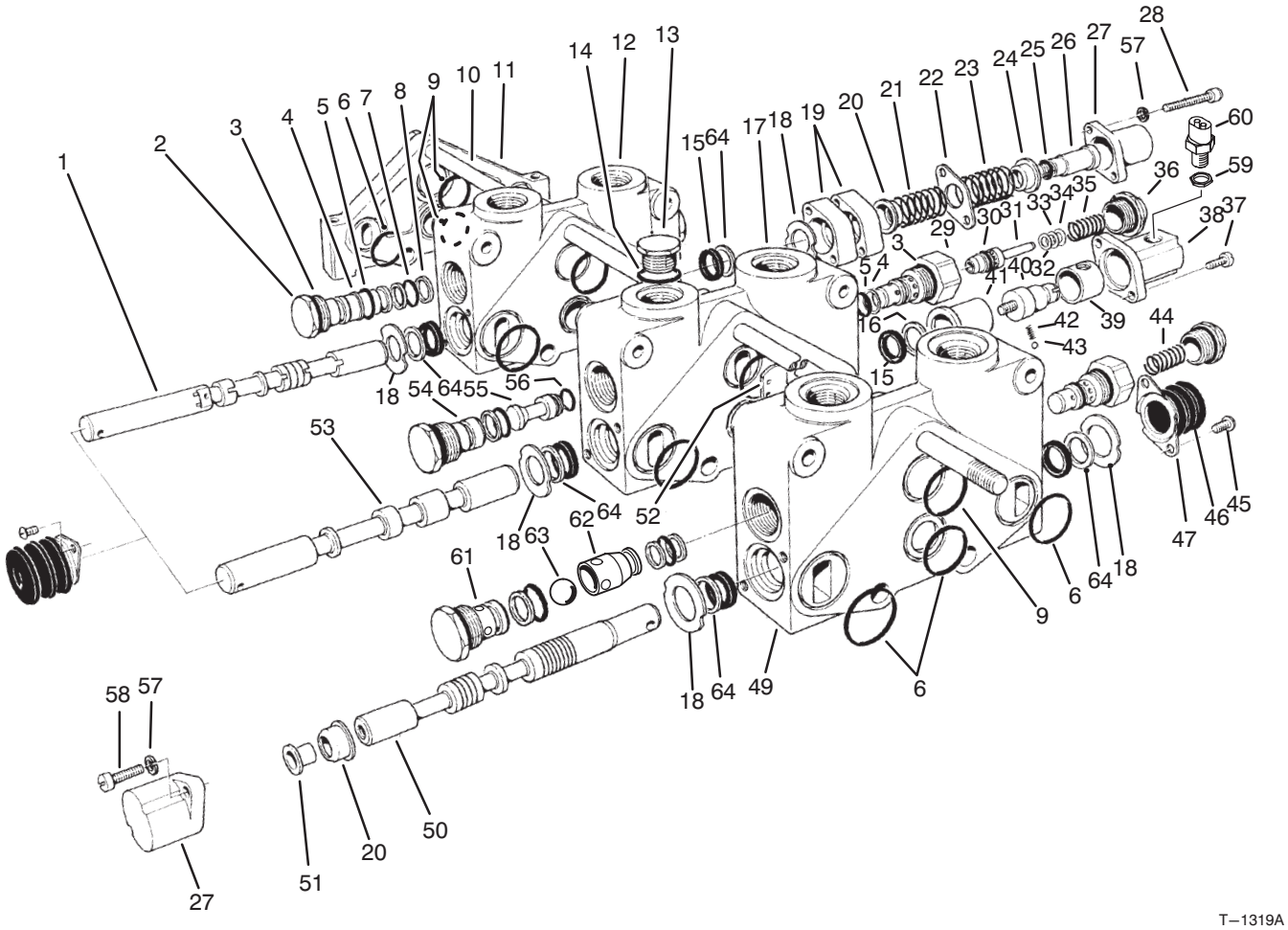
Ref. No.	Part No.	Description	No. Used
52	353—732	Sleeve — Detent	1
53	38—0410	Nut — Hex.	1
54	83—1890	Switch — Ball	1
*	353—766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13—19 & 29—32)	1
*	353—768	Section #1 Complete	1
*	353—837	Section #2 Complete	1
*	353—780	Positioner — R. Detent (Out) (Incl. Ref. #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
*	93—3652	Boot — Spool Assembly (Incl. Ref. #20—22)	2
*	353—835	Seals — Section Set (Incl. Ref. #36 & 37)	1
*	92—2548	Seals — Spool Single (Single End Set) (Incl. Ref. #24—26)	1
*	92—2545	Seals — Spool (Entire Valve Set)	1

*Not Illustrated

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

3317–751



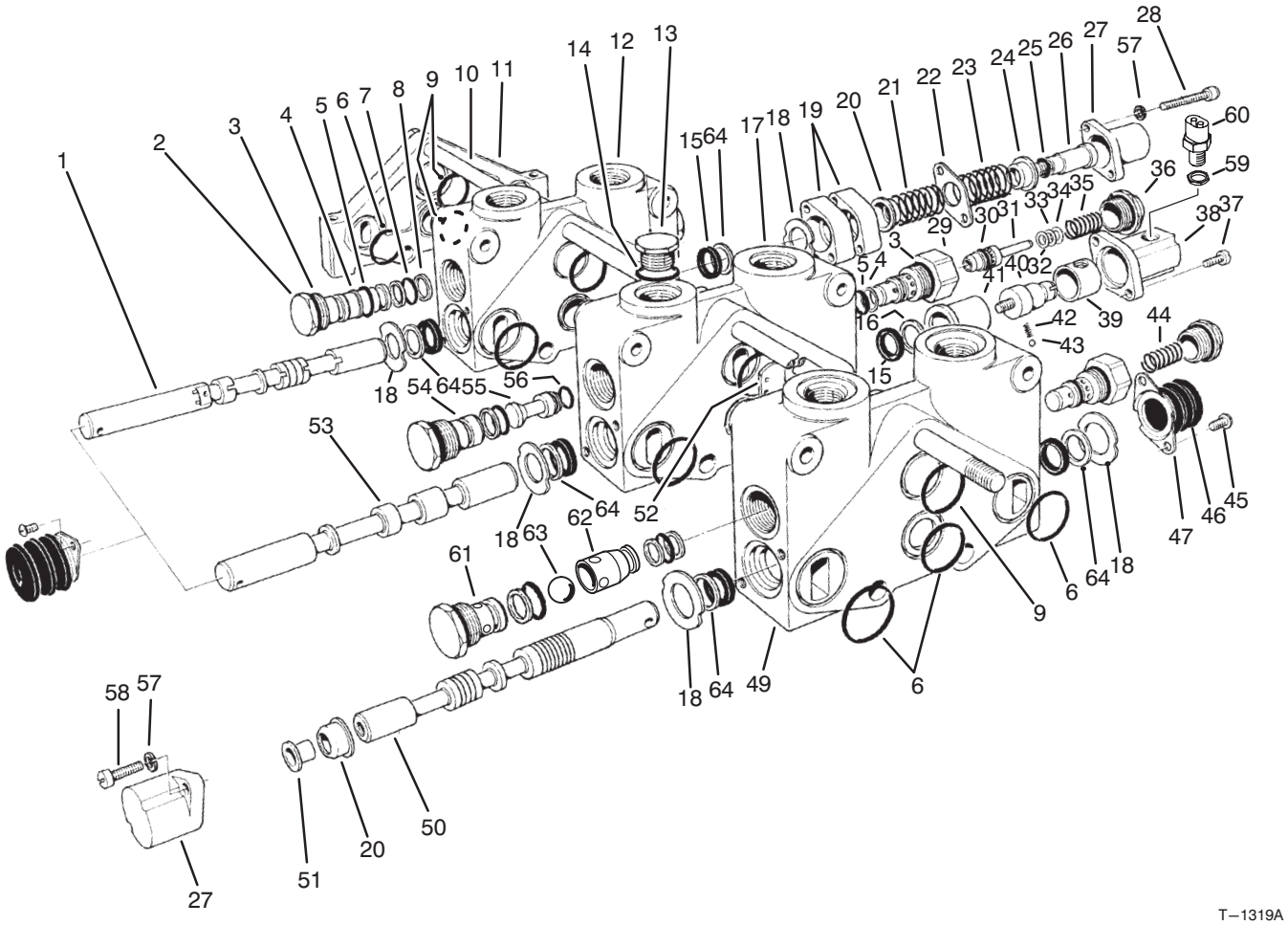
T–1319A

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

Ref. No.	Part No.	Description	No. Used
†1		Spool #5	1
2	353–481	Plug – Load Check (Incl. Ref. #3–5 & 7–8)	3
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
24	353–808	Collar – Spring	1

Ref. No.	Part No.	Description	No. Used
25	353–830	O–Ring	1
26	353–829	Collar Spool	1
27	354–26	Bonnet	2
28	354–28	Screw – Hex, Socket Hd.	2
29	353–851	Body – Relief CP–RC Mod.	2
30	353–392	Seal – Relief Poppet PTFE	2
31	353–531	Poppet Assembly (Incl. Ref. #30)	2
32	353–328	Washer – Shim	A/R
33	353–329	Washer – Shim	A/R
34	353–330	Washer – Shim	A/R
35	353–398	Spring	1
36	353–334	Cap – Relief	2
37	52–5900	Screw – Fillister Hd.	4
38	353–847	Bonnet (SPL)	1
39	353–849	Sleeve	1
40	353–846	Spud – DI (SPL)	1
41	353–845	Sleeve – Detent	1
42	353–730	Spring	1
43	353–731	Ball	1
44	353–855	Spring	1
45	3274–52	Screw – Hex. Socket Hd.	6
46	353–575	Boot – Dust Cap	3
47	93–3651	Retainer – Boot	3
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1

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



T—1319A

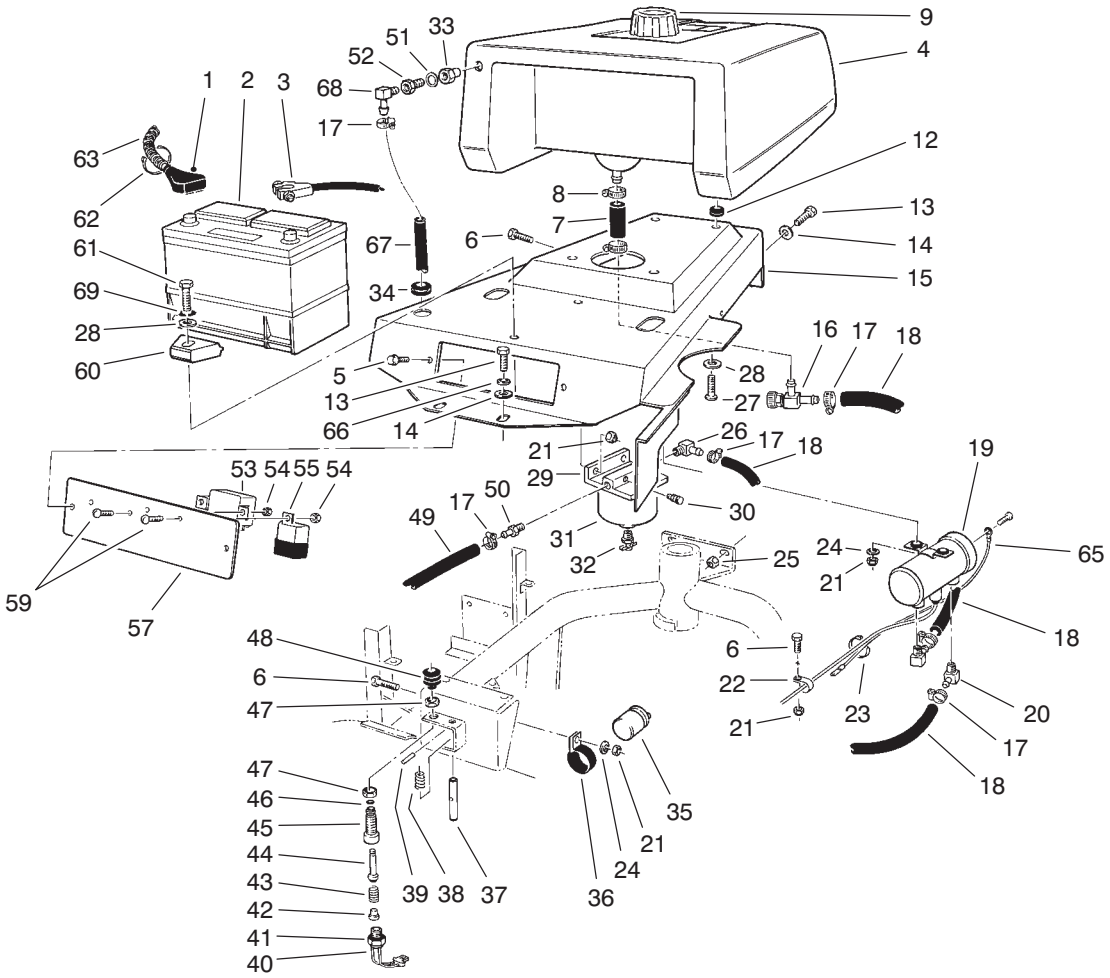
CONTROL VALVE ASSEMBLY NO. 84—2203 (Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
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	Plus 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
*	353—131	Section #3 Assembly (Complete)	1

Ref. No.	Part No.	Description	No. Used
*	354—25	Section #4 Assembly (Complete)	1
*	92—1386	Section #5 Assembly (Complete)	1
*	353—841	Position — Spool Assembly (Incl. Ref. #20, 27, 37, & 51)	1
*	353—840	Position — Dl (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	Seals — Spool Single (Incl. Ref. #15, 18 & 64)	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



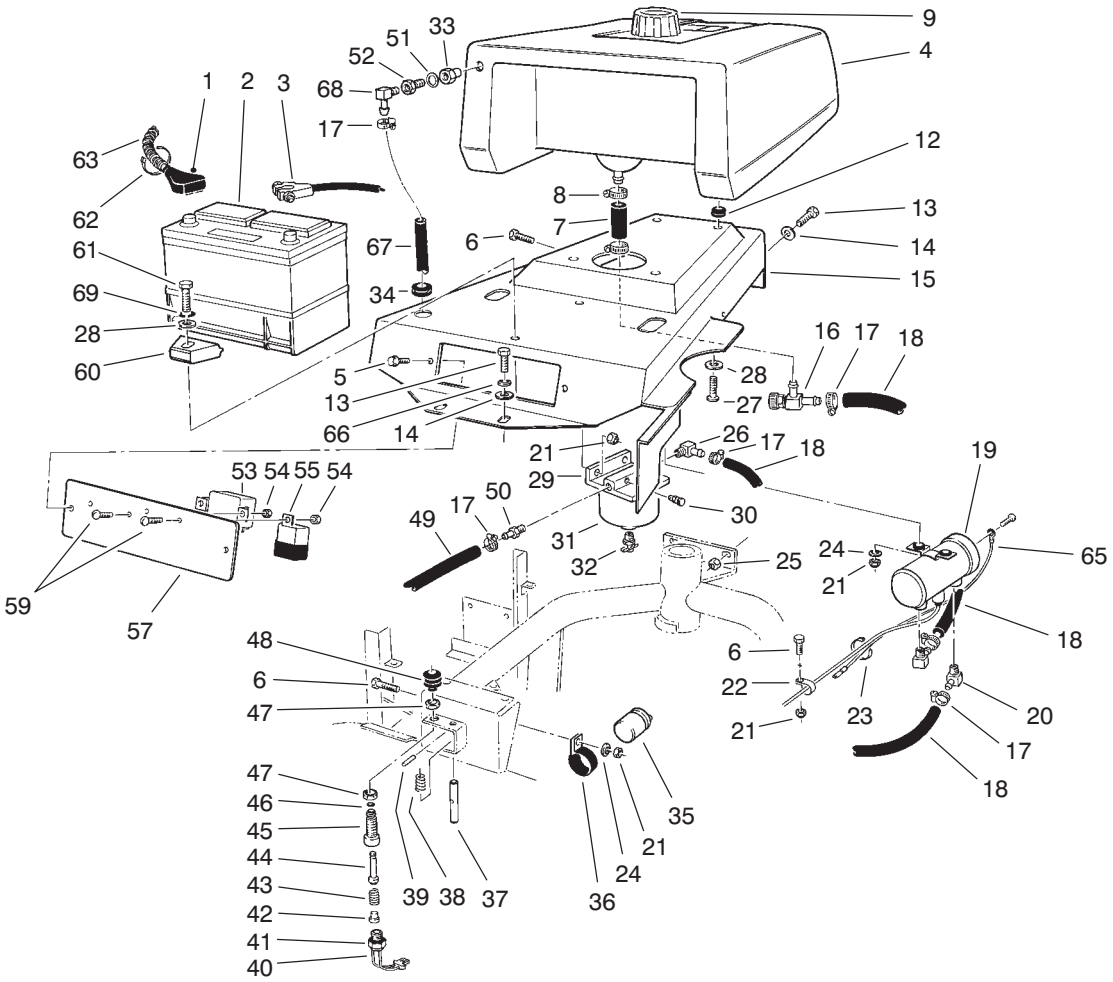
T–0637

GAS TANK & BATTERY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	92–1191	Cable – Battery, Positive	1
2†		Battery	1
3	92–1190	Cable – Battery, Negative	1
4	76–4380	Tank – Fuel, Diesel	1
5	32144–1	Screw – Thread Forming	2
6	321–4	Screw – Cap, Hex. Hd.	4
7	56–2230	Hose – Fuel	1
8	2412–36	Clamp – Hose	2
9	55–3577	Cap – Fuel	1
12	237–136	Grommet	4
13	323–6	Screw – Cap, Hex. Hd.	4
14	3256–3	Washer – Flat	4
15	68–5510	Base – Tank, Fuel	1
16	56–2520	Valve – Shutoff, Fuel	1
17	2412–108	Clamp – Hose	8
18	63–7622	Hose – Fuel	2
19	53–8150	Pump – Fuel (Incl. Ref. #65)	1
20	67–1690	Fitting	2
21	3296–16	Nut – Lock	5
22	2412–89	Clamp–R	1
23	3290–379	Tie – Cable	3
24	3256–22	Washer – Flat	3
25	3296–39	Nut – Lock	2
26	353–707	Fitting	1
27	3250–36	Screw – Pan Head	4

Ref. No.	Part No.	Description	No. Used
28	3256–24	Washer – Flat	6
29	63–8280	Head Assembly	1
30	63–8290	Fitting – Vent	1
31	63–8300	Element – Filter	1
32	63–8310	Fitting – Drain	1
33	52–1890	Wellnut – Rubber	1
34	237–124	Grommet	1
35	37–2690	Capacitor	1
36	2412–74	Clamp–R	1
37	51–0350	Pin – Spring, Seat	1
38	3–6685	Spring – Compression	1
39	3284–3	Pin – Groove	1
40	72–4320	Switch – Neutral (Incl. Ref. #41)	1
41	237–30	O–Ring	1
42	43–8610	Guide – Spring & Ball Seat	1
43	43–8600	Spring – Compression	1
44	43–8860	Plunger – Switch	1
45	43–8620	Guide – Pin, Switch	1
46	237–7	O–Ring	1
47	218–461	Nut – Jam	2
48	43–8870	Boot – Switch	1
49	63–7623	Hose – Fuel	1
50	353–783	Fitting – Straight	1
51	53–9880	Washer	1
52	52–1880	Adapter – Fitting, Fuel	1

† Obtain Locally



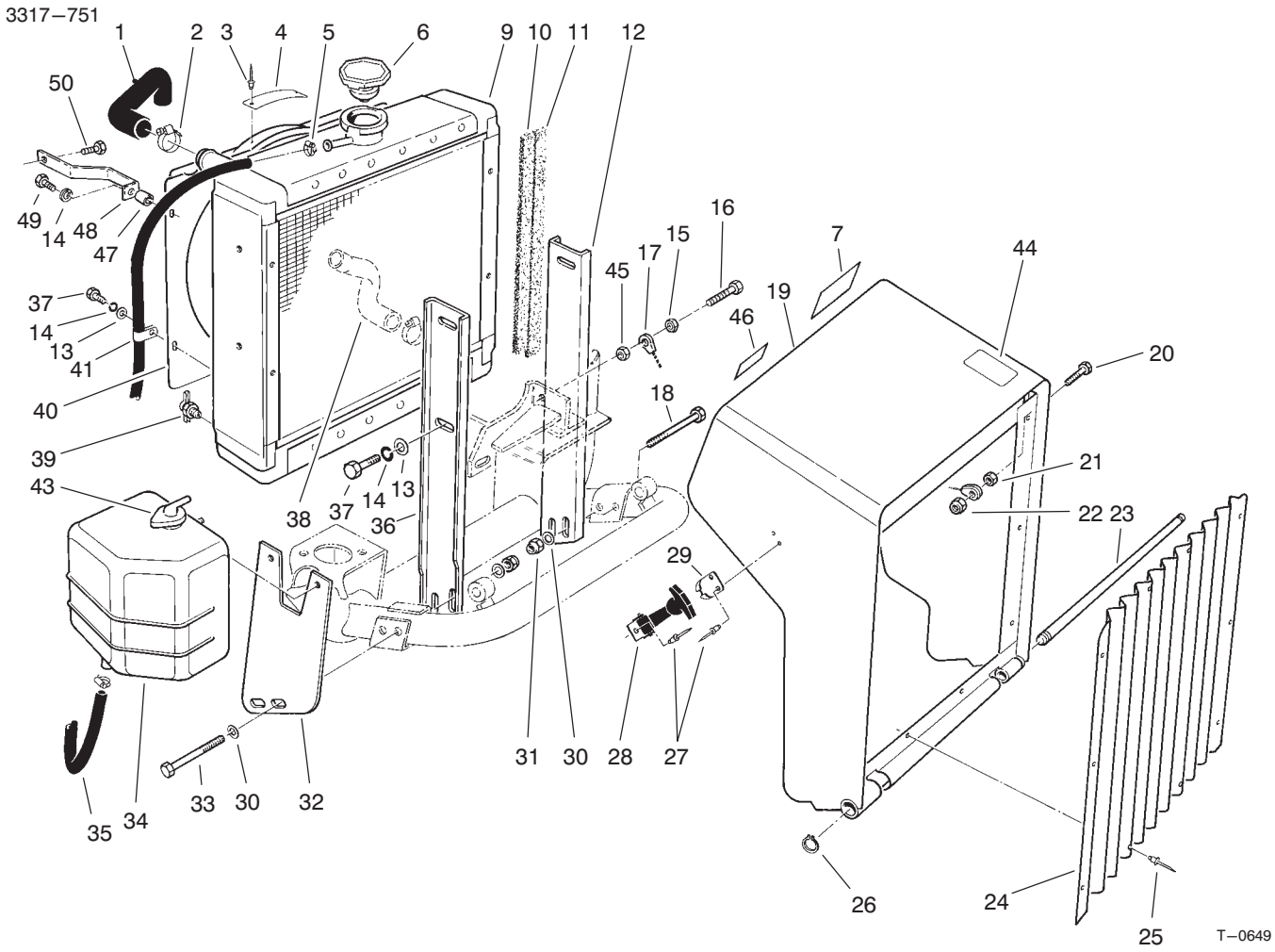
T–0637

GAS TANK & BATTERY (Continued)

Ref. No.	Part No.	Description	No. Used
53	66–8800	Relay – Glow	1
54	32149–7	Nut – KEPS	4
55	63–7590	Relay – SPDT	2
57	68–5680	Plate – Electrical	1
59	32105–8	Screw – Machine	4
60	66–2490	Retainer – Battery	2
61	323–9	Screw – Cap, Hex. Hd.	2
62	3290–378	Tie – Cable	4

Ref. No.	Part No.	Description	No. Used
63	70–8510	Tubing – Convoluted	1
65	70–8530	Wire – Pump, Fuel	1
66	3253–21	Washer – Lock	2
67	76–4420	Hose – Fuel	1
68	76–4430	Fitting – Fuel	1
69	3254–6	Washer – Lock	2
*	43–9071	Switch Assembly (Incl. Ref. #40–48)	1

