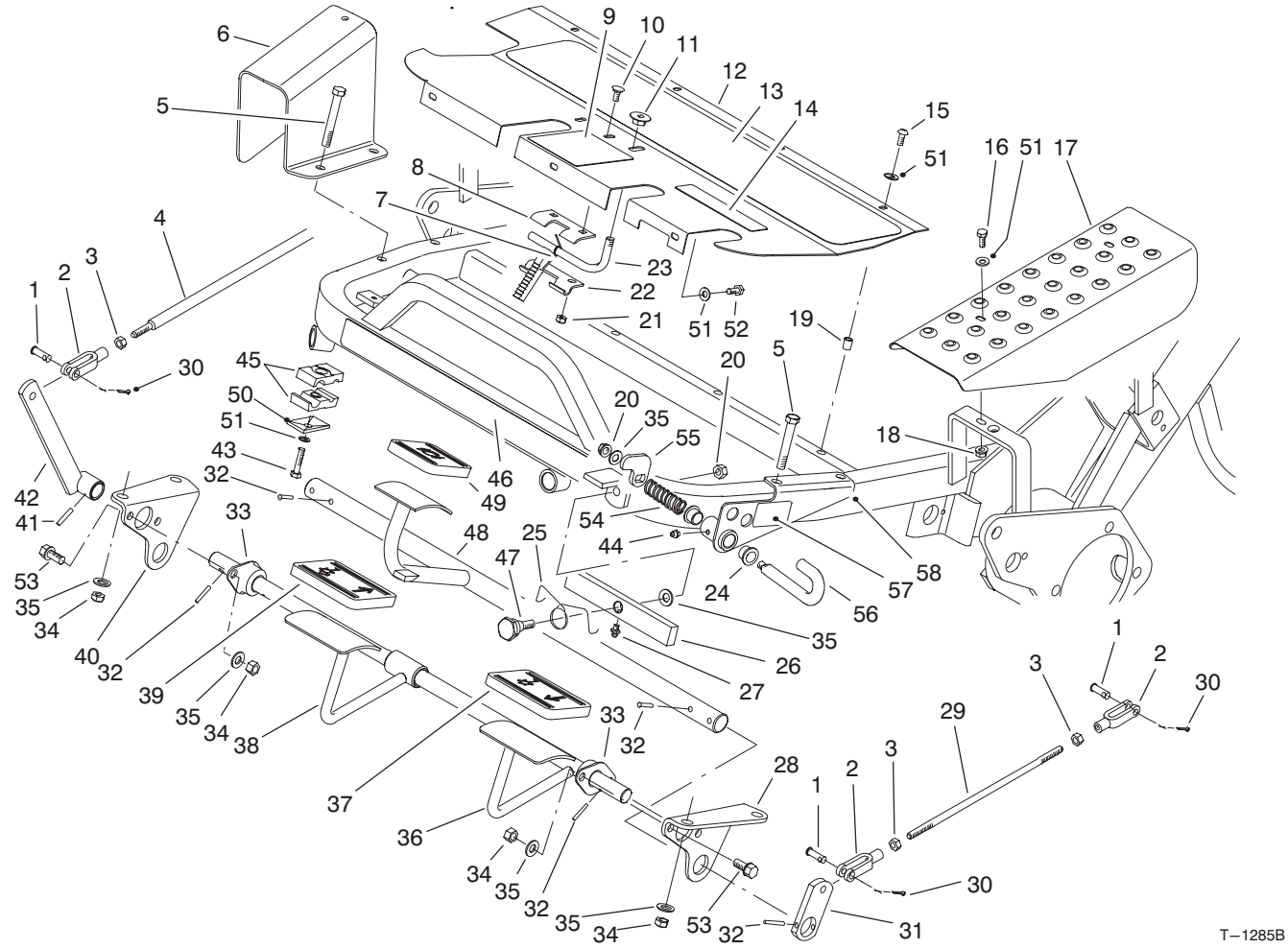
FORM NO. 3318–322 Rev. A

TORO®

MODEL NO. 04353–60300 & UP

PARTS CATALOG

GREENSMASTER® 3100
TRACTION UNIT



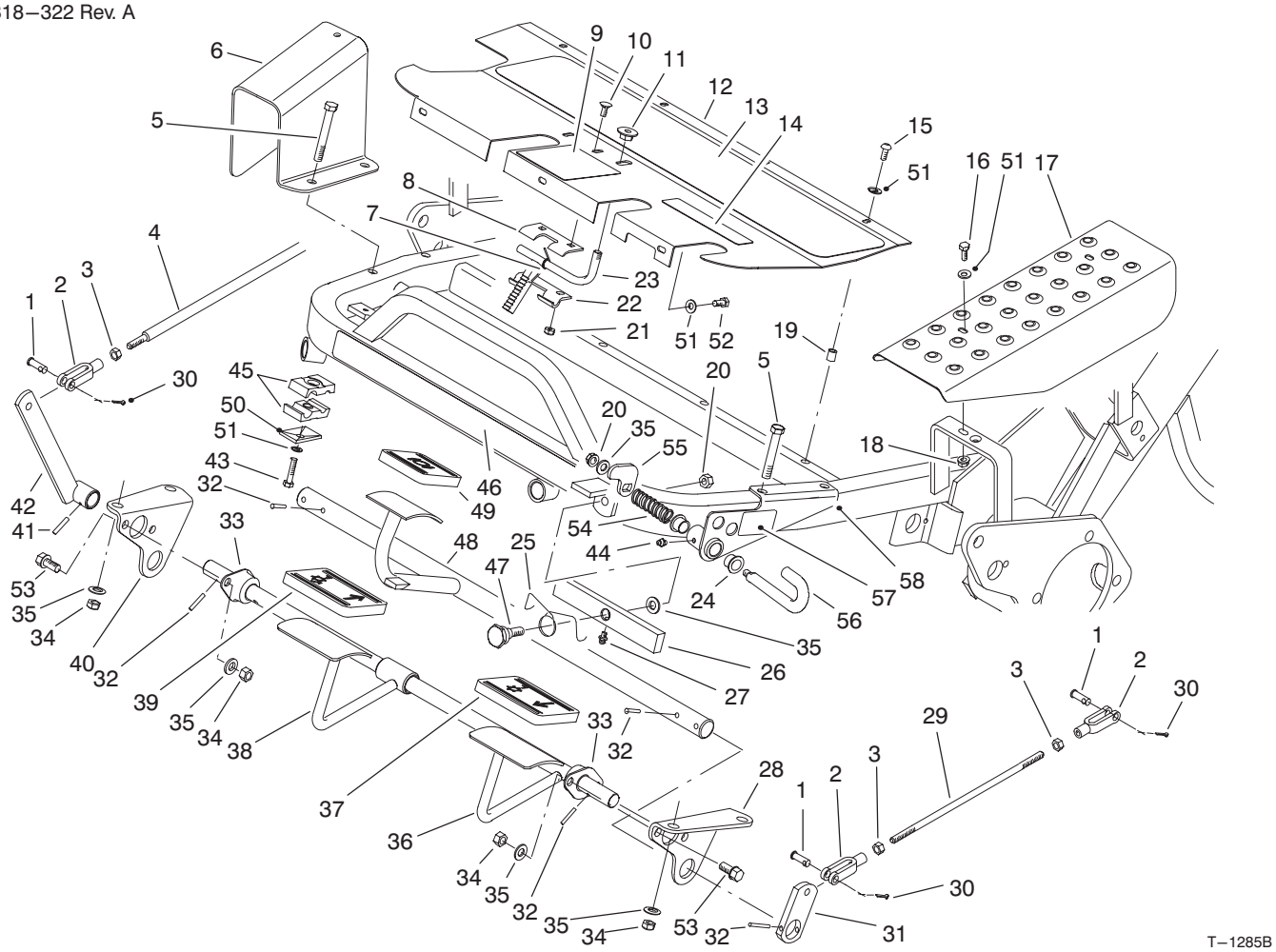
CONTROL PEDAL ASSEMBLY

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	93–8062	Decal – Parking Brake	1
9	83–2480	Decal – Parking Brake (Japanese)	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	93–8075	Decal – Mow/Lift	1
14	83–2530	Decal – Mow/Lift (Japanese)	1

Ref. No.	Part No.	Description	No. Used
15	3274–31	Screw – Hex. Socket Hd.	4
16	321–4	Screw – Hex. Flange Hd.	2
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	2
21	3296–16	Nut – Lock	2
22	10–7890	Hinge – Lower	1
23	10–7850	Latch – Parking Brake	1
24	3–1506	Bushing	2
25	83–0080	Spring – Torsion	1
26	83–0060	Lift – Pivot	1
27	302–5	Fitting – Grease	1
28	88–9640	Lift Pivot Bracket L.H.	1
29	27–2270	Rod – Brake Adjusting	2
30	3272–6	Pin – Cotter	5
31	10–8100	Strap – Brake Shaft	2

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TPS

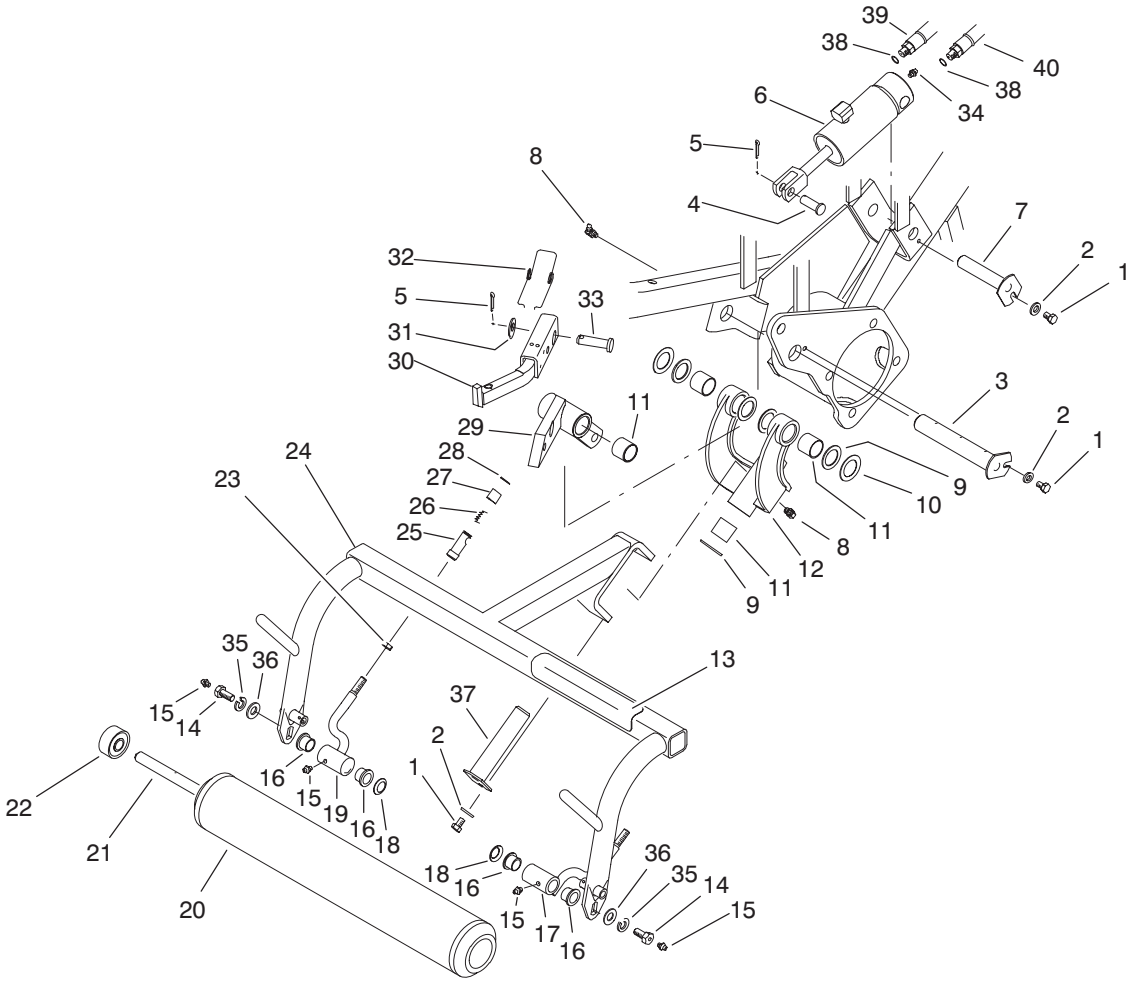


CONTROL PEDAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	32121–35	Pin – Roll	8
33	27–2320	Bearing – Flange	2
34	3296–59	Nut – Lock	8
35	3256–38	Washer – Flat	6
36	88–9660	Shaft – Cutting Control	1
37	93–7631	Pad – Lift	1
38	83–0140	Pedal – Mow	1
39	93–7630	Pad – Mow	1
40	88–9630	Lift Pivot Bracket R.H.	1
41	32121–6	Pin – Roll	1
42	49–6200	Lever – Cutting Control	1
43	321–11	Screw – Cap Hex. Hd.	1
44	302–5	Fitting – Grease	1
45	56–7970	Clamp Half – Tube	2
46	88–9620	Decal – Greensmaster 3100	1

Ref. No.	Part No.	Description	No. Used
47	83–2590	Bolt – Shoulder	1
48	83–0160	Shaft – Brake	1
49	93–7629	Pad – Brake	1
50	69–9760	Plate – Cover	1
51	3256–1	Washer – Flat	9
52	321–3	Screw – Cap Hex. Hd.	3
53	3234–1	Screw – Cap Hex. Hd.	4
54	76–0410	Spring	1
55	93–9904	Arm – Lock Out, Mow	1
56	93–9903	Pin – Lock Out, Mow	1
57	93–9898	Decal – Lock	1
58	93–9901	Bracket – Lock Out, Mow	1
*	37–8130	Basket – Grass	3
*	65–8320	Bar – Gauge	1

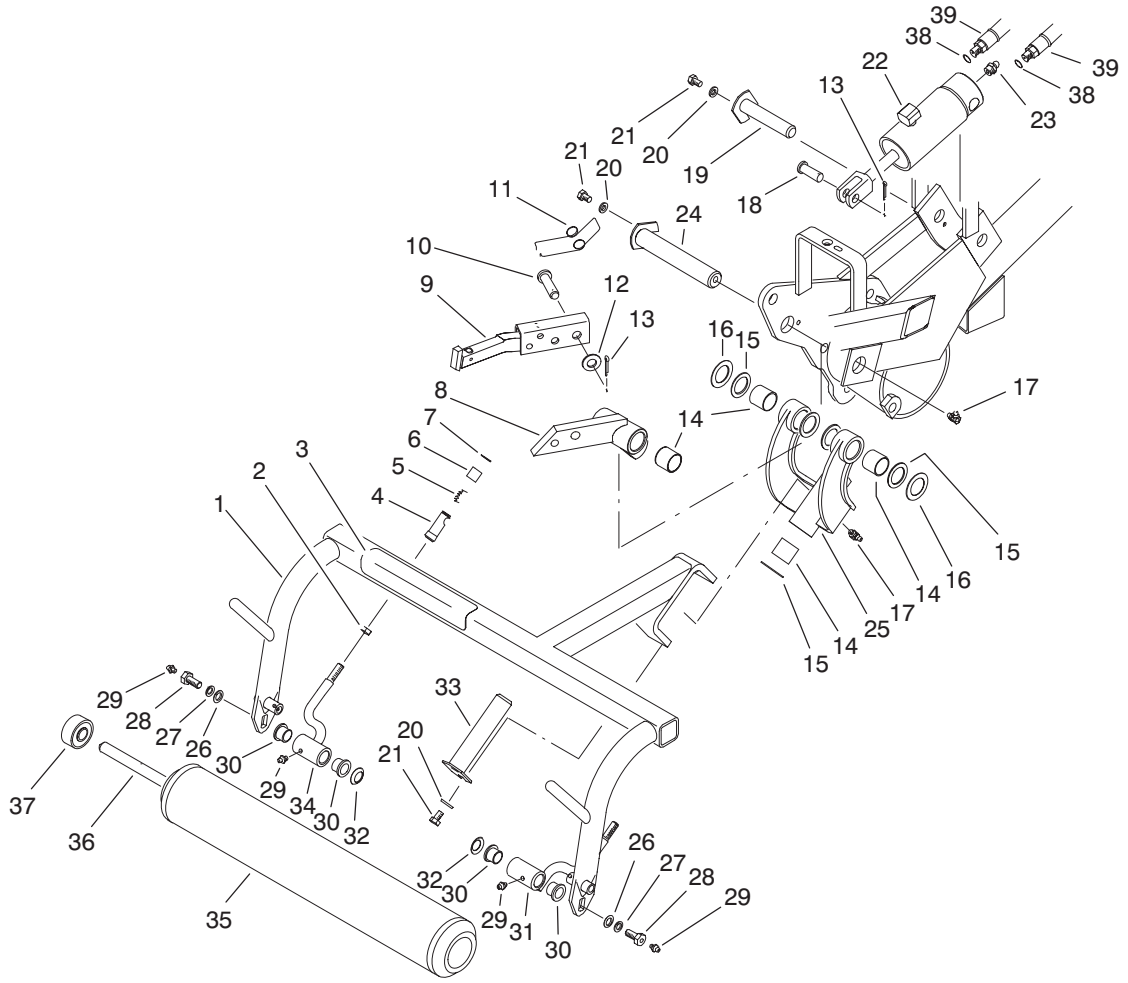
*Not Illustrated



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	3
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	93−8064	Decal − Danger	1
13	84−6560	Decal − Danger (Japanese)	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
21	21−8470	Shaft − Roller	1
22	251−141	Bearing − Ball	2
23	3220−3	Nut − Jam	2
24	92−9176	Frame − Pull L.H.	1
25	94−2959	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	94−5586	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

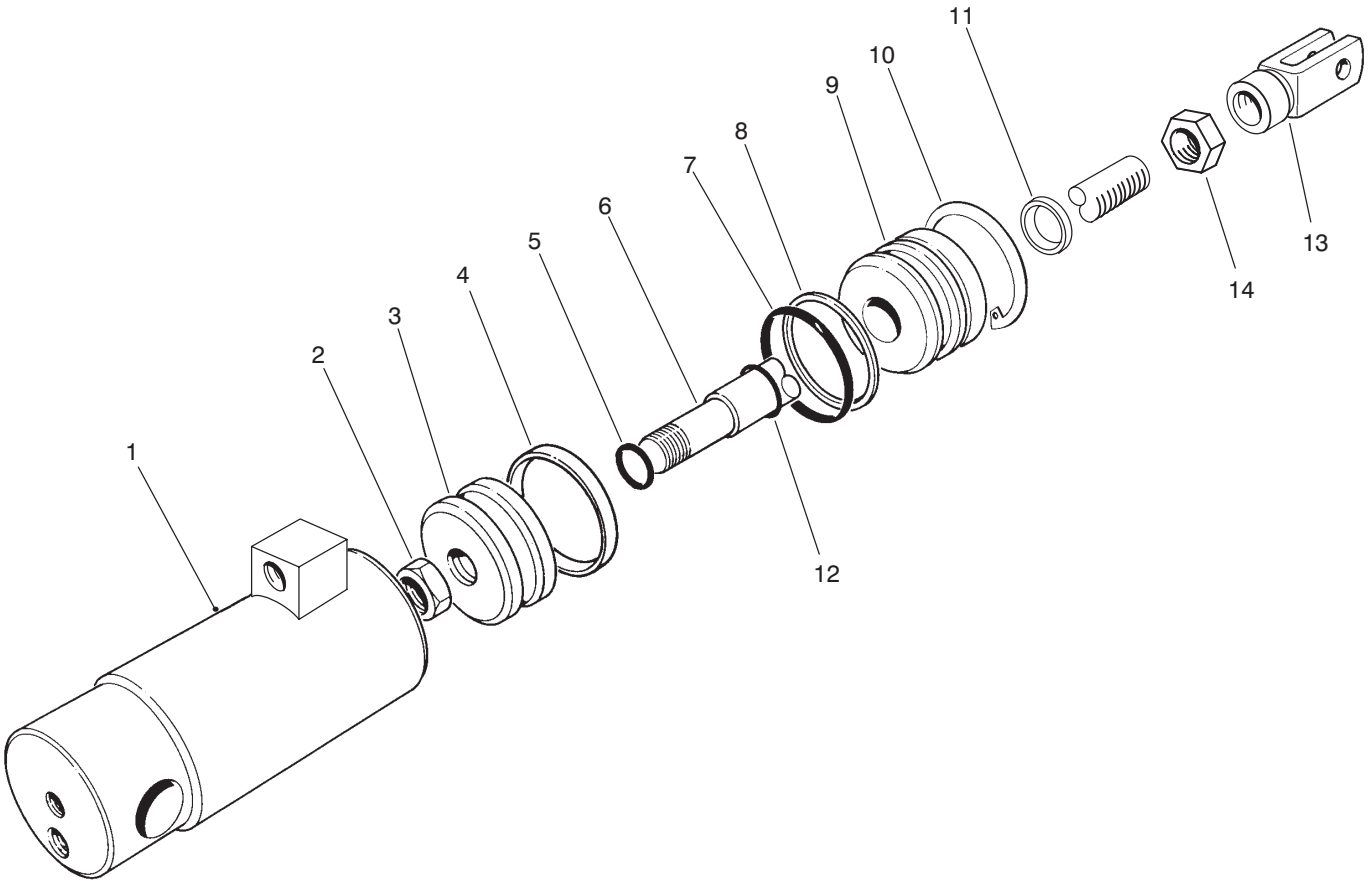


T–1284

PULL FRAME ASSEMBLY R.H.

Ref. No.	Part No.	Description	No. Used
1	92–9177	Frame – Pull R.H.	1
2	3220–3	Nut – Jam	2
3	93–8064	Decal – Danger	1
3	84–6560	Decal – Danger (Japanese)	1
4	94–2959	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	94–5588	Bar – Lift, R.H.	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

Ref. No.	Part No.	Description	No. Used
22	83–2580	Hydraulic Cylinder Assy.	1
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	92–9767	Hose – Hydraulic (Incl. Ref. #38)	2



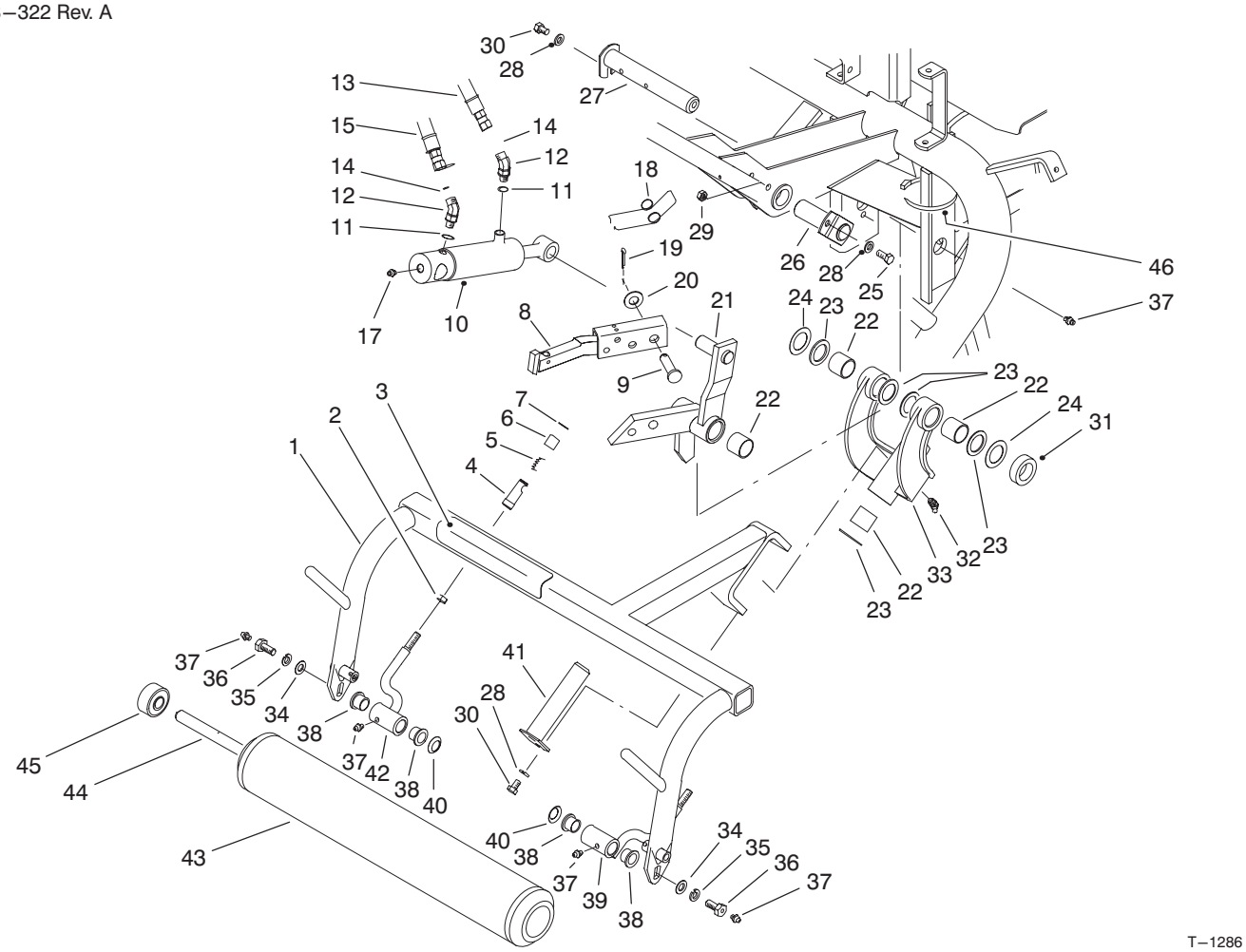
T–1246

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

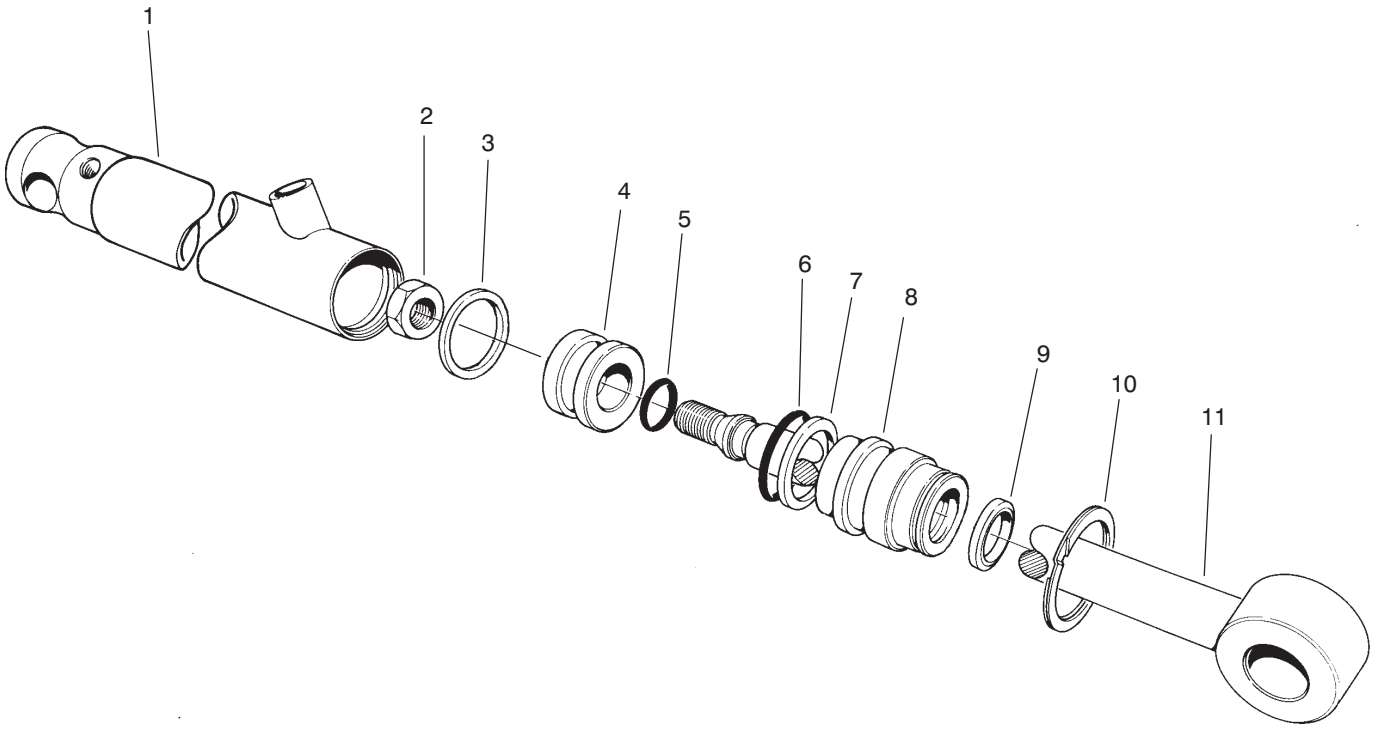
*Not Illustrated



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	93–8064	Decal – Danger	1
3	84–6560	Decal – Danger (Japanese)	1
4	94–2959	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

