FORM NO. 3317–745

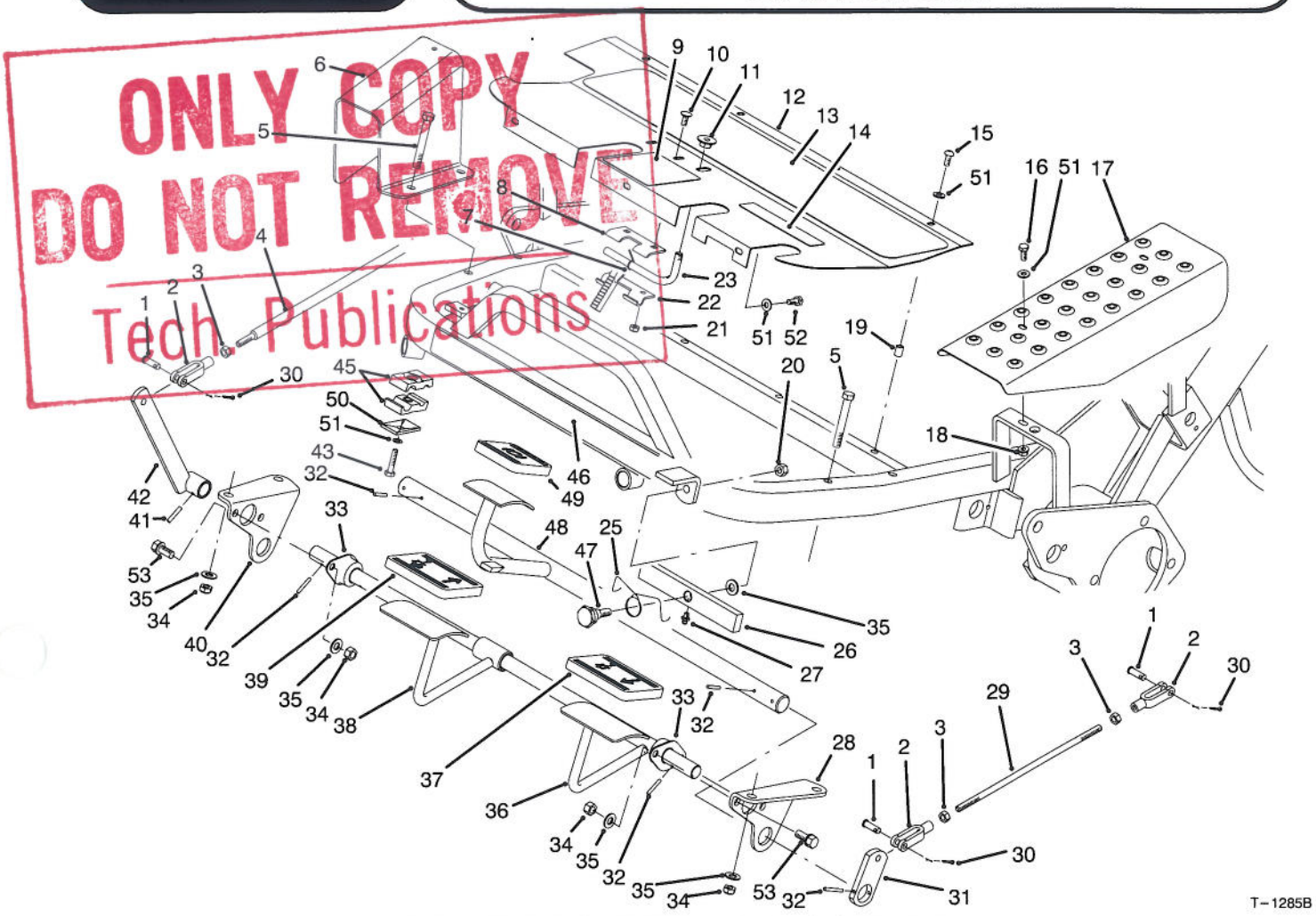
TORO®

MODEL NO. 04352–50001 & UP

PARTS CATALOG

# GREENSMASTER® 3100
## TRACTION UNIT

ONLY COPY
DO NOT REMOVE
Tech. Publications




## CONTROL PEDAL ASSEMBLY

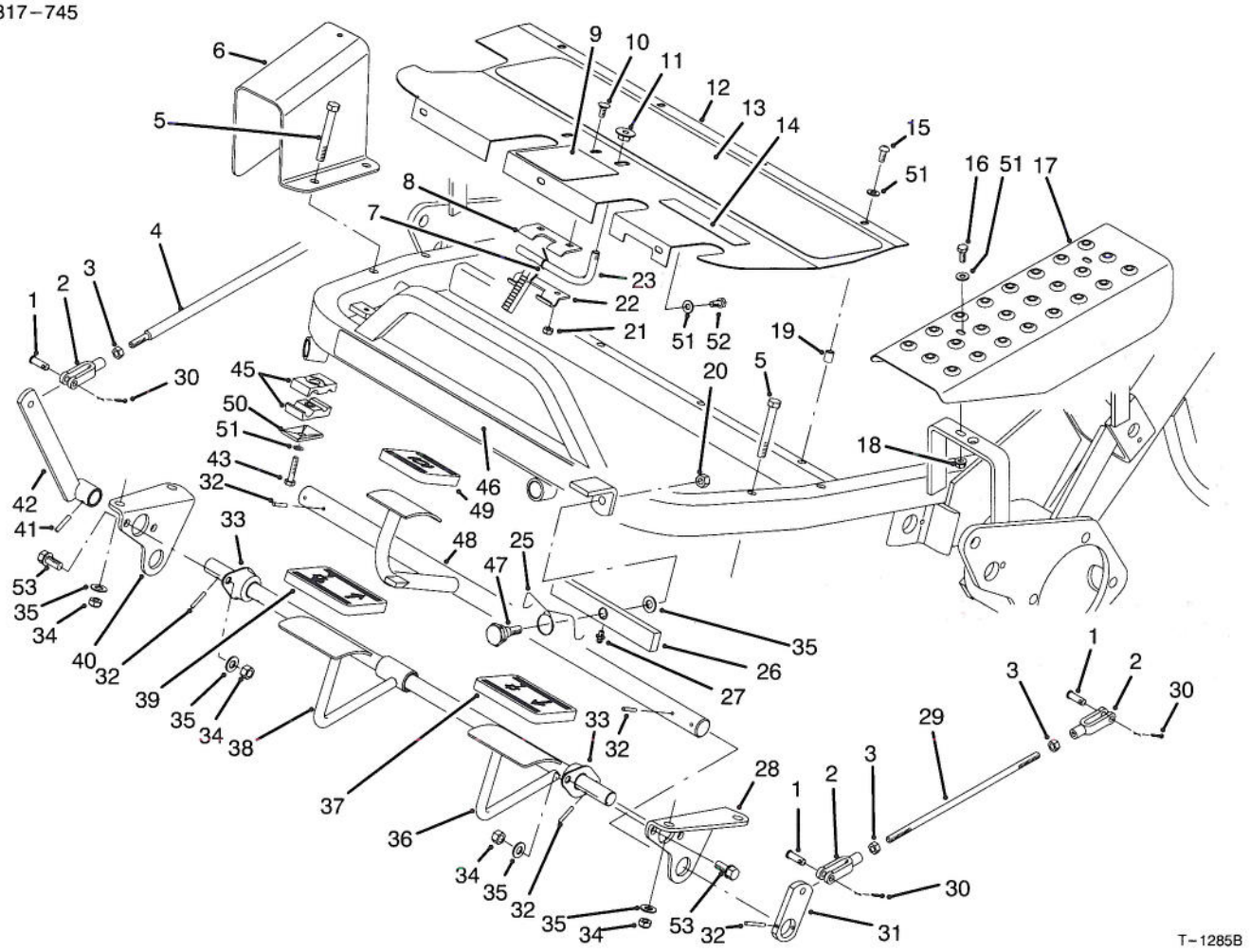
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 1 | 283–61 | Pin – Clevis | 5 |
| 2 | 282–2 | Clevis – Adjusting | 5 |
| 3 | 3220–2 | Nut – Jam | 5 |
| 4 | 49–5430 | Rod – Control | 1 |
| 5 | 323–13 | Screw – Cap Hex. Hd. | 4 |
| 6 | 49–6110 | Guard – Transfer Rod | 1 |
| 7 | 10–8140 | 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 | 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 |
| 32 | 32121–35 | Pin – Roll | 8 |
| 33 | 27–2320 | Bearing – Flange | 2 |

©The TORO Company – 1995
*All Rights Reserved*

TPS

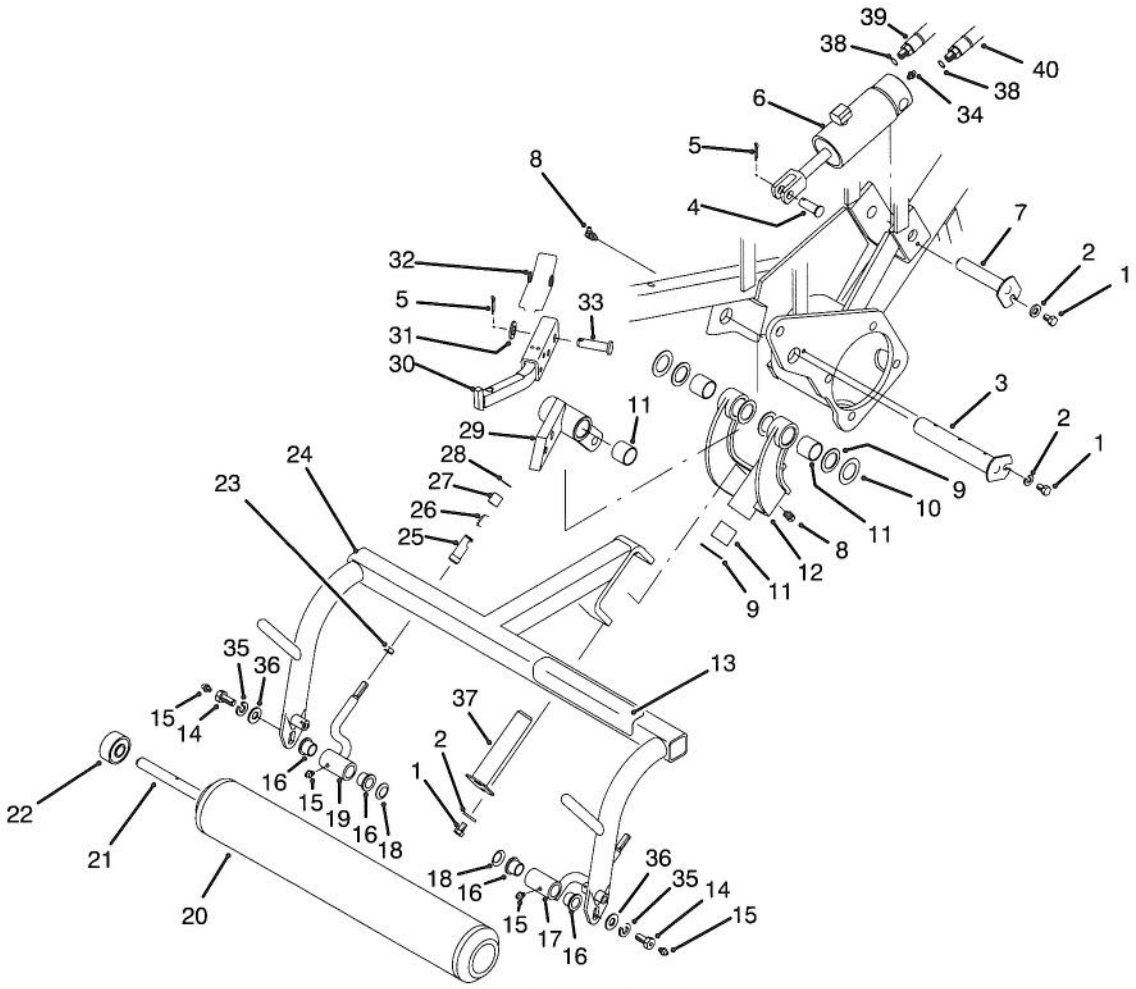
3317–745




# 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 | 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 | 3256–22 | Washer – Flat | 1 |

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 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 | 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 |
| * | 37–8130 | Basket – Grass | 3 |
| * | 65–8320 | Bar – Gauge | 1 |

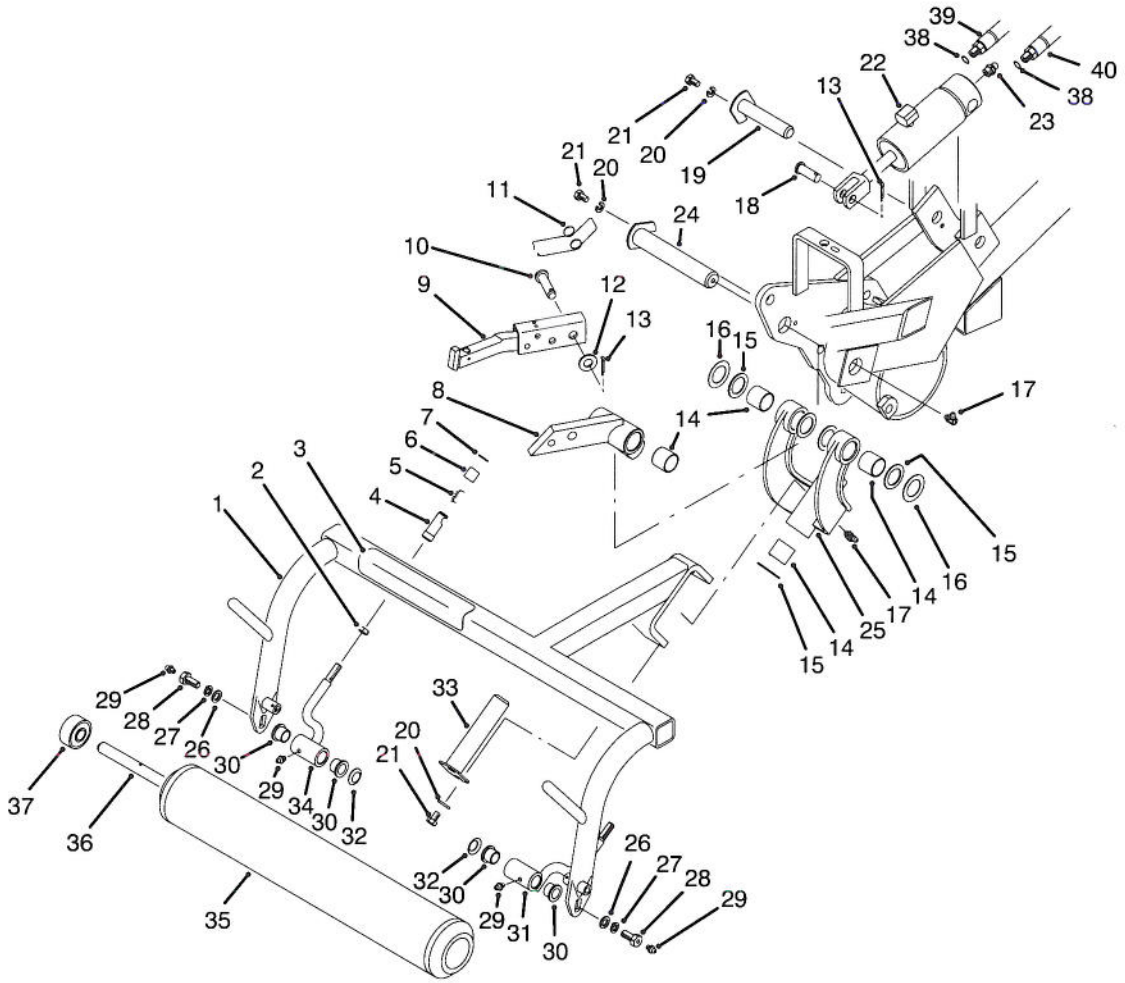



T–1283

# 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 | 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 |

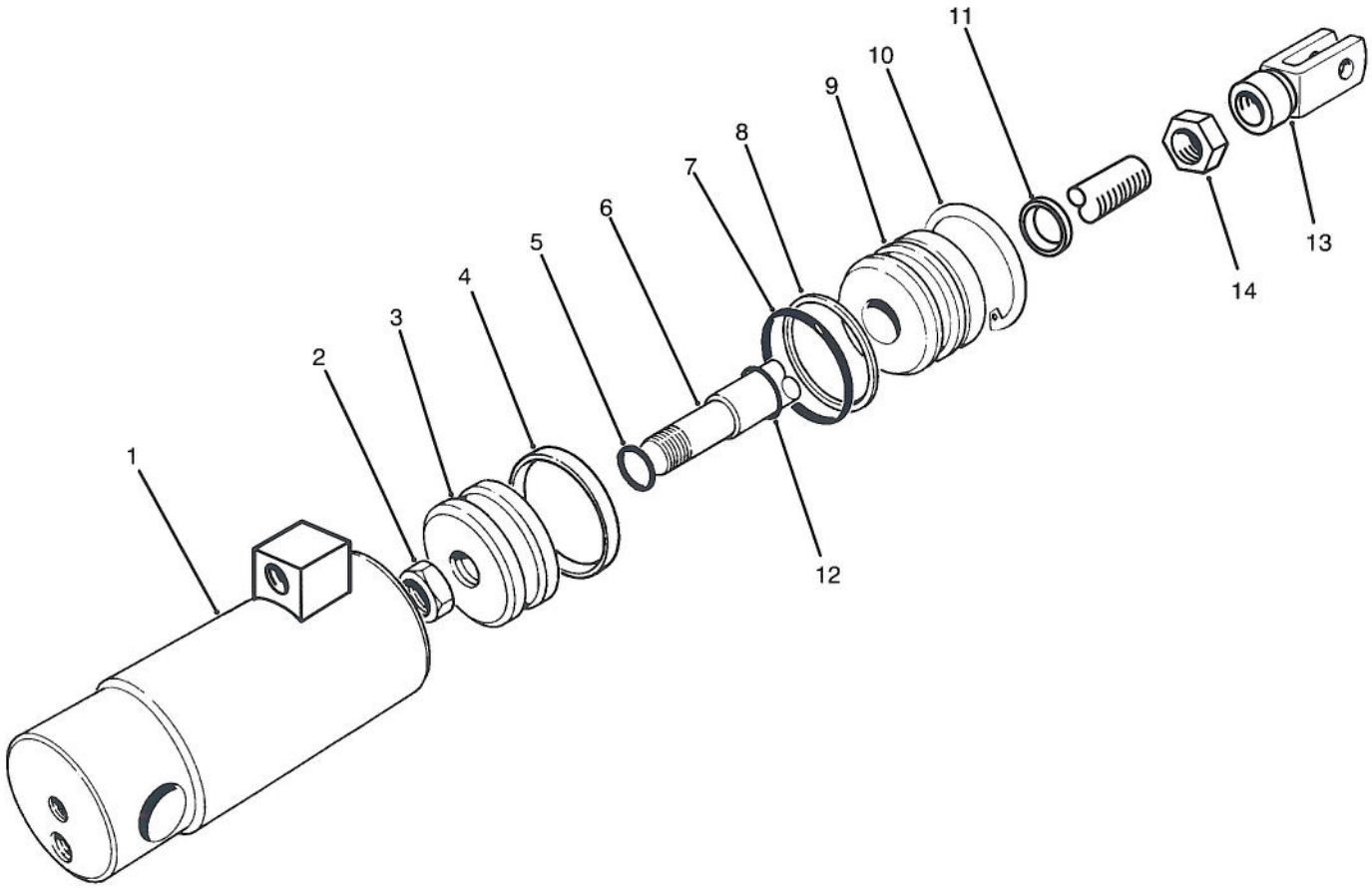
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 21 | 21–8470 | Shaft – Roller | 1 |
| 22 | 251–141 | Bearing – Ball | 2 |
| 23 | 3220–3 | Nut – Jam | 2 |
| 24 | 92–9176 | Frame – Pull L.H. | 1 |
| 25 | 8–7710 | Ball Joint Receiver Assy. (Incl. Ref. #26–28) | 2 |
| 26 | | Spring – 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 |




