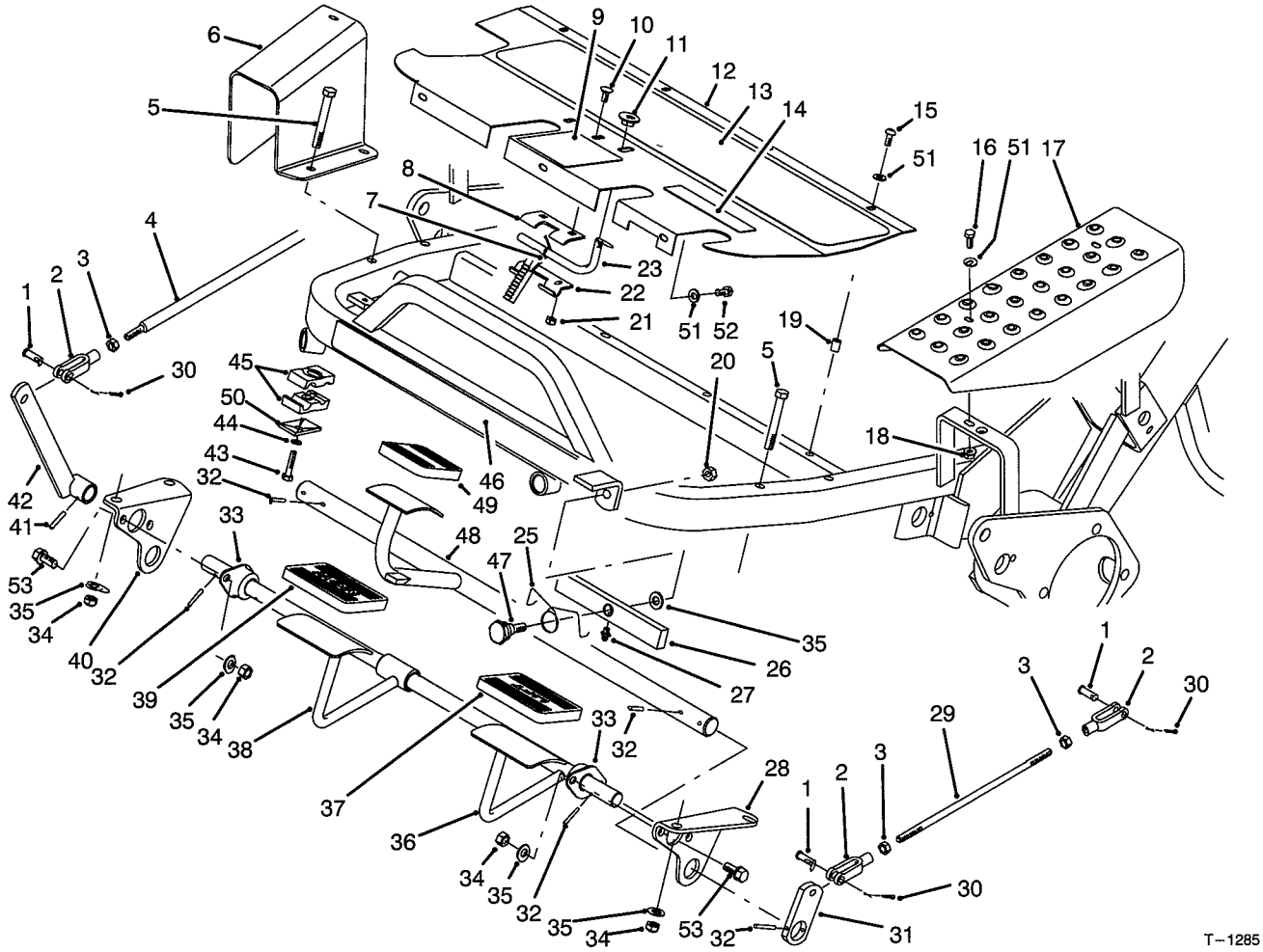
FORM NO. 3315–362

TORO®

MODEL NO. 04352–30001 & UP

PARTS CATALOG

GREENSMASTER® 3100
TRACTION UNIT



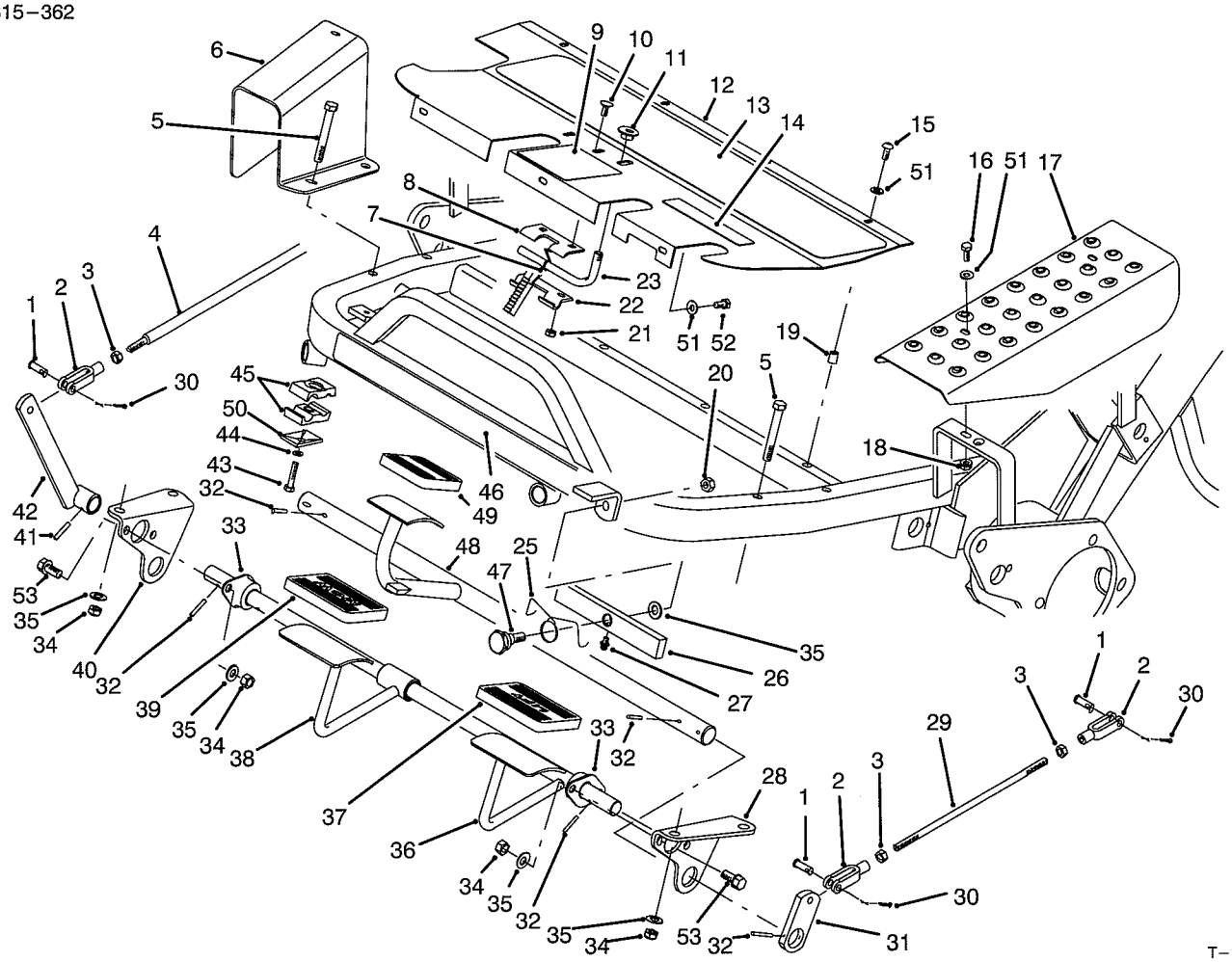
CONTROL PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	283–61	Pin – Clevis	5
2	282–2	Clevis – Adjusting	5
3	3220–2	Nut – Jam	5
4	49–5430	Rod – Control	1
5	323–13	Screw – Cap Hex. Hd.	4
6	49–6110	Guard – Transfer Rod	1
7	10–8140	Spring – Torsion	1
8	10–7880	Hinge – Upper	1
9	83–2480	Decal – Parking Brake	1
10	3229–22	Bolt – Carriage	2
11	32141–111	Nut Flange Lock	1
12	83–0640	Plate – Footrest	1
13	49–6120	Pad – Footrest	1
14	83–2530	Decal – Mow/Lift	1
15	3274–31	Screw – Hex. Socket Hd.	4
16	321–4	Screw – Hex. Flange Hd.	2

Ref. No.	Part No.	Description	No. Used
17	83–0200	Cover – L.H.	1
18	32128–33	Nut – Flange Lock	2
19	32148–6	Insert – Threaded	8
20	3296–39	Nut – Lock	1
21	3296–16	Nut – Lock	2
22	10–7890	Hinge – Lower	1
23	10–7850	Latch – Parking Brake	1
25	83–0080	Spring – Torsion	1
26	83–0060	Lift – Pivot	1
27	302–5	Fitting – Grease	1
28	88–9640	Bracket – Lift Pivot LH	1
29	27–2270	Rod – Brake Adjusting	2
30	3272–6	Pin – Cotter	5
31	10–8100	Strap – Brake Shaft	2
32	32121–35	Pin – Roll	8
33	27–2320	Bearing – Side Flange	2

TPS

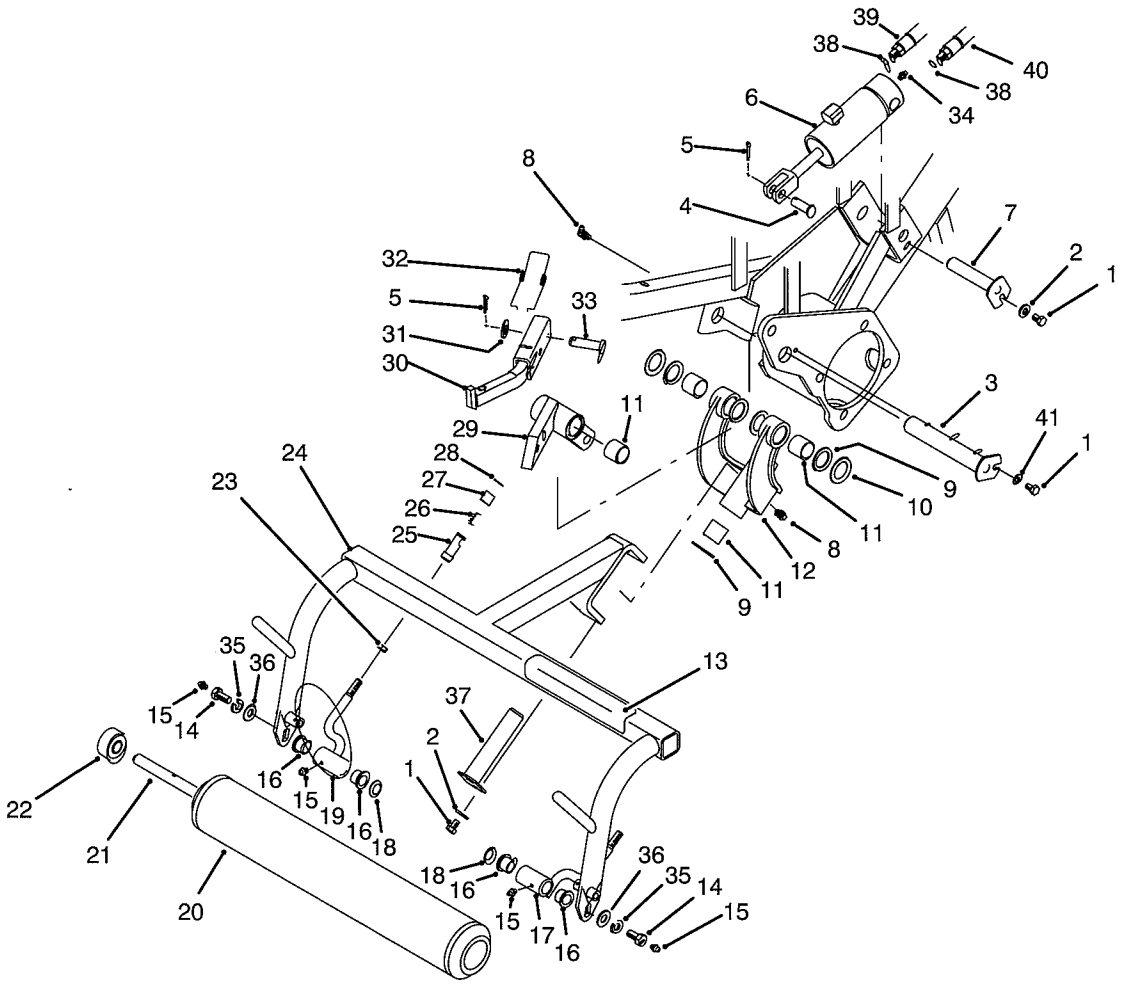
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CONTROL PEDAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
34	3296–59	Nut – Lock	8
35	3256–24	Washer – Flat	5
36	88–9660	Shaft – Cutting Control	1
37	10–8240	Pad – Lift	1
38	83–0140	Pedal – Mow	1
39	10–8250	Pad – Mow	1
40	88–9630	Bracket – Lift Pivot RH	1
41	32121–6	Pin – Roll	1
42	49–6200	Lever – Cutting Control	1
43	321–11	Screw – Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
44	3253–3	Washer – Lock	1
45	56–7970	Clamp Half – Tube	2
46	88–9620	Decal – Greensmaster 3100	1
47	83–2590	Bolt – Shoulder	1
48	83–0160	Shaft – Brake	1
49	49–6170	Pad – Brake	1
50	69–9760	Plate – Cover	1
51	3256–22	Washer – Flat	10
52	321–3	Screw – Cap Hex. Hd.	3
53	3234–1	Screw – Hex. Flange Hd.	4

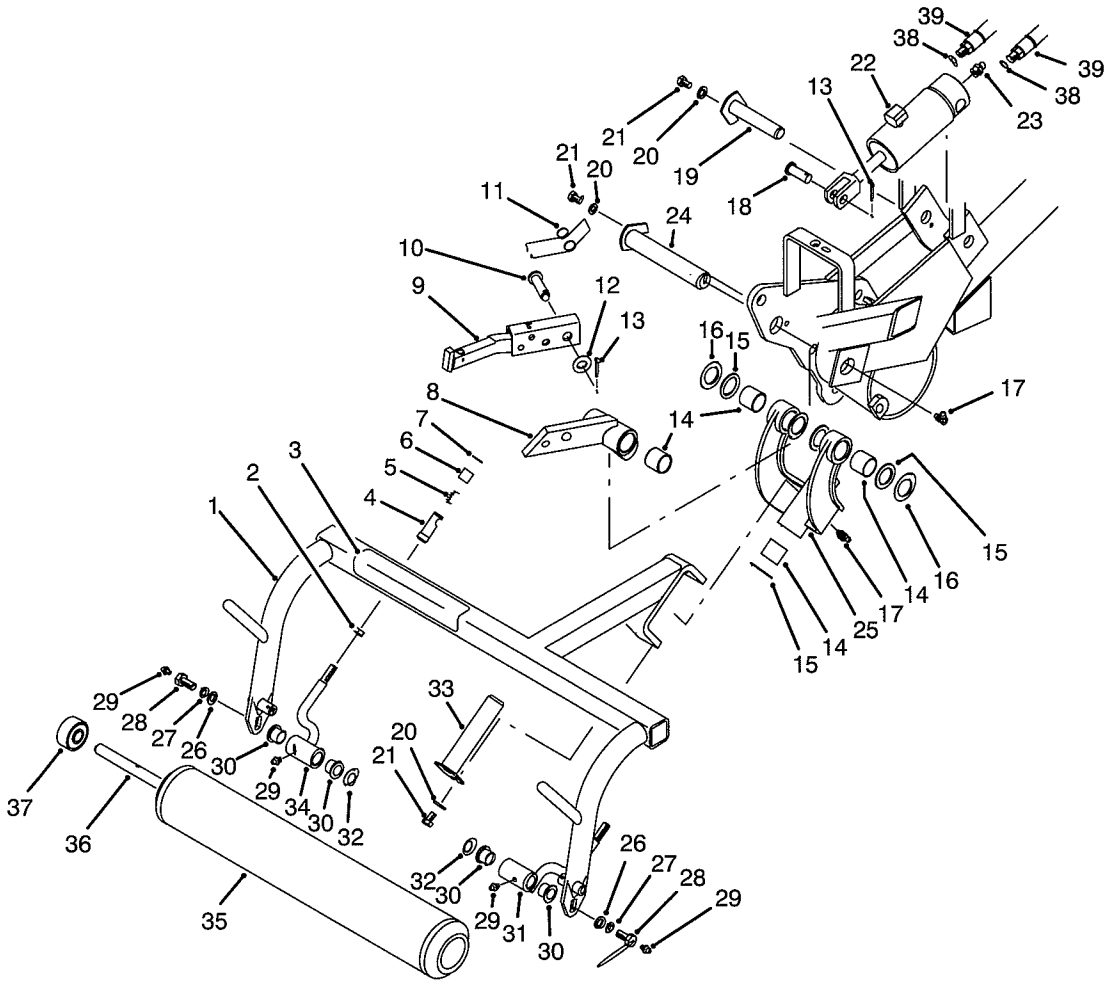


T–1283

PULL FRAME ASSEMBLY L.H.

Ref. No.	Part No.	Description	No. Used
1	322–1	Screw – Cap Hex. Hd.	3
2	3256–23	Washer – Flat	2
3	10–6110	Pin – Hinge	1
4	283–8	Pin – Clevis	1
5	3272–11	Pin – Cotter	2
6	83–2580	Cylinder – Lift	1
7	10–6060	Pin – Lift Cylinder	1
8	302–60	Fitting – Grease 90°	2
9	10–8110	Washer – Thrust	6
10	5–1226	Washer – Shim	2
11	3–0348	Bushing – Sleeve	6
12	10–7820	Pivot Hinge Assembly (Incl. Ref. #11)	1
13	84–6560	Decal – Danger	1
14	11–0160	Roller Shaft Screw Assy. (Incl. Ref. #15)	2
15	302–5	Fitting – Grease Straight	4
16	3–1506	Bushing – Flange	4
17	92–0586	Pull Arm Assembly L.H. (Incl. Ref. #16)	1
18	3290–317	Washer – Wave	2
19	92–0585	Pull Arm Assembly R.H. (Incl. Ref. #16)	1
20	52–2720	Roller Assembly (Incl. Ref. #22)	1

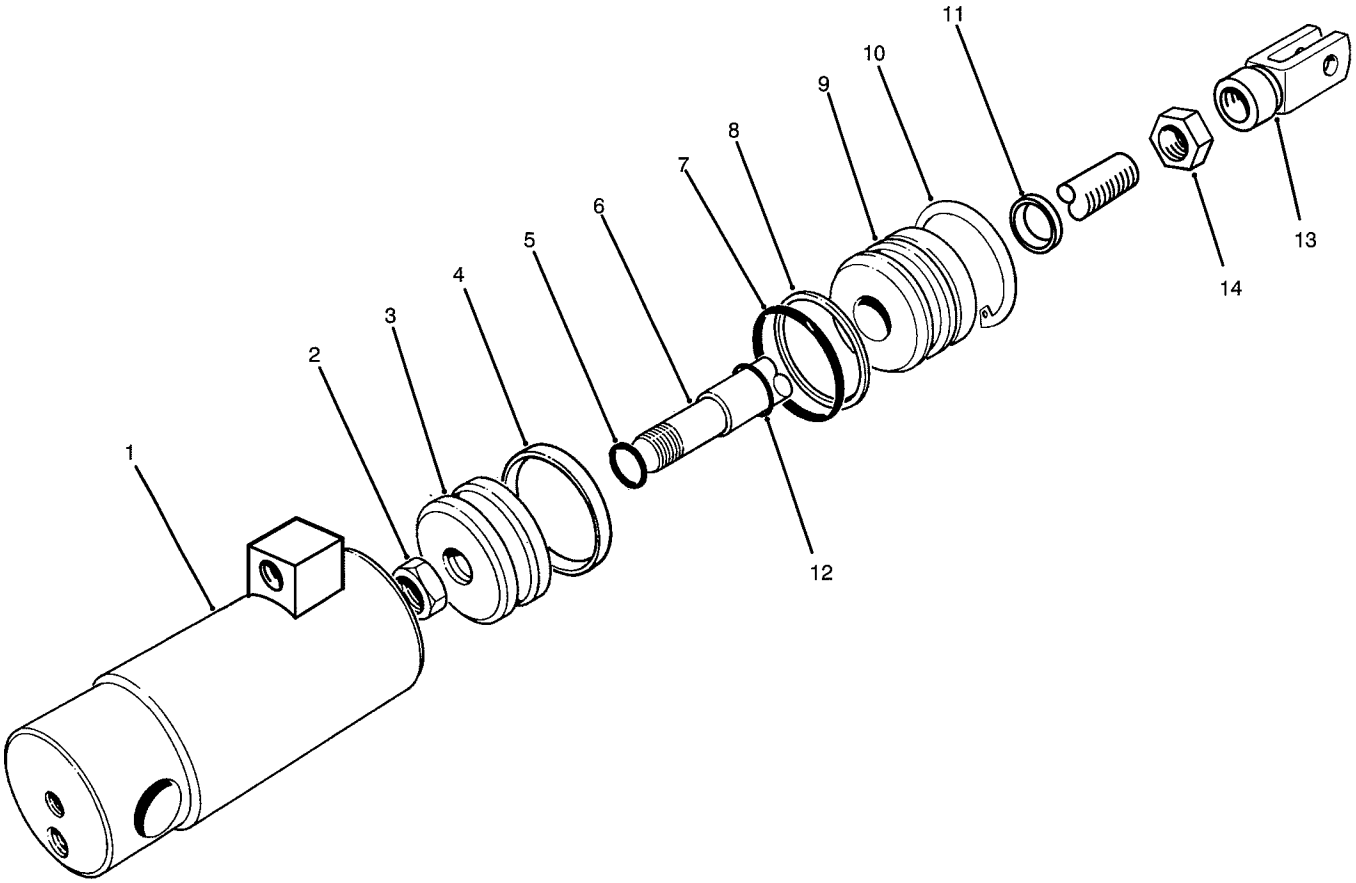
Ref. No.	Part No.	Description	No. Used
21	21–8470	Shaft – Roller	1
22	251–141	Bearing – Ball	2
23	3220–3	Nut – Jam	2
24	86–9810	Frame – Pull L.H.	1
25	8–7710	Ball Joint Receiver Assy. (Incl. Ref. #26–28)	2
26		Spring – Compression	2
27		Sleeve	2
28		Ring – Retaining	2
29	62–2460	Lift Arm Assembly L.H. (Incl. Ref. #11)	1
30	62–2390	Bar – Lift L.H.	1
31	3256–26	Washer – Flat	1
32	57–7650	Spring – Torsion	1
33	63–8750	Pin – Pivot	1
34	302–2	Fitting – Grease Straight	1
35	3253–21	Washer – Lock	2
36	3256–24	Washer – Flat	2
37	10–6090	Pin – Pivot	1
38	237–78	Seal – O–Ring	2
39	63–3850	Hose – Hydraulic (Incl. Ref. #38)	1
40	83–1690	Hose – Hydraulic (Incl. Ref. #38)	1
41	3253–4	Washer – Lock	1



PULL FRAME ASSEMBLY R.H.

Ref. No.	Part No.	Description	No. Used
1	86–9820	Frame – Pull R.H.	1
2	3220–3	Nut – Jam	2
3	84–6560	Decal – Danger	1
4	8–7710	Ball Joint Receiver Assy. (Incl. Ref. #5–7)	2
5		Spring – Compression	2
6		Sleeve	2
7		Ring – Retaining	2
8	62–2440	Lift Arm Assembly (Incl. Ref. #14)	1
9	62–2420	Bar – Lift	1
10	63–8750	Pin – Pivot	1
11	57–7650	Spring – Torsion	1
12	3256–26	Washer – Flat	1
13	3272–11	Pin – Cotter	2
14	3–0348	Bushing – Sleeve	6
15	10–8110	Washer – Thrust	6
16	5–1226	Washer – Shim	2
17	302–60	Fitting – Grease 90°	2
18	283–8	Pin – Clevis	1
19	10–6060	Pin – Pivot	1
20	3256–23	Washer – Flat	3
21	322–1	Screw – Cap Hex. Hd.	3
22	83–2580	Hydraulic Cylinder Assy.	1

Ref. No.	Part No.	Description	No. Used
23	302–2	Fitting – Grease	1
24	10–6110	Pin – Pivot	1
25	10–7820	Pivot Hinge Assembly (Incl. Ref. #14)	1
26	3256–24	Washer – Flat	2
27	3253–21	Washer – Lock	2
28	11–0160	Roller Shaft Screw Assy. (Incl. Ref. #29)	2
29	302–5	Fitting – Grease	4
30	3–1506	Bushing – Flange	4
31	92–0586	Pull Arm Assembly L.H. (Incl. Ref. #30)	1
32	3290–317	Washer – Wave	2
33	10–6090	Pin – Pivot	1
34	92–0585	Pull Arm Assembly R.H. (Incl. Ref. #30)	1
35	52–2720	Roller Assembly (Incl. Ref. #37)	1
36	21–8470	Shaft – Roller	1
37	251–141	Bearing – Ball	2
38	237–78	Seal – O–Ring	2
39	63–3880	Hose – Hydraulic (Incl. Ref. #38)	2



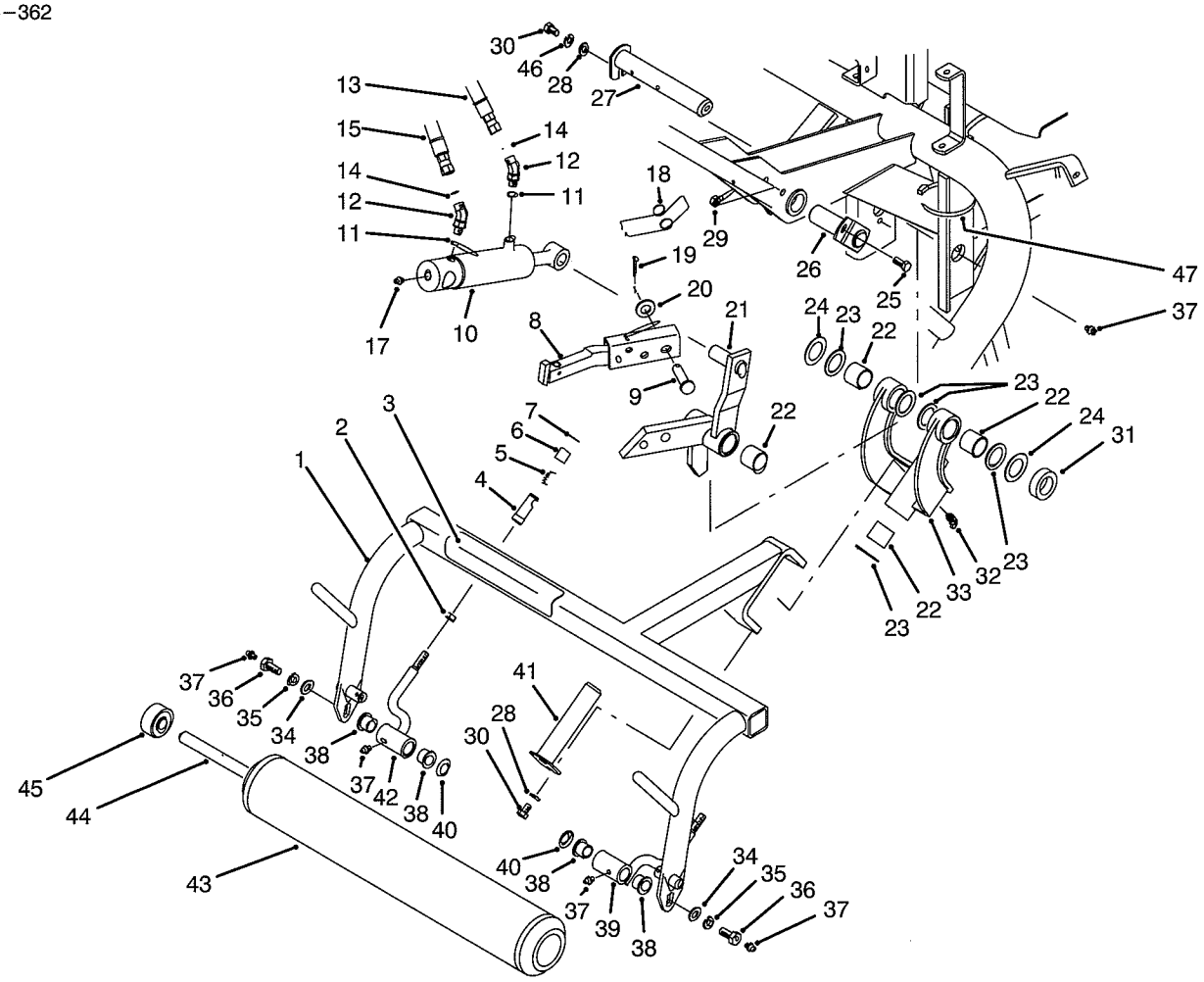
T–1246

HYDRAULIC CYLINDER ASSEMBLY NO. 83–2580

Ref. No.	Part No.	Description	No. Used
1		Barrel	1
2	32152–10	Nut – Lock	1
3	52–1990	Piston	1
4		Uniring	1
5		Seal – O–Ring	1
6	76–1860	Shaft	1
7		Seal – O–Ring	1
8		Washer – Back–Up	1
9	65–4860	Head	1

Ref. No.	Part No.	Description	No. Used
10	32120–8	Ring – Retaining	1
11		Seal – Dust	1
12		Seal – PDF	1
13	76–1850	Clevis	1
14	3220–6	Nut – Jam	1
*	86–5390	Seal Kit (Incl. Ref. #4, 5, 7, 8, 11 & 12)	1

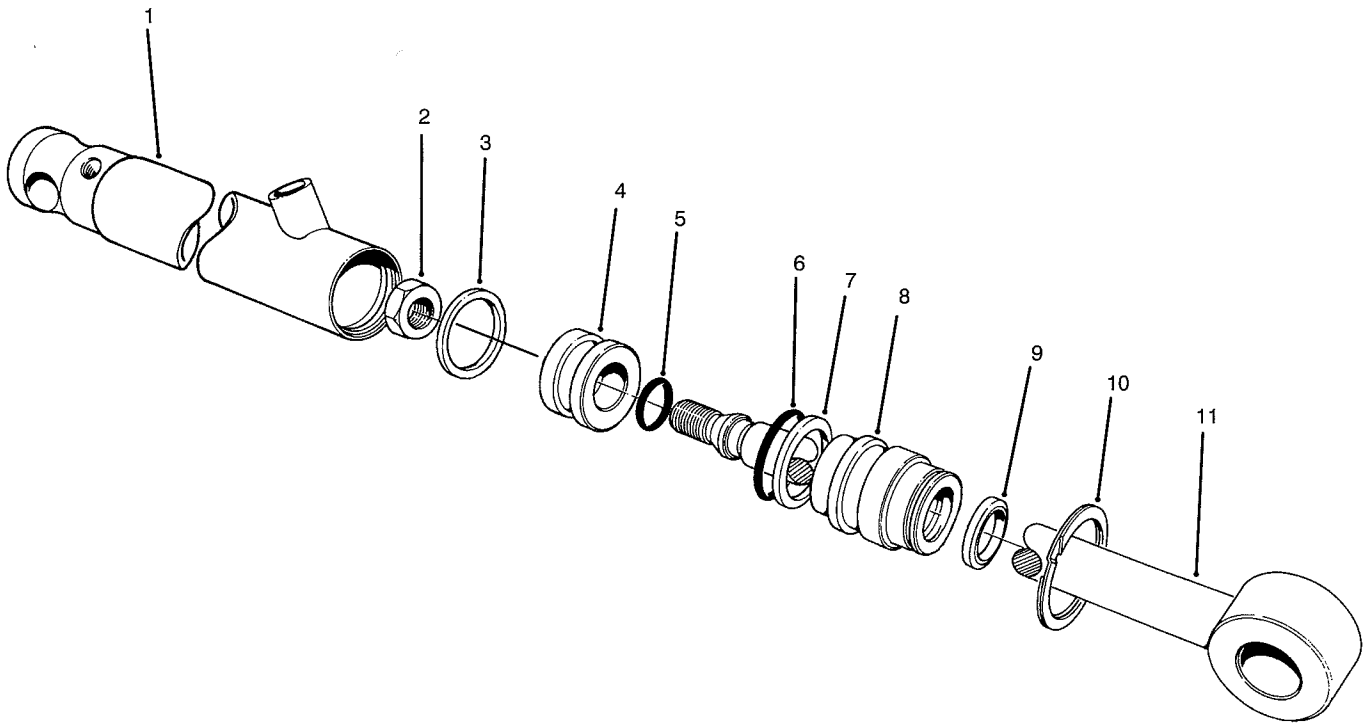
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PULL FRAME ASSEMBLY REAR