Ref. No.	Part No.	Description	No. Used
25	322–3	Screw – Cap Hex. Hd.	1
26	68–5560	Pin – Cylinder Pivot	1
27	27–2550	Pin – Pivot	1
28	3256–23	Washer – Flat	3
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	3290–379	Tie – Cable	1



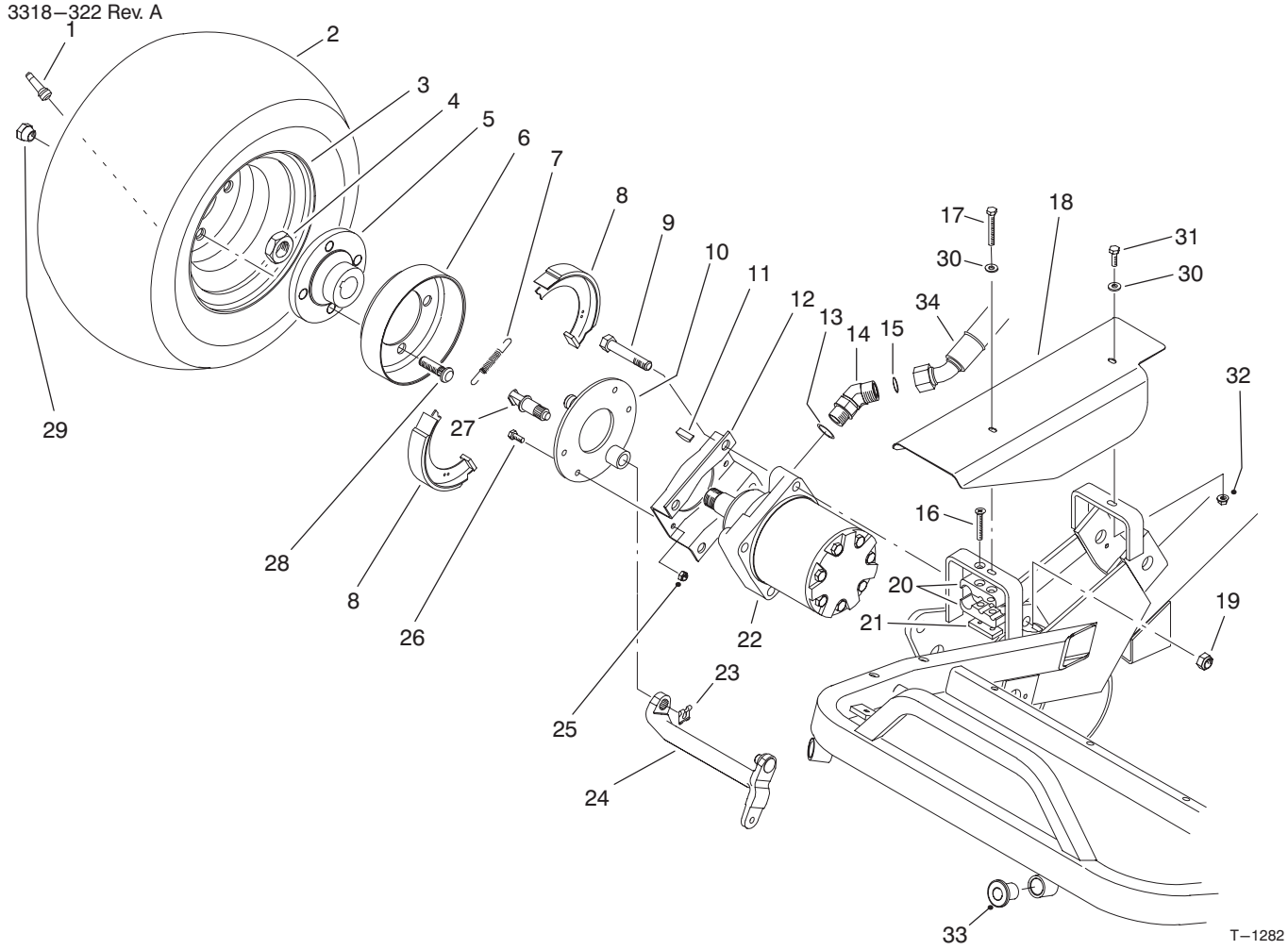
T–0640

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
4	70–2780	Piston	1
5		Seal – O–Ring	1
6		Seal – O–Ring	1
7		Washer – Back–Up	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

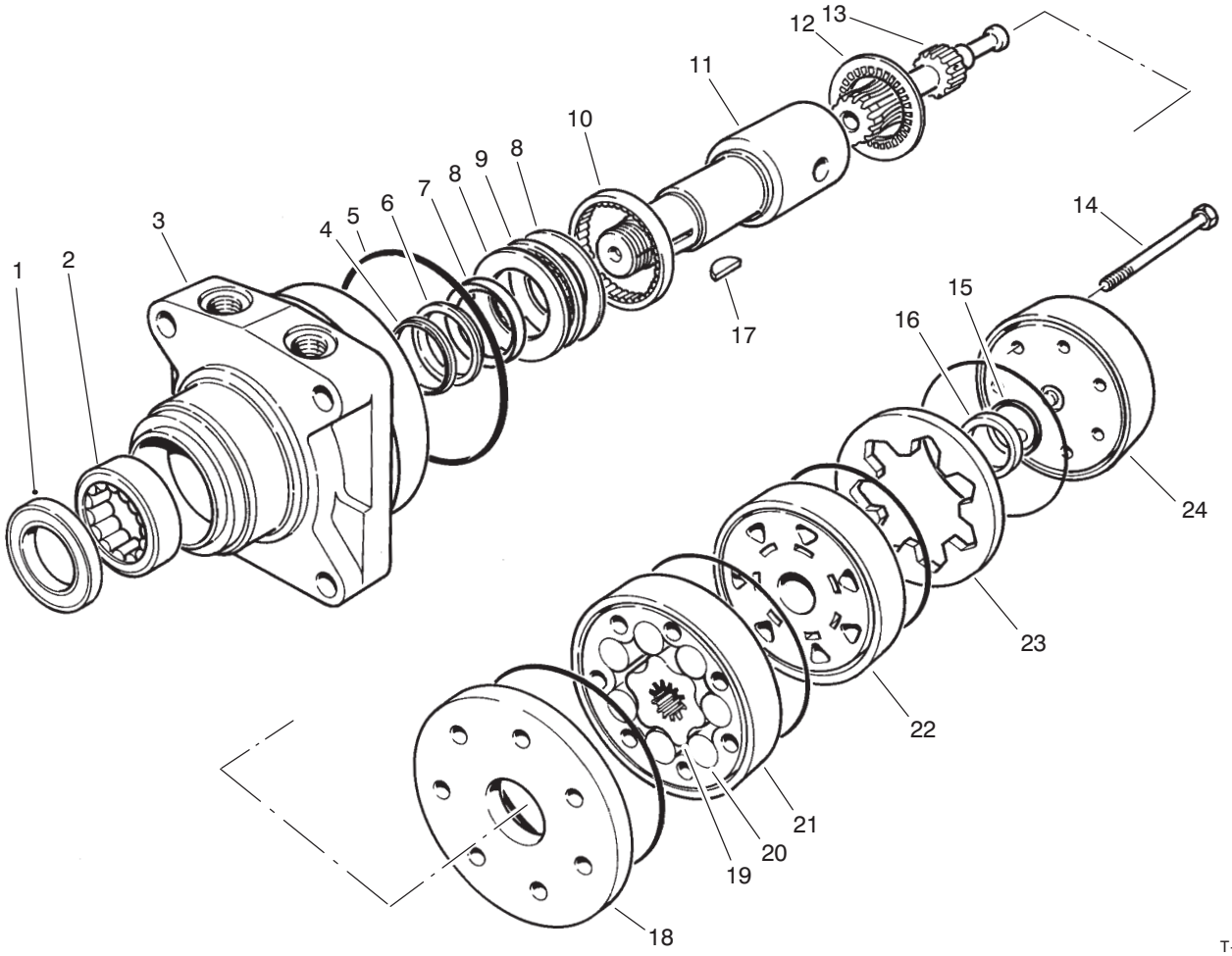


FRONT WHEEL & BRAKE ASSEMBLY

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	32108–100	Screw – Flat Hd.	1
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	92–9199	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



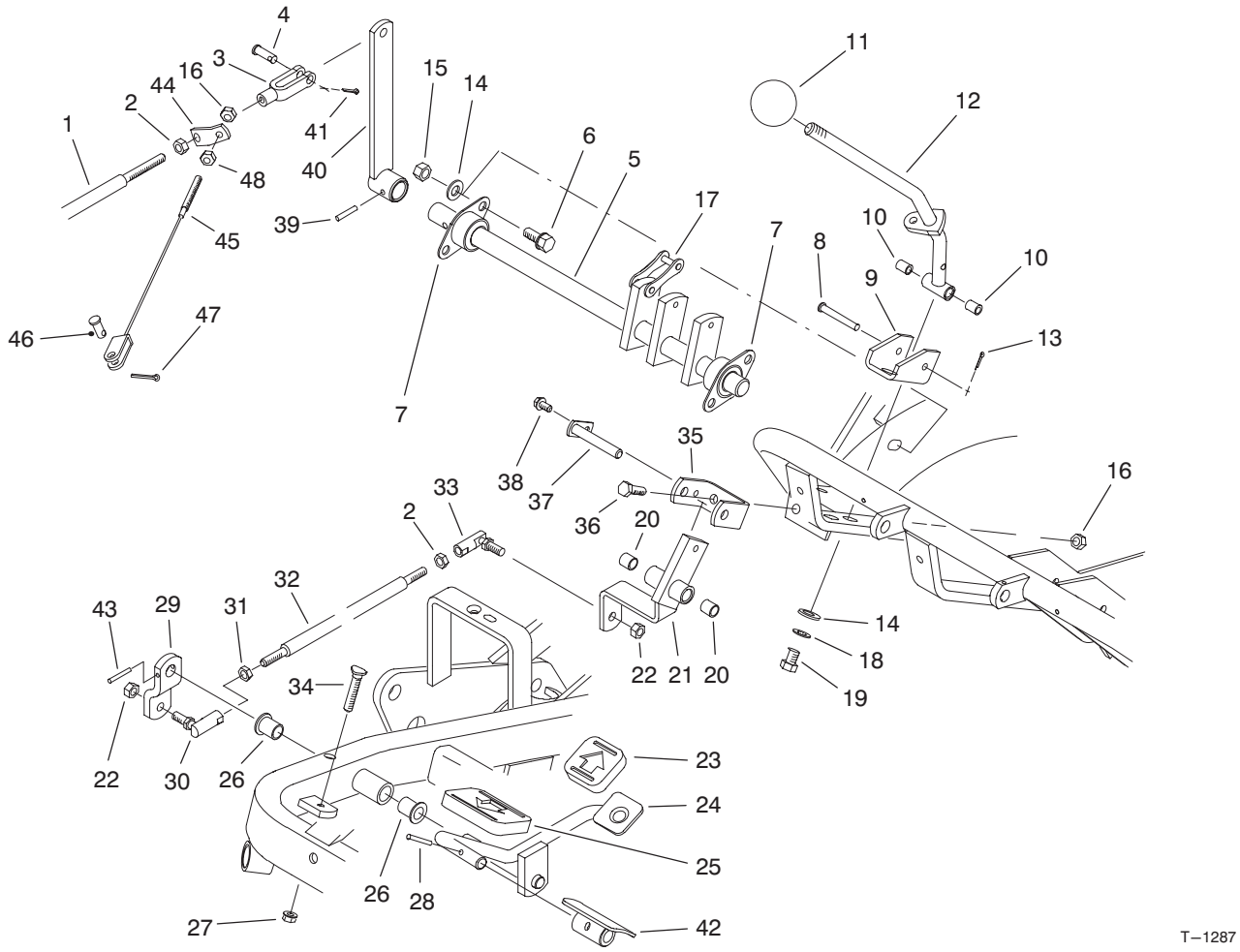
T–0983

HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 92–9199

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	92–9761	Link – Drive	7
14	92–9762	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
*	92–9763	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

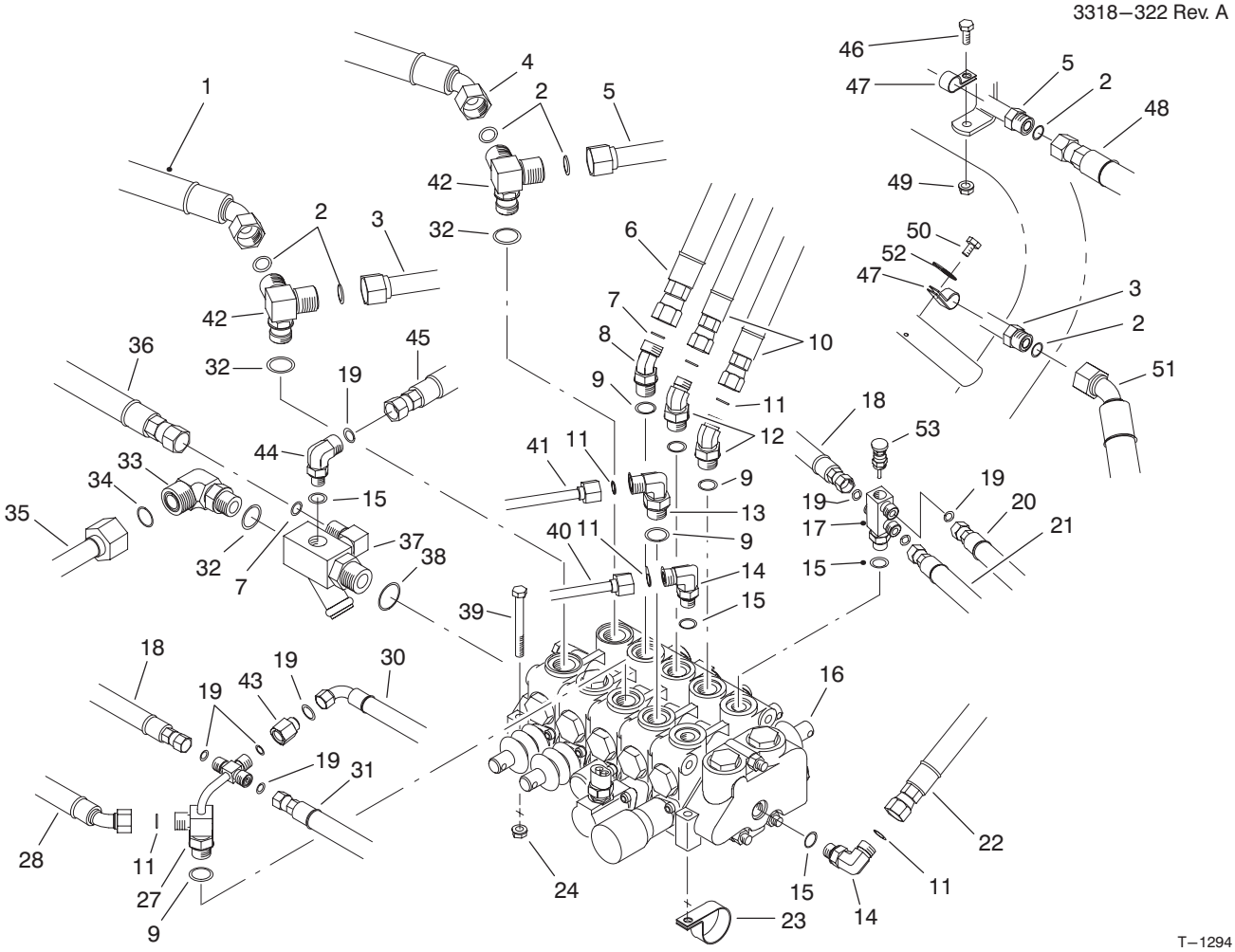


T–1287

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	93–9934	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	3
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	Assy. – Pivot, Traction (Incl. Ref. #20)	1
22	3296–4	Nut – Lock	2
23	74–9110	Pad – Reverse Pedal	1

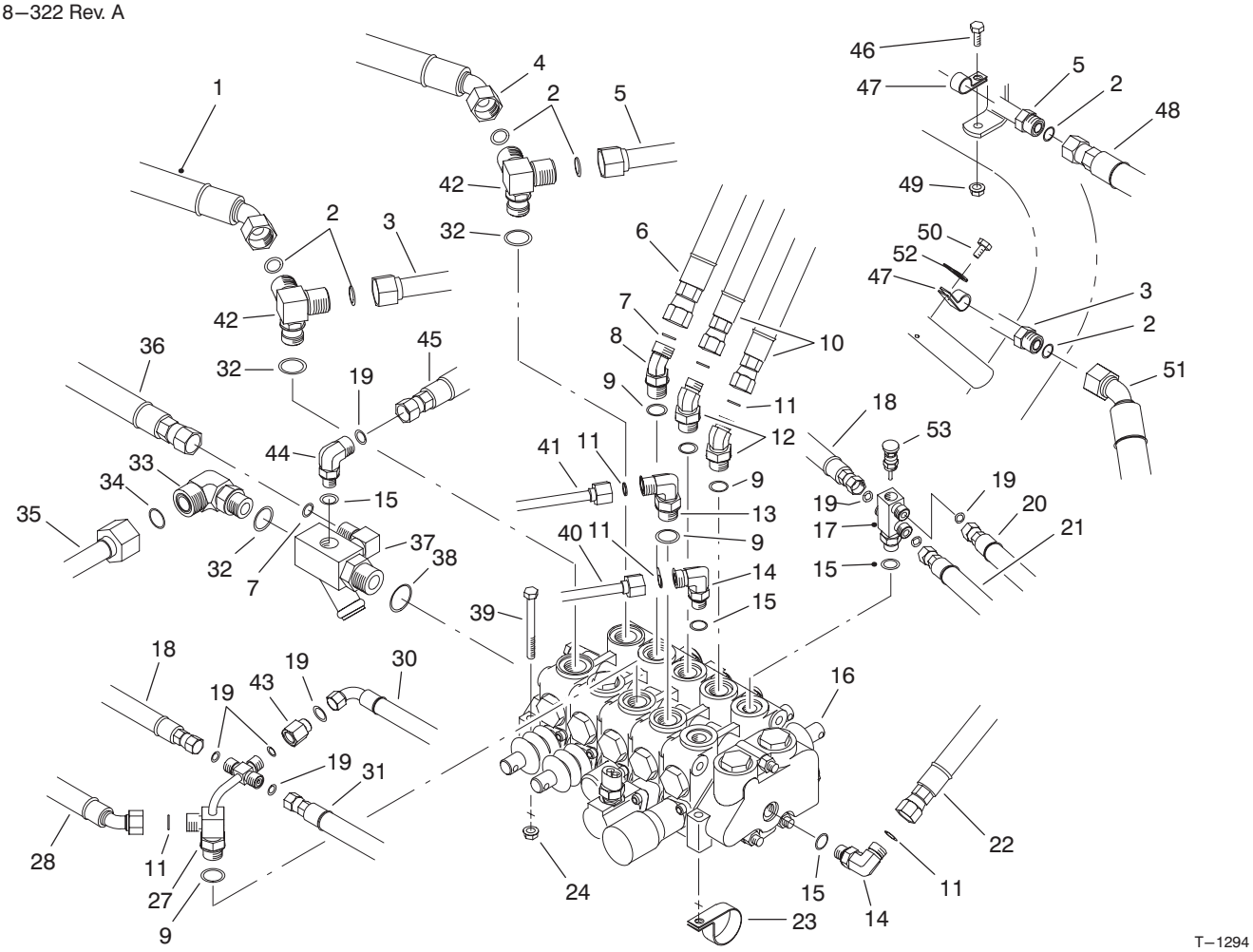
Ref. No.	Part No.	Description	No. Used
24	83–0540	Pedal – Traction	1
25	74–9100	Pad – Forward Pedal	1
26	256–155	Bushing – Flange	2
27	32128–20	Nut – Flange Lock	1
28	32121–45	Pin – Roll	1
29	83–0630	Arm – Traction Pivot	1
30	2411–42	Joint – Ball L.H. Thread	1
31	3220–20	Nut – Jam L.H. Thread	1
32	83–0580	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
44	93–9936	Bracket – Cable	1
45	93–9937	Cable – Traction Return	1
46	283–62	Pin – Clevis	1
47	3272–10	Pin – Cotter	1
48	3217–6	Nut – Hex.	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	83−1180	Hose − Hydraulic	1
7	237−30	Seal − O−Ring	2
8	340−101	Fitting − Hydraulic 45° (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	4
16	84−2203	Control Valve Assembly	1
17	93−2555	Fitting − Valve Body (Incl. Ref. #15 & 19)	1
18	92−9767	Hose − Hydraulic	2
19	237−21	Seal − O−Ring	6
20	88−9700	Hose − Hydraulic	1
21	83−1690	Hose − Hydraulic	1

Ref. No.	Part No.	Description	No. Used
22	83−1170	Hose − Hydraulic	1
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
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

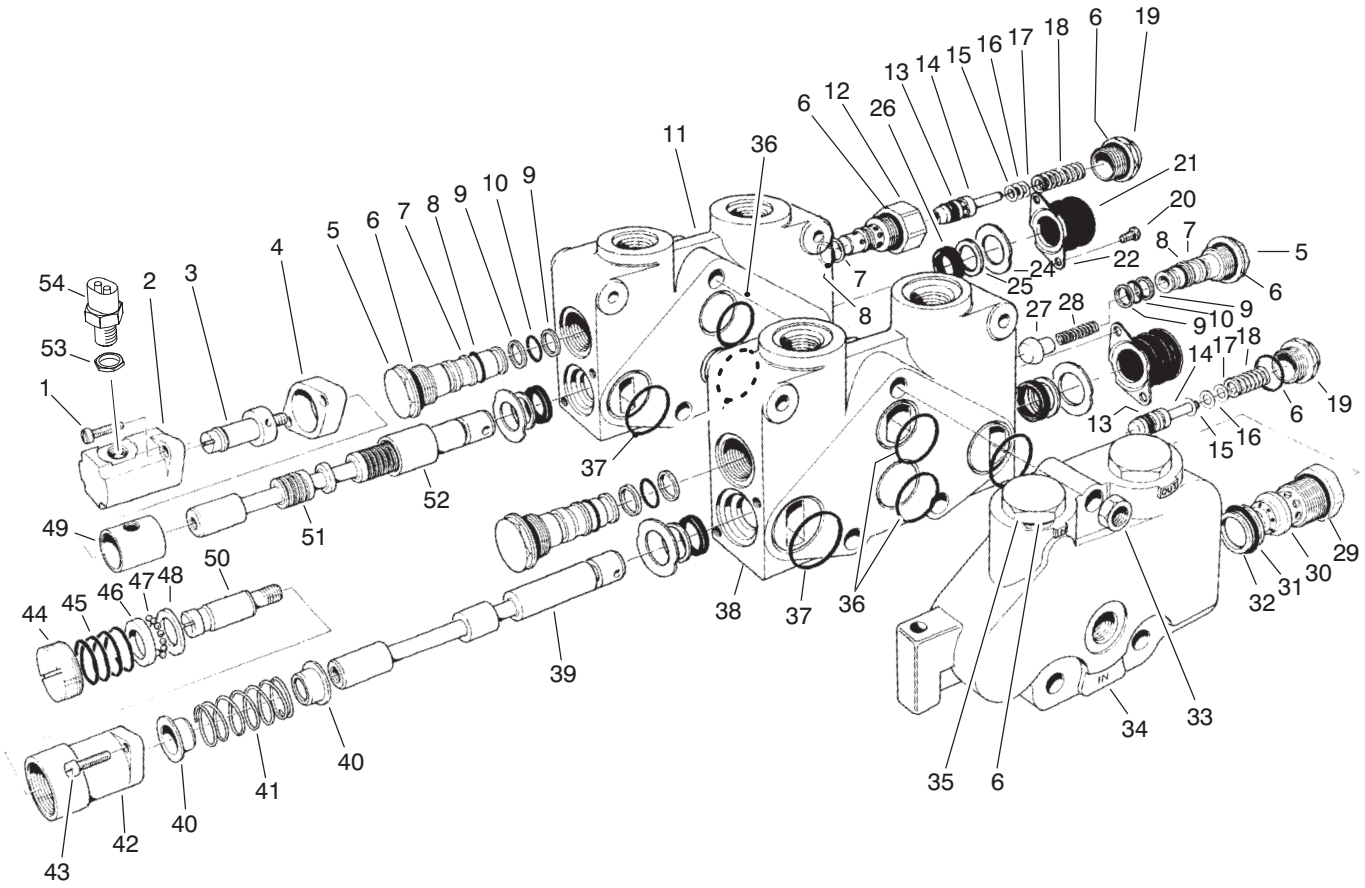


CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

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	93–2554	Valve – Needle	1
*	93–2556	Needle Valve Assembly (Incl. Ref. #15, 17, 19 & 53)	1