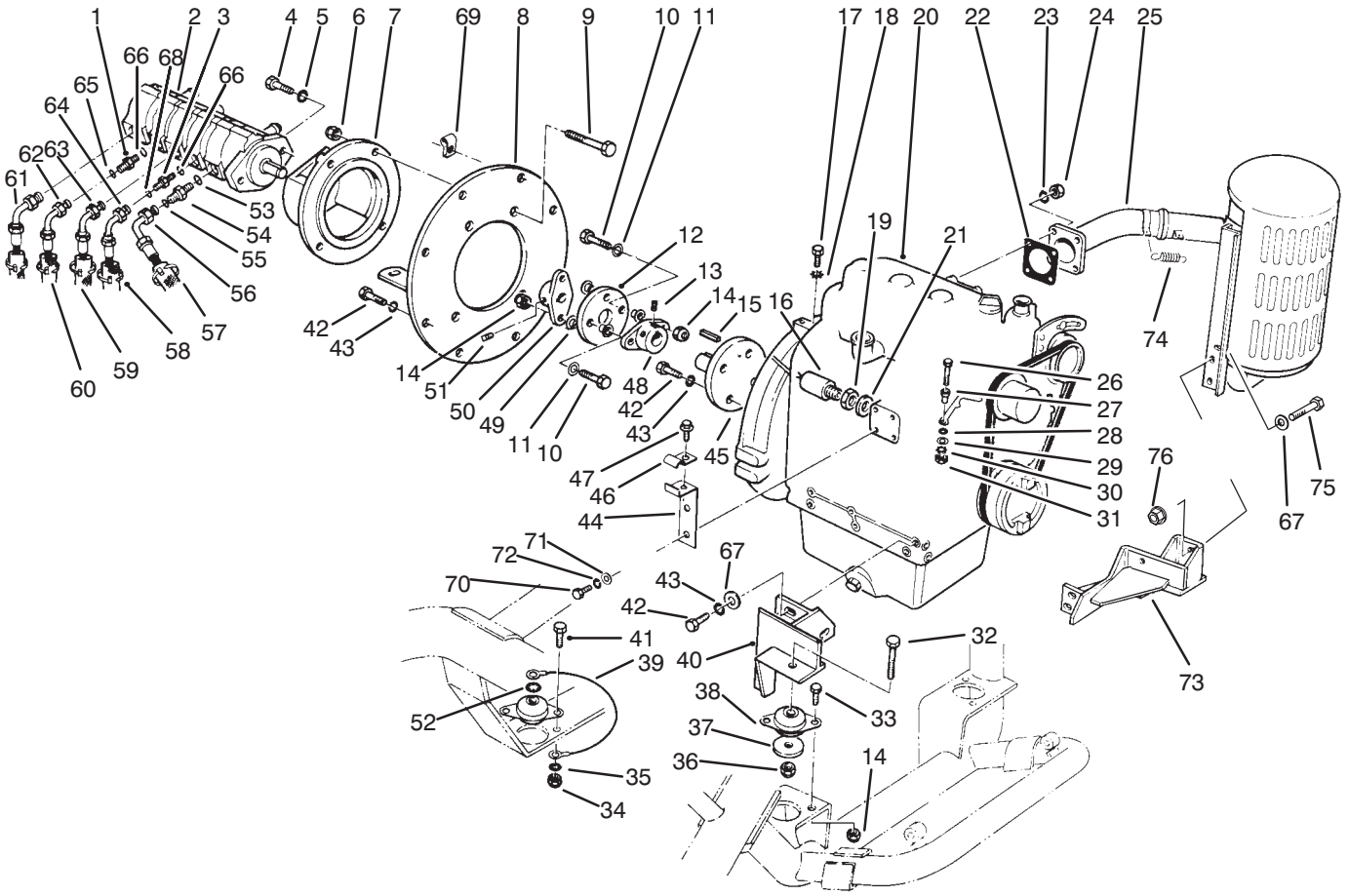
*Not Illustrated



RADIATOR & GRILLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68–4850	Hose – Upper	1
2	2412–3	Clamp	4
3	3290–271	Rivet	2
4	76–8750	Plate – Warning	1
5	2412–108	Clamp – Gear, Worm	2
6	66–3240	Cap – Radiator	1
7	83–6730	Decal – Coolant, Engine	1
9	68–5230	Radiator (Incl. Ref. #39)	1
10	68–5240	Strip – Foam	2
11	68–5241	Strip – Foam	2
12	68–5660	Support – Radiator, Rear	1
13	3256–23	Washer – Flat	7
14	3253–4	Washer – Lock	8
15	3217–6	Nut – Hex.	1
16	322–6	Screw – Cap, Hex. Hd.	1
17	72–9870	Cable	1
18	323–12	Screw – Cap, Hex. Hd.	2
19	68–4860	Hood – Radiator	1
20	321–6	Screw – Cap, Hex. Hd.	1
21	3218–1	Nut – Jam	1
22	3296–16	Nut – Lock	1
23	85–6560	Pin – Pivot, Hood	1
24	68–5670	Grille	1
25	3290–409	Rivet – Pop	10

Ref. No.	Part No.	Description	No. Used
26	32151–101	Ring – Retaining	2
27	3290–55	Rivet – Pop	8
28	59–9740	Latch Assembly (Incl. Ref. #29)	2
29		Keeper	2
30	3256–3	Washer – Flat	6
31	3296–59	Nut – Lock	4
32	68–5640	Bracket – Tank, Reserve	1
33	323–13	Screw – Cap, Hex. Hd.	2
34	63–7380	Tank – Reserve	1
35	68–5470	Hose	1
36	68–5650	Support – Radiator, Front	1
37	322–3	Screw – Cap, Hex. Hd.	7
38	68–4840	Hose	1
39	304–46	Cock – Drain, Radiator	1
40	68–5180	Shroud – Radiator	1
41	2412–41	Clamp	1
43	71–1520	Cap – Tank, Reserve	1
44	63–8440	Decal – Hot Surface	1
45	3296–29	Nut – Lock	1
46	66–6840	Decal – Hot Surface	1
47	75–9610	Spacer	1
48	75–9630	Brace	1
49	322–9	Screw – Cap, Hex. Hd.	1
50	32144–14	Screw – Cap, Hex. Hd.	1



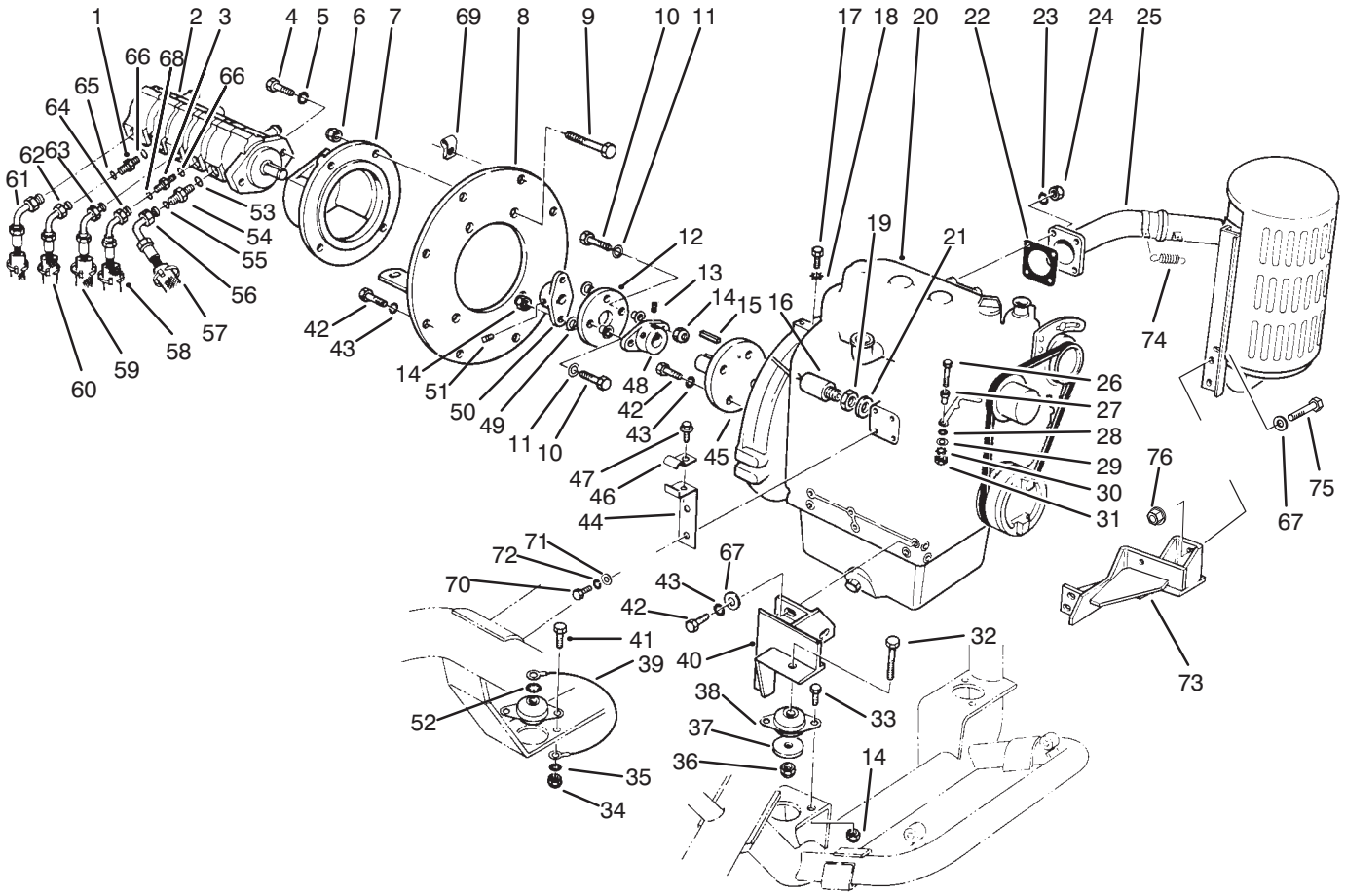
T–1766A

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	340–1	Fitting – Hydraulic (Incl. Ref. #65 & 66)	1
2	68–4940	Pump – Gear	1
3	340–2	Fitting – Hydraulic (Incl. Ref. #65 & 68)	3
4	323–8	Screw – Cap, Hex. Hd.	2
5	3253–29	Washer – Lock	2
6	3296–48	Nut – Lock	4
7	68–4930	Mount – Pump	1
8	68–4960	Plate – Flywheel	1
9	324–7	Screw – Cap, Hex. Hd.	4
10	322–6	Screw – Cap, Hex. Hd.	4
11	3256–23	Washer – Flat	4
12	44–2230	Coupling – Rubber	1
13	3241–2	Screw – Set, Sq. Hd.	2
14	3296–29	Nut – Lock	12
15	67–7490	Key	1
16	63–7440	Solenoid – Stop	1
17	70–8470	Screw	1
18	3255–16	Washer – Lock, Int. Tooth	1
19	43–2750	Nut – Jam	1
20	68–4950	Engine Assembly	1
21	43–2740	Gasket – Solenoid	1
22	42–9110	Gasket – Muffler	1
23	42–9850	Washer – Lock	4
24	48–7930	Nut	4

Ref. No.	Part No.	Description	No. Used
25	92–7164	Muffler – Exhaust	1
26	67–5110	Bolt	1
27	67–5100	Bushing	1
28	67–5120	Washer – Spring	1
29	67–5130	Washer – Flat	1
30	67–5140	Washer – Serrated	1
31	67–5150	Nut	1
32	323–11	Screw – Cap, Hex. Hd.	4
33	322–4	Screw – Cap, Hex. Hd.	7
34	3296–39	Nut – Lock	2
35	3254–2	Washer – Lock, Int. Tooth	1
36	3296–59	Nut – Lock	4
37	63–7400	Washer – Rebound	4
38	63–7140	Mount – Shock	4
39	70–8220	Cable – Ground	1
40	68–4990	Bracket – Engine, RH	1
41	322–5	Screw – Cap, Hex. Hd.	1
42	63–7790	Screw	18
43	48–9590	Washer – Lock	18
44	68–5090	Support – Cable, Throttle	1
45	68–4920	Hub – P.T.O.	1
46	2412–31	Clip – Cable	1
47	12–3270	Screw – Washer Hd.	1
48	27–1960	Hub	1
49	27–6600	Spacer	4
50	27–1970	Hub	1

*Not Illustrated



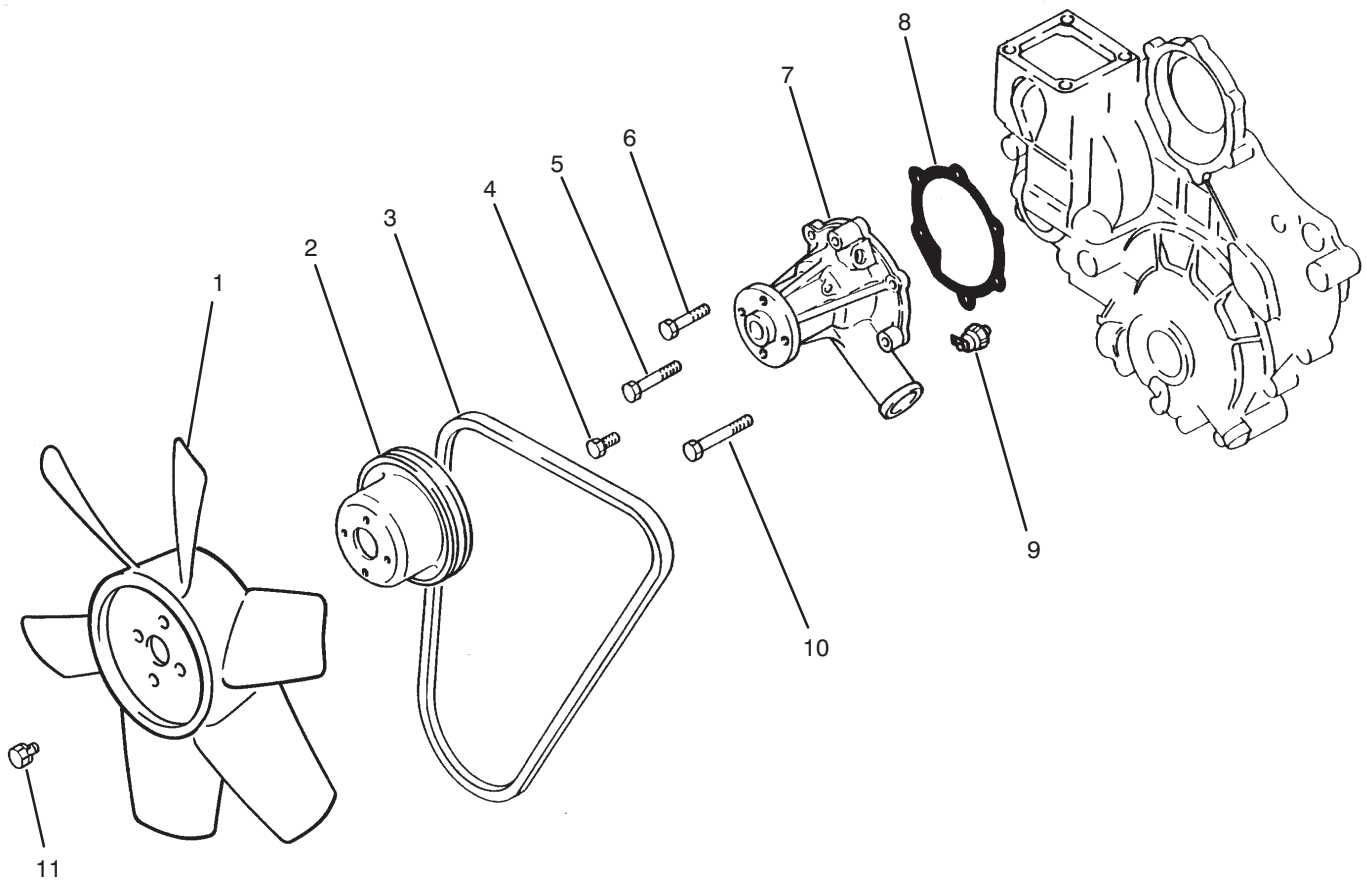
T–1766A

ENGINE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	3241–6	Screw – Set, Sq. Hd.	2
52	3254–6	Washer – Lock, Int. Tooth	1
53	237–80	O–Ring	1
54	340–6	Fitting – Hydraulic (Incl. Ref. #53 & 55)	1
55	237–30	O–Ring	1
56	68–5810	Hose – Pump (Incl. Ref.#57 & 58)	1
57	56–7984	Sleeve – Protective	1
58	3290–378	Tie – Cable	10
59	70–8450	Sleeve – Protective	3
60	70–8445	Sleeve – Protective	1
61	68–5850	Hose – Pump (Incl. Ref. #58 & 59)	1
62	68–5840	Hose – Pump, Steering (Incl. Ref. #58 & 60)	1
63	68–5770	Hose – Pump (Incl. Ref. #58 & 59)	1

Ref. No.	Part No.	Description	No. Used
64	68–5710	Hose – Pump (Incl. Ref. #58 & 59)	1
65	237–35	O–Ring	1
66	237–42	O–Ring	4
67	3256–24	Washer	9
68	237–22	O–Ring	3
69	2412–39	Clamp	1
70	48–7630	Screw – Cap, Metric	1
71	48–8010	Washer – Flat	1
72	48–8020	Washer – Lock	1
73	92–7168	Bracket – Engine, LH	1
74	92–8915	Spring	2
75	323–7	Screw – Cap Hex. Hd.	2
76	3290–357	Nut – Lock	1
*	70–8550	Spark Arrester (Optional)	1

*Not Illustrated

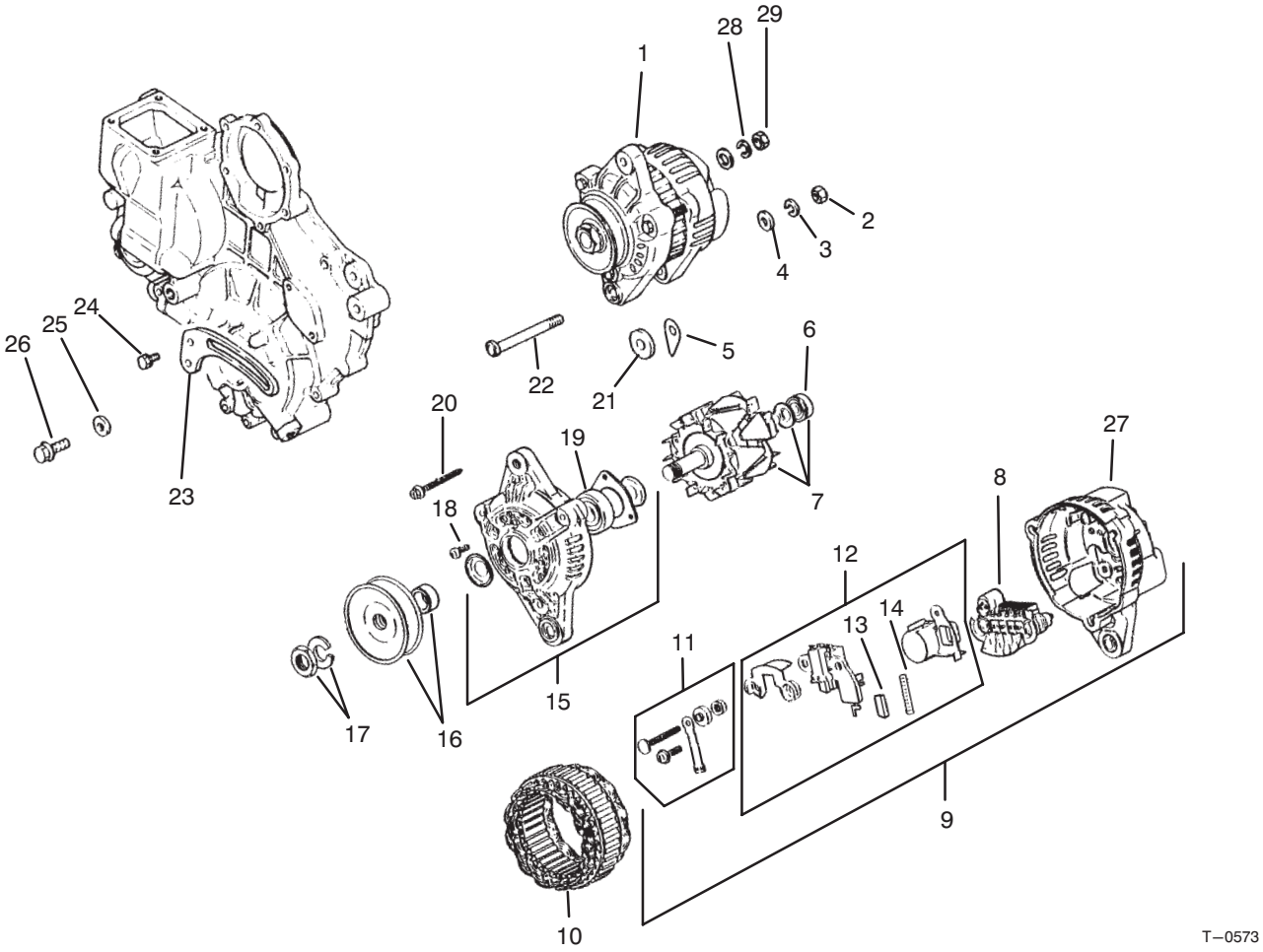


T–0614

WATER PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70–8730	Fan	1
2	67–4370	Pulley	1
3	67–4410	Belt – V	1
4	67–2330	Bolt	2
5	67–4400	Bolt	1
6	67–2600	Bolt	1

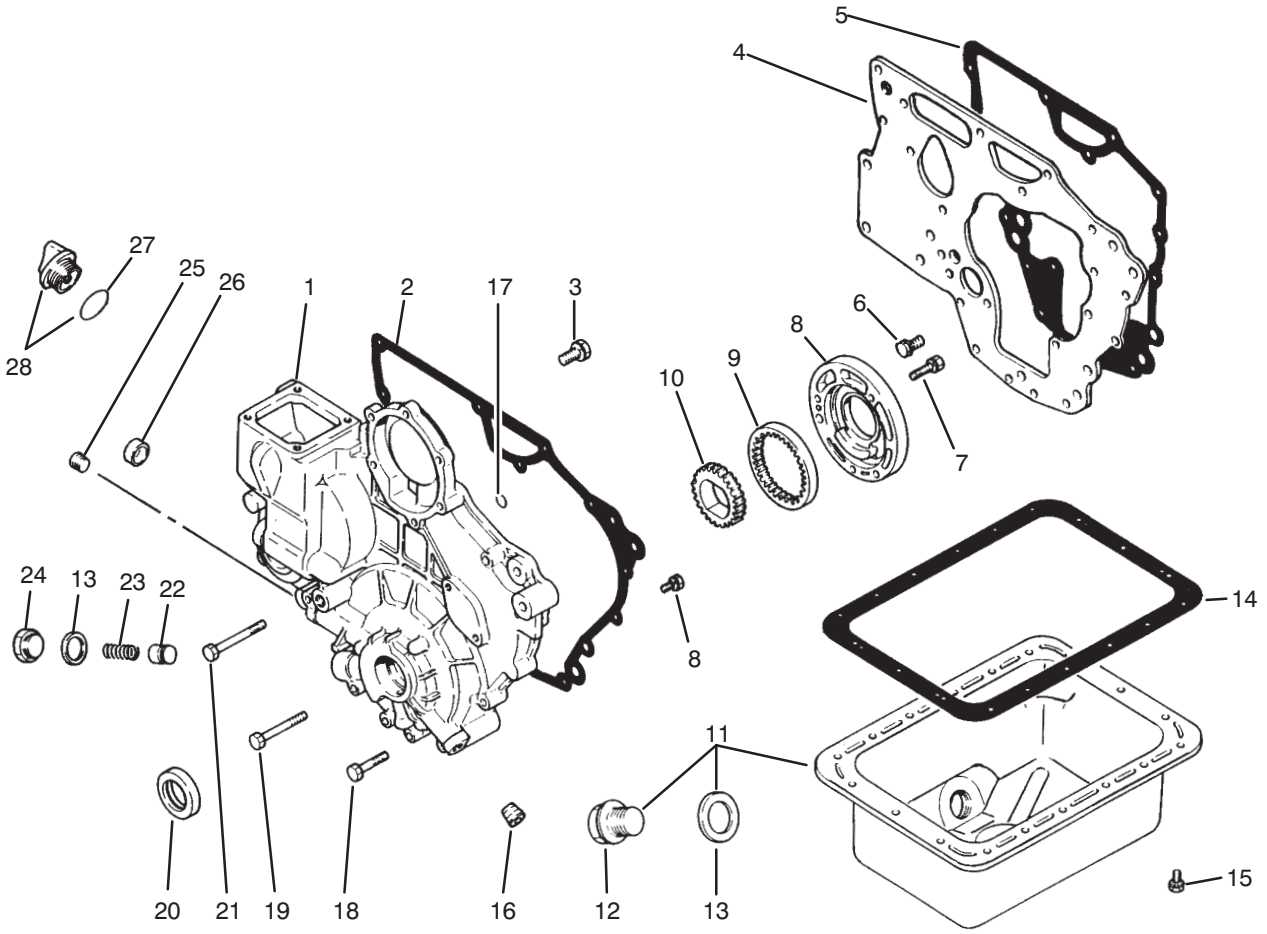
Ref. No.	Part No.	Description	No. Used
7	70–8740	Pump Assembly	1
8	67–4390	Gasket	1
9	67–4350	Switch Assy. – Press. Oil	1
10	67–2610	Bolt	2
11	42–9490	Bolt & Washer	4



ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67–4630	Alternator Assembly (Incl. Ref. #6–17)	1
2	67–4670	Nutd	1
3	67–3260	Washer	1
4	42–9660	Washer	1
5	43–0370	Shim	1
6	67–4870	Bearing – Rear	1
7	67–4860	Rotor Assembly (Incl. Ref. #6)	1
8	67–4930	Rectifier Assembly	1
9	67–4890	Rear Bracket Assembly (Incl. Ref. #8, 11 & 12)	1
10	67–4880	Stator Assembly	1
11	67–4900	Terminal Set	1
12	67–4910	Regulator Assembly (Incl. Ref. #13 & 14)	1
13	67–4920	Brush	2

Ref. No.	Part No.	Description	No. Used
14	43–0510	Spring – Brush	2
15	67–4830	Front Bracket Assembly (Incl. Ref. #18 & 19)	1
16	67–4810	Pulley Set	1
17	43–1920	Nut – Special	1
18	67–4840	Screw – Set	1
19	67–4850	Bearing – Front	1
20	67–4820	Bolt Set	1
21	67–4620	Spacer	1
22	67–4640	Bolt	1
23	67–4650	Brace	1
24	42–9440	Bolt & Washer	1
25	54–8660	Washer	1
26	67–4660	Bolt – Flange	1
27	5–3637	Washer – Flat	1
28	43–5920	Washer – Lock	1
29	43–5970	Nut – Hex.	1



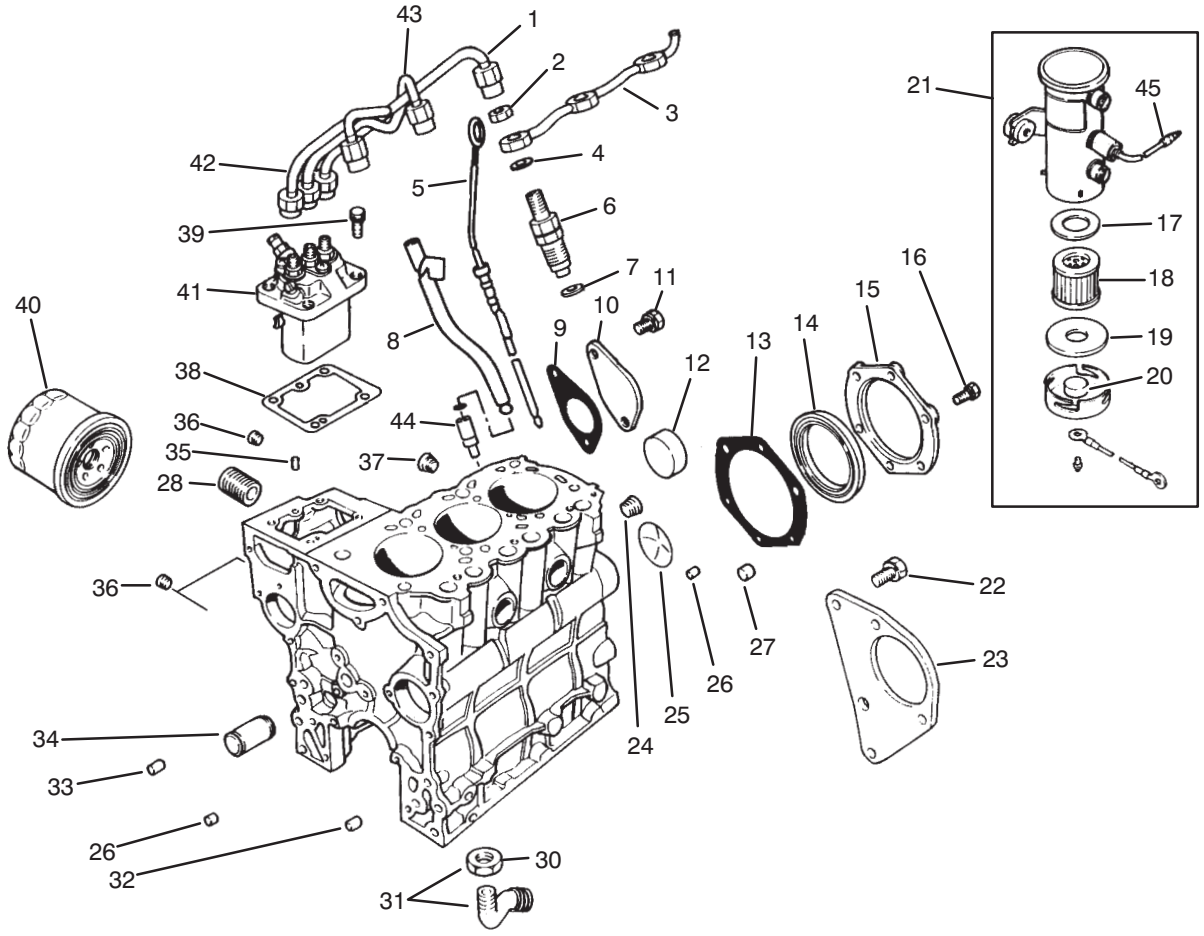
T–0613

CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	75–4920	Crankcase Sub–Assembly	1
2	67–2580	Gasket – Case	1
3	67–2340	Bolt & Washer	3
4	67–2310	Plate	1
5	67–2320	Gasket – Plate	1
6	42–9440	Bolt & Washer	11
7	67–2560	Bolt & Washer	3
8	67–2550	Housing – Pump, Oil	1
9	67–2540	Gear – Outer	1
10	67–2530	Gear – Inner	1
11	67–2470	Oil Pan Assembly (Incl. Ref. #15 & 16)	1
12	42–9260	Plug	1
13	42–7290	Gasket – Drain, Oil	2
14	67–2480	Gasket – Pan, Oil	1
15	42–9490	Bolt & Washer	18

Ref. No.	Part No.	Description	No. Used
16	42–7210	Plug	1
17	67–2630	O–Ring	2
18	67–2600	Bolt	3
19	67–2610	Bolt	4
20	67–2590	Seal – Oil	1
21	67–2620	Bolt	1
22	67–2500	Plunger	1
23	67–2510	Spring	1
24	67–2520	Plug	1
25	67–2570	Plug	1
26	67–2640	Cap	1
27	67–2660	O–Ring	1
28	67–2650	Oil Fill Cap Assembly (Incl. Ref. #27)	1
*	70–8790	Gasket Kit	1

*Not Illustrated



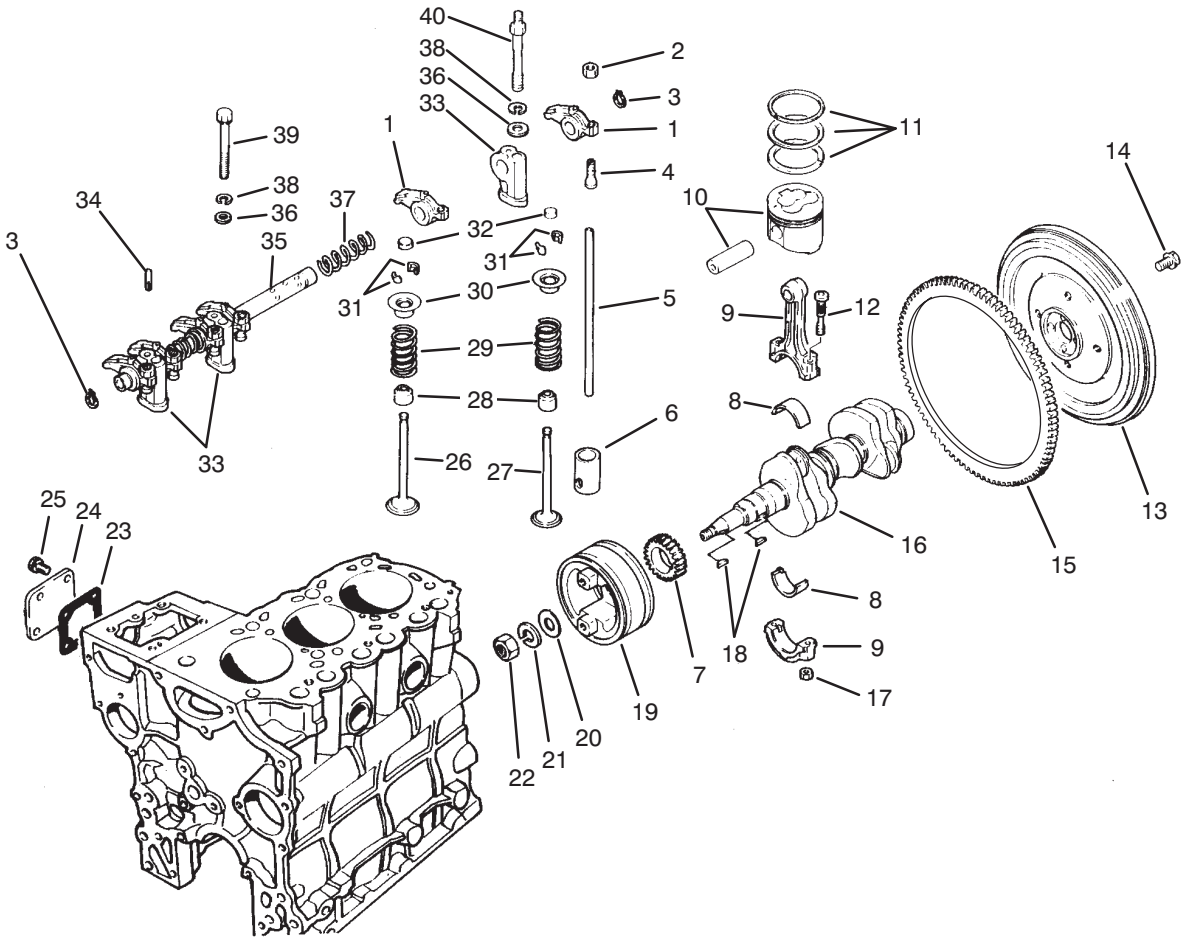
T–0569

FUEL SUPPLY & ENGINE BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67–3420	Pipe Assembly No. 3	1
2	67–3430	Nut	3
3	70–8700	Pipe – Return, Fuel	1
4	67–3440	Gasket	3
5	70–8880	Dipstick	1
6	67–3380	Nozzle & Holder Assembly	1
7	67–3390	Gasket	3
8	67–2220	Guide	1
9	67–2300	Gasket	1
10	67–2290	Cover	1
11	67–2340	Bolt & Washer	2
12	56–0020	Plug	1
13	67–2280	Gasket	1
14	67–2230	Seal – Oil	1
15	67–2270	Case	1
16	67–2330	Bolt	6
17	43–2570	Gasket	1
18	43–2550	Filter	1
19	43–2560	Gasket	1
20	43–2580	Magnet	1
21	53–8150	Pump Assembly (Incl. Ref. #17–20)	1
22	70–8890	Housing – Flywheel	1
23	67–2440	Bolt & Washer	9
24	67–2390	Plug	1
25	67–2350	Plug	1
26	67–2360	Bushing	2

Ref. No.	Part No.	Description	No. Used
27	67–2380	Bushing	3
28	56–1230	Shaft – Filter, Oil	1
29	67–2460	Bolt	4
30	42–9650	Nut – Jam	1
31	67–4340	Screen Assembly (Incl. Ref. #30)	1
32	67–2370	Bushing	1
33	42–7190	Bushing	1
34	67–2260	Shaft – Idler	1
35	56–0220	Pin	2
36	67–2210	Plug	3
37	56–0100	Plug	1
38	67–3280	Shim – 0.2	1
*	67–3290	Shim – 0.3	1
*	67–3300	Shim – 0.4	1
*	67–3310	Shim – 0.5	1
*	67–3320	Shim – 0.6	1
*	67–3330	Shim – 0.7	1
*	67–3340	Shim – 0.8	1
*	67–3350	Shim – 0.9	1
*	67–3360	Shim – 1.0	1
39	67–3370	Bolt & Washer	4
40	67–4330	Oil Filter Assembly	1
41	70–8690	Pump Assembly	1
42	67–3400	Pipe Assembly No.1	1
43	67–3410	Pipe Assembly No.2	1
44	70–8530	Wire Assembly	1

*Not Illustrated



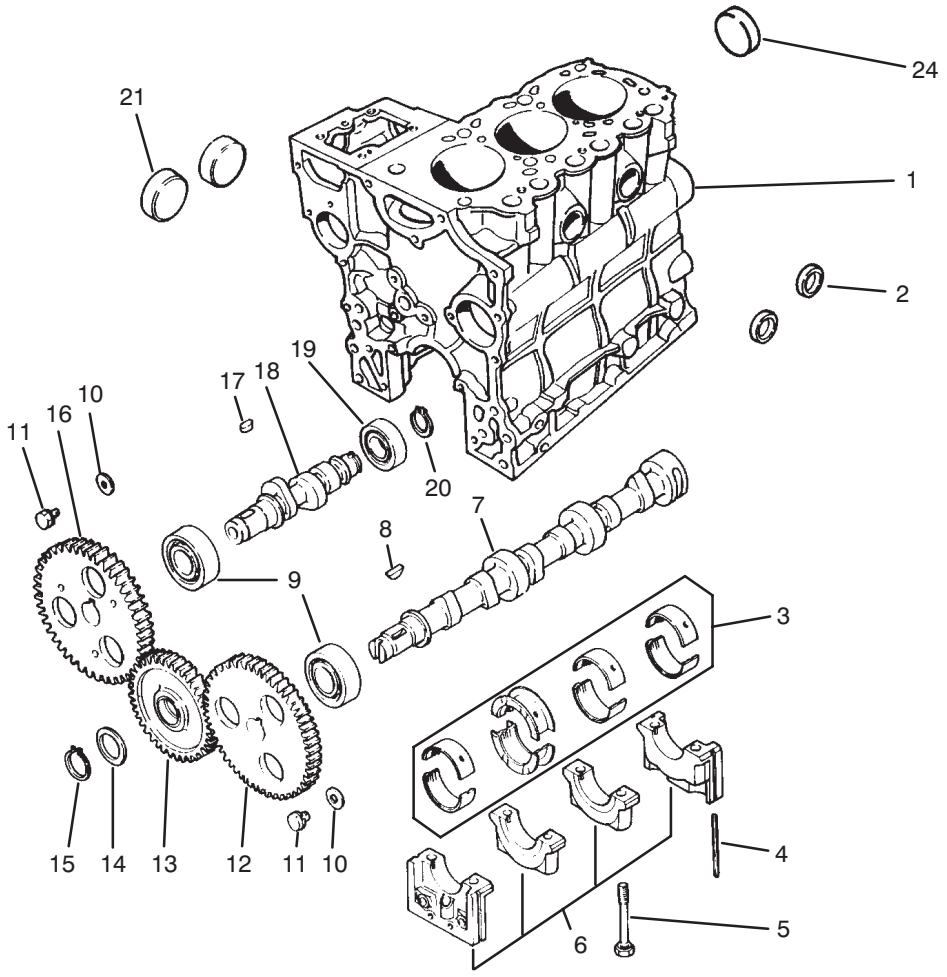
T—0611

VALVES & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67—3160	Arm — Rocker	6
2	67—3230	Nut — Jam	6
3	67—3040	Ring — Snap	2
4	67—3210	Screw — Adjusting	6
5	67—3150	Rod — Push	6
6	67—3120	Tappet	6
7	67—2910	Gear	1
8	67—2880	Bearing Set — Std.	1
*	67—2890	Bearing Set — 0.25 U.	1
*	67—2900	Bearing Set — 0.50 U.	1
9	70—8860	Connecting Rod Assembly (Incl. Ref. #8, 9, 12 & 17)	3
10	70—8830	Piston & Pin Set — Std.	1
*	70—8840	Piston & Pin Set — 0.25 U.	1
*	70—8850	Piston & Pin Set — 0.50 U.	1
11	70—8800	Piston Ring Set — Std.	1
*	70—8810	Piston Ring Set — 0.25 U.	1
*	70—8820	Piston Ring Set — 0.50 U.	1
12	67—2860	Bolt	6
13	67—2970	Flywheel Assembly (Incl. Ref. #15)	1
14	67—2990	Bolt	4
15	67—2980	Gear — Ring	1
16	92—0845	Crankshaft	1

Ref. No.	Part No.	Description	No. Used
17	42—9590	Nut	6
18	56—0480	Key — Woodruff	2
19	70—8680	Pulley — Crankshaft	1
20	67—2950	Washer	1
21	67—2960	Washer — Lock	1
22	67—2940	Nut — Jam	1
23	67—4310	Gasket	1
24	67—4250	Cover	1
25	42—9440	Bolt & Washer	4
26	67—3130	Valve — Intake	3
27	67—3140	Valve — Exhaust	3
28	42—7870	Seal	6
29	67—3110	Spring	6
30	67—3100	Retainer	6
31	42—7860	Lock	12
32	67—3180	Cap	6
33	67—3200	Stay — Rocker	3
34	67—3220	Pin	1
35	67—3190	Rocker Shaft Assembly	1
36	42—9660	Washer	3
37	67—3170	Spring	2
38	67—3260	Washer	3
39	42—9510	Bolt	1
40	67—3250	Bolt — Stay, Rocker	2

*Not Illustrated



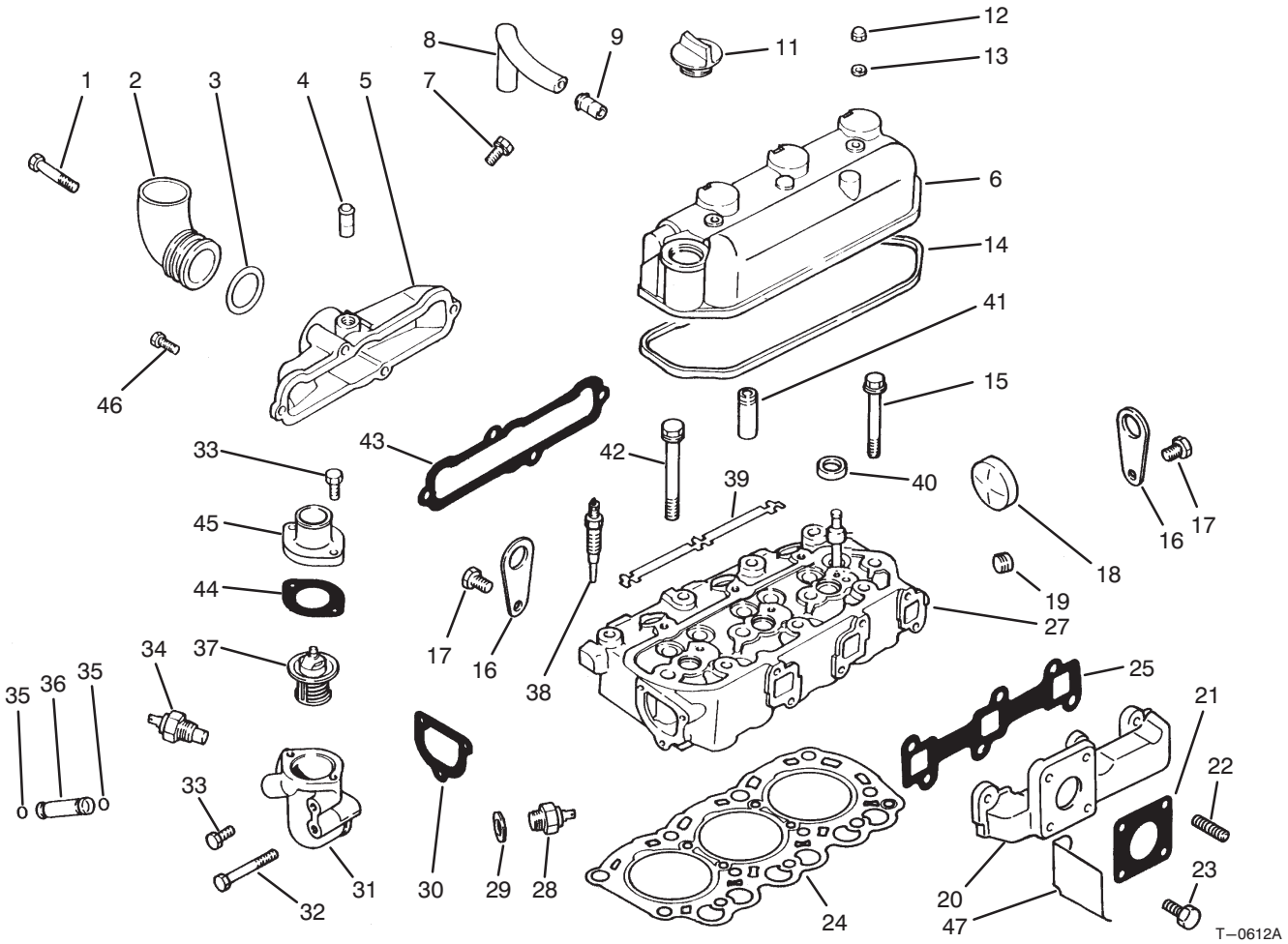
T–0610

CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70–8650	Block – Sub–Assembly (Incl. Ref. #2, 5–6 & 21)	1
2	42–7080	Cap	2
3	67–2400	Bearing Set – Std.	1
*	67–2410	Bearing Set – 0.25	1
*	67–2420	Bearing Set – 0.50	1
4	67–2200	Seal	4
5	67–2250	Bolt	8
6		Cap Assembly	1
7	67–3010	Camshaft	1
8	56–0480	Key – Woodruff	1
9	67–3030	Bearing	2

Ref. No.	Part No.	Description	No. Used
10	67–3000	Washer	2
11	42–9490	Bolt & Washer	2
12	67–3020	Gear	1
13	67–3090	Gear Assembly	1
14	67–3040	Plate	1
15	56–1060	Ring – Snap	1
16	67–3070	Gear	1
17	42–7840	Key	1
18	67–3060	Shaft	1
19	67–3050	Bearing	1
20	67–3080	Ring – Snap	1
21	56–0020	Plug	2