Ref. No.	Part No.	Description	No. Used
1	86–9820	Frame – Pull Rear	1
2	3220–3	Nut – Jam	2
3	84–6560	Decal – Danger	1
4	8–7710	Ball Joint Receiver Assy. (Incl. Ref. 5–7)	2
5		Spring – Compression	2
6		Sleeve	2
7		Ring – Retaining	2
8	62–2420	Bar – Lift	1
9	63–8750	Pin – Pivot	1
10	83–7230	Hydraulic Cylinder Assembly	1
11	237–35	Seal – O–Ring	2
12	340–103	Fitting – Hydraulic 45° (Incl. Ref. #11 & 14)	2
13	83–1680	Hose – Hydraulic	1
14	237–78	Seal – O–Ring	2
15	88–9700	Hose – Hydraulic	1
17	302–2	Fitting – Grease	1
18	57–7650	Spring – Torsion	1
19	3272–11	Pin – Cotter	1
20	3256–26	Washer – Flat	1
21	68–5380	Lift Arm Assembly (Incl. Ref. #22)	1
22	3–0348	Bushing – Sleeve	6
23	10–8110	Washer – Thrust	6
24	5–1226	Washer – Shim	2
25	322–3	Screw – Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
26	68–5560	Pin – Cylinder Pivot	1
27	27–2550	Pin – Pivot	1
28	3256–23	Washer – Flat	2
29	3296–29	Nut – Lock	1
30	322–1	Screw – Cap Hex. Hd.	2
31	27–2540	Spacer – Hub	1
32	302–60	Fitting – Grease 90°	1
33	10–7820	Pivot Hinge Assembly (Incl.Ref. #22)	1
34	3256–24	Washer – Flat	2
35	3253–21	Washer – Lock	2
36	11–0160	Roller Shaft Screw Assy. (Incl. Ref. #37)	2
37	302–5	Fitting – Grease Straight	5
38	3–1506	Bushing – Flange	4
39	92–0586	Pull Arm Assembly L.H. (Incl. Ref. #38)	1
40	3290–317	Washer – Wave	2
41	10–6090	Pin – Pivot	1
42	92–0585	Pull Arm Assembly R.H. (Incl. Ref. #38)	1
43	52–2720	Roller Assembly (Incl. Ref. #45)	1
44	21–8470	Shaft – Roller	1
45	251–141	Bearing – Ball	2
46	3253–4	Washer – Lock	1
47	3290–379	Tie – Cable	1



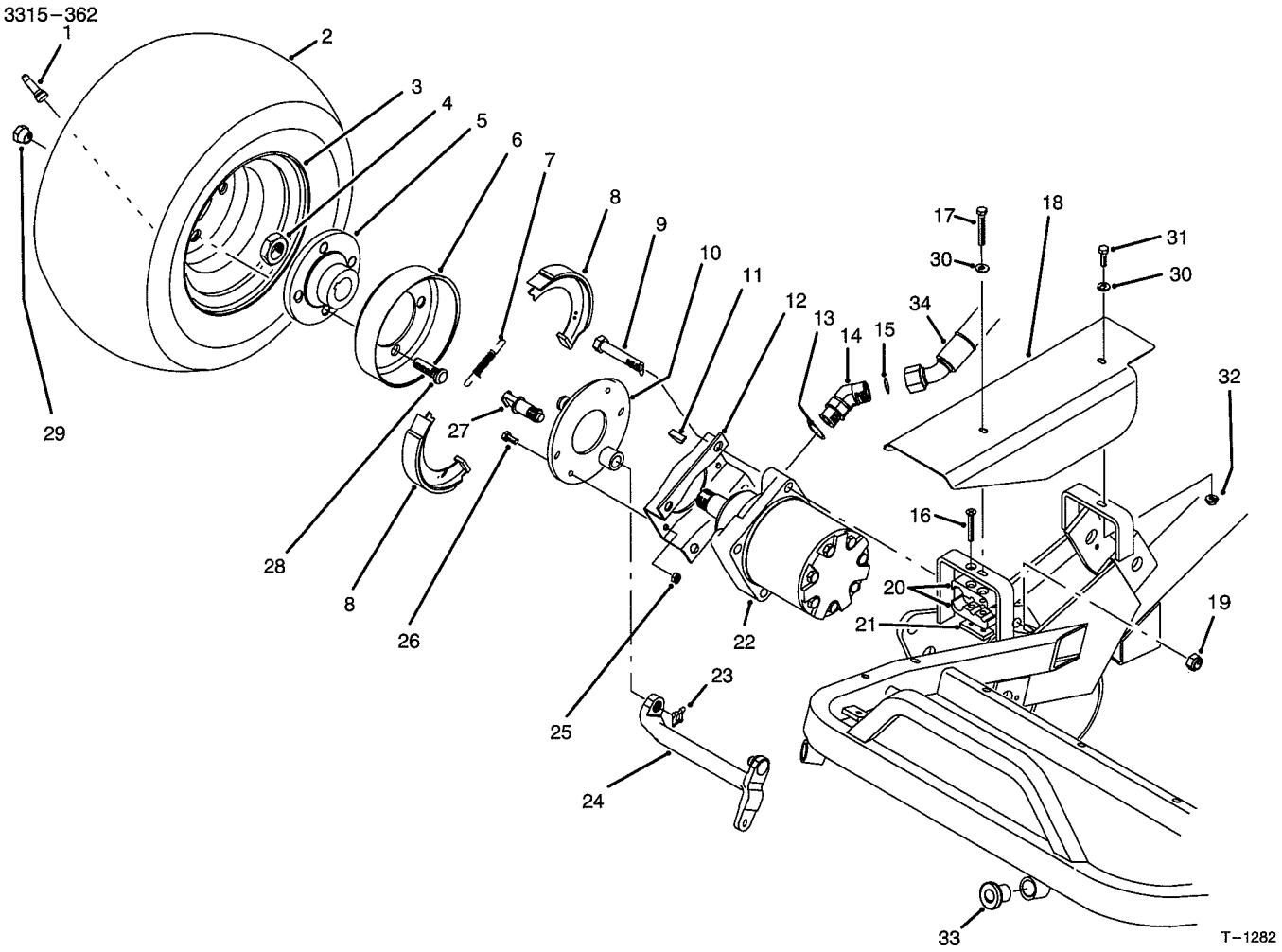
T–0640

HYDRAULIC CYLINDER NO. 83–7230

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

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

*Not Illustrated

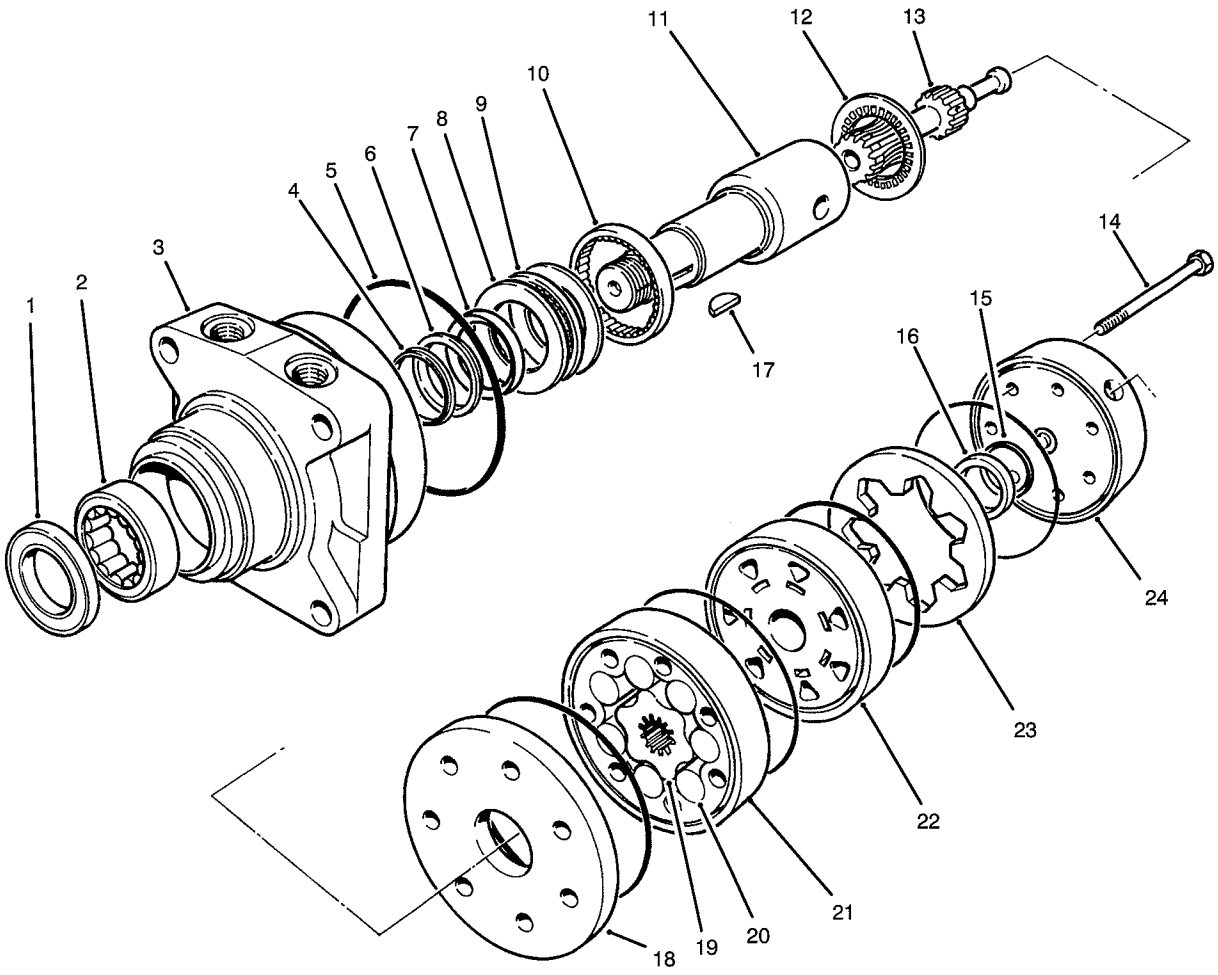


FRONT WHEEL & BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	232–24	Stem – Valve	2
2	28–3680	Tire	2
3	217–60	Rim	2
4	26–3790	Nut – Lock	2
5	10–6870	Hub – Wheel	2
6	10–6850	Drum – Brake	2
7	70–9880	Spring – Return	4
8	70–9840	Shoe – Brake	4
9	325–11	Screw – Cap Hex. Hd.	8
10	70–9870	Plate – Backing	2
11	3257–42	Key – Woodruff	2
12	84–2000	Bracket – Brake	2
13	237–80	Seal – O–Ring	4
14	340–14	Fitting – Hydraulic 45° (Incl. Ref. #13 & 15)	4
15	237–65	Seal – O–Ring	4
16	3289–20	Screw – Flat Hd.	2
17	321–11	Screw – Hex. Washer Hd.	1
18	83–0190	Cover – R.H.	1
19	3296–23	Nut – Lock	8
20	57–6140	Clamp Half – Tube	2

Ref. No.	Part No.	Description	No. Used
21	83–1220	Plate – Clamp	1
22	75–9990	Motor – Hydraulic	2
23	70–9850	Clip – Retaining	2
24	71–1510	Arm – Brake	2
25	3296–42	Nut – Lock	8
26	321–5	Screw – Cap Hex. Hd.	8
27	70–9860	Cam – Brake	2
28	85–6540	Stud – Drive	8
29	242–50	Nut – Lug	8
30	3256–22	Washer – Flat	2
31	321–4	Screw – Cap Hex. Hd.	1
32	32128–33	Nut – Lock	1
33	83–1700	Bushing – Flange	2
34	83–2450	Hose – Hydraulic (Top)	1
*	83–2460	Hose – Hydraulic (Bottom)	1
*	10–6821	Brake Drum Assembly (Incl. Ref. #5, 6 & 28)	2
*	71–1500	Brake Assembly (Incl. Ref. #7, 8, 10, 23 & 27)	2

*Not Illustrated



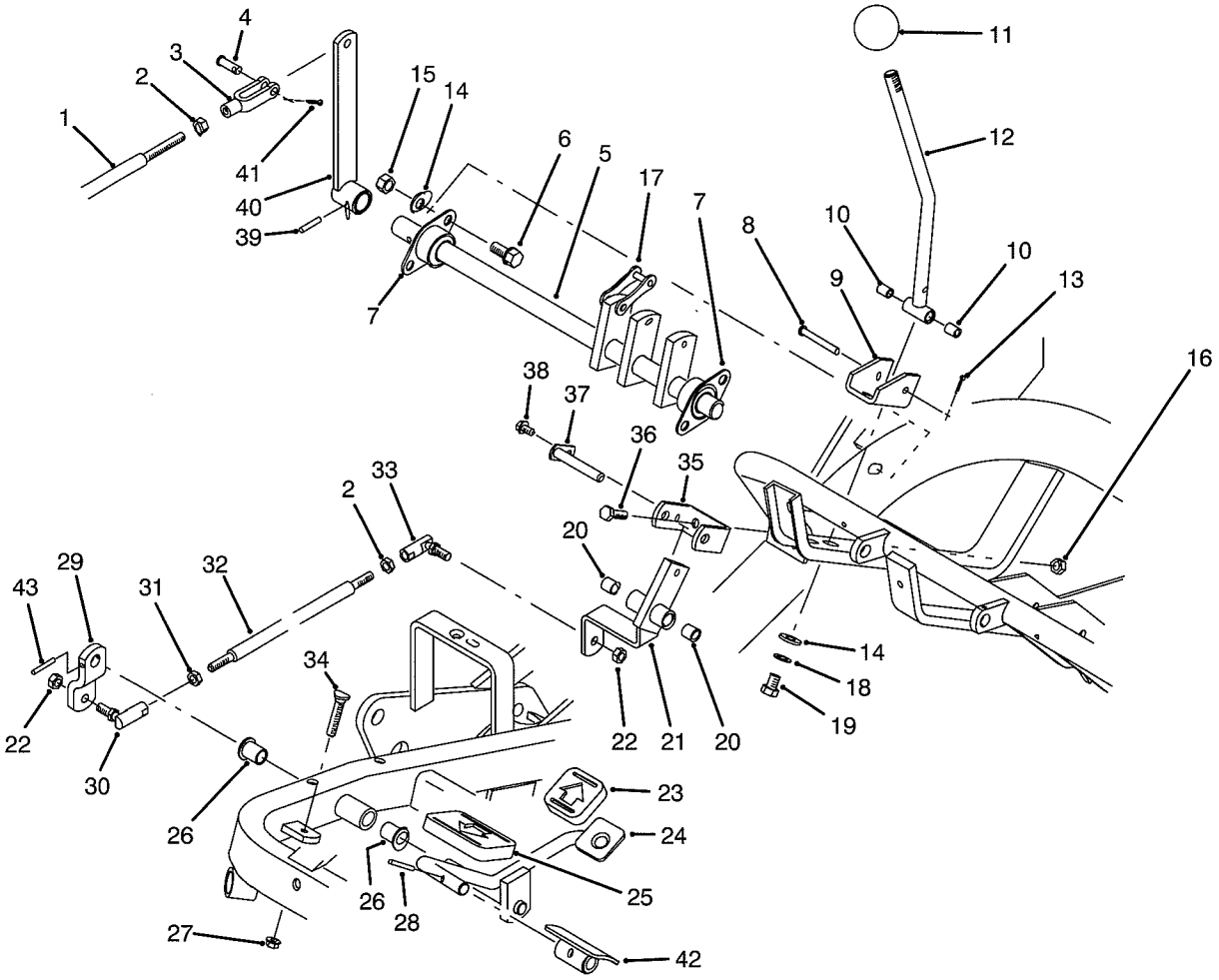
T–0983

HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 75–9990

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

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

*Not Illustrated

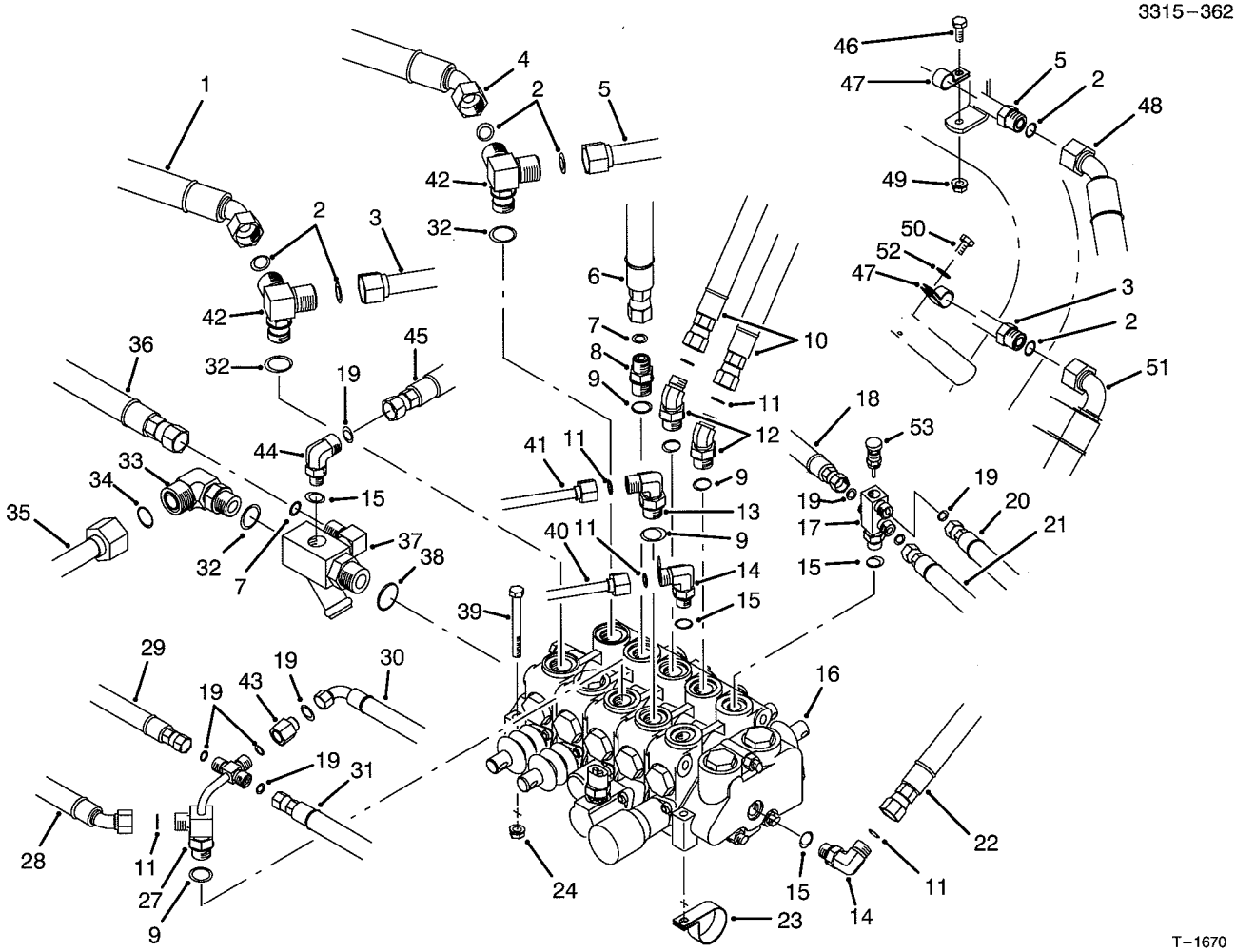


T–1287

TRACTION CONTROLS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	49–5430	Rod – Control	1
2	3220–2	Nut – Jam	2
3	282–2	Clevis – Rod	1
4	283–61	Pin – Clevis	1
5	44–0870	Shaft – Cam	1
6	3234–1	Screw – Hex. Flange Hd.	4
7	27–2320	Bearing – Flange	2
8	283–57	Pin – Clevis	1
9	49–6220	Bracket – Control Arm	1
10	256–251	Bushing – Sleeve	2
11	233–48	Knob	1
12	83–0590	Traction Handle Assembly (Incl. Ref. #10)	1
13	3272–4	Pin – Cotter	1
14	3256–24	Washer – Flat	6
15	3296–59	Nut – Lock	4
16	3296–29	Nut – Lock	2
17	57–6220	Link	5
18	3254–6	Washer – I.T.L.W.	2
19	3211–2	Screw – Cap Hex. Hd.	2
20	256–2	Bushing – Sleeve	2
21	49–6260	Traction Pivot Assembly (Incl. Ref. #20)	1

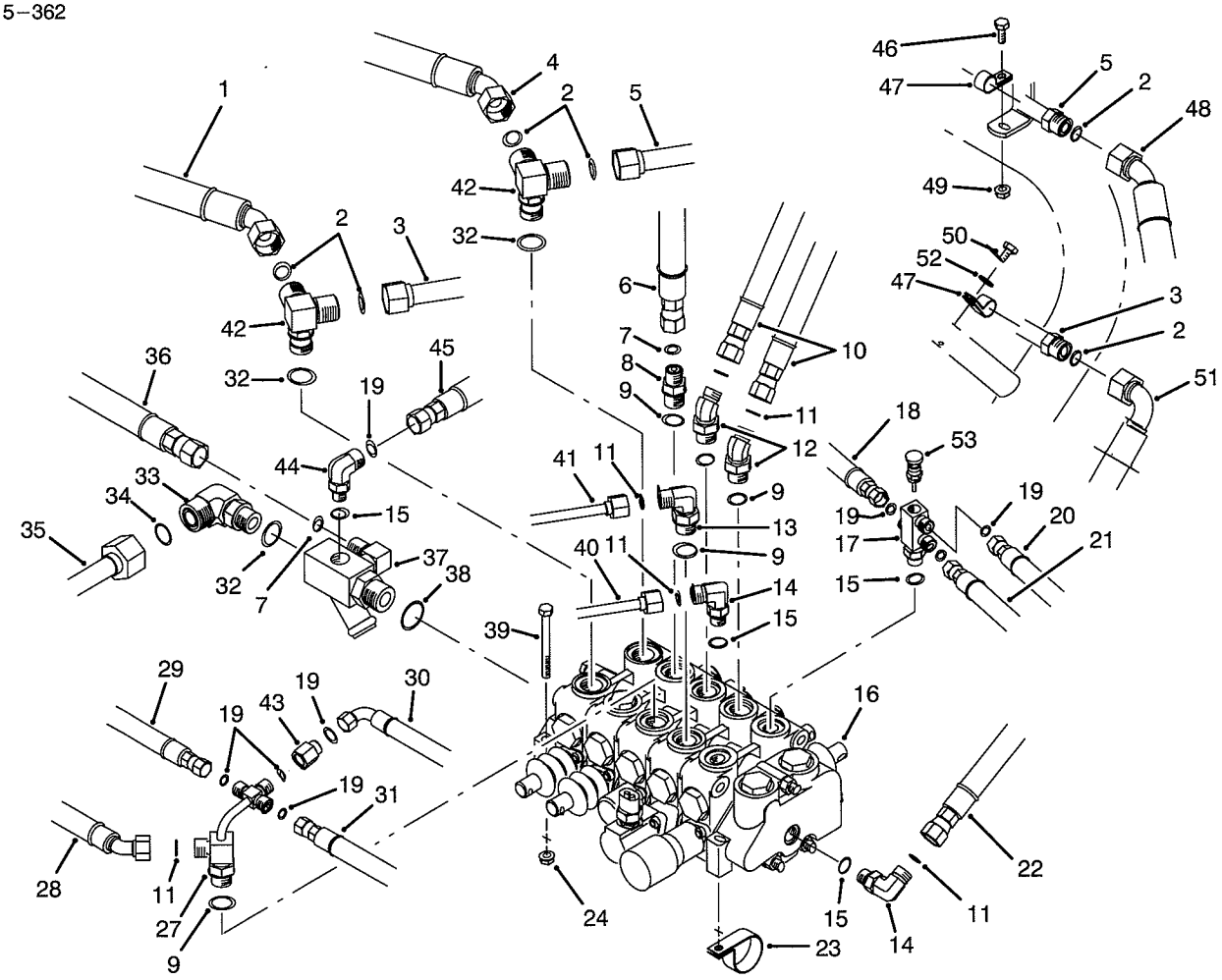
Ref. No.	Part No.	Description	No. Used
22	3296–4	Nut – Lock	2
23	74–9110	Pad – Reverse Pedal	1
24	83–0540	Pedal – Traction	1
25	74–9100	Pad – Forward Pedal	1
26	256–155	Bushing – Flange	2
27	32128–20	Nut – Flange Lock	1
28	32121–45	Pin – Roll	1
29	83–0630	Arm – Traction Pivot	1
30	2411–42	Joint – Ball L.H. Thread	1
31	3220–20	Nut – Jam L.H. Thread	1
32	83–0580	Rod – Traction Control	1
33	2411–43	Joint – Ball R.H. Thread	1
34	77–0480	Screw – Traction Stop	1
35	49–6250	Bracket – Traction Pivot	1
36	322–5	Screw – Cap Hex. Hd.	2
37	49–6290	Shaft – Traction Pivot	1
38	12–3270	Screw – Hex. Washer Hd.	1
39	32121–6	Pin – Roll	1
40	47–5320	Lever – Control	1
41	3272–6	Pin – Cotter	1
42	49–6440	Pedal – Forward	1
43	32121–51	Pin – Roll	1



CONTROL VALVE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83–2450	Hose – Hydraulic	1
2	237–65	Seal – O–Ring	6
3	70–7130	Tube Assy. (Incl. Ref. #2)	1
4	83–2460	Hose – Hydraulic	1
5	83–1200	Tube Assy. (Incl. Ref. #2)	1
6	92–1189	Hose – Hydraulic	1
7	237–30	Seal – O–Ring	1
8	340–4	Fitting – Hydraulic Straight (Incl. Ref. #7 & 9)	1
9	237–79	Seal – O–Ring	4
10	83–1190	Hose – Hydraulic	2
11	237–22	Seal – O–Ring	6
12	340–138	Fitting – Hydraulic 45° (Incl. Ref. #9 & 11)	2
13	340–18	Fitting – Hydraulic 90° (Incl. Ref. #9 & 11)	1
14	340–77	Fitting – Hydraulic 90° (Incl. Ref. #11 & 15)	2
15	237–42	Seal – O–Ring	6
16	84–2202	Control Valve Assembly	1
17	92–0587	Fitting – Valve Body	1
18	63–3880	Hose – Hydraulic	1
19	237–21	Seal – O–Ring	6
20	88–9700	Hose – Hydraulic	1
21	83–1690	Hose – Hydraulic	1
22	83–1170	Hose – Hydraulic	1

Ref. No.	Part No.	Description	No. Used
23	304–61	Clamp – R	1
24	32128–20	Nut – Flange Lock	3
27	83–1670	Fitting – Special (Incl. Ref. #9, 11 & 19)	1
28	74–3830	Hose – Hydraulic	1
29	63–3880	Hose – Hydraulic	1
30	83–1680	Hose – Hydraulic	1
31	63–3850	Hose – Hydraulic	1
32	237–80	Seal – O–Ring	3
33	340–16	Fitting – Hydraulic 90° (Incl. Ref. #32 & 34)	1
34	237–58	Seal – O–Ring	1
35	63–4040	Tube – Hydraulic	1
36	63–3840	Hose – Hydraulic	1
37	68–5260	Fitting – Manifold Tee (Incl. Ref. #7 & 38)	1
38	237–81	Seal – O–Ring	1
39	322–14	Screw – Cap Hex. Hd.	3
40	63–4020	Tube – Hydraulic	1
41	63–4030	Tube – Hydraulic	1
42	63–4050	Fitting – Tee (Incl. Ref. #2 & 32)	2
43	71–0990	Orifice (Incl. Ref. #19)	1
44	340–137	Fitting – Hydraulic 45° (Incl. Ref. #15 & 19)	1
45	83–1350	Hose – Hydraulic	1

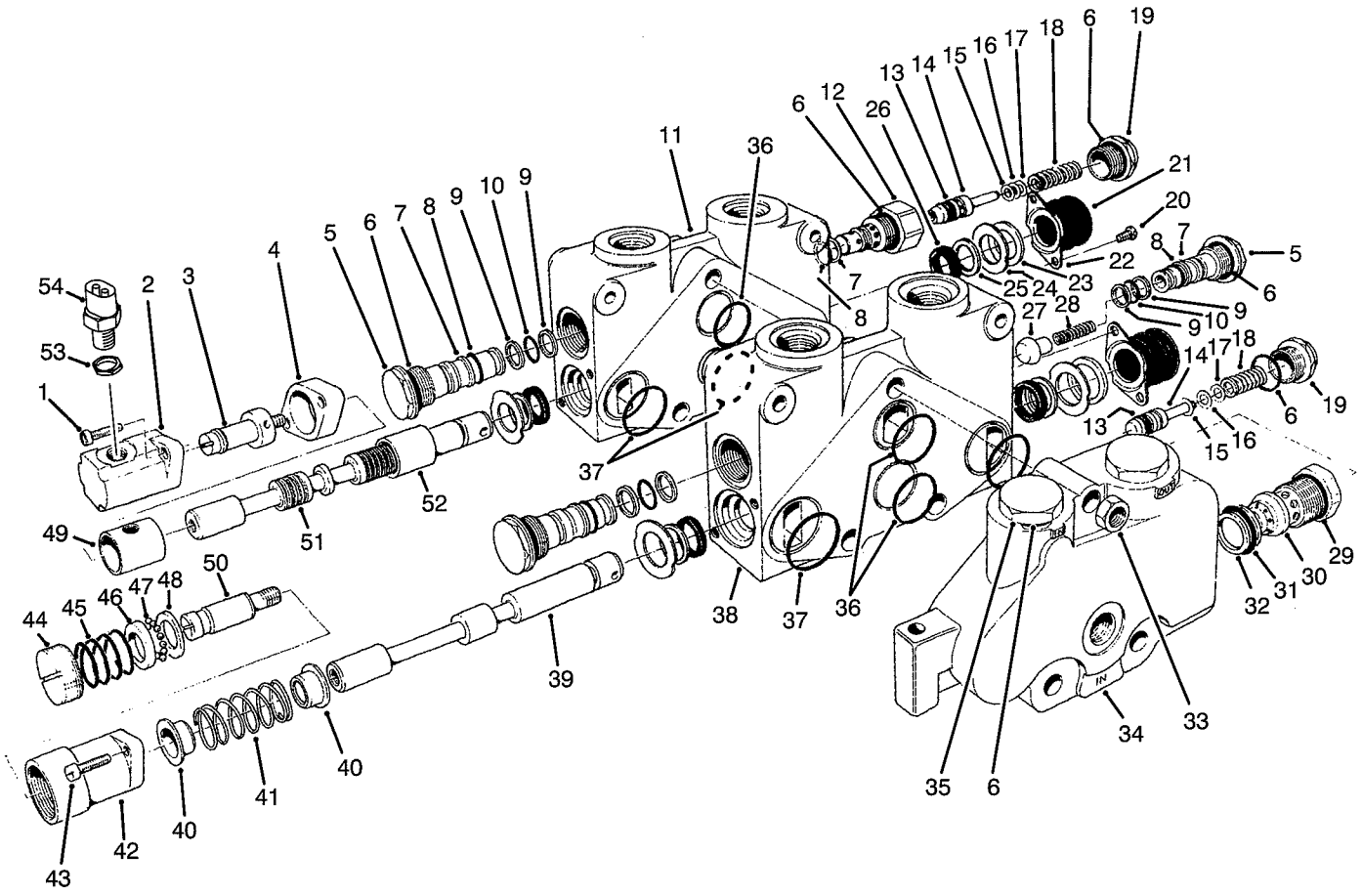


CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
46	3234–4	Screw – Cap Hex. Hd.	1
47	2412–41	Clamp – R	2
48	70–7150	Hose – Hydraulic	1
49	3296–16	Nut – Lock	1
50	12–3270	Screw – Thread Forming	1

Ref. No.	Part No.	Description	No. Used
51	70–8610	Hose – Hydraulic	1
52	3256–22	Washer – Flat	1
53	92–0588	Valve – Needle	1
*	88–9500	Needle Valve Assembly (Incl. Ref. #15, 17, 19 & 53)	1