*Not Illustrated



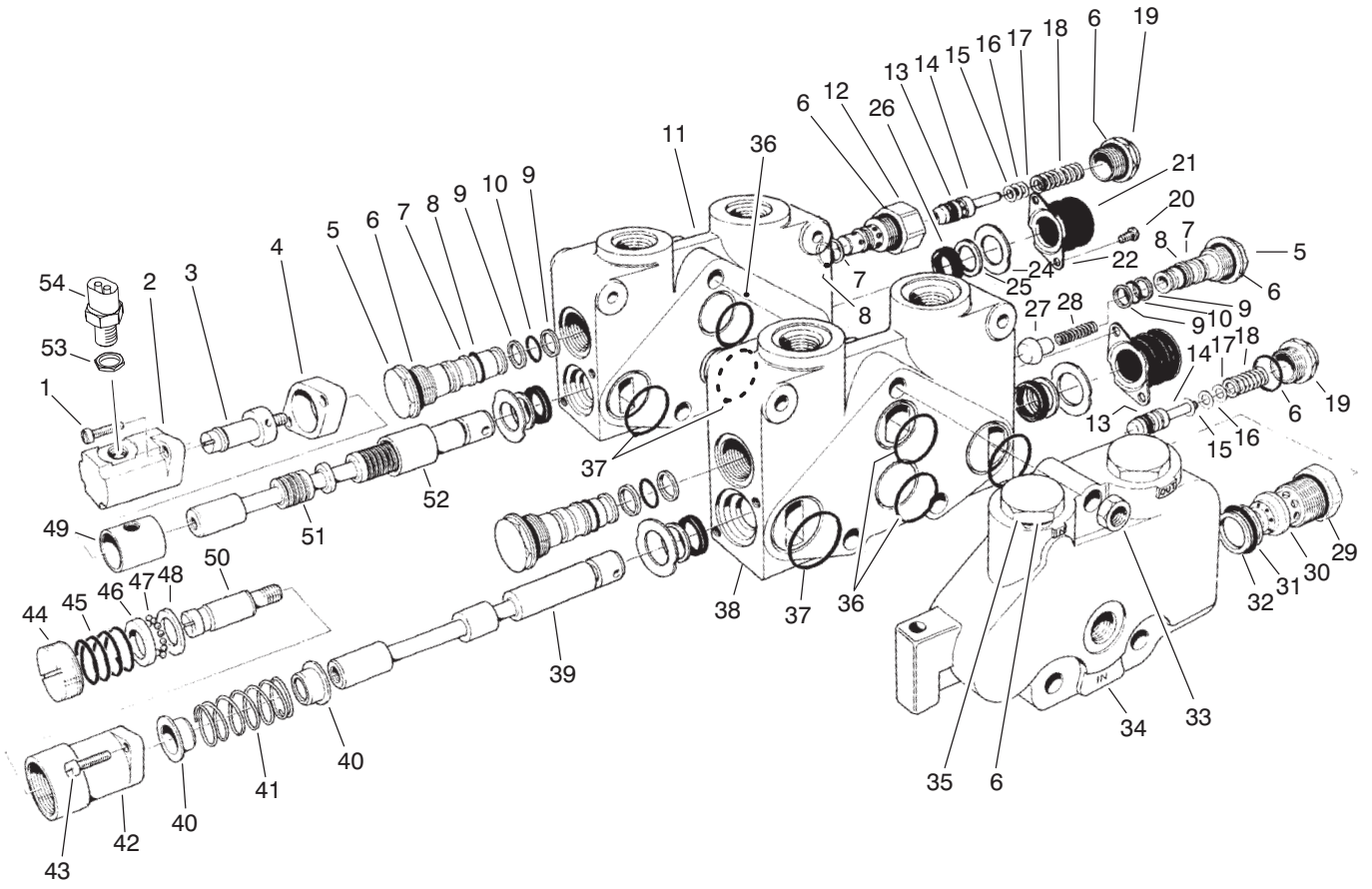
T–1318A

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

Ref. No.	Part No.	Description	No. Used
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 – Centering	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
48	354–29	Plate – Thrust	1

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



T–1318A

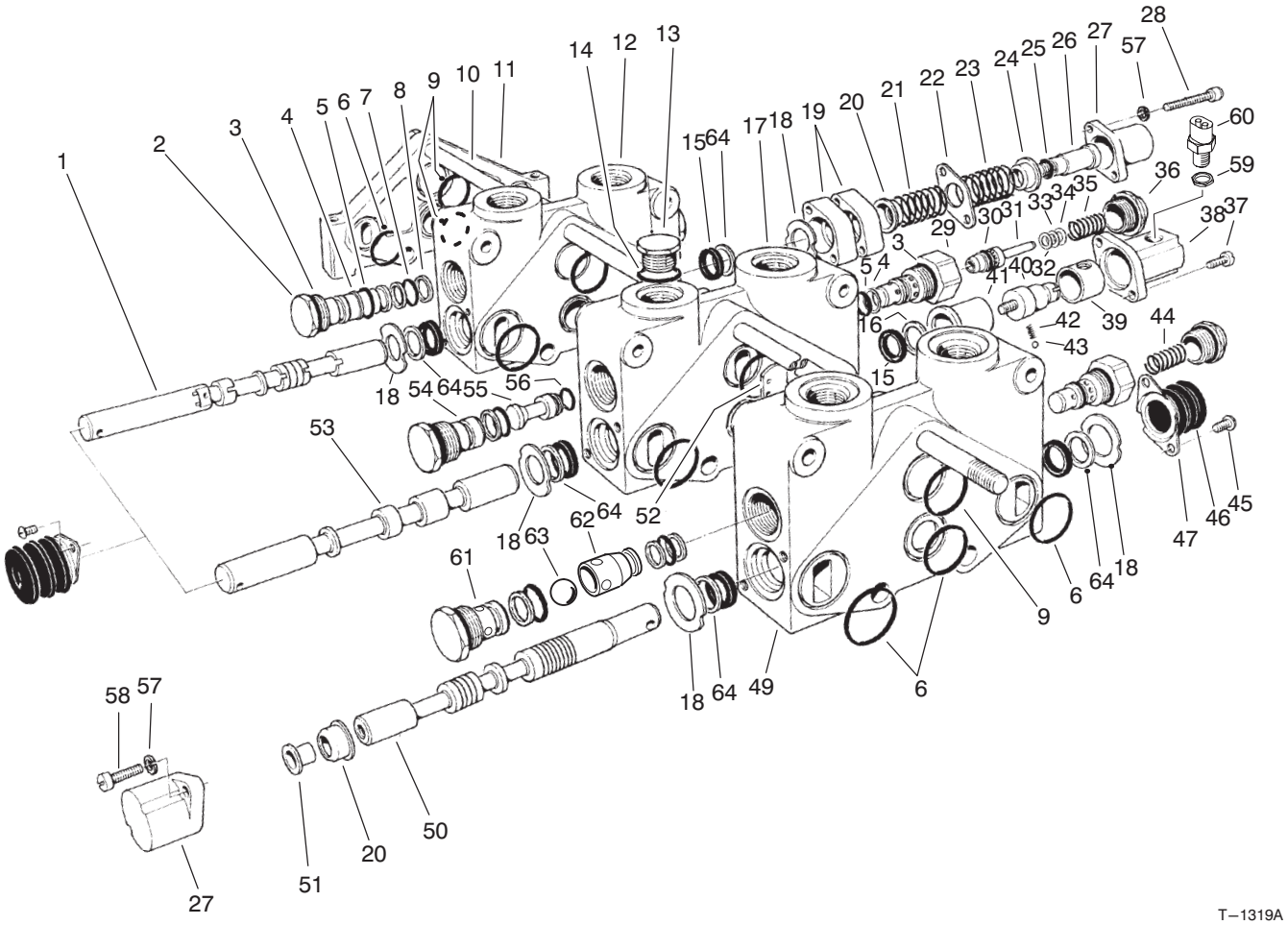
CONTROL VALVE ASSEMBLY NO. 84–2203 (Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
49	353–728	Sleeve	1
50	353–762	Spud – Detent Out (Incl. Ref. #44)	1
†51		Spool V20 3 Way F.F.	1
52	353–732	Sleeve – Detent	1
53	38–0410	Nut – Hex.	1
54	83–1890	Switch – Ball	1
*	353–766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13–19 & 29–32)	1
*	353–768	Section #1 Complete	1
*	353–837	Section #2 Complete	1
*	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
*	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 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

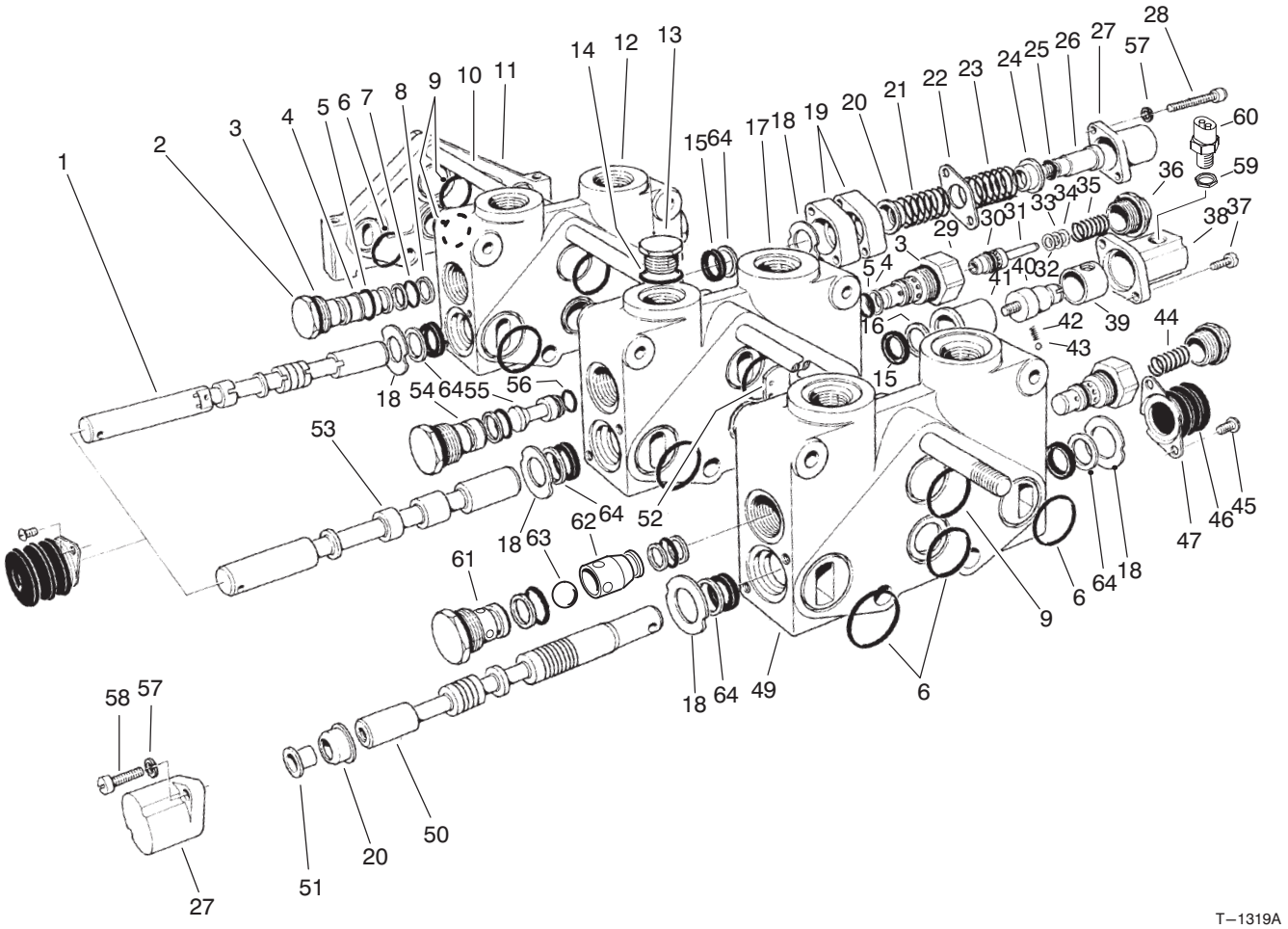


CONTROL VALVE ASSY. NO. 84–2203 (Sections 3 Thru 5)

Ref. No.	Part No.	Description	No. Used
1	94–5434	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	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	92–3148	Spring	1

Ref. No.	Part No.	Description	No. Used
24	353–808	Collar – Spring	1
25	353–830	O–Ring	1
26	94–4248	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

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



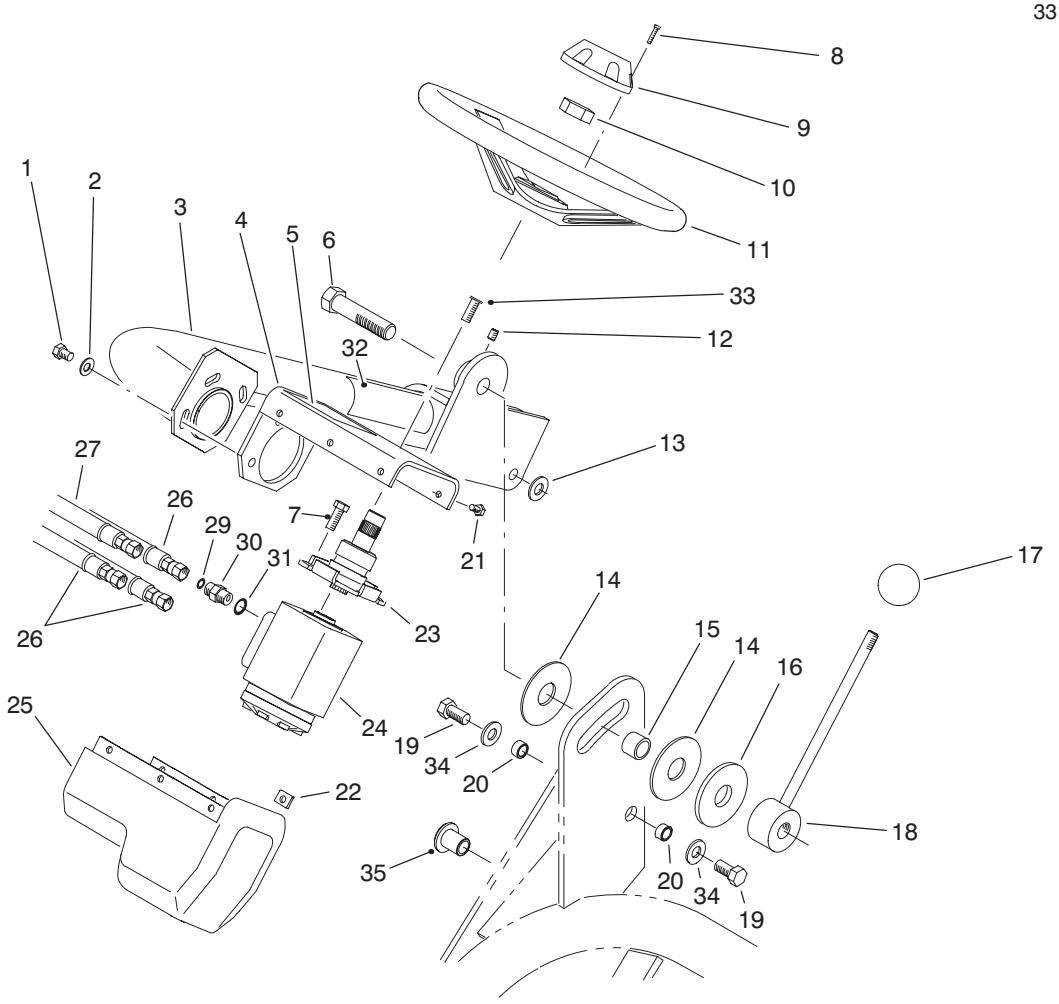
CONTROL VALVE ASSEMBLY NO. 84–2203
(Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1
51	52–5860	Collar – Spool	1
52	354–122	Disc – Seal	1
†53		Spool #4	1
54	353–953	Plug Assembly	1
55	353–844	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, 4, 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
*	354–131	Section #3 Assembly (Complete)	1

Ref. No.	Part No.	Description	No. Used
*	354–25	Section #4 Assembly (Complete)	1
*	93–1386	Section #5 Assembly (Complete)	1
*	353–841	Position – Spool Assembly (Incl. Ref. #20 27 37 & 51)	1
*	353–840	Position – DI (SP) Assy. (Incl. Ref. #37–43)	1
*	353–642	Relief – RC Mod. Assembly (Incl. Ref. #3–5 & 29–36)	1
*	353–833	Positioner Assembly (Incl. Ref. #19–28)	1
*	84–2203	Control Valve Assembly Complete	1
*	92–2548	Seals – Spool (Single 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

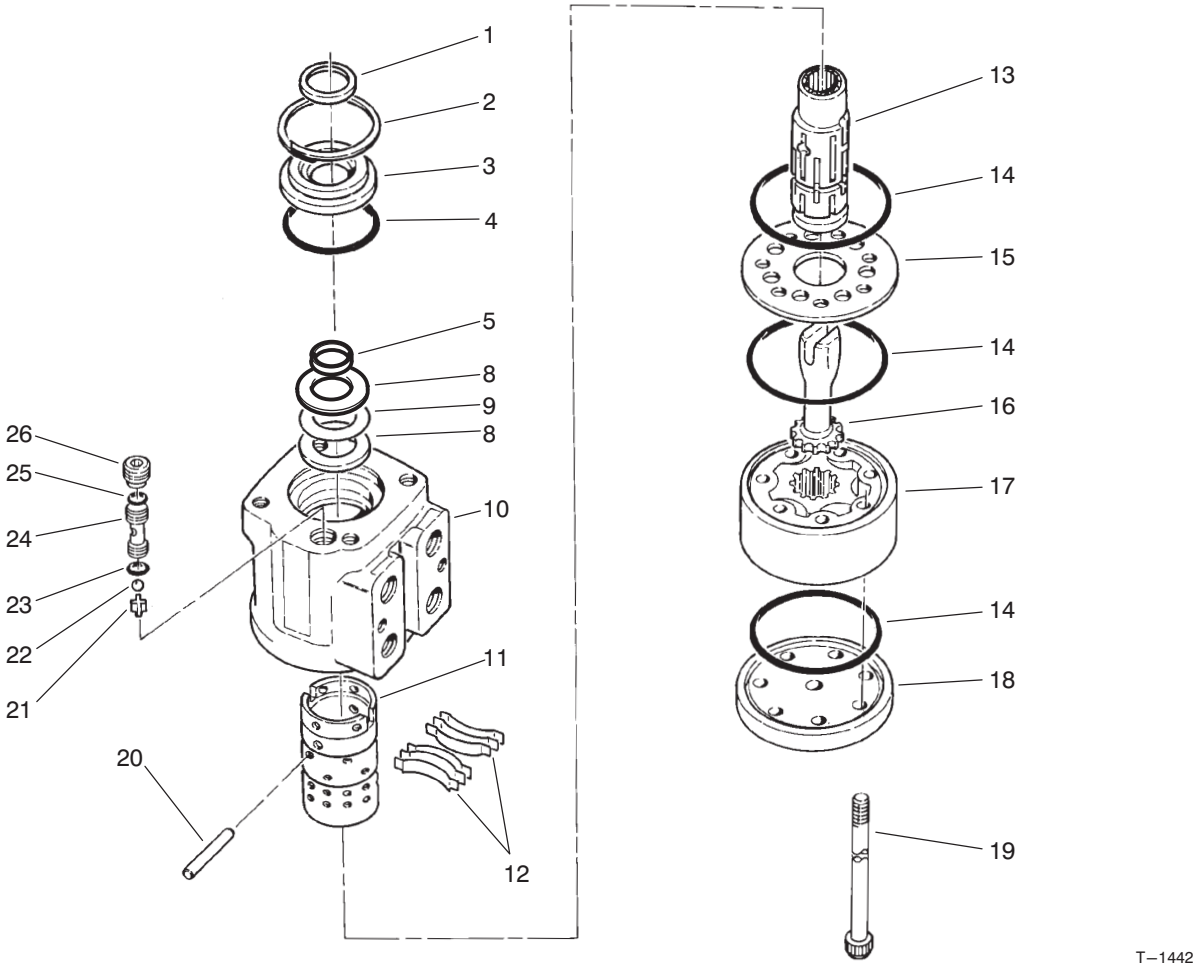


T−1291

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	83−0650	Arm − Steering	1
4	83−0780	Support − Steering Valve	1
5	93−8063	Decal − Warning	1
5	83−2520	Decal − Warning (Japenese)	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
18	83−0700	Handle − Lockup	1

Ref. No.	Part No.	Description	No. Used
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	92−8690	Steering − Valve Assembly	1
25	83−0810	Cover − Steering Valve	1
26	83−1350	Hose − Hydraulic	2
27	83−1360	Hose − Hydraulic	1
28	83−1370	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	93−8068	Decal − Steering Arm	1
32	83−2510	Decal − Steering Arm (Japanese)	1
33	3274−63	Screw − Hex. Socket Hd.	2
34	3256−26	Washer − Flat	2
35	83−1700	Bushing − Flange	1

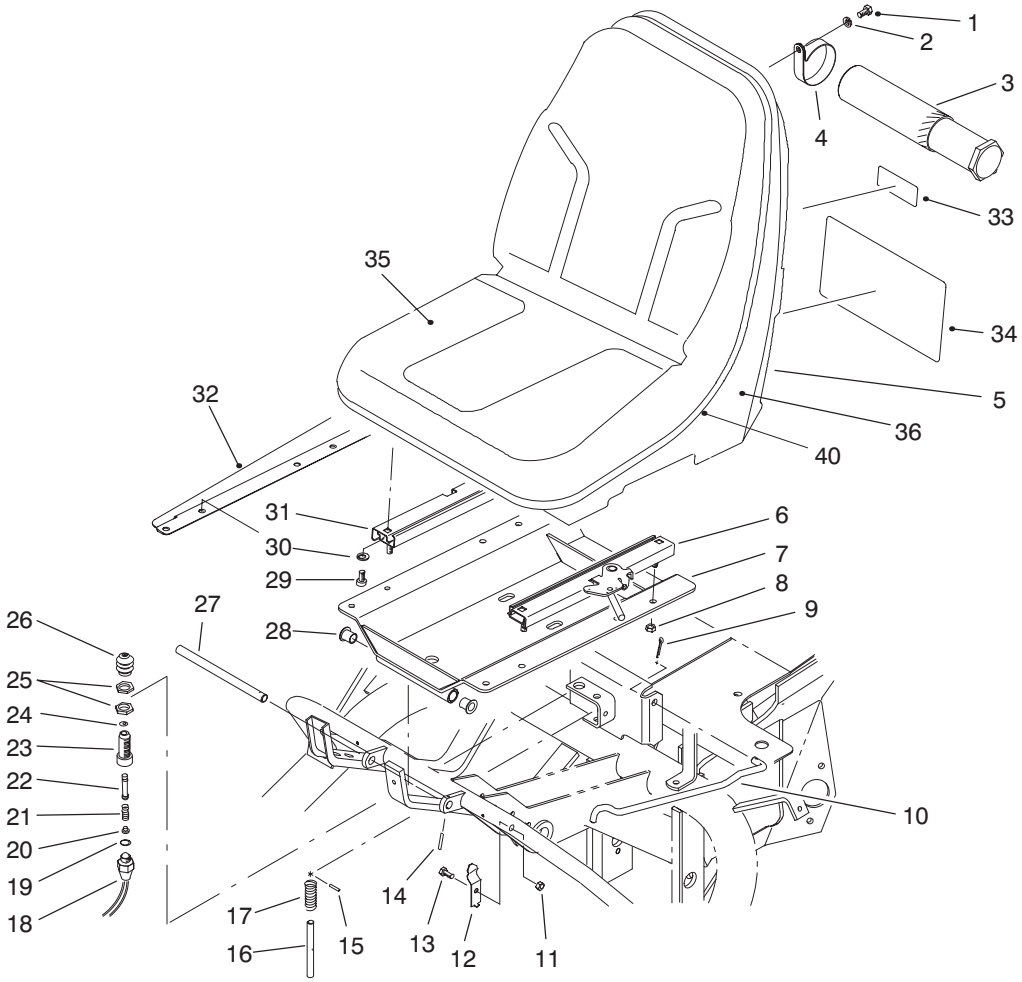


POWER STEERING VALVE NO. 92–8690

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	67–8113	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