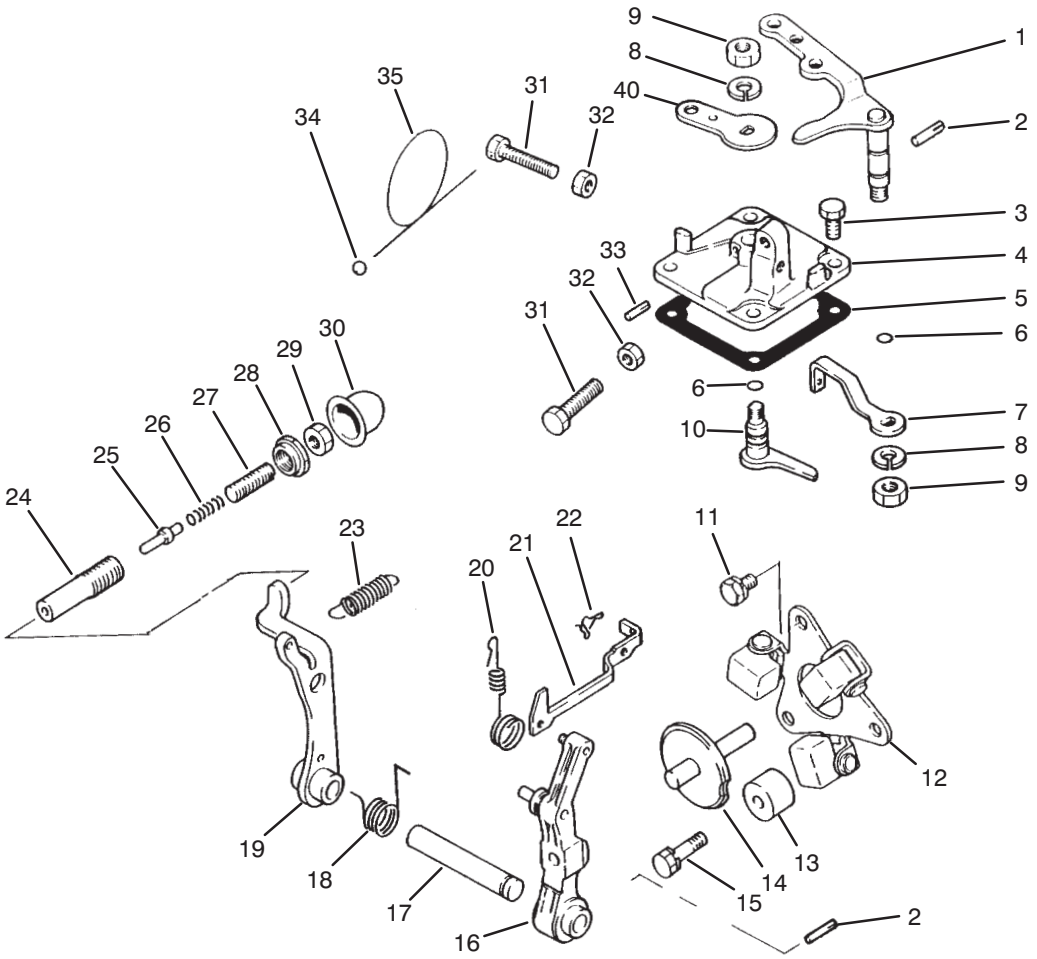
*Not Illustrated



CYLINDER HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67–4400	Bolt	2
2	67–4520	Pipe	1
3	67–4540	O–Ring	1
4	42–7510	Pipe	1
5	67–4530	Cover – Intake (Incl. Ref. #4)	1
6	92–0846	Cover Assembly (Incl. Ref. #9)	1
7	42–9430	Bolt & Washer	1
8	67–2670	Hose – Breather	1
9	42–7510	Pipe	1
11	92–0847	Oil Filler Cap Assembly	1
12	67–2770	Nut – Cap	2
13	67–2780	Washer	2
14	67–2760	Gasket	1
15	67–2140	Bolt – Flange	3
16	67–2680	Hanger – Engine	2
17	67–2340	Bolt & Washer	2
18	56–0020	Plug – Expansion	1
19	67–2570	Plug – Taper	1
20	70–8750	Manifold – Exhaust	1
21	42–9110	Gasket	1
22	42–9570	Stud	4
23	67–4590	Bolt	6

Ref. No.	Part No.	Description	No. Used
24	70–8670	Gasket – Head, Cylinder	1
25	67–4570	Gasket – Manifold, Exhaust	1
27	70–8660	Cylinder Head Assembly (Incl. Ref. #18, & 40–41)	1
28	67–4500	Switch – Thermal	1
29	67–4490	Gasket	1
30	67–4460	Gasket – Fitting, Thermostat	1
31	67–4450	Fitting – Thermostat	1
32	67–4470	Bolt	1
33	67–2330	Bolt	4
34	67–4510	Nut – Gauge, Temp.	1
35	43–2710	O–Ring	2
36	67–4480	Pipe – By–Pass	1
37	67–5050	Thermostat	1
38	92–2539	Plug – Glow	3
39	67–4690	Plate – Plug, Glow	1
40	67–2710	Cap – Sealing	3
41	67–2700	Guide – Valve	6
42	67–2730	Bolt	8
43	67–4550	Gasket – Manifold, Intake	1
44	67–4430	Gasket – Outlet, Water	1
45	67–4420	Fitting – Outlet, Water	1
46	67–2330	Bolt	2
47	72–6140	Shield – Heat, Alternator	1



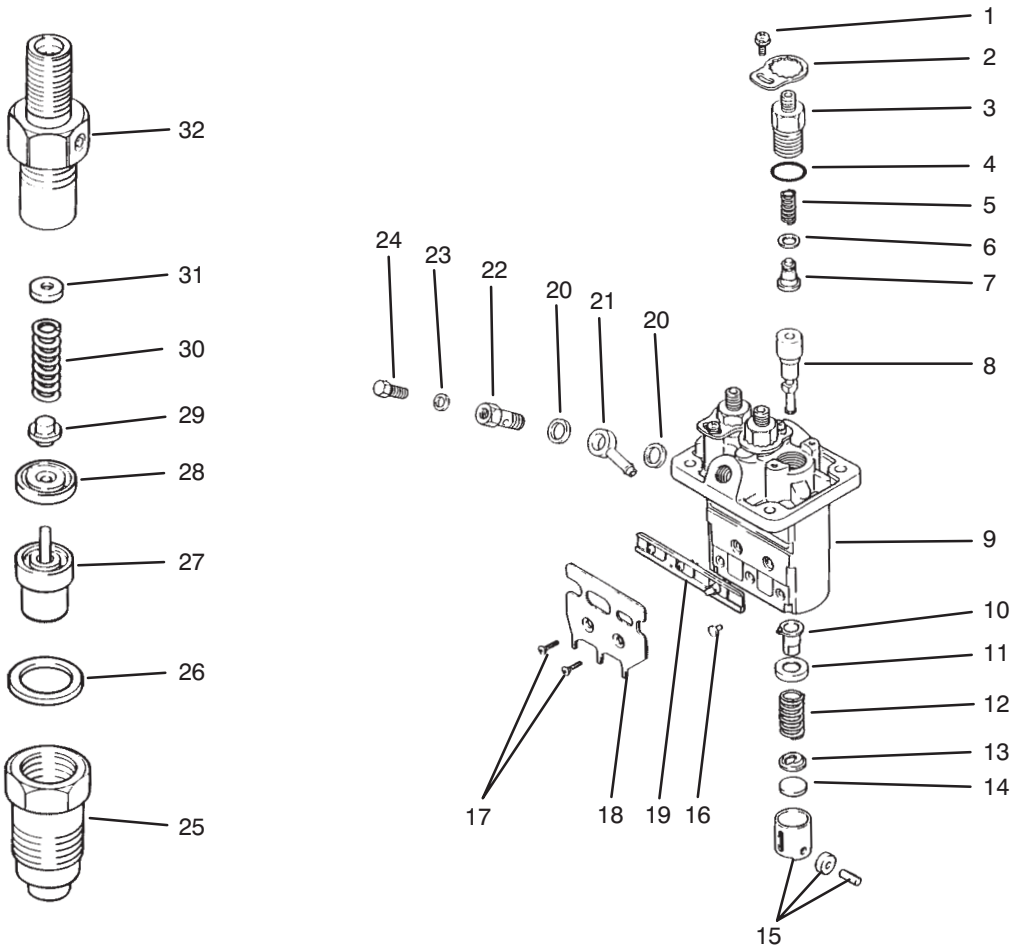
T–0615

GOVERNOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67–3990	Speed Control Lever Assy.	1
2	67–4000	Pin	2
3	67–4270	Bolt	4
4	67–4130	Cover – Governor	1
5	67–4160	Gasket	1
6	42–8830	O–Ring	2
7	67–4020	Lever – Spring, Governor	1
8	67–3260	Washer	2
9	42–9640	Nut – Jam	2
10	67–4140	Lever – Stop Assembly	1
11	42–9430	Bolt & Washer	2
12	67–4040	Weight Assembly	1
13	67–4010	Stopper	1
14	67–4070	Sliding Shaft Assembly	1
15	67–4280	Bolt & Washer	1
16	67–4060	Governor Lever Assembly	1
17	67–4050	Shaft	1
18	67–5040	Spring	1
19	67–4090	Tension Lever Assembly	1
20	70–8720	Spring – Tie Rod	1
21	67–4030	Rod – Tie	1

Ref. No.	Part No.	Description	No. Used
22	67–4080	Clip	1
23	67–4260	Spring	1
24	67–4210	Case – Torque Spring	1
25	67–4230	Stopper	1
26	67–4190	Spring – Torque	1
27	67–4220	Screw – Adjusting	1
28	67–4200	Nut – Special	1
29	67–4180	Nut	1
30	67–4240	Cap	2
31	42–9420	Bolt	2
32	67–4290	Nut	2
33	67–4120	Pin	1
34	42–8690	Metal – Sealing	1
35	42–8700	Wire	1
36	67–4150	Lever – Stop	1
*	67–4110	Cover Assembly (Incl. Ref. #4, 6, 8–10, 33 & 36)	1
*	67–4170	Spring Set (Incl. Ref. #24–29)	1

*Not Illustrated



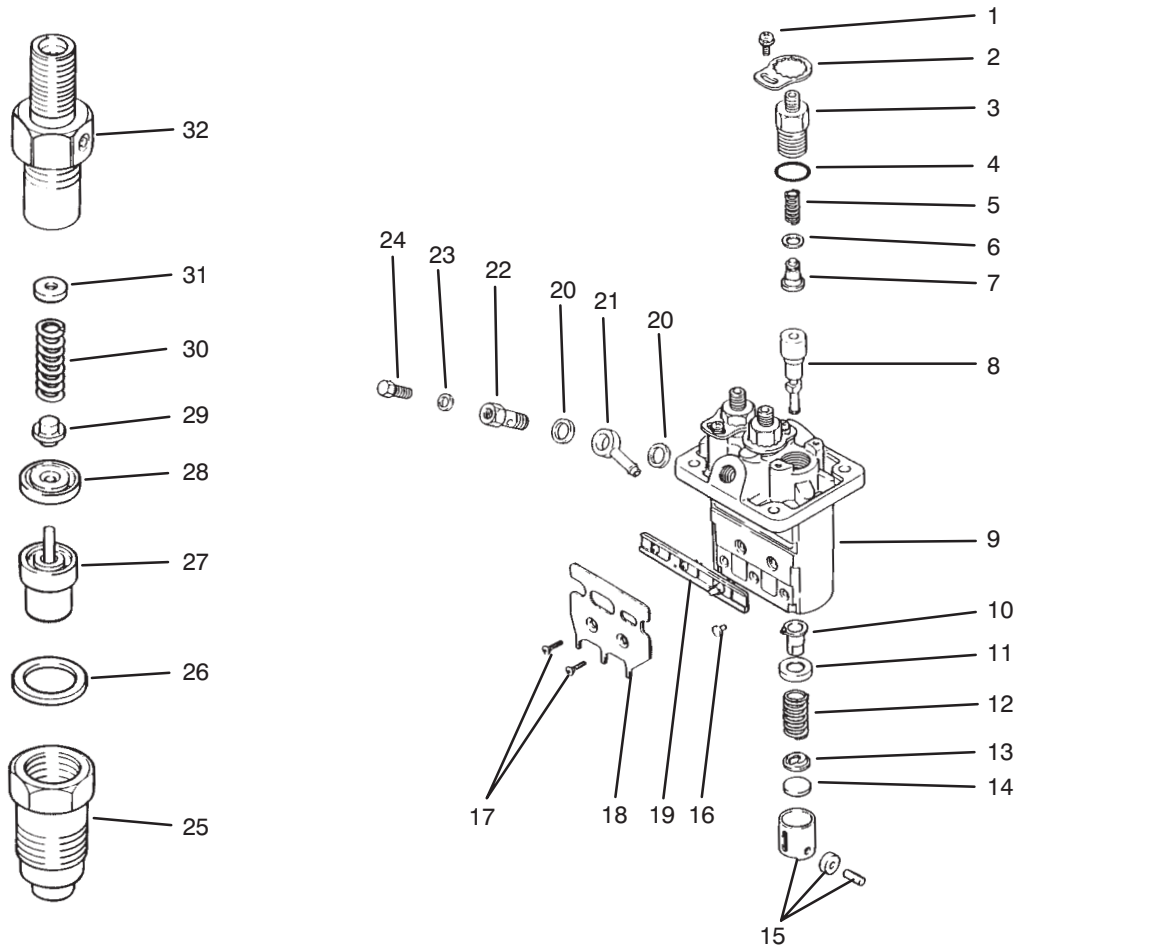
T–0570

FUEL INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67–3770	Screw & Washer	3
2	67–3760	Plate – Lock	3
3	67–3470	Holder – Delivery Valve	3
4	67–3480	O–Ring	3
5	67–3490	Spring	3
6	42–8240	Gasket	3
7	67–3500	Valve	3
8	70–8710	Element	3
9	67–3460	Housing – Pump	1
10	67–3520	Sleeve	3
11	67–3530	Seat	3
12	67–3540	Spring	3
13	67–3550	Seat	3
14	67–3560	Plate – Shim 1.85	1
*	67–3570	Plate – Shim 1.9	1
*	67–3580	Plate – Shim 1.95	1
*	67–3590	Plate – Shim 2.0	1
*	67–3600	Plate – Shim 2.05	1
*	67–3610	Plate – Shim 2.1	1
*	67–3620	Plate – Shim 2.15	1
*	67–3630	Plate – Shim 2.2	1
*	67–3640	Plate – Shim 2.25	1
*	67–3650	Plate – Shim 2.3	1
*	67–3660	Plate – Shim 2.35	1
*	67–3670	Plate – Shim 2.4	1
*	67–3680	Plate – Shim 2.45	1
*	67–3690	Plate – Shim 2.5	1

Ref. No.	Part No.	Description	No. Used
15	67–3700	Tappet Assembly	3
16	67–3810	Pin	3
17	67–3790	Screw	2
18	67–3800	Bracket	1
19	67–3780	Rack Assembly	1
20	67–3750	Washer	2
21	67–3740	Nipple	1
22	67–3730	Screw	1
23	67–3720	Washer	1
24	67–3710	Screw – Bleed, Air	1
25	67–3970	Nut	3
26	67–3980	Gasket	3
27	67–3960	Nozzle Assembly	3
28	67–3950	Piece	3
29	67–3940	Pin	3
30	67–3930	Spring	3
31	67–3830	Washer – 1.25	1
*	67–3840	Washer – 1.3	1
*	67–3850	Washer –1.35	1
*	67–3860	Washer – 1.4	1
*	67–3870	Washer – 1.45	1
*	67–3880	Washer – 1.5	1
*	67–3890	Washer – 1.55	1
*	67–3900	Washer – 1.6	1
*	67–3910	Washer – 1.65	1
*	67–3920	Washer – 1.7	1

*Not Illustrated



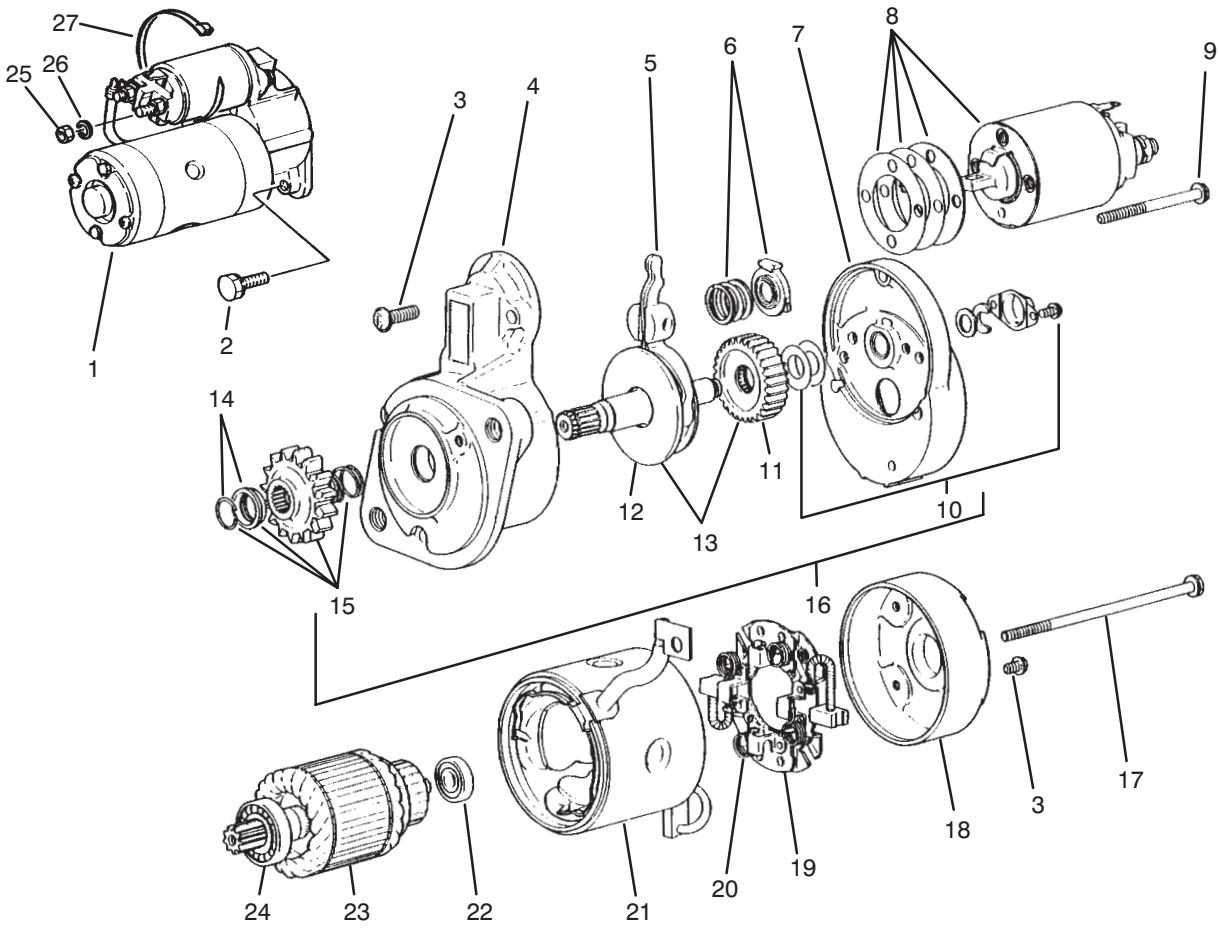
T−0570

FUEL INJECTION PUMP ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	67−3820	Body	3
*	70−8690	Pump Assembly (Incl. Ref. #1−24)	1

Ref. No.	Part No.	Description	No. Used
*	67−3380	Nozzle & Holder Assembly (Incl. Ref. #25−32)	3

*Not Illustrated

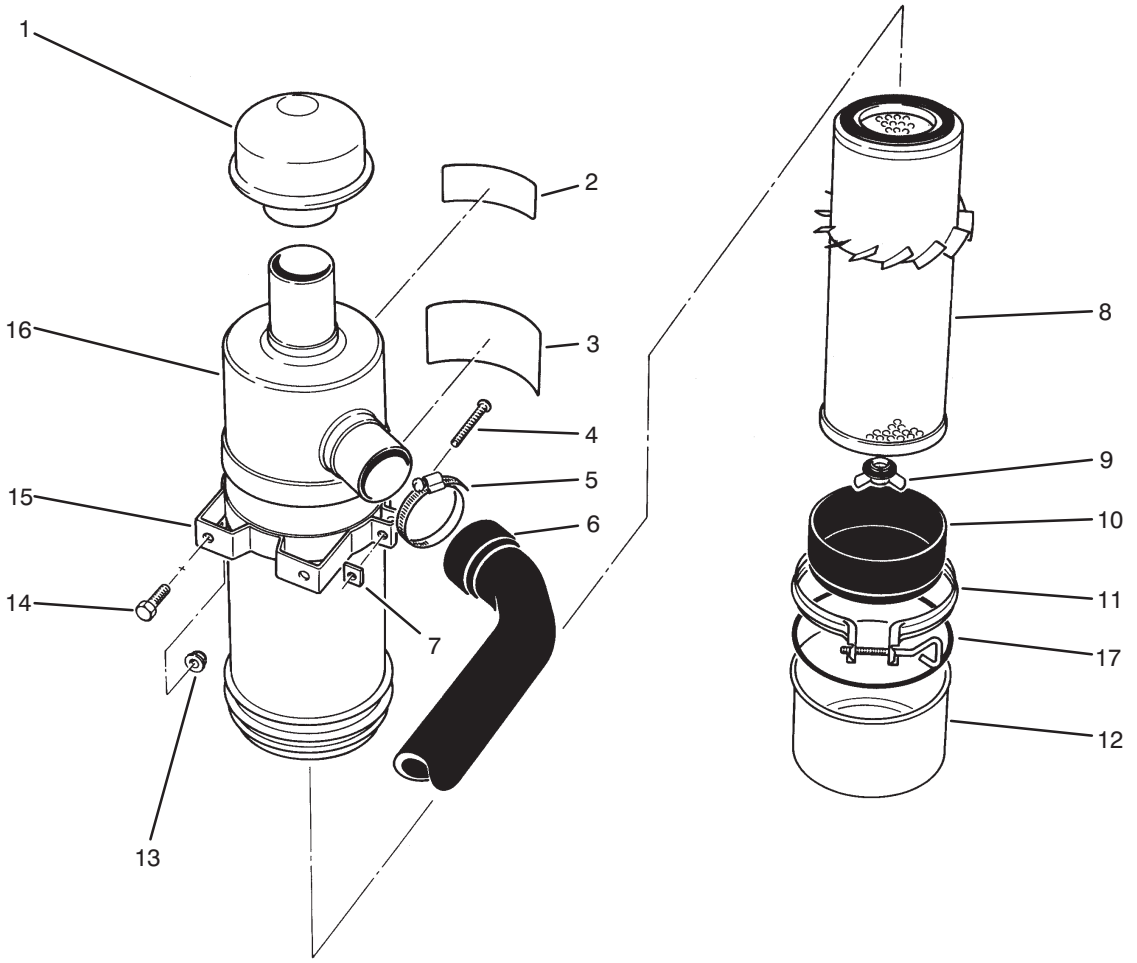


T—0616

STARTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70—8760	Starter Assembly (Incl. Ref. #3—24)	1
2	67—4610	Bolt & Washer	2
3	56—1510	Screw — Set	1
4	70—8770	Front Basket Assembly	1
5	67—4720	Lever Assembly	1
6	67—4730	Spring Set	1
7	70—8780	Center Bracket Assembly	1
8	67—4750	Switch Assembly	1
9	52—1570	Bolt Set	1
10	56—1680	Cover Set	1
11	56—1670	Gear	1
12	67—4790	Shaft Assembly	1
13	67—4780	Gear Set (Incl. Ref. #11 & 12)	1
14	56—1640	Stopper Set	1
15	67—4770	Pinion Set (Incl. Ref. #14)	1

Ref. No.	Part No.	Description	No. Used
16	67—4760	Shaft Assembly (Incl. Ref. #10, 13 & 15)	1
17	56—1610	Bolt	1
18	56—1720	Rear Bracket Assembly	1
19	56—1700	Brush Holder Assembly (Incl. Ref. #20)	1
20	56—1710	Spring — Brush	4
21	67—4800	Yoke Assembly	1
22	56—1600	Bearing — Rear	1
23	56—1580	Armature Set (Incl. Ref. #22 & 24)	1
24	56—1590	Bearing — Front	1
25	57—6390	Nut — Hex.	2
26	42—9850	Washer — Lock	2
27	3290—379	Tie — Cable	2