*Not Illustrated



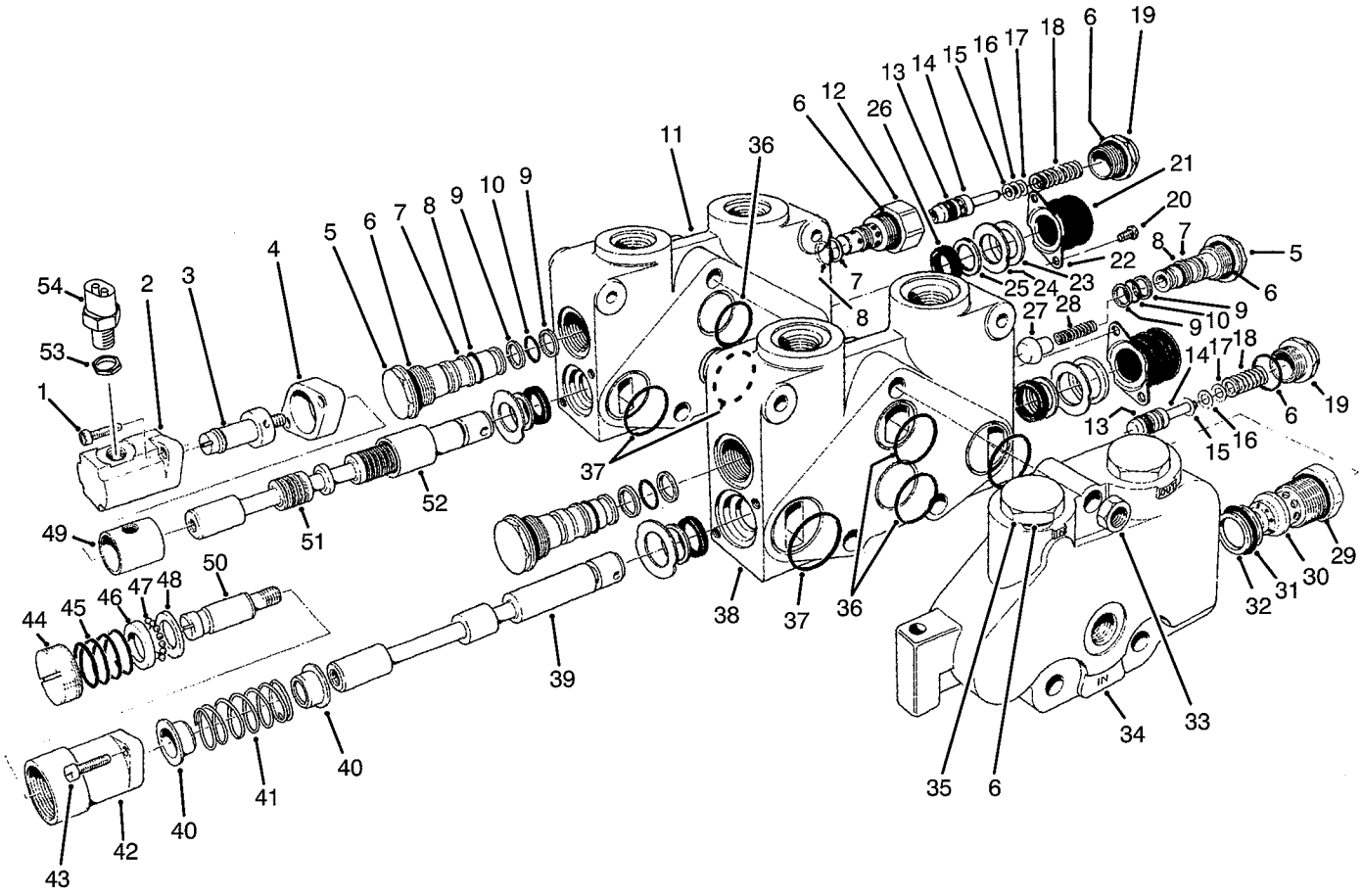
T–1318

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

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

Ref. No.	Part No.	Description	No. Used
24	92–2547	Plate – Seal Retainer	4
25	92–2546	Wiper – Seal	4
26	353–957	Seal – Lip	4
27	353–301	Poppet	1
28	353–304	Spring	1
29	353–331	O–Ring	1
30	353–760	Body Relief	1
31	353–758	Seal – O–Ring	1
32	353–952	Ring – Backup	1
33	3217–7	Nut – Hex	3
34	353–772	Left End Cover	1
35	353–721	Plug (Incl. Ref. #6)	2
†36		O–Ring	3
†37		O–Ring	4
†38		Housing Section #1	1
†39		Spool V20 SPL	1
40	353–417	Collar Spring	2
41	92–3058	Spring	1
42	353–780	Bonnet – R. Detent	1
43	3274–15	Screw – Fillister Hd.	2
44	353–763	Cap – Adjustment	1
45	353–579	Spring	1
46	42–2680	Race R. Detent	1
47	52–5880	Ball – Steel	12

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

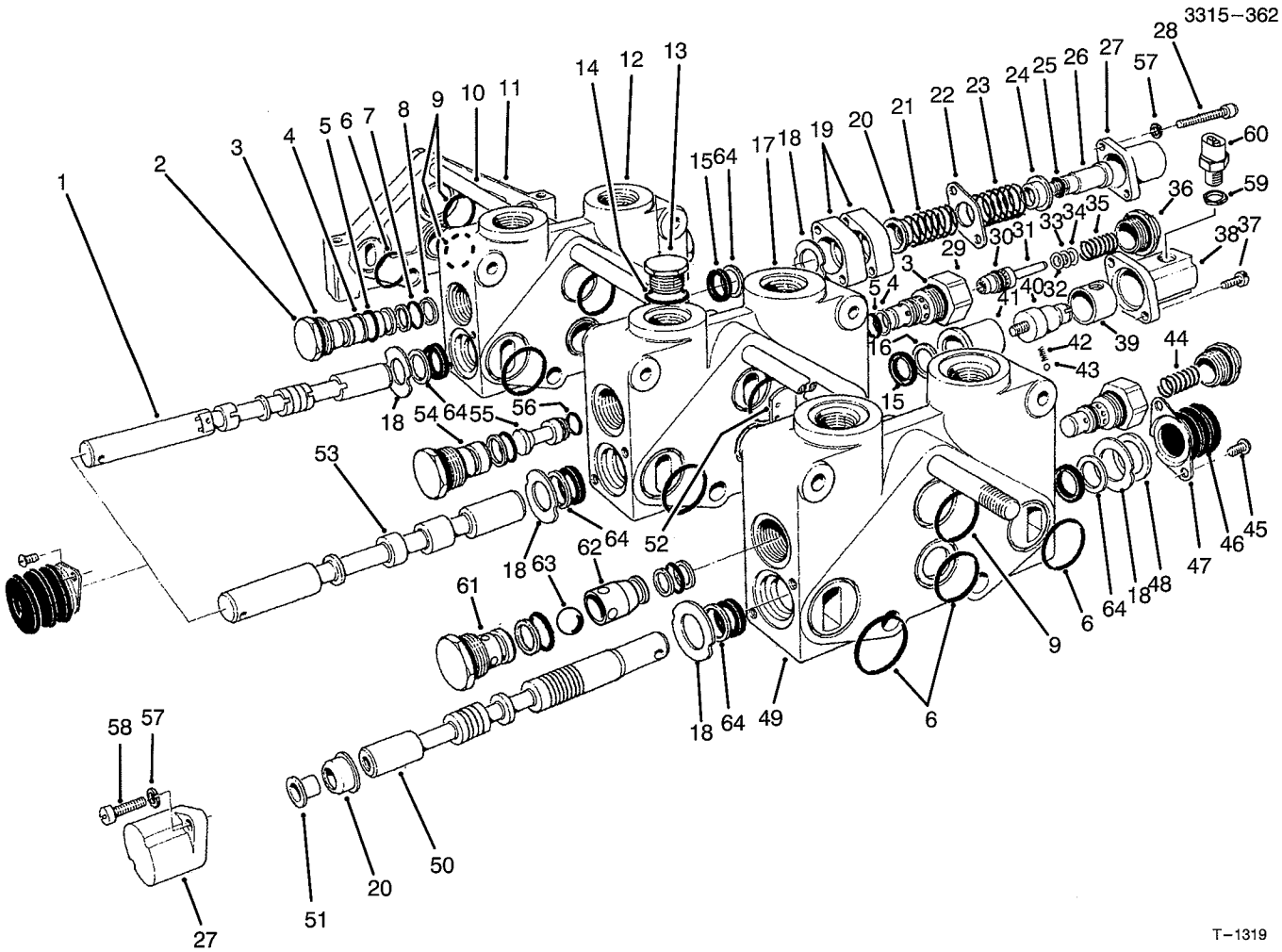


CONTROL VALVE ASSEMBLY NO. 84–2202 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
48	354–29	Plate – Thrust	1
49	353–728	Sleeve	1
50	353–780	Spud – Detent Out (Incl. Ref. #44)	1
†51		Spool V20 3 Way F.F.	1
52	353–732	Sleeve – Detent	1
53	38–0410	Nut – Hex.	1
54	83–1890	Switch – Ball	1
*	353–766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13–19, 29–32)	1
*	353–768	Section #1 Complete	1
*	353–837	Section #2 Complete	1
*	353–780	Positioner – R. Detent (Out) (Incl. Ref. #3 & 40–49)	1

Ref. No.	Part No.	Description	No. Used
*	353–839	Positioner – DI (SPL) Assy. (Incl. Ref. #1, 3–5, 50 & 52)	1
*	353–642	Relief – RC Mod. (Incl. Ref. #6–8 & 12–19)	2
*	353–854	Boot – Spool Assembly (Incl. Ref. #20–23)	2
*	353–835	Seals – Section Set (Incl. Ref. #36 & 37)	1
*	92–2548	Seal – Spool (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

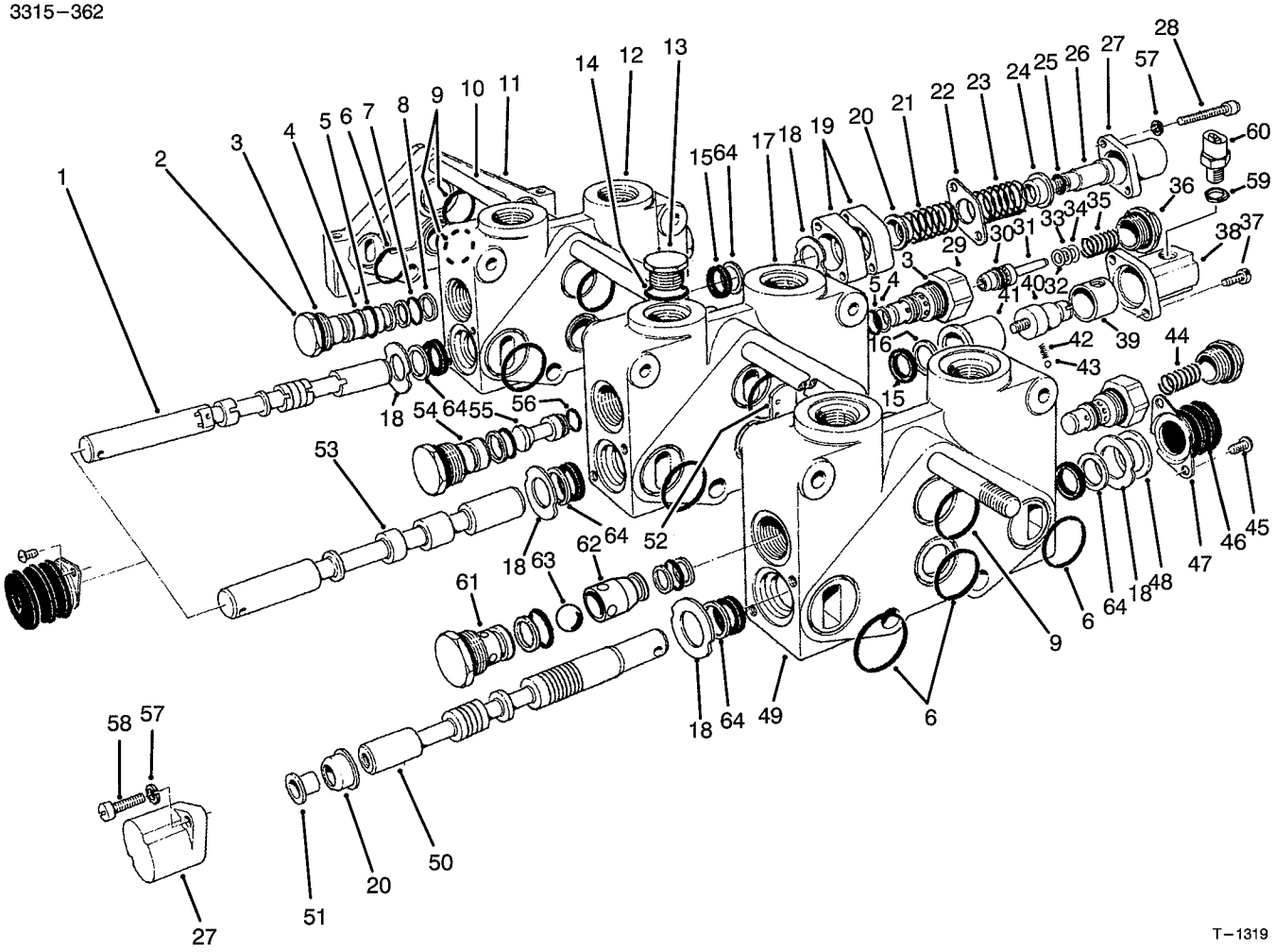


CONTROL VALVE ASSY. NO. 84–2202 (Sections 3 Thru 5)

Ref. No.	Part No.	Description	No. Used
†1		Spool #5	1
2	353–481	Plug – Load Check (Incl. Ref. #3–5 & 7–8)	2
3	237–54	O–Ring	6
4	353–306	Ring – Backup	5
5	353–305	O–Ring	5
†6		O–Ring	11
7	353–302	O–Ring	3
8	353–303	Ring – Backup	6
†9		O–Ring	5
10	353–853	Bolt – Hex Hd.	3
11	353–668	Plate – Cap, Cover RH	1
12		Housing V20 #5	1
13	353–550	Plug Assembly (Incl. Ref. #14)	1
14	353–848	O–Ring	1
15	353–957	Seal – Lip	6
16	353–958	Ring – Backup	1
†17		Housing V20 #4	1
18	92–2547	Plate – Seal Retainer	5
19	353–733	Spacer – Bonnet	2
20	353–417	Collar Spring	2
21	353–831	Spring	1
22	353–529	Plate Seal	1
23	353–530	Spring	1

Ref. No.	Part No.	Description	No. Used
24	353–808	Collar – Spring	1
25	353–830	O–Ring	1
26	353–829	Collar Spool	1
27	354–26	Bonnet	2
28	354–28	Screw – Hex, Socket Hd.	2
29	353–851	Body – Relief CP–RC Mod.	2
30	353–392	Seal – Relief Poppet PTFE	2
31	353–531	Poppet Assembly (Incl. Ref. #30)	2
32	353–328	Washer – Shim	A/R
33	353–329	Washer – Shim	A/R
34	353–330	Washer – Shim	A/R
35	353–398	Spring	1
36	353–334	Cap – Relief	2
37	52–5900	Screw – Fillister Hd.	4
38	353–847	Bonnet (SPL)	1
39	353–849	Sleeve	1
40	353–846	Spud – DI (SPL)	1
41	353–845	Sleeve – Detent	1
42	353–730	Spring	1
43	353–731	Ball	1
44	353–855	Spring	1
45	3274–52	Screw – Hex. Socket Hd.	6
46	353–575	Boot – Dust Cap	3
47	353–559	Retainer – Boot	3

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



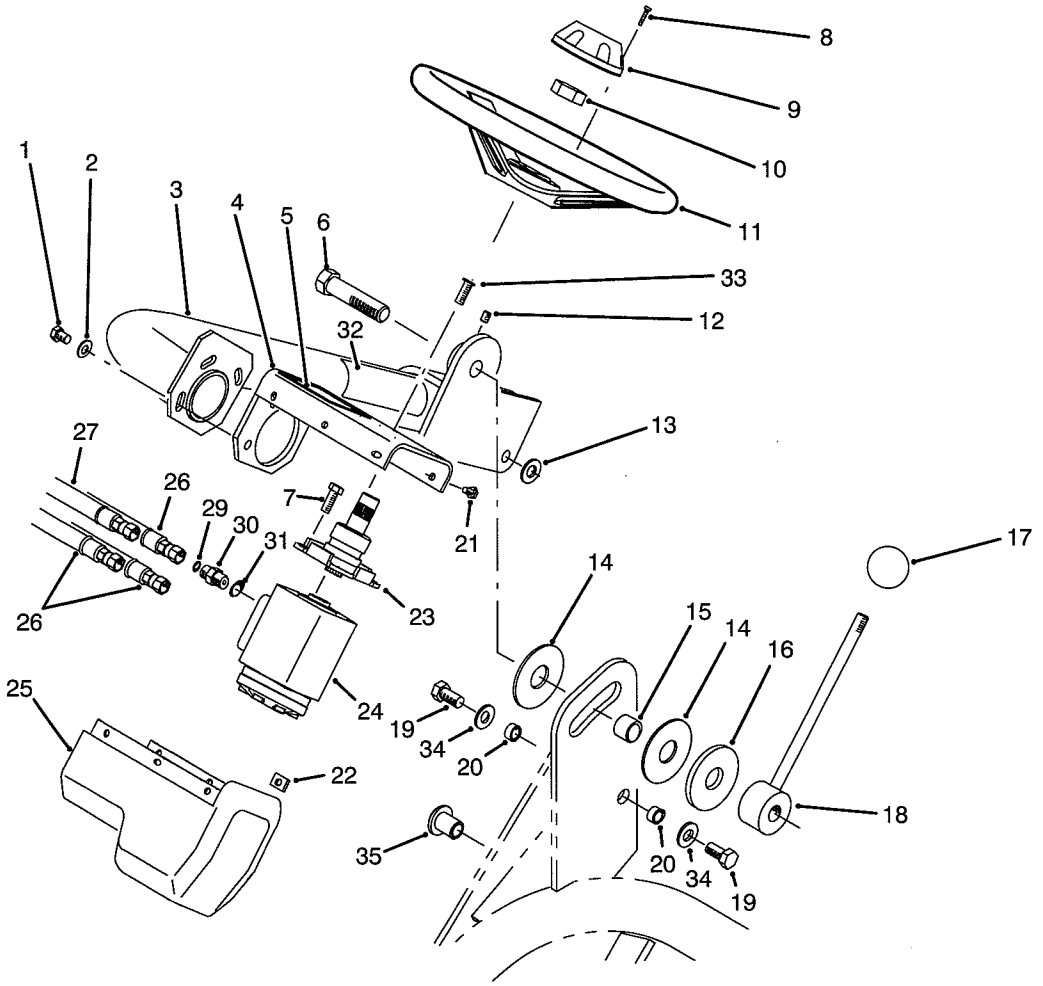
CONTROL VALVE ASSEMBLY NO. 84–2202
(Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
†48	353–560	Washer – Breather	3
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1
51	52–5860	Collar – Spool	1
52	354–122	Disc – Seal	1
†53		Spool #4	1
54	353–953	Plug Assembly	1
55	353–844	Plug Series (Incl. Ref. #56)	1
56	353–850	O–Ring	1
57	3253–3	Washer – Lock	4
58	3274–84	Screw – Cap, Hex. Hd.	4
59	38–0410	Nut – Hex.	1
60	83–1890	Switch – Ball	1
61	353–483	Body – Anticavitation	1
62	353–484	Retainer – Ball	1
63	353–737	Ball	1
64	92–2546	Wiper – Spool	5
*	354–129	Anticavitation Check Assy. (Incl. Ref. #3, 4, 5, 7, 8 & 61–63)	1
*	353–835	Seals – Section Set (Incl. Ref. #6 & 9)	1
*	353–854	Boot – Spool Assembly (Incl. Ref. #45–48)	3

Ref. No.	Part No.	Description	No. Used
*	353–770	Section #3 Assembly (Complete)	1
*	354–25	Section #4 Assembly (Complete)	1
*	353–834	Section #5 Assembly (Complete)	1
*	353–841	Position – Spool Assembly (Incl. Ref. #20 27 37 & 51)	1
*	353–840	Position – DI (SP) Assy. (Incl. Ref. #37–43)	1
*	353–642	Relief – RC Mod. Assembly (Incl. Ref. #3–5 & 29–36)	1
*	353–833	Positioner Assembly (Incl. Ref. #19–28)	1
*	84–2202	Control Valve Assembly Complete	1
*	92–2548	Seals – Spool (End Set) (Incl. Ref. #15, 18 & 64)	1
*	92–2549	Seals – Spool (End Set #4 Rear Only) (Incl. Ref. #15, 16 & 18)	1
*	92–2545	Seals – Spool (Entire Valve Set)	1

*Not Illustrated

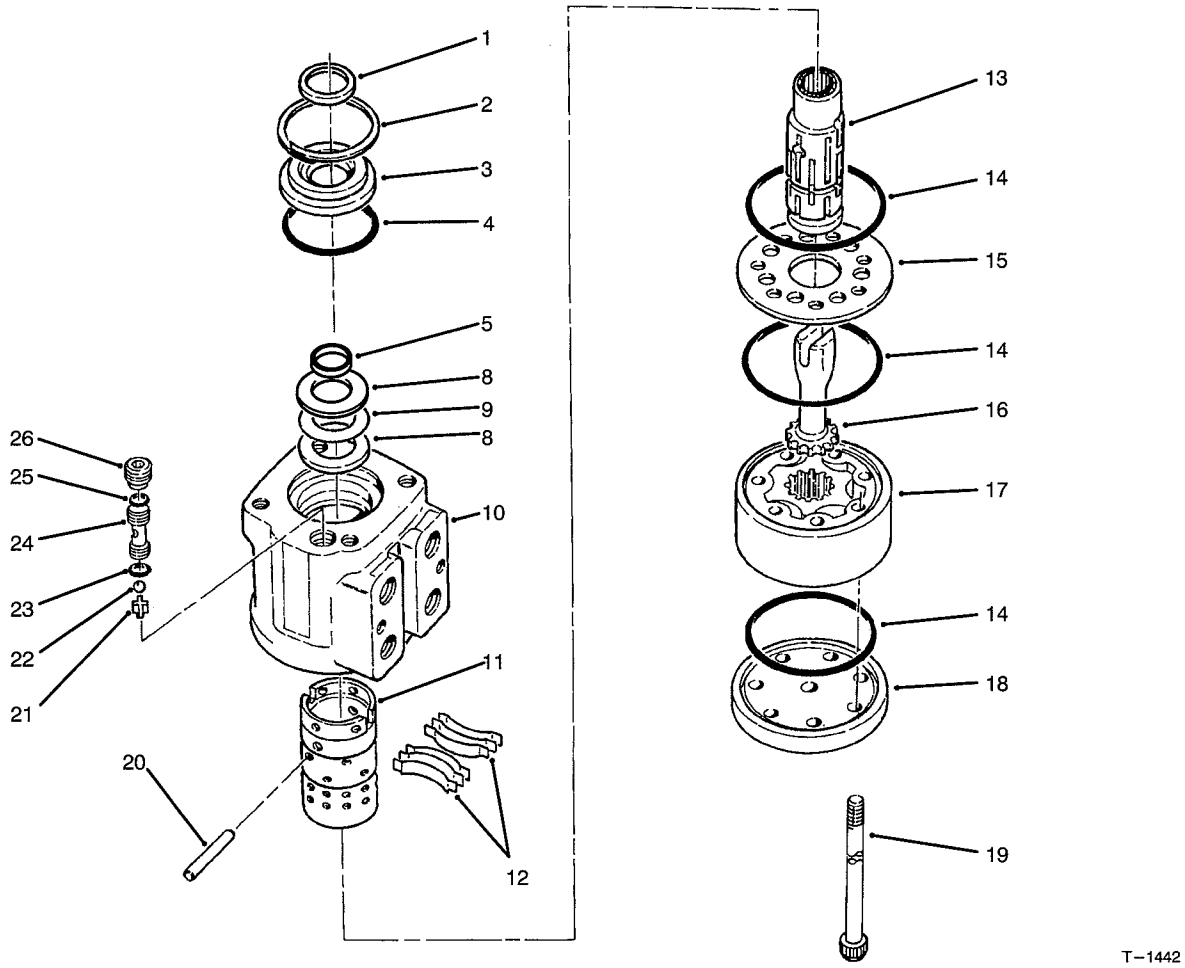
†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



STEERING ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274–80	Screw – Cap Hex. Hd.	3
2	3256–80	Washer – Flat	3
3	84–8760	Arm – Steering	1
4	83–0780	Support – Steering Valve	1
5	83–2520	Decal – Warning	1
6	83–0750	Screw – Cap Hex. Hd. L.H.	1
7	323–4	Screw – Cap Hex. Hd.	2
8	32144–21	Screw – Round Hd.	2
9	68–5140	Cap – Steering Wheel	1
10	47–6990	Nut – Steering Wheel	1
11	68–5130	Steering Wheel Assembly (Incl. Ref. #8 & 9)	1
12	3246–3	Screw – Set	1
13	65–6390	Washer – Thrust	1
14	83–0740	Disc – Friction	2
15	83–0730	Spacer – Lockup	1
16	83–0760	Plate – Lockup	1
17	233–48	Knob	1

Ref. No.	Part No.	Description	No. Used
18	83–0700	Handle – Lockup	1
19	325–4	Screw – Cap Hex. Hd.	2
20	47–2890	Bushing – Sleeve	2
21	3274–39	Screw – Cap Hex. Hd.	6
22	3290–277	Nut – Speed	6
23	83–1420	Column – Steering	1
24	58–3953	Steering – Valve Assembly	1
25	83–0810	Cover – Steering Valve	1
26	84–8730	Hose – Hydraulic	3
27	84–8740	Hose – Hydraulic	1
29	237–21	Seal – O–Ring	4
30	340–1	Fitting – Hydraulic Straight (Incl. Ref. #29 & 31)	4
31	237–42	Seal – O–Ring	4
32	83–2510	Decal – Steering Arm	1
33	3274–63	Screw – Hex. Socket Hd.	2
34	3256–26	Washer – Flat	2
35	83–1700	Bushing – Flange	1



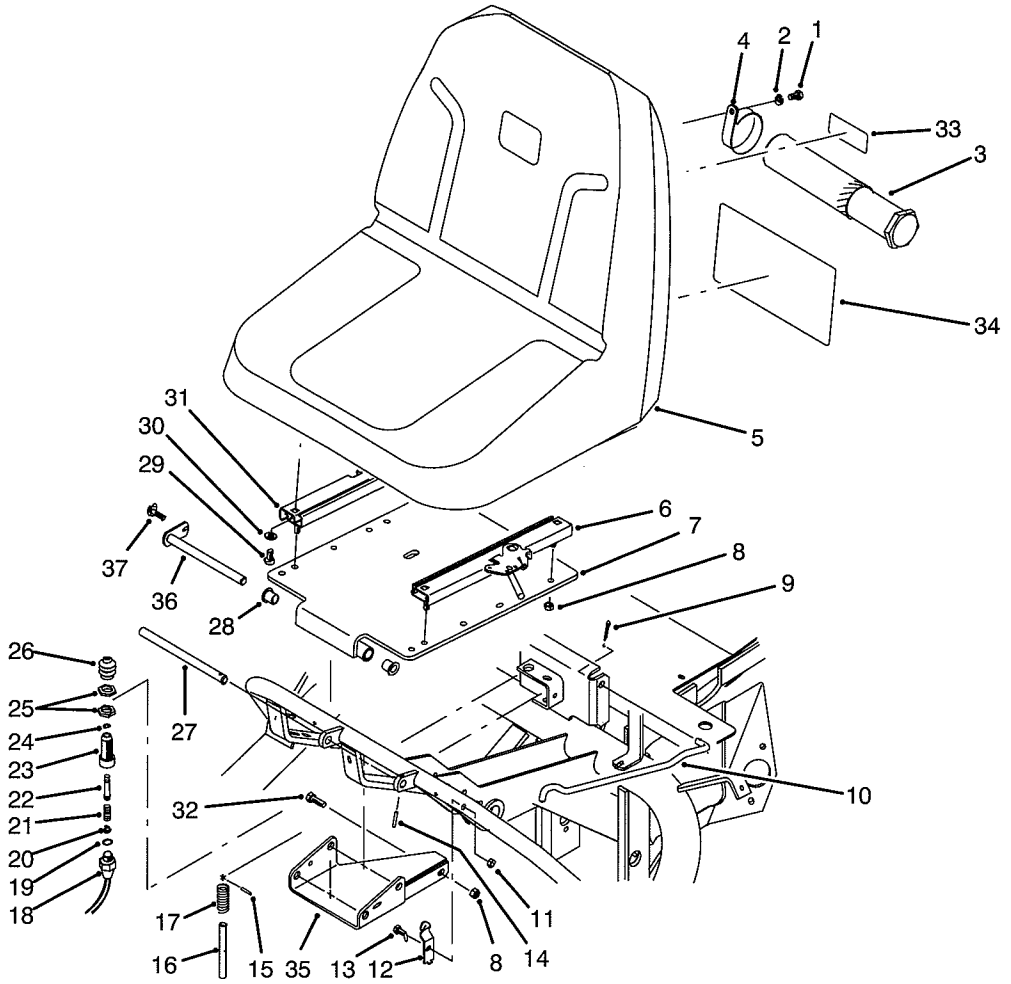
T–1442

POWER STEERING VALVE NO. 58–3953

Ref. No.	Part No.	Description	No. Used
1		Seal – Dust	1
2	52–9230	Ring – Retaining	1
3	52–9240	Bushing – Seal, Gland	1
4		O–Ring	1
5		Seal – Quad Ring	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	83–1900	Plate – Spacer	1
16	70–8250	Drive	1
17	83–1870	Gerotor	1
18	59–6890	Cap – End	1

Ref. No.	Part No.	Description	No. Used
19	52–9350	Screw – Cap	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
*	52–9250	Needle Bearing Kit (Incl. Ref. #8 & 9)	1
*	83–1880	Control Parts Assembly (Incl. Ref. #10–13 & 20)	1
*	49–0170	Seal Kit (Incl. Ref. #1, 4, 5, 14, 23 & 25)	1

*Not Illustrated
†Not Serviced Separately



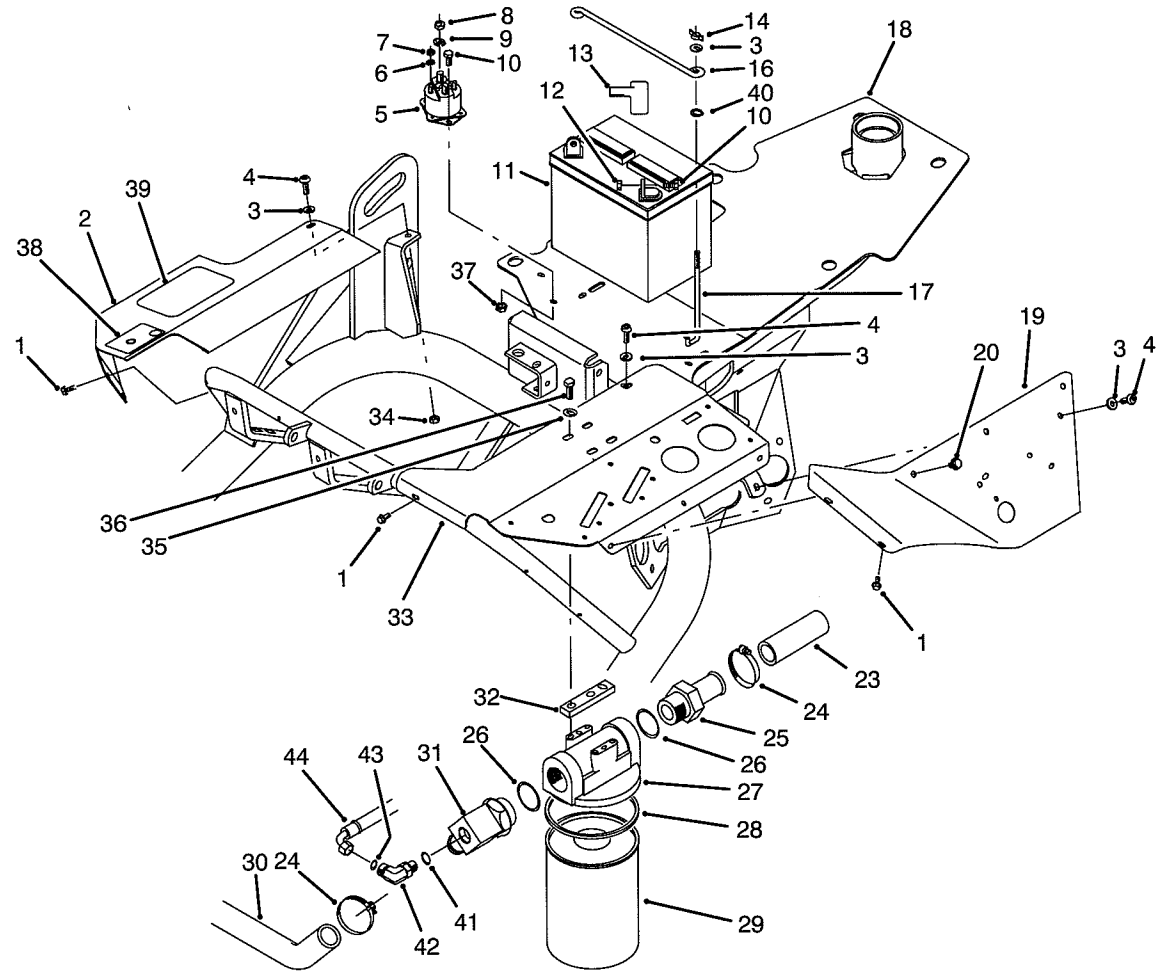
T–1445

SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322–2	Screw – Cap Hex. Hd.	2
2	3253–4	Washer – Lock	2
3	74–0720	Tube – Manual	1
4	2412–133	Clamp – R	2
5	92–1180	Seat Assembly	1
6	51–0790	Adjuster – Seat	1
7	84–8770	Seat Support Assembly (Incl. Ref. #28)	1
8	3296–29	Nut – Lock	5
9	3272–11	Pin – Cotter	1
10	68–5100	Rod – Seat Prop	1
11	3296–42	Nut – Lock	1
12	68–5310	Clip – Seat Rod	1
13	321–3	Screw – Cap Hex. Hd.	1
14	32121–16	Pin – Roll	1
15	3284–3	Pin – Groove	1
16	51–0350	Pin – Seat Spring	1
17	3–6685	Spring – Compression	1
18	72–4320	Switch – Ball	1
19	237–30	Seal – O–Ring	1