# 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 | 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 |



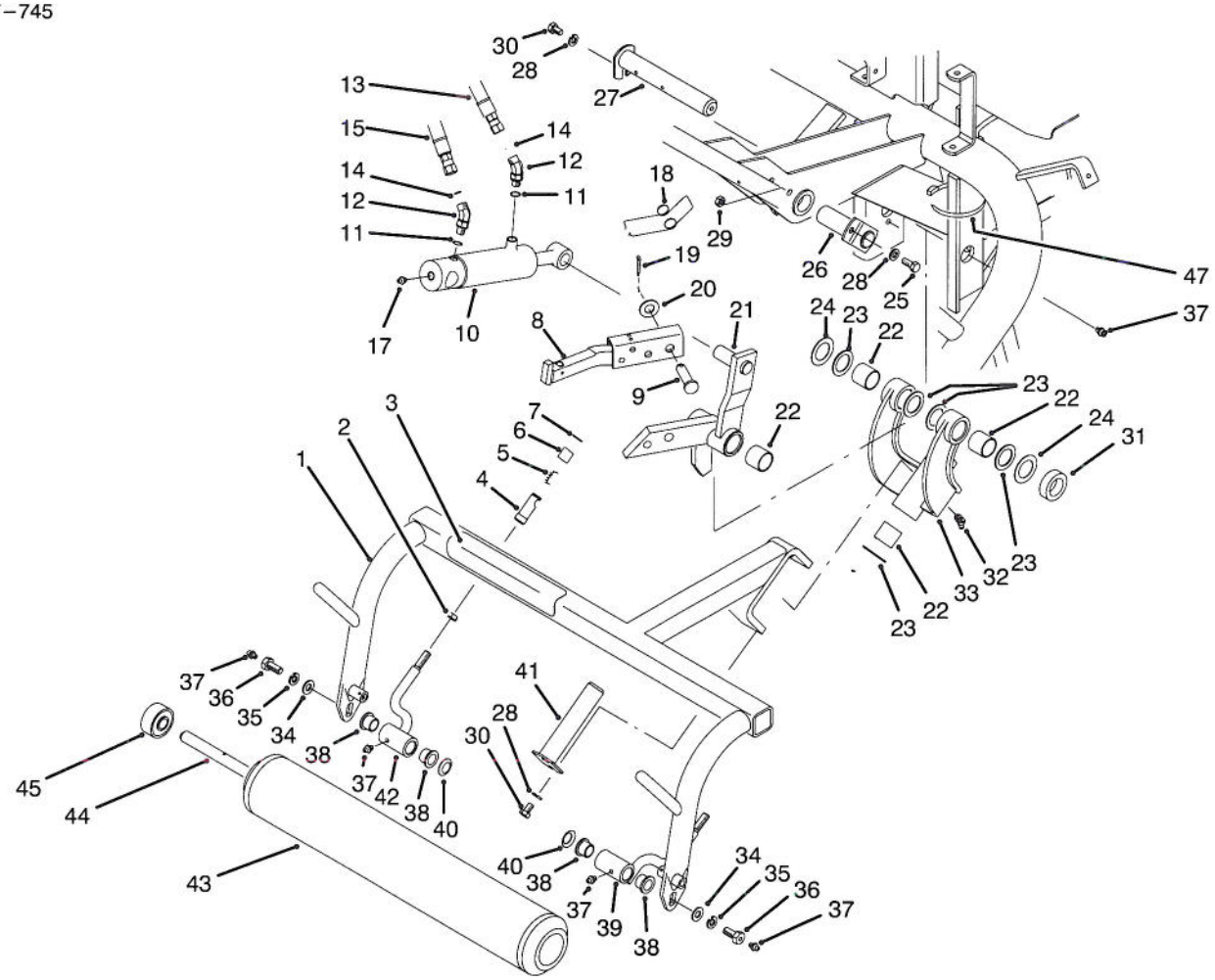

T–1246

# 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 |

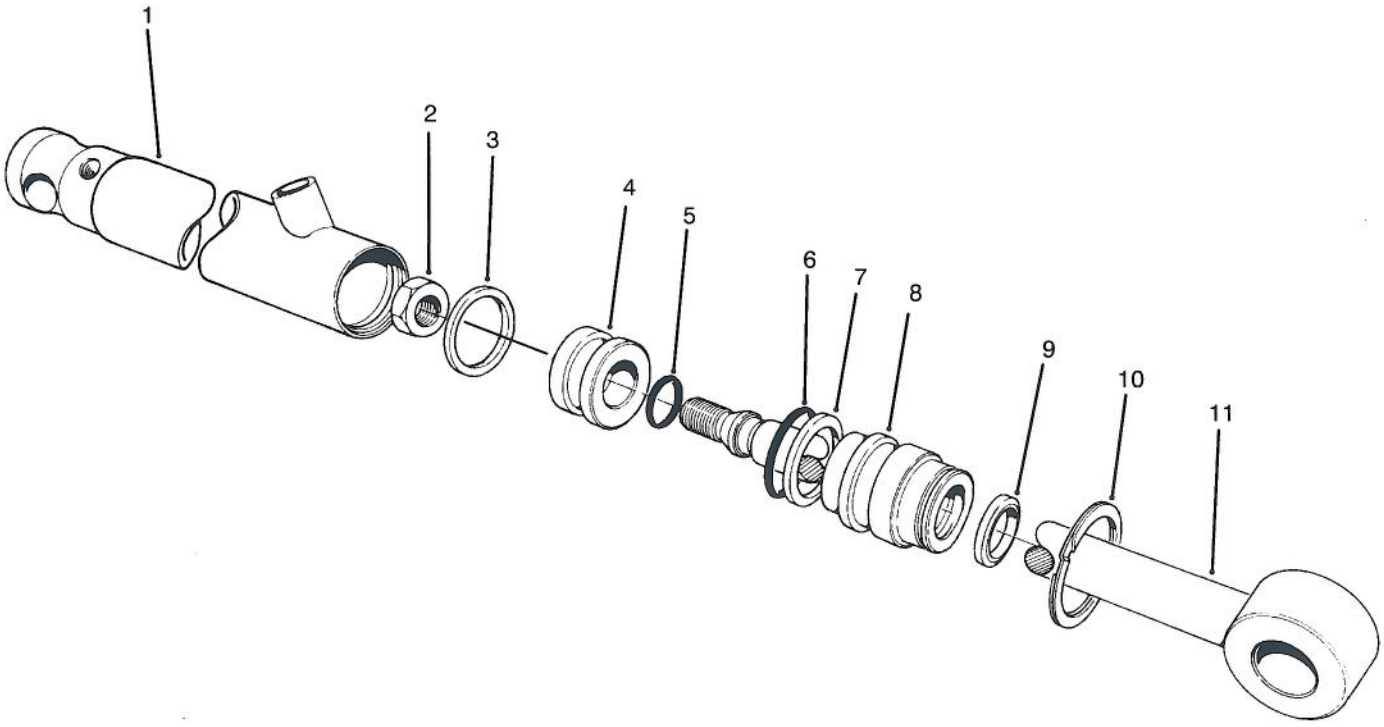
*Not Illustrated




# 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 | 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 | 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 |
| 47 | 3290–379 | Tie – Cable | 1 |



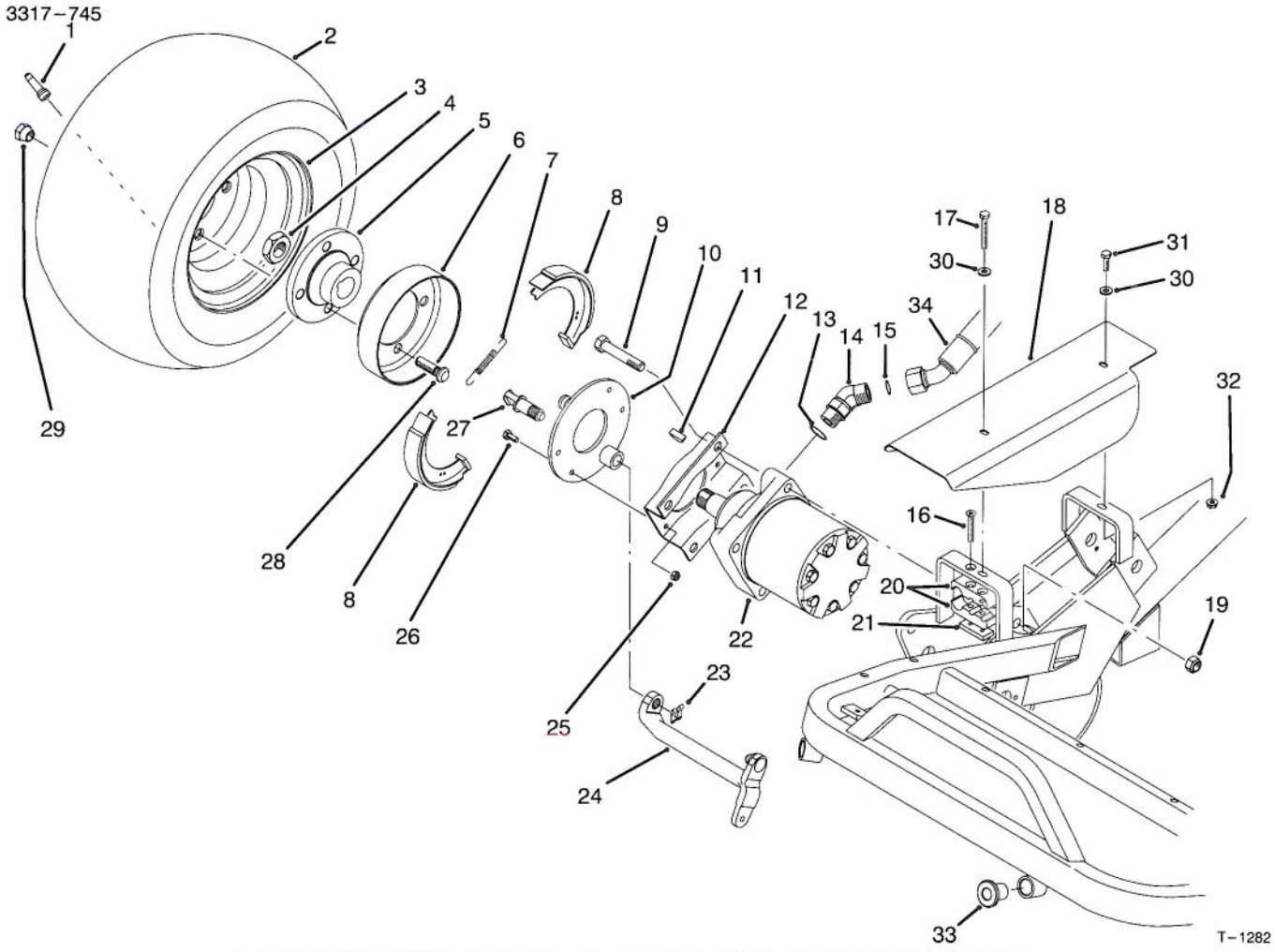

T–0640

# 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 |
| 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

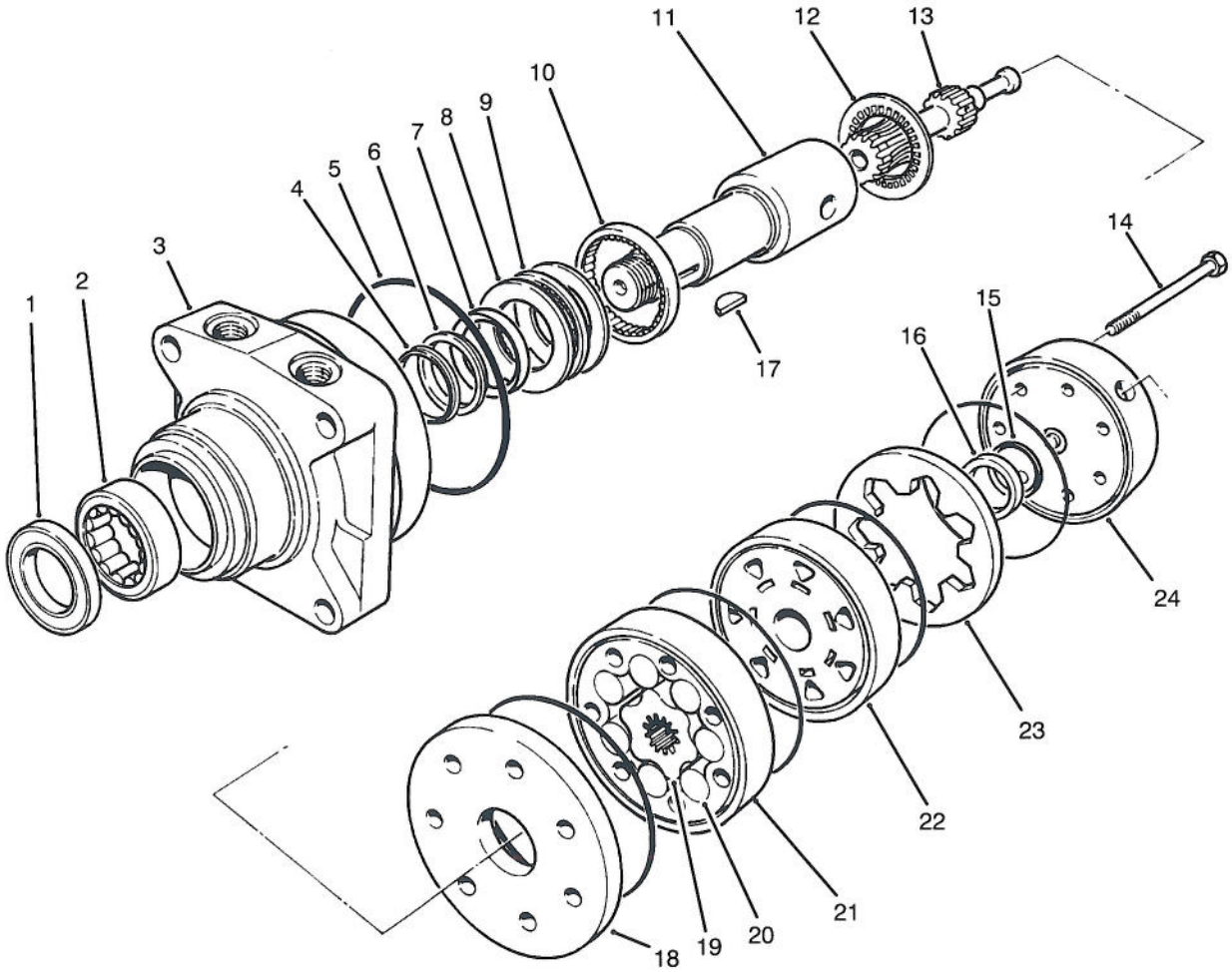



# FRONT WHEEL & BRAKE ASSEMBLY

| 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



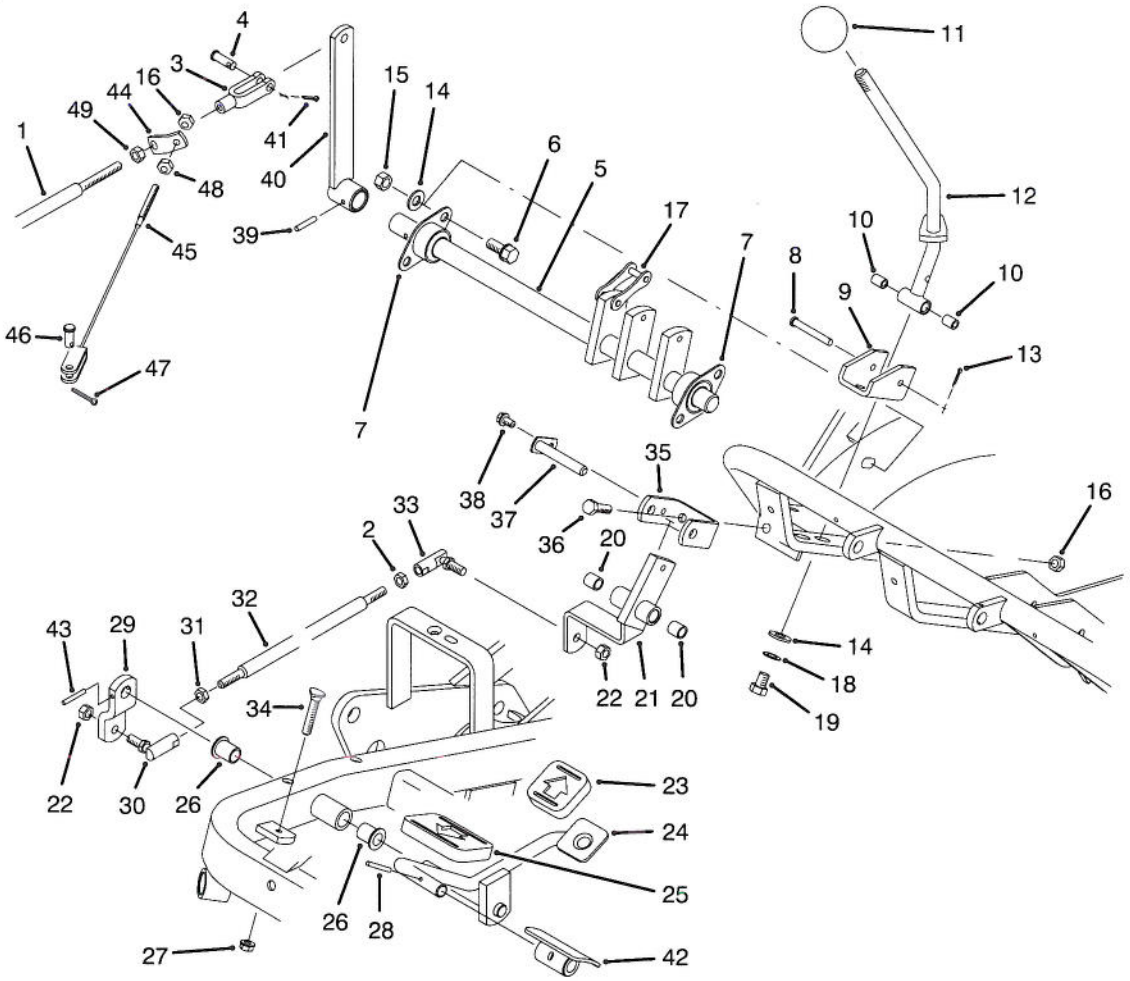

T–0983

# 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 | 1 |
| 14 | 92–9762 | Screw – Cap Hex. Hd. | 7 |
| 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