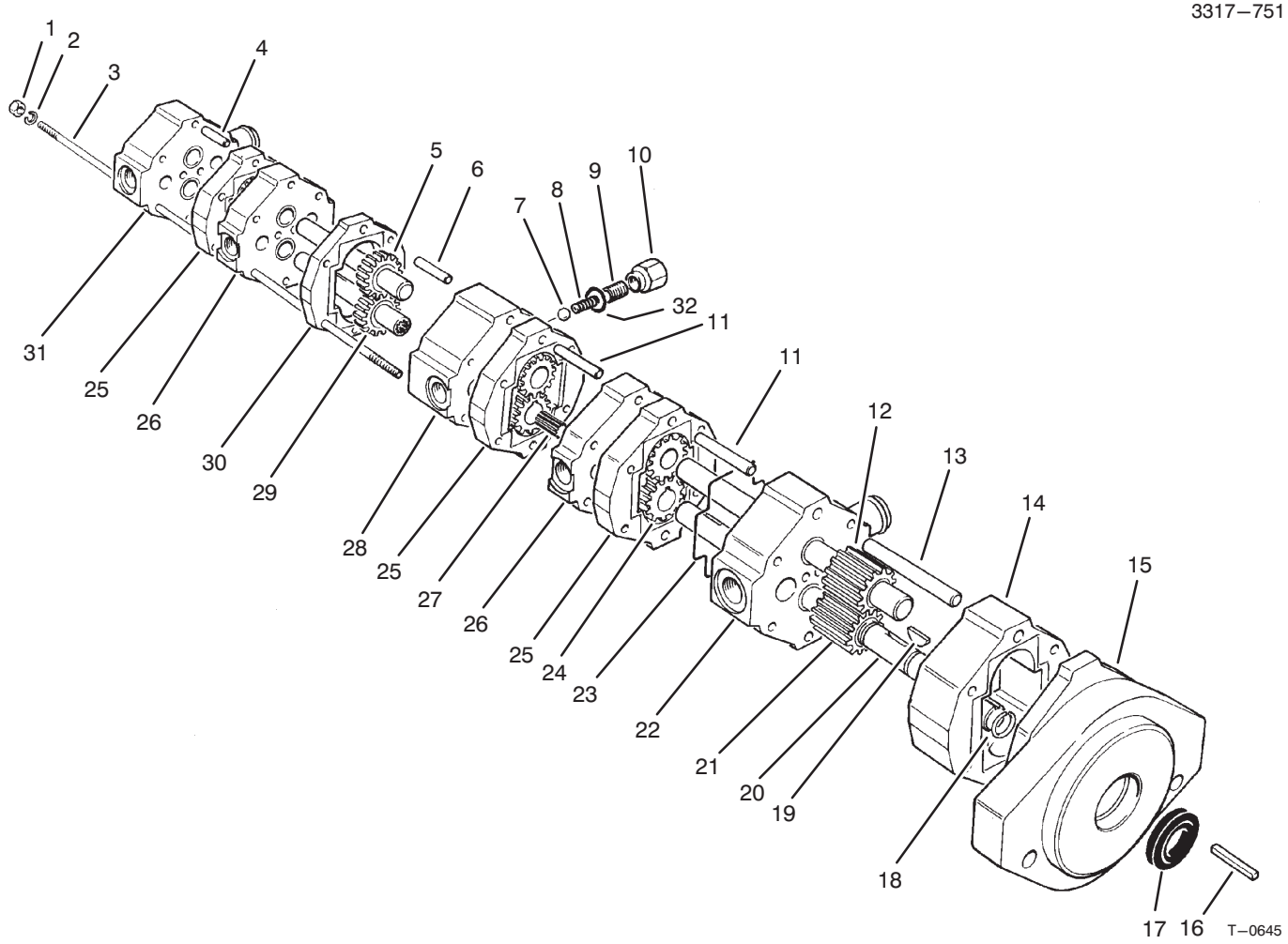


T–0636

AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	27–7180	Cap – Inlet, Air Cleaner	1
2	67–1700	Decal – Fluid, Starting	1
3	27–7160	Decal – Instructions	1
4	3258–19	Screw – Round Head	2
5	2412–42	Clamp – Hose	2
6	68–5900	Hose – Cleaner, Air	1
7	32107–11	Nut	2
8	27–7110	Element – Cleaner, Air	1
9	27–7120	Nut & Gasket Assembly	1
10	27–7140	Skirt – Baffle	1

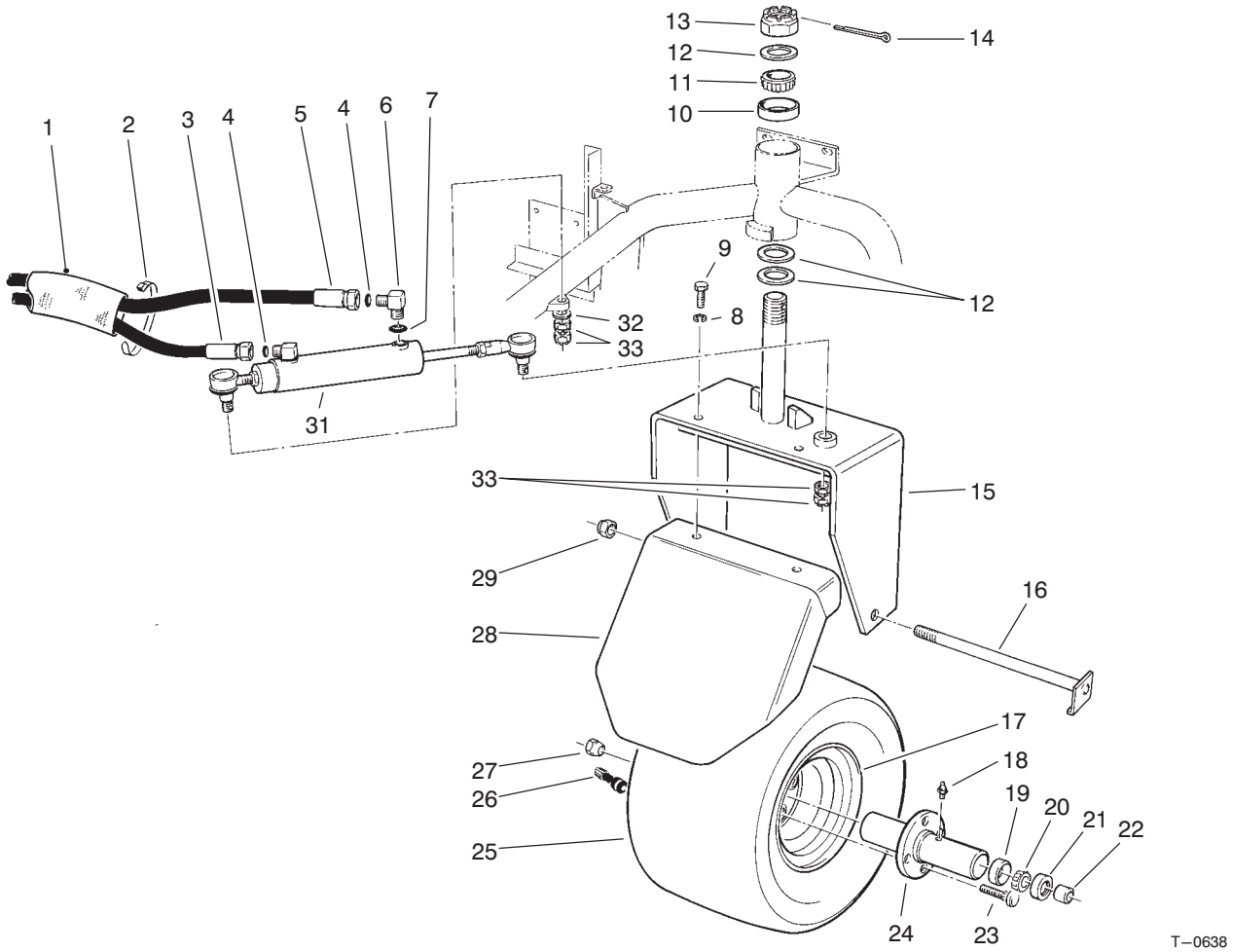
Ref. No.	Part No.	Description	No. Used
11	27–7130	Clamp Assembly	2
12	27–7150	Cap Assembly	1
13	32128–20	Nut – Lock, Flange	4
14	322–2	Screw – Cap, Hex. Hd.	4
15	27–7170	Band Assembly (Incl. Ref. #4 & 7)	2
16	27–7100	Air Cleaner Assembly (Incl. Ref. #3 & 8–12)	1
17	80–3330	Gasket	1



HYDRAULIC PUMP 68—4940

Ref. No.	Part No.	Description	No. Used
1	3217—6	Nut — Lock	4
2	354—16	Washer — Lock	4
3	354—17	Stud — Threaded	4
4	354—11	Pin — Dowel	2
5	354—9	Idler Shaft — Gear Assy.	1
6	354—12	Pin — Dowel	2
7		Ball — Valve	1
8		Spring — Compression	1
9		Adjuster — Valve	1
10		Cap — Adjuster, Valve	1
11	354—13	Pin — Dowel	4
12	354—10	Ider Shaft — Gear Assy.	1
13	354—14	Pin — Dowel	2
14	353—971	Plate — Gear 66B	1
15	354—2	Body Assembly	1
16	5—0946	Key — Square	1
17	354—15	Seal — Shaft	1

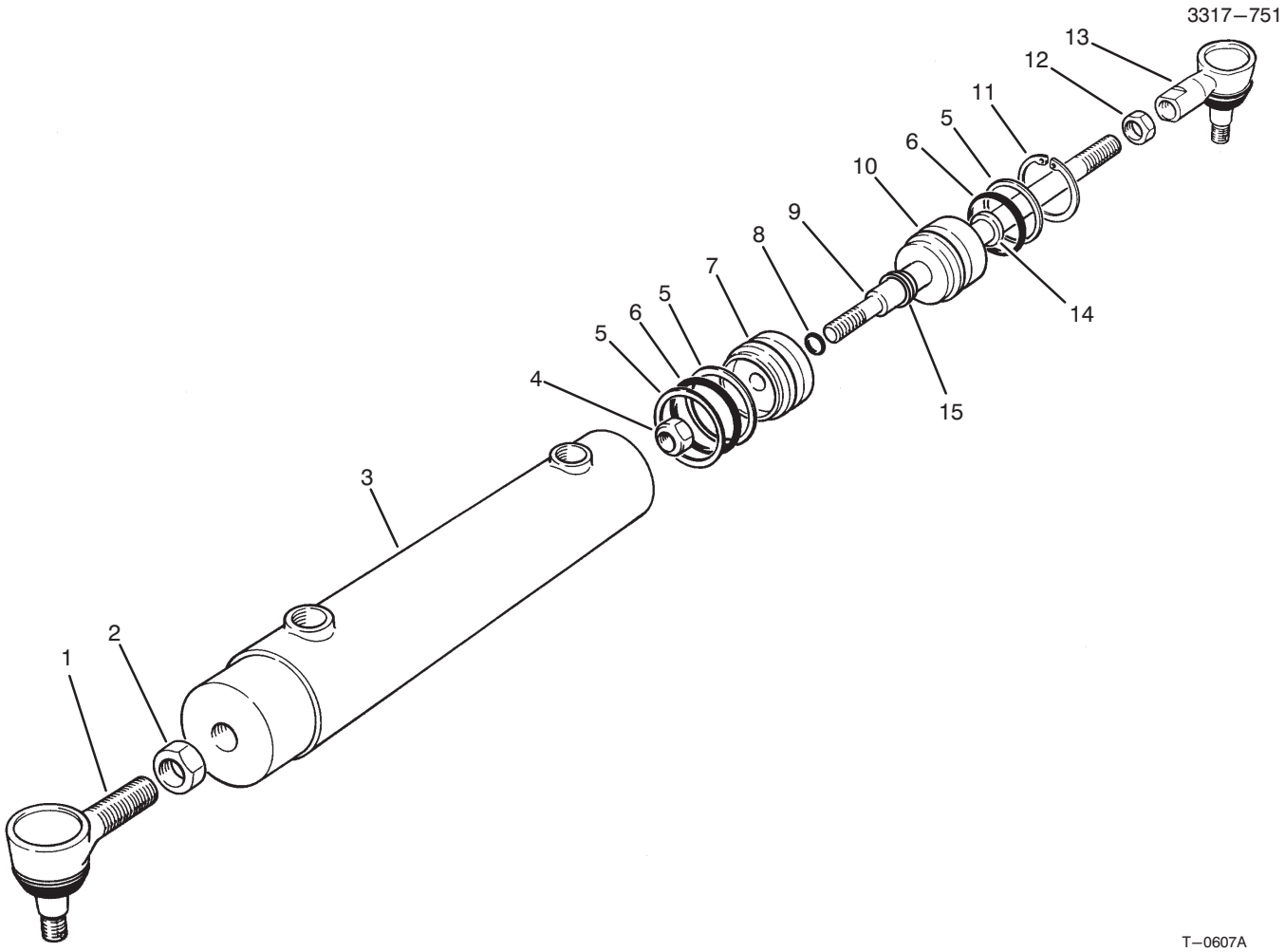
Ref. No.	Part No.	Description	No. Used
18	353—886	Ring — Retaining	2
19	353—884	Key — Woodruff	4
20	354—1	Shaft — Drive	1
21	353—964	Gear — 66B	1
22	354—3	Bearing Plate Assembly	1
23	353—922	Seal — Ring	10
24	353—967	Gear — 33B	6
25	353—969	Plate — Gear 33B	3
26	353—923	Bearing Plate Assembly	2
27	354—5	Adapter — Splined	1
28	354—4	Bearing Plate Assembly (Incl. Ref. #7—10 & 32)	1
29	354—8	Drive Shaft — Gear Assy.	1
30	354—6	Plate — Gear 18B	1
31	354—7	Cover Assembly	1
32	354—35	Gasket	1



REAR WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	56–7983	Sleeve – Protective	1
2	3290–378	Tie – Cable	2
3	68–5750	Hose – Steering, Cyl. Base	1
4	237–35	O–Ring	2
5	68–5760	Hose – Steering, Cyl. Rod	1
6	340–132	Fitting – Hydraulic (Incl. Ref. #4 & 7)	2
7	237–78	O–Ring	2
8	3253–4	Washer – Lock	2
9	322–3	Screw – Cap, Hex. Hd.	2
10	254–61	Cup – Bearing	2
11	254–70	Cone – Bearing	2
12	18–6320	Washer – Thrust	3
13	32136–9	Nut – Castle	1
14	3272–37	Pin – Cotter	1
15	70–8330	Fork – Caster	1
16	70–8370	Bolt – Wheel, Castor	1

Ref. No.	Part No.	Description	No. Used
17	242–86	Rim	1
18	302–5	Fitting – Grease	1
19	254–79	Cup – Bearing	2
20	254–78	Cone – Bearing	2
21	253–111	Seal – Bearing	2
22	70–8490	Spacer	2
23	10–6830	Stud – Drive	4
24	75–9440	Hub Assembly (Incl. Ref. #18, 19 & 23)	1
25	70–8500	Tire	1
26	232–24	Stem – Valve	1
27	242–50	Nut – Lock	4
28	70–8400	Fender – Rear	1
29	3296–67	Nut – Lock	1
31	68–4770	Cylinder – Steering, Hyd.	1
32	3256–24	Washer – Flat	1
33	3220–3	Nut – Jam	4

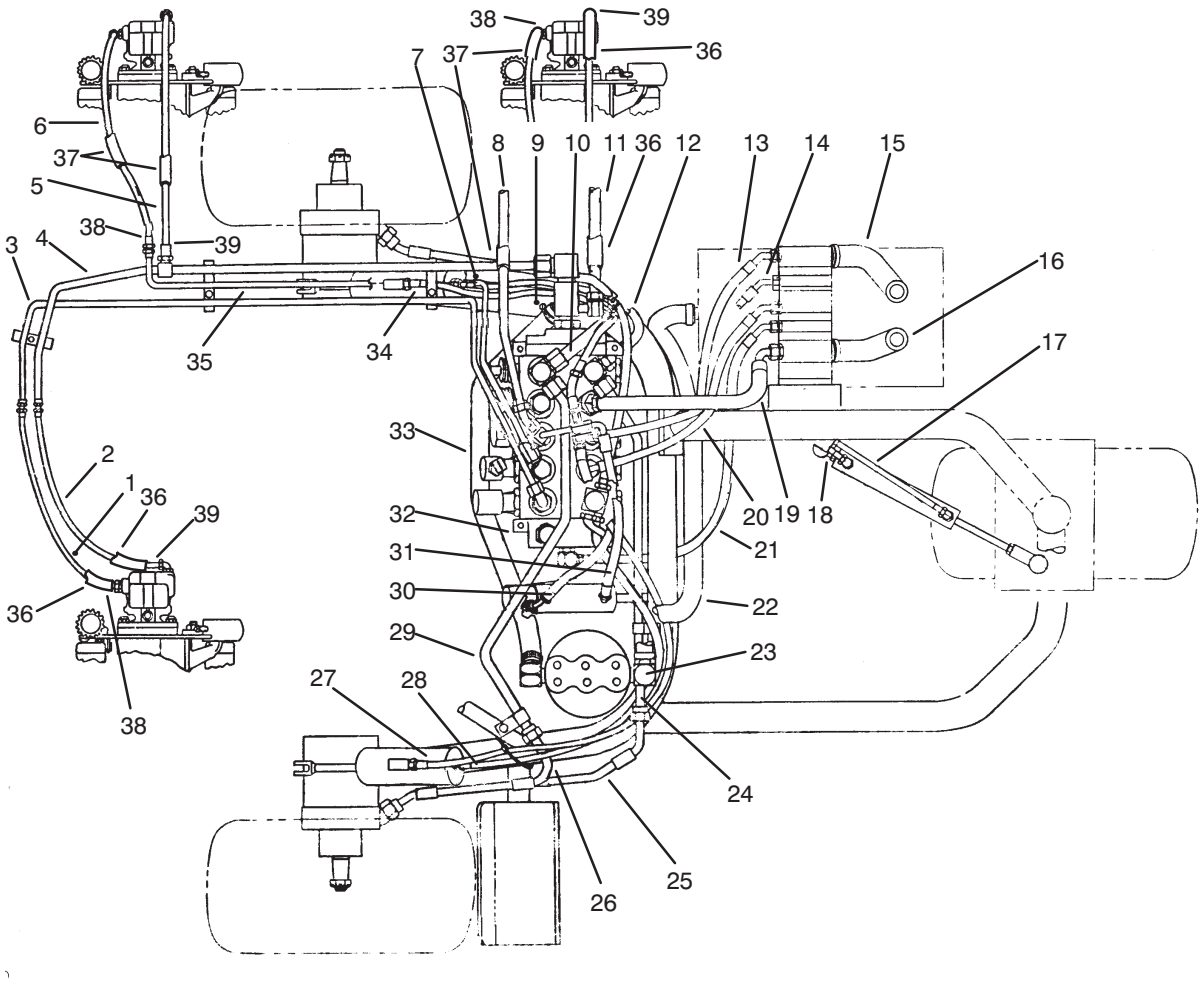


HYDRAULIC STEERING CYLINDER

Ref. No.	Part No.	Description	No. Used
1	21–0140	Joint – Ball	1
2	3219–5	Nut – Jam	1
3	68–4820	Barrel	1
4	32152–7	Nut – Lock	1
5		Washer – Backup	3
6		O–Ring	2
7	68–4790	Piston – Cylinder	1
8		O–Ring	1
9	68–4800	Shaft – Cylinder	1
10	68–4780	Head – Cylinder	1

Ref. No.	Part No.	Description	No. Used
11	68–4810	Ring – Retaining	1
12	3218–5	Nut – Jam	1
13	68–5150	Joint – Ball	1
14		Seal – Dust	1
15		Seal – Rod	1
*	92–8851	Cylinder Repair Kit (Incl. Ref. #5–6, 8, 14 &15)	1
*	68–4770	Hydraulic Steering Cylinder (Incl. Ref. #3–11 & 14–15)	1