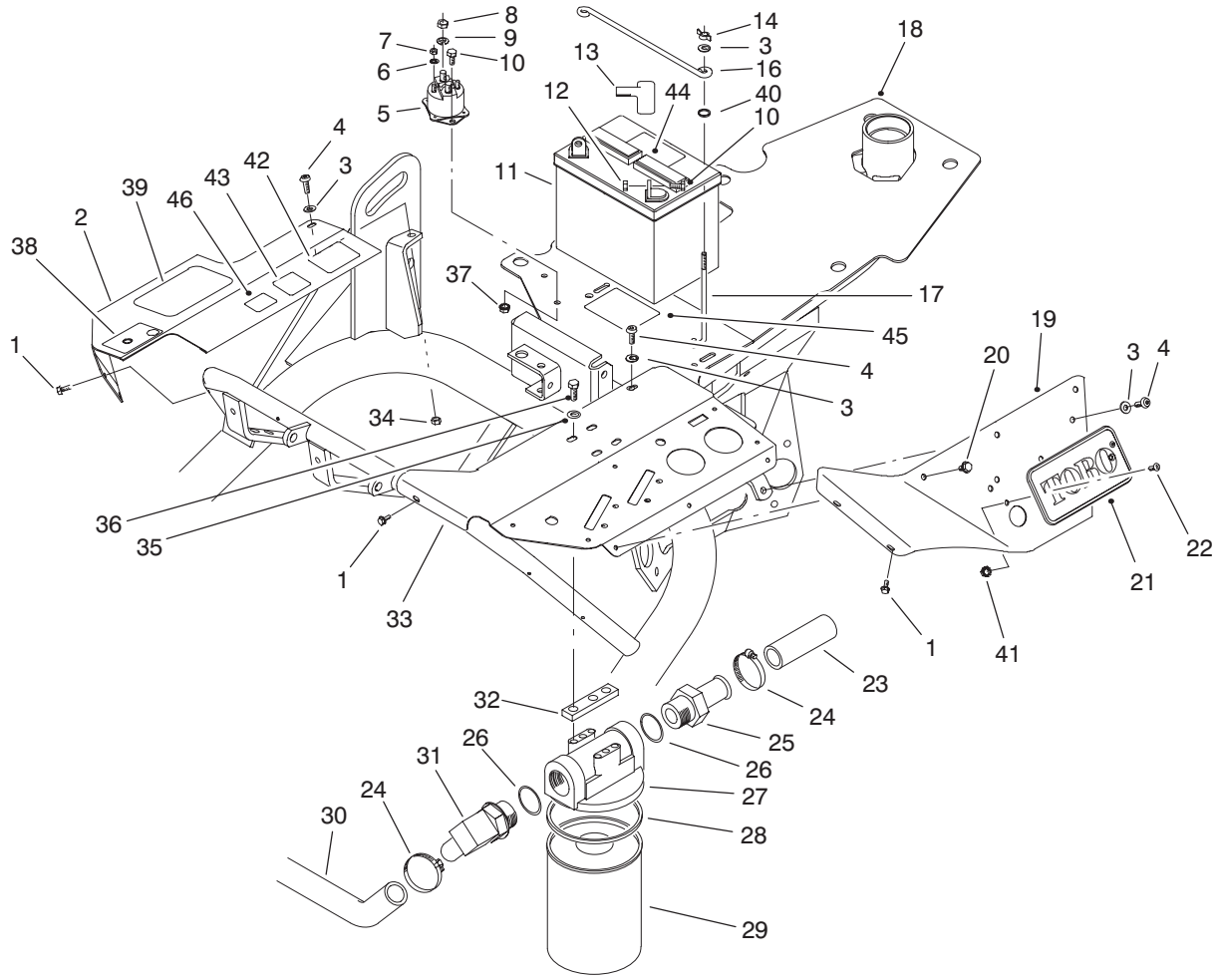
T–1290A

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 (Incl. Ref. #35, 36 & 40)	1
6	51–0790	Adjuster – Seat	1
7	83–1270	Seat Support Assembly (Incl. Ref. #28)	1
8	3296–29	Nut – Lock	4
9	3272–11	Pin – Cotter	1
10	68–5100	Rod – Seat Prop	1
11	3296–16	Nut – Lock	1
12	68–5310	Clip – Seat Rod	1
13	321–3	Screw – Cap Hex. Hd.	1
14	32121–45	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
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

Ref. No.	Part No.	Description	No. Used
26	43–8870	Boot – Switch	1
27	49–5880	Shaft – Seat Support	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	83–1840	Cover – R.H.	1
33	93–8067	Decal – Oil	1
33	84–3180	Decal – Oil (Japanese)	1
34	83–1780	Decal – Service	1
34	84–9240	Decal – Service (Spanish)	1
34	84–9250	Decal – Service (French)	1
34	84–9260	Decal – Service (German)	1
34	84–9270	Decal – Service (Swedish)	1
34	84–9280	Decal – Service (Italian)	1
34	93–7257	Decal – Service (Portuguese)	1
34	93–7258	Decal – Service (Norwegian)	1
34	93–7259	Decal – Service (Finnish)	1
34	93–7260	Decal – Service (Danish)	1
34	93–7261	Decal – Service (Dutch)	1
34	83–2490	Decal – Service (Japanese)	1
35	92–6533	Kit – Cushion	1
36	92–6534	Shell	1
40	351–78	Edging	1
*	43–9071	Seat Switch Assembly (Incl. Ref. #18–26)	1

*Not Illustrated

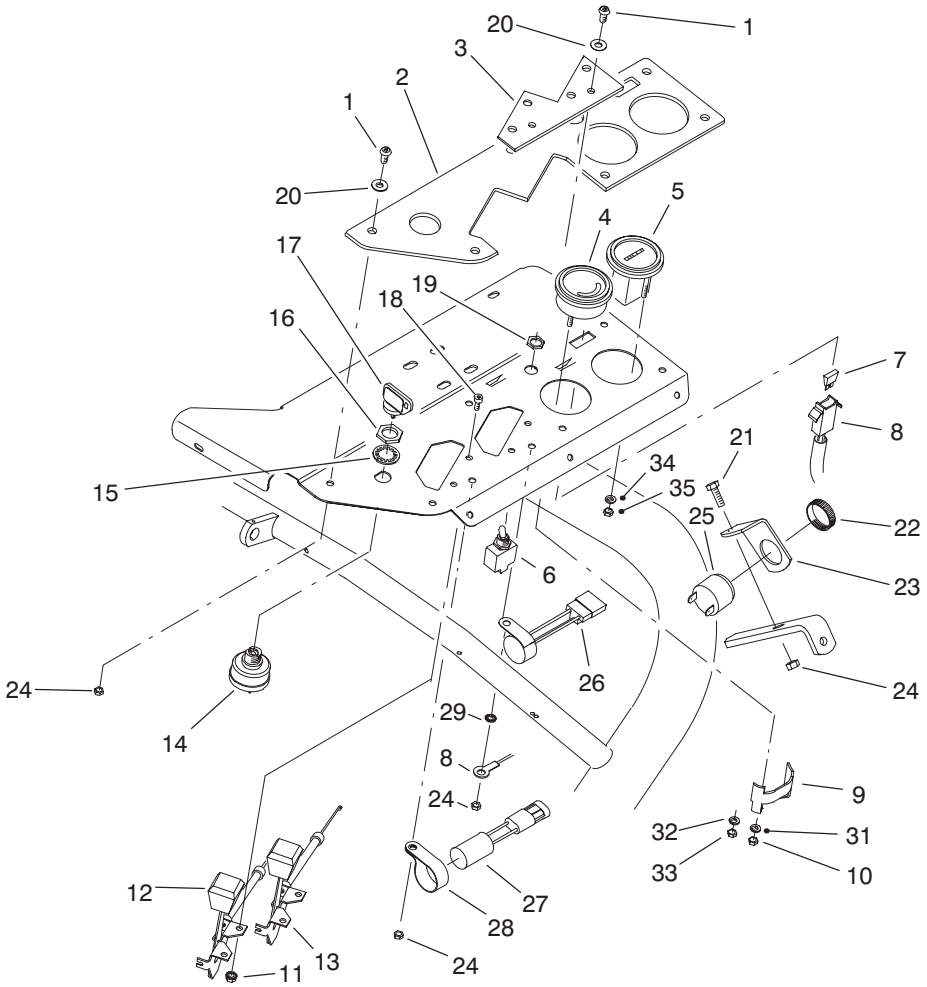


T–1295B

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104–76	Screw – Self Tapping	5
2	94–2694	Cover – R.H.	1
3	3256–22	Washer – Flat	5
4	3274–64	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	92–9164	Frame Assembly	1
19	83–0840	Fender – L.H.	1
20	46–8560	Screw – Self Taping	3
21	61–3310	Plate – Logo	1
22	3290–470	Screw – Flat Hd.	2
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	353–564	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	93–8065	Decal – Traction	1
38	83–2540	Decal – Traction (Japanese)	1
39	67–1300	Decal – TORO	1
40	237–143	Grommet	2
41	32149–7	Nut – Keps	2
42	92–5524	Decal – Noise Rating	1
43	63–9920	Decal – EEC	1
44	93–7276	Decal – Danger	1
45	93–6668	Decal – Danger	1
46	93–7252	Decal – C.E. Mark	1

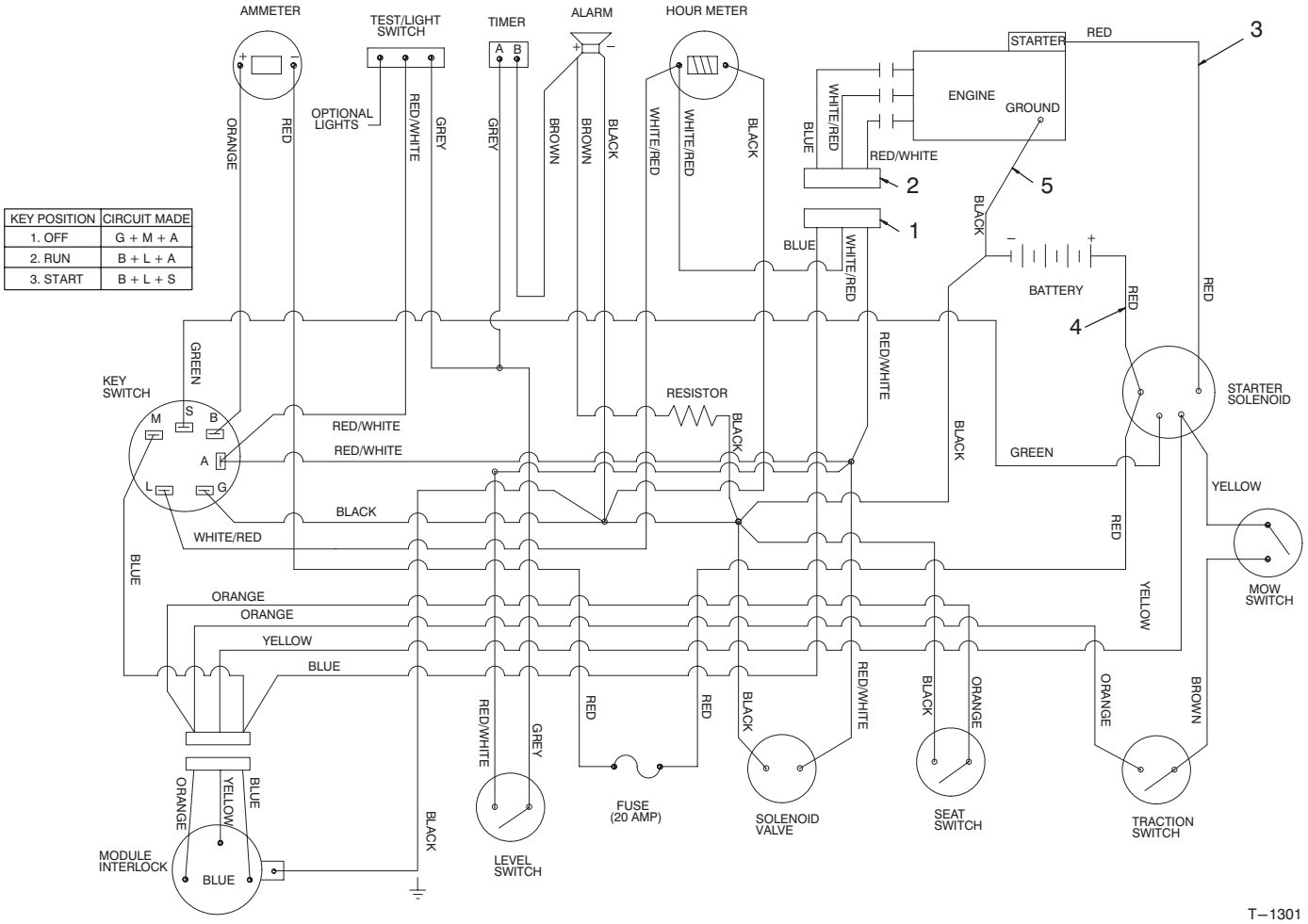


T−1296B

CONTROL PANEL ASSEMBLY

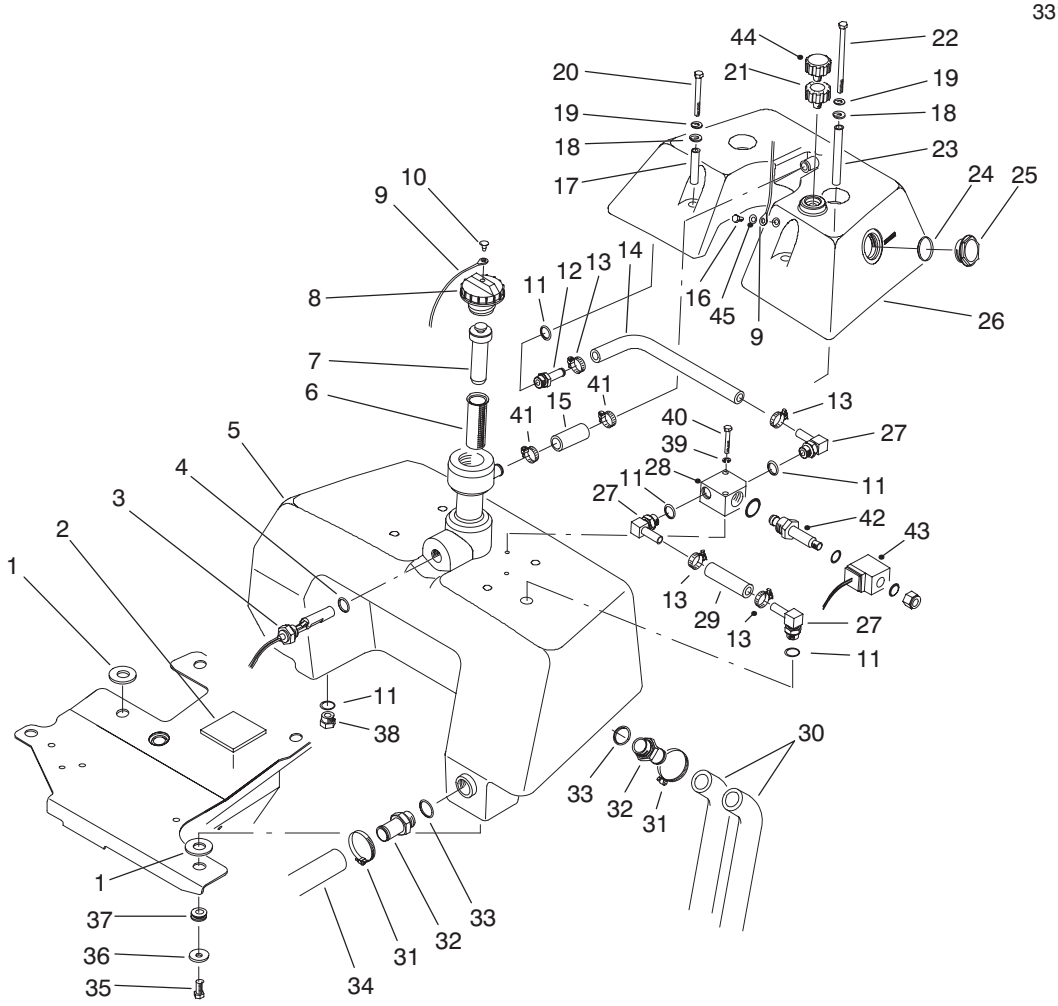
Ref. No.	Part No.	Description	No. Used
1	3274−69	Screw − Hex. Socket Hd.	8
2	93−8061	Plate − Control	1
2	83−2570	Plate − Control (Japanese)	1
3	83−2030	Plate − Filler	1
4	83−0820	Gauge − Ammeter (Incl. Ref. #9−10 & 31−33)	1
5	66−2950	Gauge − Hourmeter (Incl. Ref. #34 & 35)	1
6	83−1660	Switch Assembly (Incl. Ref. #19)	1
7	218−594	Fuse − 20 Amp	1
8	83−1100	Harness − Wire (Main)	1
9	94−6960	Clamp − Mounting	1
10	3217−27	Nut − Hex.	2
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	218−498	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 − Relay	1
28	2412−39	Clamp − R	1
29	3255−7	Washer − Lock, Int. Tooth	1
31	3254−10	Washer − Lock, Int. Tooth	2
32	3255−24	Washer − Lock, Ext. Tooth	3
33	3217−16	Nut − Hex	3
34	3255−20	Washer − Lock, Ext. Tooth	2
35	3217−25	Nut − Hex.	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 – Solenoid–Starter	1
4	83–2420	Wire – Solenoid–Battery	1
5	83–1150	Wire – Engine Ground	1

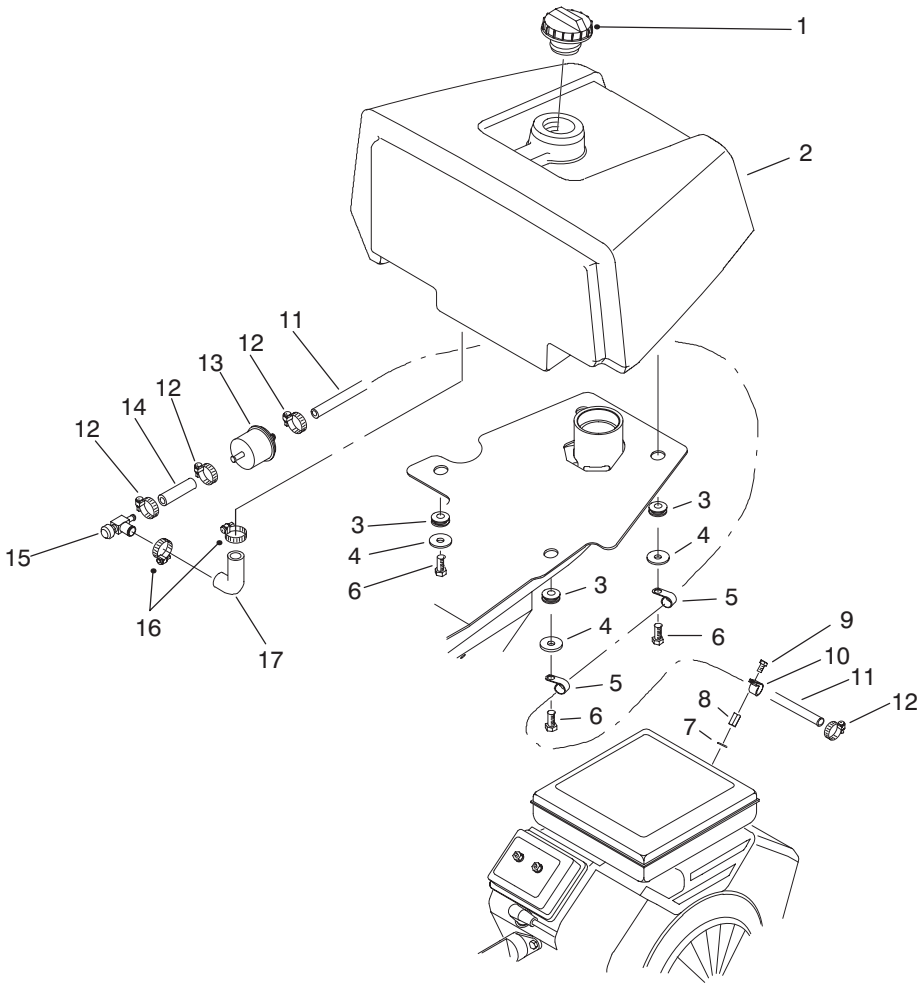


T−1289

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	92−8966	Reservoir − Hydraulic	1
6	83−1520	Screen − Filler	1
7	92−4063	Plug − Filler Cap	1
8	93−7160	Cap − Hydraulic Reservoir (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	354−121	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	3256−23	Washer − Flat	4
20	322−14	Screw − Cap Hex. Hd.	2
21	92−8020	Adapter − Breather	1
22	322−29	Screw − Cap Hex. Hd.	2
23	83−1560	Spacer − Tank (Long)	2
24	237−123	Seal − O−Ring	1

Ref. No.	Part No.	Description	No. Used
25	83−2250	Guage − Sight (Incl. Ref. #24)	1
26	83−2100	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
44	68−6150	Breather	1
45	3256−22	Washer − Flat	1



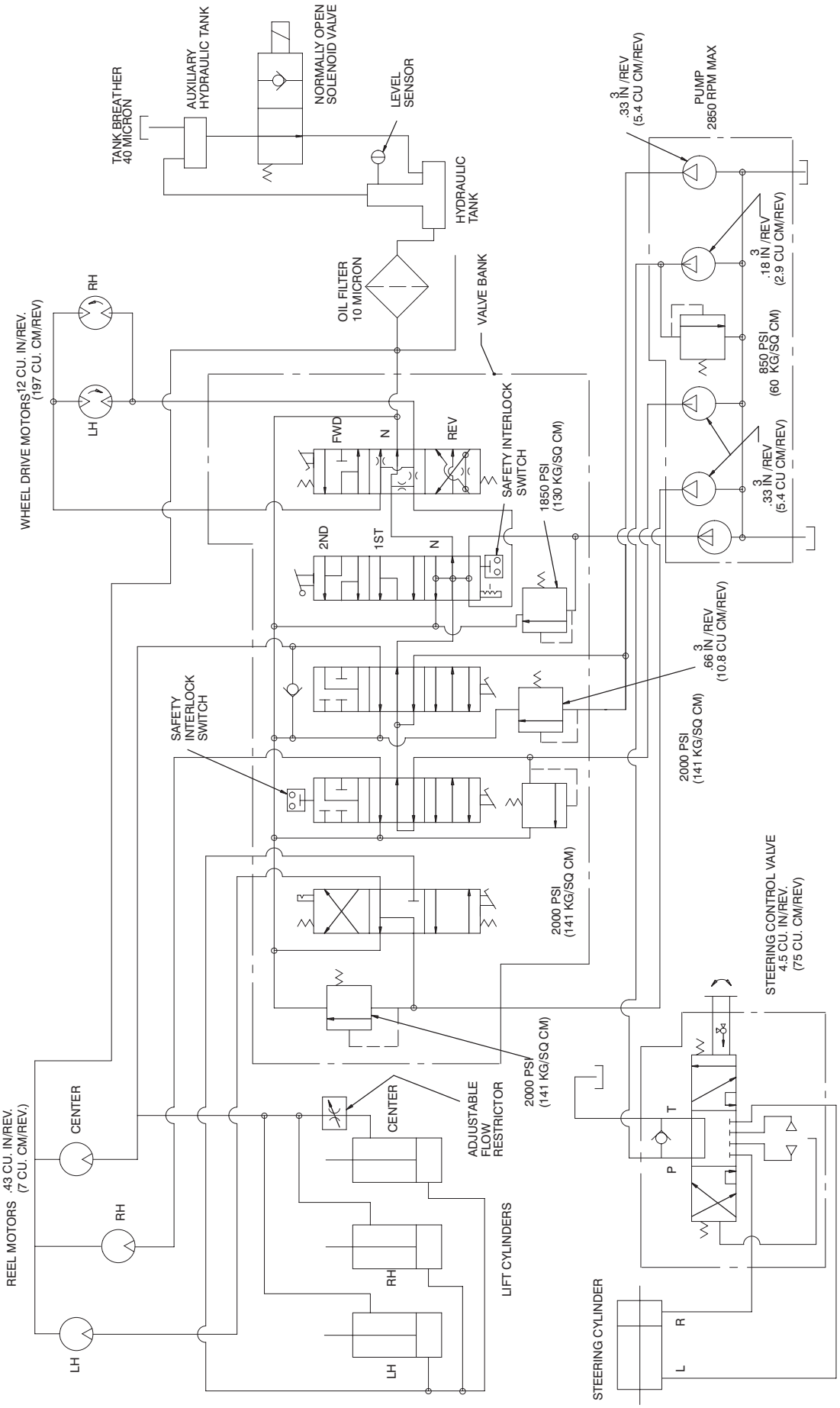
T–1317

FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93–7170	Cap – Fuel	1
2	92–7189	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

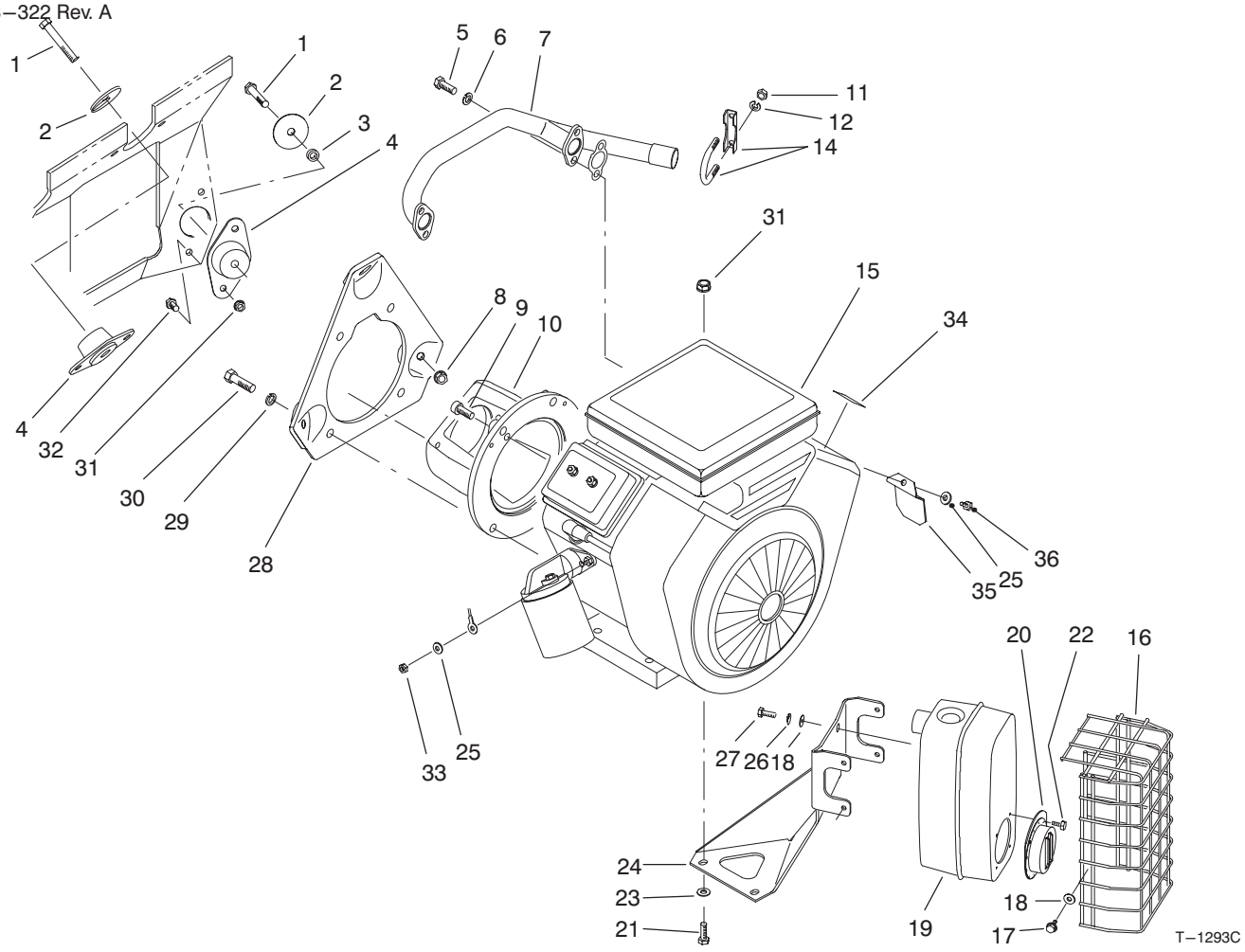
Ref. No.	Part No.	Description	No. Used
10	2412–94	Clamp – R	1
11	83–2041	Hose – Fuel	1
12	2412–108	Clamp – Hose	4
13	94–2690	Filter – Fuel	1
14	83–2040	Hose – Fuel	1
15	83–1390	Fitting – Fuel Shut–Off	1
16	2412–36	Clamp – Hose	2
17	56–2230	Hose – Fuel	1