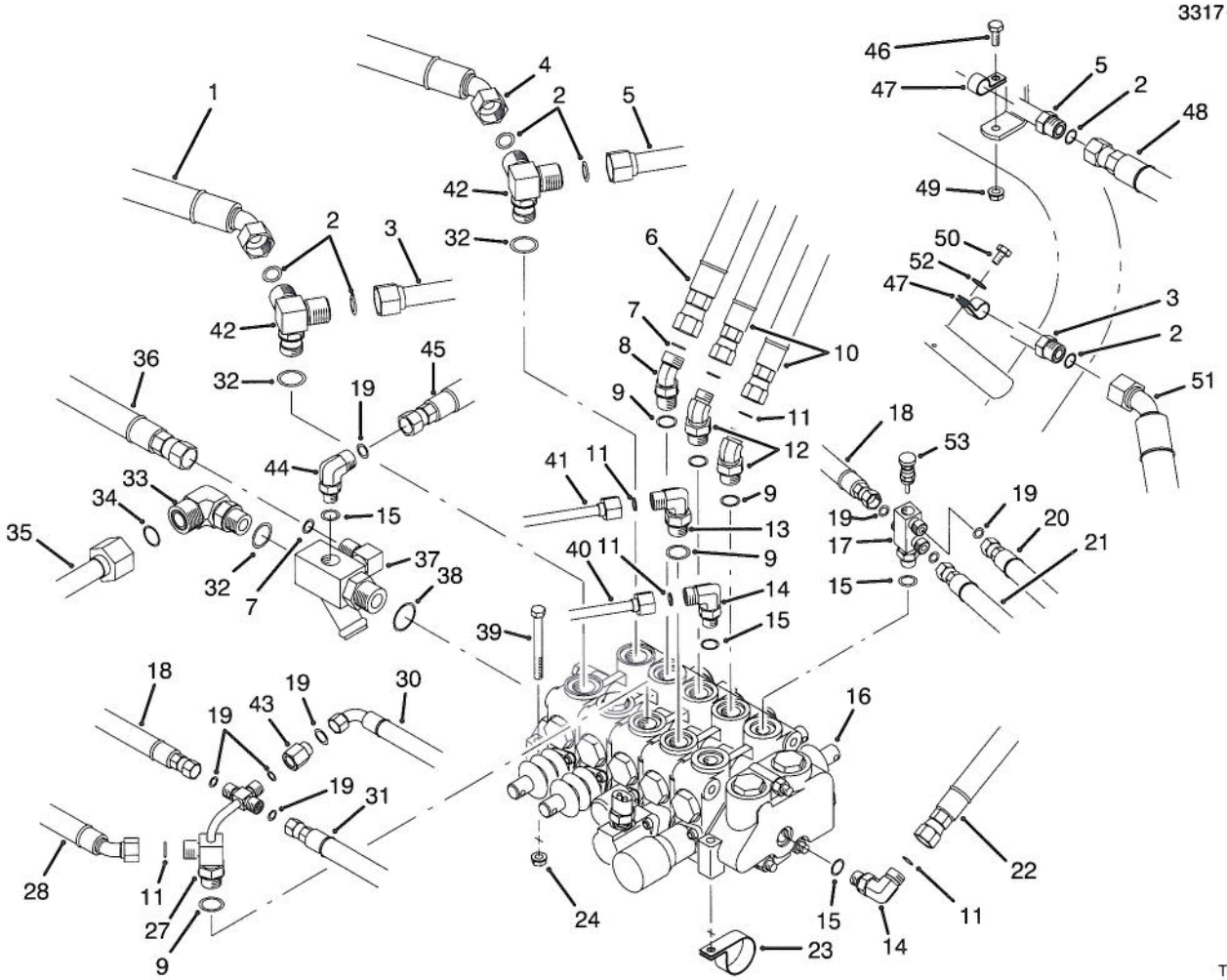



T–1287

# TRACTION CONTROLS ASSEMBLY

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 1 | 49–5430 | Rod – Control | 1 |
| 2 | 3220–2 | Nut – Jam | 1 |
| 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 |
| 24 | 83–0540 | Pedal – Traction | 1 |

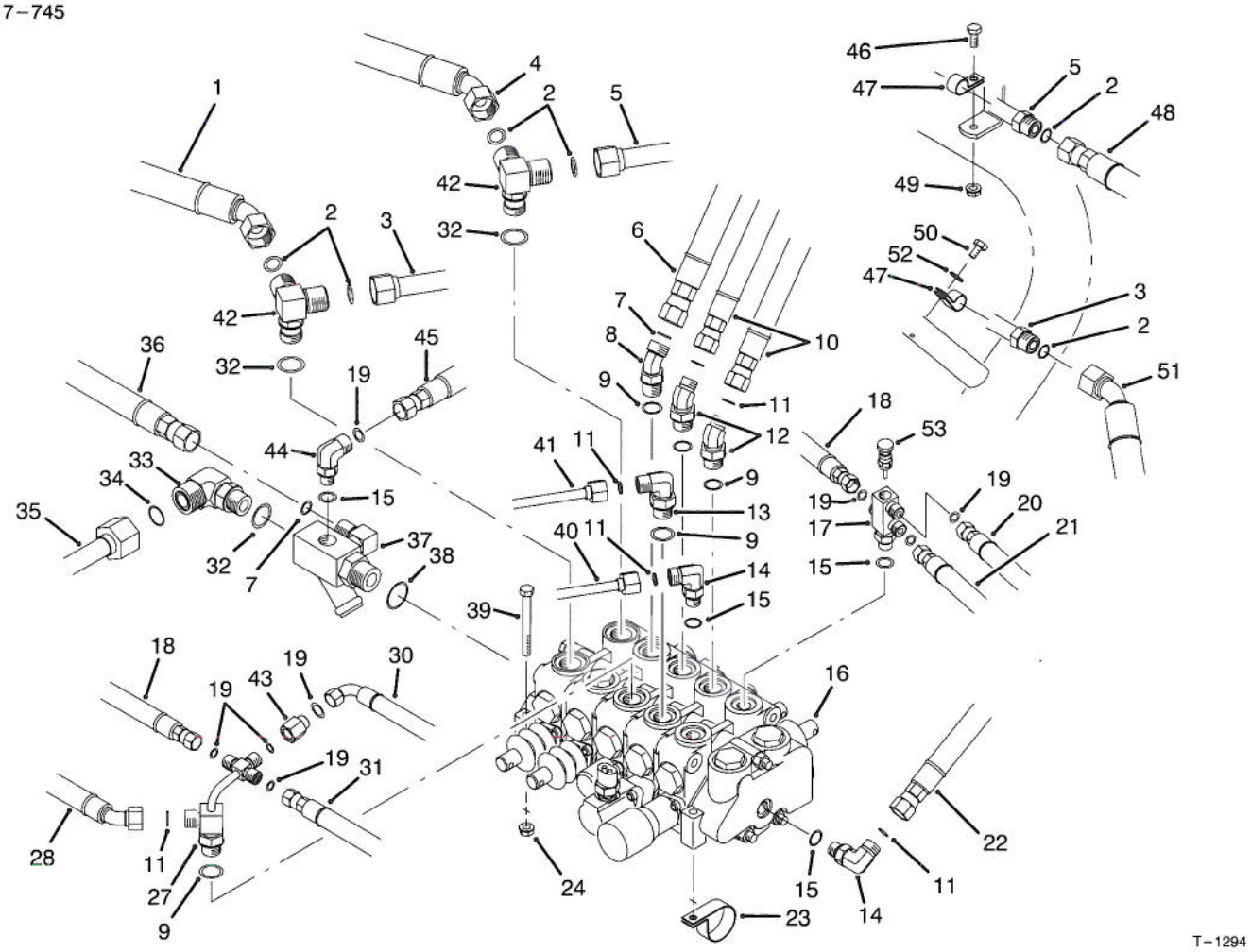
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 25 | 74–9100 | Pad – Forward Pedal | 1 |
| 26 | 256–155 | Bushing – Flange | 2 |
| 27 | 32128–20 | Nut – Flange Lock | 1 |
| 28 | 32121–45 | Pin – Roll | 1 |
| 29 | 83–0630 | Arm – Traction Pivot | 1 |
| 30 | 2411–42 | Joint – Ball 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 – Traction Return | 1 |
| 45 | 93–9937 | Return Cable Assembly | 1 |
| 46 | 283–62 | Pin – Clevis | 1 |
| 47 | 3272–10 | Pin – Cotter | 1 |
| 48 | 3217–6 | Nut – Hex. | 1 |
| 49 | 3219–2 | 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 | 92–1189 | 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 | 92–0587 | Fitting – Valve Body (Incl. Ref. #15 & 19) | 1 |
| 18 | 63–3880 | 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 |



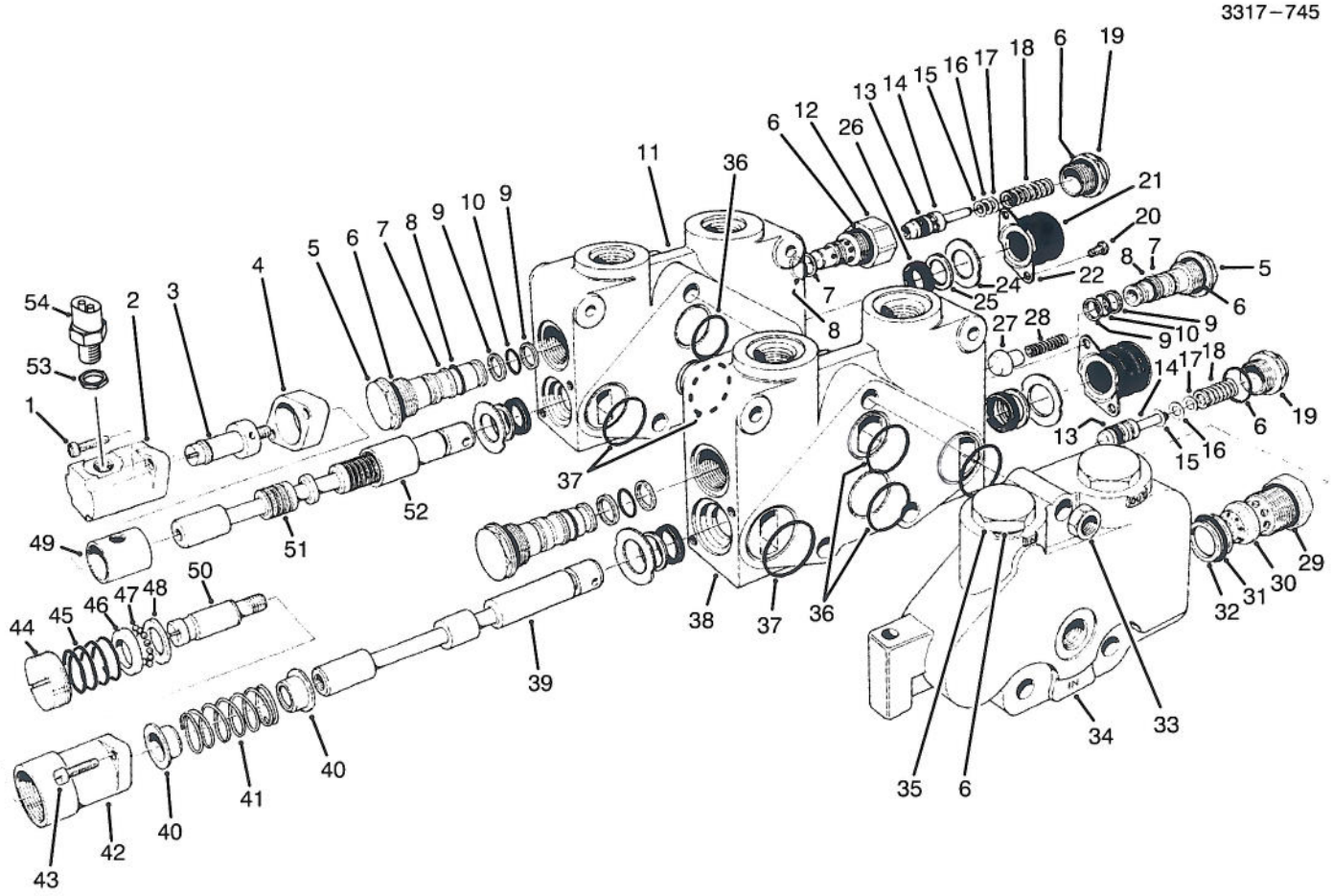

# CONTROL VALVE INSTALLATION ASSEMBLY (Continued)

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 45 | 83–1350 | Hose – Hydraulic | 1 |
| 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 |
| 51 | 70–8610 | Hose – Hydraulic | 1 |

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 52 | 3256–22 | Washer – Flat | 1 |
| 53 | 92–0588 | Valve – Needle | 1 |
| * | 3290–378 | Tie – Cable | 1 |
| * | 3290–379 | Tie – Cable | 2 |
| * | 88–9500 | Needle Valve Assembly (Incl. Ref. #15, 17, 19 & 53) | 1 |

*Not Illustrated

3317–745



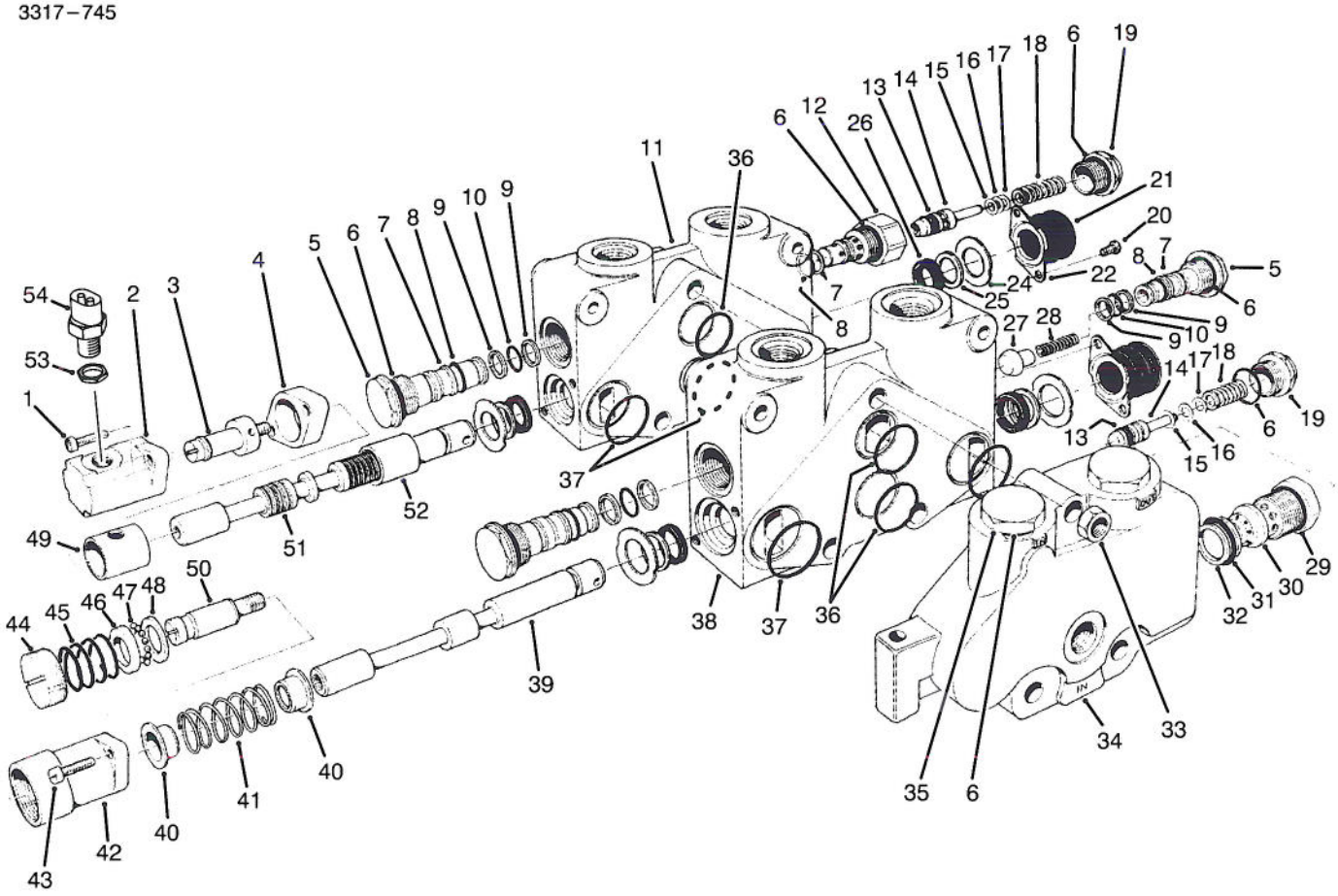
T–1318A

# 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 | 353–754 | Bonnet – R. Detent | 1 |
| 43 | 3274–15 | Screw – Fillister Hd. | 2 |
| 44 | 353–763 | Cap – Adjustment | 1 |
| 45 | 353–579 | Spring | 1 |
| 46 | 42–2680 | Race R. Detent | 1 |
| 47 | 52–5880 | Ball – Steel | 12 |
| 48 | 354–29 | Plate – Thrust | 1 |

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




T–1318A

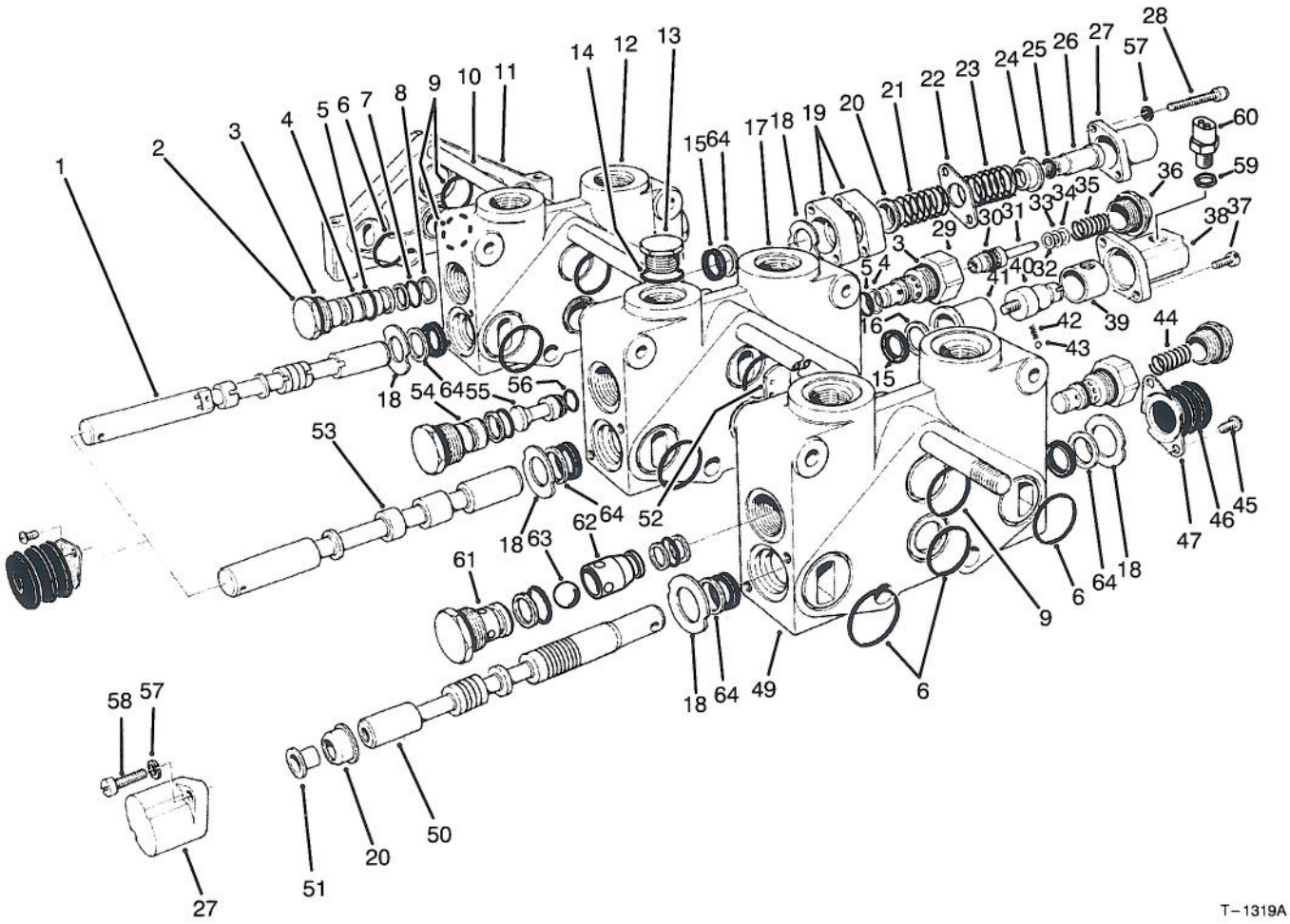
# CONTROL VALVE ASSEMBLY NO. 84–2203 (Sections 1 And 2) (Continued)