3317–751



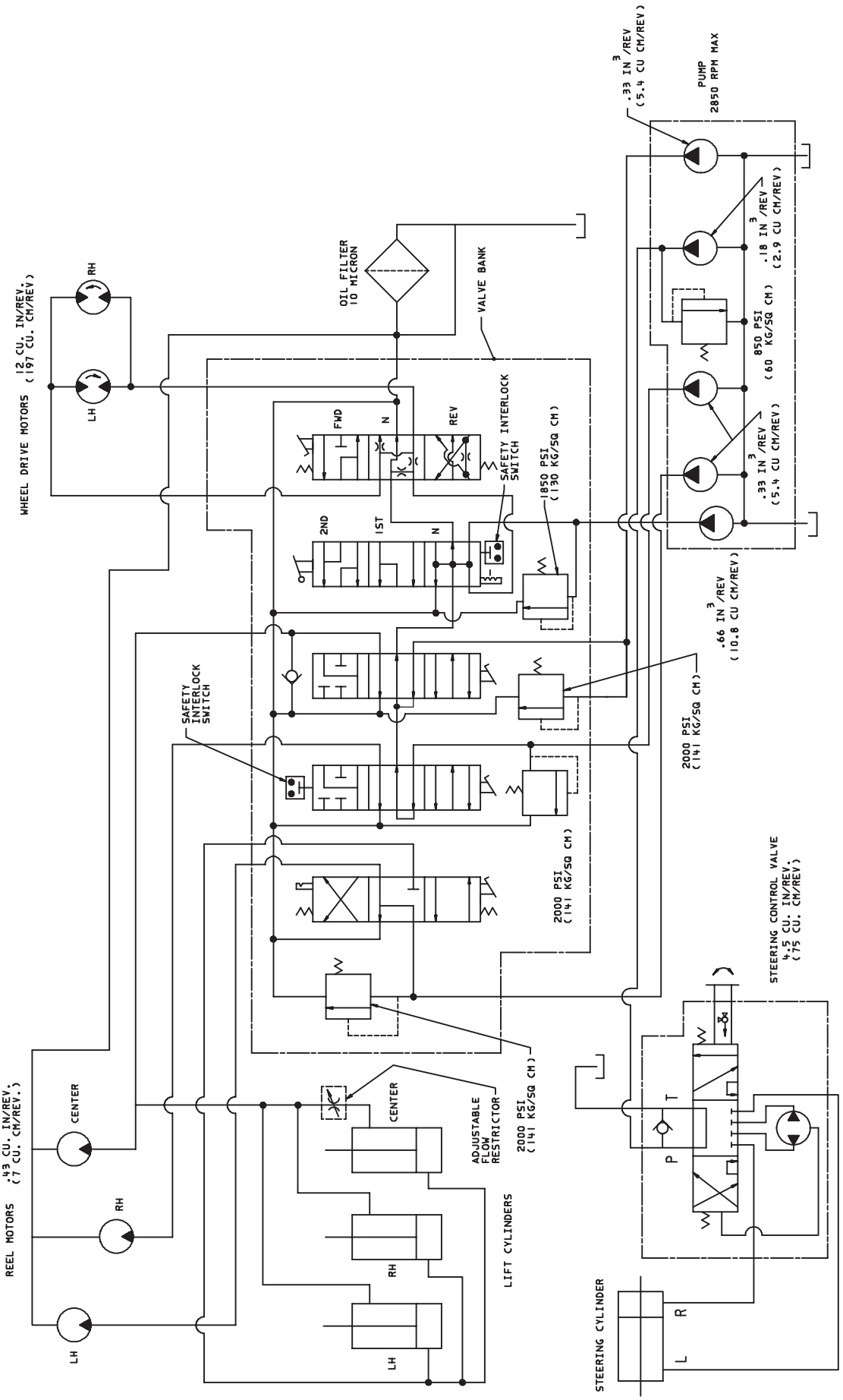
T–2170

HYDRAULIC SYSTEM ASSEMBLY

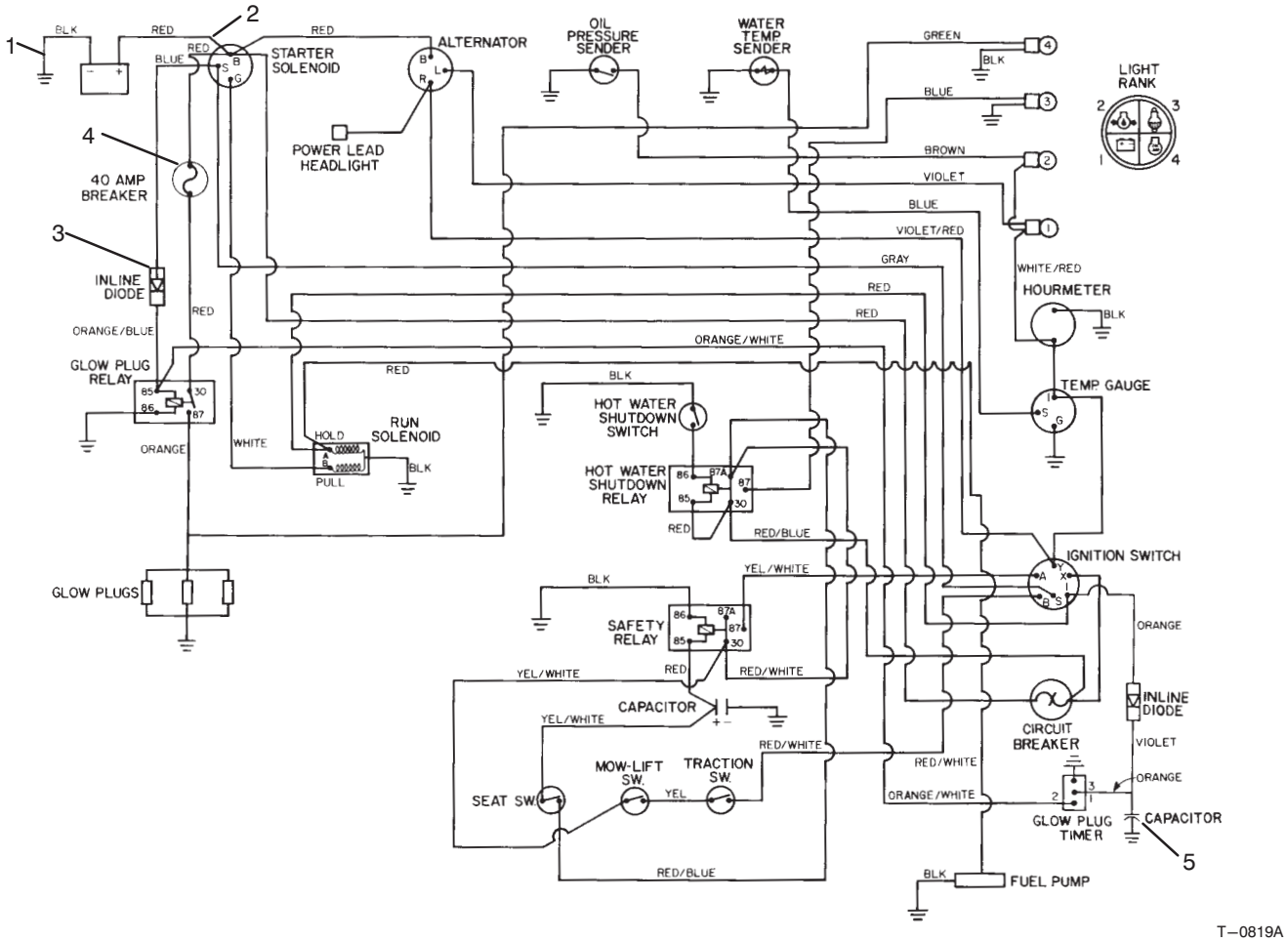
Ref. No.	Part No.	Description	No. Used
1	63–3870	Hose – Pressure, LH (Incl. Ref. #36 & 38)	1 1
2	63–3830	Hose – Return, LH (Incl. Ref. #36 & 39)	1
3	63–4020	Tube – Pressure, LH	1
4	63–4040	Tube – Return	1
5	63–3820	Hose – Return, RH (Incl. Ref. #37 & 39)	1
6	63–3810	Hose – Pressure, RH (Incl. Ref. #37 & 38)	1
7	63–3880	Hose – Cyl. Lift, RH & Rear	1
8	74–3830	Hose – Pressure, Rear (Incl. Ref. #37 & 39)	1
9	2412–3	Clamp – Hose	12
10	70–8600	Hose – Hyd. Upper, RH	1
11	63–3840	Hose – Return, Rear (Incl. Ref. #36 & 39)	1
12	83–2460	Hose	1
13	68–5850	Hose – Pump	1
14	68–5840	Hose – Pump, Steering	1
15	68–5870	Hose – Pump, Inlet RH	1
16	68–5860	Hose – Pump, Inlet LH	1
17	68–5760	Hose – Steering, Cyl. Rod	1

Ref. No.	Part No.	Description	No. Used
18	68–5750	Hose – Steering, Cyl. Base	1
19	68–5810	Hose – Pump	1
20	68–5770	Hose – Pump	1
21	68–5710	Hose – Pump	1
22	68–5890	Hose – Return, Filter	1
23	353–564	Fitting 90°	2
24	83–1200	Tube – Hydraulic	1
25	70–7150	Hose – Hyd. Lower, LH	1
26	70–8610	Hose – Hyd. Upper, LH	1
27	63–3850	Hose – Cylinder, Drop LH	1
28	63–3890	Hose – Cylinder, Lift LH	1
29	70–7130	Tube – Traction, LH Upper	1
30	84–8260	Hose – Cylinder, Lift Rear	1
31	68–5830	Hose – Cylinder, Drop Rear	1
32	84–2203	Control Valve Assembly	1
33	68–5880	Return Line – Manifold/Filter	1
34	63–3950	Hose – Cylinder, Drop RH	1
35	63–4030	Tube – Pressure RH	1
36	56–7981	Sleeve – Protective	3
37	56–7980	Sleeve – Protective	3
38	93–9346	Clamp – Hose, Pressure	6
39	93–9347	Clamp – Hose, Return	6

HYDRAULIC SCHEMATIC



T–1553



T–0819A

ELECTRICAL SCHEMATIC

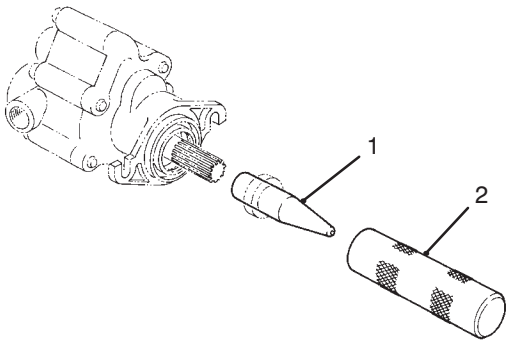
Ref. No.	Part No.	Description	No. Used
1	92–1190	Cable – Battery, Negative	1
2	92–1191	Cabe – Battery, Positive	1
3	86–7470	Diode – Inline	2
4	70–8570	Breaker – Circuit	1

Ref. No.	Part No.	Description	No. Used
5	92–3057	Capacitor Assembly	1
*	92–2360	Wire Harness Assembly (Incl. Ref. #3 & 4)	1

*Not Illustrated

SPECIAL TOOLS

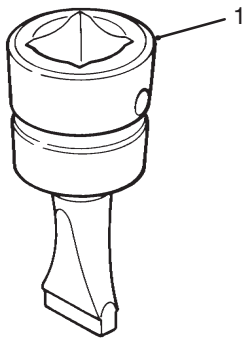
REEL MOTOR SEAL INSTALLATION TOOLS



T–0727

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

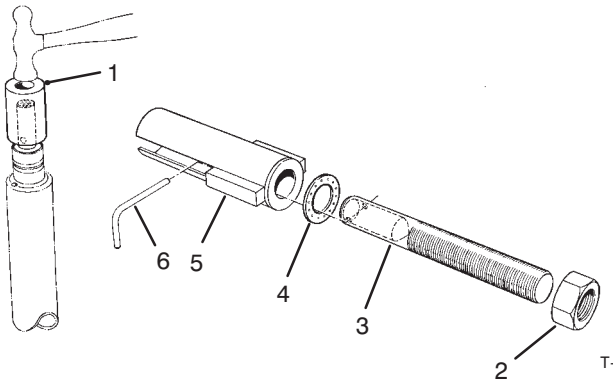
BED KNIFE SCREW TOOL NO. TOR510880



T–0729

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

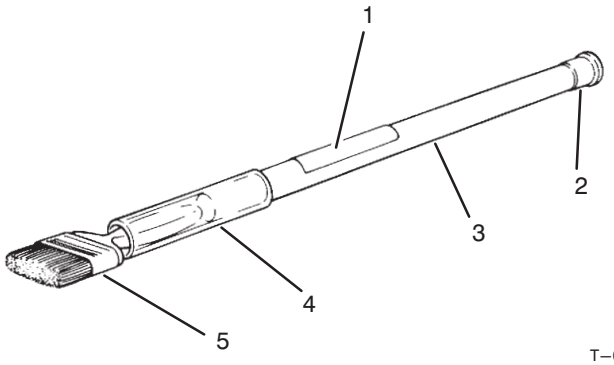
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



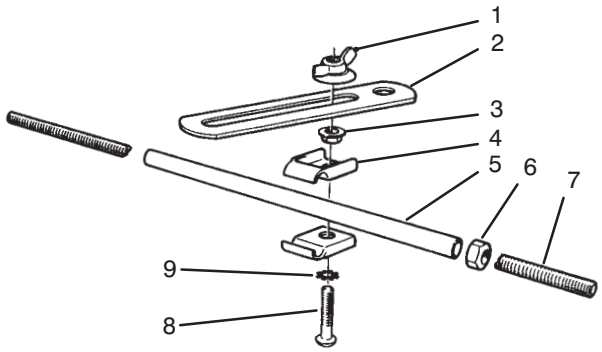
T–0731

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

TORO PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.
3–0348	Bushing – Sleeve	5	30	6
3–0348	Bushing – Sleeve	8	31	6
3–0348	Bushing – Sleeve	2	35	6
3–1506	Bushing – Flange	2	71	12
3–4808	Nut – Wing	46	1	1
3–6657	Clip – Skid	46	4	2
3–6685	Spring – Compression	22	38	1
5–0946	Key – Square	39	16	1
5–1226	Washer – Shim	2	37	2
5–1226	Washer – Shim	6	57	2
5–1228	Washer – Shim	9	75	2
5–3637	Washer – Flat	28	27	1
8–7710	Ball Joint Receiver Assy.	2	68	6
10–6060	Pin – Cylinder, Pivot	1	27	2
10–6090	Pin – Pivot	8	37	1
10–6090	Pin – Pivot	5	41	1
10–6090	Pin – Pivot	2	60	1
10–6110	Pin – Hinge	1	32	2
10–6820	Brake Drum Assembly	6	55	2
10–6830	Stud – Drive	40	23	4
10–6870	Hub – Wheel	5	5	2
10–7820	Pivot Hinge Assembly	2	34	1
10–7820	Pivot Hinge Assembly	5	34	1
10–7820	Pivot Hinge Assembly	8	34	1
10–7850	Latch – Brake, Parking	2	83	1
10–7880	Hinge – Upper, Park. Brake	2	84	1
10–7890	Hinge – Lower, Park Brake	2	81	1
10–8100	Strap – Shaft, Brake	2	55	2
10–8110	Washer – Thrust	5	29	6
10–8110	Washer – Thrust	8	35	6
10–8110	Washer – Thrust	2	36	6
10–8140	Spring – Latch, Brake	2	82	1
10–8220	Pad – Tool Box	5	23	1
11–0160	Screw Assy. – Shaft, Roller	2	78	6
12–3270	Screw – Hex. Flange Hd.	8	17	2
12–3270	Screw – Thread Forming	11	9	6
12–3270	Screw – Washer Hd.	25	47	1
12–9140	Decal	45	1	1
17–9420	Screw – Stop, Accelerator	9	64	1
18–6320	Washer – Thrust	40	12	3
20–0070	Tube	46	5	1
20–0080	Rod	46	7	1
20–0110	Bracket – Alignment	46	2	1
21–0140	Joint – Ball	41	1	1
21–8470	Shaft – Yoke, Roller	2	72	3
22–6090	Washer – Thrust	45	4	1
23–8840	Puller – Bolt	45	3	1
23–8850	Tube – Support	45	5	1
23–8860	Pin – Bearing Rplcmnt.	45	6	1
23–8880	Driver – Bearing	45	1	2
26–3790	Nut – Lock	5	4	2
27–1960	Hub	25	48	1
27–1970	Hub	26	50	1
27–2270	Rod – Adjustment, Brake	2	54	2
27–2320	Bearing – Side Flange	8	12	2
27–2320	Bearing – Side Flange	3	96	2
27–2360	Switch – Key	14	21	1
27–2380	Spacer – Mount, Filter	15	20	1
27–2400	Strap – Reservoir	15	28	2
27–2420	Felt – Angle	15	42	2
27–2540	Spacer – Hub	9	76	1
27–2550	Pin – Hinge	9	57	1
27–2830	Decal – Brake, Parking	3	87	1
27–3030	Felt – Strap	16	78	2
27–6600	Spacer	25	49	4
27–7100	Air Cleaner Assembly	38	16	1
27–7110	Element – Cleaner, Air	38	8	1
27–7120	Nut & Gasket Assembly	38	9	1
27–7130	Clamp Assembly	38	11	2
27–7140	Skirt – Baffle	38	10	1
27–7150	Cap Assembly	38	12	1
27–7160	Decal – Instructions	38	3	1
27–7170	Band Assembly	38	15	2
27–7180	Cap – Inlet, Air Cleaner	38	1	1
28–3680	Tire	5	2	2
29–9080	Handle	45	3	1
29–9090	Hose – Handle	45	4	1
31–0390	Washer – Friction	11	48	4
36–4310	Brush	45	5	1
37–2690	Capacitor	22	35	1
38–0410	Nut – Hex.	19	53	1
38–0410	Nut – Hex.	21	59	1
39–9600	Clamp – Mounting	14	22	1
42–2680	Race R. Detent	18	46	1
42–7080	Cap	32	2	2
42–7190	Bushing	30	33	1
42–7210	Plug	29	16	1
42–7290	Gasket – Drain, Oil	29	13	2
42–7510	Pipe	33	4	1
42–7510	Pipe	33	9	1
42–7840	Key	32	17	1
42–7860	Lock	31	31	12
42–7870	Seal	31	28	6
42–8240	Gasket	35	6	3
42–8690	Metal – Sealing	34	34	1
42–8700	Wire	34	35	1
42–8830	O–Ring	34	6	2
42–9110	Gasket	33	21	1
42–9110	Gasket – Muffler	25	22	1
42–9260	Plug	29	12	1
42–9420	Bolt	34	31	2
42–9430	Bolt & Washer	33	7	1
42–9430	Bolt & Washer	34	11	2
42–9440	Bolt & Washer	29	6	11
42–9440	Bolt & Washer	28	24	1
42–9440	Bolt & Washer	31	25	4
42–9490	Bolt & Washer	27	11	4
42–9490	Bolt & Washer	32	11	2
42–9490	Bolt & Washer	29	15	18
42–9510	Bolt	31	39	1
42–9570	Stud	33	22	4
42–9590	Nut	31	17	6
42–9640	Nut – Jam	34	9	2
42–9650	Nut – Jam	30	30	1
42–9660	Washer	28	4	1
42–9660	Washer	31	36	3
42–9850	Washer – Lock	25	23	4
42–9850	Washer – Lock	37	26	2
43–0370	Shim	28	5	1
43–0510	Spring – Brush	28	14	2
43–1920	Nut – Special	28	17	1
43–2550	Filter	30	18	1
43–2560	Gasket	30	19	1
43–2570	Gasket	30	17	1
43–2580	Magnet	30	20	1
43–2710	O–Ring	33	35	2
43–2740	Gasket – Solenoid	25	21	1
43–2750	Nut – Jam	25	19	1
43–5220	Ring – Retaining	10	10	1
43–5230	Shaft/Clevis	10	11	1
43–5920	Washer – Lock	28	28	1
43–5970	Nut – Hex.	28	29	1
43–8600	Spring – Compression	22	43	1
43–8610	Guide – Spring & Ball Seat	22	42	1
43–8620	Guide – Pin, Switch	22	45	1
43–8860	Plunger – Switch	22	44	1
43–8870	Boot – Switch	22	48	1
43–9071	Switch Assembly	23	*	1
44–0870	Camshaft – Rear	8	13	1
44–2230	Coupling – Rubber	25	12	1
44–2500	Dye – Hydrauulic Oil	16	*	1
44–5560	Head – Filter, Hydraulic	16	47	1
47–5320	Lever – Cutting Control	8	10	1
47–6990	Nut – Lock	11	4	1
48–7630	Screw – Cap, Metric	26	70	1
48–7930	Nut	25	24	4