HYDRAULIC SCHEMATIC



T−1302

3318–322 Rev. A

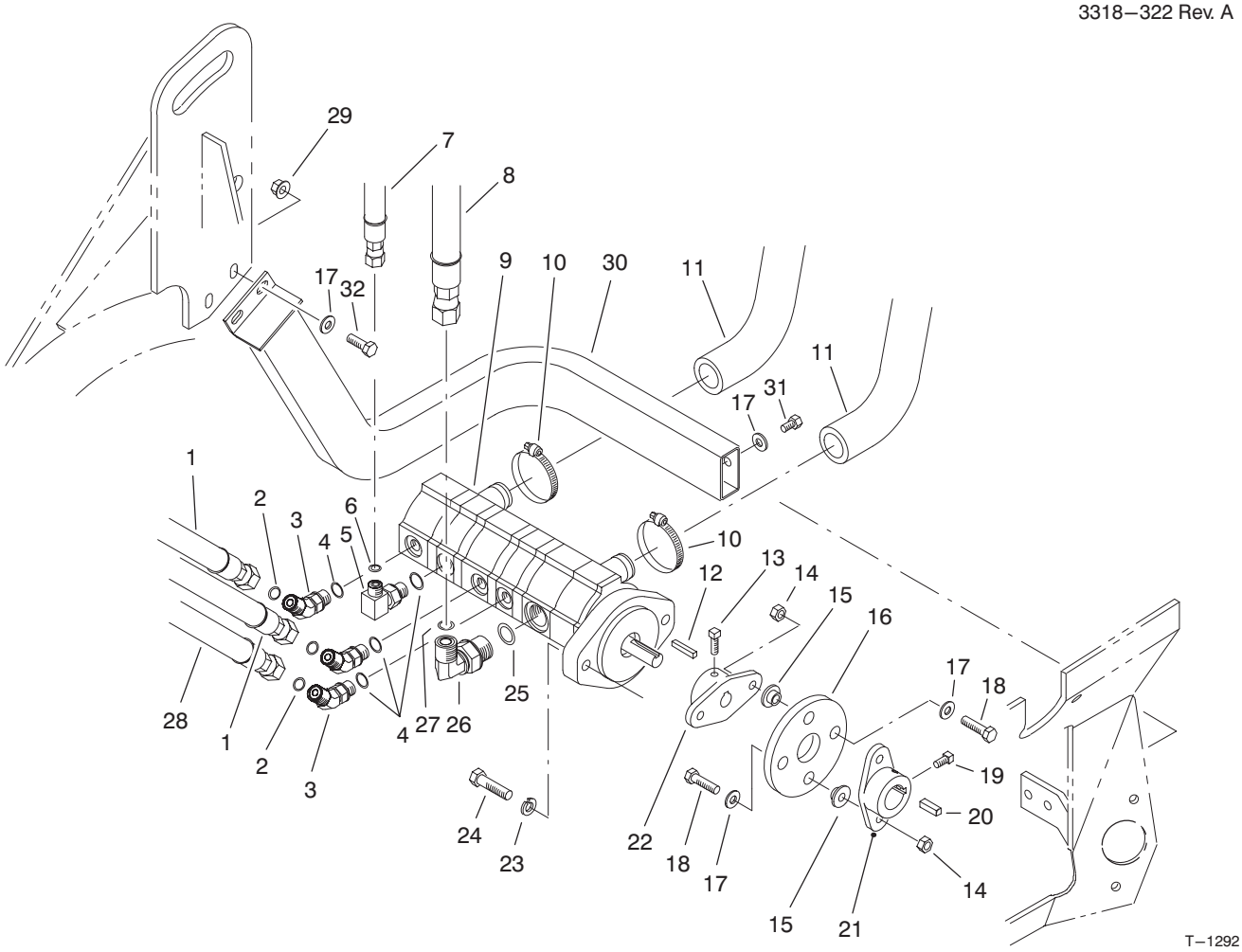


ENGINE INSTALLATION ASSEMBLY

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
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	12–3270	Screw – Hex. Washer Hd.	4
18	3256–1	Washer – Flat	8
19	493963	Muffler	1
*	83–2240	Arrestor – Spark (Optional)	1
20	83–2220	Deflector – Exhaust	1

Ref. No.	Part No.	Description	No. Used
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	93–8069	Decal – Warning	1
34	83–2560	Decal – Warning (Japanese)	1
35	83–2310	Shield	1
36	48–7620	Screw – Cap Hex. Hd.	1
*	3290–378	Tie – Cable	2
*	250–6	Tie – Cable	2

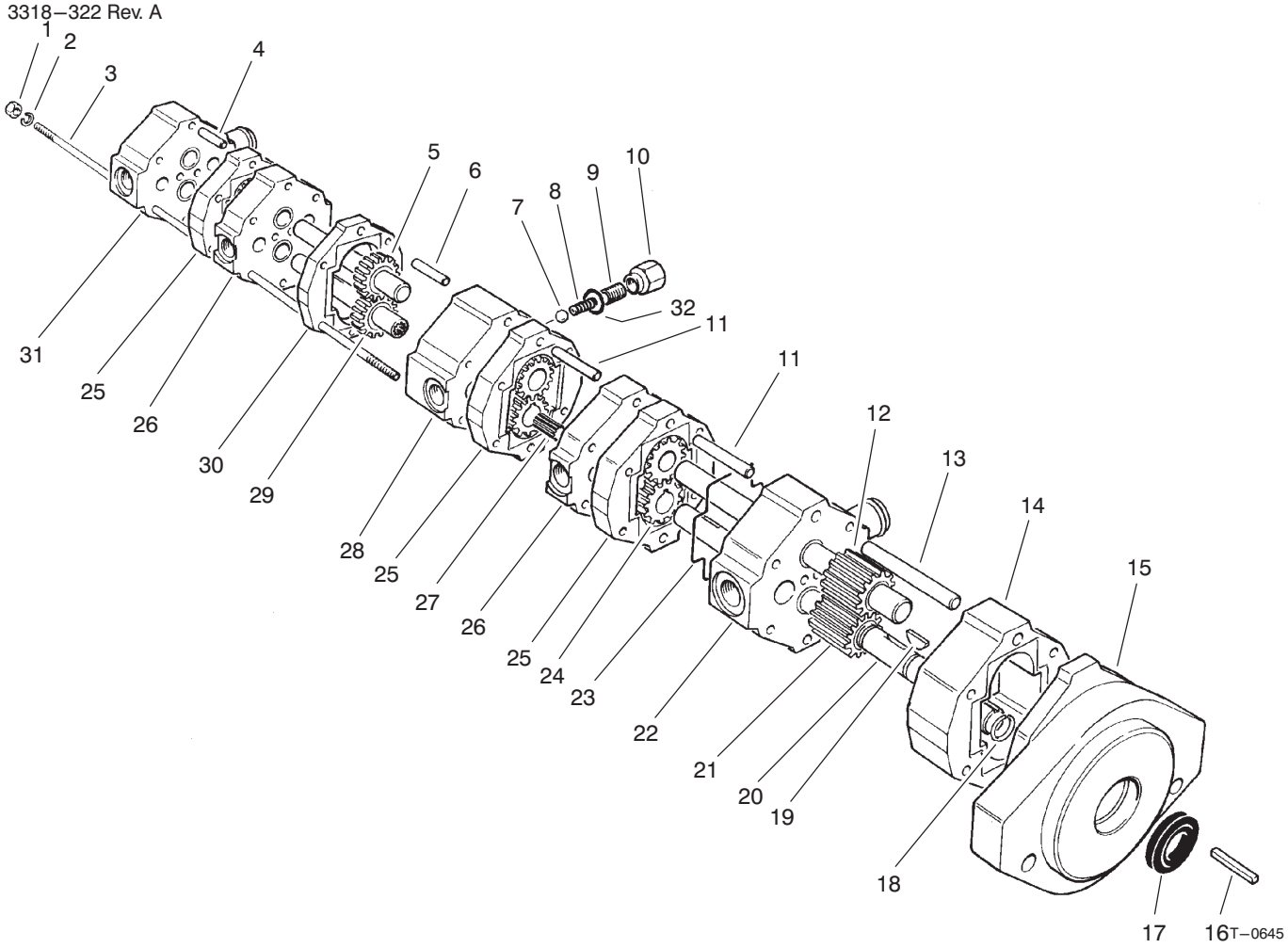
*Not Illustrated



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	83−1350	Hose − Hydraulic	1
8	83−1180	Hose − Hydraulic	1
9	92−9764	Hydraulic Pump Assembly (Incl. Ref. #12)	2
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

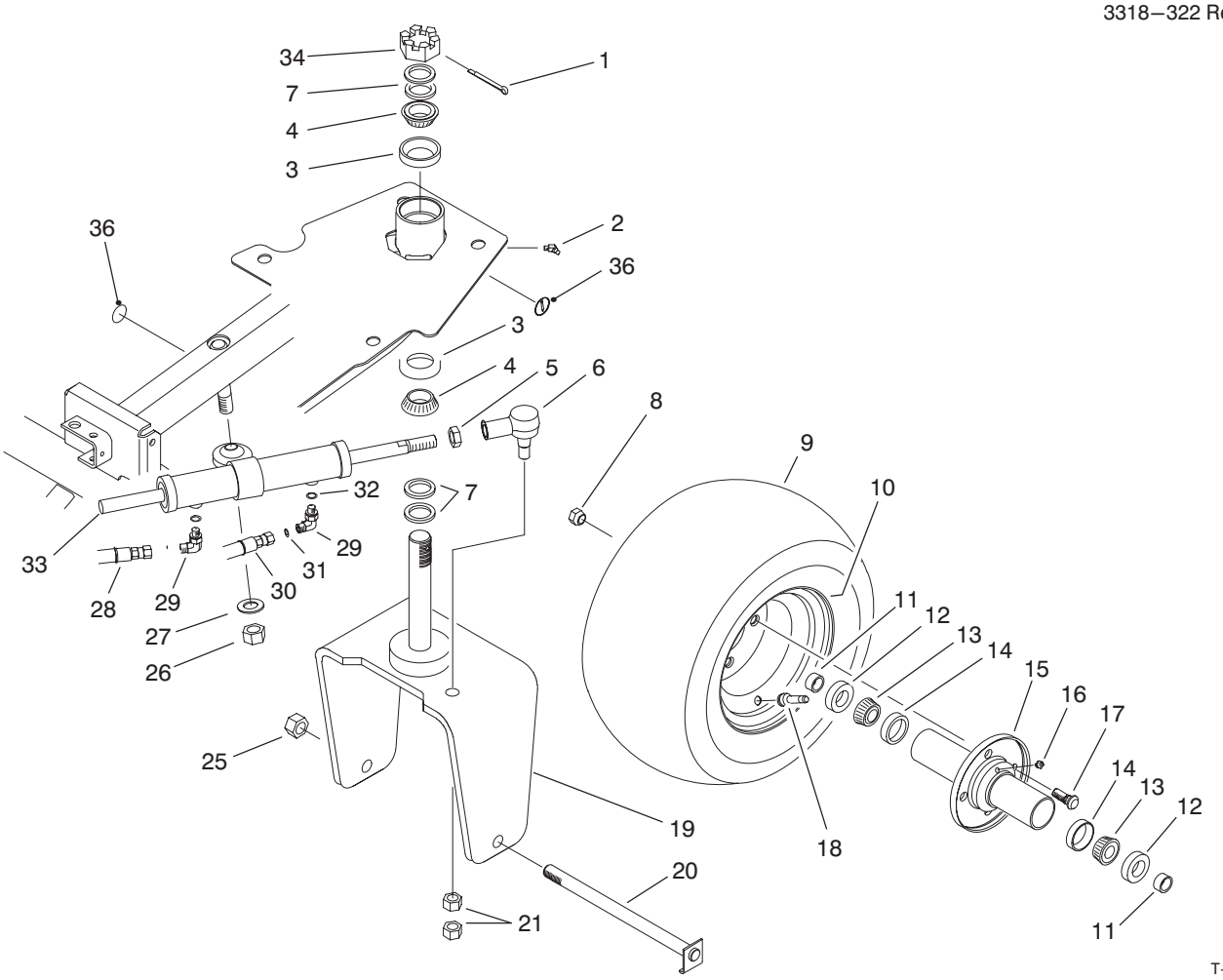
Ref. No.	Part No.	Description	No. Used
16	44−2230	Coupling − Rubber	1
17	3256−23	Washer − Flat	8
18	322−6	Screw − Cap Hex. Hd.	4
19	3241−2	Screw − Set Square Hd.	2
20	10−7070	Key − Square	1
21	27−1960	Hub − Engine	1
22	27−1970	Hub − Pump	1
23	3253−21	Washer − Lock	2
24	323−8	Screw − Cap Hex. Hd.	2
25	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 92–9764

Ref. No.	Part No.	Description	No. Used
1	3217–6	Nut – Hex.	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	92–9774	Idler Shaft – Gear Assy.	1
13	354–14	Pin – Dowel	2
14	92–9766	Plate – Gear 66B	1
15	354–2	Body Assembly	1
16	5–0946	Key – Square	1
17	354–15	Seal – Shaft	1

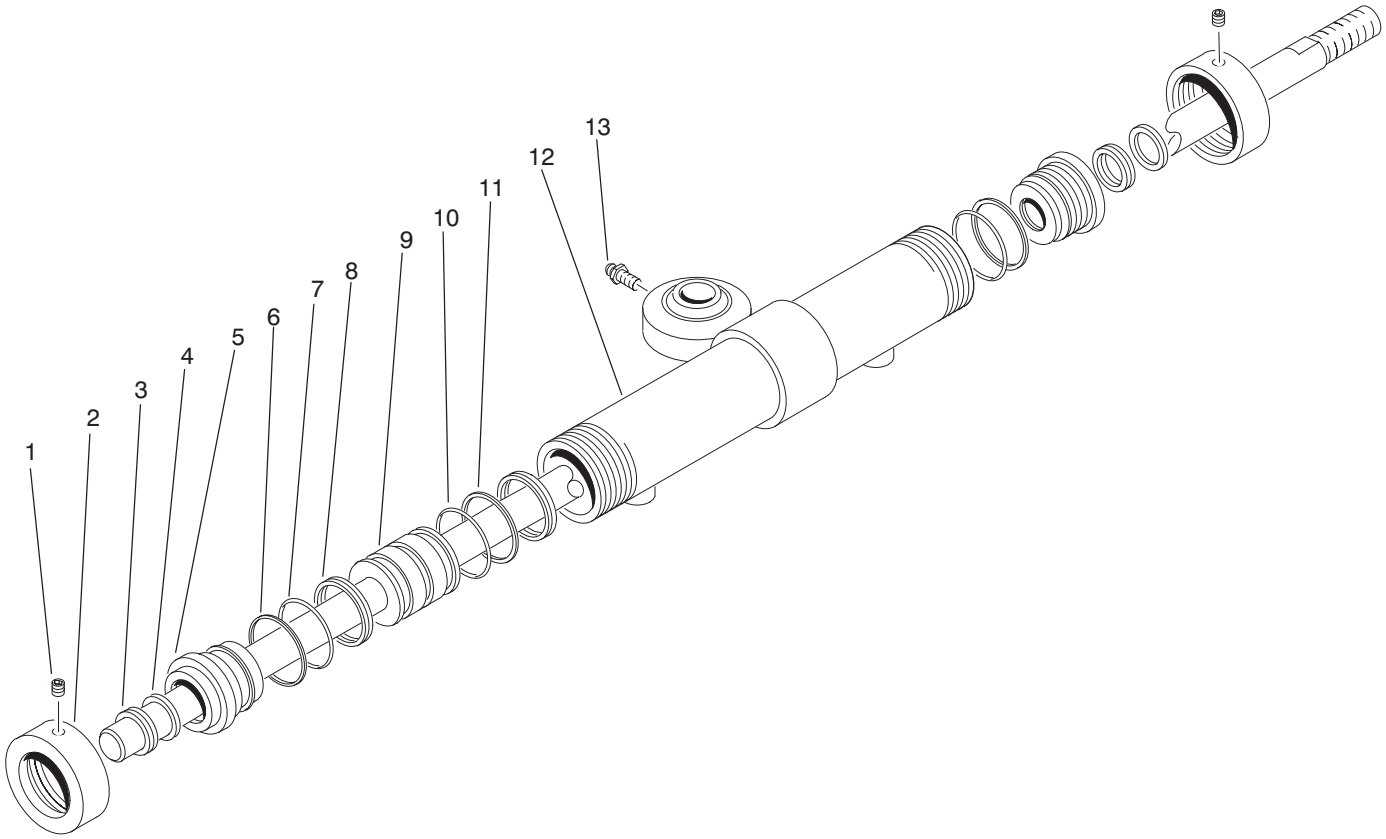
Ref. No.	Part No.	Description	No. Used
18	353–886	Ring – Retaining	2
19	353–884	Key – Woodruff	4
20	92–9772	Shaft – Drive	1
21	92–9773	Gear – 66B	1
22	354–3	Bearing Plate Assembly	1
23	353–922	Seal – Ring	10
24	353–967	Gear – 33B	6
25	353–969	Plate – Gear 33B	3
26	353–923	Bearing Plate Assembly	2
27	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	4
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	93–2524	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	83–1350	Hose – Hydraulic	1
29	340–132	Fitting – Hydraulic 90˚ (Incl. Ref. #31 & 32)	2
30	83–1360	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
36	58–6520	Decal – Grease	2



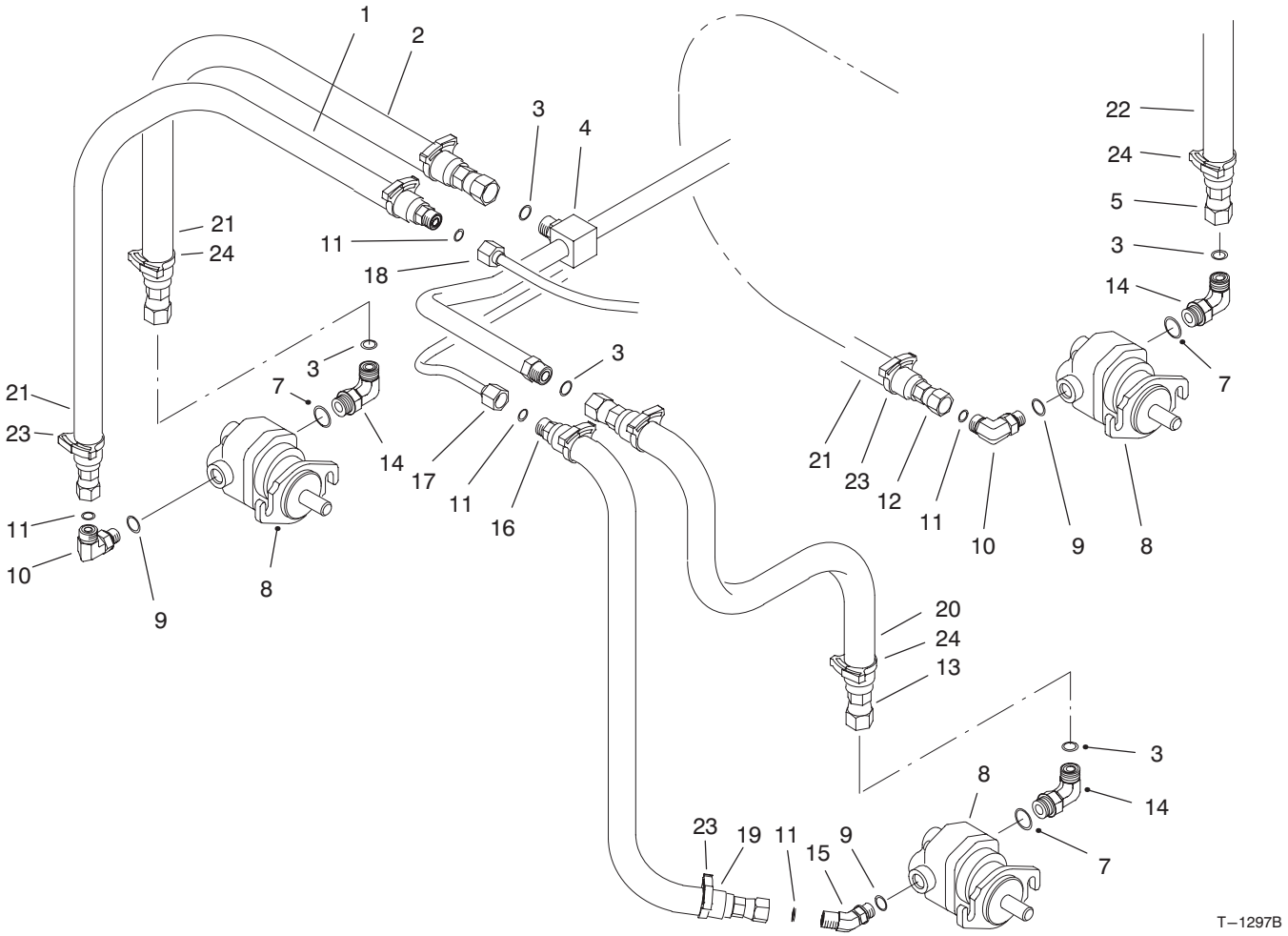
T–1313

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

Ref. No.	Part No.	Description	No. Used
9	83–2360	Assembly – Rod	1
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

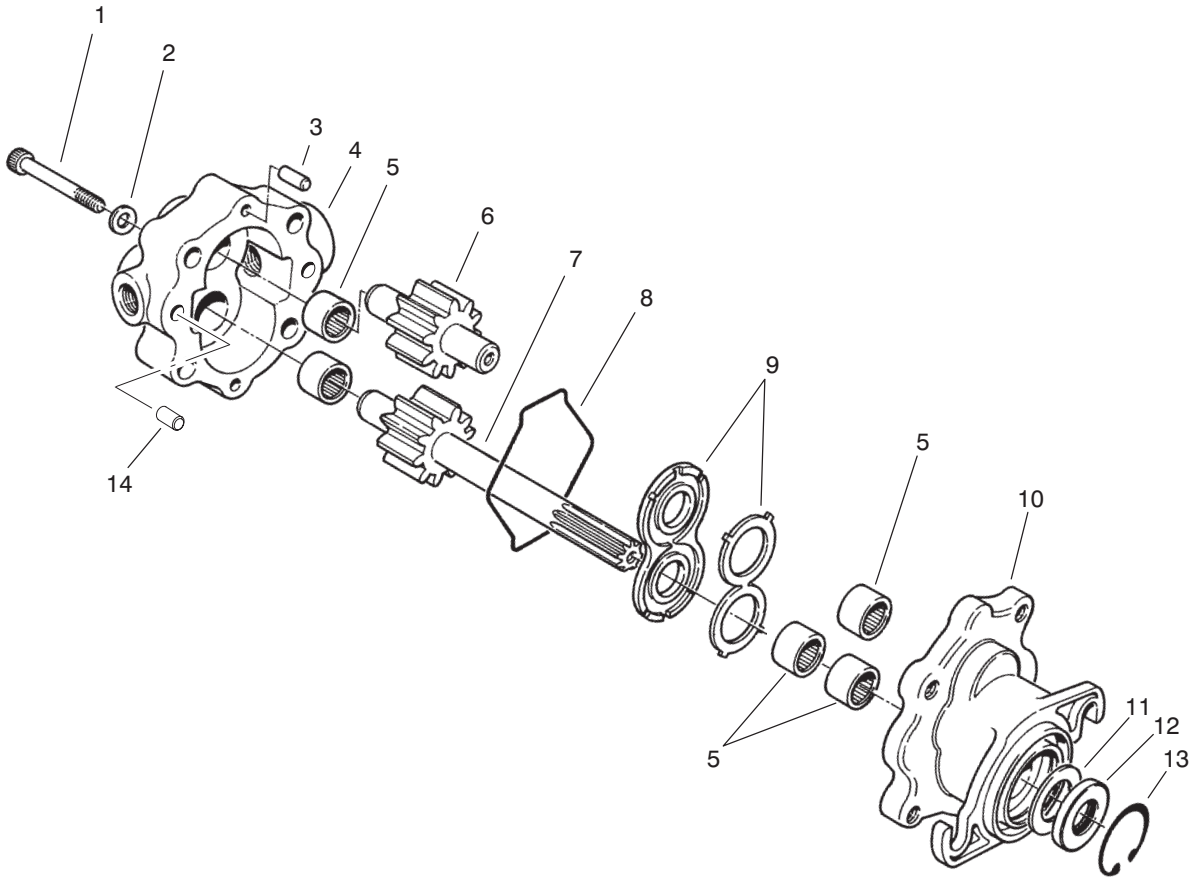
*Not Illustrated



REEL MOTOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63−3810	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1
2	63−3820	Hydraulic Hose Assembly (Incl. Ref. #21 & 24)	1
3	237−30	Seal − O−Ring	5
4	63−4040	Hydraulic Tube Assembly (Incl. Ref. #3)	1
5	63−3840	Hydraulic Hose Assembly (Incl. Ref. #22 & 24)	1
7	237−79	Seal − O−Ring	3
8	94−3506	Reel Motor Assembly	3
9	237−42	Seal − O−Ring	3
10	340−77	Fitting − Hydraulic 90˚ (Incl. Ref. #9 & 11)	2
11	237−22	Seal − O−Ring	5
12	74−3830	Hydraulic Hose Assembly (Incl. Ref. #21 & 23)	1

Ref. No.	Part No.	Description	No. Used
13	63−3830	Hydraulic Hose Assembly (Incl. Ref. #20 & 24)	1
14	340−98	Fitting − Hydraulic 90˚ (Incl. Ref. #3 & 7)	3
15	340−87	Fitting − Hydraulic 45˚ (Incl. Ref. #9 & 11)	1
16	63−3870	Hydraulic Hose Assembly (Incl. Ref. #19 & 23)	1
17	63−4020	Tube − Hydraulic	1
18	63−4030	Tube − Hydraulic	1
19	56−7986	Sleeve − Protective	1
20	56−7987	Sleeve − Protective	1
21	56−7980	Sleeve − Protective	3
22	56−7981	Sleeve − Protective	1
23	93−9346	Clamp − Pressure Hose	6
24	93−9347	Clamp − Return Hose	6