Ref. No.	Part No.	Description	No. Used
20	43–8610	Seat – Ball	1
21	43–8600	Spring – Compression	1
22	43–8860	Plunger – Switch	1
23	43–8620	Guide – Switch	1
24	237–7	Seal – O–Ring	1
25	218–461	Nut – Hex.	2
26	43–8870	Boot – Switch	1
27	49–5880	Shaft – Seat Suport	1
28	256–155	Bushing –Flange	2
29	3274–12	Screw – Hex. Socket Hd.	4
30	3256–23	Washer – Flat	4
31	51–0780	Slider – Seat	1
32	322–3	Screw – Cap Hex. Hd.	1
33	84–3180	Decal – Hydraulic Oil	1
34	83–2490	Decal – Service	1
35	84–8800	Bracket	1
36	84–8700	Pivot – Seat	1
37	32144–4	Screw – Thread Forming	1
*	43–9071	Seat Switch Assembly (Incl. Ref. #18–26)	1

*Not Illustrated

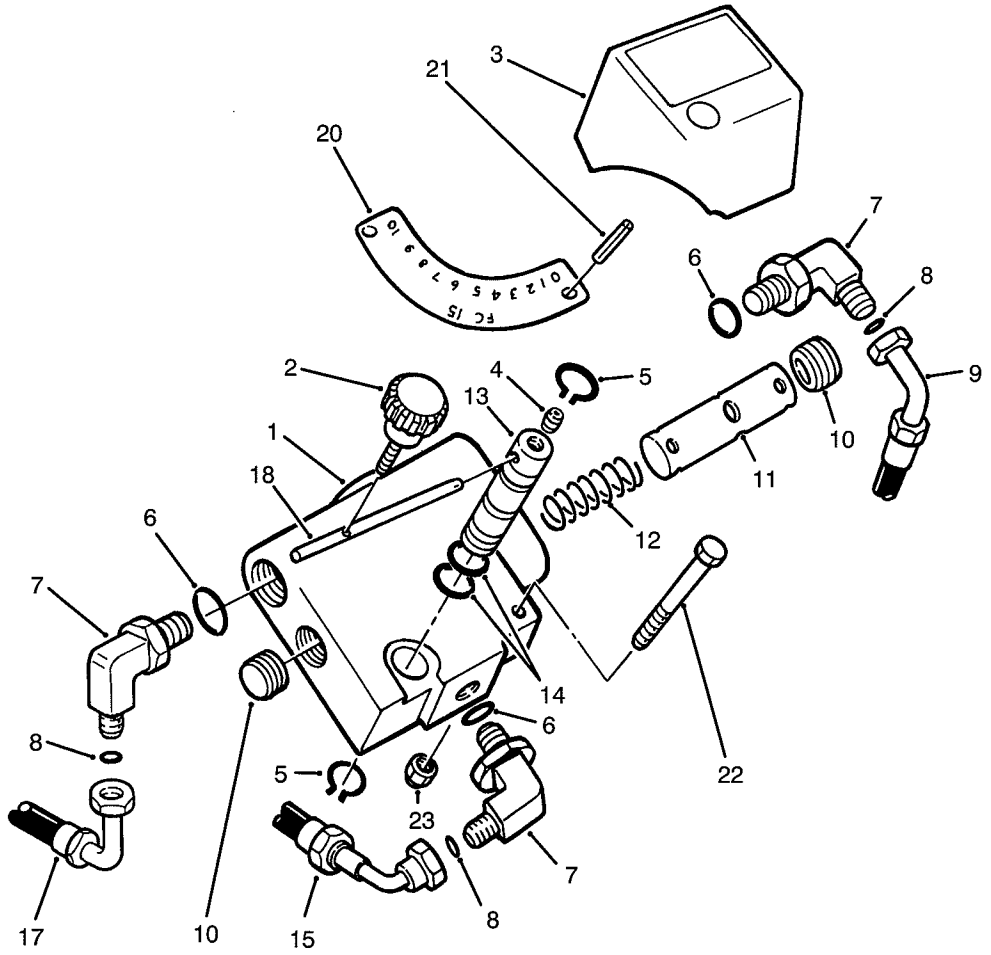


T–1671

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104–76	Screw – Self Tapping	5
2	83–1830	Cover – R.H.	1
3	3256–22	Washer – Flat	5
4	3274–91	Screw – Hex. Socket Hd.	3
5	28–4210	Solenoid – Starter	1
6	3254–1	Washer – Lock	2
7	3219–14	Nut – Hex.	2
8	3218–13	Nut – Jam	2
9	3253–4	Washer – Lock	2
10	321–3	Screw – Cap Hex. Hd.	4
11	28–1400	Battery	1
12	3217–5	Nut – Hex.	2
13	28–8080	Boot Terminal	1
14	32103–12	Nut – Wing	2
16	72–4790	Hold–Down – Battery	1
17	56–7720	Bolt – Battery	2
18	83–0220	Frame Assembly	1
19	83–0840	Fender – L.H.	1
20	46–8560	Screw – Self Taping	3
23	83–1430	Hose – Hydraulic	1
24	2412–34	Clamp – Hose	2
25	353–563	Fitting – Hydraulic Straight (Incl. Ref. #26)	1

Ref. No.	Part No.	Description	No. Used
26	237–101	Seal – O–Ring	2
27	44–5560	Head – Oil Filter	1
28	72–3850	Seal – Filter	1
29	74–3570	Filter – Hydraulic Oil (Incl. Ref. #28)	1
30	68–5880	Hose – Hydraulic	1
31	88–9710	Fitting – Hydraulic 90° (Incl. Ref. #26)	1
32	27–2380	Spacer	2
33	83–0830	Panel – Control Upper	1
34	3296–16	Nut – Lock	3
35	3256–23	Washer – Flat	4
36	322–4	Screw – Cap Hex. Hd.	4
37	32149–2	Nut – Keps	2
38	83–2540	Decal – Traction	1
39	67–1300	Decal – TORO	1
40	237–143	Grommet	2
41	237–80	Seal – O–Ring	1
42	340–105	Fitting – Hydraulic 90° (Incl. Ref. #41 & 43)	1
43	237–30	Seal – O–Ring	1
44	92–1188	Hose – Hydraulic	1



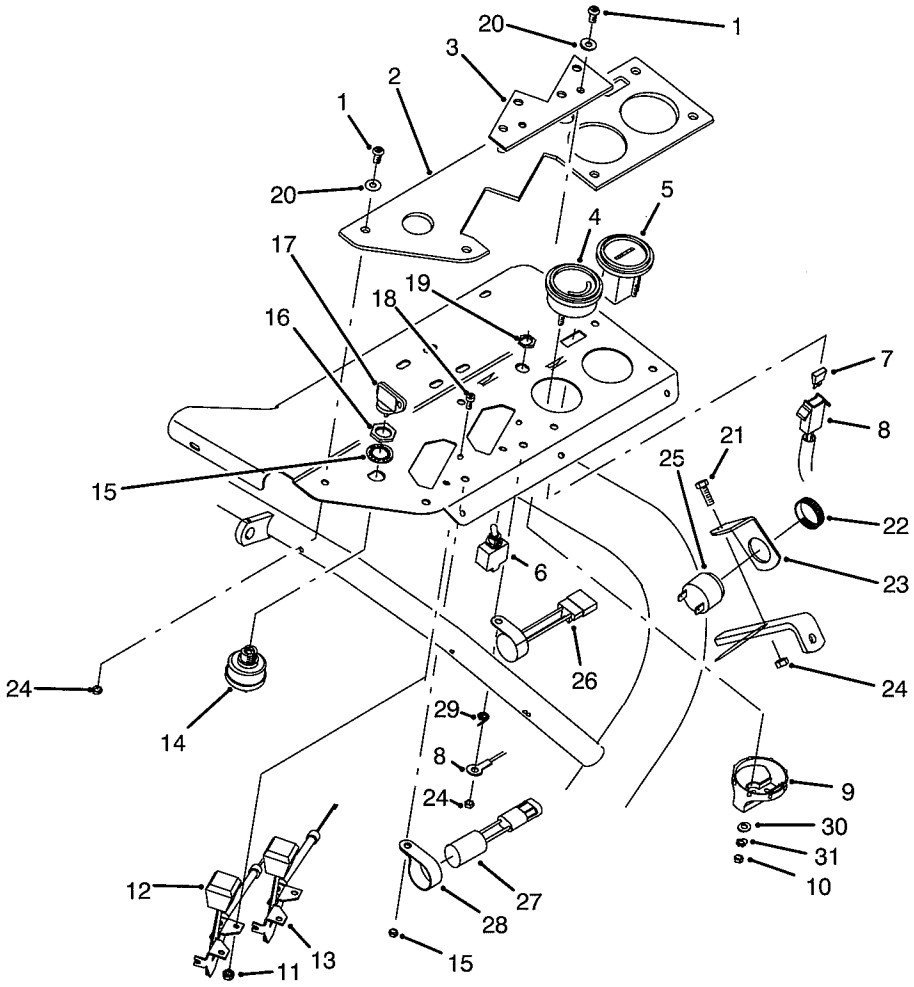
T–1441

VARIABLE TRACTION CONTROL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1		Body–Main	1
2	49–0360	Screw – Thumb	1
3	83–2500	Decal – Traction Control	1
4	3274–42	Screw – Set Hex Socket	1
5	32120–76	Ring – Snap	2
6	237–80	Seal – O–Ring	3
7	340–105	Elbow – 90° Adjustable (Incl. Ref. #6 & 8)	3
8	237–30	Seal – O–Ring	3
9	92–1189	Hose – Hydraulic	1
10	49–0300	Plug Pipe	2
11	49–0370	Spool – Metering	1
12	49–0340	Spring – Metering	1

Ref. No.	Part No.	Description	No. Used
13	66–1660	Spool – Lever Side	1
14	237–54	Seal – O–Ring	2
15	83–2270	Hose – Hydraulic	1
17	92–1188	Hose – Hydraulic	1
18	49–0350	Handle	1
20	49–0320	Plate – Dial	1
21	32121–4	Pin – Roll Slotted	2
22	321–33	Screw– Cap Hex Hd.	2
23	3296–56	Nut – Lock	2
*	3290–378	Tie – Cable	3
*	47–6640	Valve Flow Control (Incl. Ref. #1, 2, 4, 5, 10–14, 18, 20 & 21)	1

*Not Illustrated

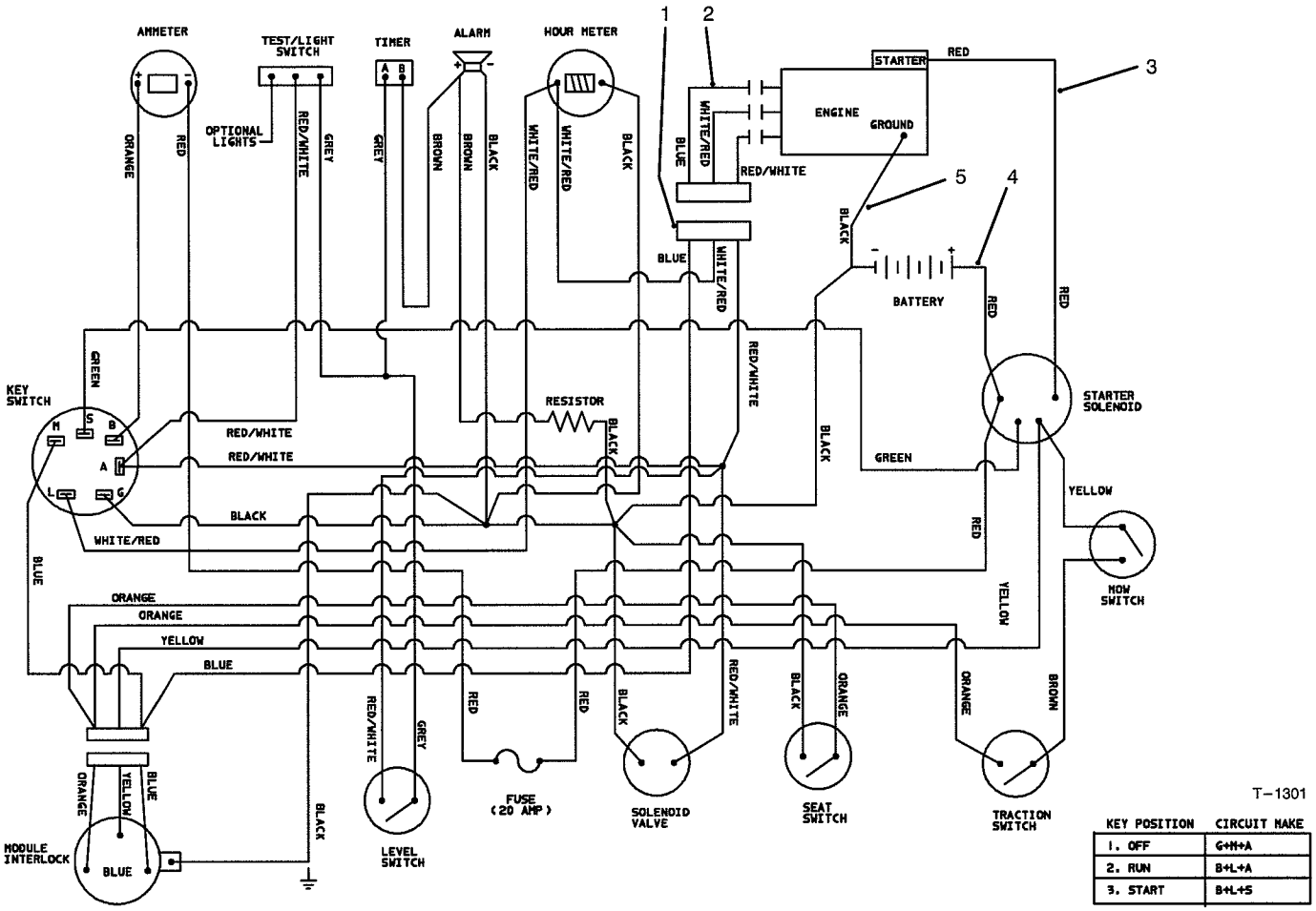


T–1296

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274–69	Screw – Hex. Socket Hd.	8
2	83–2570	Plate – Control Panel	1
3	83–2030	Plate – Filler	1
4	83–0820	Gauge – Ammeter (Incl. Ref. #9, 10, 30 & 31)	1
5	66–2950	Gauge – Hourmeter	1
6	83–1660	Switch Assembly (Incl. Ref. #19)	1
7	218–594	Fuse – 20 Amp	1
8	83–1100	Harness – Wire (Main)	1
9	39–9600	Clamp – Mounting	1
10	3219–14	Nut – Hex.	6
11	3296–27	Nut – Lock	4
12	83–0030	Control – Throttle	1
13	83–0040	Control – Choke	1
14	83–0020	Ignition Switch Assembly (Incl. Ref. #15–16)	1
15	3254–5	Washer – Lock	1

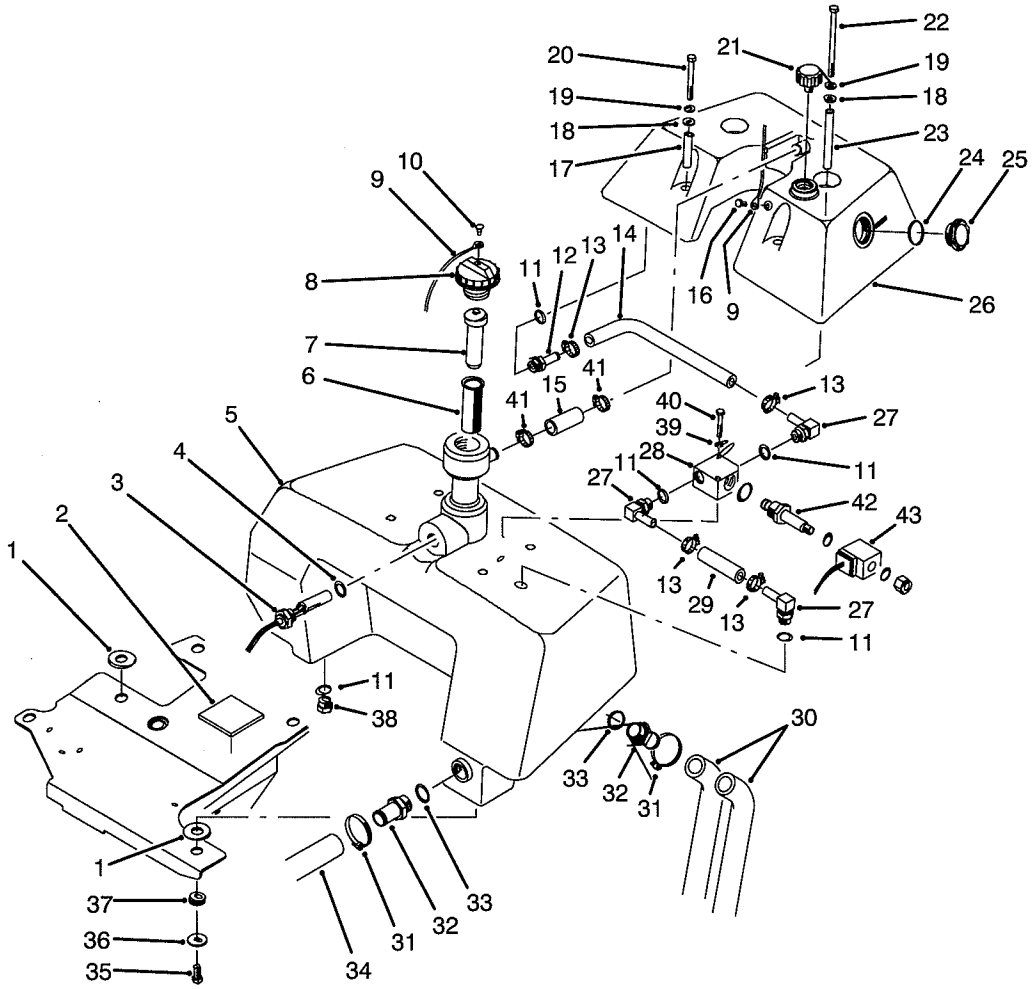
Ref. No.	Part No.	Description	No. Used
16	218–461	Nut – Hex.	1
17	63–8360	Key – Ignition	1
18	3273–26	Screw – Hex. Socket Hd.	4
19		Nut – Hex.	2
20	3256–1	Washer – Flat	8
21	321–4	Screw – Cap Hex. Hd.	1
22		Retainer – Alarm	1
23	83–1530	Bracket – Alarm	1
24	3296–16	Nut – Lock	9
25	80–9330	Audio Alarm Assembly (Incl. Ref. #22)	1
26	28–7890	Module – Interlock	1
27	83–2280	Timer – Delay	1
28	2412–106	Clamp – R	1
29	3255–7	Washer – Lock	1
30	3256–21	Washer – Flat	2
31	3254–1	Washer – Lock	2



ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	83-1100	Harness – Wire (Main)	1
2	83-1110	Harness – Wire (Engine)	1
3	83-1160	Wire – Soleniod-Starter	1

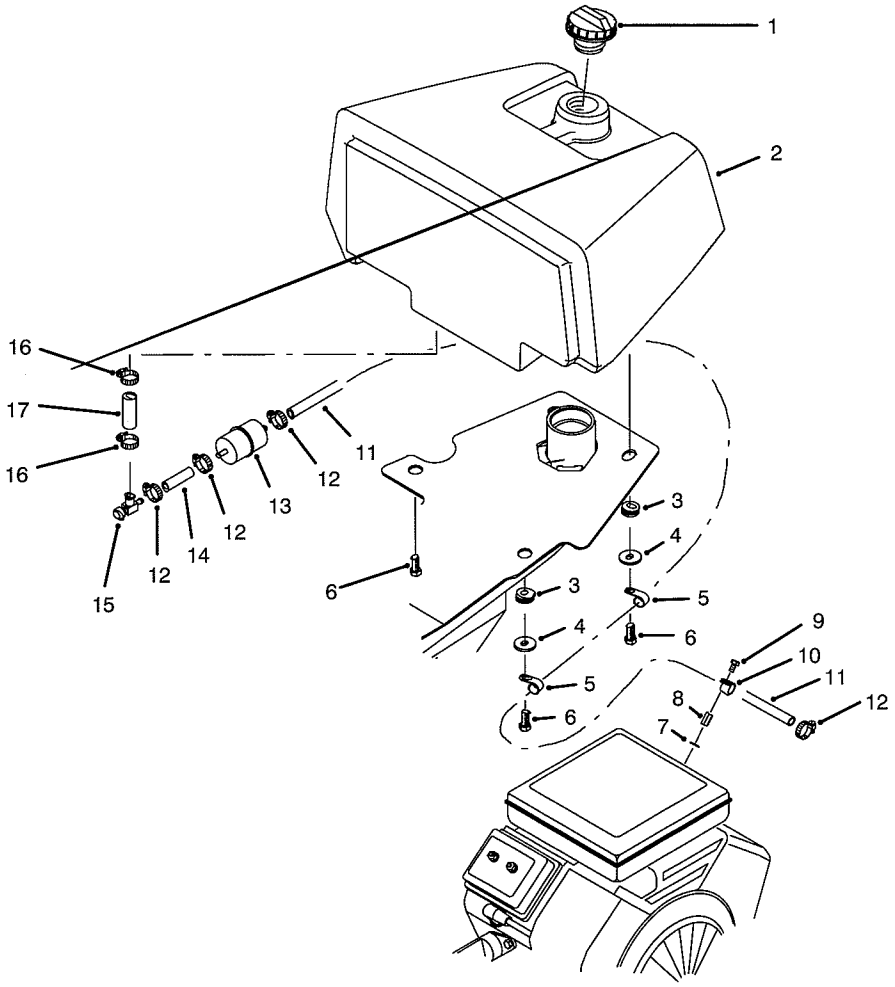
Ref. No.	Part No.	Description	No. Used
4	83-2420	Wire – Solenoid-Battery	1
5	83-1150	Wire – Engine Ground	1



HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83–2400	Spacer – Tank	2
2	83–2390	Pad – Tank	1
3	83–1450	Sensor – Oil Level	1
4	237–80	Seal – O–Ring	1
5	83–0860	Reservoir – Hydraulic	1
6	83–1520	Screen – Filler	1
7	92–4063	Plug – Filler Cap	1
8	70–8640	Hydraulic Reservoir Cap Assy. (Incl. Ref. #9 & 10)	1
9	75–0540	Tether – Cap	1
10	2410–73	Retainer – Tether	1
11	237–79	Seal – O–Ring	5
12	92–1665	Fitting – Hydraulic Straight (Incl. Ref. #11)	1
13	2412–36	Clamp – Hose	4
14	83–2070	Hose – Valve	1
15	83–2090	Hose – Overflow	1
16	321–2	Screw – Cap Hex. Hd.	1
17	83–1550	Spacer – Tank (Short)	2
18	83–1470	Washer – Neoprene	4
19	3256–71	Washer – Flat	4
20	322–14	Screw – Cap Hex. Hd.	2
21	68–6150	Breather	1
22	322–29	Screw – Cap Hex. Hd.	2
23	83–1560	Spacer – Tank (Long)	2

Ref. No.	Part No.	Description	No. Used
24	237–123	Seal – O–Ring	1
25	83–2250	Guage – Sight (Incl. Ref. #24)	1
26	92–1666	Tank – Auxiliary Hydraulic	1
27	354–120	Fitting – Hydraulic 90° (Incl. Ref. #11)	3
28	83–1460	Solenoid Valve Assembly (Incl. Ref. #42 & 43)	1
29	83–2080	Hose – Valve–Tank	1
30	83–0910	Hose – Hydraulic	2
31	2412–34	Clamp – Hose	3
32	83–0870	Fitting – Hydraulic Straight (Incl. Ref. #33)	3
33	237–177	Seal – O–Ring	3
34	83–1430	Hose – Hydraulic	1
35	323–6	Screw – Cap Hex. Hd.	3
36	63–8410	Washer – Flat	3
37	240–11	Grommet	3
38	353–550	Plug – Hydraulic (Incl. Ref. #11)	1
39	3253–3	Washer – Lock	2
40	321–11	Screw – Cap Hex. Hd.	2
41	2412–141	Clamp – Hose	2
42	83–2000	Spool – Valve	1
43	83–2010	Coil – Valve	1



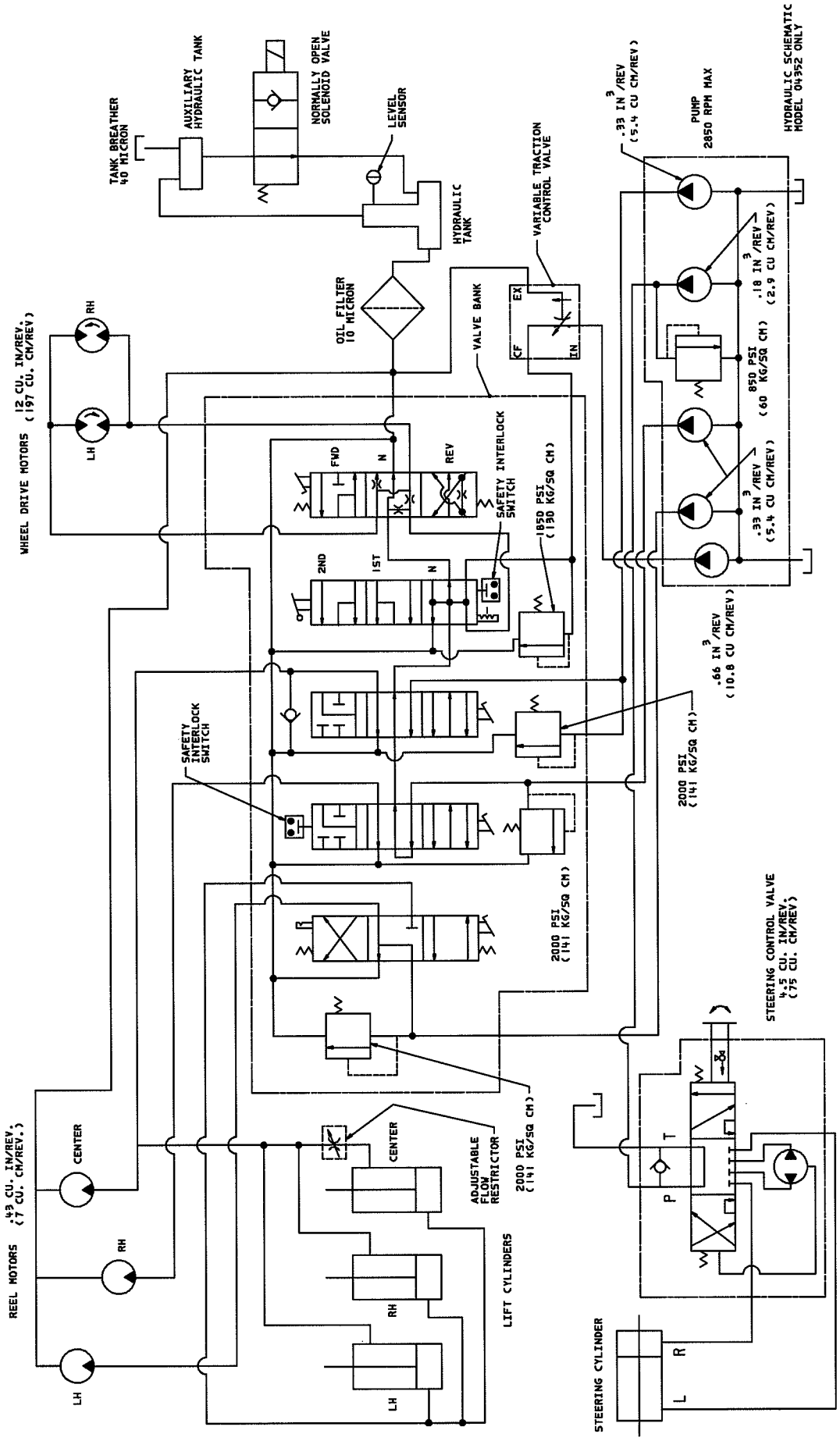
T–1317

FUEL TANK ASSEMBLY

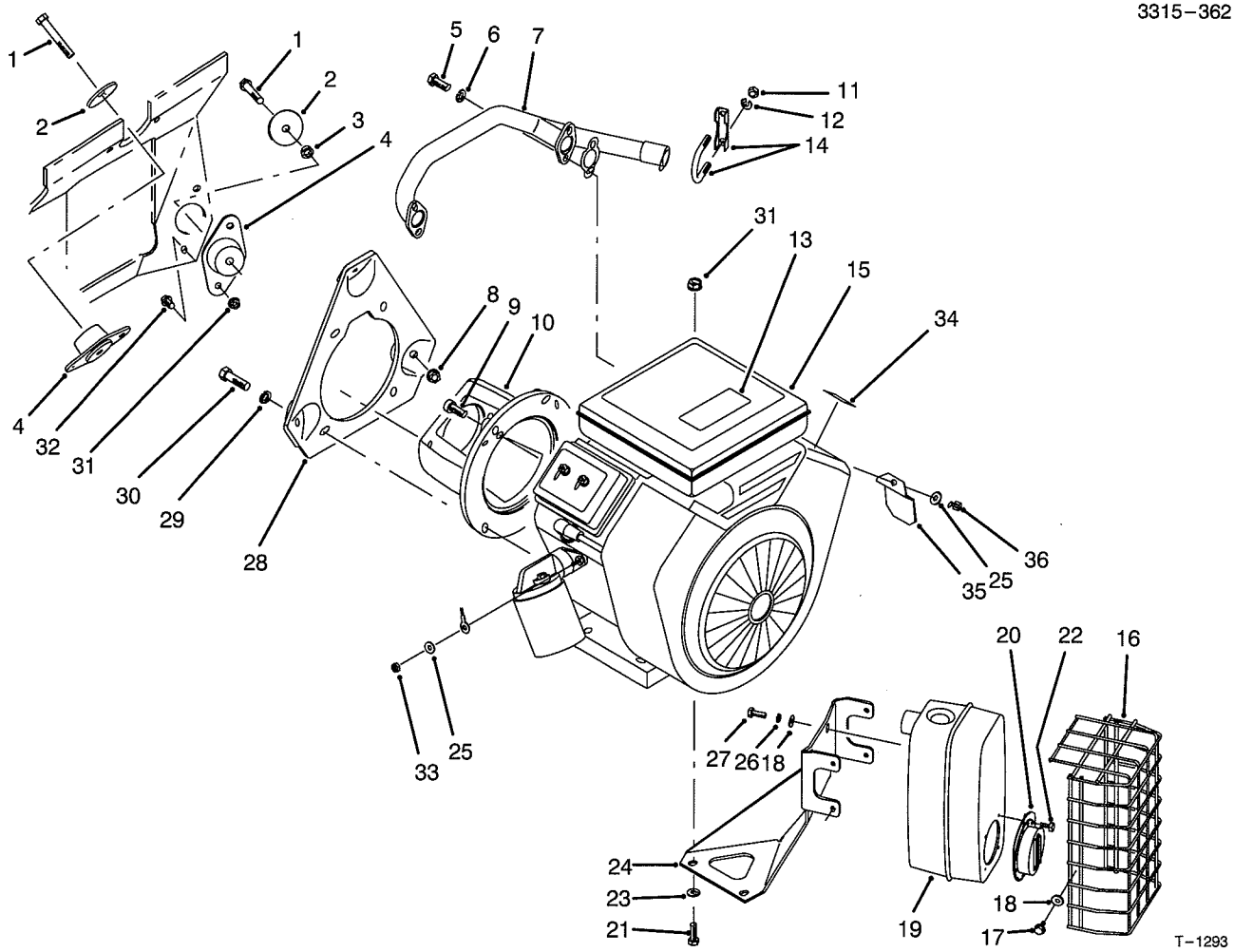
Ref. No.	Part No.	Description	No. Used
1	70–8631	Cap – Fuel	1
2	83–0920	Tank – Fuel	1
3	240–11	Grommet	4
4	63–8410	Washer – Flat	4
5	2412–41	Clamp – R	3
6	323–6	Screw – Cap Hex. Hd.	3
7	3256–63	Washer – Flat	1
8	83–2200	Nut – Special	1
9	48–7610	Screw – Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
10	2412–94	Clamp – R	1
11	83–2041	Hose – Fuel	1
12	2412–108	Clamp – Hose	4
13	83–1320	Filter – Fuel	1
14	83–2040	Hose – Fuel	1
15	83–1390	Fiting – Fuel Shut–Off	1
16	2412–36	Clamp – Hose	2
17	56–2230	Hose – Fuel	1