| 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



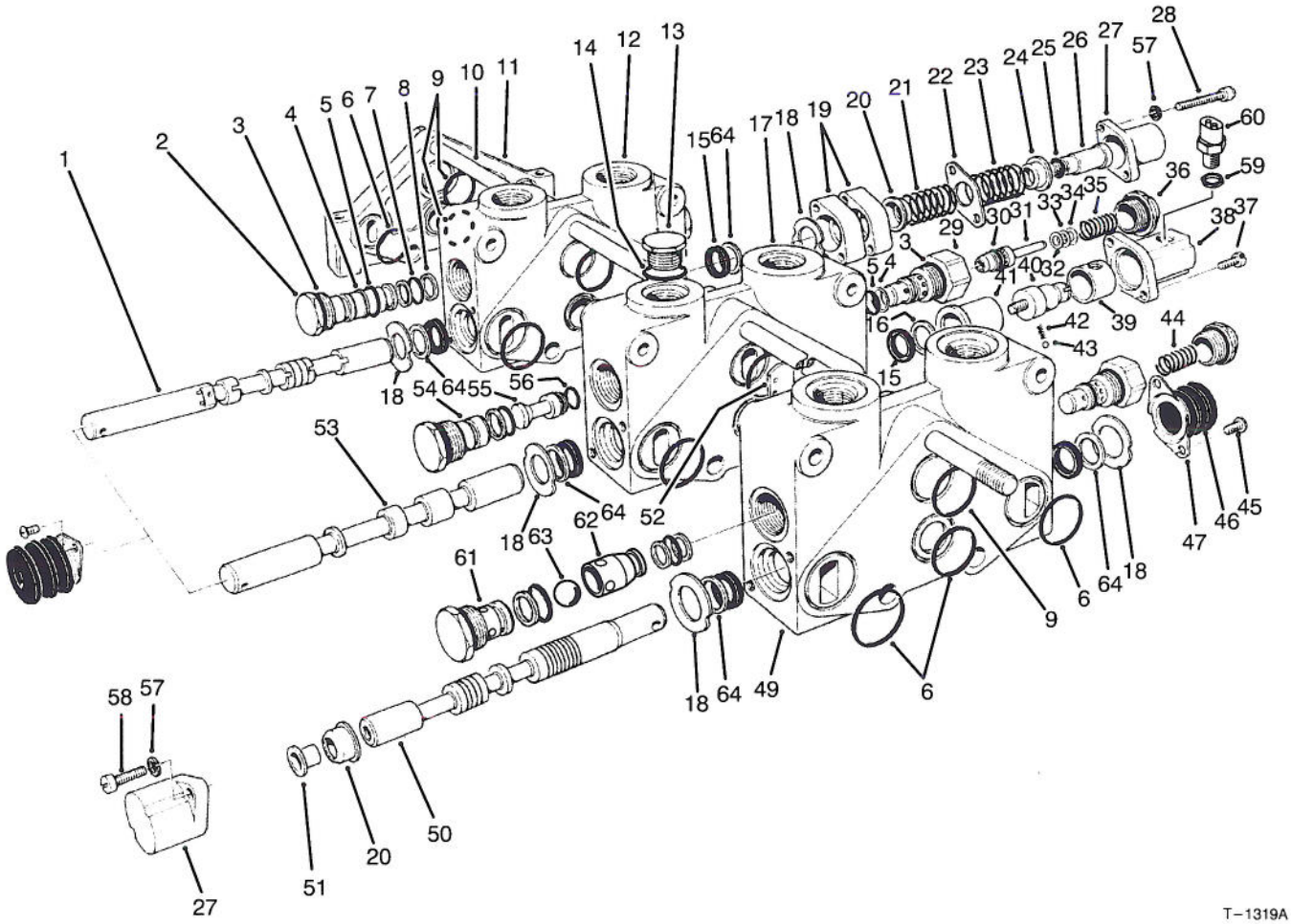

T–1319A

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

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| †1 | | Spool #5 | 1 |
| 2 | 353–481 | Plug – Load Check (Incl. Ref. #3–5 & 7–8) | 3 |
| 3 | 237–54 | O–Ring | 6 |
| 4 | 353–306 | Ring – Backup | 5 |
| 5 | 353–305 | O–Ring | 5 |
| †6 | | O–Ring | 11 |
| 7 | 353–302 | O–Ring | 3 |
| 8 | 353–303 | Ring – Backup | 6 |
| †9 | | O–Ring | 5 |
| 10 | 353–853 | Bolt – Hex Hd. | 3 |
| 11 | 353–668 | Plate – Cap, Cover RH | 1 |
| 12 | | Housing V20 #5 | 1 |
| 13 | 353–550 | Plug Assembly (Incl. Ref. #14) | 1 |
| 14 | 353–848 | O–Ring | 1 |
| 15 | 353–957 | Seal – Lip | 6 |
| 16 | 353–958 | Ring – Backup | 1 |
| †17 | | Housing V20 #4 | 1 |
| 18 | 92–2547 | Plate – Seal Retainer | 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 | 353–829 | Collar Spool | 1 |
| 27 | 354–26 | Bonnet | 2 |
| 28 | 354–28 | Screw – Hex, Socket Hd. | 2 |
| 29 | 353–851 | Body – Relief CP–RC Mod. | 2 |
| 30 | 353–392 | Seal – Relief Poppet PTFE | 2 |
| 31 | 353–531 | Poppet Assembly (Incl. Ref. #30) | 2 |
| 32 | 353–328 | Washer – Shim | A/R |
| 33 | 353–329 | Washer – Shim | A/R |
| 34 | 353–330 | Washer – Shim | A/R |
| 35 | 353–398 | Spring | 1 |
| 36 | 353–334 | Cap – Relief | 2 |
| 37 | 52–5900 | Screw – Fillister Hd. | 4 |
| 38 | 353–847 | Bonnet (SPL) | 1 |
| 39 | 353–849 | Sleeve | 1 |
| 40 | 353–846 | Spud – DI (SPL) | 1 |
| 41 | 353–845 | Sleeve – Detent | 1 |
| 42 | 353–730 | Spring | 1 |
| 43 | 353–731 | Ball | 1 |
| 44 | 353–855 | Spring | 1 |
| 45 | 3274–52 | Screw – Hex. Socket Hd. | 6 |
| 46 | 353–575 | Boot – Dust Cap | 3 |
| 47 | 93–3651 | Retainer – Boot | 3 |

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



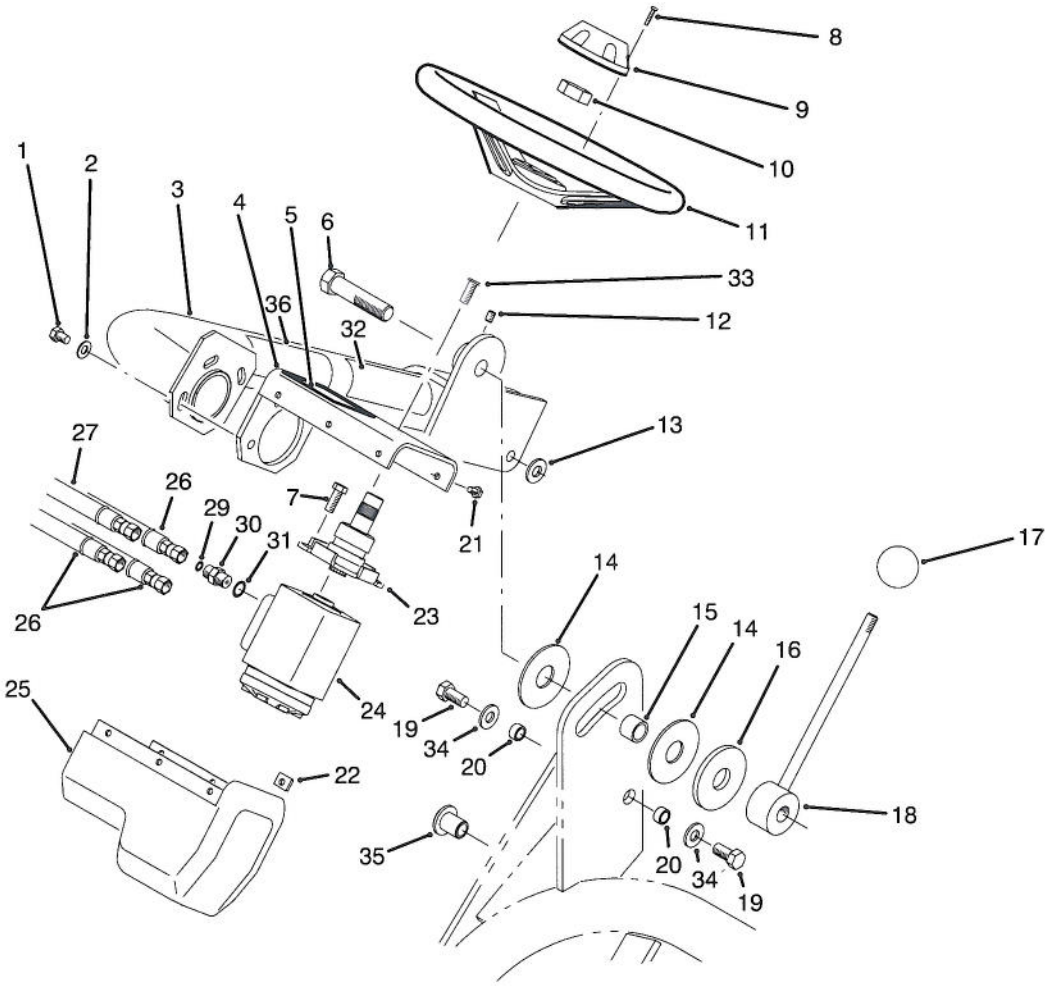

T–1319A

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

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

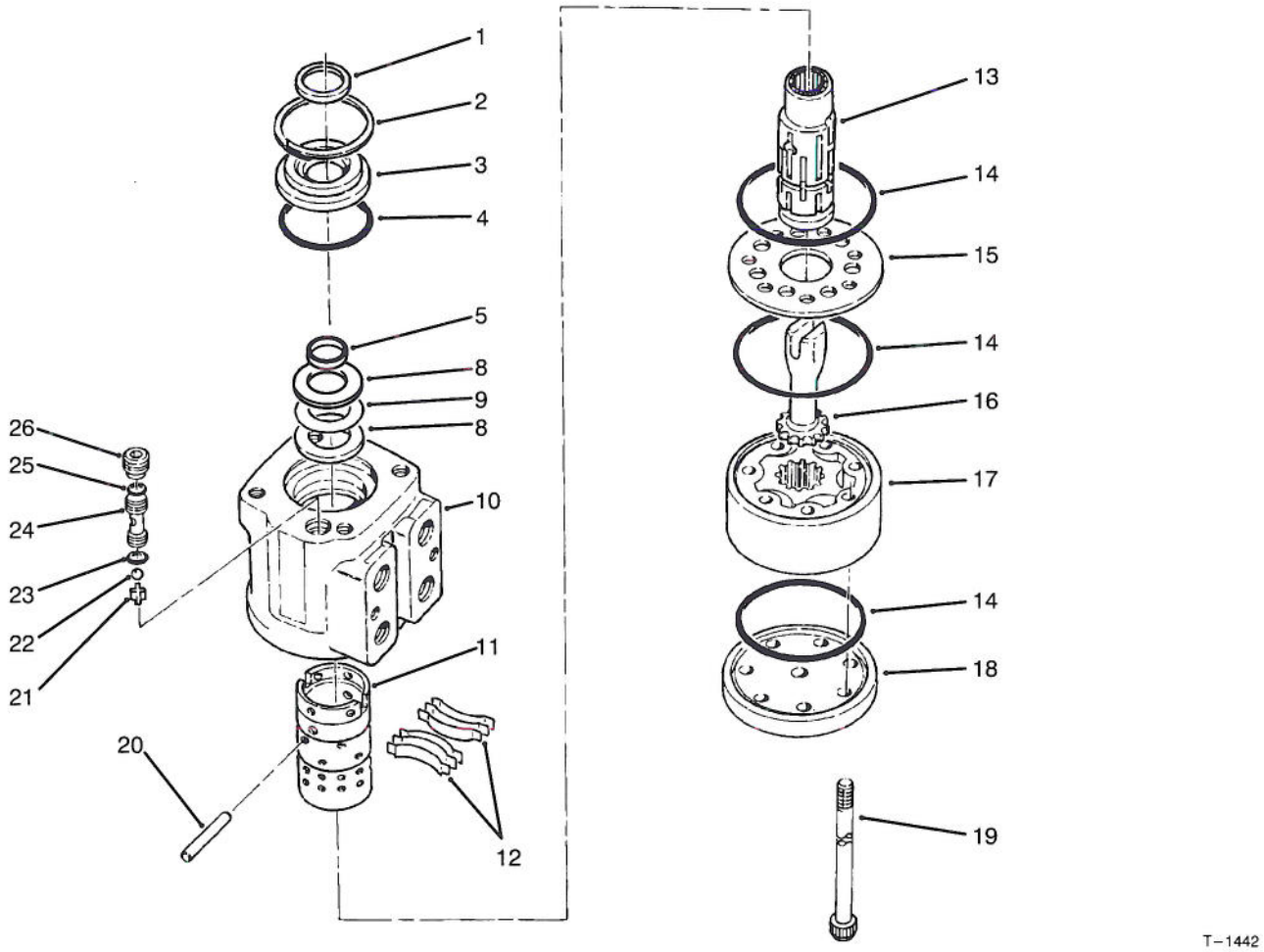



T–1291

# 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 | 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 | 92–8690 | Steering – Valve Assembly | 1 |
| 25 | 83–0810 | Cover – Steering Valve | 1 |
| 26 | 84–8730 | Hose – Hydraulic | 2 |
| 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 |



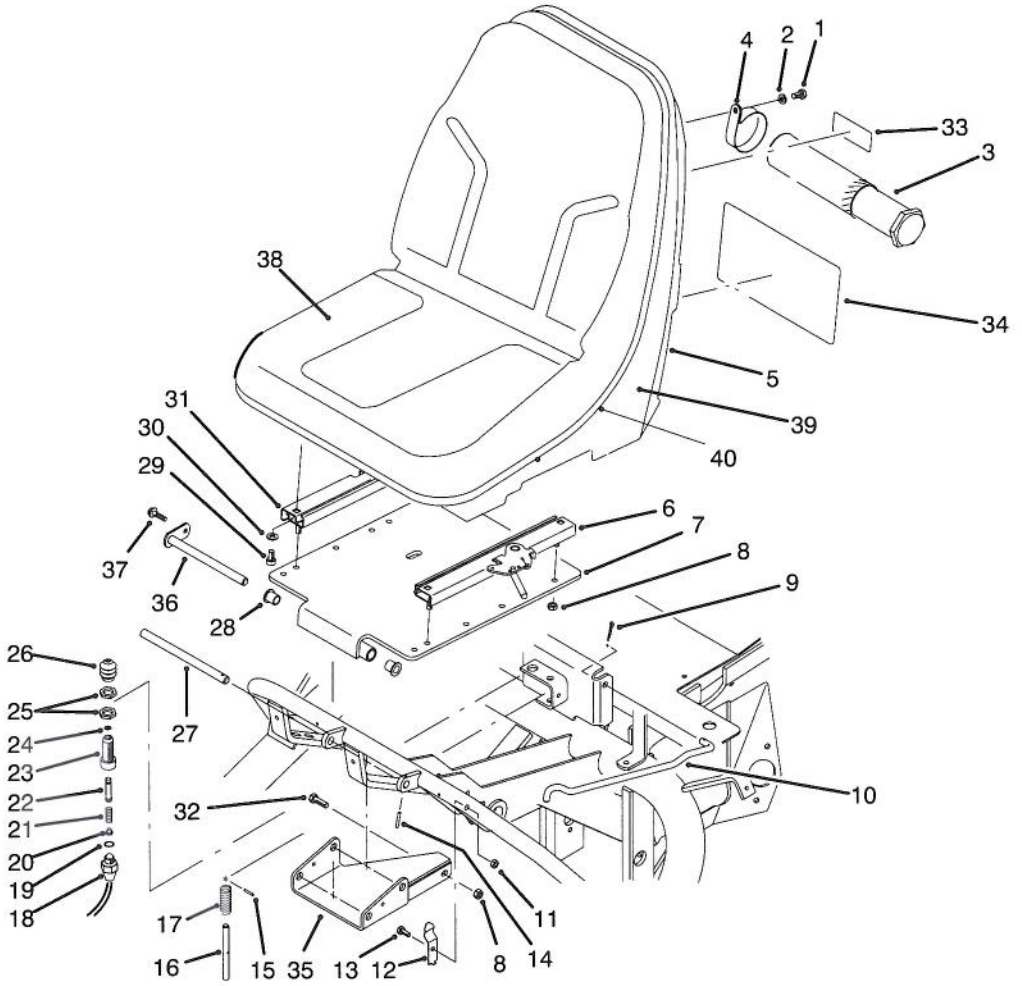

T–1442

# POWER STEERING VALVE NO. 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 |
| 18 | 92–8694 | Cap – End | 1 |

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 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 |
| * | 52–9250 | Needle Bearing Kit (Incl. Ref. #8 & 9) | 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



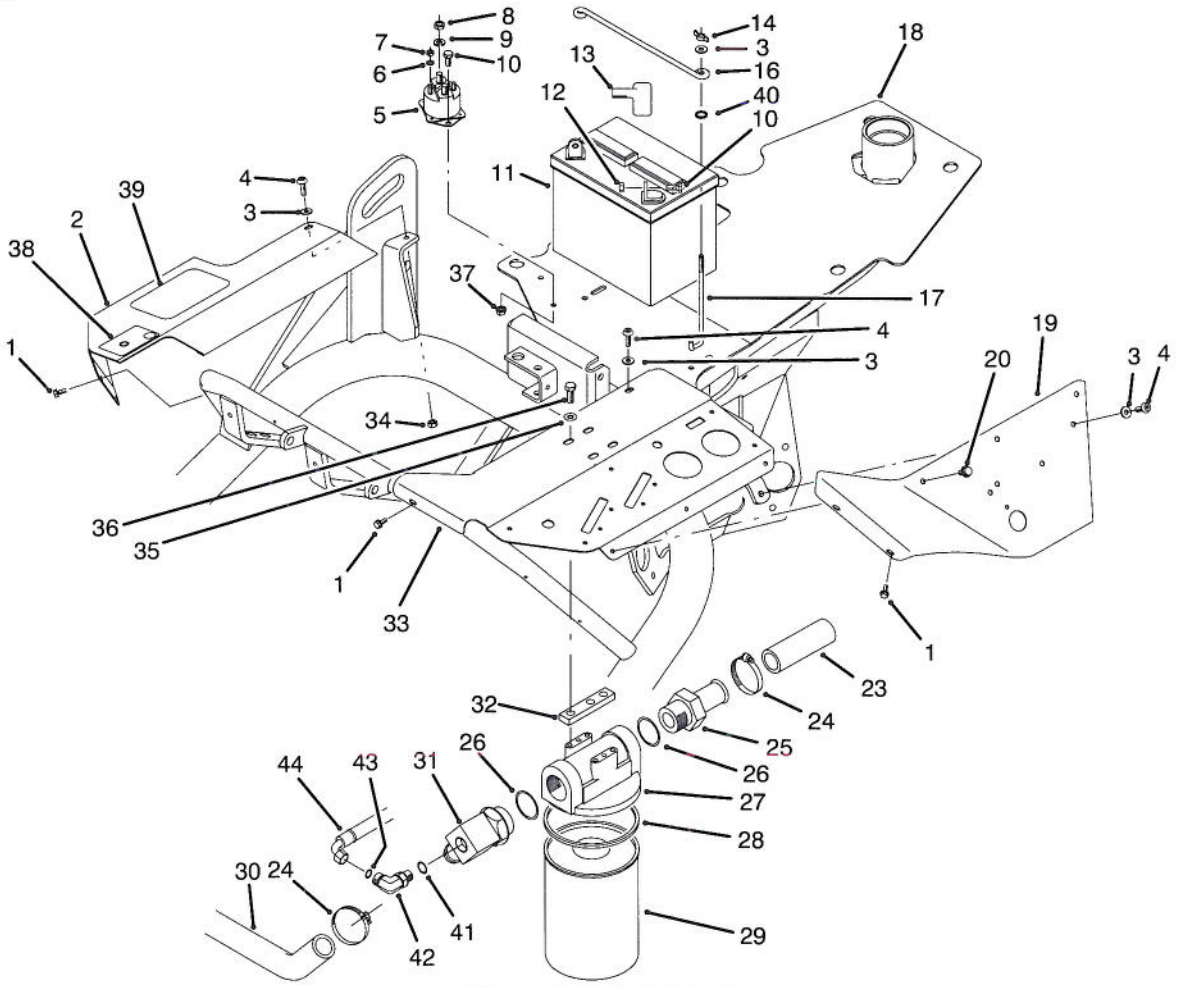

T–1445

# 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 (Incl. Ref. #38–40) | 1 |
| 6 | 51–0790 | Adjuster – Seat | 1 |
| 7 | 84–8770 | 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 | 3296–42 | 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 |
| 20 | 43–8610 | Seat – Ball | 1 |