T–1872

REEL MOTOR NO. 94–3506

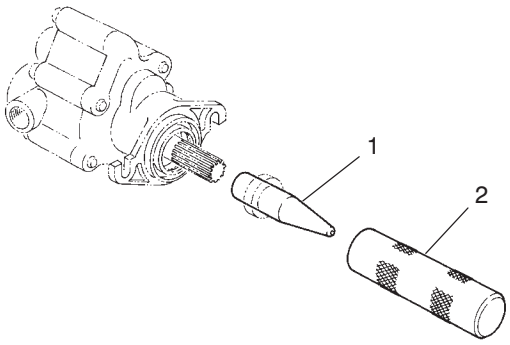
Ref. No.	Part No.	Description	No. Used
1	354–50	Screw – Hex Socket Hd.	4
2	354–51	Washer	4
3	353–599	Pin – Dowel	2
4	94–3507	Cover Assembly (Incl. Ref. #5)	1
5		Bearing – Needle	5
6	94–3509	Idler Gear Assembly	1
7	94–3508	Drive Shaft Assembly	1
8	354–46	Ring – Seal	1

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

*Not Illustrated

SPECIAL TOOLS

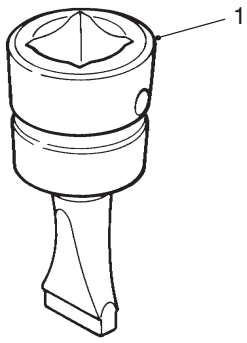
REEL MOTOR SEAL INSTALLATION TOOLS



T–0727

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

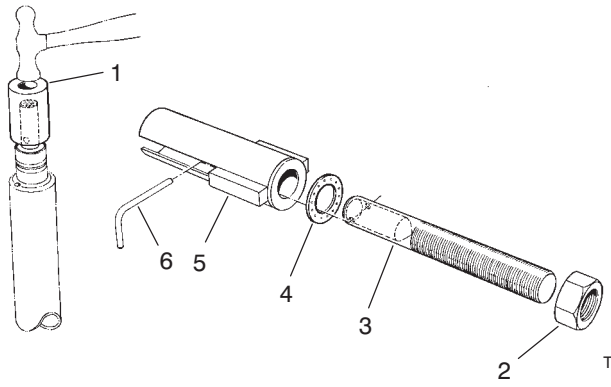
BED KNIFE SCREW TOOL NO. TOR510880



T–0729

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

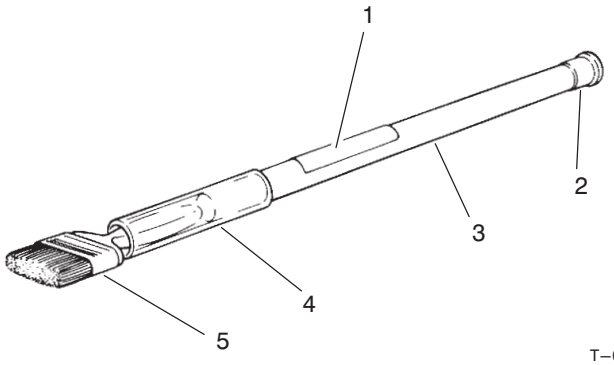
BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



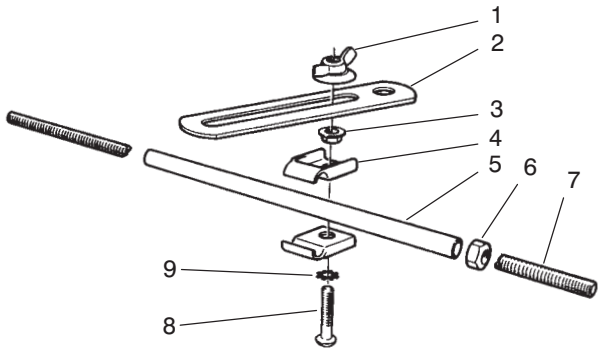
T–0731

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)

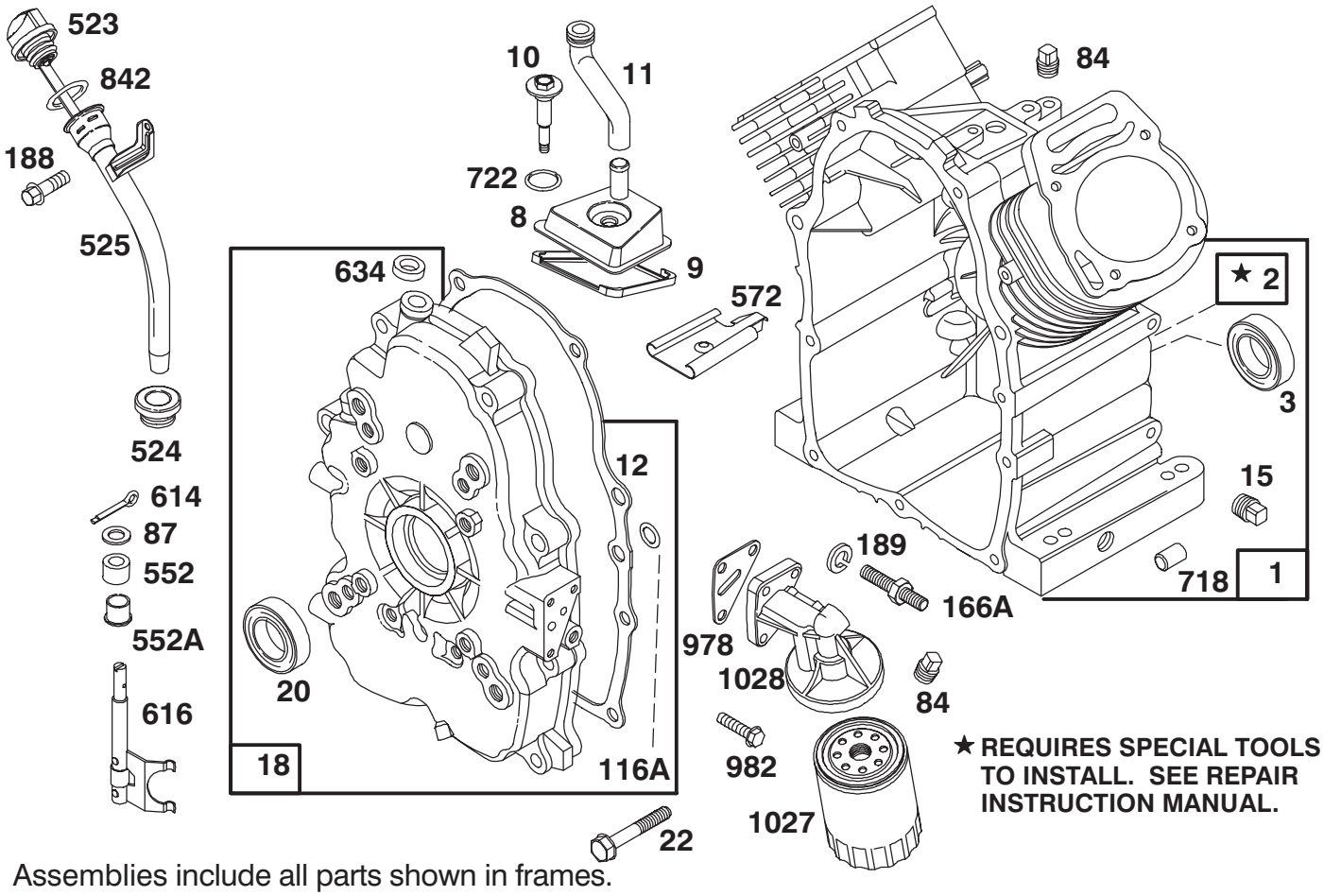
ALIGNMENT TOOL NO. TOR200120



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



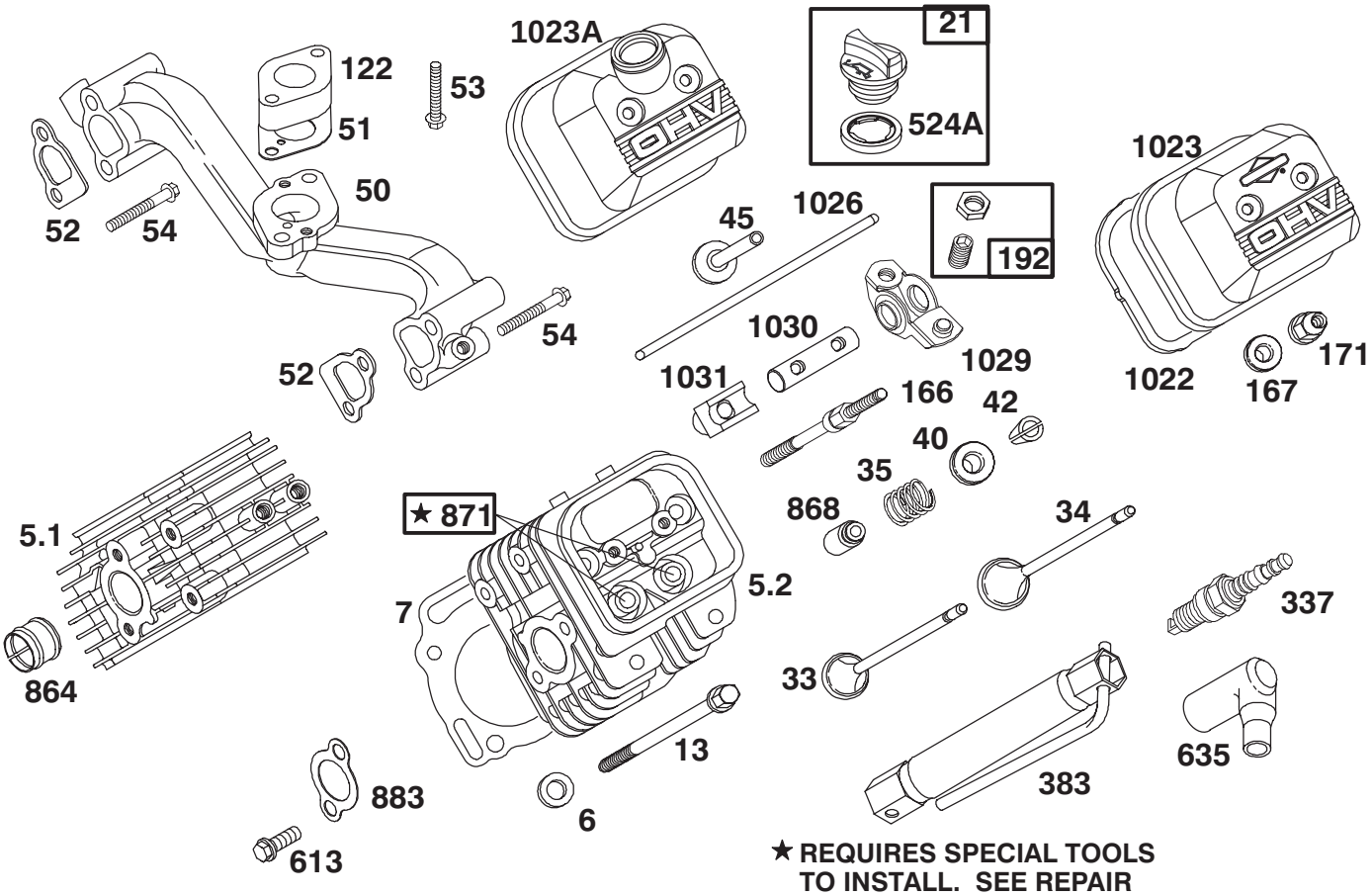
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—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	805696	Screw — Crankcase Cover	
84	91488	Plug — Pipe	
*87	805054	Seal — Governor Shaft	
*116A	805198	O—Ring (Crankcase Cover)	
166A	805073	Stud — Oil Filter Adapter	
188	805247	Screw — Hex. Head	

Ref. No.	Part No.	Description	No. Used
189	805449	Lockwasher	
523	807977	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	
*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	

*Included in Gasket Set — Part No. 807989.



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

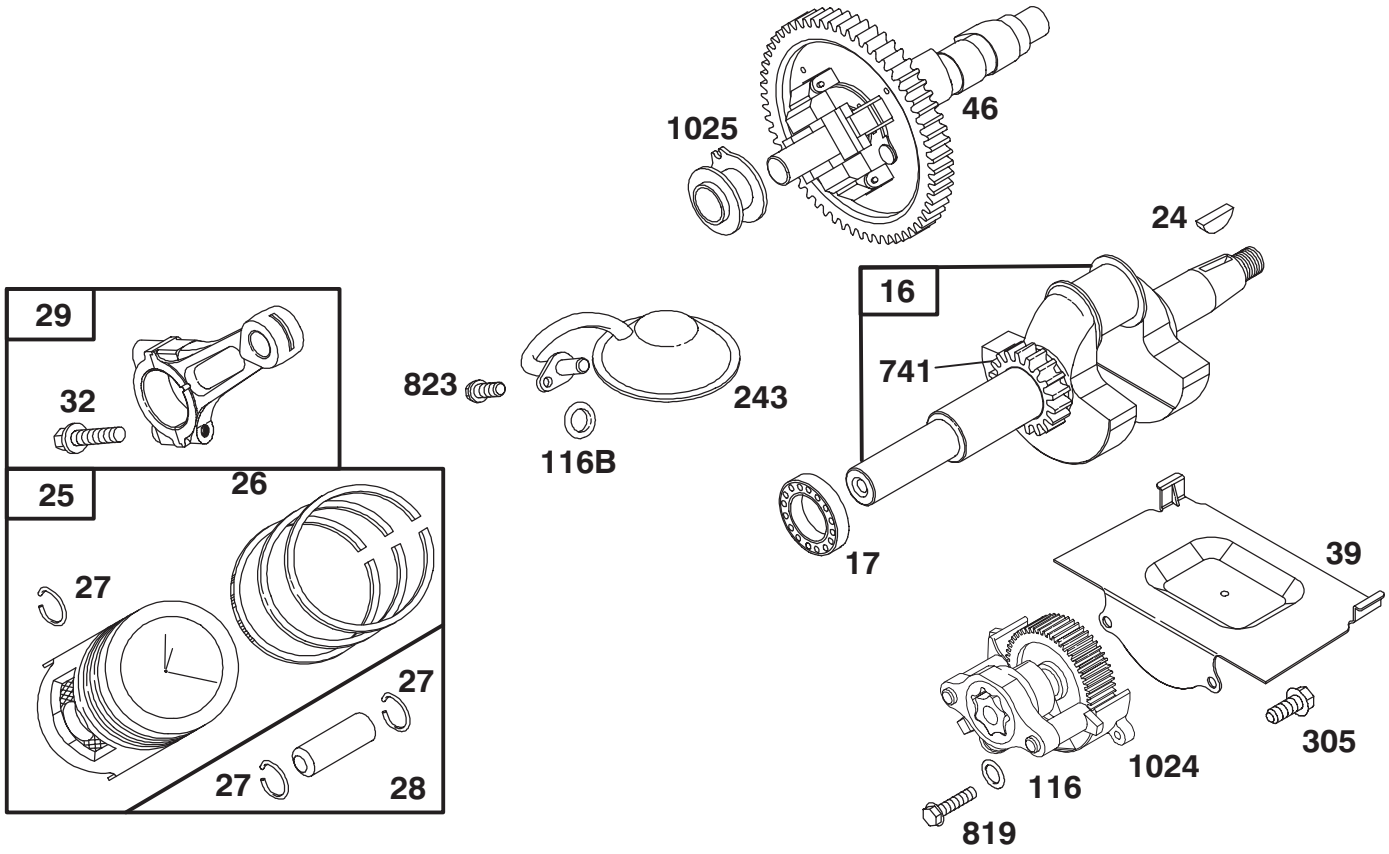
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
5.1	807987	Head — Cylinder (Cyl. #1)	
5.2	807988	Head — Cylinder (Cyl. #2)	
‡6	805193	Washer — Cylinder Head	
‡*7	807986	Gasket — Cylinder Head	
13	805097	Screw — Cylinder Head	
21	491832	Plug — Oil Fill (Cyl. #1)	
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	805772	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	496018	Plug — Spark	
383	19374	Wench — Spark Plug	
‡*524A	271983	Seal — Filler Plug	
613	805158	Screw	
635	805529	Elbow — Spark Plug	
864	805083	Liner — Exhaust Port	
868	805094	Seal — Valve Guide	
871	805084	Guide — Valve	
‡*883	805024	Gasket — Exhaust Manifold	
‡*1022	805028	Gasket — Valve Cover	
1023	805100	Cover — Valve	
1023A	808032	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. 807989.
‡Included in Valve Overhaul Kit — Part No. 807990.



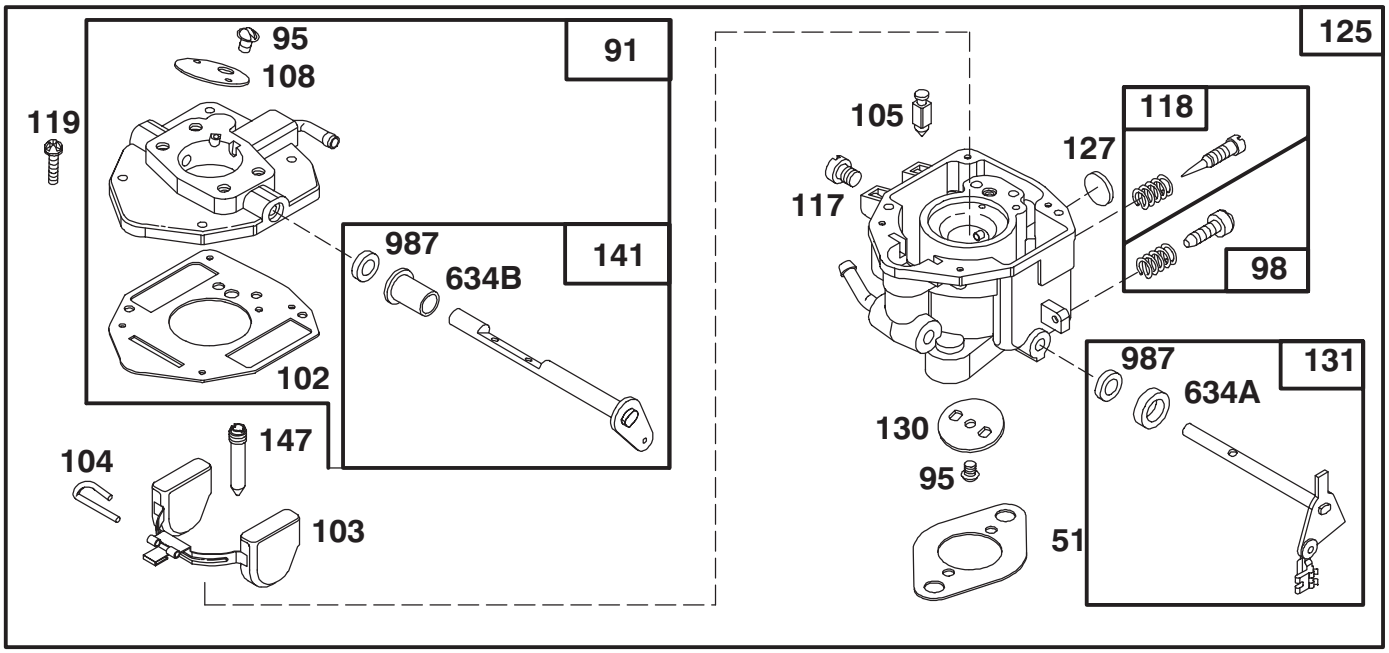
Assemblies include all parts shown in frames.

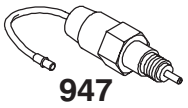
ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

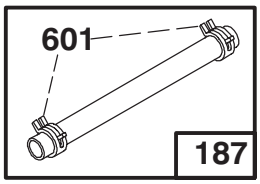
Ref. No.	Part No.	Description	No. Used
16	807589	Crankshaft **Note:** To Replace Crankshaft Gear Key — Order Part No. 94196. 807625 Thrust Washer	
17	805754	Bearing — Ball	
24	805016	Key — Flywheel	
25	807619	Piston Assembly (Standard)	
	807807	Piston Assembly .010 O.S.	
	807809	Piston Assembly .020 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	
28	807621	Piston Pin Assembly	

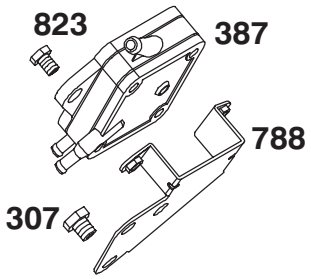
Ref. No.	Part No.	Description	No. Used
29	807900	Connecting Rod Assembly **Note:** For Connecting Rod With .020" Undersize Crankpin Bore — Order Part No. 807803.	
32	805395	Screw — Connecting Rod	
39	805654	Plate — Windage	
46	807542	Gear — Cam	
*116	805058	O—Ring (Oil Pump)	
*116B	805316	O—Ring (Pick — Up Tube)	
243	807598	Screen — Oil Pump Pick-Up	
305	805406	Screw	
741	805675	Gear — Timing	
819	805057	Screw	
823	805317	Screw — Mounting	
1024	807644	Oil Pump Assembly	
1025	805313	Slider — Governor	

*Included in Gasket Set — Part No. 807989.









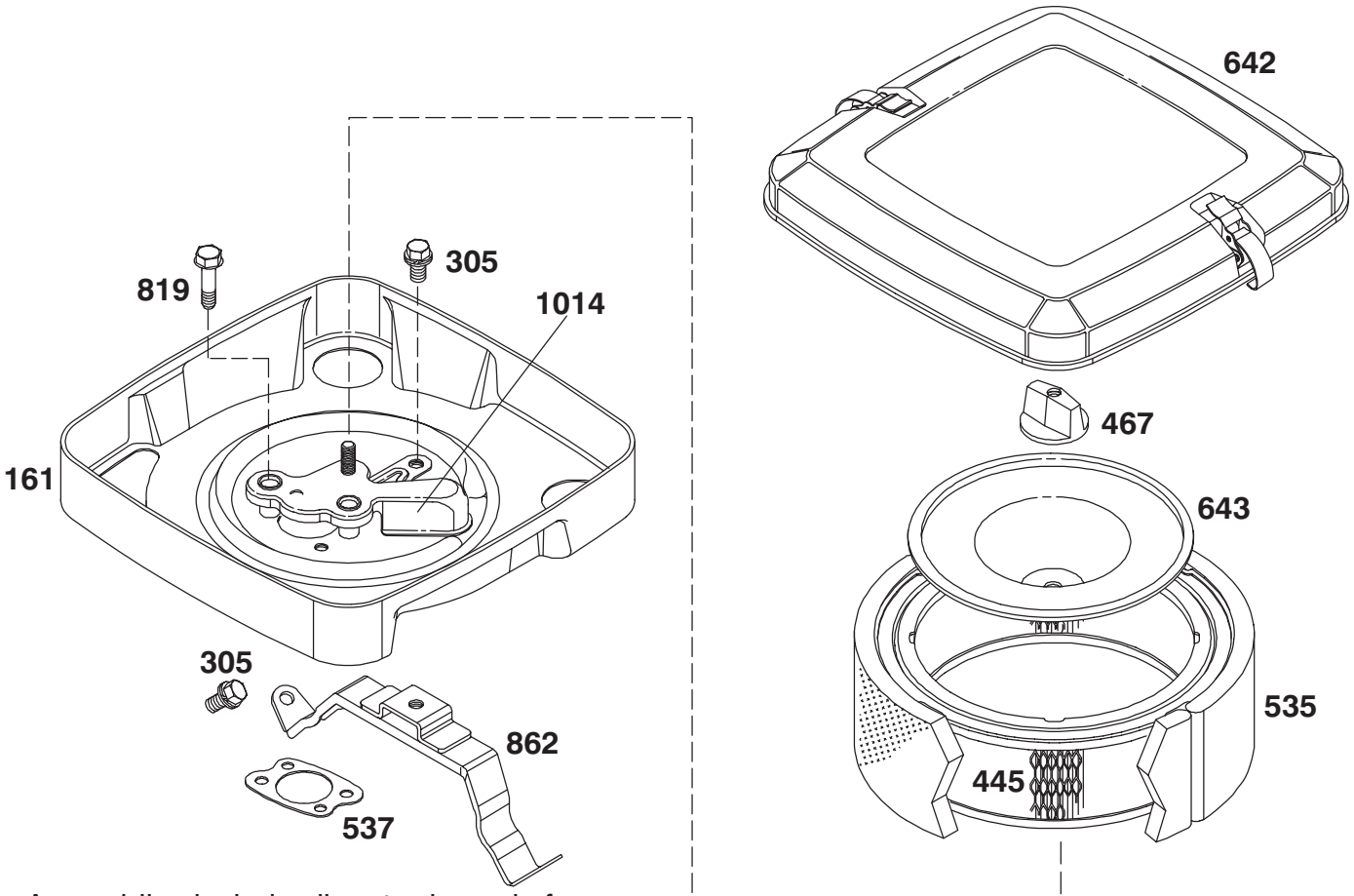
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
*51	805700	Gasket — Carburetor Mtg.	
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	805853	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)	
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 Kit — Part No. 807726.
*Included in Gasket Set — Part No. 807989.



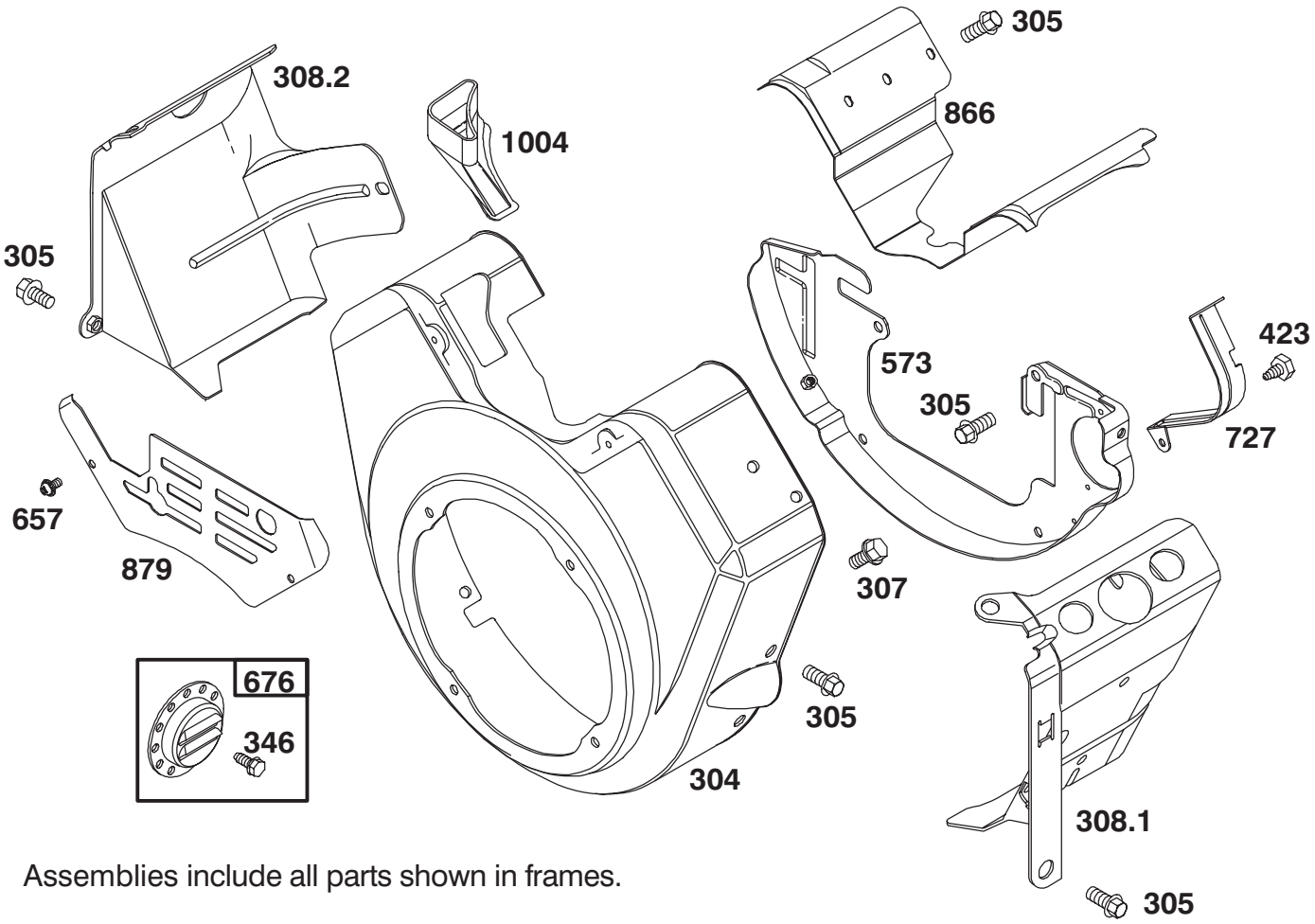
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—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	272490	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.	