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
48–8010	Washer – Flat	26	71	1
48–8020	Washer – Lock	26	72	1
48–9590	Washer – Lock	25	43	18
49–5410	Box – Tool	5	24	1
49–5430	Rod – Control	5	21	1
49–5450	Plate – Cover	5	13	1
49–5840	Support – Seat	11	40	1
49–5880	Shaft – Support, Seat	11	35	1
49–6110	Guard – Rod, Transfer	3	94	1
49–6120	Pad – Footrest	1	15	1
49–6200	Lever – Cutting Control	1	2	1
49–6220	Bracket – Control Arm	8	15	1
49–6250	Bracket – Pivot, Traction	9	55	1
49–6260	Traction Pivot Tube Assy.	8	16	1
49–6290	Shaft – Pivot, Traction	8	18	1
49–6320	Rod – Control, Traction	8	3	1
49–6430	Pad – Pedal Reverse	8	8	1
49–6440	Pedal – Accelerator	8	6	1
49–6470	Pad – Pedal Forward	8	5	1
51–0010	Decal – Traction	11	41	1
51–0350	Pin – Spring, Seat	22	37	1
51–0780	Slide – Seat	11	13	1
51–0790	Adjuster – Seat	11	28	1
52–1570	Bolt Set	37	9	1
52–1880	Adapter – Fitting, Fuel	22	52	1
52–1890	Wellnut – Rubber	22	33	1
52–1990	Piston	4	4	1
52–2720	Roller Assembly	2	73	3
52–5860	Collar – Spool	20	51	1
52–5880	Ball – Steel	18	47	12
52–5900	Screw – Fillister Hd.	20	37	4
52–9230	Ring – Retaining	13	2	1
52–9260	Screw – Set	13	26	1
52–9270	Seat – Ball Check	13	24	1
52–9280	Ball – Check	13	22	1
52–9290	Retainer – Ball Check	13	21	1
53–8150	Pump – Fuel	22	19	1
53–8150	Pump Assembly	30	21	1
53–9880	Washer	22	51	1
54–8660	Washer	28	25	1
55–3577	Cap – Fuel	22	9	1
55–8480	Reservoir – Hydraulic	15	29	1
56–0020	Plug	30	12	1
56–0020	Plug	32	21	2
56–0020	Plug – Expansion	33	18	1
56–0100	Plug	30	37	1
56–0220	Pin	30	35	2
56–0480	Key – Woodruff	32	8	1
56–0480	Key – Woodruff	31	18	2
56–1060	Ring – Snap	32	15	1
56–1230	Shaft – Filter, Oil	30	28	1
56–1510	Screw – Set	37	3	1
56–1580	Armature Set	37	23	1
56–1590	Bearing – Front	37	24	1
56–1600	Bearing – Rear	37	22	1
56–1610	Bolt	37	17	1
56–1640	Stopper Set	37	14	1
56–1670	Gear	37	11	1
56–1680	Cover Set	37	10	1
56–1700	Brush Holder Assembly	37	19	1
56–1710	Spring – Brush	37	20	4
56–1720	Rear Bracket Assembly	37	18	1
56–2230	Hose – Fuel	22	7	1
56–2520	Valve – Shutoff, Fuel	22	16	1
56–7970	Clamp – Tube	3	88	2
56–7980	Sleeve – Protective	16	68	3
56–7980	Sleeve – Protective	42	37	3
56–7981	Sleeve – Protective	16	71	3
56–7981	Sleeve – Protective	42	36	3
56–7983	Sleeve – Protective	40	1	1
56–7983	Sleeve – Protective	12	57	1
56–7984	Sleeve – Protective	26	57	1
56–7986	Sleeve – Protective	16	74	1
56–7987	Sleeve – Protective	16	75	1
57–6140	Clamp – Tube, Side	5	14	4
57–6220	Link – Connector	16	56	5
57–6390	Nut – Hex.	37	25	2
57–7650	Spring – Torsion	5	36	1
57–7650	Spring – Torsion	8	40	1
57–7650	Spring – Torsion	2	46	1
58–5830	Hose – Hydraulic	8	29	1
58–6530	Decal – Oil	15	30	1
59–6730	Race – Bearing	13	8	2
59–6740	Bearing – Needle Thrust	13	9	1
59–6830	Centering Pin Kit	13	20	1
59–9740	Latch Assembly	24	28	2
62–2390	Bar – Lift, LH	2	47	1
62–2420	Bar – Arm, Lift	8	41	1
62–2420	Bar – RH Arm, Lift	5	37	1
62–2440	Lift Arm Assembly RH	5	31	1
62–2460	Lift Arm Assembly – LH	2	38	1
62–2570	Cap – Breather	15	32	1
62–2580	Spacer (Optional)	5	*	2
62–2610	Screen Assembly	15	35	1
62–2660	Pad – Step	1	30	1
62–5070	Decal – Danger	6	50	1
62–5070	Decal – Danger	9	60	1
62–5070	Decal – Danger	2	61	1
62–5550	Decal – TORO	11	30	2
63–3810	Hose – Pressure, RH	16	67	1
63–3810	Hose – Pressure, RH	42	6	1
63–3820	Hose – Return, RH	16	64	1
63–3820	Hose – Return, RH	42	5	1
63–3830	Hose – Return, LH	16	65	1
63–3830	Hose – Return, LH	42	2	1
63–3840	Hose – Return, Rear	16	70	1
63–3840	Hose – Return, Rear	42	11	1
63–3850	Hose – Cylinder	1	25	1
63–3850	Hose – Cylinder, Drop LH	42	27	1
63–3870	Hose – Pressure, LH	16	66	1
63–3870	Hose – Pressure, LH	42	1	1
63–3880	Hose – Cyl. Lift, RH & Rear	42	7	1
63–3890	Hose – Cylinder, Lift LH	1	26	1
63–3890	Hose – Cylinder, Lift LH	42	28	1
63–3950	Hose – Cylinder, Drop RH	1	19	1
63–3950	Hose – Cylinder, Drop RH	42	34	1
63–4020	Tube – Hydraulic	42	3	1
63–4030	Tube – Pressure RH	42	35	1
63–4040	Tube – Return	42	4	1
63–4050	Fitting – Traction, Upper	15	12	2
63–4060	Tube Assembly	15	10	1
63–7140	Mount – Shock	25	38	4
63–7380	Tank – Reserve	24	34	1
63–7400	Washer – Rebound	25	37	4
63–7430	Gauge – Temperature	14	3	1
63–7440	Solenoid – Stop	25	16	1
63–7590	Relay – SPDT	23	55	2
63–7622	Hose – Fuel	22	18	2
63–7623	Hose – Fuel	22	49	1
63–7790	Screw	25	42	18
63–8280	Head Assembly	22	29	1
63–8290	Fitting – Vent	22	30	1
63–8300	Element – Filter	22	31	1
63–8310	Fitting – Drain	22	32	1
63–8360	Key	14	4	1
63–8440	Decal – Hot Surface	24	44	1
63–8750	Pin – Pivot	8	33	1
63–8750	Pin – Pivot	5	42	1
63–8750	Pin – Pivot	2	45	1
65–4500	Seal – Snap Ring	7	14	1
65–4550	Valve – Ball, Check	7	6	2
65–4560	Plug – Hex. (Hollow)	7	3	1
65–4570	Seal – Square Ring	7	4	2
65–4600	Washer – Thrust	7	19	2
65–4610	Bearing – Thrust	7	20	1
65–4620	O–Ring	7	12	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
65–4640	Key – Square	7	11	1
65–4640	Key – Square	6	49	2
65–4650	Nut – Slotted	7	13	1
65–4690	Seal/Retainer Assembly	7	*	1
65–4700	Body Seal Kit	7	*	1
65–4860	Head	4	10	1
65–5871	Tube	11	17	1
65–5890	Cap – Tube	11	19	2
66–2490	Retainer – Battery	23	60	2
66–2950	Hour Meter	14	1	1
66–2960	Light – Cluster, Warning	14	33	1
66–3240	Cap – Radiator	24	6	1
66–5292	Motor – Hydraulic	6	48	2
66–6840	Decal – Hot Surface	15	37	1
66–6840	Decal – Hot Surface	24	46	1
66–8800	Relay – Glow	23	53	1
67–1690	Fitting	22	20	2
67–1700	Decal – Fluid, Starting	38	2	1
67–2140	Bolt – Flange	33	15	3
67–2200	Seal	32	4	4
67–2210	Plug	30	36	3
67–2220	Guide	30	8	1
67–2230	Seal – Oil	30	14	1
67–2250	Bolt	32	5	8
67–2260	Shaft – Idler	30	34	1
67–2270	Case	30	15	1
67–2280	Gasket	30	13	1
67–2290	Cover	30	10	1
67–2300	Gasket	30	9	1
67–2310	Plate	29	4	1
67–2320	Gasket – Plate	29	5	1
67–2330	Bolt	27	4	2
67–2330	Bolt	30	16	6
67–2330	Bolt	33	33	4
67–2330	Bolt	33	46	2
67–2340	Bolt & Washer	29	3	3
67–2340	Bolt & Washer	30	11	2
67–2340	Bolt & Washer	33	17	2
67–2350	Plug	30	25	1
67–2360	Bushing	30	26	2
67–2370	Bushing	30	32	1
67–2380	Bushing	30	27	3
67–2390	Plug	30	24	1
67–2400	Bearing Set – Std.	32	3	1
67–2410	Bearing Set – 0.25	32	*	1
67–2420	Bearing Set – 0.50	32	*	1
67–2440	Bolt & Washer	30	23	9
67–2460	Bolt	30	29	4
67–2470	Oil Pan Assembly	29	11	1
67–2480	Gasket – Pan, Oil	29	14	1
67–2500	Plunger	29	22	1
67–2510	Spring	29	23	1
67–2520	Plug	29	24	1
67–2530	Gear – Inner	29	10	1
67–2540	Gear – Outer	29	9	1
67–2550	Housing – Pump, Oil	29	8	1
67–2560	Bolt & Washer	29	7	3
67–2570	Plug	29	25	1
67–2570	Plug – Taper	33	19	1
67–2580	Gasket – Case	29	2	1
67–2590	Seal – Oil	29	20	1
67–2600	Bolt	27	6	1
67–2600	Bolt	29	18	3
67–2610	Bolt	27	10	2
67–2610	Bolt	29	19	4
67–2620	Bolt	29	21	1
67–2630	O–Ring	29	17	2
67–2640	Cap	29	26	1
67–2650	Oil Fill Cap Assembly	29	28	1
67–2660	O–Ring	29	27	1
67–2670	Hose – Breather	33	8	1
67–2680	Hanger – Engine	33	16	2
67–2700	Guide – Valve	33	41	6
67–2710	Cap – Sealing	33	40	3
67–2730	Bolt	33	42	8
67–2760	Gasket	33	14	1
67–2770	Nut – Cap	33	12	2
67–2780	Washer	33	13	2
67–2860	Bolt	31	12	6
67–2880	Bearing Set – Std.	31	8	1
67–2890	Bearing Set – 0.25 U.	31	*	1
67–2900	Bearing Set – 0.50 U.	31	*	1
67–2910	Gear	31	7	1
67–2940	Nut – Jam	31	22	1
67–2950	Washer	31	20	1
67–2960	Washer – Lock	31	21	1
67–2970	Flywheel Assembly	31	13	1
67–2980	Gear – Ring	31	15	1
67–2990	Bolt	31	14	4
67–3000	Washer	32	10	2
67–3010	Camshaft	32	7	1
67–3020	Gear	32	12	1
67–3030	Bearing	32	9	2
67–3040	Plate	32	14	1
67–3040	Ring – Snap	31	3	2
67–3050	Bearing	32	19	1
67–3060	Shaft	32	18	1
67–3070	Gear	32	16	1
67–3080	Ring – Snap	32	20	1
67–3090	Gear Assembly	32	13	1
67–3100	Retainer	31	30	6
67–3110	Spring	31	29	6
67–3120	Tappet	31	6	6
67–3130	Valve – Intake	31	26	3
67–3140	Valve – Exhaust	31	27	3
67–3150	Rod – Push	31	5	6
67–3160	Arm – Rocker	31	1	6
67–3170	Spring	31	37	2
67–3180	Cap	31	32	6
67–3190	Rocker Shaft Assembly	31	35	1
67–3200	Stay – Rocker	31	33	3
67–3210	Screw – Adjusting	31	4	6
67–3220	Pin	31	34	1
67–3230	Nut – Jam	31	2	6
67–3250	Bolt – Stay, Rocker	31	40	2
67–3260	Washer	28	3	1
67–3260	Washer	34	8	2
67–3260	Washer	31	38	3
67–3280	Shim – 0.2	30	38	1
67–3290	Shim – 0.3	30	*	1
67–3300	Shim – 0.4	30	*	1
67–3310	Shim – 0.5	30	*	1
67–3320	Shim – 0.6	30	*	1
67–3330	Shim – 0.7	30	*	1
67–3340	Shim – 0.8	30	*	1
67–3350	Shim – 0.9	30	*	1
67–3360	Shim – 1.0	30	*	1
67–3370	Bolt & Washer	30	39	4
67–3380	Nozzle & Holder Assembly	36	*	3
67–3380	Nozzle & Holder Assembly	30	6	1
67–3390	Gasket	30	7	3
67–3400	Pipe Assembly No.1	30	42	1
67–3410	Pipe Assembly No.2	30	43	1
67–3420	Pipe Assembly No. 3	30	1	1
67–3430	Nut	30	2	3
67–3440	Gasket	30	4	3
67–3460	Housing – Pump	35	9	1
67–3470	Holder – Delivery Valve	35	3	3
67–3480	O–Ring	35	4	3
67–3490	Spring	35	5	3
67–3500	Valve	35	7	3
67–3520	Sleeve	35	10	3
67–3530	Seat	35	11	3
67–3540	Spring	35	12	3
67–3550	Seat	35	13	3
67–3560	Plate – Shim 1.85	35	14	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
67–3570	Plate – Shim 1.9	35	*	1
67–3580	Plate – Shim 1.95	35	*	1
67–3590	Plate – Shim 2.0	35	*	1
67–3600	Plate – Shim 2.05	35	*	1
67–3610	Plate – Shim 2.1	35	*	1
67–3620	Plate – Shim 2.15	35	*	1
67–3630	Plate – Shim 2.2	35	*	1
67–3640	Plate – Shim 2.25	35	*	1
67–3650	Plate – Shim 2.3	35	*	1
67–3660	Plate – Shim 2.35	35	*	1
67–3670	Plate – Shim 2.4	35	*	1
67–3680	Plate – Shim 2.45	35	*	1
67–3690	Plate – Shim 2.5	35	*	1
67–3700	Tappet Assembly	35	15	3
67–3710	Screw – Bleed, Air	35	24	1
67–3720	Washer	35	23	1
67–3730	Screw	35	22	1
67–3740	Nipple	35	21	1
67–3750	Washer	35	20	2
67–3760	Plate – Lock	35	2	3
67–3770	Screw & Washer	35	1	3
67–3780	Rack Assembly	35	19	1
67–3790	Screw	35	17	2
67–3800	Bracket	35	18	1
67–3810	Pin	35	16	3
67–3820	Body	36	32	3
67–3830	Washer – 1.25	35	31	1
67–3840	Washer – 1.3	35	*	1
67–3850	Washer –1.35	35	*	1
67–3860	Washer – 1.4	35	*	1
67–3870	Washer – 1.45	35	*	1
67–3880	Washer – 1.5	35	*	1
67–3890	Washer – 1.55	35	*	1
67–3900	Washer – 1.6	35	*	1
67–3910	Washer – 1.65	35	*	1
67–3920	Washer – 1.7	35	*	1
67–3930	Spring	35	30	3
67–3940	Pin	35	29	3
67–3950	Piece	35	28	3
67–3960	Nozzle Assembly	35	27	3
67–3970	Nut	35	25	3
67–3980	Gasket	35	26	3
67–3990	Speed Control Lever Assy.	34	1	1
67–4000	Pin	34	2	2
67–4010	Stopper	34	13	1
67–4020	Lever – Spring, Governor	34	7	1
67–4030	Rod – Tie	34	21	1
67–4040	Weight Assembly	34	12	1
67–4050	Shaft	34	17	1
67–4060	Governor Lever Assembly	34	16	1
67–4070	Sliding Shaft Assembly	34	14	1
67–4080	Clip	34	22	1
67–4090	Tension Lever Assembly	34	19	1
67–4110	Cover Assembly	34	*	1
67–4120	Pin	34	33	1
67–4130	Cover – Governor	34	4	1
67–4140	Lever – Stop Assembly	34	10	1
67–4150	Lever – Stop	34	36	1
67–4160	Gasket	34	5	1
67–4170	Spring Set	34	*	1
67–4180	Nut	34	29	1
67–4190	Spring – Torque	34	26	1
67–4200	Nut – Special	34	28	1
67–4210	Case – Torque Spring	34	24	1
67–4220	Screw – Adjusting	34	27	1
67–4230	Stopper	34	25	1
67–4240	Cap	34	30	2
67–4250	Cover	31	24	1
67–4260	Spring	34	23	1
67–4270	Bolt	34	3	4
67–4280	Bolt & Washer	34	15	1
67–4290	Nut	34	32	2
67–4310	Gasket	31	23	1
67–4330	Oil Filter Assembly	30	40	1
67–4340	Screen Assembly	30	31	1
67–4350	Switch Assy. – Press. Oil	27	9	1
67–4370	Pulley	27	2	1
67–4390	Gasket	27	8	1
67–4400	Bolt	33	1	2
67–4400	Bolt	27	5	1
67–4410	Belt – V	27	3	1
67–4420	Fitting – Outlet, Water	33	45	1
67–4430	Gasket – Outlet, Water	33	44	1
67–4450	Fitting – Thermostat	33	31	1
67–4460	Gasket – Fitting, Thermostat	33	30	1
67–4470	Bolt	33	32	1
67–4480	Pipe – By–Pass	33	36	1
67–4490	Gasket	33	29	1
67–4500	Switch – Thermal	33	28	1
67–4510	Nut – Gauge, Temp.	33	34	1
67–4520	Pipe	33	2	1
67–4530	Cover – Intake	33	5	1
67–4540	O–Ring	33	3	1
67–4550	Gasket – Manifold, Intake	33	43	1
67–4570	Gasket – Manifold, Exhaust	33	25	1
67–4590	Bolt	33	23	6
67–4610	Bolt & Washer	37	2	2
67–4620	Spacer	28	21	1
67–4630	Alternator Assembly	28	1	1
67–4640	Bolt	28	22	1
67–4650	Brace	28	23	1
67–4660	Bolt – Flange	28	26	1
67–4670	Nutd	28	2	1
67–4690	Plate – Plug, Glow	33	39	1
67–4700	Lamp – Glow	33	26	1
67–4720	Lever Assembly	37	5	1
67–4730	Spring Set	37	6	1
67–4750	Switch Assembly	37	8	1
67–4760	Shaft Assembly	37	16	1
67–4770	Pinion Set	37	15	1
67–4780	Gear Set	37	13	1
67–4790	Shaft Assembly	37	12	1
67–4800	Yoke Assembly	37	21	1
67–4810	Pulley Set	28	16	1
67–4820	Bolt Set	28	20	1
67–4830	Front Bracket Assembly	28	15	1
67–4840	Screw – Set	28	18	1
67–4850	Bearing – Front	28	19	1
67–4860	Rotor Assembly	28	7	1
67–4870	Bearing – Rear	28	6	1
67–4880	Stator Assembly	28	10	1
67–4890	Rear Bracket Assembly	28	9	1
67–4900	Terminal Set	28	11	1
67–4910	Regulator Assembly	28	12	1
67–4920	Brush	28	13	2
67–4930	Rectifier Assembly	28	8	1
67–5040	Spring	34	18	1
67–5050	Thermostat	33	37	1
67–5100	Bushing	25	27	1
67–5110	Bolt	25	26	1
67–5120	Washer – Spring	25	28	1
67–5130	Washer – Flat	25	29	1
67–5140	Washer – Serrated	25	30	1
67–5150	Nut	25	31	1
67–7490	Key	25	15	1
68–4680	Shield – Valve Cover, RH	11	42	1
68–4690	Shield – Valve Cover, LH	11	31	1
68–4700	Arm – Steering	12	63	1
68–4770	Cylinder – Steering, Hyd.	40	31	1
68–4770	Hydraulic Steering Cylinder	41	*	1
68–4780	Head – Cylinder	41	10	1
68–4790	Piston – Cylinder	41	7	1
68–4800	Shaft – Cylinder	41	9	1
68–4810	Ring – Retaining	41	11	1
68–4820	Barrel	41	3	1
68–4840	Hose	24	38	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
68—4850	Hose — Upper	24	1	1
68—4860	Hood — Radiator	24	19	1
68—4920	Hub — P.T.O.	25	45	1
68—4930	Mount — Pump	25	7	1
68—4940	Pump — Gear	25	2	1
68—4950	Engine Assembly	25	20	1
68—4960	Plate — Flywheel	25	8	1
68—4990	Bracket — Engine, RH	25	40	1
68—5090	Support — Cable, Throttle	25	44	1
68—5100	Rod — Seat	11	27	1
68—5120	Cover — Valve, Steering	11	8	1
68—5130	Wheel — Steering	12	67	1
68—5140	Cap — Steering Wheel	11	2	1
68—5150	Joint — Ball	41	13	1
68—5170	Column — Steering	11	5	1
68—5180	Shroud — Radiator	24	40	1
68—5210	Breaker — Circuit,15A	14	14	1
68—5230	Radiator	24	9	1
68—5240	Strip — Foam	24	10	2
68—5241	Strip — Foam	24	11	2
68—5260	Orifice — Manifold Drain	15	2	1
68—5290	Washer — Arm, Steering	11	49	1
68—5300	Lever — Arm, Lock	11	12	1
68—5310	Clip — Seat	11	36	1
68—5370	Decal — Steering Wheel	11	1	1
68—5380	Center Lift Arm Assembly	8	32	1
68—5420	Hub — Locking	11	46	1
68—5430	Plate — Wear	11	47	2
68—5440	Spacer — Arm, Pivot RH	11	43	1
68—5450	Spacer — Arm, Pivot LH	11	10	1
68—5470	Hose	24	35	1
68—5480	Plate — Arm, Steering	11	7	1
68—5510	Base — Tank, Fuel	22	15	1
68—5560	Pin — Cylinder	8	27	1
68—5640	Bracket — Tank, Reserve	24	32	1
68—5650	Support — Radiator, Front	24	36	1
68—5660	Support — Radiator, Rear	24	12	1
68—5670	Grille	24	24	1
68—5680	Plate — Electrical	23	57	1
68—5710	Hose — Pump	26	64	1
68—5710	Hose — Pump	42	21	1
68—5740	Hose Assembly	12	60	1
68—5750	Hose — Steering, Cyl. Base	40	3	1
68—5750	Hose — Steering, Cyl. Base	42	18	1
68—5760	Hose — Steering, Cyl. Rod	40	5	1
68—5760	Hose — Steering, Cyl. Rod	12	61	1
68—5760	Hose — Steering, Cyl. Rod	42	17	1
68—5770	Hose — Pump	26	63	1
68—5770	Hose — Pump	42	20	1
68—5810	Hose — Pump	26	56	1
68—5810	Hose — Pump	42	19	1
68—5830	Hose — Cylinder, Drop Rear	42	31	1
68—5840	Hose — Pump, Steering	26	62	1
68—5840	Hose — Pump, Steering	12	55	1
68—5840	Hose — Pump, Steering	42	14	1
68—5850	Hose — Pump	26	61	1
68—5850	Hose — Pump	42	13	1
68—5860	Hose — Pump, Inlet LH	15	44	1
68—5860	Hose — Pump, Inlet LH	42	16	1
68—5870	Hose — Pump, Inlet RH	15	45	1
68—5870	Hose — Pump, Inlet RH	42	15	1
68—5880	Return Line — Manifold/Filter	16	55	1
68—5880	Return Line — Manifold/Filter	42	33	1
68—5890	Hose — Return, Filter	15	25	1
68—5890	Hose — Return, Filter	42	22	1
68—5900	Hose — Cleaner, Air	38	6	1
68—9931	Control Throttle	14	18	1
69—4780	Clamp Hose	14	30	1
69—9760	Plate — Cover	1	3	1
70—2770	Head	10	8	
70—2780	Piston	10	4	1
70—7130	Tube — Traction, LH Upper	42	29	1
70—7150	Hose — Hyd. Lower, LH	5	*	1
70—7150	Hose — Hyd. Lower, LH	42	25	1
70—8130	Barrel	10	1	1
70—8140	Body & Bearing Assembly	7	9	1
70—8150	Plate — Valve	7	7	1
70—8160	Screw — Cap, Hex. Hd.	7	1	8
70—8170	Ring — Snap	7	21	1
70—8180	IGR Assembly	7	5	1
70—8190	Shaft	7	10	1
70—8200	Socket — Light	14	32	4
70—8220	Cable — Ground	25	39	1
70—8250	Drive	13	16	1
70—8330	Fork — Caster	40	15	1
70—8370	Bolt — Wheel, Castor	40	16	1
70—8400	Fender — Rear	40	28	1
70—8445	Sleeve — Protective	12	59	1
70—8445	Sleeve — Protective	26	60	1
70—8446	Sleeve — Protective	12	62	1
70—8450	Sleeve — Protective	26	59	3
70—8470	Screw	25	17	1
70—8490	Spacer	40	22	2
70—8500	Tire	40	25	1
70—8510	Tubing — Convoluted	23	63	1
70—8530	Wire — Pump, Fuel	23	65	1
70—8530	Wire Assembly	30	44	1
70—8550	Spark Arrester (Optional)	26	*	1
70—8570	Breaker — Circuit	44	4	1
70—8600	Hose — Hyd. Upper, RH	5	18	1
70—8600	Hose — Hyd. Upper, RH	42	10	1
70—8610	Hose — Hyd. Upper, LH	5	*	1
70—8610	Hose — Hyd. Upper, LH	42	26	1
70—8650	Block — Sub—Assembly	32	1	1
70—8660	Cylinder Head Assembly	33	27	1
70—8670	Gasket — Head, Cylinder	33	24	1
70—8680	Pulley — Crankshaft	31	19	1
70—8690	Pump Assembly	36	*	1
70—8690	Pump Assembly	30	41	1
70—8700	Pipe — Return, Fuel	30	3	1
70—8710	Element	35	8	3
70—8720	Spring — Tie Rod	34	20	1
70—8730	Fan	27	1	1
70—8740	Pump Assembly	27	7	1
70—8750	Manifold — Exhaust	33	20	1
70—8760	Starter Assembly	37	1	1
70—8770	Front Basket Assembly	37	4	1
70—8780	Center Bracket Assembly	37	7	1
70—8790	GAsket Kit	29	*	1
70—8800	Piston Ring Set — Std.	31	11	1
70—8810	Piston Ring Set — 0.25 U.	31	*	1
70—8820	Piston Ring Set — 0.50 U.	31	*	1
70—8830	Piston & Pin Set — Std.	31	10	1
70—8840	Piston & Pin Set — 0.25 U.	31	*	1
70—8850	Piston & Pin Set — 0.50 U.	31	*	1
70—8860	Connecting Rod Assembly	31	9	3
70—8880	Dipstick	30	5	1
70—8890	Housing — Flywheel	30	22	1
70—9800	Motor — Reel	16	50	3
70—9840	Shoe & Lining Assembly	5	7	4
70—9850	Clip	6	51	2
70—9860	Cam — Brake	6	53	2
70—9870	Plate — Support, Brake	6	52	2
70—9880	Spring — Extension	6	54	4
71—0990	Orifice — One Way	16	77	1
71—1510	Arm — Brake	1	33	1
71—1510	Lever — Brake	5	27	1
71—1520	Cap — Tank, Reserve	24	43	1
72—3850	Seal — Ring	16	49	1
72—4320	Switch — Neutral	22	40	1
72—4380	Seal Kit	17	*	1
72—4390	Repair Kit	17	*	
72—6140	Shield — Heat, Alternator	33	47	1
72—9870	Cable	24	17	1
74—3570	Element — Filter	16	48	1
74—3730	Spacer — Cylinder	1	24	2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
74–3830	Hose – Assembly	16	72	1
74–3830	Hose – Assembly	42	8	1
75–4920	Crankcase Sub–Assembly	29	1	1
75–9380	Decal – Caution	12	64	1
75–9440	Hub Assembly	40	24	1
75–9610	Spacer	24	47	1
75–9630	Brace	24	48	1
76–1720	Gasket	16	79	1
76–1850	Clevis	4	14	1
76–1860	Shaft	4	7	1
76–2660	Tube – Spacer	12	70	1
76–4380	Tank – Fuel, Diesel	22	4	1
76–4420	Hose – Fuel	23	67	1
76–4430	Fitting – Fuel	23	68	1
76–8750	Plate – Warning	24	4	1
80–3330	Gasket	38	17	1
83–0060	Pivot – Lift	2	62	1
83–0080	Spring – Torsion	2	64	1
83–0140	Pedal – Foot	3	91	1
83–0160	Brake Shaft	1	8	1
83–0540	Pedal – Traction	8	4	1
83–1200	Tube – Hydraulic	42	24	1
83–1700	Bushing – Flange	9	78	3
83–1860	Centering Spring Kit	13	12	1
83–1870	Gerotor	13	17	1
83–1880	Control Parts Assembly	13	*	1
83–1890	Switch – Ball	19	54	1
83–1890	Switch – Ball	21	60	1
83–2460	Hose – Hyd. Lower, RH	5	19	1
83–2460	Hose – Hyd. Lower, RH	42	12	1
83–2590	Bolt – Shoulder	3	98	1
83–6730	Decal – Coolant, Engine	24	7	1
83–7230	Cylinder – Lift, Rear	8	45	1
84–2000	Bracket – Brake	5	11	4
84–2203	Control Valve Assembly	21	*	1
84–2203	Control Valve Assembly	16	57	1
84–2203	Control Valve Assembly	42	32	1
84–8260	Hose – Cylinder, Lift Rear	42	30	1
84–8290	Hydraulic Cylinder Assy.	1	21	2
85–6540	Stud – Drive Type	5	6	8
85–6560	Pin – Pivot, Hood	24	23	1
86–5360	Seal Repair Kit	10	*	1
86–5390	Seal Repair Kit	4	*	1
86–7470	Diode – Inline	44	3	2
86–9820	Frame – Pull, Rear	9	61	1
88–6900	Plate – Footrest	9	73	1
88–9500	Needle Valve Assembly	16	*	1
88–9630	Bracket – Lift, Pivot RH	3	93	1
88–9640	Lift Pivot Bracket – LH	1	13	1
88–9660	Shaft – Cutting Control	1	11	1
88–9700	Hose – Hydraulic	1	20	1
88–9700	Hose – Hydraulic	8	48	1
88–9720	Decal – GR 3000D	2	85	1
92–0585	Pull Arm Assembly – RH	2	76	3
92–0586	Pull Arm Assembly – LH	2	70	3
92–0587	Fitting – Hydraulic Valve	16	54	1
92–0588	Bushing – Needle	16	80	1
92–0845	Crankshaft	31	16	1
92–0846	Cover Assembly	33	6	1
92–0847	Oil Filler Cap Assembly	33	11	1
92–1180	Seat Assembly	12	*	1
92–1190	Cable – Battery, Negative	22	3	1
92–1190	Cabe – Battery, Negative	44	2	1
92–1191	Cable – Battery, Positive	22	1	1
92–1191	Cable – Battery, Positive	44	1	1
92–1193	Frame	8	26	1
92–1194	Plate – Traction Pivot	9	66	1
92–1196	Decal – Service	12	68	1
92–2360	Wire Harness Assembly	44	*	1
92–2529	Decal– Panel, Instrument	14	10	1
92–2538	Timer – Glow Plug	14	11	1
92–2539	Plug – Glow	33	38	3
92–2544	Panel – Instrument	14	9	1
92–2545	Seals – Spool	19	*	1
92–2545	Seals – Spool	21	*	1
92–2546	Wiper – Seal	18	25	4
92–2546	Wiper – Seal	21	64	5
92–2547	Plate – Seal Retainer	20	18	6
92–2547	Plate – Seal Retainer	18	24	4
92–2548	Seals – Spool Single	19	*	1
92–2548	Seals – Spool Single	21	*	1
92–2549	Seals – Spool	21	*	1
92–3057	Capacitor Assembly	44	5	1
92–3058	Spring – Centering	18	41	1
92–3148	Spring	20	23	1
92–6533	Kit – Cushion	11	24	1
92–6534	Shell – Seat	11	14	1
92–7164	Muffler – Exhaust	25	25	1
92–7168	Bracket – Engine, LH	25	73	1
92–9176	Frame – Pull, LH	2	79	1
92–7177	Frame – Pull, RH	5	38	1
92–8690	Steering Valve Assembly	11	51	1
92–8691	Bushing – Seal Gland	13	3	1
92–8694	Cap – End	13	18	1
92–8695	Seal Kit	13	*	1
92–8696	Screw – Torx Hd.	13	19	7
92–8697	Plate – Wear	13	15	1
92–8851	Cylinder Repair Kit	41	*	1
92–8915	Spring	26	74	2
93–1386	Section #5 Assembly	21	*	1
93–7629	Foot Pad – Brake	1	4	1
93–7630	Foot Pad – Mow	1	6	1
93–7631	Foot Pad – Lift	1	9	1
93–3651	Retainer – Boot	18	22	2
93–3651	Retainer – Boot	20	47	3
93–3652	Boot – Spool Assembly	19	*	2
93–3652	Boot – Spool Assembly	21	*	3
93–8075	Decal – Mow/Lift	1	10	1
93–9346	Clamp – Hose, Pressure	16	69	6
93–9346	Clamp – Hose, Pressure	42	38	6
93–9347	Clamp – Hose, Return	16	61	6
93–9347	Clamp – Hose, Return	42	39	6
93–9934	Handle – Traction	8	21	1
93–9936	Bracket – Return, Traction	6	59	1
93–9937	Asm. – Cable, Traction	1	62	1
93–9937	Asm. – Cable, Traction	9	79	1
94–2691	Screw – HWH	12	69	1
217–60	Rim	5	3	2
218–446	Nut	14	5	1
218–447	Washer – Lock	14	6	1
218–461	Nut – Jam	22	47	2
218–515	Bracket – Mounting	14	25	1
219–17	Bulb – Light	14	*	4
231–124	Tire –Treaded (Optional)	5	*	2
232–24	Stem – Valve	40	26	1
232–24	Valve Stem & Cap	6	56	2
232–37	Tube – Inner (Optional)	5	*	2
233–48	Knob	8	20	1
233–50	Knob – Throttle	14	7	1
237–7	O–Ring	22	46	1
237–21	O–Ring	15	11	7
237–21	O–Ring	1	18	1
237–22	O–Ring	15	9	3
237–22	O–Ring	26	68	3
237–30	O–Ring	15	6	7
237–30	O–Ring	22	41	1
237–30	O–Ring	26	55	1
237–35	O–Ring	40	4	2
237–35	O–Ring	8	47	2
237–35	O–Ring	12	54	4
237–35	O–Ring	26	65	1
237–42	O–Ring	15	3	9
237–42	O–Ring	12	52	4
237–42	O–Ring	26	66	4
237–54	O–Ring	20	3	6
237–54	O–Ring	18	6	8