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 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 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 | 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 |
| 38 | 92–6533 | Kit – Cushion | 1 |
| 39 | 92–6534 | Shell | 1 |
| 40 | 351–78 | Edging | 1 |
| * | 43–9071 | Seat Switch Assembly (Incl. Ref. #18–26) | 1 |

*Not Illustrated

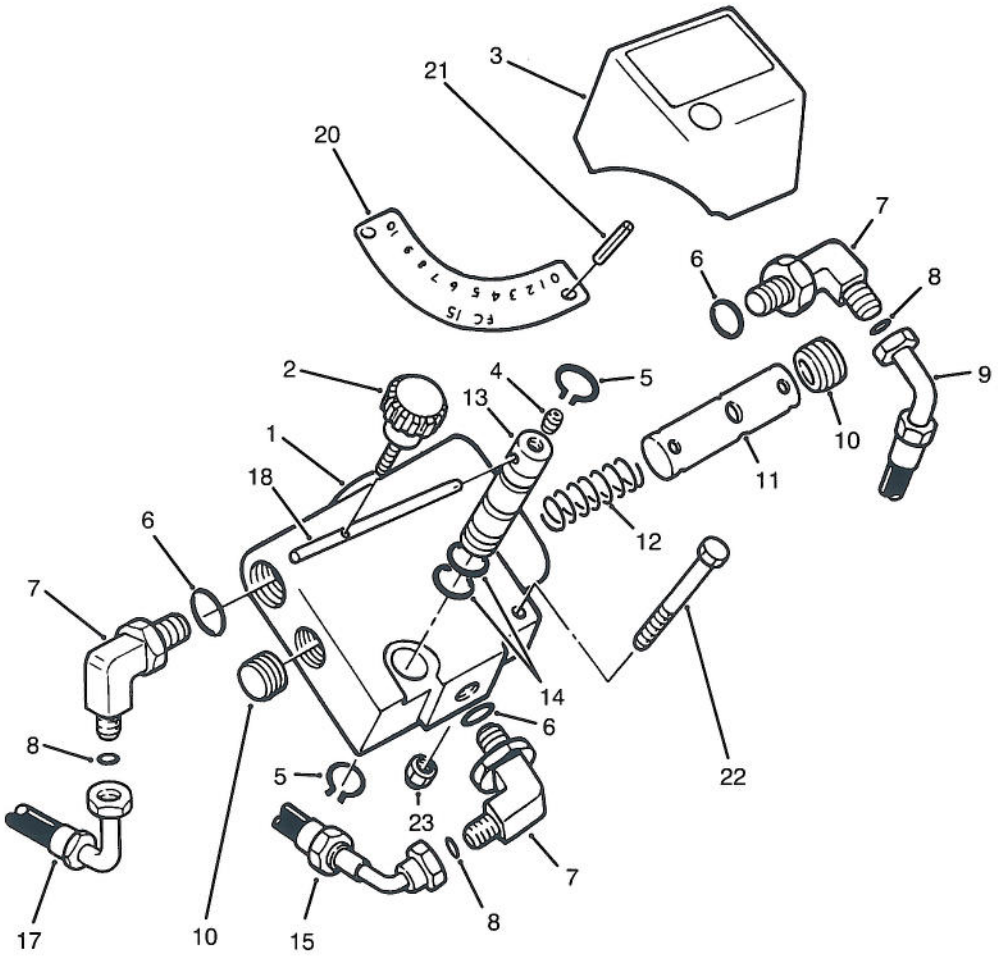



T–1671

# FRAME ASSEMBLY

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 1 | 32104–76 | Screw – Self Tapping | 5 |
| 2 | 94–2694 | 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 | 92–9164 | 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 | 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 |



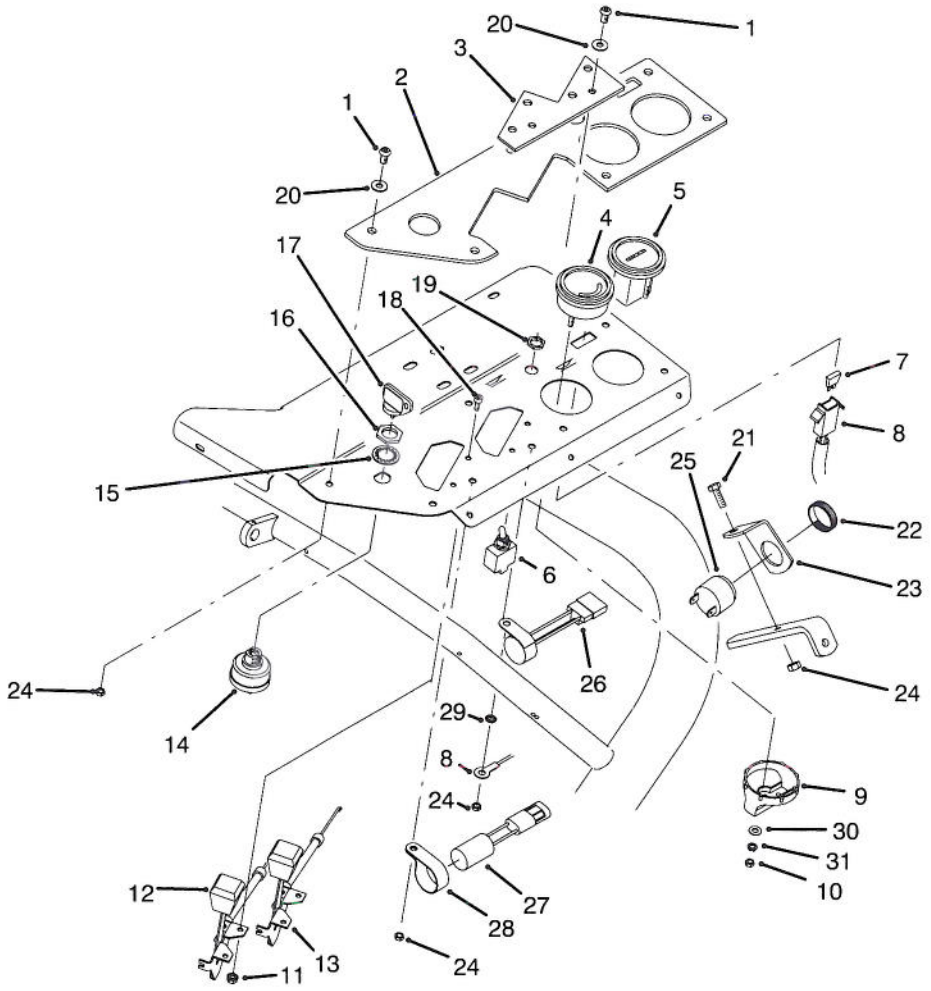

T–1441

# 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

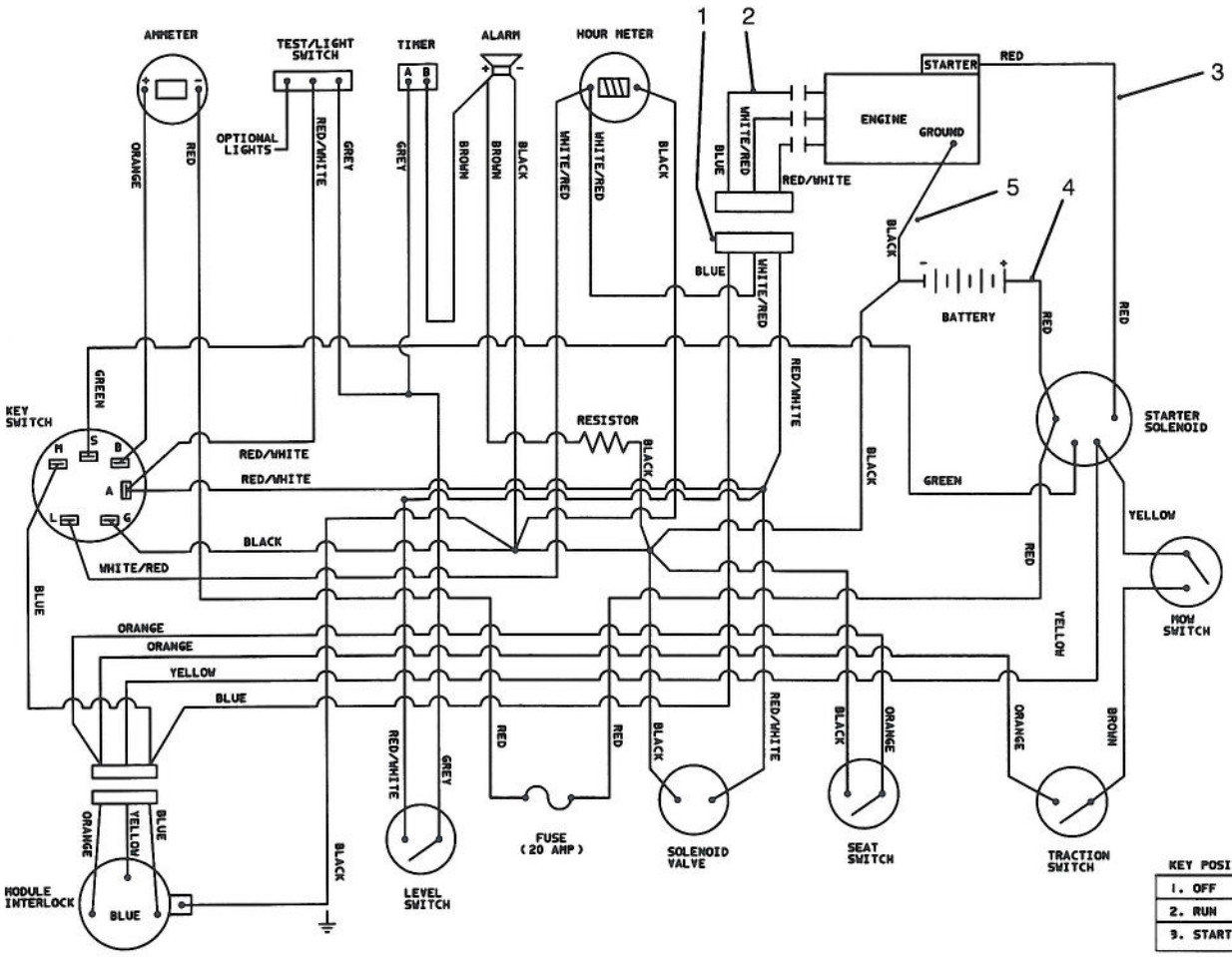



T–1296

# 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 | 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 – Relay | 1 |
| 28 | 2412–39 | Clamp – R | 1 |
| 29 | 3255–7 | Washer – Lock | 1 |
| 30 | 3256–21 | Washer – Flat | 2 |
| 31 | 3254–1 | Washer – Lock | 2 |



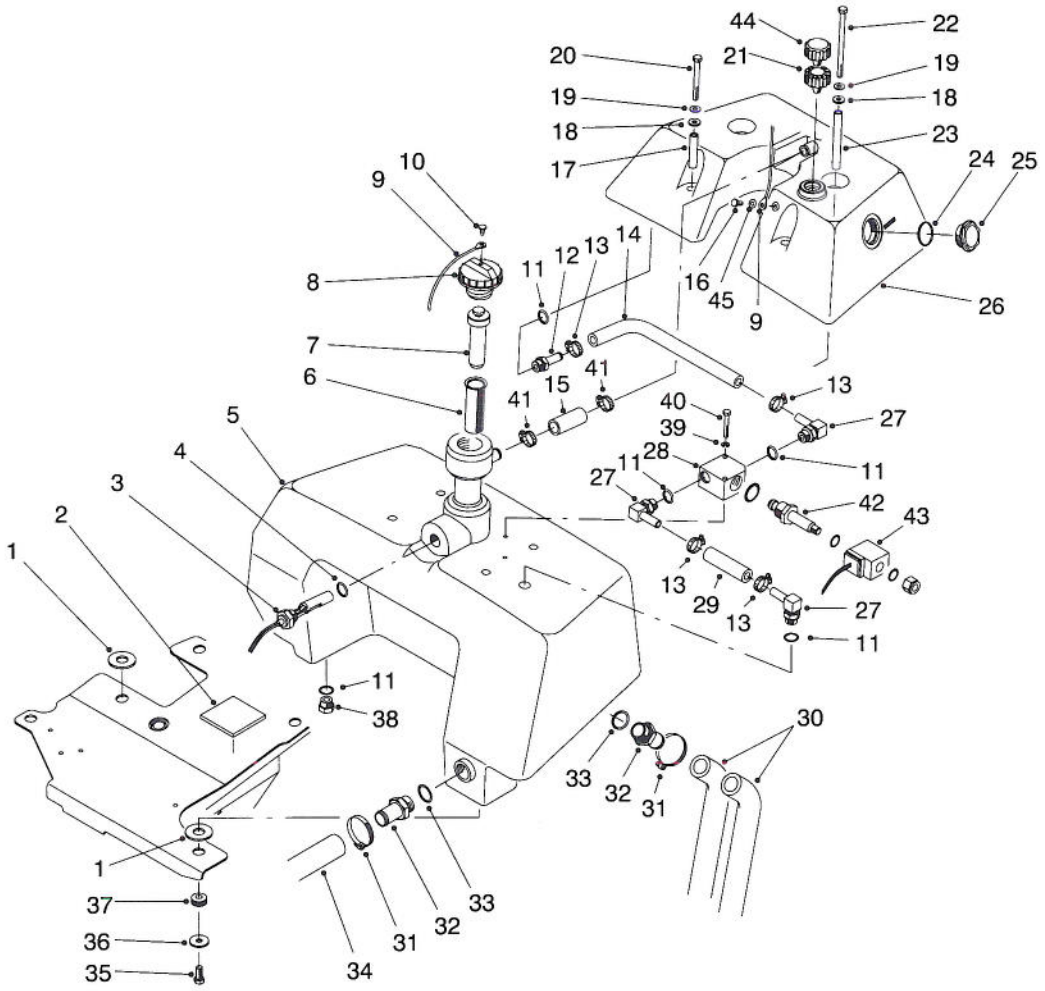

T–1301

| KEY POSITION | CIRCUIT MAKE |
|---|---|
| 1. OFF | G+M+A |
| 2. RUN | B+L+A |
| 3. START | B+L+S |

# 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 |

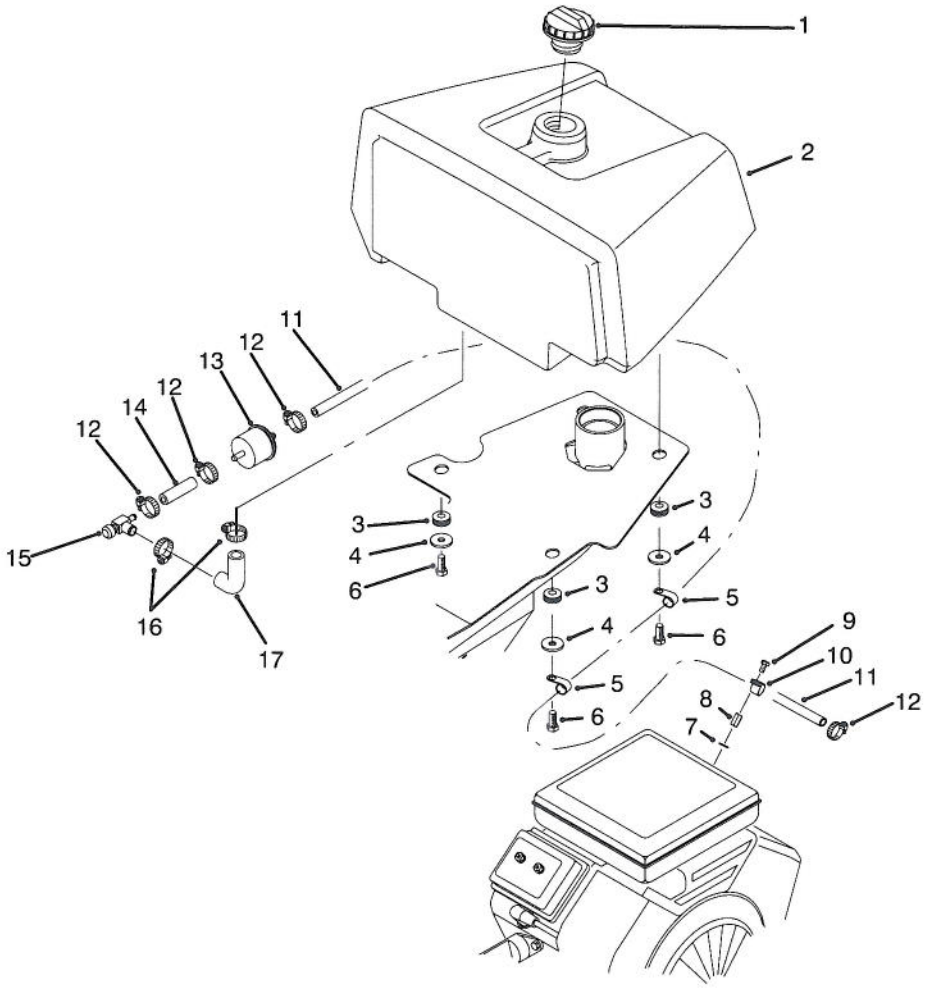
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 4 | 83–2420 | Wire – Solenoid–Battery | 1 |
| 5 | 83–1150 | Wire – Engine Ground | 1 |




# 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 | 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 | 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 | 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 | Gauge – 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 |
| 44 | 68–6150 | Breather | 1 |
| 45 | 3256–22 | Washer – Flat | 1 |