*Included in Gasket Set — Part No. 807989.

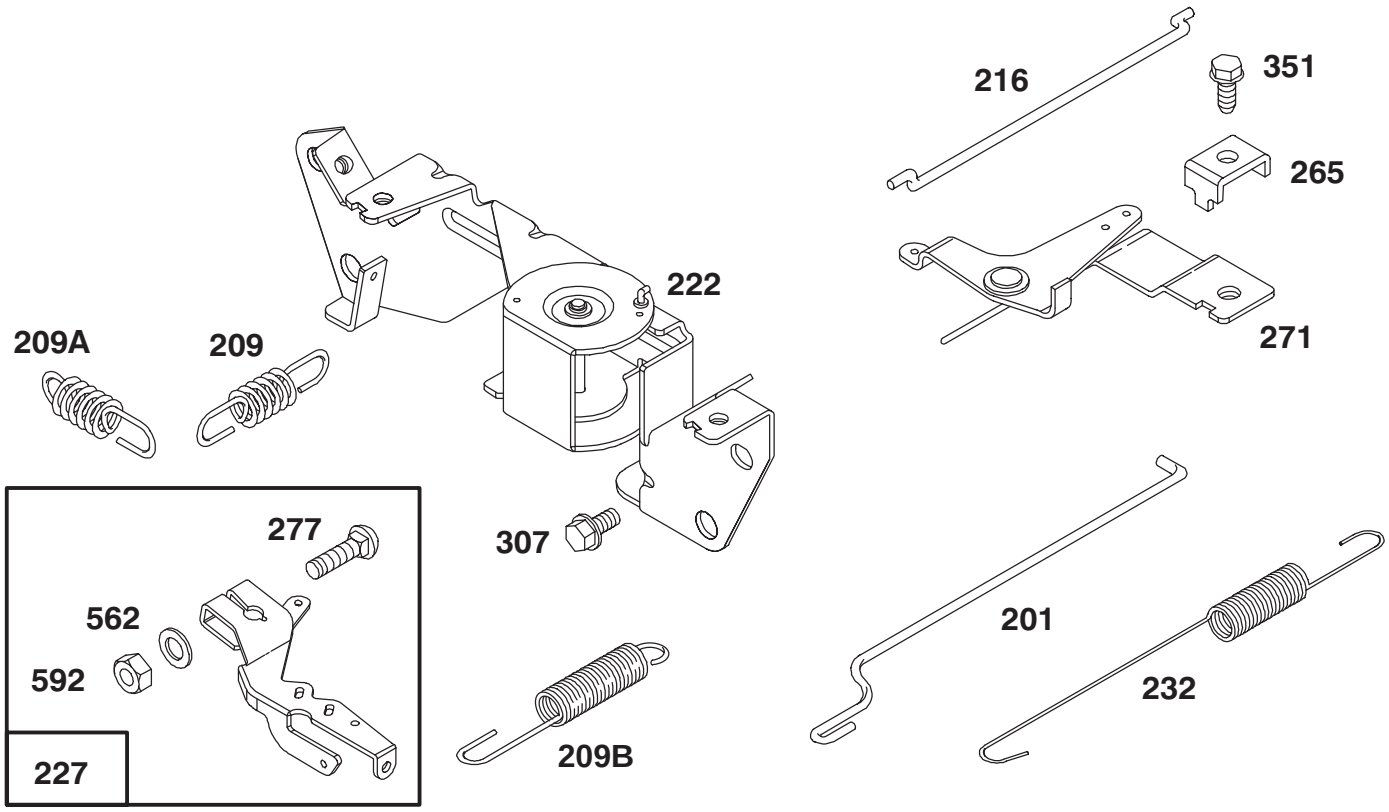


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
304	807898	Housing — Blower	
305	805406	Screw	
307	805025	Screw	
308.1	807868	Cover — Air Guide (Cyl. #1)	
308.2	807869	Cover — Air Guide (Cyl. #2)	
346	93705	Screw	
423	805260	Screw	

Ref. No.	Part No.	Description	No. Used
573	807663	Back Plate Assembly	
657	805009	Screw	
676	397630	Deflector—Exhaust	
727	805505	Shield — Starter	
866	805738	Valley Cover — Air Guide	
879	805841	Cover — Carburetor	
1004	805632	Tube — Air Inlet	

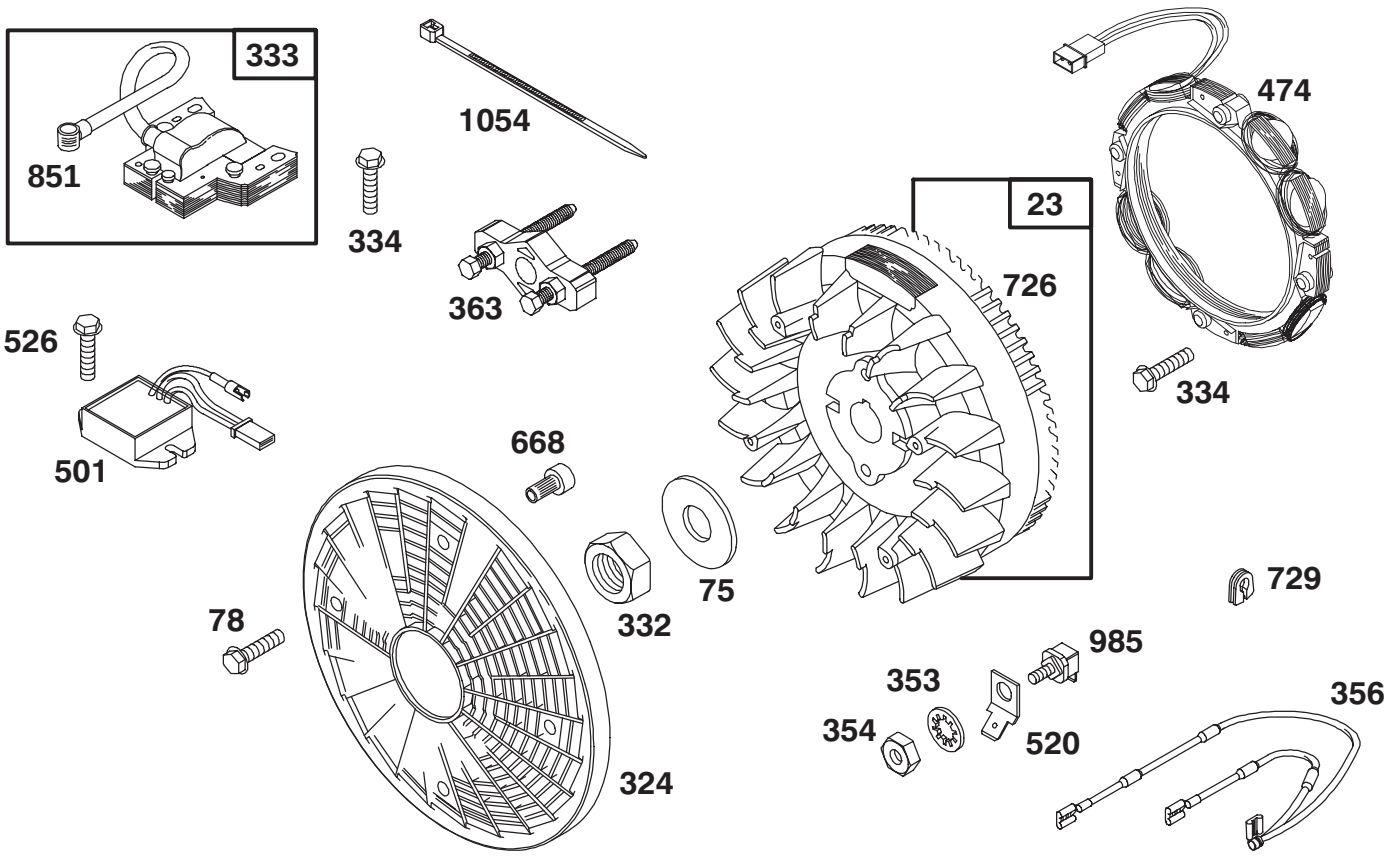


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
201	805480	Link — Governor	
209	805464	Spring — Governor	
209A	805453	Spring — Governed Idle	
209B	805450	Spring — Governed Idle (Secondary)	
216	805439	Link — Choke	
222	807610	Bracket — Governor Control	
227	807528	Lever Assembly — Governor	

Ref. No.	Part No.	Description	No. Used
232	805465	Spring — Governor Link	
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.	

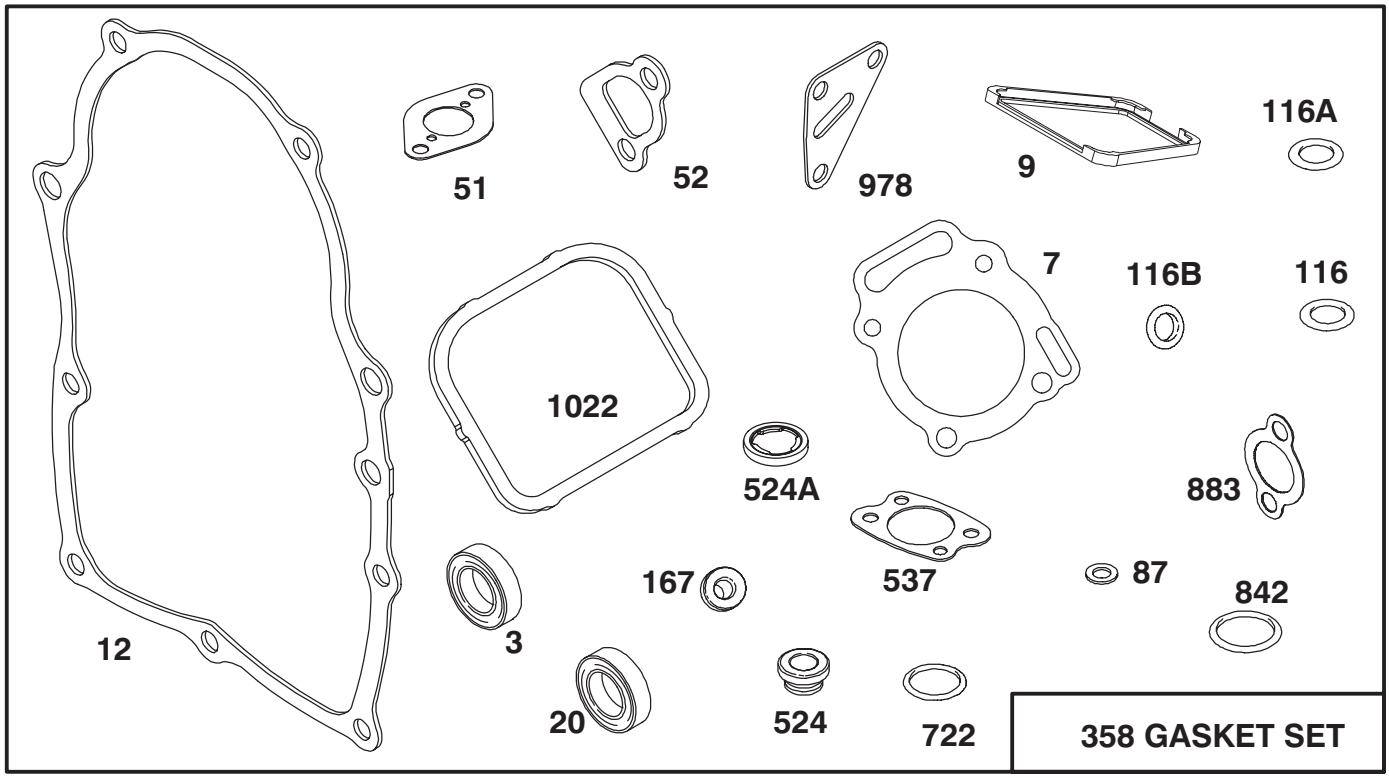


Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
23	808128	Flywheel	
75	805007	Washer — Spring	
78	805447	Screw	
324	280829	Screen — Rotating	
332	805021	Nut — Hex	
333	492341	Armature — Magneto	
334	805407	Screw — Mounting	
353	92791	Lockwasher (Internal Tooth)	
354	90576	Nut — Hex.	
356	493792	Wire Assy.	
363	19203	Puller — Flywheel	

Ref. No.	Part No.	Description	No. Used
474	393295	Stator — Alternator	
501	394890	Regulator — Alternator	
520	93722	Terminal — Ground	
526	805448	Screw — Mtg.	
668	805402	Spacer	
726	808162	Gear — Flywheel Ring	
729	805641	Grommet	
851	221798	Terminal — Ignition Cable	
985	398525	Insulator	
1054	280275	Tie — Cable	



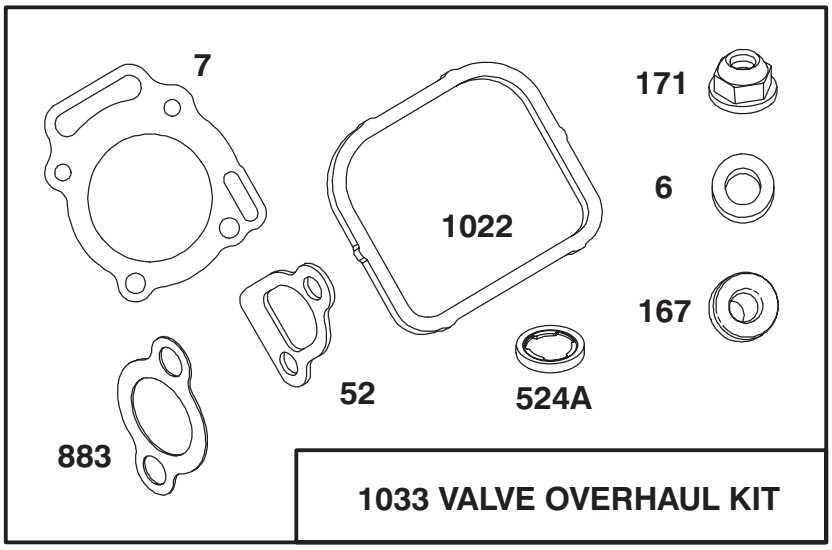
Assemblies include all parts shown in frames.

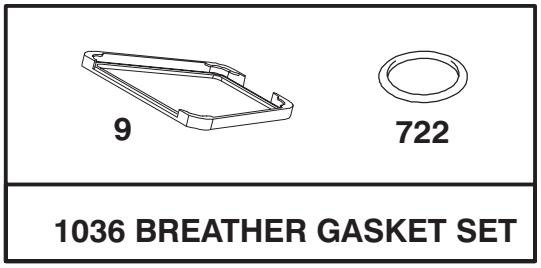
ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

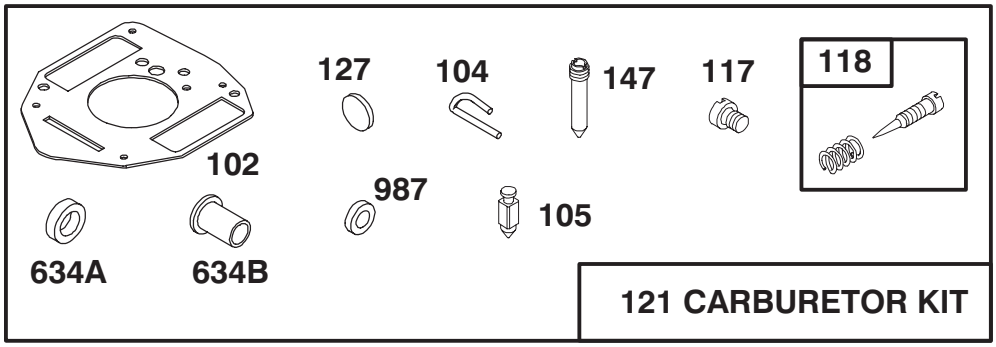
Ref. No.	Part No.	Description	No. Used
*3	805101	Seal — Oil	
*‡7	807986	Gasket — Cylinder Head	
*9	805379	Gasket — Breather	
*12	805112	Gasket — Crankcase Cover	
*20	805049	Seal — Oil	
*51	805264	Gasket — Carburetor Mtg.	
*‡52	805023	Gasket — Intake Manifold	
*87	805054	Seal — Governor Shaft	
*116	805058	O—Ring (Oil Pump)	
*116A	805198	O—Ring (Crankcase Cover)	
*116B	805316	O—Ring (Pick — Up Tube)	

Ref. No.	Part No.	Description	No. Used
‡*167	805420	Washer — Valve Cover	
358	807989	Gasket Set	
*524	805259	Seal — Filler Tube	
‡*524A	271983	Seal — Filler Plug	
*537	805655	Gasket — Air Cleaner	
*722	805483	Seal — Breather Screw	
‡*842	805386	O—Ring	
*883	805024	Gasket — Exhaust Manifold	
*978	805250	Gasket — Oil Filter Adapter	
‡*1022	805028	Gasket — Valve Cover	

*Included in Gasket Set — Part No. 807989.
‡Included in Valve Overhaul Kit — Part No. 807990.







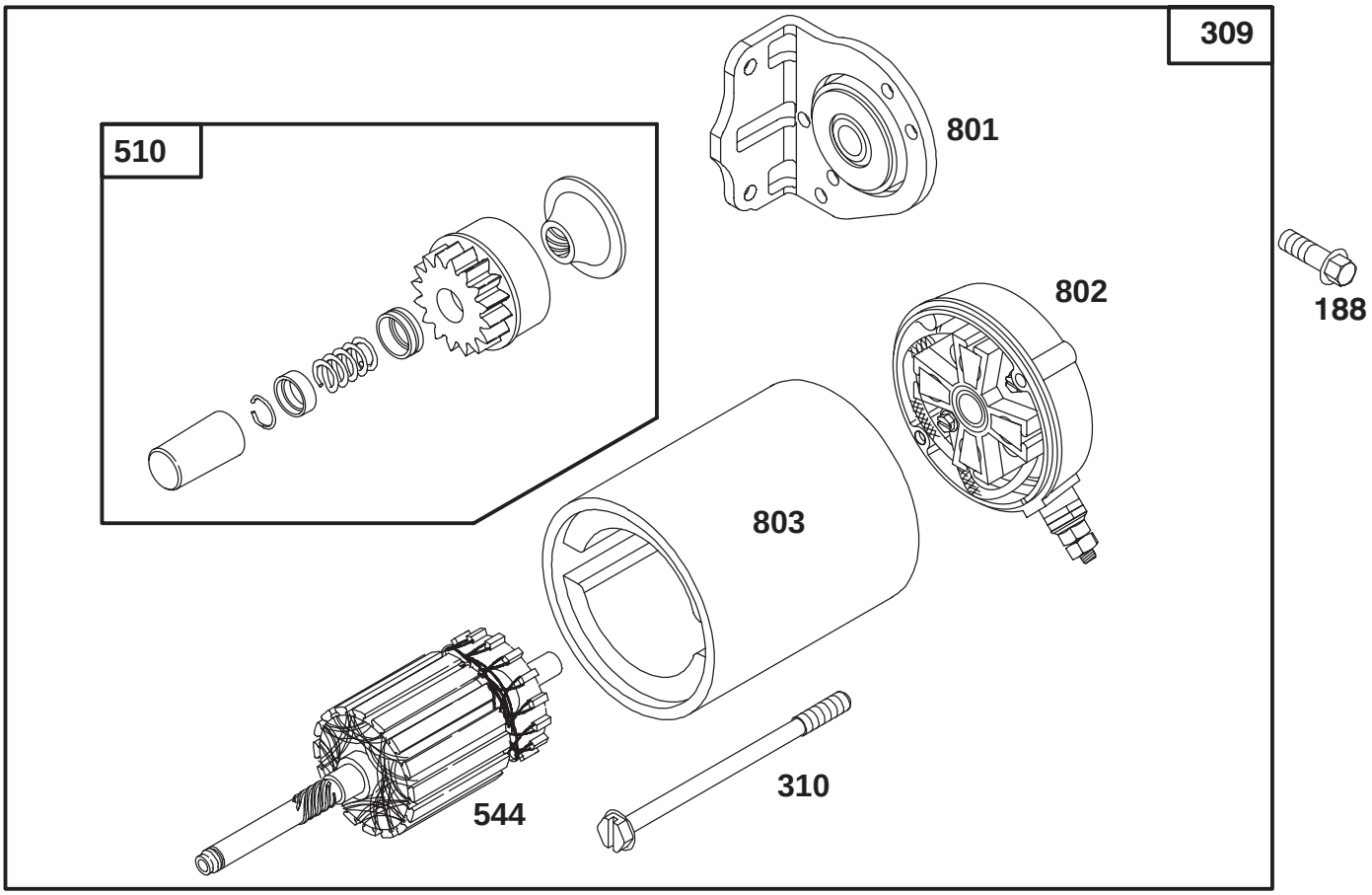
Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
‡6	805193	Washer — Cylinder Head	
*‡7	807986	Gasket — Cylinder Head	
*9	805379	Gasket — Breather	
*‡52	805023	Gasket — Carburetor Mtg.	
†102	805541	Gasket — Intake Elbow	
†104	805545	Pin — Float Hinge	
†105	805547	Valve — Fuel Inlet	
†117	805548	Jet — Main	
†118	807719	Valve — Idle Adjusting Needle	
121	807726	Carburetor 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	
‡*524A	271983	Seal — Filler Plug	
†634A	805557	Collar — Throttle	
†634B	805543	Collar — Choke	
*722	805483	Seal — Breather Screw	
*‡883	805024	Gasket — Exhaust Manifold	
†987	805544	Seal — Shaft	
*‡1022	805028	Gasket — Valve Cover	
1033	807990	Overhaul Kit — Valve	
1036	807688	Gasket Set — Breather	

*Included in Gasket Set — Part No. 807989.
†Included in Carburetor Kit — Part No. 807726.
‡Included in Valve Overhaul Kit — Part No. 807990.



Assemblies include all parts shown in frames.