HYDRAULIC SCHEMATIC



T–1440

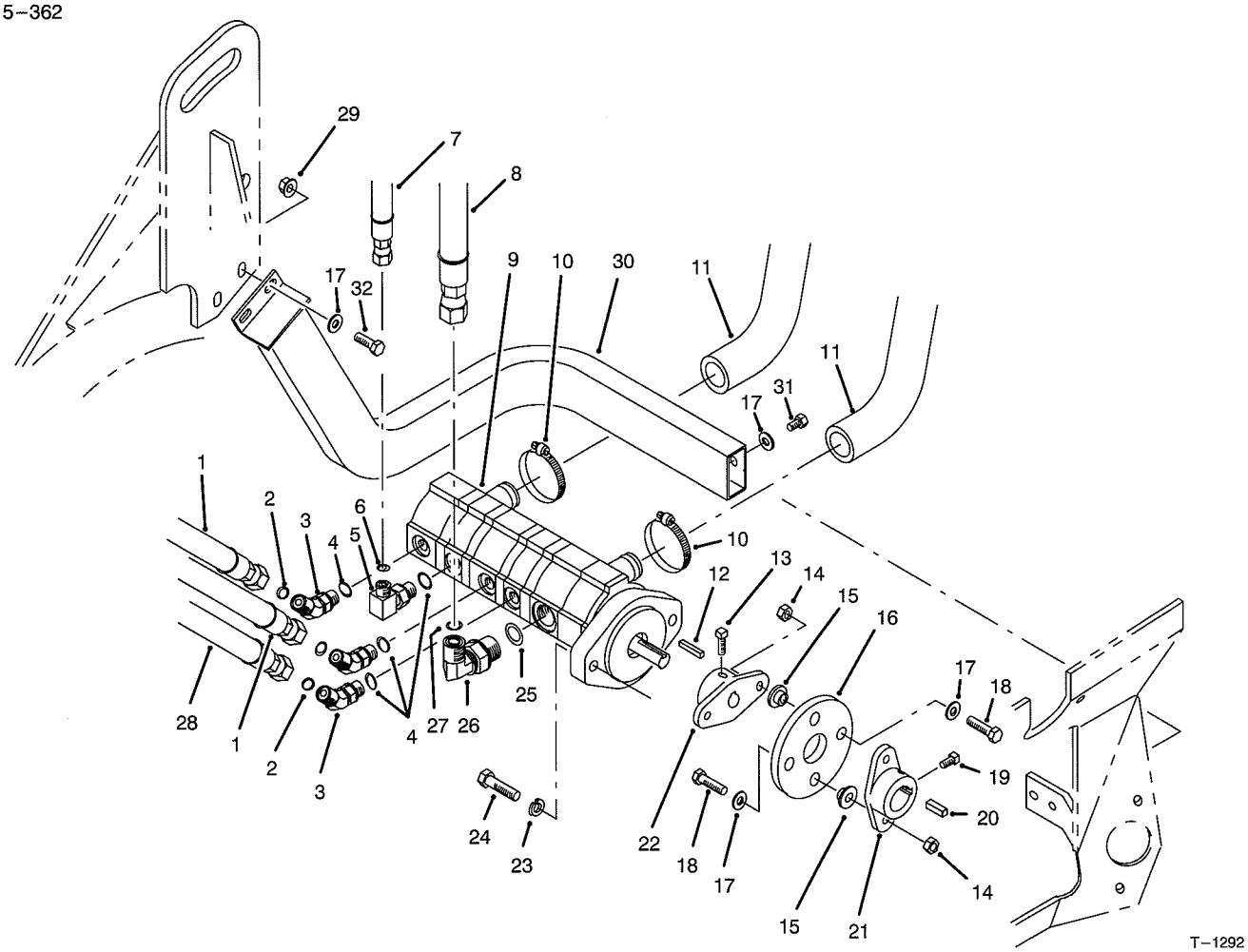


ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323-12	Screw - Cap Hex. Hd.	3
2	83-1040	Washer - Mount	3
3	83-1050	Spacer - Mount	2
4	83-1030	Mount - Engine	3
5		Screw - Cap Hex. Hd.	4
6		Washer - Lock	4
7	83-1080	Pipe - Exhaust	1
8	3290-357	Nut - Flange Lock	3
9	3274-7	Screw - Socket Hd.	2
10	83-1060	Adapter - Pump	1
11		Nut - Hex.	2
12		Washer - Lock	2
13	83-2550	Decal - Engine RPM	1
14	2112-11	Clamp - Muffler (Incl. Ref. #11 & 12)	1
15	83-0010	Engine Assembly (Incl. Ref. #5 & 6)	1
16	83-1400	Shield - Muffler	1
17	32144-4	Screw - Hex. Washer Hd.	4
18	3256-1	Washer - Flat	8

Ref. No.	Part No.	Description	No. Used
19	83-1230	Muffler	1
20	83-2220	Deflector - Exhaust	1
21	322-8	Screw - Cap Hex. Hd.	2
22	83-2230	Screw - Cap Hex. Hd.	4
23	3256-23	Washer - Flat	2
24	83-1630	Bracket - Muffler Support	1
25	43-5930	Washer - Lock	2
26	3253-3	Washer - Lock	4
27	321-4	Screw - Cap Hex. Hd.	4
28	85-8120	Plate - Engine Mount	1
29	3253-6	Washer - Lock	4
30	324-7	Screw - Cap Hex. Hd.	4
31	32128-20	Nut - Flange Lock	8
32	322-3	Screw - Cap Hex. Hd.	6
33	43-2830	Nut - Hex	1
34	83-2560	Decal - Warning Hot	1
35	83-2310	Shield	1
36	48-7620	Screw - Cap Hex. Hd.	1
*	3290-378	Tie - Cable	2
*	250-6	Tie - Cable	2

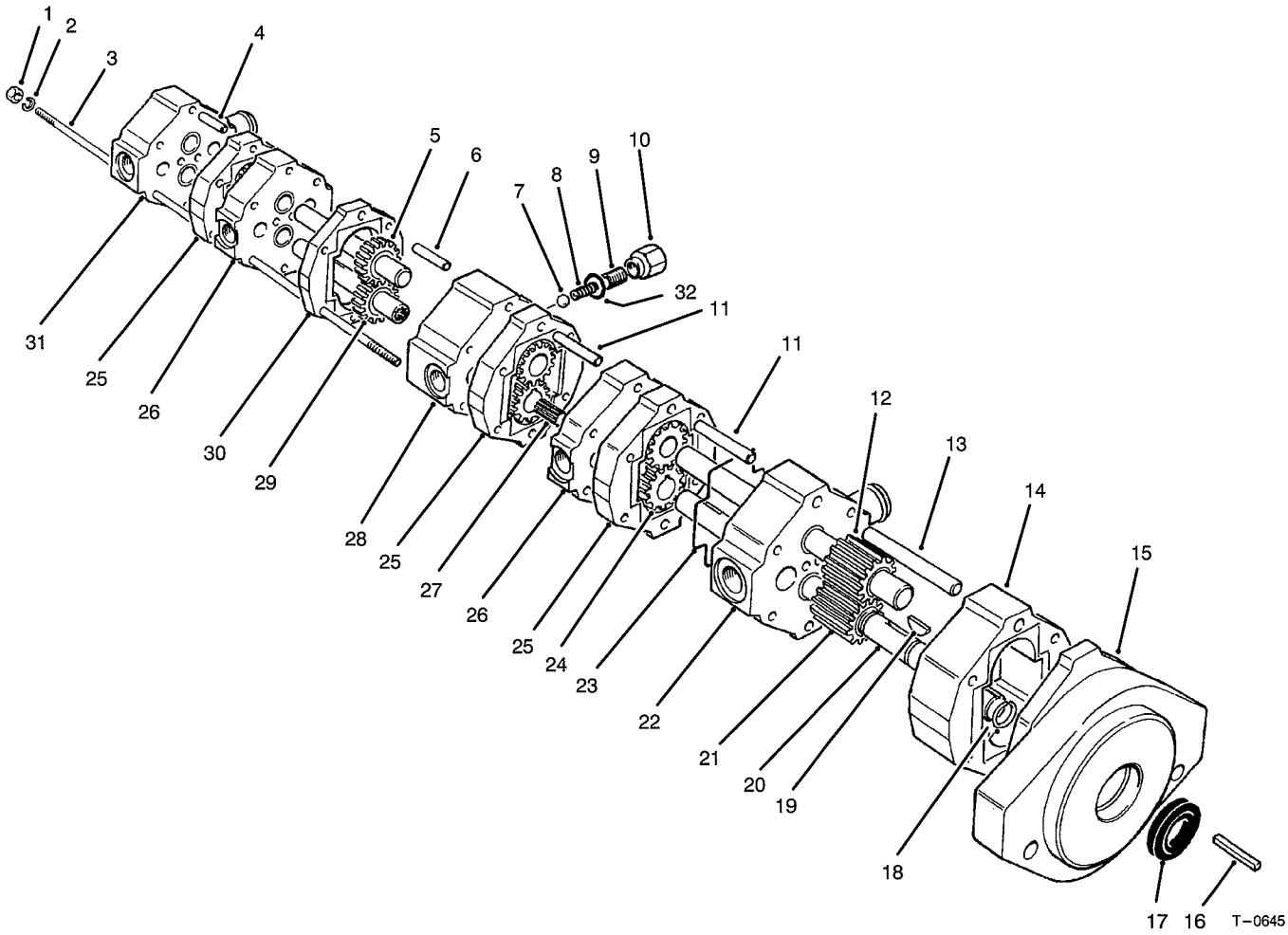
*Not Illustrated



HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	83–1190	Hose – Hydraulic	2
2	237–22	Seal – O–Ring	3
3	340–87	Fitting – Hydraulic 45° (Incl. Ref. #2 & 4)	3
4	237–42	Seal – O–Ring	4
5	340–82	Fitting – Hydraulic 90° (Incl. Ref. #4 & 6)	1
6	237–21	Seal – O–Ring	1
7	84–8730	Hose – Hydraulic	1
8	83–2270	Hose – Hydraulic	1
9	68–4940	Hydraulic Pump Assembly (Incl. Ref. #12)	1
10	2412–34	Clamp – Hose	2
11	83–0910	Hose – Pump	2
12	5–0946	Key – Square	1
13	3241–6	Screw – Set Square Hd.	2
14	3296–29	Nut – Lock	4
15	27–6600	Spacer – Coupling	4

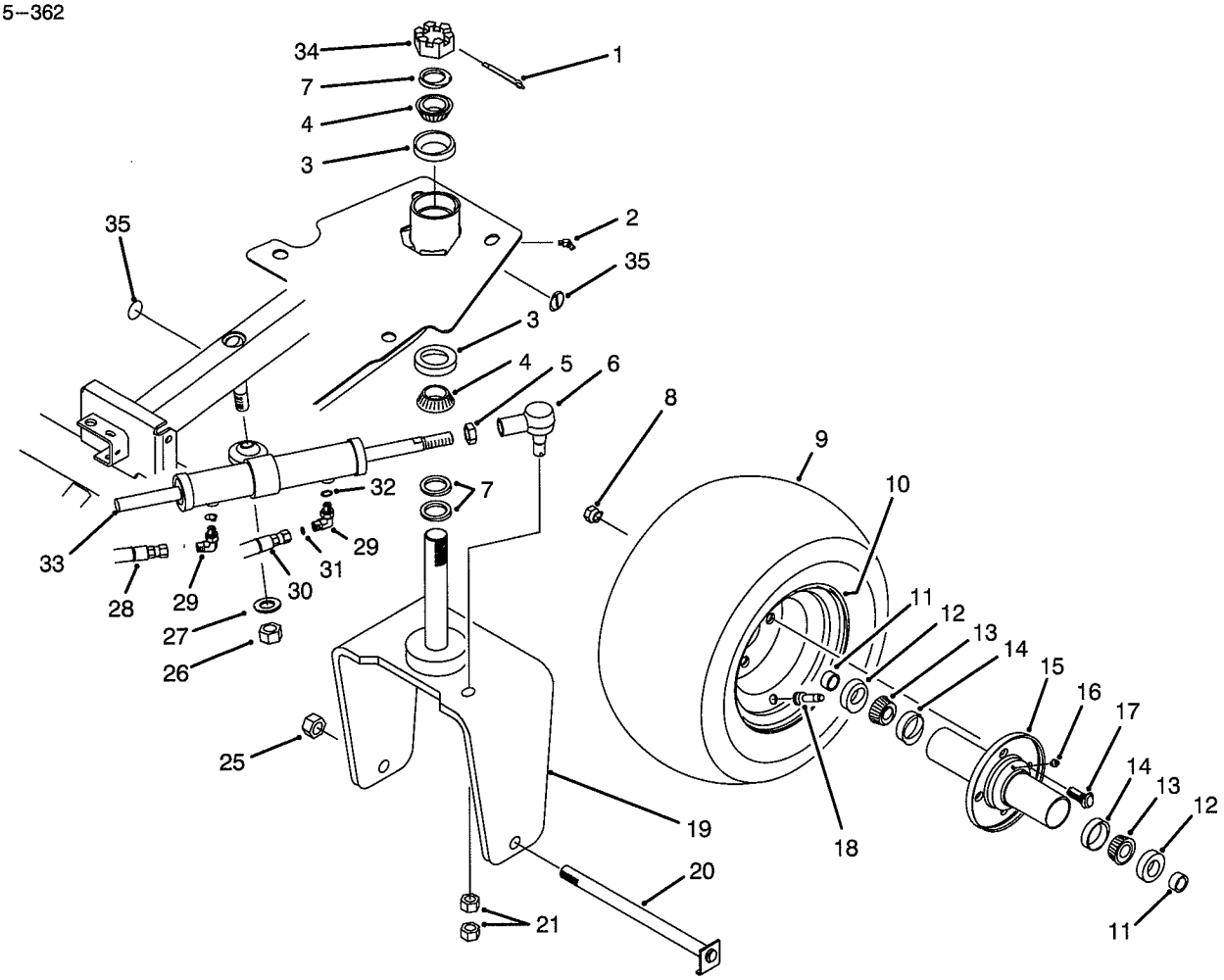
Ref. No.	Part No.	Description	No. Used
16	44–2230	Coupling – Rubber	1
17	3256–23	Washer – Flat	8
18	322–6	Screw – Cap Hex. Hd.	4
19	3241–2	Screw – Set Square Hd.	2
20	10–7070	Key – Square	1
21	27–1960	Hub – Engine	1
22	27–1970	Hub – Pump	1
23	3253–21	Washer – Lock	2
24	323–8	Screw – Cap Hex. Hd.	2
25	237–80	Seal – O–Ring	1
26	340–105	Fitting – Hydraulic 90° (Incl. Ref. #25 & 27)	1
27	237–30	Seal – O–Ring	1
28	83–1170	Hose – Hydraulic	1
29	32128–20	Nut – Flange Lock	2
30	83–1940	Guard – Pump	1
31	322–1	Screw – Cap Hex. Hd.	2
32	322–4	Screw – Cap Hex. Hd.	2



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	Idler 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

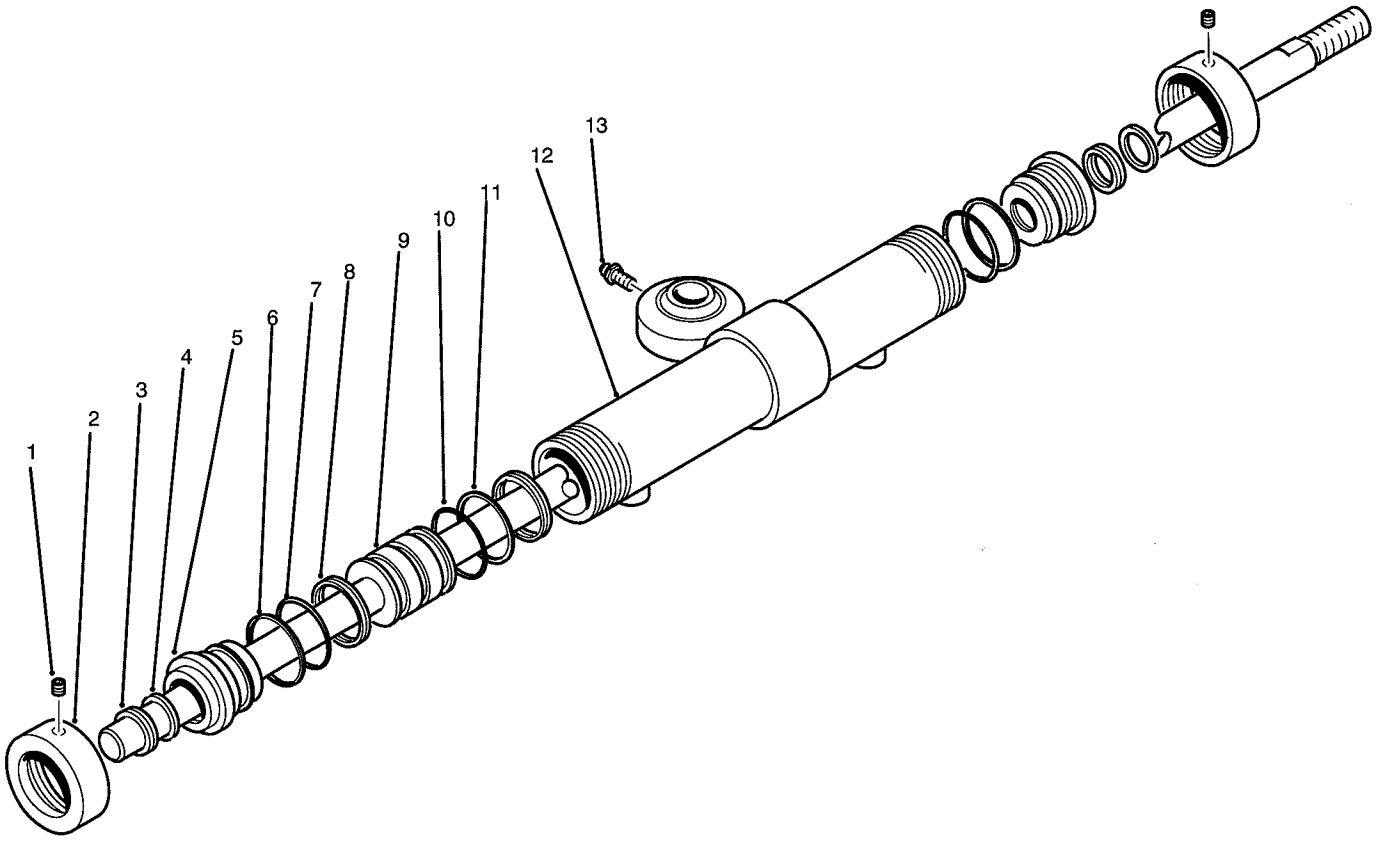
Ref. No.	Part No.	Description	No. Used
18	353–886	Ring – Retaining	2
19	353–884	Key – Woodruff	4
20	354–1	Shaft – Drive	1
21	353–964	Gear – 66B	1
22	354–3	Bearing Plate Assembly	1
23	353–922	Seal – Ring	10
24	353–967	Gear – 33B	6
25	353–969	Plate – Gear 33B	3
26	353–923	Bearing Plate Assembly	2
27	354–5	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	3272–37	Pin – Cotter	1
2	302–11	Fitting – Grease	1
3	254–61	Cup – Bearing	2
4	254–70	Cone – Bearing	2
5	84–5300	Nut – Jam	1
6	83–1640	Rod End Assembly	1
7	18–6320	Washer – Steering	3
8	242–50	Nut – Lug	4
9	28–3680	Tire	1
10	217–60	Rim	1
11	74–3730	Spacer – Hub	2
12	253–111	Seal – Shaft	2
13	254–78	Cone – Bearing	2
14	254–79	Cup – Bearing	2
15	75–9440	Hub – Wheel	1
16	302–55	Fitting – Grease	1
17	10–6830	Stud – Drive	4

Ref. No.	Part No.	Description	No. Used
18	232–24	Valve Stem w/Cap	1
19	83–0930	Fork – Castor	1
20	5–3934	Bolt – Castor	1
21	3220–6	Nut – Jam	2
25	3296–67	Nut – Lock	1
26	3217–12	Nut – Lock	1
27	3256–28	Washer – Flat	1
28	84–8730	Hose – Hydraulic	1
29	340–132	Fitting – Hydraulic 90° (Incl. Ref. #31 & 32)	2
30	84–8740	Hose – Hydraulic	1
31	237–21	Seal – O–Ring	2
32	237–78	Seal – O–Ring	2
33	83–2330	Hydraulic Cylinder Assy.	1
34	32136–9	Nut – Hex. Slotted	1
35	58–6520	Decal – Grease	2



T–1313

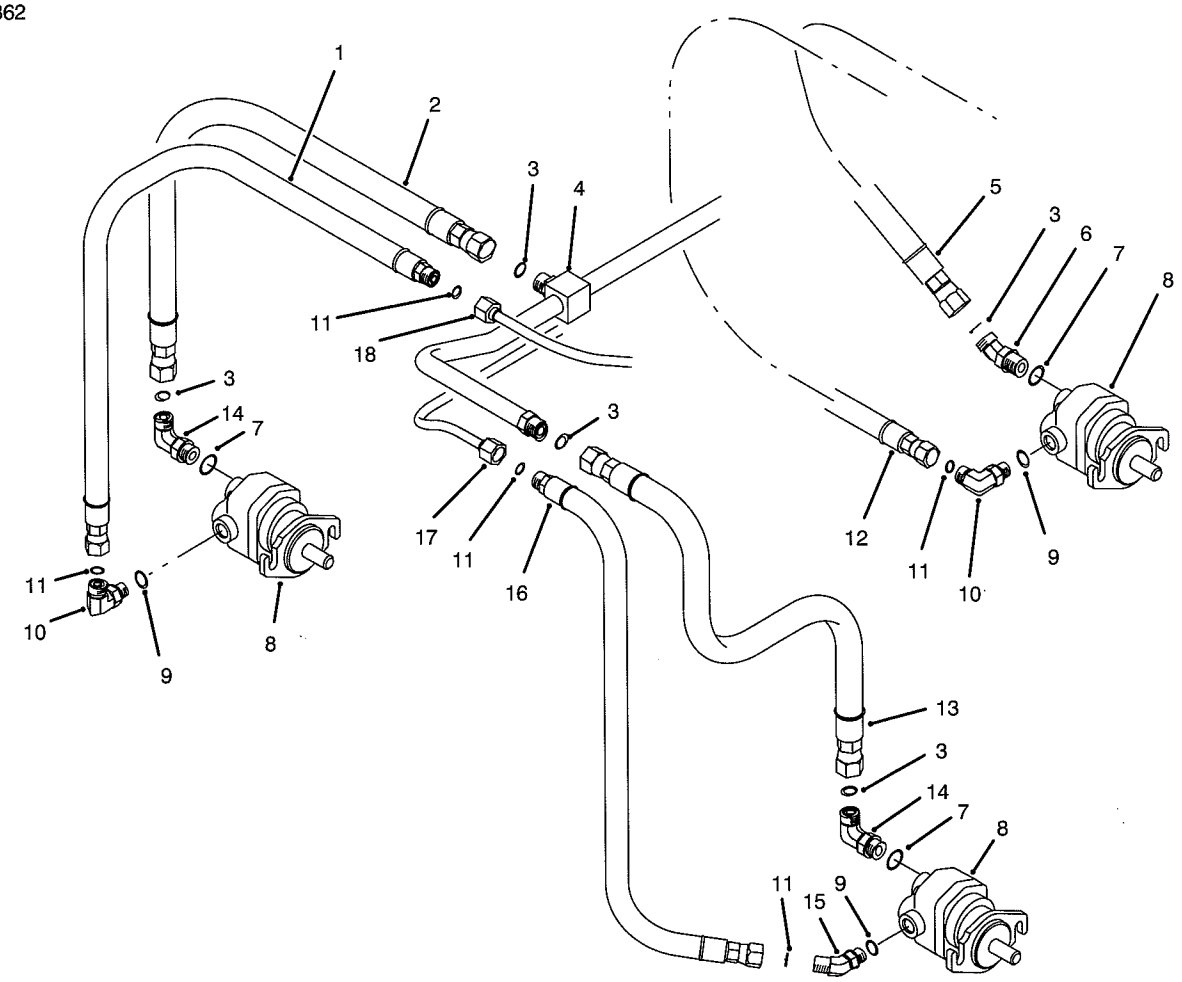
HYDRAULIC CYLINDER ASSEMBLY NO. 83–2330

Ref. No.	Part No.	Description	No. Used
1	3245–1	Screw – Set, Hex. Soc. Hd.	2
2	83–2340	Cap – Threaded	2
3		Wiper – Rod	2
4		U–Cup – Double Lip	2
5	83–2350	Cap – Head, Thread	2
6		Ring – Back–Up	2
7		O–Ring	2
8		Ring – Wear	2
9	83–2360	Assembly – Rod	1

Ref. No.	Part No.	Description	No. Used
10		O–Ring	1
11		Ring – Piston, Urithane	1
12	83–2370	Assembly – Barrel	1
13	302–5	Fitting – Grease	1
*	83–2380	Kit – Seal Repair (Incl. Ref. #1–7)	1

7

*Not Illustrated



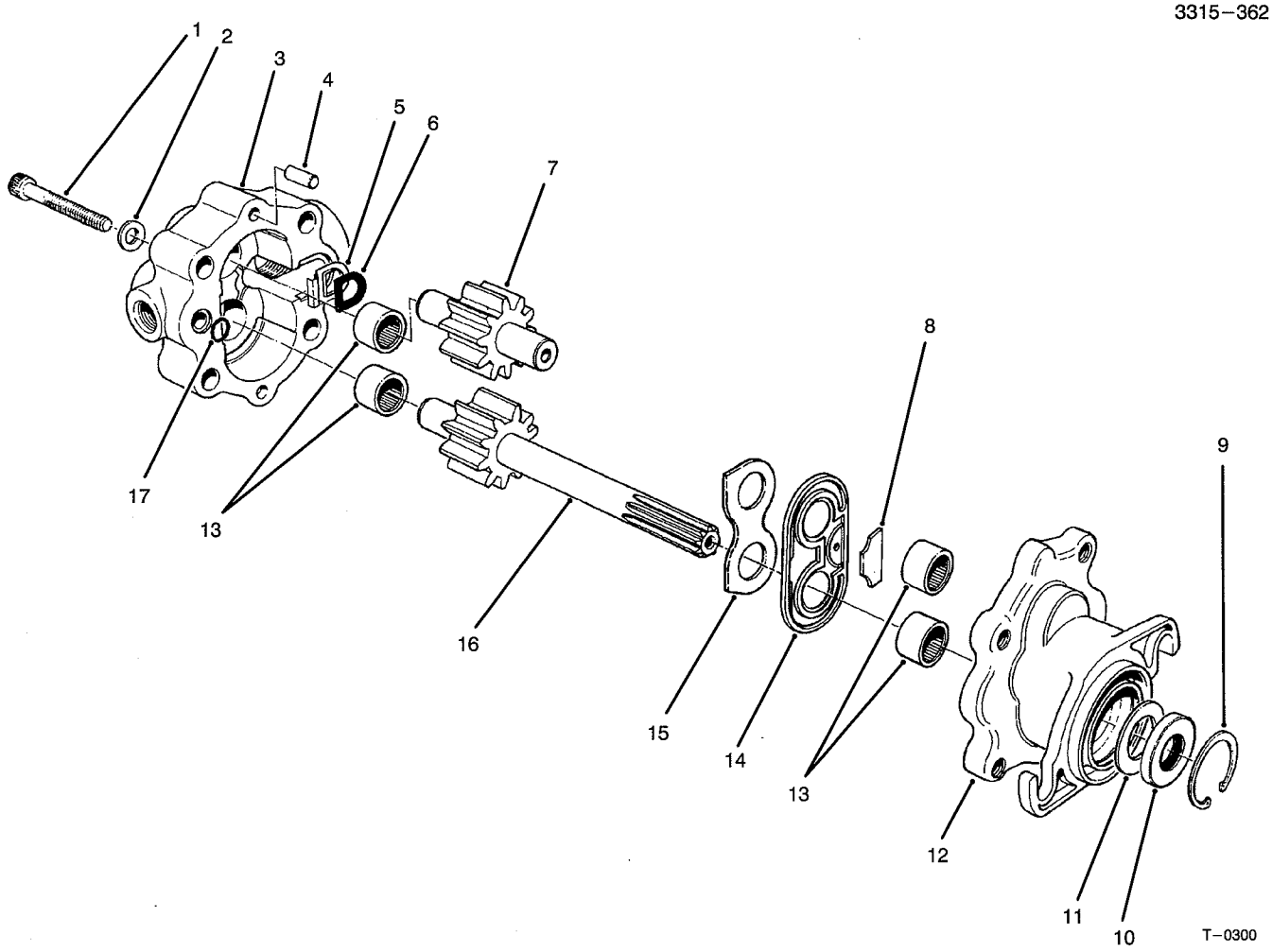
T–1297

REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63–3810	Hose – Hydraulic	1
2	63–3820	Hose – Hydraulic	1
3	237–30	Seal – O–Ring	5
4	63–4040	Hydraulic Tube Assembly (Incl. Ref. #3)	1
5	63–3840	Hose – Hydraulic	1
6	340–101	Fitting – Hydraulic 45° (Incl. Ref. #3 & 7)	1
7	237–79	Seal – O–Ring	3
8	70–9800	Reel Motor Assembly	3
9	237–42	Seal – O–Ring	3
10	340–77	Fitting – Hydraulic 90° (Incl. Ref. #9 & 11)	2

Ref. No.	Part No.	Description	No. Used
11	237–22	Seal – O–Ring	5
12	74–3830	Hose – Hydraulic	1
13	63–3830	Hose – Hydraulic	1
14	340–98	Fitting – Hydraulic 90° (Incl. Ref. #3 & 7)	2
15	340–87	Fitting – Hydraulic 45° (Incl. Ref. #9 & 11)	1
16	63–3870	Hose – Hydraulic	1
17	63–4020	Tube – Hydraulic	1
18	63–4030	Tube – Hydraulic	1
*	3290–379	Tie – Cable	3
*	3290–378	Tie – Cable	15

*Not Illustrated



REEL MOTOR NO. 70–9800

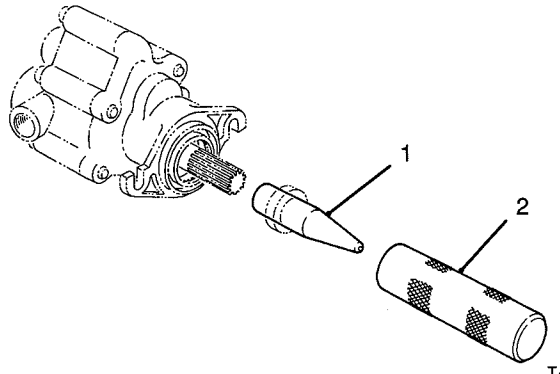
Ref. No.	Part No.	Description	No. Used
1	353–601	Screw – Hex Socket Hd.	4
2	353–600	Washer	4
3	353–588	Cover – Motor	1
4	353–599	Pin – Dowel	2
5	353–597	Bridging – Insert	1
6	353–598	Gasket – Insert	1
7	353–593	Idler Gear Assembly	1
8	353–591	Block – Anti–Extrusion	1
9	32151–41	Ring – Retaining	1
10		Seal – Shaft	1
11		Spacer	1
12	353–777	Body – Motor (Incl. Ref. #13)	1

Ref. No.	Part No.	Description	No. Used
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