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
237–58	O–Ring	16	73	1
237–65	O–Ring	5	17	4
237–65	O–Ring	16	76	4
237–78	O–Ring	40	7	2
237–78	O–Ring	1	16	4
237–78	O–Ring	8	46	2
237–79	O–Ring	15	8	8
237–80	O–Ring	15	4	3
237–80	O–Ring	5	16	4
237–80	O–Ring	26	53	1
237–81	O–Ring	15	1	1
237–101	O–Ring	15	24	2
237–124	Grommet	22	34	1
237–136	Grommet	22	12	4
242–50	Nut – Lock	40	27	4
242–50	Nut – Wheel	5	1	8
242–86	Rim	40	17	1
2410–18	Plug	45	2	1
2410–66	Cap – Vinyl	15	41	1
2411–32	Joint – Ball	8	1	2
2412–3	Clamp	24	2	4
2412–3	Clamp – Hose	15	26	8
2412–3	Clamp – Hose	42	9	12
2412–31	Clip – Cable	25	46	1
2412–36	Clamp – Hose	22	8	2
2412–39	Clamp	26	69	1
2412–41	Clamp	24	41	1
2412–41	Clamp – R	9	70	2
2412–42	Clamp – Hose	38	5	2
2412–74	Clamp–R	22	36	1
2412–89	Clamp–R	22	22	1
2412–102	Clamp–R	11	18	2
2412–108	Clamp – Gear, Worm	24	5	2
2412–108	Clamp – Hose	22	17	8
251–141	Bearing – Ball	2	74	6
253–111	Seal – Bearing	40	21	2
254–61	Cup – Bearing	40	10	2
254–70	Cone – Bearing	40	11	2
254–78	Cone – Bearing	40	20	2
254–79	Cup – Bearing	40	19	2
256–2	Bushing – Sleeve	9	56	2
256–155	Bushing	11	39	2
256–219	Bushing – Flange	9	62	2
256–251	Bushing	8	22	2
281–1	Plug – Oil	15	43	1
282–2	Yoke	5	46	2
282–2	Yoke	2	51	4
283–1	Pin – Clevis	5	45	2
283–1	Pin – Clevis	2	52	4
283–8	Pin – Clevis	1	31	2
283–57	Pin – Clevis	8	14	1
283–62	Pin – Clevis	9	80	1
302–2	Fitting – Grease	4	1	2
302–2	Fitting – Grease	8	44	1
302–5	Fitting – Grease	40	18	1
302–5	Fitting – Grease	8	25	1
302–5	Fitting – Grease	2	63	13
302–11	Fitting – Grease	9	58	1
302–60	Fitting – Grease	1	22	4
302–60	Fitting – Grease	5	35	1
302–60	Fitting – Grease	8	36	1
304–46	Cock – Drain, Radiator	24	39	1
304–61	Clamp	16	60	1
321–3	Screw – Cap, Hex. Hd.	11	37	1
321–3	Screw – Cap, Hex. Hd.	16	46	2
321–3	Screw – Cap, Hex. Hd.	9	69	1
321–4	Screw – Cap, Hex. Hd.	22	6	4
321–5	Screw – Cap, Hex. Hd.	5	8	8
321–6	Screw – Cap, Hex. Hd.	24	20	1
321–8	Screw – Cap Hex. Hd.	14	8	1
321–23	Screw – Cap, Hex. Hd.	3	92	1
322–1	Screw – Cap, Hex. Hd.	1	29	5
322–1	Screw – Cap, Hex. Hd.	5	39	1
322–1	Screw – Cap, Hex. Hd.	8	39	2
322–2	Screw – Cap, Hex. Hd.	38	14	4
322–2	Screw – Cap, Hex. Hd.	11	22	2
322–2	Screw – Cap, Hex. Hd.	15	23	2
322–3	Screw – Cap, Hex. Hd.	40	9	2
322–3	Screw – Cap, Hex. Hd.	8	28	1
322–3	Screw – Cap, Hex. Hd.	24	37	7
322–4	Screw – Cap, Hex. Hd.	15	22	2
322–4	Screw – Cap, Hex. Hd.	25	33	7
322–5	Screw – Cap, Hex. Hd.	8	19	1
322–5	Screw – Cap, Hex. Hd.	25	41	1
322–6	Screw – Cap, Hex. Hd.	25	10	4
322–6	Screw – Cap, Hex. Hd.	24	16	1
322–9	Screw – Cap, Hex. Hd.	24	49	1
322–14	Screw – Cap, Hex. Hd.	16	63	3
323–6	Screw – Cap, Hex. Hd.	22	13	4
323–7	Screw – Cap Hex. Hd.	26	75	2
323–8	Screw – Cap, Hex. Hd.	25	4	2
323–9	Screw – Cap, Hex. Hd.	23	61	2
323–10	Screw – Cap, Hex Hd.	1	14	4
323–11	Screw – Cap, Hex. Hd.	25	32	4
323–12	Screw – Cap, Hex. Hd.	24	18	2
323–13	Screw – Cap, Hex. Hd.	24	33	2
323–20	Screw – Cap, Hex. Hd.	12	66	4
324–7	Screw – Cap, Hex. Hd.	25	9	4
325–7	Screw – Cap, Hex. Hd.	11	44	1
325–8	Screw – Cap, Hex. Hd.	11	11	1
325–11	Screw – Cap, Hex. Hd.	5	10	8
3211–1	Screw – Cap, Hex. Hd.	9	53	2
3216–16	Screw – Cap, Hex. Hd.	11	50	1
3217–6	Nut – Full	6	61	1
3217–6	Nut – Hex.	24	15	1
3217–6	Nut – Lock	39	1	4
3217–7	Nut – Hex	18	33	3
3217–26	Nut	14	27	1
3218–1	Nut – Jam	24	21	1
3218–5	Nut – Jam	41	12	1
3219–2	Nut – Full	6	58	1
3219–2	Nut – Hex.	46	6	1
3219–5	Nut – Jam	41	2	1
3219–18	Nut – Hex.	45	2	1
3220–2	Nut – Jam	8	2	2
3220–2	Nut – Jam	5	22	1
3220–2	Nut – Jam	2	53	4
3220–3	Nut – Jam	40	33	4
3220–3	Nut – Jam	2	69	6
3220–6	Nut – Jam	4	15	1
3229–22	Bolt – Carriage	3	90	2
3234–1	Screw – Hex. Flange Hd.	8	9	4
3234–1	Screw – Hex. Flange Hd.	3	95	4
3234–13	Screw – Hex. Flange Hd.	5	20	4
3241–2	Screw – Set, Sq. Hd.	25	13	2
3241–6	Screw – Set, Sq. Hd.	26	51	2
3242–1	Screw – Cap, Hex. Hd.	11	45	1
3250–28	Screw – Cap, Round Hd.	14	16	2
3250–36	Screw – Pan Head	22	27	4
3253–3	Washer – Lock	2	86	1
3253–3	Washer – Lock	21	57	4
3253–4	Washer – Lock	40	8	2
3253–4	Washer – Lock	24	14	8
3253–4	Washer – Lock	11	21	2
3253–12	Washer – Lock	14	23	5
3253–15	Washer – Lock	14	15	2
3253–21	Washer – Lock	23	66	2
3253–21	Washer – Lock	2	77	8
3253–29	Washer – Lock	25	5	2
3254–1	Washer – Lock, Int. Tooth	14	26	1
3254–2	Washer – Lock, Int. Tooth	25	35	1
3254–6	Washer – Lock	9	54	2
3254–6	Washer – Lock	23	69	2
3254–6	Washer – Lock, Int. Tooth	26	52	1
3255–8	Washer – Lock, Int. Tooth	46	9	1
3255–16	Washer – Lock, Int. Tooth	25	18	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
3256–1	Washer – Flat	9	71	2
3256–3	Washer – Flat	22	14	4
3256–3	Washer – Flat	24	30	6
3256–3	Washer – Flat	9	52	2
3256–14	Washer – Flat	14	2	4
3256–22	Washer – Flat	22	24	3
3256–22	Washer – Flat	15	39	2
3256–22	Washer – Flat	9	77	1
3256–23	Washer – Flat	25	11	4
3256–23	Washer – Plain	1	28	5
3256–23	Washer – Plain	5	40	1
3256–23	Washer – Plain	8	38	2
3256–23	Washer – Flat	24	13	7
3256–23	Washer – Flat	11	20	6
3256–23	Washer – Flat	15	21	2
3256–23	Washer – Flat	9	59	1
3256–24	Washer	26	67	9
3256–24	Washer – Flat	22	28	6
3256–24	Washer – Flat	40	32	1
3256–24	Washer – Flat	9	51	4
3256–24	Washer – Flat	2	57	15
3256–24	Washer – Flat	12	65	4
3256–26	Washer – Flat	5	32	1
3256–26	Washer – Flat	8	42	1
3256–26	Washer – Flat	2	48	2
3256–49	Nut – Lock	14	24	6
3258–19	Screw – Round Head	38	4	2
3272–4	Pin – Cotter	8	23	1
3272–6	Pin – Cotter	5	47	2
3272–6	Pin – Cotter	2	50	4
3272–10	Pin – Cotter	9	81	1
3272–11	Pin – Cotter	1	23	2
3272–11	Pin – Cotter	11	26	1
3272–11	Pin – Cotter	8	43	1
3272–12	Pin – Cotter	5	33	1
3272–12	Pin – Cotter	2	49	1
3272–37	Pin – Cotter	40	14	1
3274–12	Screw – Cap, Hex. Hd.	11	29	4
3274–15	Screw – Fillister Hd.	18	43	2
3274–19	Screw – Set	15	38	2
3274–52	Screw – Hex, Socket Hd.	18	20	4
3274–52	Screw – Hex. Socket Hd.	20	45	6
3274–70	Screw – Hex, Socket Hd.	18	1	2
3274–84	Screw – Cap, Hex. Hd.	21	58	4
3284–3	Pin – Groove	22	39	1
3290–55	Rivet – Pop	24	27	8
3290–271	Rivet	24	3	2
3290–317	Washer – Spring	2	75	6
3290–357	Nut – Lock	3	97	1
3290–357	Nut – Lock	26	76	1
3290–378	Tie – Cable	40	2	2
3290–378	Tie – Cable	12	58	6
3290–378	Tie – Cable	26	58	10
3290–378	Tie – Cable	23	62	4
3290–379	Tie – Cable	22	23	3
3290–379	Tie – Cable	37	27	2
3290–409	Rivet – Pop	24	25	10
3296–2	Nut – Lock	14	31	1
3296–4	Nut – Lock	9	65	2
3296–16	Nut – Lock	14	12	1
3296–16	Nut – Lock	22	21	5
3296–16	Nut – Lock	24	22	1
3296–16	Nut – Lock	11	33	1
3296–16	Nut – Lock	15	40	4
3296–16	Nut – Lock	5	9	8
3296–16	Nut – Lock	5	43	3
3296–16	Nut – Lock	9	72	1
3296–16	Nut – Lock	2	80	3
3296–23	Nut – Lock	5	25	8
3296–25	Nut – Lock	11	6	2
3296–29	Nut – Lock	6	60	1
3296–29	Nut – Lock	25	14	10
3296–29	Nut – Lock	11	34	4
3296–29	Nut – Lock	24	45	1
3296–29	Nut – Lock	9	49	2
3296–39	Nut – Lock	22	25	2
3296–39	Nut – Lock	25	34	2
3296–48	Nut – Lock	25	6	4
3296–59	Nut – Lock	24	31	4
3296–59	Nut – Lock	25	36	4
3296–59	Nut – Lock	9	50	4
3296–59	Nut – Lock	2	58	8
3296–67	Nut – Lock	40	29	1
32104–76	Screw – Acorn Washer Hd.	14	17	6
32104–76	Screw – Self Tapping	11	32	5
32105–1	Screw – Cap, Hex. Hd.	14	29	1
32105–8	Screw – Machine	23	59	4
32105–8	Screw – Round Head	14	19	2
32107–11	Nut	38	7	2
32108–100	Screw – Flat Head	5	12	3
32120–8	Ring – Retaining, Internal	4	11	1
32121–6	Pin – Roll	1	1	1
32121–6	Pin – Roll	8	11	1
32121–35	Pin – Roll	1	12	8
32121–45	Pin – Roll	11	38	1
32121–45	Pin–Roll	8	7	2
32122–35	Screw – Truss Head	46	8	1
32122–53	Screw – Phillips Hd.	14	13	2
32128–20	Nut – Lock, Flange	46	3	1
32128–20	Nut – Lock, Flange	38	13	4
32128–20	Nut – Lock, Flange	9	63	1
32128–20	Nut – Lock, Flange Hd.	15	19	3
32136–9	Nut – Castle	40	13	1
32141–111	Nut – Lock, Flange Hd.	3	89	1
32144–1	Screw – Thread Forming	22	5	2
32144–1	Screw – Thread Forming	14	28	2
32144–14	Screw – Cap, Hex. Hd.	24	50	1
32144–14	Screw – Hex. Flange Hd.	9	74	7
32144–21	Screw – Fillister Head	11	3	1
32144–34	Screw	15	34	6
32149–7	Nut – KEPS	23	54	4
32149–7	Nut – Lock	14	20	2
32151–41	Ring – Retaining	17	9	1
32151–101	Ring – Retaining	24	26	2
32152–7	Nut – Lock	41	4	1
32152–10	Nut	10	2	2
32152–10	Nut–Lock	4	3	1
340–1	Fitting – Hydraulic	25	1	1
340–2	Fitting – Hydraulic	25	3	3
340–3	Fitting – Hydraulic	16	53	1
340–6	Fitting – Hydraulic	26	54	1
340–11	Fitting – Hydraulic	15	16	1
340–14	Fitting – Hydraulic	5	15	4
340–16	Fitting – Hydraulic	15	5	1
340–18	Fitting – Hydraulic	15	13	1
340–77	Fitting – Hydraulic	16	51	4
340–87	Fitting – Hydraulic	16	58	1
340–92	Fitting – Straight	1	17	1
340–96	Fitting – Hydraulic	15	7	1
340–98	Fitting – Hydraulic	16	59	2
340–101	Fitting – Hydraulic	15	17	1
340–101	Fitting – Hydraulic	16	52	1
340–103	Fitting – Hydraulic	8	30	2
340–132	Fitting – Hydraulic	40	6	2
340–137	Fitting – Hydraulic	12	53	4
351–78	Edging	11	23	2
353–301	Poppet	18	27	1
353–302	O–Ring	20	7	3
353–302	O–Ring	18	10	3
353–303	Ring – Backup	20	8	6
353–303	Ring – Backup	18	9	6
353–304	Spring	18	28	1
353–305	O–Ring	20	5	5
353–305	O–Ring	18	8	4
353–306	Ring – Backup	20	4	5
353–306	Ring – Backup	18	7	4

*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.
353—328	Washer — Shim	18	15	A/R
353—328	Washer — Shim	20	32	A/R
353—329	Washer — Shim	18	16	A/R
353—329	Washer — Shim	20	33	A/R
353—330	Washer — Shim	18	17	A/R
353—330	Washer — Shim	20	34	A/R
353—331	O—Ring	18	29	1
353—334	Cap — Relief	18	19	2
353—334	Cap — Relief	20	36	2
353—392	Seal — Relief Poppet PTFE	18	13	2
353—392	Seal — Relief Poppet PTFE	20	30	2
353—398	Spring	20	35	1
353—417	Collar Spring	20	20	2
353—417	Collar Spring	18	40	2
353—481	Plug — Load Check	20	2	3
353—481	Plug — Load Check	18	5	3
353—483	Body — Anticavitation	21	61	1
353—484	Retainer — Ball	21	62	1
353—529	Plate Seal	20	22	1
353—531	Poppet Assembly	20	31	2
353—531	Poppet Assy.	18	14	2
353—550	Plug Assembly	20	13	1
353—564	Fitting — Hydraulic 90°	15	27	2
353—564	Fitting — Hydraulic 90°	42	23	2
353—575	Boot — Dust Cap	18	21	2
353—575	Boot — Dust Cap	20	46	3
353—579	Spring	18	45	1
353—586	Bearing — Needle	17	13	4
353—588	Cover — Motor	17	3	1
353—591	Block — Anti—Extrusion	17	8	1
353—592	Drive Shaft Assembly	17	16	1
353—593	Idler Gear Assembly	17	7	1
353—594	Seal Assembly	17	14	1
353—595	Plate — Wear	17	15	1
353—596	O—Ring	17	17	1
353—597	Bridging — Insert	17	5	1
353—598	Gasket — Insert	17	6	1
353—599	Pin — Dowel	17	4	2
353—600	Washer	17	2	4
353—601	Screw — Hex Socket Hd.	17	1	4
353—642	Relief — RC Mod.	19	*	2
353—642	Relief — RC Mod. Assembly	21	*	1
353—668	Plate — Cap, Cover RH	20	11	1
353—707	Fitting	22	26	1
353—721	Plug	18	35	2
353—727	Bonnet	18	2	1
353—728	Sleeve	18	49	1
353—729	Spud — Detent	18	3	1
353—730	Spring	20	42	1
353—731	Ball	20	43	1
353—732	Sleeve — Detent	19	52	1
353—733	Spacer — Bonnet	18	4	1
353—733	Spacer — Bonnet	20	19	2
353—737	Ball	21	63	1
353—754	Bonnet — R. Detent	18	42	1
353—758	Seal — O—Ring	18	31	1
353—760	Body Relief	18	30	1
353—762	Spud — Detent Out	18	50	1
353—763	Cap — Adjustment	18	44	1
353—766	Relief WH (2000) PSI Assy.	19	*	1
353—768	Section #1 Complete	19	*	1
353—770	Section #3 Assembly	21	*	1
353—772	Left End Cover	18	34	1
353—777	Body — Motor	17	12	1
353—780	Positioner — R. Detent (Out)	19	*	1
353—783	Fitting — Straight	22	50	1
353—808	Collar — Spring	20	24	1
353—829	Collar Spool	20	26	1
353—830	O—Ring	20	25	1
353—831	Spring	20	21	1
353—833	Positioner Assembly	21	*	1
353—835	Seals — Section Set	19	*	1
353—835	Seals — Section Set	21	*	1
353—837	Section #2 Complete	19	*	1
353—839	Positioner — DI (SPL) Assy.	19	*	1
353—840	Position — DI (SP) Assy.	21	*	1
353—841	Position — Spool Assembly	21	*	1
353—844	Plus Series	21	55	1
353—845	Sleeve — Detent	20	41	1
353—846	Spud — DI (SPL)	20	40	1
353—847	Bonnet (SPL)	20	38	1
353—848	O—Ring	20	14	1
353—849	Sleeve	20	39	1
353—850	O—Ring	21	56	1
353—851	Body — Relief CP—RC Mod.	18	12	1
353—851	Body — Relief CP—RC Mod.	20	29	2
353—853	Bolt — Hex Hd.	20	10	3
353—855	Spring	18	18	2
353—855	Spring	20	44	1
353—884	Key — Woodruff	39	19	4
353—886	Ring — Retaining	39	18	2
353—922	Seal — Ring	39	23	10
353—923	Bearing Plate Assembly	39	26	2
353—952	Ring — Backup	18	32	1
353—953	Plug Assembly	21	54	1
353—957	Seal — Lip	20	15	6
353—957	Seal — Lip	18	26	4
353—958	Ring — Backup	20	16	1
353—961	Adapter — Flange	15	31	1
353—962	Cap & Chain Assembly	15	33	1
353—963	Gasket	15	36	2
353—964	Gear — 66B	39	21	1
353—967	Gear — 33B	39	24	6
353—969	Plate — Gear 33B	39	25	3
353—971	Plate — Gear 66B	39	14	1
354—1	Shaft — Drive	39	20	1
354—2	Body Assembly	39	15	1
354—3	Bearing Plate Assembly	39	22	1
354—4	Bearing Plate Assembly	39	28	1
354—5	Adapter — Splined	39	27	1
354—6	Plate — Gear 18B	39	30	1
354—7	Cover Assembly	39	31	1
354—8	Drive Shaft — Gear Assy.	39	29	1
354—9	Idler Shaft — Gear Assy.	39	5	1
354—10	Ider Shaft — Gear Assy.	39	12	1
354—11	Pin — Dowel	39	4	2
354—12	Pin — Dowel	39	6	2
354—13	Pin — Dowel	39	11	4
354—14	Pin — Dowel	39	13	2
354—15	Seal — Shaft	39	17	1
354—16	Washer — Lock	39	2	4
354—17	Stud — Threaded	39	3	4
354—25	Section #4 Assembly	21	*	1
354—26	Bonnet	20	27	2
354—28	Screw — Hex, Socket Hd.	20	28	2
354—29	Plate — Thrust	19	48	1
354—35	Gasket	39	32	1
354—122	Disc — Seal	21	52	1
354—129	Anticavitation Check Assy.	21	*	1
354—131	Section #3 Assembly	21	*	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–D 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–D 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–D.
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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