ENGINE BRIGGS & STRATTON MODEL 303447—0479—01

Ref. No.	Part No.	Description	No. Used
188	805247	Screw — Hex. Head	
309	808106	Motor — Starting	
310	496880	Bolt — Thru	
510	496881	Drive — Starter	
544	496816	Armature — Starter	

Ref. No.	Part No.	Description	No. Used
801	496814	Cap Assy. — Drive	
802	496813	Cap Assy. — Commutator **Includes:** 496887 Brush Set	
803	496815	Housing — Starter	

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	1	24	2
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	34	1	1
3–6657	Clip – Skid	34	4	2
3–6685	Spring – Compression	19	17	1
5–0946	Key – Square	27	12	1
5–0946	Key – Square	28	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	29	20	1
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	29	17	4
10–6850	Drum – Brake	8	6	2
10–6870	Hub – Wheel	8	5	2
10–7070	Key – Square	27	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
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.	26	17	4
12–3270	Screw – Hex. Washer Hd.	10	38	1
12–3270	Screw – Thread Forming	12	50	1
12–9140	Decal	33	1	1
18–6320	Washer – Steering	29	7	4
20–0070	Tube	34	5	1
20–0080	Rod	34	7	1
20–0110	Bracket – Alignment	34	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	33	4	1
23–8840	Puller – Bolt	33	3	1
23–8850	Tube – Support	33	5	1
23–8860	Pin – Bearing Rplcmnt.	33	6	1
23–8880	Driver – Bearing	33	1	2
26–3790	Nut – Lock	8	4	2
27–1960	Hub – Engine	27	21	1
27–1970	Hub – Pump	27	22	1
27–2270	Rod – Brake Adjusting	1	29	2
27–2320	Bearing – Flange	10	7	2
27–2320	Bearing – Flange	2	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	27	15	4
28–1400	Battery	20	11	1
28–3680	Tire	8	2	2
28–3680	Tire	29	9	1
28–4210	Solenoid – Starter	20	5	1
28–7890	Module – Interlock	21	26	1
28–8080	Boot Terminal	20	13	1
29–9080	Handle	33	3	1
29–9090	Hose – Handle	33	4	1
36–4310	Brush	33	5	1
37–8130	Basket – Grass	2	*	3
38–0410	Nut – Hex.	14	53	1
38–0410	Nut – Hex.	16	59	1
42–2680	Race R. Detent	13	46	1
43–2830	Nut – Hex	26	33	1
43–5220	Ring – Retaining	7	10	1
43–5230	Shaft & Clevis	7	11	1
43–5930	Washer – Lock	26	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	27	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
47–6990	Nut – Steering Wheel	17	10	1
48–7610	Screw – Cap Hex. Hd.	24	9	1
48–7620	Screw – Cap Hex. Hd.	26	36	1
49–5430	Rod – Control	10	1	1
49–5430	Rod – Control	1	4	1
49–5880	Shaft – Seat Support	19	27	1
49–6110	Guard – Transfer Rod	1	6	1
49–6120	Pad – Footrest	1	13	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	Assy. – Pivot, Traction	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
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
52–9260	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
56–2230	Hose – Fuel	24	17	1
56–7720	Bolt – Battery	20	17	2
56–7970	Clamp Half – Tube	2	45	2
56–7980	Sleeve – Protective	31	21	3

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
56–7981	Sleeve – Protective	31	22	1
56–7986	Sleeve – Protective	31	19	1
56–7987	Sleeve – Protective	31	20	1
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
58–6520	Decal – Grease	29	36	2
59–6730	Race – Bearing	18	8	2
59–6740	Bearing – Needle Thrust	18	9	1
59–6830	Centering Pin Kit	18	20	1
61–3310	Plate – Logo	20	21	1
62–2420	Bar – Lift	6	8	1
62–2440	Lift Arm Assembly	4	8	1
62–2460	Lift Arm Assembly L.H.	3	29	1
63–3810	Hydraulic Hose Assembly	31	1	1
63–3820	Hydraulic Hose Assembly	31	2	1
63–3830	Hydraulic Hose Assembly	31	13	1
63–3840	Hose – Hydraulic	11	36	1
63–3840	Hydraulic Hose Assembly	31	5	1
63–3850	Hose – Hydraulic	11	31	1
63–3850	Hose – Hydraulic	3	39	1
63–3870	Hydraulic Hose Assembly	31	16	1
63–4020	Tube – Hydraulic	31	17	1
63–4020	Tube – Hydraulic	11	40	1
63–4030	Tube – Hydraulic	31	18	1
63–4030	Tube – Hydraulic	11	41	1
63–4040	Hydraulic Tube Assembly	31	4	1
63–4040	Tube – Hydraulic	11	35	1
63–4050	Fitting – Tee	11	42	2
63–8360	Key – Ignition	21	17	1
63–8410	Washer – Flat	24	4	4
63–8410	Washer – Flat	23	36	3
63–8750	Pin – Pivot	6	9	1
63–8750	Pin – Pivot	4	10	1
63–8750	Pin – Pivot	3	33	1
63–9920	Decal – EEC	20	43	1
65–4860	Head	5	9	1
65–6390	Washer – Thrust	17	13	1
65–8320	Bar – Gauge	2	*	1
66–2950	Gauge – Hourmeter	21	5	1
67–1300	Decal – TORO	20	39	1
67–8113	Cap – End	18	18	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	23	44	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
70–9840	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
72–4790	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	29	11	2
74–3810	Load Plate Assembly	32	9	1
74–3830	Hose – Hydraulic	11	28	1
74–3830	Hydraulic Hose Assembly	31	12	1
74–9100	Pad – Forward Pedal	10	25	1
74–9110	Pad – Reverse Pedal	10	23	1
75–0540	Tether – Cap	23	9	1
75–9440	Hub – Wheel	29	15	1
76–0410	Spring	2	54	1
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
76–1850	Clevis	5	13	1
76–1860	Shaft	5	6	1
77–0480	Screw – Traction Stop	10	34	1
80–9330	Audio Alarm Assembly	21	25	1
83–0010	Engine Assembly	26	15	1
83–0020	Ignition Switch Assembly	21	14	1
83–0030	Control – Throttle	21	12	1
83–0040	Control – Choke	21	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
83–0200	Cover – L.H.	1	17	1
83–0540	Pedal – Traction	10	24	1
83–0580	Rod – Traction Control	10	32	1
83–0630	Arm – Traction Pivot	10	29	1
83–0640	Plate – Footrest	1	12	1
83–0650	Arm – Steering	17	3	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	21	4	1
83–0830	Panel – Control Upper	20	33	1
83–0840	Fender – L.H.	20	19	1
83–0870	Fitting – Hydraulic Straight	23	32	3
83–0910	Hose – Hydraulic	23	30	2
83–0910	Hose – Pump	27	11	2
83–1030	Mount – Engine	26	4	3
83–1040	Washer – Mount	26	2	3
83–1050	Spacer – Mount	26	3	2
83–1060	Adapter – Pump	26	10	1
83–1080	Pipe – Exhaust	26	7	1
83–1100	Harness – Wire (Main)	22	1	1
83–1100	Harness – Wire (Main)	21	8	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
83–1110	Harness – Wire (Engine)	22	2	1
83–1150	Wire – Engine Ground	22	5	1
83–1160	Wire – Solenoid–Starter	22	3	1
83–1170	Hose – Hydraulic	11	22	1
83–1170	Hose – Hydraulic	27	28	1
83–1180	Hose – Hydraulic	11	6	1
83–1180	Hose – Hydraulic	27	8	1
83–1190	Hose – Hydraulic	27	1	2
83–1190	Hose – Hydraulic	11	10	2
83–1200	Tube Assy.	11	5	1
83–1220	Plate – Clamp	8	21	1
83–1270	Seat Support Assembly	19	7	1
83–1350	Hose – Hydraulic	27	7	1
83–1350	Hose – Hydraulic	17	26	2
83–1350	Hose – Hydraulic	29	28	1
83–1350	Hose – Hydraulic	11	45	1
83–1360	Hose – Hydraulic	17	27	1
83–1360	Hose – Hydraulic	29	30	1
83–1370	Hose – Hydraulic	17	28	1
83–1390	Fitting – Fuel Shut–Off	24	15	1
83–1400	Shield – Muffler	26	16	1
83–1420	Column – Steering	17	23	1
83–1430	Hose – Hydraulic	20	23	1
83–1430	Hose – Hydraulic	23	34	1
83–1450	Sensor – Oil Level	23	3	1
83–1460	Solenoid Valve Assembly	23	28	1
83–1470	Washer – Neoprene	23	18	4
83–1520	Screen – Filler	23	6	1
83–1530	Bracket – Alarm	21	23	1
83–1550	Spacer – Tank (Short)	23	17	2
83–1560	Spacer – Tank (Long)	23	23	2
83–1630	Bracket – Muffler Support	26	24	1
83–1640	Rod End Assembly	29	6	1
83–1660	Switch Assembly	21	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
83–1780	Decal – Service	19	34	1
83–1840	Cover – R.H.	19	32	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
83–1940	Guard – Pump	27	30	1
83–2000	Spool – Valve	23	42	1
83–2010	Coil – Valve	23	43	1
83–2030	Plate – Filler	21	3	1
83–2040	Hose – Fuel	24	14	1
83–2041	Hose – Fuel	24	11	1
83–2070	Hose – Valve	23	14	1
83–2080	Hose – Valve–Tank	23	29	1
83–2090	Hose – Overflow	23	15	1
83–2100	Tank – Auxiliary Hydraulic	23	26	1
83–2200	Nut – Special	24	8	1
83–2220	Deflector – Exhaust	26	20	1
83–2230	Screw – Cap Hex. Hd.	26	22	4
83–2240	Arrestor – Spark	26	*	1
83–2250	Guage – Sight	23	25	1
83–2280	Timer – Relay	21	27	1
83–2310	Shield	26	35	1
83–2330	Hydraulic Cylinder Assy.	29	33	1
83–2340	Cap – Threaded	30	2	2
83–2350	Cap – Head, Thread	30	5	2
83–2360	Assembly – Rod	30	9	1
83–2370	Assembly – Barrel	30	12	1
83–2380	Kit – Seal Repair	30	*	1
83–2390	Pad – Tank	23	2	1
83–2400	Spacer – Tank	23	1	2
83–2420	Wire – Solenoid–Battery	22	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 (Japanese)	19	34	1
83–2510	Decal – Steering Arm	17	32	1
83–2520	Decal – Warning (Japenese)	17	5	1
83–2530	Decal – Mow/Lift (Japanese)	1	14	1
83–2540	Decal – Traction (Japanese)	20	38	1
83–2560	Decal – Warning (Japanese)	26	34	1
83–2570	Plate – Control (Japanese)	21	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
84–2203	Control Valve Assembly	16	*	1
84–2203	Control Valve Assembly	11	16	1
84–3180	Decal – Oil (Japanese)	19	33	1
84–5300	Nut – Jam	29	5	1
84–6560	Decal – Danger (Japanese)	4	3	1
84–6560	Decal – Danger (Japanese)	6	3	1
84–6560	Decal – Danger (Japanese)	3	13	1
84–9240	Decal – Service (Spanish)	19	34	1
84–9250	Decal – Service (French)	19	34	1
84–9260	Decal – Service (German)	19	34	1
84–9270	Decal – Service (Swedish)	19	34	1
84–9280	Decal – Service (Italian)	19	34	1
85–6540	Stud – Drive	8	28	8
85–8120	Plate – Engine Mount	26	28	1
86–5360	Repair Kit	7	*	1
86–5390	Seal Kit	5	*	1
86–9820	Frame – Pull Rear	6	1	1
88–9620	Decal – Greensmaster 3100	2	46	1
88–9630	Lift Pivot Bracket R.H.	2	40	1
88–9640	Lift Pivot Bracket L.H.	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
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
92–1180	Seat Assembly	19	5	1
92–2545	Seals – Spool	14	*	1
92–2545	Seals – Spool	16	*	1
92–2546	Wiper – Seal	13	25	4
92–2546	Wiper – Seal	16	64	5
92–2547	Plate – Seal Retainer	15	18	5
92–2547	Plate – Seal Retainer	13	24	4
92–2548	Seals – Spool	14	*	1
92–2548	Seals – Spool	16	*	1
92–2549	Seals – Spool	16	*	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
92–3058	Spring – Centering	13	41	1
92–3148	Spring	15	23	1
92–4063	Plug – Filler Cap	23	7	1
92–5524	Decal – Noise Rating	20	42	1
92–6533	Kit – Cushion	19	35	1
92–6534	Shell	19	36	1
92–7189	Tank – Fuel	24	2	1
92–8020	Adapter – Breather	23	21	1
92–8690	Steering – Valve Assembly	17	24	1
92–8691	Bushing – Seal Gland	18	3	1
92–8695	Seal Kit	18	*	1
92–8696	Screw – Torx Hd.	18	19	7
92–8697	Plate – Wear	18	15	1
92–8795	Body Assembly	32	10	1
92–8796	Pin – Dowel	32	14	2
92–8863	Repair Kit	32	*	1
92–8966	Reservoir – Hydraulic	23	5	1
92–9164	Frame Assembly	20	18	1
92–9176	Frame – Pull L.H.	3	24	1
92–9177	Frame – Pull R.H.	4	1	1
92–9199	Motor – Hydraulic	8	22	2
92–9761	Link – Drive	9	13	7
92–9762	Screw – Cap Hex. Hd.	9	14	1
92–9763	Rotor Set	9	*	1
92–9764	Hydraulic Pump Assembly	27	9	2
92–9766	Plate – Gear 66B	28	14	1
92–9767	Hose – Hydraulic	11	18	2
92–9767	Hose – Hydraulic	4	39	2
92–9772	Shaft – Drive	28	20	1
92–9773	Gear – 66B	28	21	1
92–9774	Idler Shaft – Gear Assy.	28	12	1
93–1386	Section #5 Assembly	16	*	1
93–2524	Fork – Castor	29	19	1
93–2554	Valve – Needle	12	53	1
93–2555	Fitting – Valve Body	11	17	1
93–2556	Needle Valve Assembly	12	*	1
93–3651	Retainer – Boot	13	22	2
93–3651	Retainer – Boot	15	47	3
93–3652	Boot – Spool Assembly	14	*	2
93–3652	Boot – Spool Assembly	16	*	3
93–6668	Decal – Danger	20	45	1
93–7160	Cap – Hydraulic Reservoir	23	8	1
93–7170	Cap – Fuel	24	1	1
93–7252	Decal – C.E. Mark	20	46	1
93–7257	Decal – Service	19	34	1
93–7258	Decal – Service (Norwegian)	19	34	1
93–7259	Decal – Service (Finnish)	19	34	1
93–7260	Decal – Service (Danish)	19	34	1
93–7261	Decal – Service (Dutch)	19	34	1
93–7276	Decal – Danger	20	44	1
93–7629	Pad – Brake	2	49	1
93–7630	Pad – Mow	2	39	1
93–7631	Pad – Lift	2	37	1
93–8061	Plate – Control	21	2	1
93–8062	Decal – Parking Brake	1	9	1
93–8063	Decal – Warning	17	5	1
93–8064	Decal – Danger	4	3	1
93–8064	Decal – Danger	6	3	1
93–8064	Decal – Danger	3	13	1
93–8065	Decal – Traction	20	38	1
93–8067	Decal – Oil	19	33	1
93–8068	Decal – Steering Arm	17	32	1
93–8069	Decal – Warning	26	34	1
93–8075	Decal – Mow/Lift	1	14	1
93–9346	Clamp – Pressure Hose	31	23	6
93–9347	Clamp – Return Hose	31	24	6
93–9898	Decal – Lock	2	57	1
93–9901	Bracket – Lock Out, Mow	2	58	1
93–9903	Pin – Lock Out, Mow	2	56	1
93–9904	Arm – Lock Out, Mow	2	55	1
93–9934	Traction Handle Assembly	10	12	1
93–9936	Bracket – Cable	10	44	1
93–9937	Cable – Traction Return	10	45	1
94–2690	Filter – Fuel	24	13	1
94–2694	Cover – R.H.	20	2	1
94–2959	Ball Joint Receiver Assy.	4	4	2
94–2959	Ball Joint Receiver Assy.	6	4	2
94–2959	Ball Joint Receiver Assy.	3	25	2
94–3506	Reel Motor Assembly	31	8	3
94–3507	Cover Assembly	32	4	1
94–3508	Drive Shaft Assembly	32	7	1
94–3509	Idler Gear Assembly	32	6	1
94–4248	Collar Spool	15	26	1
94–5434	Spool #5	15	1	1
94–5586	Bar – Lift L.H.	3	30	1
94–5588	Bar – Lift, R.H.	4	9	1
94–6960	Clamp – Mounting	21	9	1
217–60	Rim	8	3	2
217–60	Rim	29	10	1
218–461	Nut – Hex.	21	16	1
218–461	Nut – Hex.	19	25	2
218–498	Nut – Hex.	21	19	2
218–594	Fuse – 20 Amp	21	7	1
2112–11	Clamp – Muffler	26	14	1
232–24	Stem – Valve	8	1	2
232–24	Valve Stem w/Cap	29	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	27	6	1
237–21	Seal – O–Ring	11	19	6
237–21	Seal – O–Ring	17	29	4
237–21	Seal – O–Ring	29	31	2
237–22	Seal – O–Ring	27	2	3
237–22	Seal – O–Ring	11	11	6
237–22	Seal – O–Ring	31	11	5
237–30	Seal – O–Ring	31	3	5
237–30	Seal – O–Ring	11	7	2
237–30	Seal – O–Ring	19	19	1
237–30	Seal – O–Ring	27	27	1
237–35	Seal – O–Ring	6	11	2
237–42	Seal – O–Ring	27	4	4
237–42	Seal – O–Ring	31	9	3
237–42	Seal – O–Ring	11	15	4
237–42	Seal – O–Ring	17	31	4
237–54	O–Ring	15	3	6
237–54	O–Ring	13	6	8
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	29	32	2
237–78	Seal – O–Ring	3	38	2
237–78	Seal – O–Ring	4	38	2
237–79	Seal – O–Ring	31	7	3
237–79	Seal – O–Ring	11	9	4
237–79	Seal – O–Ring	23	11	5
237–80	Seal – O–Ring	23	4	1
237–80	Seal – O–Ring	8	13	4
237–80	Seal – O–Ring	27	25	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.
237–80	Seal – O–Ring	11	32	3
237–81	Seal – O–Ring	11	38	1
237–101	Seal – O–Ring	20	26	2
237–123	Seal – O–Ring	23	24	1
237–143	Grommet	20	40	2
237–177	Seal – O–Ring	23	33	3
240–11	Grommet	24	3	4
240–11	Grommet	23	37	3
242–50	Nut – Lug	29	8	4
242–50	Nut – Lug	8	29	8
2410–18	Plug	33	2	1
2410–73	Retainer – Tether	23	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	27	10	2
2412–34	Clamp – Hose	20	24	2
2412–34	Clamp – Hose	23	31	3
2412–36	Clamp – Hose	23	13	4
2412–36	Clamp – Hose	24	16	2
2412–39	Clamp – R	21	28	1
2412–41	Clamp – R	24	5	3
2412–41	Clamp–R	12	47	2
2412–94	Clamp – R	24	10	1
2412–108	Clamp – Hose	24	12	4
2412–133	Clamp – R	19	4	2
2412–141	Clamp – Hose	23	41	2
250–6	Tie – Cable	26	*	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	29	12	2
254–61	Cup – Bearing	29	3	2
254–70	Cone – Bearing	29	4	2
254–78	Cone – Bearing	29	13	2
254–79	Cup – Bearing	29	14	2
256–2	Bushing – Sleeve	10	20	2
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
283–62	Pin – Clevis	10	46	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	30	13	1
302–5	Fitting – Grease	1	27	1
302–5	Fitting – Grease	4	29	4
302–5	Fitting – Grease	2	44	1
302–5	Fitting – Grease Straight	3	15	4
302–5	Fitting – Grease Straight	6	37	5
302–11	Fitting – Grease	29	2	1
302–55	Fitting – Grease	29	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.	23	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.	21	21	1
321–4	Screw – Cap Hex. Hd.	26	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.	23	40	2
321–11	Screw – Cap Hex. Hd.	2	43	1
321–11	Screw – Hex. Washer Hd.	8	17	1
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.	27	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.	26	32	6
322–4	Screw – Cap Hex. Hd.	27	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.	27	18	4
322–8	Screw – Cap Hex. Hd.	26	21	2
322–14	Screw – Cap Hex. Hd.	23	20	2
322–14	Screw – Cap Hex. Hd.	11	39	3
322–29	Screw – Cap Hex. Hd.	23	22	2
323–4	Screw – Cap Hex. Hd.	17	7	2
323–6	Screw – Cap Hex. Hd.	24	6	3
323–6	Screw – Cap Hex. Hd.	23	35	3
323–8	Screw – Cap Hex. Hd.	27	24	2
323–12	Screw – Cap Hex. Hd.	26	1	3
323–13	Screw – Cap Hex. Hd.	1	5	4
324–7	Screw – Cap Hex. Hd.	26	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 – Hex.	28	1	4
3217–6	Nut – Hex.	21	33	3
3217–6	Nut – Hex.	10	48	1
3217–7	Nut – Hex	13	33	3
3217–12	Nut – Lock	29	26	1
3217–25	Nut – Hex.	21	35	2
3217–27	Nut – Hex.	21	10	2
3218–13	Nut – Jam	20	8	2
3219–2	Nut – Hex.	34	6	1
3219–14	Nut – Hex.	20	7	2
3219–18	Nut – Hex.	33	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	29	21	2
3220–20	Nut – Jam L.H. Thread	10	31	1
3229–22	Bolt – Carriage	1	10	2
3234–1	Screw – Cap Hex. Hd.	2	53	4
3234–1	Screw – Hex. Flange Hd.	10	6	4
3234–4	Screw – Cap Hex. Hd.	12	46	1
3241–2	Screw – Set Square Hd.	27	19	2
3241–6	Screw – Set Square Hd.	27	13	2
3245–1	Screw – Set, Hex. Soc. Hd.	30	1	2
3246–3	Screw – Set	17	12	1
3253–3	Washer – Lock	26	26	4
3253–3	Washer – Lock	23	39	2
3253–3	Washer – Lock	16	57	4

*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.
3253–4	Washer – Lock	19	2	2
3253–4	Washer – Lock	20	9	2
3253–6	Washer – Lock	26	29	4
3253–21	Washer – Lock	27	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
3254–5	Washer – Lock	21	15	1
3254–6	Washer – I.T.L.W.	10	18	2
3254–10	Washer – Lock, Int. Tooth	21	31	2
3255–7	Washer – Lock, Int. Tooth	21	29	1
3255–8	Washer – Lock, Int. Tooth	34	9	1
3255–20	Washer – Lock, Ext. Tooth	21	34	2
3255–24	Washer – Lock, Ext. Tooth	21	32	3
3256–1	Washer – Flat	26	18	8
3256–1	Washer – Flat	21	20	8
3256–1	Washer – Flat	2	51	9
3256–22	Washer – Flat	20	3	5
3256–22	Washer – Flat	8	30	2
3256–22	Washer – Flat	23	45	1
3256–22	Washer – Flat	12	52	1
3256–23	Washer – Flat	3	2	3
3256–23	Washer – Flat	27	17	8
3256–23	Washer – Flat	23	19	4
3256–23	Washer – Flat	4	20	3
3256–23	Washer – Flat	26	23	2
3256–23	Washer – Flat	6	28	3
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	3	36	2
3256–26	Washer – Flat	4	12	1
3256–26	Washer – Flat	6	20	1
3256–26	Washer – Flat	3	31	1
3256–26	Washer – Flat	17	34	2
3256–28	Washer – Flat	29	27	1
3256–38	Washer – Flat	2	35	6
3256–63	Washer – Flat	24	7	1
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
3272–10	Pin – Cotter	10	47	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	29	1	1
3273–26	Screw – Hex. Socket Hd.	21	18	4
3274–7	Screw – Socket Hd.	26	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
3274–52	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
3274–64	Screw – Hex. Socket Hd.	20	4	3
3274–69	Screw – Hex. Socket Hd.	21	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
3284–3	Pin – Groove	19	15	1
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	26	8	3
3290–378	Tie – Cable	26	*	2
3290–379	Tie – Cable	6	46	1
3290–470	Screw – Flat Hd.	20	22	2
3296–4	Nut – Lock	10	22	2
3296–16	Nut – Lock	19	11	1
3296–16	Nut – Lock	1	21	2
3296–16	Nut – Lock	21	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	21	11	4
3296–29	Nut – Lock	19	8	4
3296–29	Nut – Lock	27	14	4
3296–29	Nut – Lock	10	16	3
3296–29	Nut – Lock	6	29	1
3296–39	Nut – Lock	1	20	2
3296–42	Nut – Lock	8	25	8
3296–59	Nut – Lock	10	15	4
3296–59	Nut – Lock	2	34	8
3296–67	Nut – Lock	29	25	1
32103–12	Nut – Wing	20	14	2
32104–76	Screw – Self Tapping	20	1	5
32108–100	Screw – Flat Hd.	8	16	1
32120–8	Ring – Retaining	5	10	1
32121–6	Pin – Roll	10	39	1
32121–6	Pin – Roll	2	41	1
32121–35	Pin – Roll	2	32	8
32121–45	Pin – Roll	19	14	1
32121–45	Pin – Roll	10	28	1
32121–51	Pin – Roll	10	43	1
32122–35	Screw – Truss Head	34	8	1
32128–20	Nut – Flange Lock	11	24	3
32128–20	Nut – Flange Lock	10	27	1
32128–20	Nut – Flange Lock	27	29	2
32128–20	Nut – Flange Lock	26	31	8
32128–20	Nut – Lock, Flange	34	3	1
32128–33	Nut – Flange Lock	1	18	2
32128–33	Nut – Lock	8	32	1
32136–9	Nut – Hex. Slotted	29	34	1
32141–111	Nut Flange Lock	1	11	1
32144–21	Screw – Round Hd.	17	8	2
32148–6	Insert – Threaded	1	19	8
32149–2	Nut – Keps	20	37	2
32149–7	Nut – Keps	20	41	2
32151–41	Ring – Retaining	32	13	1
32152–10	Nut – Hex.	7	2	1
32152–10	Nut – Lock	5	2	1
340–1	Fitting – Hydraulic Straight	17	30	4
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˚	31	10	2
340–77	Fitting – Hydraulic 90˚	11	14	2
340–82	Fitting – Hydraulic 90˚	27	5	1
340–87	Fitting – Hydraulic 45˚	27	3	3
340–87	Fitting – Hydraulic 45˚	31	15	1
340–98	Fitting – Hydraulic 90˚	31	14	3

*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.
340–101	Fitting – Hydraulic 45˚	11	8	1
340–103	Fitting – Hydraulic 45˚	6	12	2
340–105	Fitting – Hydraulic 90˚	27	26	1
340–132	Fitting – Hydraulic 90˚	29	29	2
340–137	Fitting – Hydraulic 45˚	11	44	1
340–138	Fitting – Hydraulic 45˚	11	12	2
351–78	Edging	19	40	1
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
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	3
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
353–531	Poppet Assembly	15	31	2
353–531	Poppet Assy.	13	14	2
353–550	Plug – Hydraulic	23	38	1
353–550	Plug Assembly	15	13	1
353–563	Fitting – Hydraulic Straight	20	25	1
353–564	Fitting – Hydraulic 90˚	20	31	1
353–575	Boot – Dust Cap	13	21	2
353–575	Boot – Dust Cap	15	46	3
353–579	Spring	13	45	1
353–599	Pin – Dowel	32	3	2
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
353–762	Spud – Detent Out	14	50	1
353–763	Cap – Adjustment	13	44	1
353–766	Relief WH (2000) PSI Assy.	14	*	1
353–768	Section #1 Complete	14	*	1
353–772	Left End Cover	13	34	1
353–780	Bonnet – R. Detent	13	42	1
353–780	Positioner – R. Detent (Out)	14	*	1
353–808	Collar – Spring	15	24	1
353–830	O–Ring	15	25	1
353–831	Spring	15	21	1
353–833	Positioner 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	Plus 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
353–855	Spring	13	18	2
353–855	Spring	15	44	1
353–884	Key – Woodruff	28	19	4
353–886	Ring – Retaining	28	18	2
353–922	Seal – Ring	28	23	10
353–923	Bearing Plate Assembly	28	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
353–967	Gear – 33B	28	24	6
353–969	Plate – Gear 33B	28	25	3
354–2	Body Assembly	28	15	1
354–3	Bearing Plate Assembly	28	22	1
354–4	Bearing Plate Assembly	28	28	1
354–5	Adapter – Splined	28	27	1
354–6	Plate – Gear 18B	28	30	1
354–7	Cover Assembly	28	31	1
354–8	Drive Shaft – Gear Assy.	28	29	1
354–9	Idler Shaft – Gear Assy.	28	5	1
354–11	Pin – Dowel	28	4	2
354–12	Pin – Dowel	28	6	2
354–13	Pin – Dowel	28	11	4
354–14	Pin – Dowel	28	13	2
354–15	Seal – Shaft	28	17	1
354–16	Washer – Lock	28	2	4
354–17	Stud – Threaded	28	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	13	48	1
354–35	Gasket	28	32	1
354–46	Ring – Seal	32	8	1
354–50	Screw – Hex Socket Hd.	32	1	4
354–51	Washer	32	2	4
354–120	Fitting – Hydraulic 90˚	23	27	3
354–121	Fitting – Hydraulic Straight	23	12	1
354–122	Disc – Seal	16	52	1
354–129	Anticavitation Check Assy.	16	*	1
354–131	Section #3 Assembly	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'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 SERIAL NUMBERS

The Greensmaster 3100 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 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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Japanese parts kit number 83–2600 contains all of the individual parts on the preceding pages designated as (Japanese).

MAINTENANCE RECORD

Date								

MAINTENANCE RECORD

Date								

MAINTENANCE RECORD

Date								