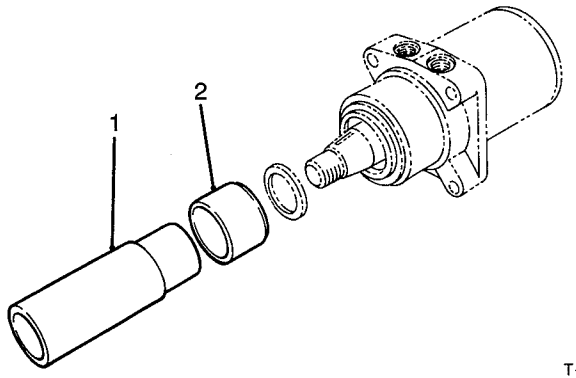
SPECIAL TOOLS

REEL MOTOR SEAL INSTALLATION TOOLS



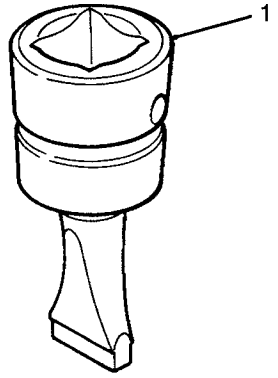
Ref. No.	Part No.	Description	No. Used
1	TOR491430	Protector – Seal	1
2	TOR491450	Installer – Seal	1

MOTOR SEAL INSTALLATION TOOL NO. TOR192660



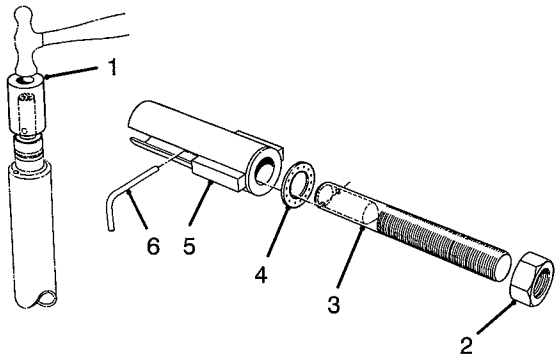
Ref. No.	Part No.	Description	No. Used
1		Driver– Seal	1
2		Holder – Seal	1

BED KNIFE SCREW TOOL NO. TOR510880



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

BEARING REPLACEMENT TOOL KIT NO. TOR238900

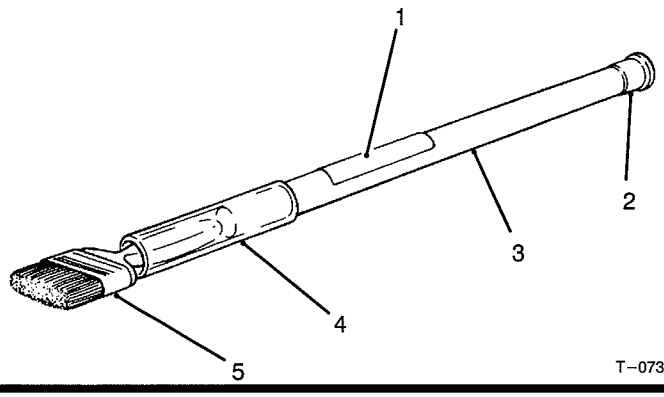


Ref. No.	Part No.	Description	No. Used
1	23–8880	Driver – Bearing	2
2	3219–18	Nut – Hex.	1
3	23–8840	Puller – Bolt	1
4	22–6090	Washer – Thrust	1
5	23–8850	Tube – Support	1
6	23–8860	Pin – Bearing Rplcmnt.	1

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

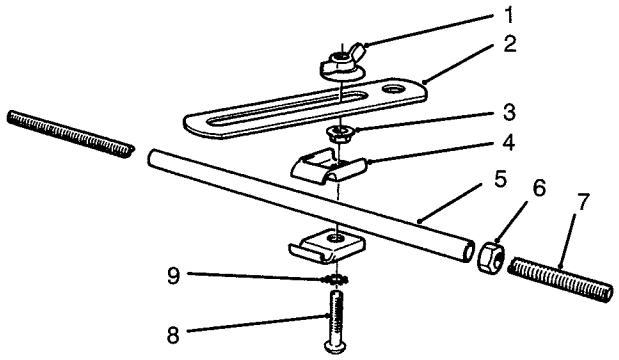
SPECIAL TOOLS (Continued)

BACKLAPPING BRUSH ASSEMBLY NO. 29–9100



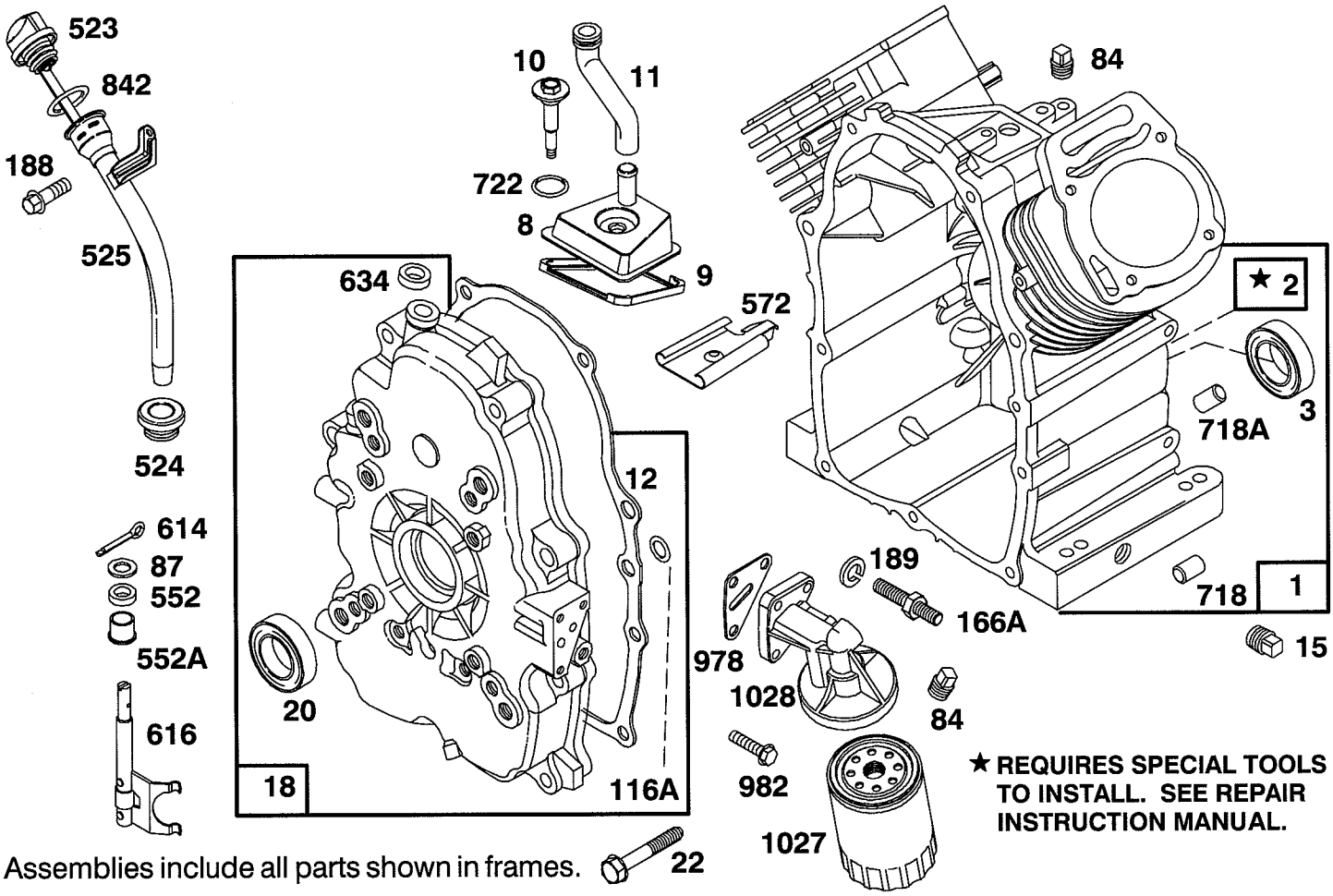
Ref. No.	Part No.	Description	No. Used
1	12–9140	Decal	1
2	2410–18	Plug	1
3	29–9080	Handle	1
4	29–9090	Hose – Handle	1
5	36–4310	Brush	1

ALIGNMENT TOOL NO. TOR200120



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 Hd.	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



Assemblies include all parts shown in frames.

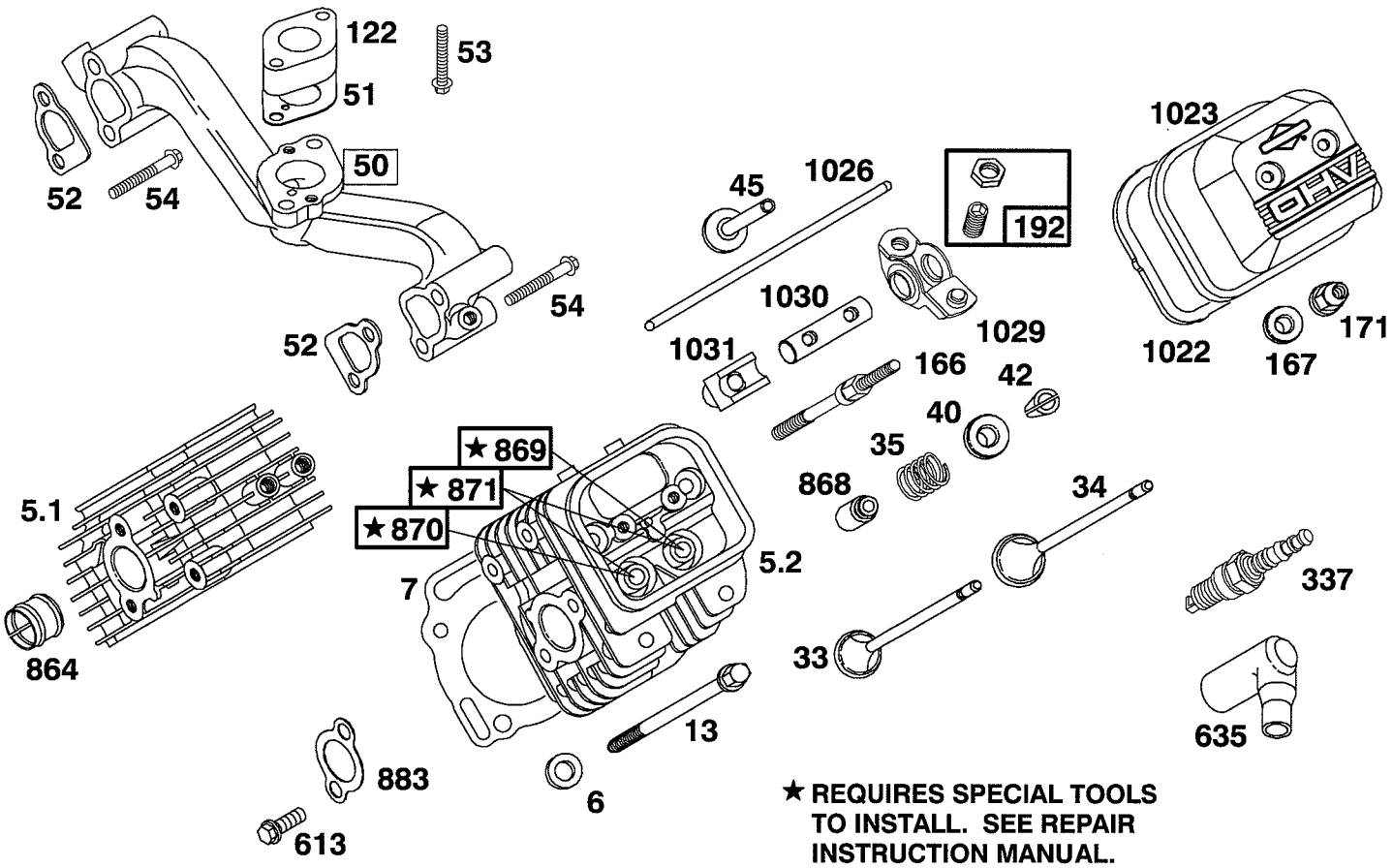
★ **REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.**

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
1	807521	Cylinder Assembly	
2	805107	Bearing – Cylinder	
3	805101	Seal – Oil	
8	807795	Breather Assembly	
*9	805379	Gasket – Breather	
10	805751	Screw – Hex.Washer Head	
11	805362	Tube – Breather	
*12	805112	Gasket – Crankcase Cover	
15	805048	Plug – Oil Drain	
18	807628	Cover Assembly – Crankcase	
20	805049	Seal – Oil	
22	805017	Screw – Crankcase Cover	
84	805059	Plug – Pipe	
87	805054	Seal – Governor Shaft	
*116A	805198	O–Ring (Crankcase Cover)	
166A	805073	Stud – Oil Filter Adapter	
188	805247	Screw – Hex. Head	
189	805449	Lockwasher	

Ref. No.	Part No.	Description	No. Used
523	807585	Dipstick	
524	805259	Seal – Filler Tube	
525	807584	Tube – Oil Filler	
552	805412	Bushing – Governor Shaft	
552A	805413	Bushing – Governor Shaft	
572	805197	Baffle – Breather	
614	805417	Pin – Cotter	
616	807596	Fork – Governor	
634	805416	Washer – Governor Shaft	
718	805103	Dowel – Crankcase	
718A	805102	Dowel – Cylinder Head	
*722	805483	Seal – Breather Screw	
842	805386	O–Ring	
*978	805250	Gasket – Oil Filter Adapter	
982	805030	Screw	
1027	491056	Filter – Oil	
1028	805292	Adapter – Oil Filter	
1029	807557	Arm – Rocker	

*Included in Gasket Set – Part No. 807640.



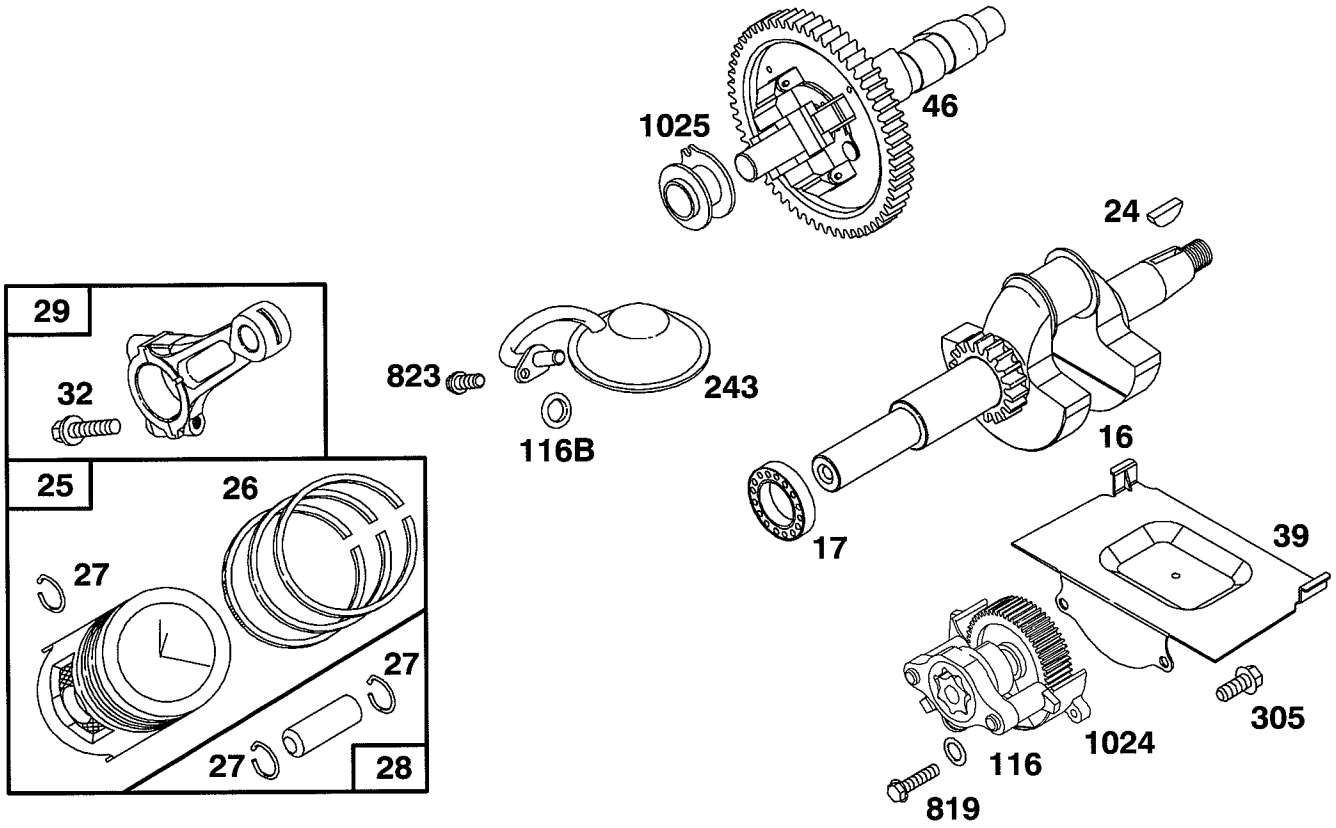
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
5.1	807508	Head – Cylinder (Cyl. #1)	
5.2	807510	Head – Cylinder (Cyl. #2)	
*6	805193	Washer – Cylinder Head	
†7	805111	Gasket – Cylinder Head	
13	805097	Screw – Cylinder Head	
33	805089	Valve – Exhaust	
34	805090	Valve – Intake	
35	805078	Spring – Valve	
40	805092	Retainer – Valve Spring	
42	805161	Retainer – Valve	
45	805354	Tappet – Valve	
50	805409	Manifold – Intake	
*51	805264	Gasket – Carburetor Mtg.	
*52	805023	Gasket – Intake Manifold	
53	805466	Screw	
54	805006	Screw	
122	805328	Spacer – Carburetor	
166	805343	Stud – Rocker Arm	
†167	805420	Washer – Valve Cover	
*171	805019	Nut – Nylock	

Ref. No.	Part No.	Description	No. Used
192	807623	Screw – Valve Adjustment (Incl. Jam Nut)	
337	491055	Plug – Spark	
613	805158	Screw	
635	805529	Elbow – Spark Plug	
864	805083	Liner – Exhaust Port	
868	805094	Seal – Valve Guide	
869	805085	Seat – Intake Valve	
870	805086	Seat – Exhaust Valve	
871	805084	Guide – Valve	
*883	805024	Gasket – Exhaust Manifold	
†1022	805028	Gasket – Valve Cover	
1023	805100	Cover – Valve **Note:** 807665 Cover – Valve Used on Cylinder #1.	
1026	805352	Rod – Push **Note:** 805617 Rod – Push Used on Exhaust Side Only.	
1029	807557	Arm – Rocker	
1030	805342	Shaft – Rocker Arm	
1031	805341	Support – Rocker Arm	

*Included in Gasket Set – Part No. 807640.
†Included in Valve Overhaul Kit – Part No. 807668.



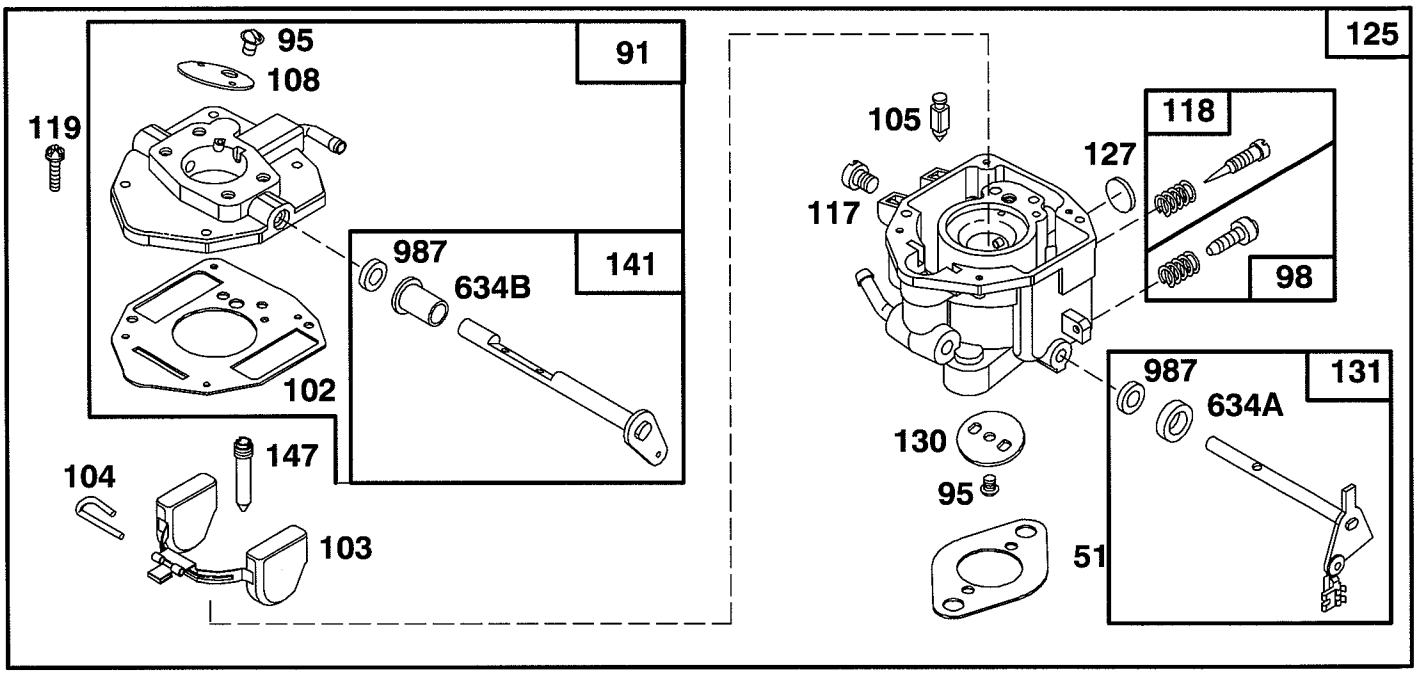
Assemblies include all parts shown in frames.

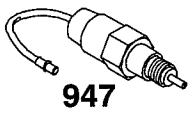
ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

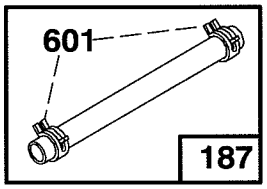
Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft **Note:** 807625 Thrust Washer	
17	805213	Bearing – Ball	
24	805016	Key – Flywheel	
25	807619	Piston Assembly (Standard)	
	807807	Piston Assembly .010 O.S.	
	807809	Piston Assembly .020 O.S.	
	807811	Piston Assembly .030 O.S.	
26	807620	Ring Set – Piston (Standard)	
	807808	Ring Set – Piston .010 O.S.	
	807810	Ring Set – Piston .020 O.S.	
	807812	Ring Set – Piston .030 O.S.	
27	805099	Lock – Piston Pin	

Ref. No.	Part No.	Description	No. Used
28	807621	Piston Pin Assembly	
29	807622	Connecting Rod Assembly	
32	805395	Screw – Connecting Rod	
39	805300	Plate – Windage	
46	807542	Gear – Cam	
*116	805058	O–Ring (Oil Pump)	
*116B	805316	O–Ring (Pick – Up Tube)	
243	807598	Screen – Oil Pump Pick-Up	
305	805406	Screw	
819	805057	Screw	
823	805317	Screw – Mounting	
1024	807644	Oil Pump Assembly	
1025	805313	Slider – Governor	

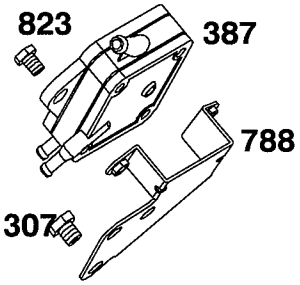
*Included in Gasket Set – Part No. 807640.











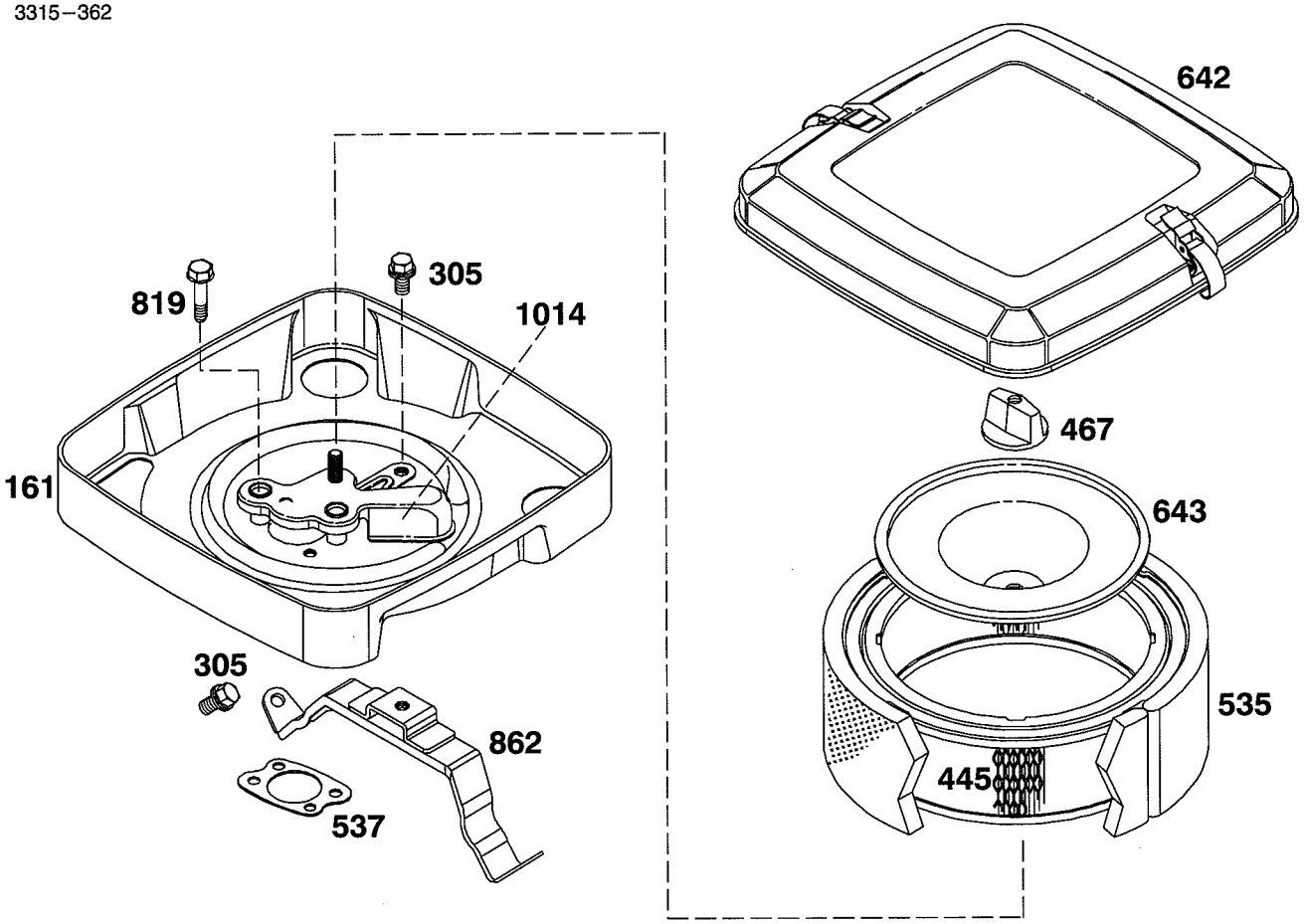
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
*51	805264	Gasket – Carburetor Mtg.	
87	805054	Seal – Governor Shaft	
91	807919	Body – Upper Carburetor	
95	805538	Screw – Valve Mtg.	
98	807718	Screw – Throttle Adj.	
*102	805541	Gasket – Intake Elbow	
103	805546	Float Assembly	
*104	805545	Pin – Float Hinge	
*105	805547	Valve – Fuel Inlet	
108	805539	Valve – Choke	
*117	805548	Jet – Main	
*118	807719	Valve – Idle Adjusting Needle	
119	805540	Screw – Upper Body Mtg.	
125	807918	Carburetor Assembly	
*127	805559	Plug – Welch	

Ref. No.	Part No.	Description	No. Used
130	805554	Valve – Throttle	
131	807720	Shaft – Throttle	
141	807722	Shaft – Choke	
*147	805553	Jet – Slow Speed	
187	393815	Hose – Fuel (Cut to Suit)	
240	394358	Filter – Fuel	
307	805025	Screw	
387	491922	Pump – Fuel	
601	93053	Clamp – Hose	
*634A	805557	Collar – Throttle	
*634B	805543	Collar – Choke	
788	807685	Bracket – Fuel Pump	
823	805317	Screw – Mounting	
947	807664	Solenoid	
*987	805544	Seal – Shaft	

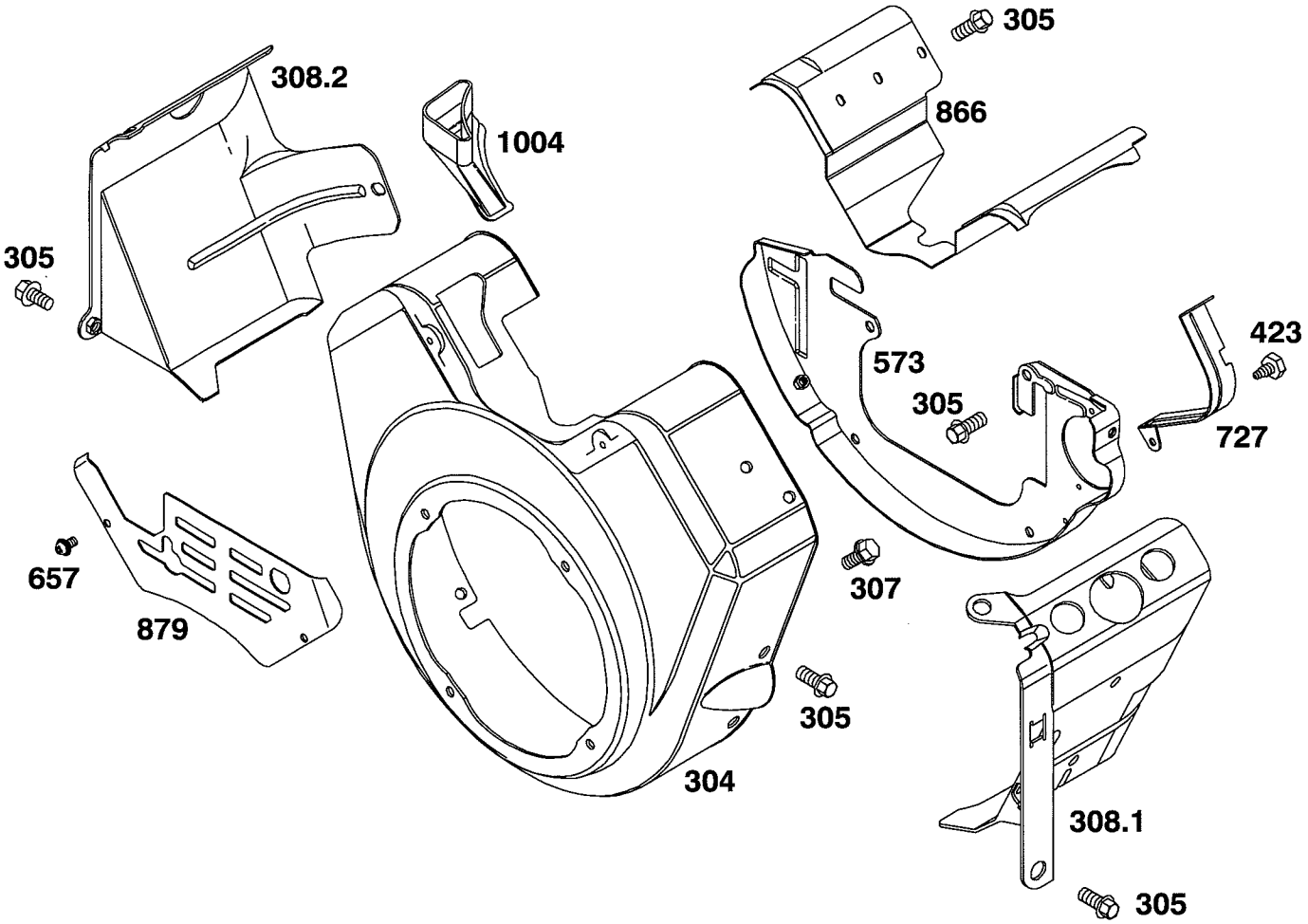
*Included in Carburetor Overhaul Kit – Part No. 807726.



ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
161	807857	Base Assy. – Air Cleaner	
305	805406	Screw	
445	394018	Cartridge – Air Cleaner	
467	491875	Knob – Air Cleaner	
535	271271	Element – Foam	
537	805655	Gasket – Air Cleaner	

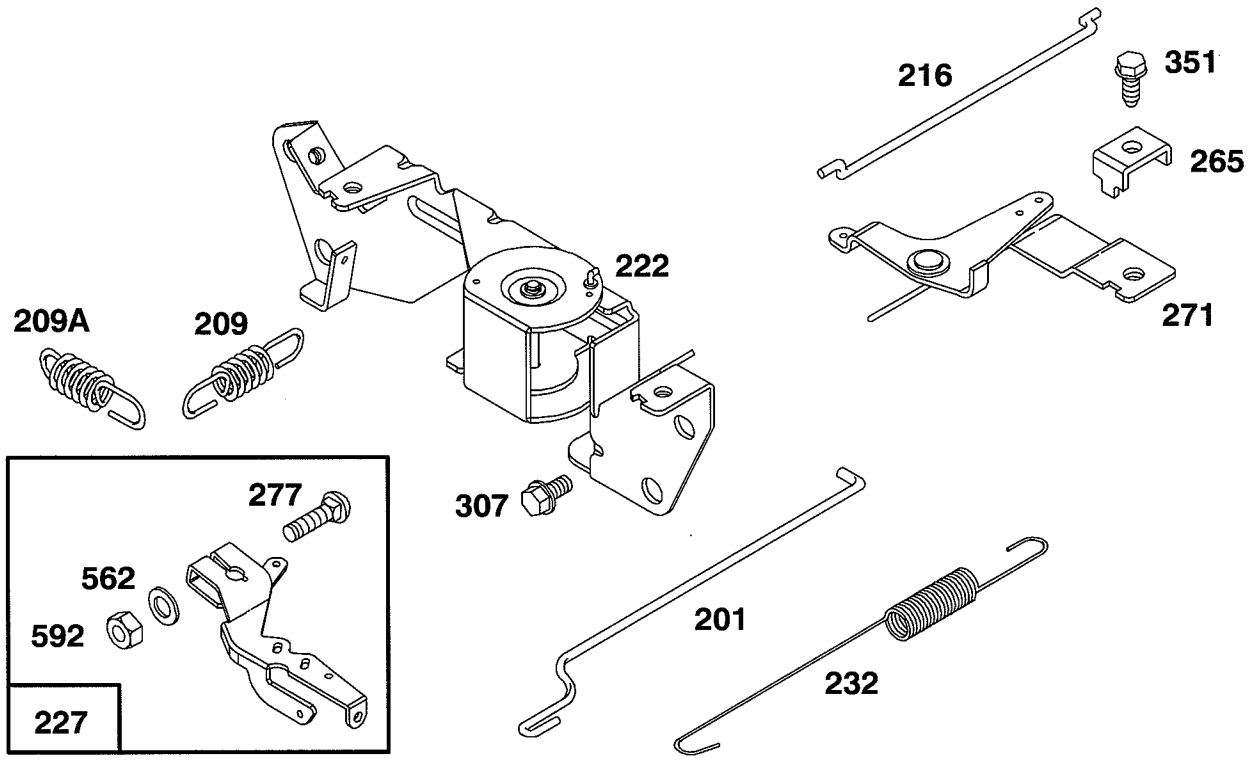
Ref. No.	Part No.	Description	No. Used
642	807862	Cover Assy. – Air Cleaner	
643	805631	Plate – Air Cleaner	
819	805057	Screw	
862	807796	Bracket – Air Cleaner	
1014	807797	Carburetor Inlet Shield Assy.	



ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
304	807898	Housing – Blower	
305	805406	Screw	
307	805025	Screw	
308.1	807656	Cover – Air Guide (Cyl. #1)	
308.2	807657	Cover – Air Guide (Cyl. #2)	
423	805260	Screw	

Ref. No.	Part No.	Description	No. Used
573	807663	Back Plate Assembly	
657	805009	Screw	
727	805505	Shield – Starter	
866	807660	Valley Cover – Air Guide	
879	805636	Cover – Carburetor	
1004	805632	Tube – Air Inlet	

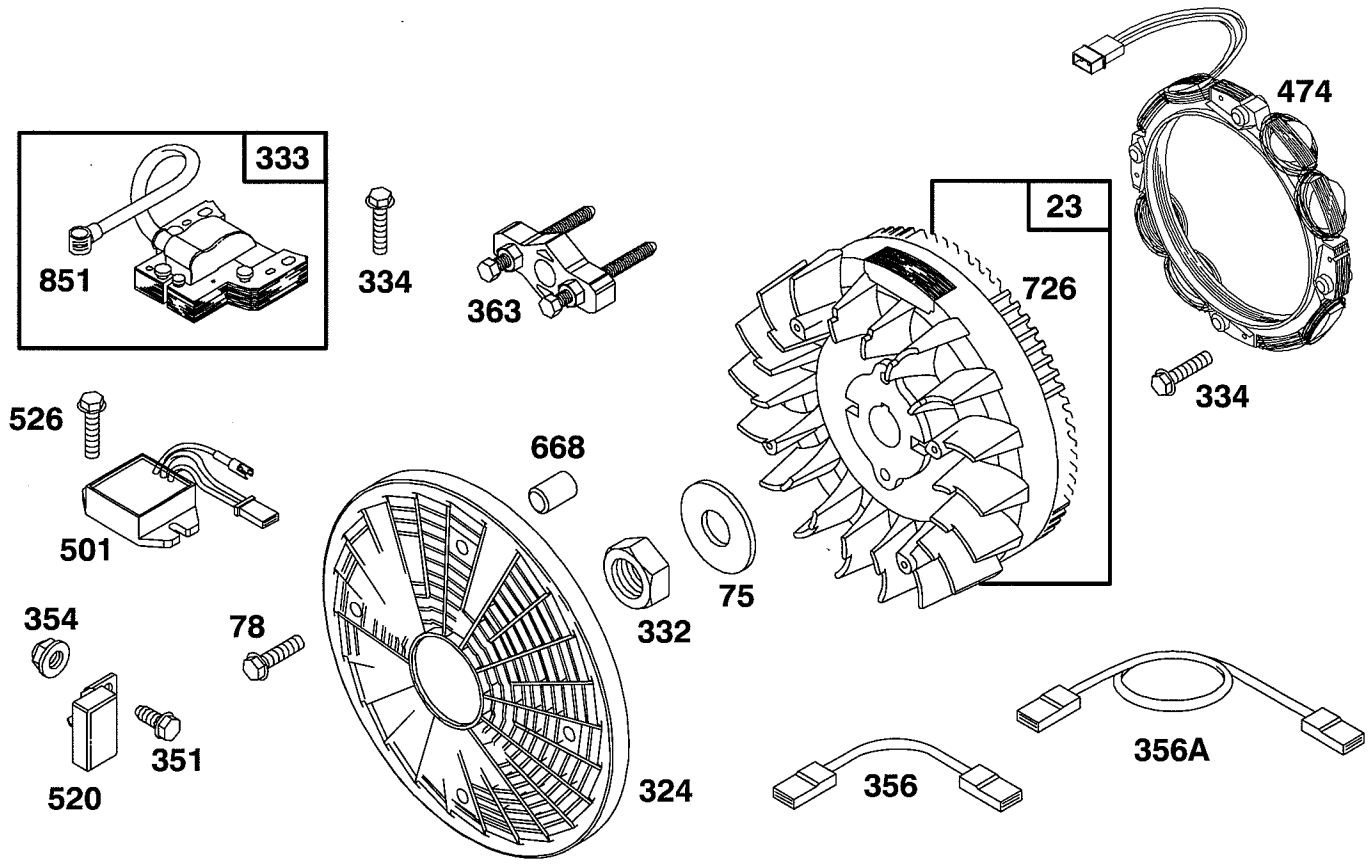


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
201	805480	Link – Governor	
209	805464	Spring – Governor	
209A	805453	Spring – Governed Idle	
216	805439	Link – Choke	
222	807610	Bracket – Governor Control	
227	807528	Lever Assembly – Governor	
232	805465	Spring – Governor Link	

Ref. No.	Part No.	Description	No. Used
265	221535	Clamp – Casing	
271	807609	Bracket – Choke Control	
277	805018	Washer	
307	805025	Screw	
351	805169	Screw – Hex. Head	
562	805381	Bolt	
592	805383	Nut – Hex.	

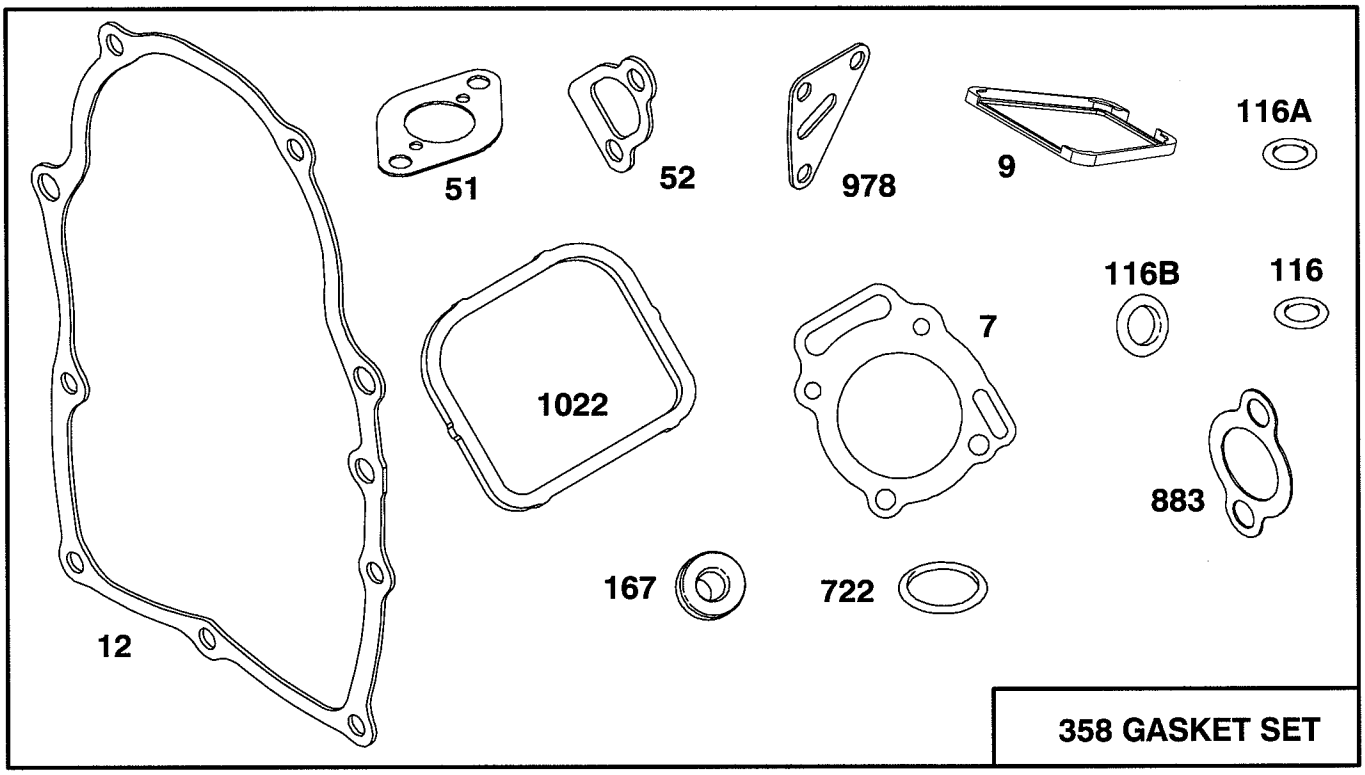


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
23	807531	Flywheel – Magneto	
75	805007	Washer – Spring	
78	805447	Screw	
324	280829	Screen – Rotating	
332	805021	Nut – Hex	
333	492341	Armature – Magneto	
334	805407	Screw – Mounting	
351	805169	Screw – Hex Head	
354	805496	Nut – Nylock	
356	807594	Wire – Ground (Cyl. #1)	

Ref. No.	Part No.	Description	No. Used
356A	807593	Wire – Ground (Cyl. #2)	
363	19203	Puller – Flywheel	
474	393295	Stator – Alternator	
501	394890	Regulator – Alternator	
520	807527	Terminal – Ground	
526	805448	Screw – Mtg.	
668	805402	Spacer	
726	807805	Gear – Flywheel Ring	
851	221798	Terminal – Ignition Cable	



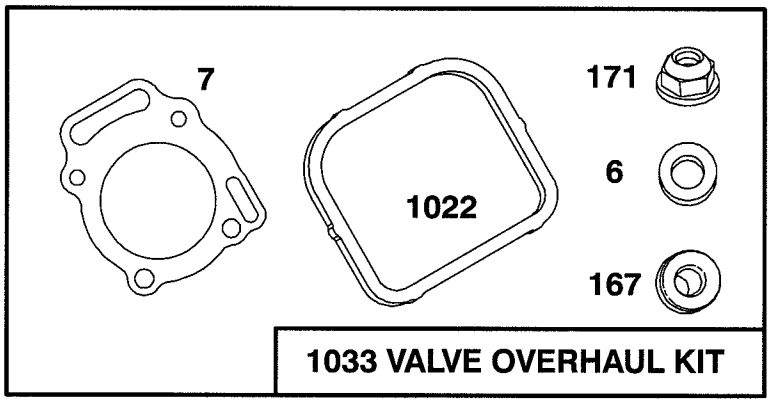
Assemblies include all parts shown in frames.

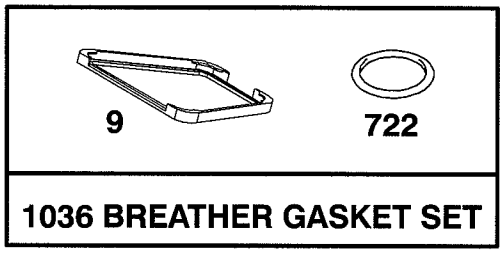
ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

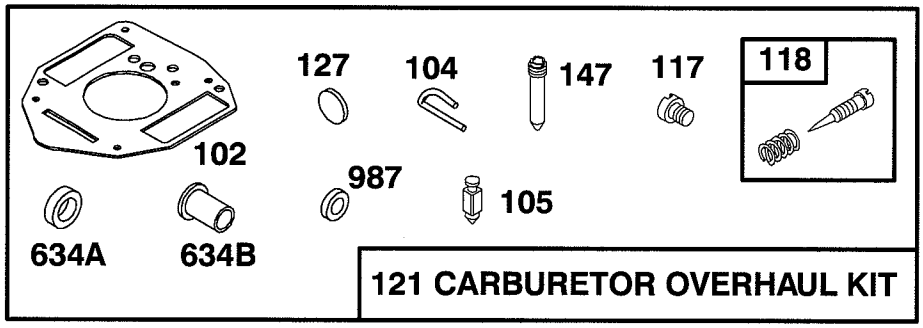
Ref. No.	Part No.	Description	No. Used
†7	805111	Gasket – Cylinder Head	
*9	805379	Gasket – Breather	
*12	805112	Gasket – Crankcase Cover	
*51	805264	Gasket – Carburetor Mtg.	
*52	805023	Gasket – Intake Manifold	
*116	805058	O–Ring (Oil Pump)	
*116A	805198	O–Ring (Crankcase Cover)	

Ref. No.	Part No.	Description	No. Used
*116B	805316	O–Ring (Pick – Up Tube)	
*†167	805420	Washer – Valve Cover	
358	807640	Gasket Set	
*722	805483	Seal – Breather Screw	
*883	805024	Gasket – Exhaust Manifold	
*978	805250	Gasket – Oil Filter Adapter	
*†1022	805028	Gasket – Valve Cover	

*Included in Gasket Set – Part No. 807640.
†Included in Valve Overhaul Kit – Part No 807668.







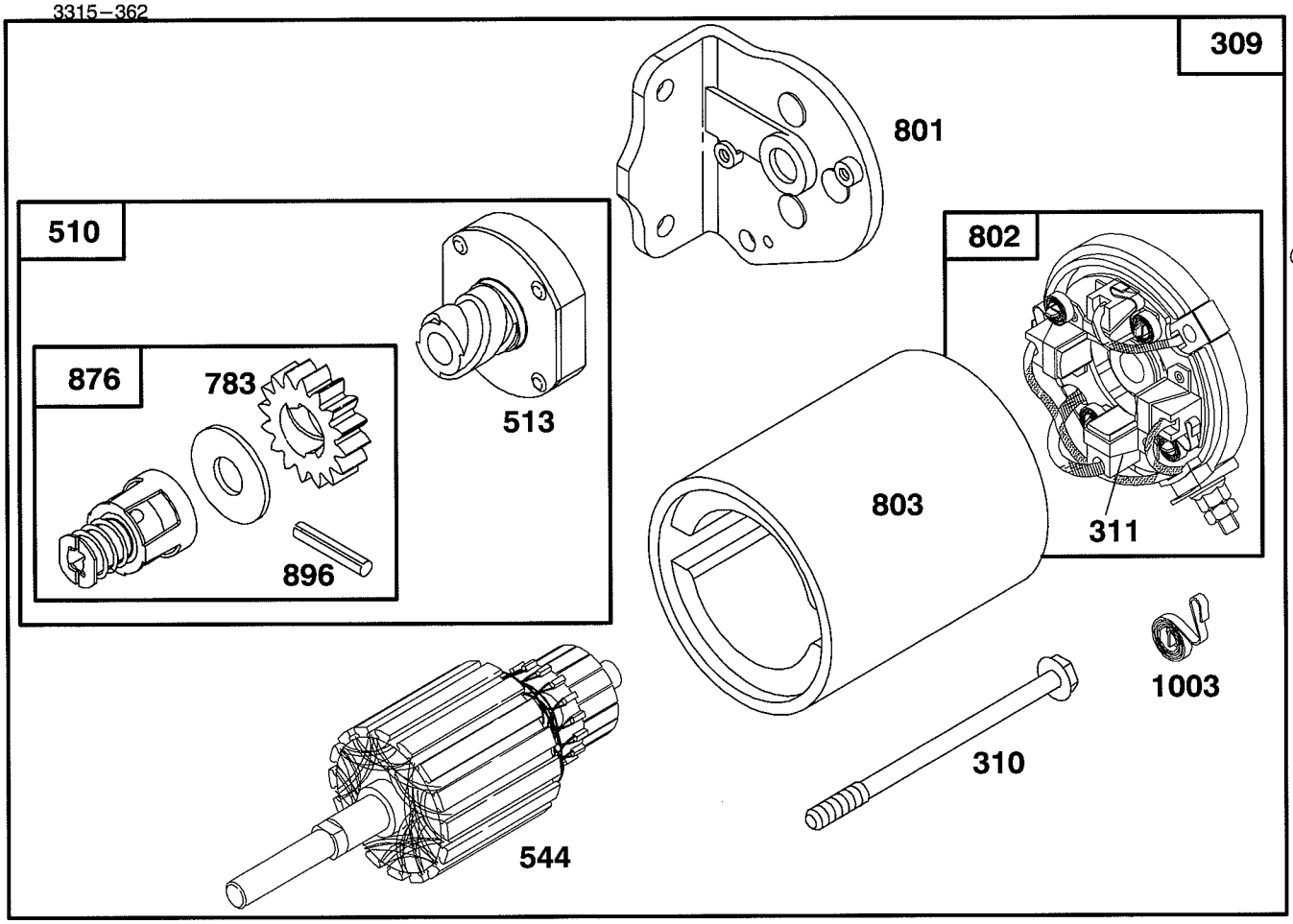
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
‡6	805193	Washer – Cylinder Head	
‡7	805111	Gasket – Cylinder Head	
*9	805379	Gasket – Breather	
†102	805541	Gasket – Intake Elbow	
†104	805545	Pin – Float Hinge	
†105	805547	Valve – Fuel Inlet	
†117	805548	Jet – Main	
†118	807719	Valve – Idle Adjusting	
121	807726	Carburetor Overhaul Kit	
†127	805559	Plug – Welch	

Ref. No.	Part No.	Description	No. Used
†147	805553	Jet – Slow Speed	
‡167	805420	Washer – Valve Cover	
‡171	805019	Nut – Nylock	
†634A	805557	Collar – Throttle	
†634B	805543	Collar – Choke	
722	805483	Seal – Breather Screw	
†987	805544	Seal – Shaft	
*‡1022	805028	Gasket – Valve Cover	
1033	807668	Overhaul Kit – Valve	
1036	807688	Gasket Set – Breather	

*Included in Gasket Set – Part No. 807640.
†Included in Carburetor Overhaul Kit – Part No. 807726. ‡Included in Valve Overhaul Kit – Part No. 807668.



Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447–0411–01

Ref. No.	Part No.	Description	No. Used
188	805247	Screw – Hex. Head	
309	399169	Motor – Starting	
310	94169	Bolt	
311	490311	Brush Assembly	
510	490421	Drive Assembly	
513	398003	Clutch Assembly	
544	490309	Armature Assembly	

Ref. No.	Part No.	Description	No. Used
783	280104	Gear	
801	394856	Cap Assy. – Drive	
802	490310	Cap Assy. – Commutator	
803	398892	Housing Assembly	
876	490467	Gear Kit	
896	94288	Roll Pin	
1003	490316	Brush Spring Set	

TORO PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.
3–0348	Bushing – Sleeve	3	11	6
3–0348	Bushing – Sleeve	4	14	6
3–0348	Bushing – Sleeve	6	22	6
3–1506	Bushing – Flange	3	16	4
3–1506	Bushing – Flange	4	30	4
3–1506	Bushing – Flange	6	38	4
3–4808	Nut – Wing	35	1	1
3–6657	Clip – Skid	35	4	2
3–6685	Spring – Compression	19	17	1
5–0946	Key – Square	28	12	1
5–0946	Key – Square	29	16	1
5–1226	Washer – Shim	3	10	2
5–1226	Washer – Shim	4	16	2
5–1226	Washer – Shim	6	24	2
5–3934	Bolt – Castor	30	20	1
8–7710	Ball Joint Receiver Assy.	4	4	2
8–7710	Ball Joint Receiver Assy.	6	4	2
8–7710	Ball Joint Receiver Assy.	3	25	2
10–6060	Pin – Lift Cylinder	3	7	1
10–6060	Pin – Pivot	4	19	1
10–6090	Pin – Pivot	4	33	1
10–6090	Pin – Pivot	3	37	1
10–6090	Pin – Pivot	6	41	1
10–6110	Pin – Hinge	3	3	1
10–6110	Pin – Pivot	4	24	1
10–6821	Brake Drum Assembly	8	*	2
10–6830	Stud – Drive	30	17	4
10–6850	Drum – Brake	8	6	2
10–6870	Hub – Wheel	8	5	2
10–7070	Key – Square	28	20	1
10–7820	Pivot Hinge Assembly	3	12	1
10–7820	Pivot Hinge Assembly	4	25	1
10–7820	Pivot Hinge Assembly	6	33	1
10–7850	Latch – Parking Brake	1	23	1
10–7880	Hinge – Upper	1	8	1
10–7890	Hinge – Lower	1	22	1
10–8100	Strap – Brake Shaft	1	31	2
10–8110	Washer – Thrust	3	9	6
10–8110	Washer – Thrust	4	15	6
10–8110	Washer – Thrust	6	23	6
10–8140	Spring – Torsion	1	7	1
10–8240	Pad – Lift	2	37	1
10–8250	Pad – Mow	2	39	1
11–0160	Roller Shaft Screw Assy.	3	14	2
11–0160	Roller Shaft Screw Assy.	4	28	2
11–0160	Roller Shaft Screw Assy.	6	36	2
12–3270	Screw – Hex. Washer Hd.	10	38	1
12–3270	Screw – Thread Forming	12	50	1
12–9140	Decal	35	1	1
18–6320	Washer – Steering	30	7	3
20–0080	Rod	35	7	1
20–0110	Bracket – Alignment	35	2	1
21–8470	Shaft – Roller	3	21	1
21–8470	Shaft – Roller	4	36	1
21–8470	Shaft – Roller	6	44	1
22–6090	Washer – Thrust	34	4	1
23–8840	Puller – Bolt	34	3	1
23–8850	Tube – Support	34	5	1
23–8860	Pin – Bearing Rplcmnt.	34	6	1
23–8880	Driver – Bearing	34	1	2
26–3790	Nut – Lock	8	4	2
27–1960	Hub – Engine	28	21	1
27–1970	Hub – Pump	28	22	1
27–2270	Rod – Brake Adjusting	1	29	2
27–2320	Bearing – Flange	10	7	2
27–2320	Bearing – Side Flange	1	33	2
27–2380	Spacer	20	32	2
27–2540	Spacer – Hub	6	31	1
27–2550	Pin – Pivot	6	27	1
27–6600	Spacer – Coupling	28	15	4
28–1400	Battery	20	11	1
28–3680	Tire	8	2	2
28–3680	Tire	30	9	1
28–4210	Solenoid – Starter	20	5	1
28–7890	Module – Interlock	22	26	1
28–8080	Boot Terminal	20	13	1
29–9080	Handle	35	3	1
29–9090	Hose – Handle	35	4	1
36–4310	Brush	35	5	1
38–0410	Nut – Hex.	14	53	1
38–0410	Nut – Hex.	16	59	1
39–9600	Clamp – Mounting	22	9	1
42–2680	Race R. Detent	13	46	1
43–2830	Nut – Hex	27	33	1
43–5220	Ring – Retaining	7	10	1
43–5230	Shaft & Clevis	7	11	1
43–5930	Washer – Lock	27	25	2
43–8600	Spring – Compression	19	21	1
43–8610	Seat – Ball	19	20	1
43–8620	Guide – Switch	19	23	1
43–8860	Plunger – Switch	19	22	1
43–8870	Boot – Switch	19	26	1
43–9071	Seat Switch Assembly	19	*	1
44–0870	Shaft – Cam	10	5	1
44–2230	Coupling – Rubber	28	16	1
44–5560	Head – Oil Filter	20	27	1
46–8560	Screw – Self Taping	20	20	3
47–2890	Bushing – Sleeve	17	20	2
47–5320	Lever – Control	10	40	1
47–6640	Valve Flow Control	21	*	1
47–6990	Nut – Steering Wheel	17	10	1
48–7610	Screw – Cap Hex. Hd.	25	9	1
48–7620	Screw – Cap Hex. Hd.	27	36	1
49–0170	Seal Kit	18	*	1
49–0300	Plug Pipe	21	10	2
49–0320	Plate – Dial	21	20	1
49–0340	Spring – Metering	21	12	1
49–0350	Handle	21	18	1
49–0360	Screw – Thumb	21	2	1
49–0370	Spool – Metering	21	11	1
49–5430	Rod – Control	10	1	1
49–5430	Rod – Control	1	4	1
49–5880	Shaft – Seat Suport	19	27	1
49–6110	Guard – Transfer Rod	1	6	1
49–6120	Pad – Footrest	1	13	1
49–6170	Pad – Brake	2	49	1
49–6200	Lever – Cutting Control	2	42	1
49–6220	Bracket – Control Arm	10	9	1
49–6250	Bracket – Traction Pivot	10	35	1
49–6260	Traction Pivot Assembly	10	21	1
49–6290	Shaft – Traction Pivot	10	37	1
49–6440	Pedal – Forward	10	42	1
51–0350	Pin – Seat Spring	19	16	1
51–0780	Slider – Seat	19	31	1
51–0790	Adjuster – Seat	19	6	1
52–1990	Piston	5	3	1
52–2720	Roller Assembly	3	20	1
52–2720	Roller Assembly	4	35	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
52-2720	Roller Assembly	6	43	1
52-5860	Collar – Spool	16	51	1
52-5880	Ball – Steel	13	47	12
52-5900	Screw – Fillister Hd.	15	37	4
52-9230	Ring – Retaining	18	2	1
52-9240	Bushing – Seal, Gland	18	3	1
52-9250	Needle Bearing Kit	18	*	1
52-9260	Screw – Set	18	26	1
52-9270	Seat – Ball, Check	18	24	1
52-9280	Ball – Check	18	22	1
52-9290	Retainer – Ball, Check	18	21	1
52-9350	Screw – Cap	18	19	7
56-2230	Hose – Fuel	25	17	1
56-7720	Bolt – Battery	20	17	2
56-7970	Clamp Half – Tube	2	45	2
57-6140	Clamp Half – Tube	8	20	2
57-6220	Link	10	17	5
57-7650	Spring – Torsion	4	11	1
57-7650	Spring – Torsion	6	18	1
57-7650	Spring – Torsion	3	32	1
58-3953	Steering – Valve Assembly	17	24	1
58-6520	Decal – Grease	30	35	2
59-6730	Race – Bearing	18	8	2
59-6740	Bearing – Needle, Thrust	18	9	1
59-6830	Centering Pin Kit	18	20	1
59-6890	Cap – End	18	18	1
62-2390	Bar – Lift L.H.	3	30	1
62-2420	Bar – Lift	6	8	1
62-2420	Bar – Lift	4	9	1
62-2440	Lift Arm Assembly	4	8	1
62-2460	Lift Arm Assembly L.H.	3	29	1
63-3810	Hose – Hydraulic	32	1	1
63-3820	Hose – Hydraulic	32	2	1
63-3830	Hose – Hydraulic	32	13	1
63-3840	Hose – Hydraulic	32	5	1
63-3840	Hose – Hydraulic	11	36	1
63-3850	Hose – Hydraulic	11	31	1
63-3850	Hose – Hydraulic	3	39	1
63-3870	Hose – Hydraulic	32	16	1
63-3880	Hose – Hydraulic	11	18	1
63-3880	Hose – Hydraulic	11	29	1
63-3880	Hose – Hydraulic	4	39	2
63-4020	Tube – Hydraulic	32	17	1
63-4020	Tube – Hydraulic	11	40	1
63-4030	Tube – Hydraulic	32	18	1
63-4030	Tube – Hydraulic	11	41	1
63-4040	Hydraulic Tube Assembly	32	4	1
63-4040	Tube – Hydraulic	11	35	1
63-4050	Fitting – Tee	11	42	2
63-8360	Key – Ignition	22	17	1
63-8410	Washer – Flat	25	4	4
63-8410	Washer – Flat	24	36	3
63-8750	Pin – Pivot	6	9	1
63-8750	Pin – Pivot	4	10	1
63-8750	Pin – Pivot	3	33	1
65-4860	Head	5	9	1
65-6390	Washer – Thrust	17	13	1
66-1660	Spool – Lever Side	21	13	1
66-2950	Gauge – Hourmeter	22	5	1
67-1300	Decal – TORO	20	39	1
68-4940	Hydraulic Pump Assembly	28	9	1
68-5100	Rod – Seat Prop	19	10	1
68-5130	Steering Wheel Assembly	17	11	1
68-5140	Cap – Steering Wheel	17	9	1
68-5260	Fitting – Manifold Tee	11	37	1
68-5310	Clip – Seat Rod	19	12	1
68-5380	Lift Arm Assembly	6	21	1
68-5560	Pin – Cylinder Pivot	6	26	1
68-5880	Hose – Hydraulic	20	30	1
68-6150	Breather	24	21	1
69-9760	Plate – Cover	2	50	1
70-2770	Head	7	8	1
70-2780	Piston	7	4	1
70-7130	Tube Assy.	11	3	1
70-7150	Hose – Hydraulic	12	48	1
70-8130	Barrel	7	1	1
70-8250	Drive	18	16	1
70-8610	Hose – Hydraulic	12	51	1
70-8631	Cap – Fuel	25	1	1
70-8640	Hydraulic Reservoir Cap Assy.	24	8	1
70-9800	Reel Motor Assembly	32	8	3
70-9840	Shoe – Brake	8	8	4
70-9850	Clip – Retaining	8	23	2
70-9860	Cam – Brake	8	27	2
70-9870	Plate – Backing	8	10	2
70-9880	Spring – Return	8	7	4
71-0990	Orifice	11	43	1
71-1500	Brake Assembly	8	*	2
71-1510	Arm – Brake	8	24	2
72-3850	Seal – Filter	20	28	1
72-4320	Switch – Ball	19	18	1
72-4380	Seal Kit	33	*	1
72-4390	Repair Kit	33	*	
72-4790	Hold-Down – Battery	20	16	1
74-0720	Tube – Manual	19	3	1
74-3570	Filter – Hydraulic Oil	20	29	1
74-3730	Spacer – Hub	30	11	2
74-3830	Hose – Hydraulic	32	12	1
74-3830	Hose – Hydraulic	11	28	1
74-9100	Pad – Forward Pedal	10	25	1
74-9110	Pad – Reverse Pedal	10	23	1
75-0540	Tether – Cap	24	9	1
75-9440	Hub – Wheel	30	15	1
75-9990	Motor – Hydraulic	8	22	2
76-0800	Seal Kit	9	*	1
76-0810	Housing Assembly	9	*	1
76-0840	Manifold	9	22	1
76-0850	Bearing – Thrust	9	12	1
76-0860	Shaft – Coupling	9	11	1
76-0870	Plate – Wear	9	18	1
76-0880	Commutator Assembly	9	*	1
76-0940	End Cover Assembly	9	24	1
76-0960	Link – Drive	9	13	7
76-0970	Rotor Set	9	*	1
76-1010	Screw – Cap Hex. Hd.	9	14	1
76-1850	Clevis	5	13	1
76-1860	Shaft	5	6	1
77-0480	Screw – Traction Stop	10	34	1
80-9330	Audio Alarm Assembly	22	25	1
83-0010	Engine Assembly	27	15	1
83-0020	Ignition Switch Assembly	22	14	1
83-0030	Control – Throttle	22	12	1
83-0040	Control – Choke	22	13	1
83-0060	Lift – Pivot	1	26	1
83-0080	Spring – Torsion	1	25	1
83-0140	Pedal – Mow	2	38	1
83-0160	Shaft – Brake	2	48	1
83-0190	Cover – R.H.	8	18	1