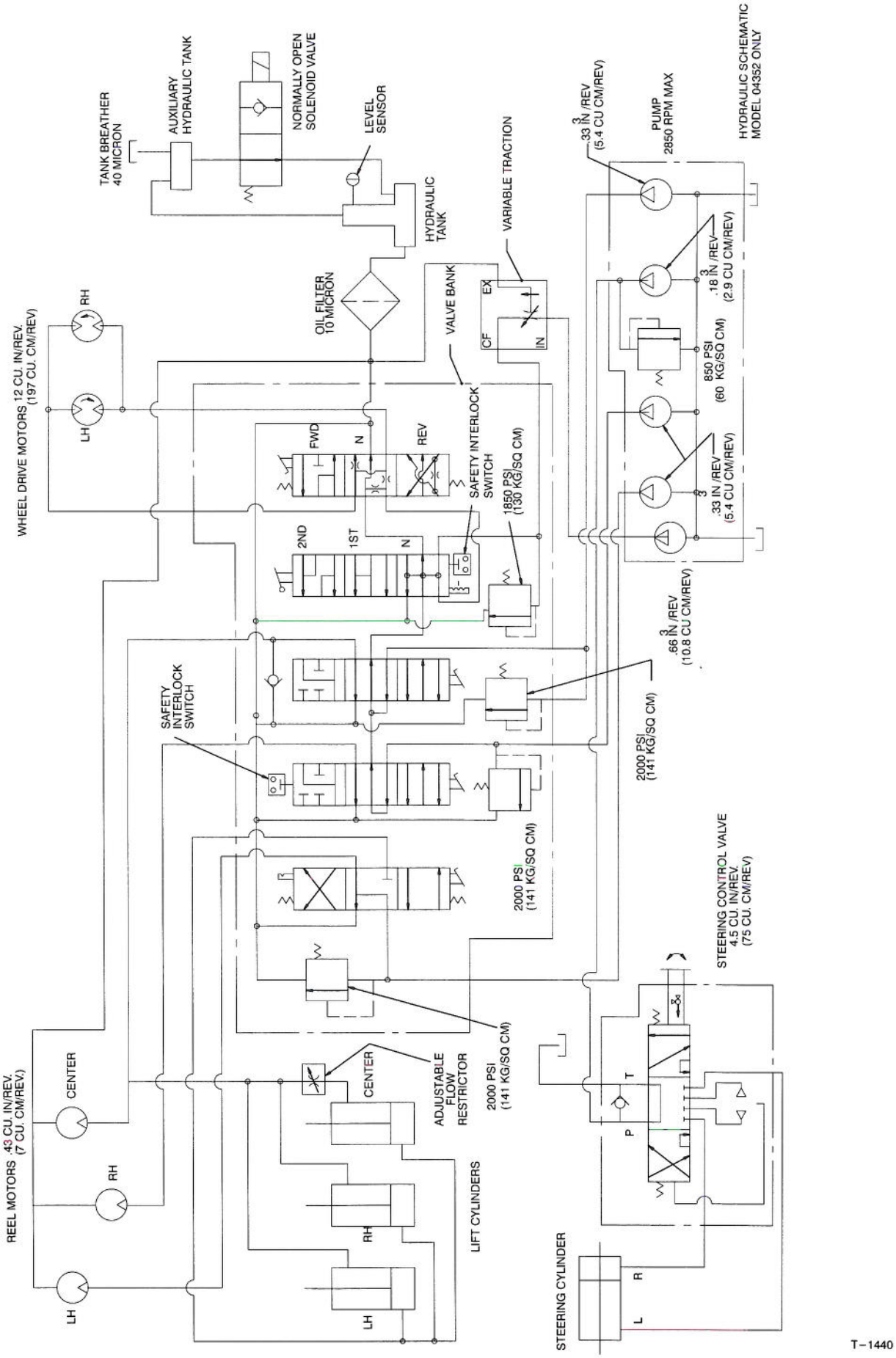

T–1317

# FUEL TANK ASSEMBLY

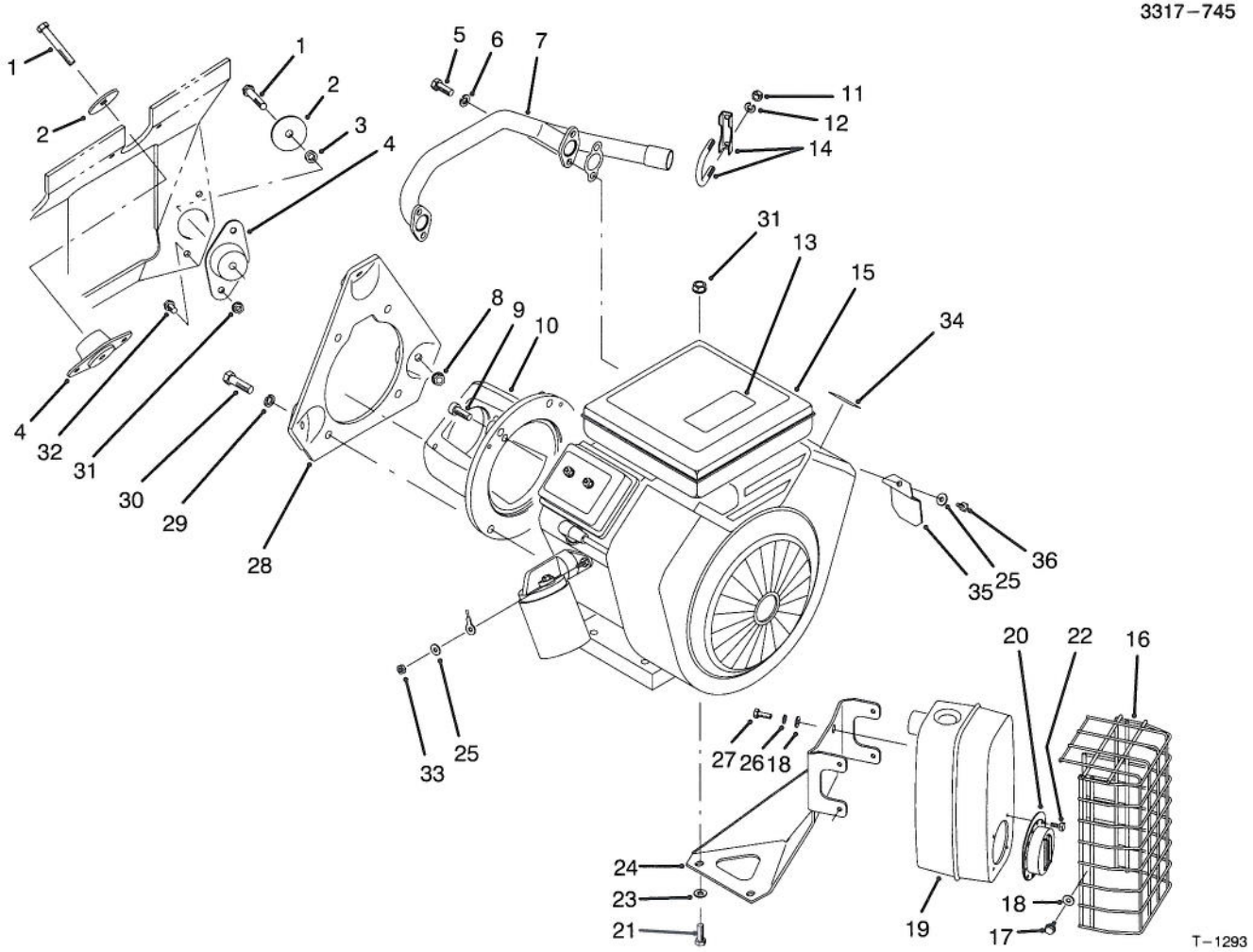
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 1 | 93–3101 | Cap – Fuel | 1 |
| 2 | 92–7189 | Tank – Fuel | 1 |
| 3 | 240–11 | Grommet | 4 |
| 4 | 63–8410 | Washer – Flat | 4 |
| 5 | 2412–41 | Clamp – R | 3 |
| 6 | 323–6 | Screw – Cap Hex. Hd. | 3 |
| 7 | 3256–63 | Washer – Flat | 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–1440



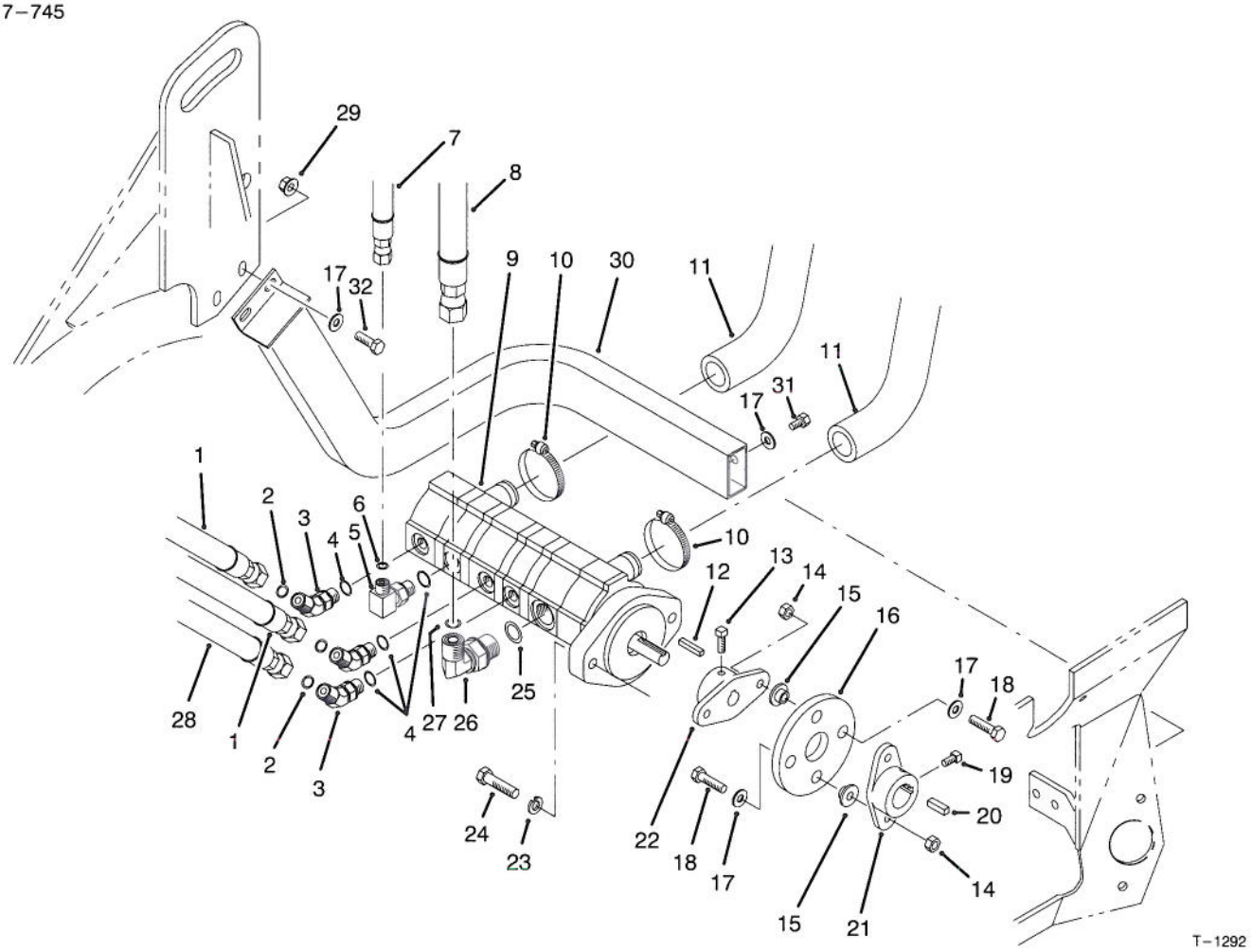

# ENGINE INSTALLATION ASSEMBLY

| 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 |
| 19 | 83–1230 | Muffler | 1 |
| * | 83–2240 | Arrestor – Spark (Optional) | 1 |

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 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

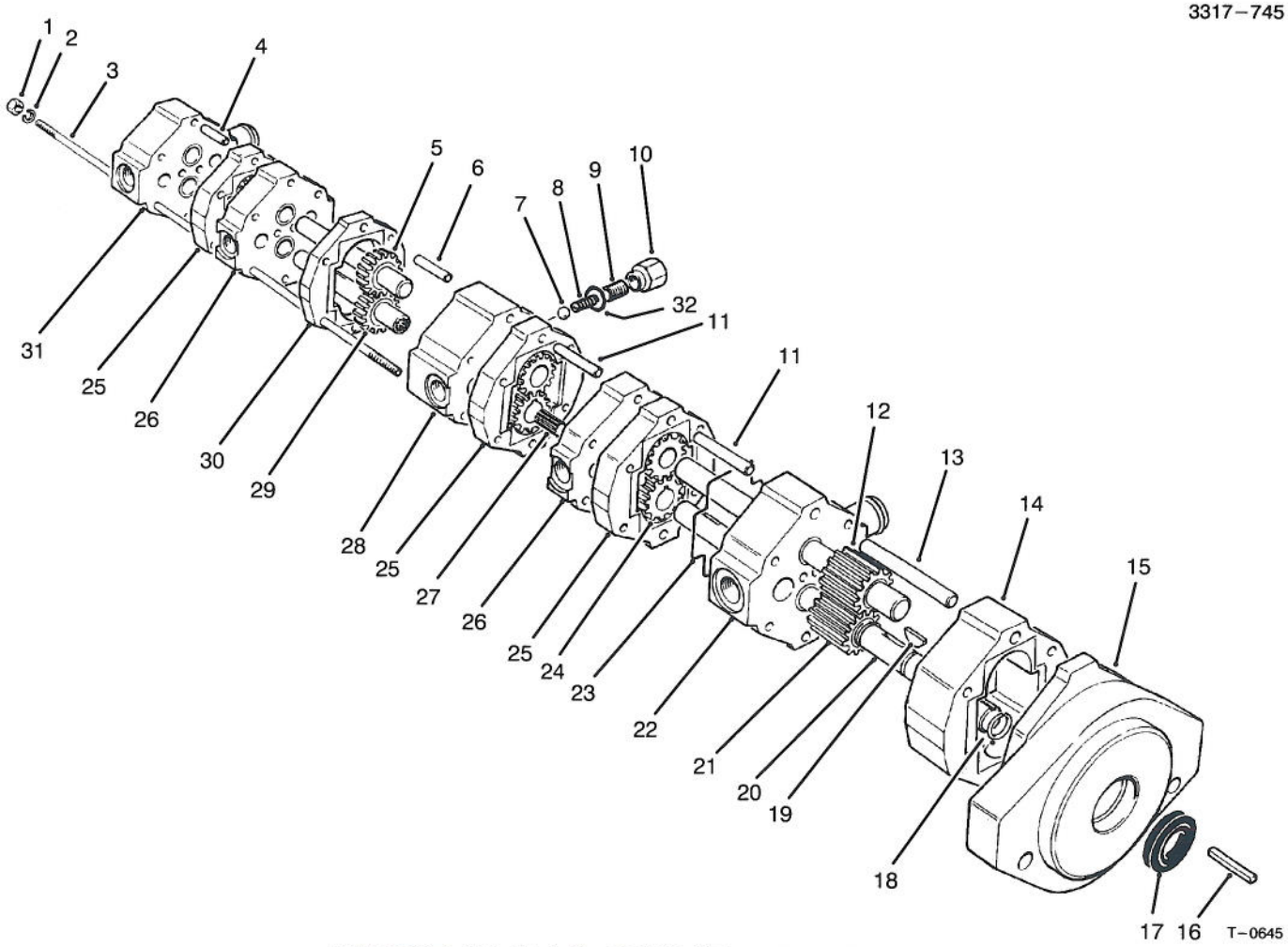
3317–745




# 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 | 92–9764 | 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 |

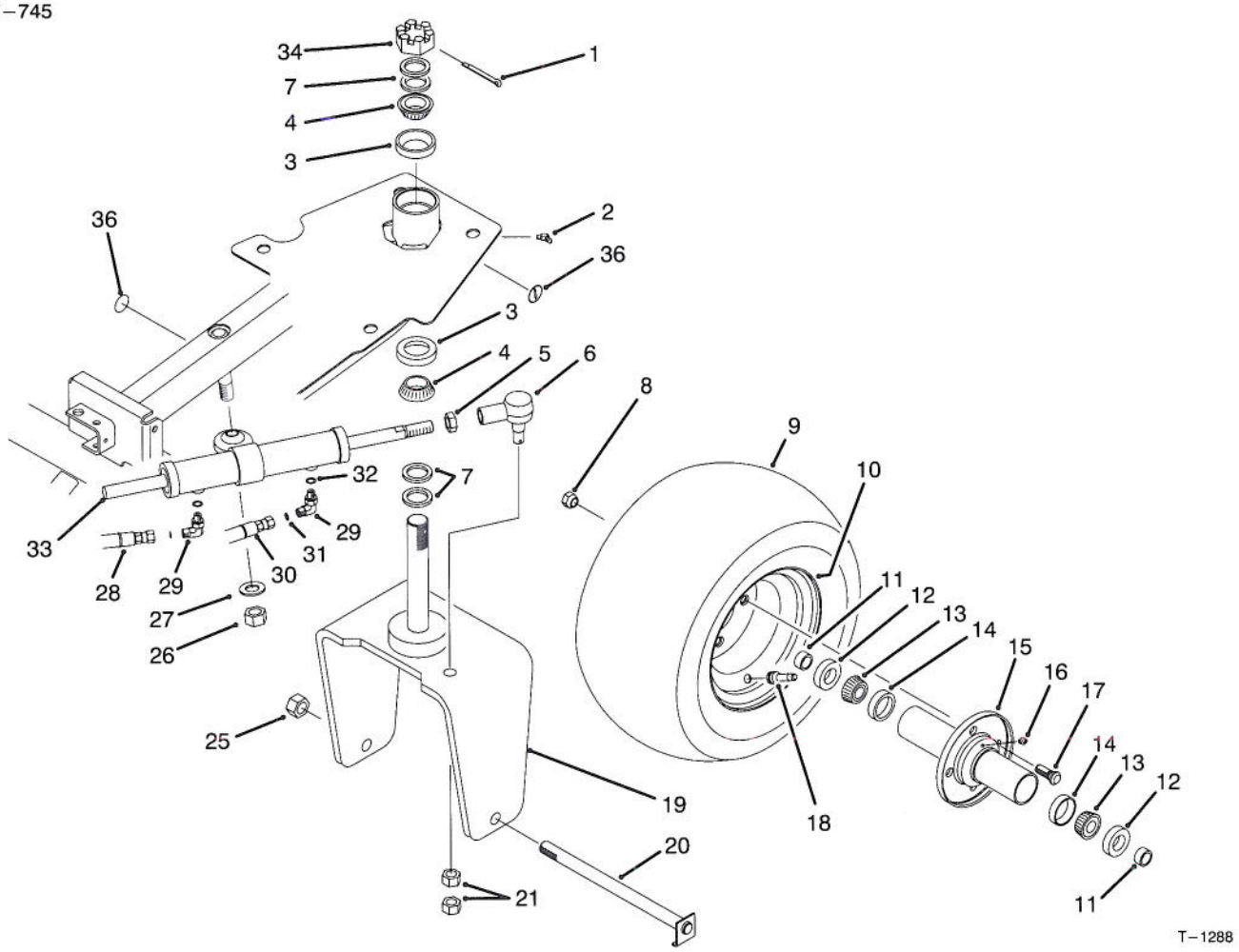
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 16 | 44–2230 | Coupling – Rubber | 1 |
| 17 | 3256–23 | Washer – Flat | 8 |
| 18 | 322–6 | Screw – Cap Hex. Hd. | 4 |
| 19 | 3241–2 | Screw – Set Square Hd. | 2 |
| 20 | 10–7070 | Key – Square | 1 |
| 21 | 27–1960 | Hub – Engine | 1 |
| 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 92–9764

| 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 | 92–9774 | Idler Shaft – Gear Assy. | 1 |
| 13 | 354–14 | Pin – Dowel | 2 |
| 14 | 353–919 | Plate – Gear 66B | 1 |
| 15 | 354–2 | Body Assembly | 1 |
| 16 | 5–0946 | Key – Square | 1 |
| 17 | 354–15 | Seal – Shaft | 1 |

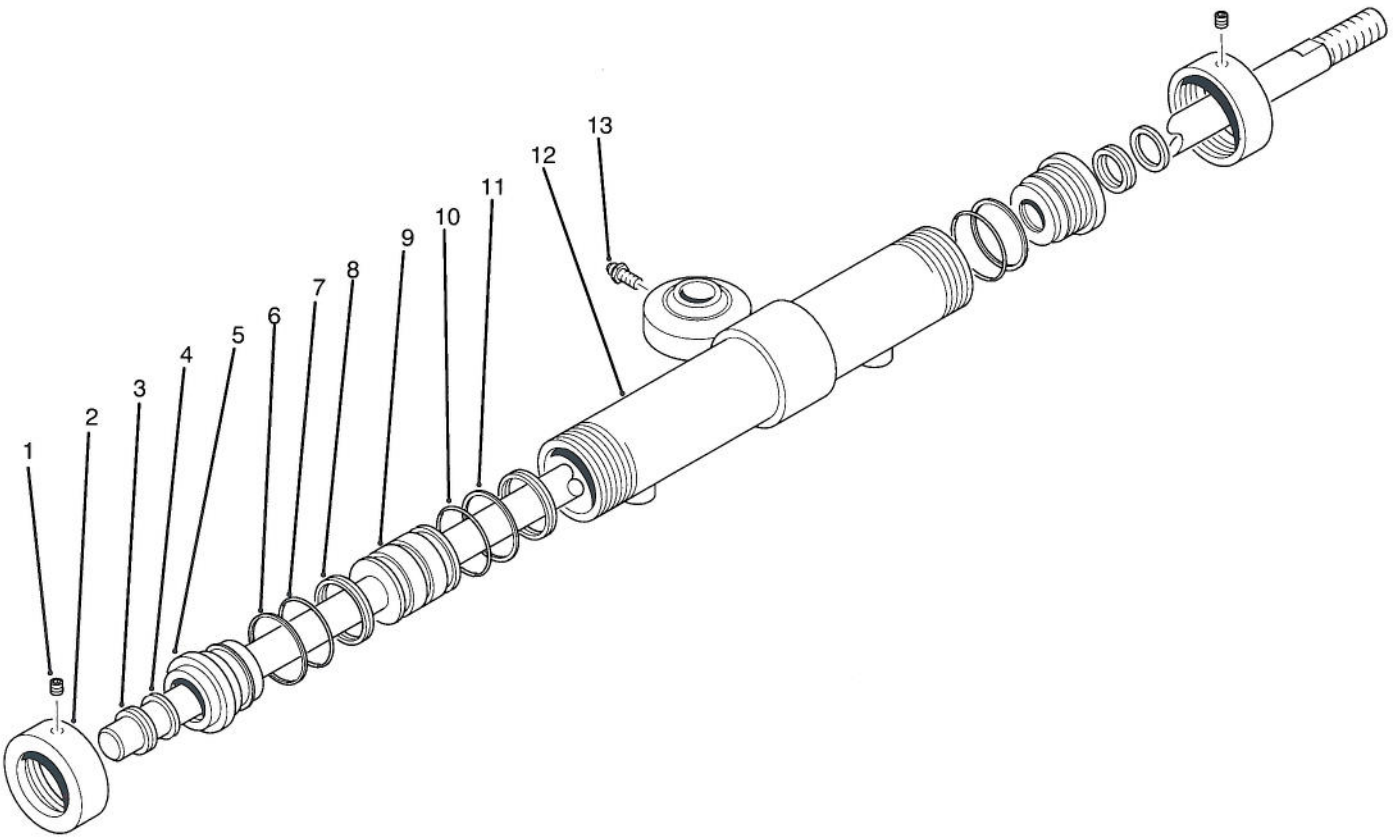
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 18 | 353–886 | Ring – Retaining | 2 |
| 19 | 353–884 | Key – Woodruff | 4 |
| 20 | 92–9772 | Shaft – Drive | 1 |
| 21 | 92–9773 | Gear – 66B | 1 |
| 22 | 354–3 | Bearing Plate Assembly | 1 |
| 23 | 353–922 | Seal – Ring | 10 |
| 24 | 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 | 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 |
| 36 | 58–6520 | Decal – Grease | 2 |



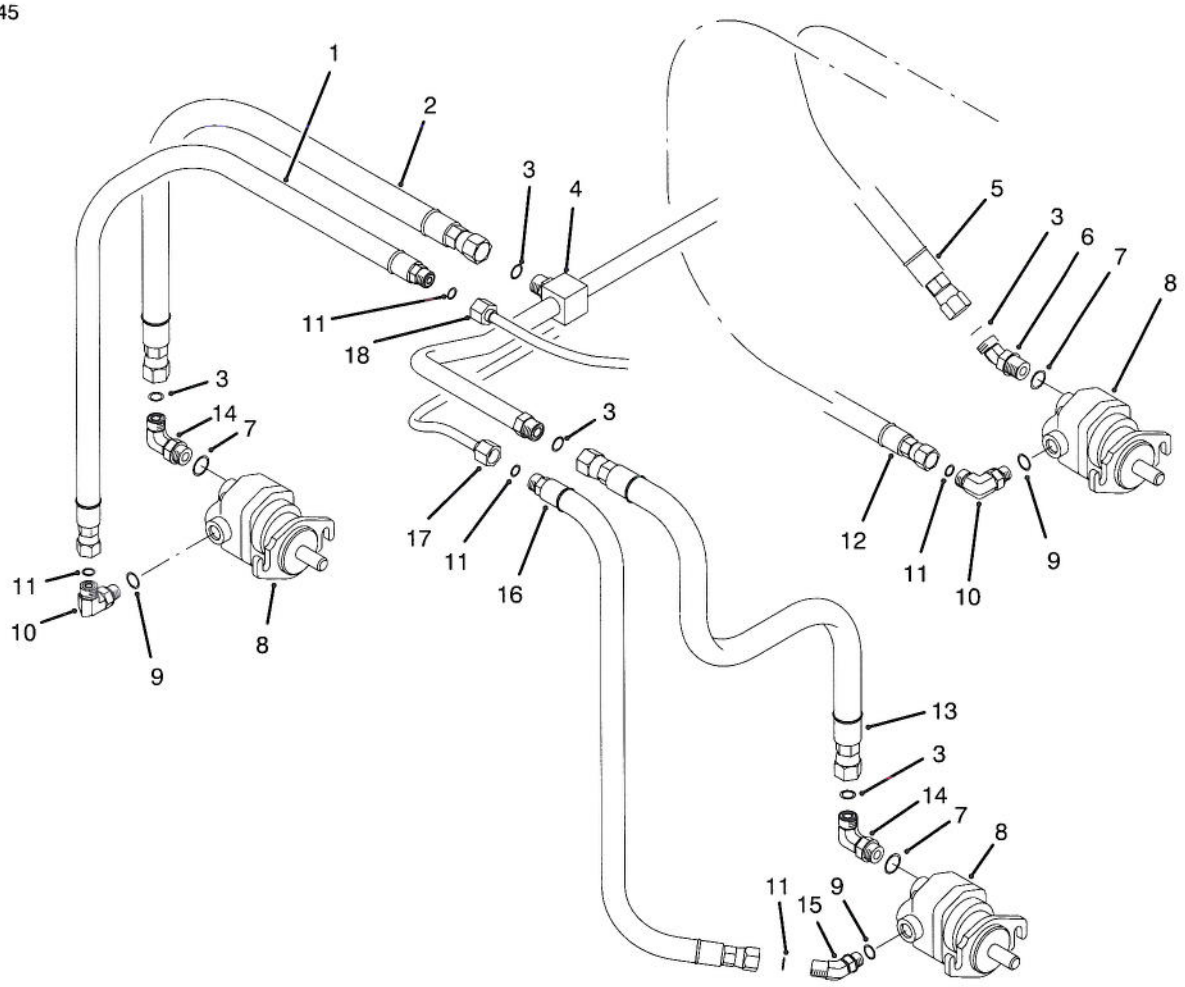

T–1313

# 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

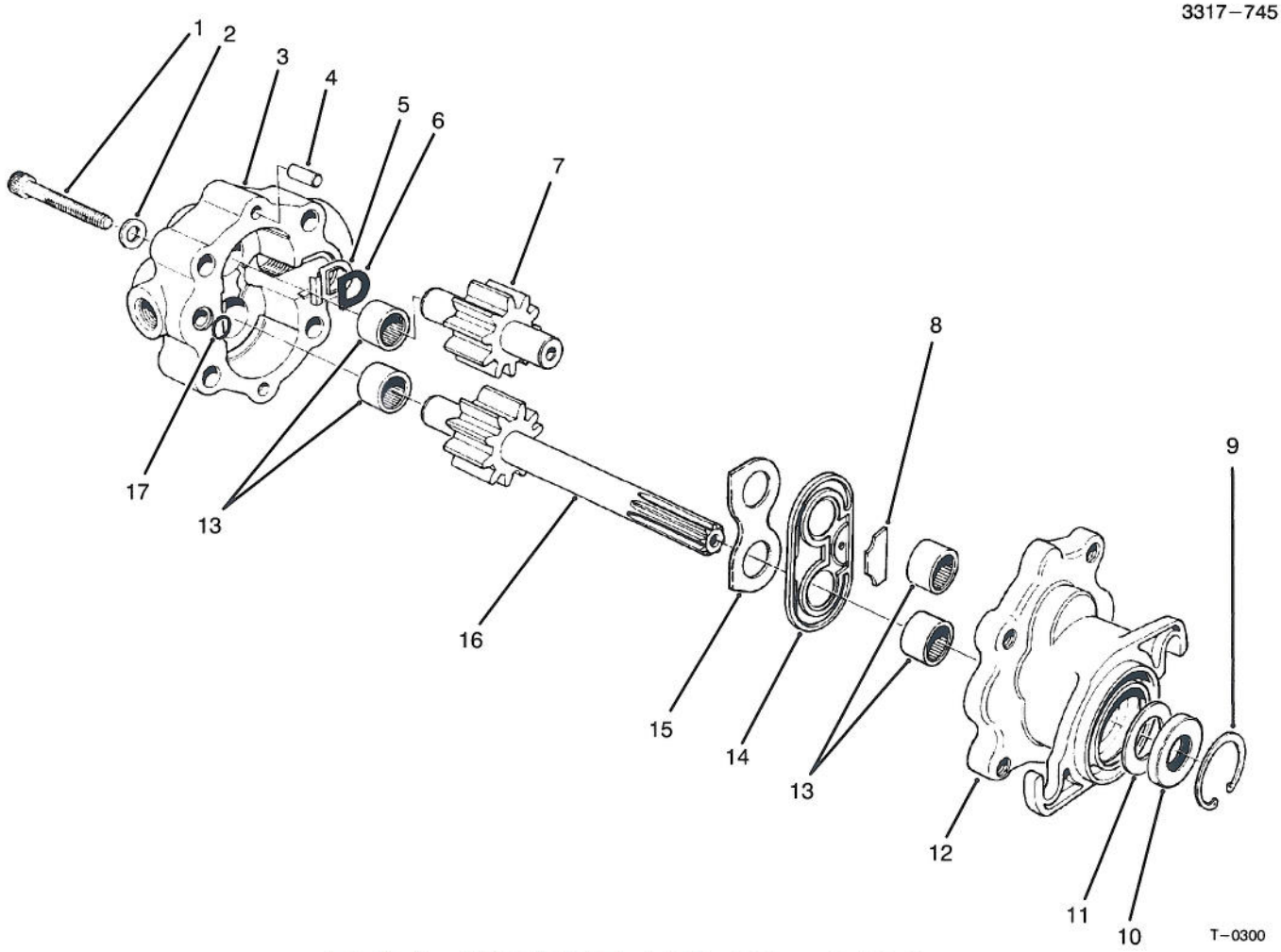



T–1297

# 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 |




# REEL MOTOR NO. 70–9800

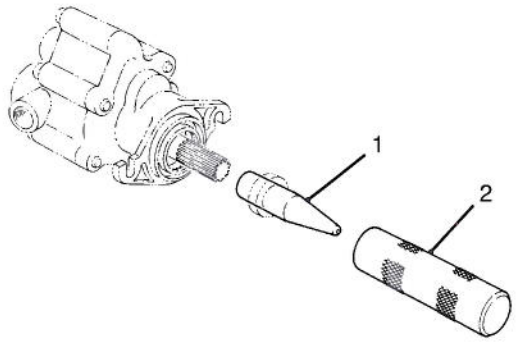
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 1 | 353–601 | Screw – Hex Socket Hd. | 4 |
| 2 | 353–600 | Washer | 4 |
| 3 | 353–588 | Cover – Motor | 1 |
| 4 | 353–599 | Pin – Dowel | 2 |
| 5 | 353–597 | Bridging – Insert | 1 |
| 6 | 353–598 | Gasket – Insert | 1 |
| 7 | 353–593 | 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

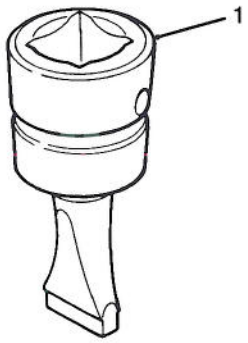
## REEL MOTOR SEAL INSTALLATION TOOLS




T–0727

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

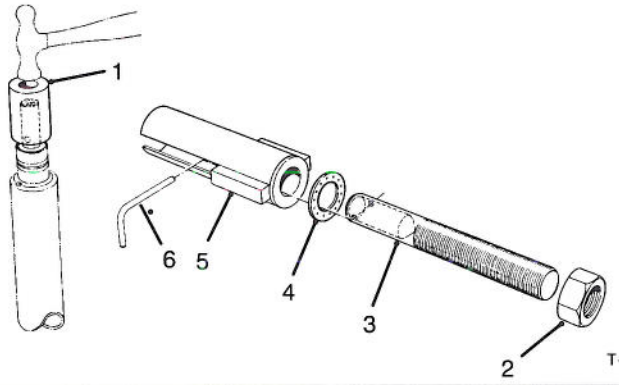
## BED KNIFE SCREW TOOL NO. TOR510880




T–0729

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

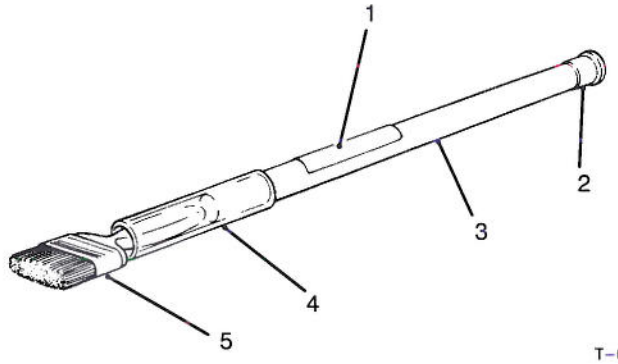
## BEARING REPLACEMENT TOOL KIT NO. TOR238900




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



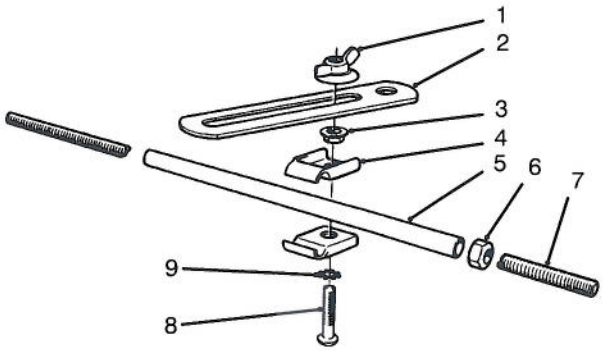

T–0731

| 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)

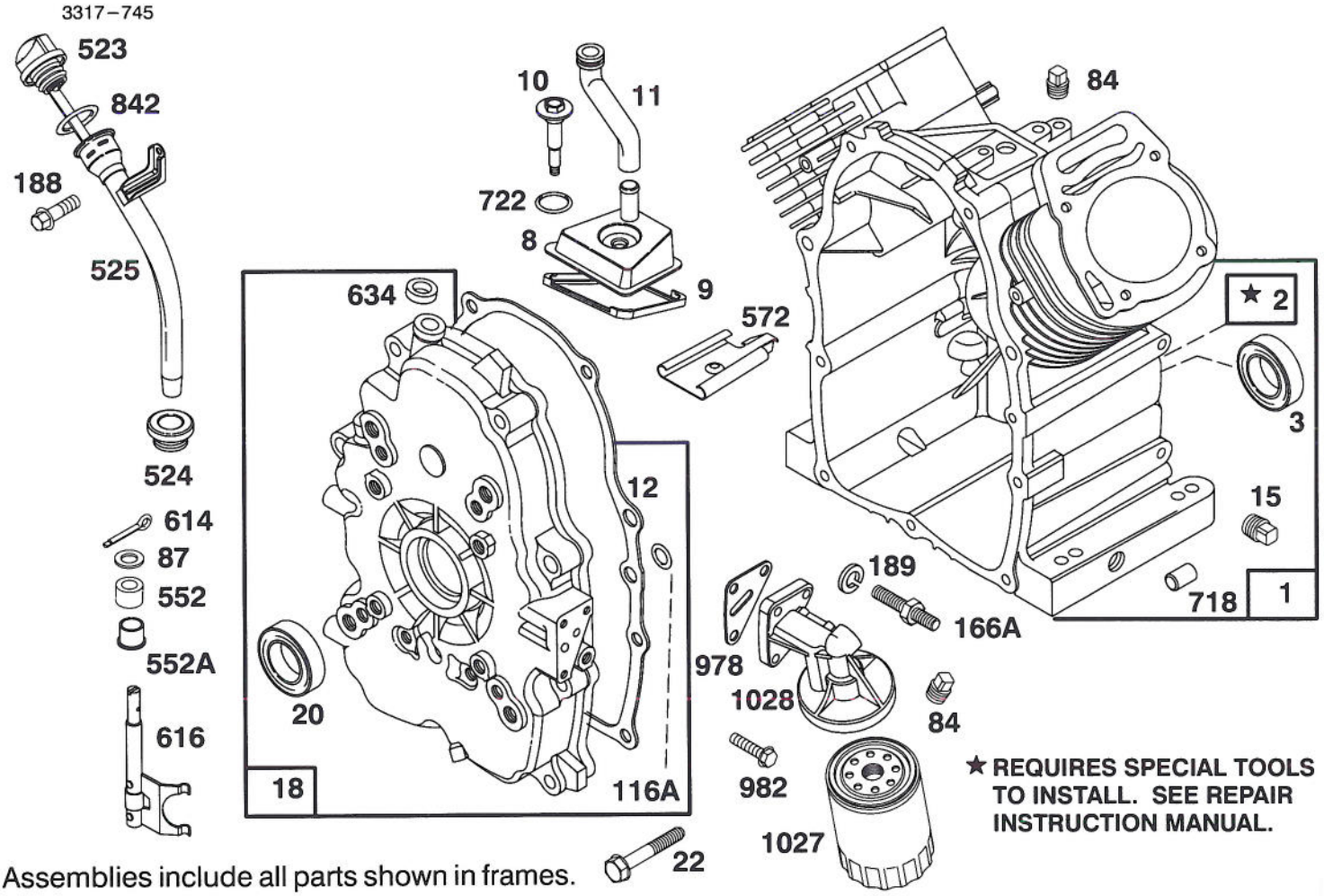
## ALIGNMENT TOOL NO. TOR200120




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**



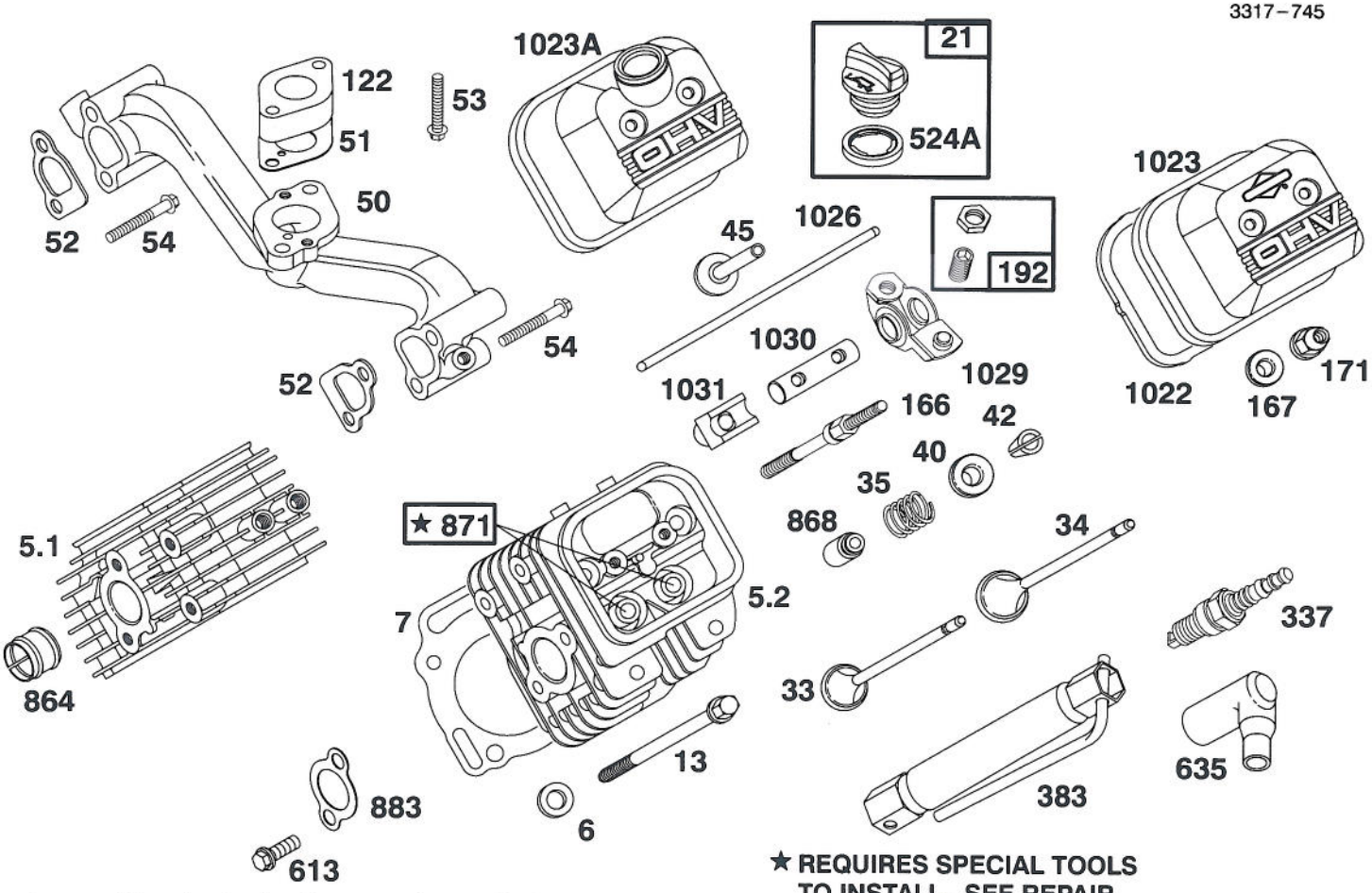

Assemblies include all parts shown in frames.