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Part No.	Description	Pg. No.	Ref. No.	Qty.
83–0200	Cover – L.H.	1	17	1
83–0220	Frame Assembly	20	18	1
83–0540	Pedal – Traction	10	24	1
83–0580	Rod – Traction Control	10	32	1
83–0590	Traction Handle Assembly	10	12	1
83–0630	Arm – Traction Pivot	10	29	1
83–0640	Plate – Footrest	1	12	1
83–0700	Handle – Lockup	17	18	1
83–0730	Spacer – Lockup	17	15	1
83–0740	Disc – Friction	17	14	2
83–0750	Screw – Cap Hex. Hd. L.H.	17	6	1
83–0760	Plate – Lockup	17	16	1
83–0780	Support – Steering Valve	17	4	1
83–0810	Cover – Steering Valve	17	25	1
83–0820	Gauge – Ammeter	22	4	1
83–0830	Panel – Control Upper	20	33	1
83–0840	Fender – L.H.	20	19	1
83–0860	Reservoir – Hydraulic	24	5	1
83–0870	Fitting – Hydraulic Straight	24	32	3
83–0910	Hose – Hydraulic	24	30	2
83–0910	Hose – Pump	28	11	2
83–0920	Tank – Fuel	25	2	1
83–0930	Fork – Castor	30	19	1
83–1030	Mount – Engine	27	4	3
83–1040	Washer – Mount	27	2	3
83–1050	Spacer – Mount	27	3	2
83–1060	Adapter – Pump	27	10	1
83–1080	Pipe – Exhaust	27	7	1
83–1100	Harness – Wire (Main)	23	1	1
83–1100	Harness – Wire (Main)	22	8	1
83–1110	Harness – Wire (Engine)	23	2	1
83–1150	Wire – Engine Ground	23	5	1
83–1160	Wire – Soleniod – Starter	23	3	1
83–1170	Hose – Hydraulic	11	22	1
83–1170	Hose – Hydraulic	28	28	1
83–1190	Hose – Hydraulic	28	1	2
83–1190	Hose – Hydraulic	11	10	2
83–1200	Tube Assy.	11	5	1
83–1220	Plate – Clamp	8	21	1
83–1230	Muffler	27	19	1
83–1320	Filter – Fuel	25	13	1
83–1350	Hose – Hydraulic	11	45	1
83–1390	Fiting – Fuel Shut–Off	25	15	1
83–1400	Shield – Muffler	27	16	1
83–1420	Column – Steering	17	23	1
83–1430	Hose – Hydraulic	20	23	1
83–1430	Hose – Hydraulic	24	34	1
83–1450	Sensor – Oil Level	24	3	1
83–1460	Solenoid Valve Assembly	24	28	1
83–1470	Washer – Neoprene	24	18	4
83–1520	Screen – Filler	24	6	1
83–1530	Bracket – Alarm	22	23	1
83–1550	Spacer – Tank (Short)	24	17	2
83–1560	Spacer – Tank (Long)	24	23	2
83–1630	Bracket – Muffler Support	27	24	1
83–1640	Rod End Assembly	30	6	1
83–1660	Switch Assembly	22	6	1
83–1670	Fitting – Special	11	27	1
83–1680	Hose – Hydraulic	6	13	1
83–1680	Hose – Hydraulic	11	30	1
83–1690	Hose – Hydraulic	11	21	1
83–1690	Hose – Hydraulic	3	40	1
83–1700	Bushing – Flange	8	33	2
83–1700	Bushing – Flange	17	35	1
83–1830	Cover – R.H.	20	2	1
83–1860	Centering Spring Kit	18	12	1
83–1870	Gerotor	18	17	1
83–1880	Control Parts Assembly	18	*	1
83–1890	Switch – Ball	14	54	1
83–1890	Switch – Ball	16	60	1
83–1900	Plate – Spacer	18	15	1
83–1940	Guard – Pump	28	30	1
83–2000	Spool – Valve	24	42	1
83–2010	Coil – Valve	24	43	1
83–2030	Plate – Filler	22	3	1
83–2040	Hose – Fuel	25	14	1
83–2041	Hose – Fuel	25	11	1
83–2070	Hose – Valve	24	14	1
83–2080	Hose – Valve–Tank	24	29	1
83–2090	Hose – Overflow	24	15	1
83–2200	Nut – Special	25	8	1
83–2220	Deflector – Exhaust	27	20	1
83–2230	Screw – Cap Hex. Hd.	27	22	4
83–2250	Guage – Sight	24	25	1
83–2270	Hose – Hydraulic	28	8	1
83–2270	Hose – Hydraulic	21	15	1
83–2280	Timer – Delay	22	27	1
83–2310	Shield	27	35	1
83–2330	Hydraulic Cylinder Assy.	30	33	1
83–2340	Cap – Threaded	31	2	2
83–2350	Cap – Head, Thread	31	5	2
83–2360	Assembly – Rod	31	9	1
83–2370	Assembly – Barrel	31	12	1
83–2380	Kit – Seal Repair	31	*	1
83–2390	Pad – Tank	24	2	1
83–2400	Spacer – Tank	24	1	2
83–2420	Wire – Solenoid – Battery	23	4	1
83–2450	Hose – Hydraulic	11	1	1
83–2450	Hose – Hydraulic (Top)	8	34	1
83–2460	Hose – Hydraulic	11	4	1
83–2460	Hose – Hydraulic (Bottom)	8	*	1
83–2480	Decal – Parking Brake	1	9	1
83–2490	Decal – Service	19	34	1
83–2500	Decal – Traction Control	21	3	1
83–2510	Decal – Steering Arm	17	32	1
83–2520	Decal – Warning	17	5	1
83–2530	Decal – Mow/Lift	1	14	1
83–2540	Decal – Traction	20	38	1
83–2550	Decal – Engine RPM	27	13	1
83–2560	Decal – Warning Hot	27	34	1
83–2570	Plate – Control Panel	22	2	1
83–2580	Cylinder – Lift	3	6	1
83–2580	Hydraulic Cylinder Assy.	4	22	1
83–2590	Bolt – Shoulder	2	47	1
83–7230	Hydraulic Cylinder Assembly	6	10	1
84–2000	Bracket – Brake	8	12	2
84–2202	Control Valve Assembly	16	*	1
84–2202	Control Valve Assembly	11	16	1
84–3180	Decal – Hydraulic Oil	19	33	1
84–5300	Nut – Jam	30	5	1
84–6560	Decal – Danger	4	3	1
84–6560	Decal – Danger	6	3	1
84–6560	Decal – Danger	3	13	1
84–8700	Pivot – Seat	19	36	1
84–8730	Hose – Hydraulic	28	7	1
84–8730	Hose – Hydraulic	17	26	3
84–8730	Hose – Hydraulic	30	28	1
84–8740	Hose – Hydraulic	17	27	1

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Part No.	Description	Pg. No.	Ref. No.	Qty.
84-8740	Hose – Hydraulic	30	30	1
84-8760	Arm – Steering	17	3	1
84-8770	Seat Support Assembly	19	7	1
84-8800	Bracket	19	35	1
85-6540	Stud – Drive	8	28	8
85-8120	Plate – Engine Mount	27	28	1
86-5360	Repair Kit	7	*	1
86-5390	Seal Kit	5	*	1
86-9810	Frame – Pull L.H.	3	24	1
86-9820	Frame – Pull R.H.	4	1	1
86-9820	Frame – Pull Rear	6	1	1
88-9500	Needle Valve Assembly	12	*	1
88-9620	Decal – Greensmaster 3100	2	46	1
88-9630	Bracket – Lift Pivot RH	2	40	1
88-9640	Bracket – Lift Pivot LH	1	28	1
88-9660	Shaft – Cutting Control	2	36	1
88-9700	Hose – Hydraulic	6	15	1
88-9700	Hose – Hydraulic	11	20	1
88-9710	Fitting – Hydraulic 90°	20	31	1
92-0585	Pull Arm Assembly R.H.	3	19	1
92-0585	Pull Arm Assembly R.H.	4	34	1
92-0585	Pull Arm Assembly R.H.	6	42	1
92-0586	Pull Arm Assembly L.H.	3	17	1
92-0586	Pull Arm Assembly L.H.	4	31	1
92-0586	Pull Arm Assembly L.H.	6	39	1
92-0587	Fitting – Valve Body	11	17	1
92-0588	Valve – Needle	12	53	1
92-1180	Seat Assembly	19	5	1
92-1188	Hose – Hydraulic	21	17	1
92-1188	Hose – Hydraulic	20	44	1
92-1189	Hose – Hydraulic	11	6	1
92-1189	Hose – Hydraulic	21	9	1
92-1665	Fitting – Hydraulic Straight	24	12	1
92-1666	Tank – Auxiliary Hydraulic	24	26	1
92-2545	Seals – Spool	14	*	1
92-2545	Seals – Spool	16	*	1
92-2546	Wiper – Seal	13	25	4
92-2546	Wiper – Spool	16	64	5
92-2547	Plate – Seal Retainer	15	18	5
92-2547	Plate – Seal Retainer	13	24	4
92-2548	Seal – Spool	14	*	1
92-2548	Seals – Spool	16	*	1
92-2549	Seals – Spool	16	*	1
92-3058	Spring	13	41	1
92-4063	Plug – Filler Cap	24	7	1
217-60	Rim	8	3	2
217-60	Rim	30	10	1
218-461	Nut – Hex.	22	16	1
218-461	Nut – Hex.	19	25	2
218-594	Fuse – 20 Amp	22	7	1
2112-11	Clamp – Muffler	27	14	1
232-24	Stem – Valve	8	1	2
232-24	Valve Stem w/Cap	30	18	1
233-48	Knob	10	11	1
233-48	Knob	17	17	1
237-7	Seal – O-Ring	19	24	1
237-21	Seal – O-Ring	28	6	1
237-21	Seal – O-Ring	11	19	6
237-21	Seal – O-Ring	17	29	4
237-21	Seal – O-Ring	30	31	2
237-22	Seal – O-Ring	28	2	3
237-22	Seal – O-Ring	11	11	6
237-22	Seal – O-Ring	32	11	5
237-30	Seal – O-Ring	32	3	5

Part No.	Description	Pg. No.	Ref. No.	Qty.
237-30	Seal – O-Ring	11	7	1
237-30	Seal – O-Ring	21	8	3
237-30	Seal – O-Ring	19	19	1
237-30	Seal – O-Ring	28	27	1
237-30	Seal – O-Ring	20	43	1
237-35	Seal – O-Ring	6	11	2
237-42	Seal – O-Ring	28	4	4
237-42	Seal – O-Ring	32	9	3
237-42	Seal – O-Ring	11	15	6
237-42	Seal – O-Ring	17	31	4
237-54	O-Ring	15	3	6
237-54	O-Ring	13	6	8
237-54	Seal – O-Ring	21	14	2
237-58	Seal – O-Ring	11	34	1
237-65	Seal – O-Ring	11	2	6
237-65	Seal – O-Ring	8	15	4
237-78	Seal – O-Ring	6	14	2
237-78	Seal – O-Ring	30	32	2
237-78	Seal – O-Ring	3	38	2
237-78	Seal – O-Ring	4	38	2
237-79	Seal – O-Ring	32	7	3
237-79	Seal – O-Ring	11	9	4
237-79	Seal – O-Ring	24	11	5
237-80	Seal – O-Ring	24	4	1
237-80	Seal – O-Ring	21	6	3
237-80	Seal – O-Ring	8	13	4
237-80	Seal – O-Ring	28	25	1
237-80	Seal – O-Ring	11	32	3
237-80	Seal – O-Ring	20	41	1
237-81	Seal – O-Ring	11	38	1
237-101	Seal – O-Ring	20	26	2
237-123	Seal – O-Ring	24	24	1
237-143	Grommet	20	40	2
237-177	Seal – O-Ring	24	33	3
240-11	Grommet	25	3	4
240-11	Grommet	24	37	3
242-50	Nut – Lug	30	8	4
242-50	Nut – Lug	8	29	8
2410-18	Plug	35	2	1
2410-73	Retainer – Tether	24	10	1
2411-42	Joint – Ball L.H. Thread	10	30	1
2411-43	Joint – Ball R.H. Thread	10	33	1
2412-34	Clamp – Hose	28	10	2
2412-34	Clamp – Hose	20	24	2
2412-34	Clamp – Hose	24	31	3
2412-36	Clamp – Hose	24	13	4
2412-36	Clamp – Hose	25	16	2
2412-41	Clamp – R	25	5	3
2412-41	Clamp – R	12	47	2
2412-94	Clamp – R	25	10	1
2412-106	Clamp – R	22	28	1
2412-108	Clamp – Hose	25	12	4
2412-133	Clamp – R	19	4	2
2412-141	Clamp – Hose	24	41	2
250-6	Tie – Cable	27	*	2
251-141	Bearing – Ball	3	22	2
251-141	Bearing – Ball	4	37	2
251-141	Bearing – Ball	6	45	2
253-111	Seal – Shaft	30	12	2
254-61	Cup – Bearing	30	3	2
254-70	Cone – Bearing	30	4	2
254-78	Cone – Bearing	30	13	2
254-79	Cup – Bearing	30	14	2
256-2	Bushing – Sleeve	10	20	2

*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.
256–155	Bushing – Flange	10	26	2
256–155	Bushing – Flange	19	28	2
256–251	Bushing – Sleeve	10	10	2
282–2	Clevis – Adjusting	1	2	5
282–2	Clevis – Rod	10	3	1
283–8	Pin – Clevis	3	4	1
283–8	Pin – Clevis	4	18	1
283–57	Pin – Clevis	10	8	1
283–61	Pin – Clevis	1	1	5
283–61	Pin – Clevis	10	4	1
302–2	Fitting – Grease	6	17	1
302–2	Fitting – Grease	4	23	1
302–2	Fitting – Grease Straight	3	34	1
302–5	Fitting – Grease	31	13	1
302–5	Fitting – Grease	1	27	1
302–5	Fitting – Grease	4	29	4
302–5	Fitting – Grease Straight	3	15	4
302–5	Fitting – Grease Straight	6	37	5
302–11	Fitting – Grease	30	2	1
302–55	Fitting – Grease	30	16	1
302–60	Fitting – Grease 90°	3	8	2
302–60	Fitting – Grease 90°	4	17	2
302–60	Fitting – Grease 90°	6	32	1
304–61	Clamp – R	11	23	1
321–2	Screw – Cap Hex. Hd.	24	16	1
321–3	Screw – Cap Hex. Hd.	20	10	4
321–3	Screw – Cap Hex. Hd.	19	13	1
321–3	Screw – Cap Hex. Hd.	2	52	3
321–4	Screw – Cap Hex. Hd.	22	21	1
321–4	Screw – Cap Hex. Hd.	27	27	4
321–4	Screw – Cap Hex. Hd.	8	31	1
321–4	Screw – Hex. Flange Hd.	1	16	2
321–5	Screw – Cap Hex. Hd.	8	26	8
321–11	Screw – Cap Hex. Hd.	24	40	2
321–11	Screw – Cap Hex. Hd.	2	43	1
321–11	Screw – Hex. Washer Hd.	8	17	1
321–33	Screw – Cap Hex Hd.	21	22	2
322–1	Screw – Cap Hex. Hd.	3	1	3
322–1	Screw – Cap Hex. Hd.	4	21	3
322–1	Screw – Cap Hex. Hd.	6	30	2
322–1	Screw – Cap Hex. Hd.	28	31	2
322–2	Screw – Cap Hex. Hd.	19	1	2
322–3	Screw – Cap Hex. Hd.	6	25	1
322–3	Screw – Cap Hex. Hd.	19	32	1
322–3	Screw – Cap Hex. Hd.	27	32	6
322–4	Screw – Cap Hex. Hd.	28	32	2
322–4	Screw – Cap Hex. Hd.	20	36	4
322–5	Screw – Cap Hex. Hd.	10	36	2
322–6	Screw – Cap Hex. Hd.	28	18	4
322–8	Screw – Cap Hex. Hd.	27	21	2
322–14	Screw – Cap Hex. Hd.	24	20	2
322–14	Screw – Cap Hex. Hd.	11	39	3
322–29	Screw – Cap Hex. Hd.	24	22	2
323–4	Screw – Cap Hex. Hd.	17	7	2
323–6	Screw – Cap Hex. Hd.	25	6	3
323–6	Screw – Cap Hex. Hd.	24	35	3
323–8	Screw – Cap Hex. Hd.	28	24	2
323–12	Screw – Cap Hex. Hd.	27	1	3
323–13	Screw – Cap Hex. Hd.	1	5	4
324–7	Screw – Cap Hex. Hd.	27	30	4
325–4	Screw – Cap Hex. Hd.	17	19	2
325–11	Screw – Cap Hex. Hd.	8	9	8
3211–2	Screw – Cap Hex. Hd.	10	19	2
3217–5	Nut – Hex.	20	12	2
3217–6	Nut – Lock	29	1	4
3217–7	Nut – Hex	13	33	3
3217–12	Nut – Lock	30	26	1
3218–13	Nut – Jam	20	8	2
3219–2	Nut – Hex.	35	6	1
3219–14	Nut – Hex.	20	7	2
3219–14	Nut – Hex.	22	10	6
3219–18	Nut – Hex.	34	2	1
3220–2	Nut – Jam	10	2	2
3220–2	Nut – Jam	1	3	5
3220–3	Nut – Jam	4	2	2
3220–3	Nut – Jam	6	2	2
3220–3	Nut – Jam	3	23	2
3220–6	Nut – Jam	5	14	1
3220–6	Nut – Jam	30	21	2
3220–20	Nut – Jam L.H. Thread	10	31	1
3229–22	Bolt – Carriage	1	10	2
3234–1	Screw – Hex. Flange Hd.	10	6	4
3234–1	Screw – Hex. Flange Hd.	2	53	4
3234–4	Screw – Cap Hex. Hd.	12	46	1
3241–2	Screw – Set Square Hd.	28	19	2
3241–6	Screw – Set Square Hd.	28	13	2
3245–1	Screw – Set, Hex. Soc. Hd.	31	1	2
3246–3	Screw – Set	17	12	1
3253–3	Washer – Lock	27	26	4
3253–3	Washer – Lock	24	39	2
3253–3	Washer – Lock	2	44	1
3253–3	Washer – Lock	16	57	4
3253–4	Washer – Lock	19	2	2
3253–4	Washer – Lock	20	9	2
3253–4	Washer – Lock	3	41	1
3253–4	Washer – Lock	6	46	1
3253–6	Washer – Lock	27	29	4
3253–21	Washer – Lock	28	23	2
3253–21	Washer – Lock	4	27	2
3253–21	Washer – Lock	3	35	2
3253–21	Washer – Lock	6	35	2
3254–1	Washer – Lock	20	6	2
3254–1	Washer – Lock	22	31	2
3254–5	Washer – Lock	22	15	1
3254–6	Washer – I.T.L.W.	10	18	2
3255–7	Washer – Lock	22	29	1
3255–8	Washer – Lock. Int. Tooth	35	9	1
3256–1	Washer – Flat	27	18	8
3256–1	Washer – Flat	22	20	8
3256–21	Washer – Flat	22	30	2
3256–22	Washer – Flat	20	3	5
3256–22	Washer – Flat	8	30	2
3256–22	Washer – Flat	2	51	10
3256–22	Washer – Flat	12	52	1
3256–23	Washer – Flat	3	2	2
3256–23	Washer – Flat	28	17	8
3256–23	Washer – Flat	4	20	3
3256–23	Washer – Flat	27	23	2
3256–23	Washer – Flat	6	28	2
3256–23	Washer – Flat	19	30	4
3256–23	Washer – Flat	20	35	4
3256–24	Washer – Flat	10	14	6
3256–24	Washer – Flat	4	26	2
3256–24	Washer – Flat	6	34	2
3256–24	Washer – Flat	2	35	5
3256–24	Washer – Flat	3	36	2
3256–26	Washer – Flat	4	12	1
3256–26	Washer – Flat	6	20	1

*Not Illustrated

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3256-26	Washer - Flat	3	31	1
3256-26	Washer - Flat	17	34	2
3256-28	Washer - Flat	30	27	1
3256-63	Washer - Flat	25	7	1
3256-71	Washer - Flat	24	19	4
3256-80	Washer - Flat	17	2	3
3257-42	Key - Woodruff	8	11	2
3257-42	Key - Woodruff	9	17	1
3272-4	Pin - Cotter	10	13	1
3272-6	Pin - Cotter	1	30	5
3272-6	Pin - Cotter	10	41	1
3272-11	Pin - Cotter	3	5	2
3272-11	Pin - Cotter	19	9	1
3272-11	Pin - Cotter	4	13	2
3272-11	Pin - Cotter	6	19	1
3272-37	Pin - Cotter	30	1	1
3273-26	Screw - Hex. Socket Hd.	22	18	4
3274-7	Screw - Socket Hd.	27	9	2
3274-12	Screw - Hex. Socket Hd.	19	29	4
3274-15	Screw - Fillister Hd.	13	43	2
3274-31	Screw - Hex. Socket Hd.	1	15	4
3274-39	Screw - Cap Hex. Hd.	17	21	6
3274-42	Screw - Set Hex Socket	21	4	1
3274-52	Screw - Hex, Socket Hd.	13	20	4
3274-52	Screw - Hex. Socket Hd.	15	45	6
3274-63	Screw - Hex. Socket Hd.	17	33	2
3274-69	Screw - Hex. Socket Hd.	22	1	8
3274-70	Screw - Hex, Socket Hd.	13	1	2
3274-80	Screw - Cap Hex. Hd.	17	1	3
3274-84	Screw - Cap, Hex. Hd.	16	58	4
3274-91	Screw - Hex. Socket Hd.	20	4	3
3284-3	Pin - Groove	19	15	1
3289-20	Screw - Flat Hd.	8	16	2
3290-277	Nut - Speed	17	22	6
3290-317	Washer - Wave	3	18	2
3290-317	Washer - Wave	4	32	2
3290-317	Washer - Wave	6	40	2
3290-357	Nut - Flange Lock	27	8	3
3290-378	Tie - Cable	21	*	3
3290-378	Tie - Cable	27	*	2
3290-378	Tie - Cable	32	*	15
3290-379	Tie - Cable	32	*	3
3290-379	Tie - Cable	6	47	1
3296-4	Nut - Lock	10	22	2
3296-16	Nut - Lock	1	21	2
3296-16	Nut - Lock	22	24	9
3296-16	Nut - Lock	20	34	3
3296-16	Nut - Lock	12	49	1
3296-23	Nut - Lock	8	19	8
3296-27	Nut - Lock	22	11	4
3296-29	Nut - Lock	19	8	5
3296-29	Nut - Lock	28	14	4
3296-29	Nut - Lock	10	16	2
3296-29	Nut - Lock	6	29	1
3296-39	Nut - Lock	1	20	1
3296-42	Nut - Lock	19	11	1
3296-42	Nut - Lock	8	25	8
3296-56	Nut - Lock	21	23	2
3296-59	Nut - Lock	10	15	4
3296-59	Nut - Lock	2	34	8
3296-67	Nut - Lock	30	25	1
32103-12	Nut - Wing	20	14	2
32104-76	Screw - Self Tapping	20	1	5
32120-8	Ring - Retaining	5	10	1
32120-76	Ring - Snap	21	5	2
32121-4	Pin - Roll Slotted	21	21	2
32121-6	Pin - Roll	10	39	1
32121-6	Pin - Roll	2	41	1
32121-16	Pin - Roll	19	14	1
32121-35	Pin - Roll	1	32	8
32121-45	Pin - Roll	10	28	1
32121-51	Pin - Roll	10	43	1
32122-35	Screw - Truss Hd.	35	8	1
32128-20	Nut - Flange Lock	11	24	3
32128-20	Nut - Flange Lock	10	27	1
32128-20	Nut - Flange Lock	28	29	2
32128-20	Nut - Flange Lock	27	31	8
32128-20	Nut - Lock, Flange	35	3	1
32128-33	Nut - Flange Lock	1	18	2
32128-33	Nut - Lock	8	32	1
32136-9	Nut - Hex. Slotted	30	34	1
32141-111	Nut Flange Lock	1	11	1
32144-4	Screw - Hex. Washer Hd.	27	17	4
32144-4	Screw - Thread Forming	19	37	1
32144-21	Screw - Round Hd.	17	8	2
32148-6	Insert - Threaded	1	19	8
32149-2	Nut - Keps	20	37	2
32151-41	Ring - Retaining	33	9	1
32152-10	Nut - Hex.	7	2	1
32152-10	Nut - Lock	5	2	1
340-1	Fitting - Hydraulic Straight	17	30	4
340-4	Fitting - Hydraulic Straight	11	8	1
340-14	Fitting - Hydraulic 45°	8	14	4
340-16	Fitting - Hydraulic 90°	11	33	1
340-18	Fitting - Hydraulic 90°	11	13	1
340-77	Fitting - Hydraulic 90°	32	10	2
340-77	Fitting - Hydraulic 90°	11	14	2
340-82	Fitting - Hydraulic 90°	28	5	1
340-87	Fitting - Hydraulic 45°	28	3	3
340-87	Fitting - Hydraulic 45°	32	15	1
340-98	Fitting - Hydraulic 90°	32	14	2
340-101	Fitting - Hydraulic 45°	32	6	1
340-103	Fitting - Hydraulic 45°	6	12	2
340-105	Elbow - 90° Adjustable	21	7	3
340-105	Fitting - Hydraulic 90°	28	26	1
340-105	Fitting - Hydraulic 90°	20	42	1
340-132	Fitting - Hydraulic 90°	30	29	2
340-137	Fitting - Hydraulic 45°	11	44	1
340-138	Fitting - Hydraulic 45°	11	12	2
353-301	Poppet	13	27	1
353-302	O-Ring	15	7	3
353-302	O-Ring	13	10	3
353-303	Ring - Backup	15	8	6
353-303	Ring - Backup	13	9	6
353-304	Spring	13	28	1
353-305	O-Ring	15	5	5
353-305	O-Ring	13	8	4
353-306	Ring - Backup	15	4	5
353-306	Ring - Backup	13	7	4
353-328	Washer - Shim	13	15	A/R
353-328	Washer - Shim	15	32	A/R
353-329	Washer - Shim	13	16	A/R
353-329	Washer - Shim	15	33	A/R
353-330	Washer - Shim	13	17	A/R
353-330	Washer - Shim	15	34	A/R
353-331	O-Ring	13	29	1
353-334	Cap - Relief	13	19	2
353-334	Cap - Relief	15	36	2

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353–392	Seal – Relief Poppet PTFE	13	13	2
353–392	Seal – Relief Poppet PTFE	15	30	2
353–398	Spring	15	35	1
353–417	Collar Spring	15	20	2
353–417	Collar Spring	13	40	2
353–481	Plug – Load Check	15	2	2
353–481	Plug – Load Check	13	5	3
353–483	Body – Anticavitation	16	61	1
353–484	Retainer – Ball	16	62	1
353–529	Plate Seal	15	22	1
353–530	Spring	15	23	1
353–531	Poppet Assembly	15	31	2
353–531	Poppet Assy.	13	14	2
353–550	Plug – Hydraulic	24	38	1
353–550	Plug Assembly	15	13	1
353–559	Retainer – Boot	13	22	2
353–559	Retainer – Boot	15	47	3
353–560	Washer – Breather	13	23	2
353–560	Washer – Breather	16	48	3
353–563	Fitting – Hydraulic Straight	20	25	1
353–575	Boot – Dust Cap	13	21	2
353–575	Boot – Dust Cap	15	46	3
353–579	Spring	13	45	1
353–586	Bearing – Needle	33	13	4
353–588	Cover – Motor	33	3	1
353–591	Block – Anti–Extrusion	33	8	1
353–592	Drive Shaft Assembly	33	16	1
353–593	Idler Gear Assembly	33	7	1
353–594	Seal Assembly	33	14	1
353–595	Plate – Wear	33	15	1
353–596	O–Ring	33	17	1
353–597	Bridging – Insert	33	5	1
353–598	Gasket – Insert	33	6	1
353–599	Pin – Dowel	33	4	2
353–600	Washer	33	2	4
353–601	Screw – Hex Socket Hd.	33	1	4
353–642	Relief – RC Mod.	14	*	2
353–642	Relief – RC Mod. Assembly	16	*	1
353–668	Plate – Cap, Cover RH	15	11	1
353–721	Plug	13	35	2
353–727	Bonnet	13	2	1
353–728	Sleeve	14	49	1
353–729	Spud – Detent	13	3	1
353–730	Spring	15	42	1
353–731	Ball	15	43	1
353–732	Sleeve – Detent	14	52	1
353–733	Spacer – Bonnet	13	4	1
353–733	Spacer – Bonnet	15	19	2
353–737	Ball	16	63	1
353–758	Seal – O–Ring	13	31	1
353–760	Body Relief	13	30	1
353–763	Cap – Adjustment	13	44	1
353–766	Relief WH (2000) PSI Assy.	14	*	1
353–768	Section #1 Complete	14	*	1
353–770	Section #3 Assembly	16	*	1
353–772	Left End Cover	13	34	1
353–777	Body – Motor	33	12	1
353–780	Bonnet – R. Detent	13	42	1
353–780	Positioner – R. Detent (Out)	14	*	1
353–780	Spud – Detent Out	14	50	1
353–808	Collar – Spring	15	24	1
353–829	Collar Spool	15	26	1
353–830	O–Ring	15	25	1
353–831	Spring	15	21	1
353–833	Positioner Assembly	16	*	1
353–834	Section #5 Assembly	16	*	1
353–835	Seals – Section Set	14	*	1
353–835	Seals – Section Set	16	*	1
353–837	Section #2 Complete	14	*	1
353–839	Positioner – DI (SPL) Assy.	14	*	1
353–840	Position – DI (SP) Assy.	16	*	1
353–841	Position – Spool Assembly	16	*	1
353–844	Plug Series	16	55	1
353–845	Sleeve – Detent	15	41	1
353–846	Spud – DI (SPL)	15	40	1
353–847	Bonnet (SPL)	15	38	1
353–848	O–Ring	15	14	1
353–849	Sleeve	15	39	1
353–850	O–Ring	16	56	1
353–851	Body – Relief CP–RC Mod.	13	12	1
353–851	Body – Relief CP–RC Mod.	15	29	2
353–853	Bolt – Hex Hd.	15	10	3
353–854	Boot – Spool Assembly	14	*	2
353–854	Boot – Spool Assembly	16	*	3
353–855	Spring	13	18	2
353–855	Spring	15	44	1
353–884	Key – Woodruff	29	19	4
353–886	Ring – Retaining	29	18	2
353–922	Seal – Ring	29	23	10
353–923	Bearing Plate Assembly	29	26	2
353–952	Ring – Backup	13	32	1
353–953	Plug Assembly	16	54	1
353–957	Seal – Lip	15	15	6
353–957	Seal – Lip	13	26	4
353–958	Ring – Backup	15	16	1
353–964	Gear – 66B	29	21	1
353–967	Gear – 33B	29	24	6
353–969	Plate – Gear 33B	29	25	3
353–971	Plate – Gear 66B	29	14	1
354–1	Shaft – Drive	29	20	1
354–2	Body Assembly	29	15	1
354–3	Bearing Plate Assembly	29	22	1
354–4	Bearing Plate Assembly	29	28	1
354–5	Adapter – Splined	29	27	1
354–6	Plate – Gear 18B	29	30	1
354–7	Cover Assembly	29	31	1
354–8	Drive Shaft – Gear Assy.	29	29	1
354–9	Idler Shaft – Gear Assy.	29	5	1
354–10	Idler Shaft – Gear Assy.	29	12	1
354–11	Pin – Dowel	29	4	2
354–12	Pin – Dowel	29	6	2
354–13	Pin – Dowel	29	11	4
354–14	Pin – Dowel	29	13	2
354–15	Seal – Shaft	29	17	1
354–16	Washer – Lock	29	2	4
354–17	Stud – Threaded	29	3	4
354–25	Section #4 Assembly	16	*	1
354–26	Bonnet	15	27	2
354–28	Screw – Hex, Socket Hd.	15	28	2
354–29	Plate – Thrust	14	48	1
354–35	Gasket	29	32	1
354–120	Fitting – Hydraulic 90°	24	27	3
354–122	Disc – Seal	16	52	1
354–129	Anticavitation Check Assy.	16	*	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'sproducts 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 SERIAL NUMBERS

The Greensmaster 3100 has two identification numbers; a model number and a serial number. The two numbers are stamped on a platewhich is located on the main frame under the seat. In any correspondence concerning the Grensmaster 3100, 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 3100.
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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MAINTENANCE RECORD

Date								

MAINTENANCE RECORD

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