# 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.




Assemblies include all parts shown in frames.

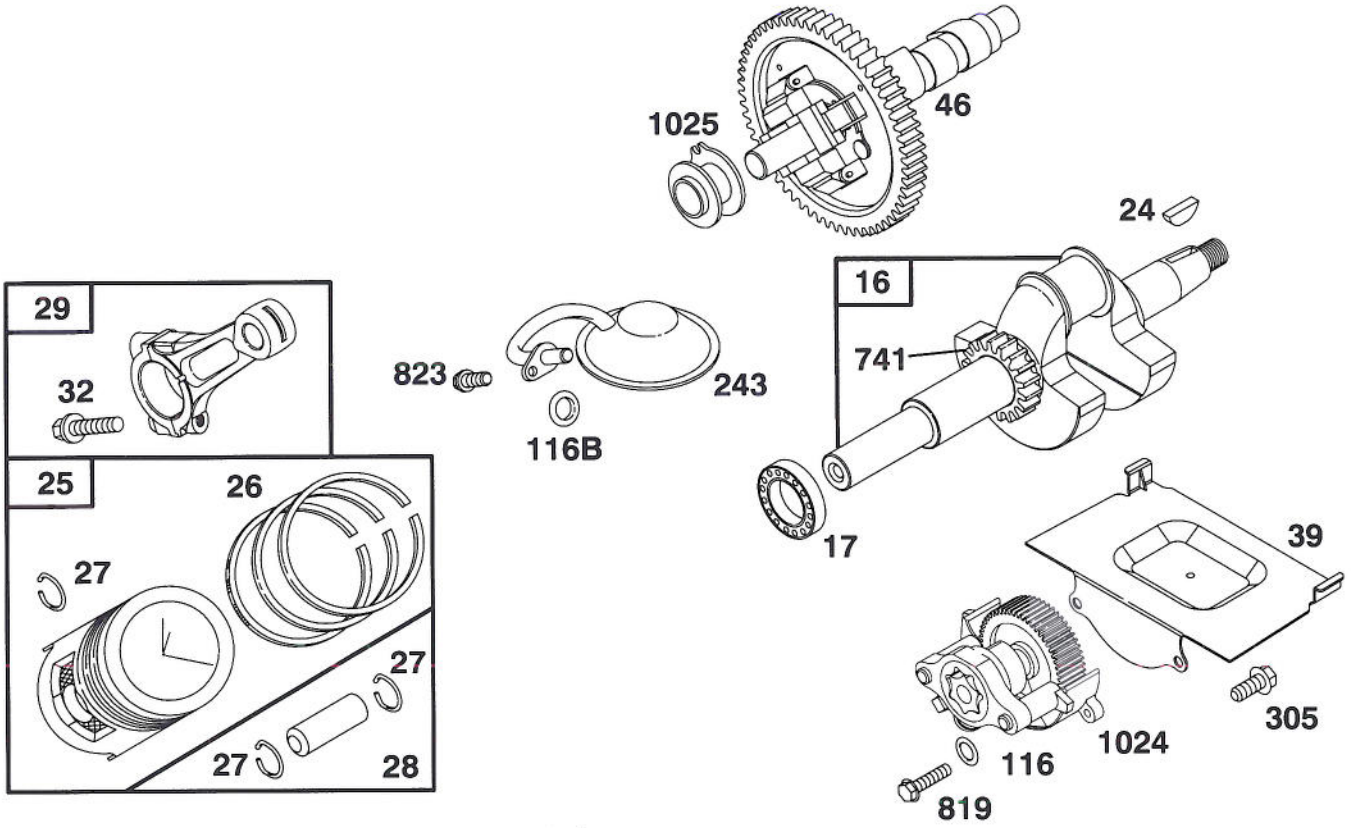
★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

# 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.



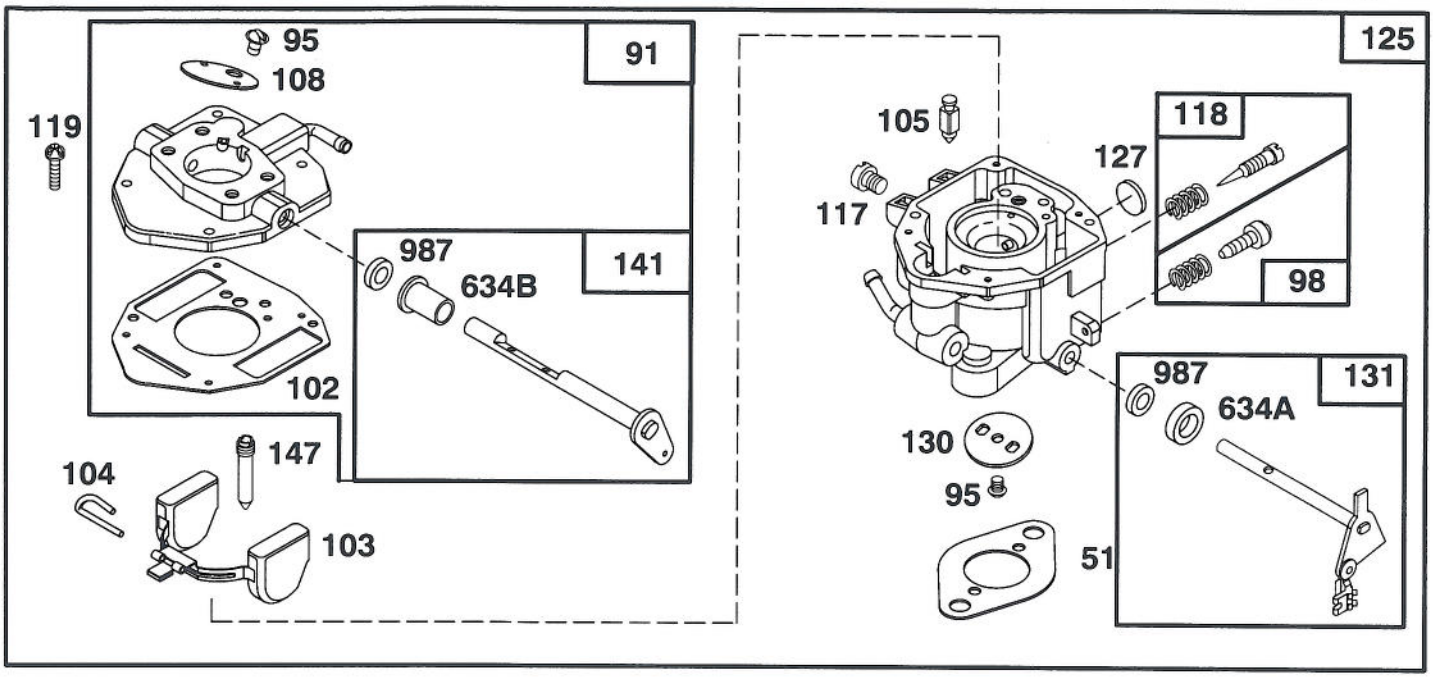

Assemblies include all parts shown in frames.

# ENGINE BRIGGS & STRATTON MODEL 303447–0479–01

| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 16 | 807589 | Crankshaft<br>**Note:** To Replace Crankshaft Gear Key – Order Part No. 94196.<br>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 | |

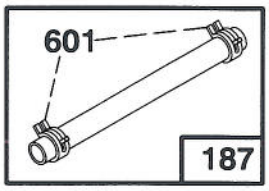
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| 29 | 807900 | Connecting Rod Assembly<br>**Note:** For Connecting Rod With .020" Undersize Crankpin Bore – Order Part No. 807803. | |
| 32 | 805395 | Screw – Connecting Rod | |
| 39 | 805654 | Plate – Windage | |
| 46 | 807542 | Gear – 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 | |

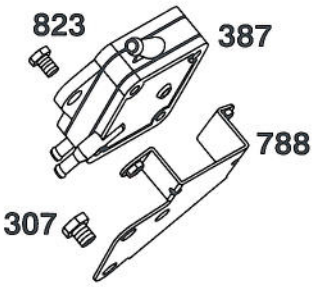
*Included in Gasket Set – Part No. 807989.









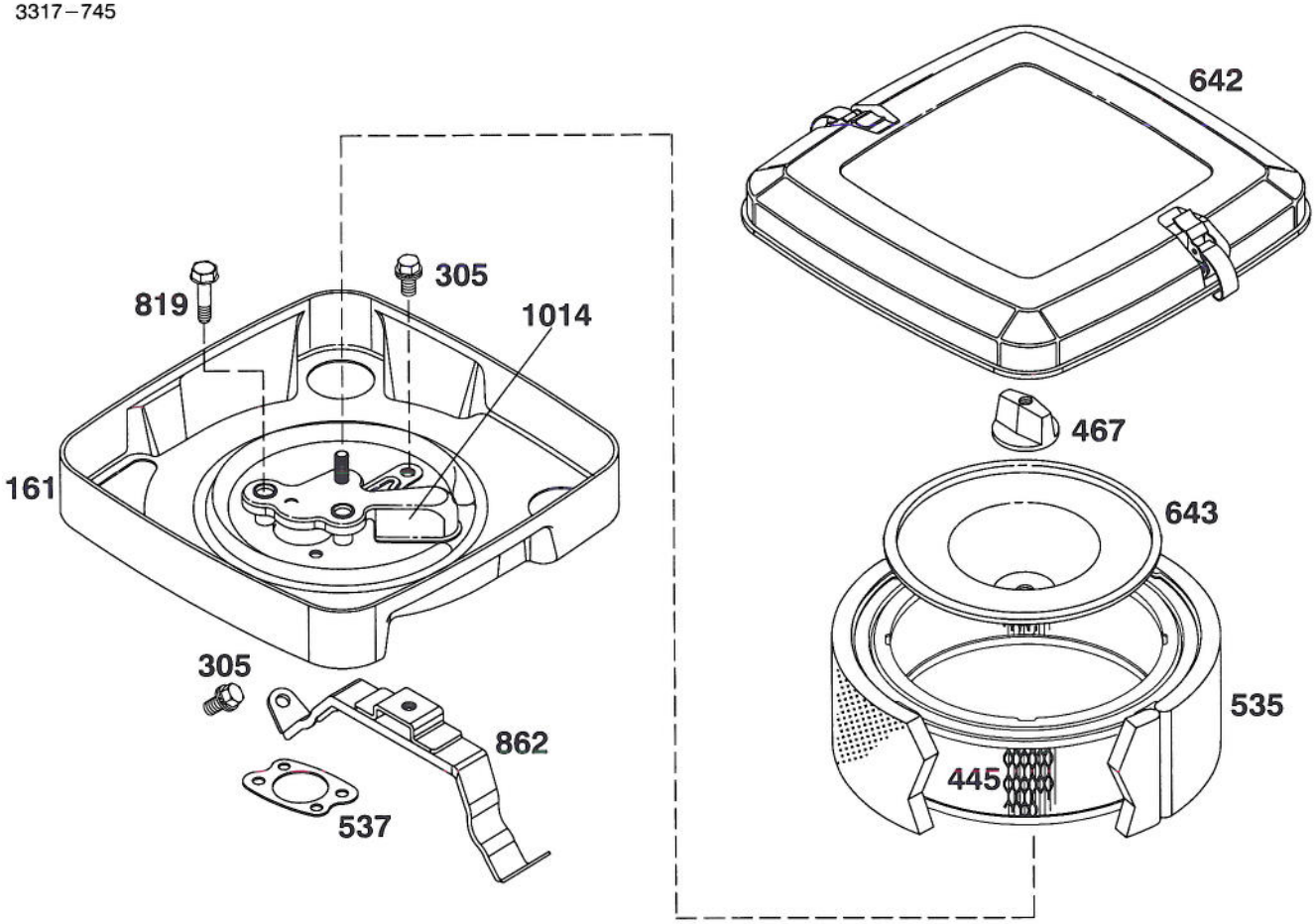

Assemblies include all parts shown in frames.

# 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.



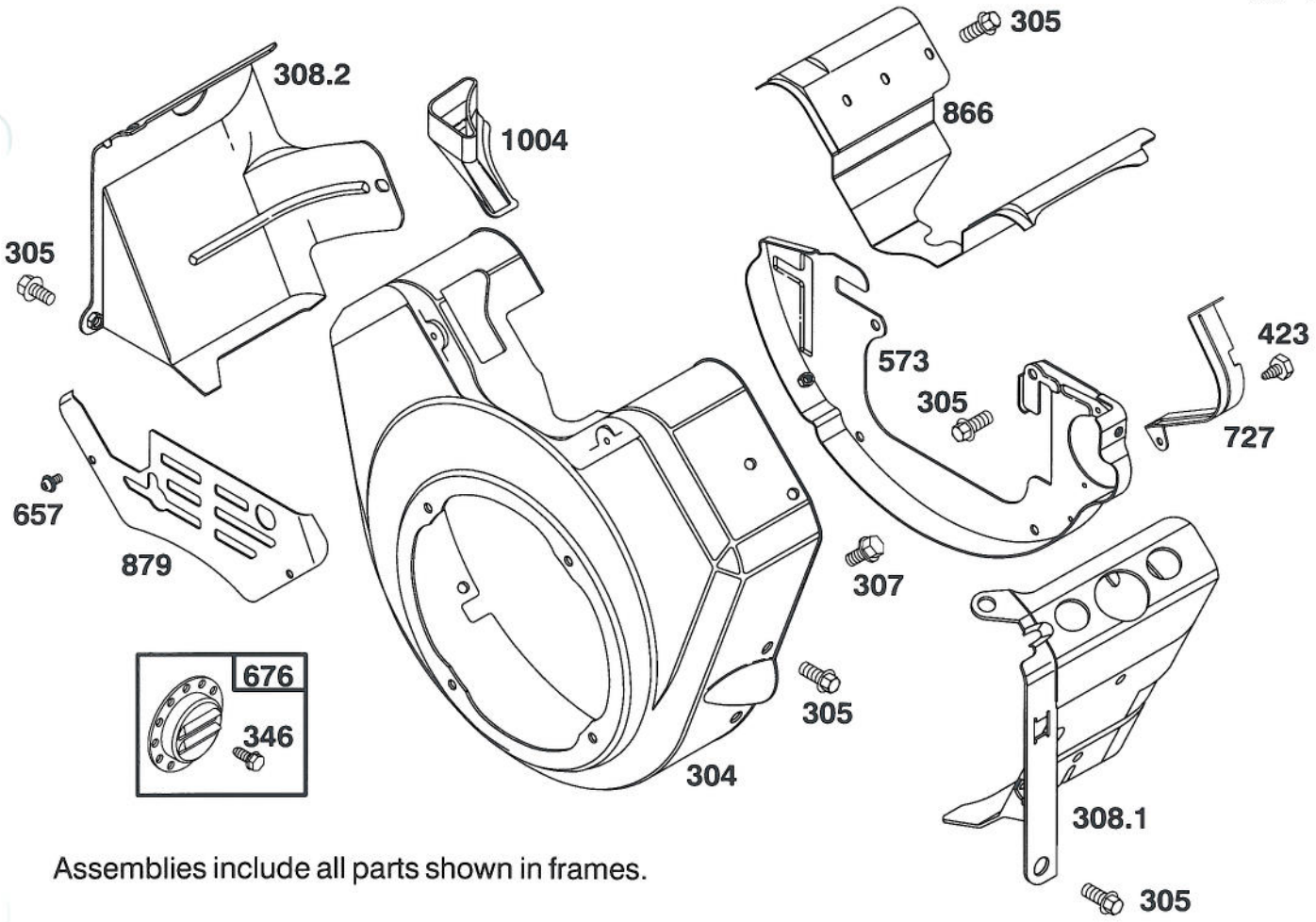

Assemblies include all parts shown in frames.

# 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.

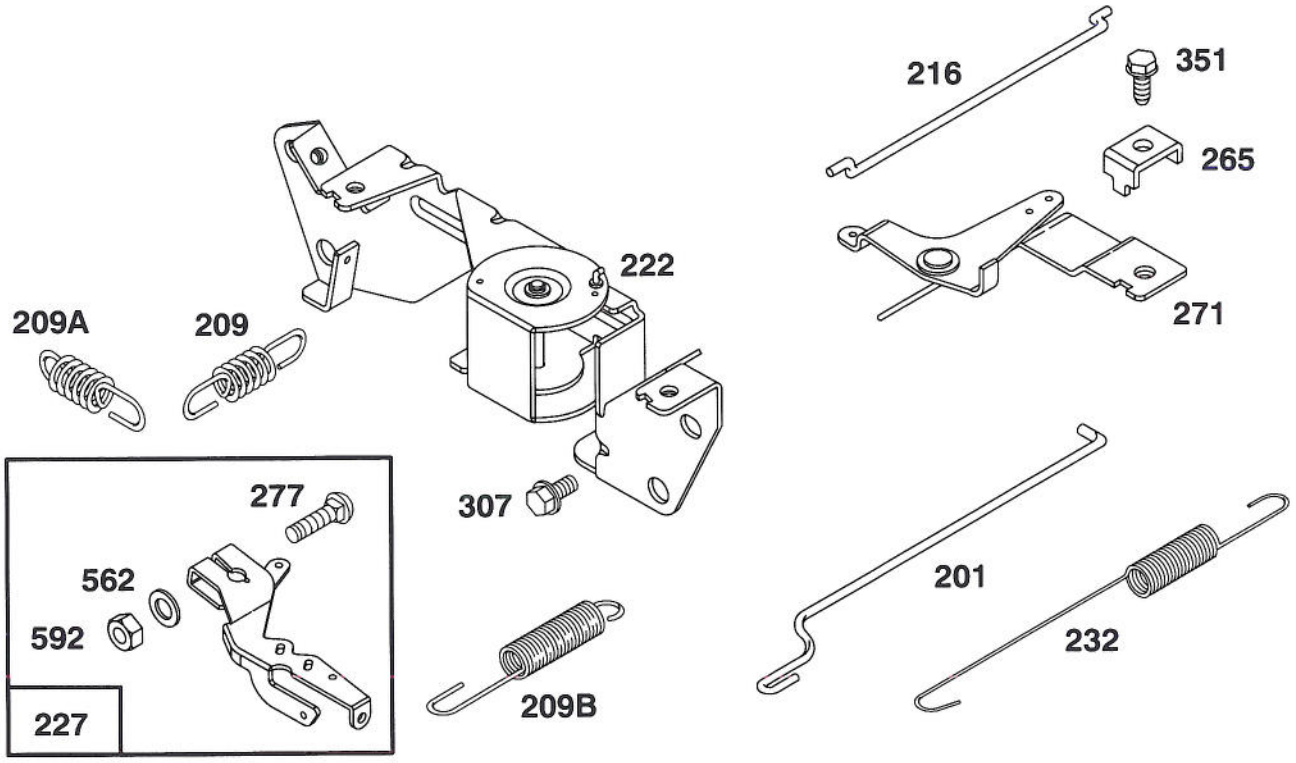



Assemblies include all parts shown in frames.

# 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 | |

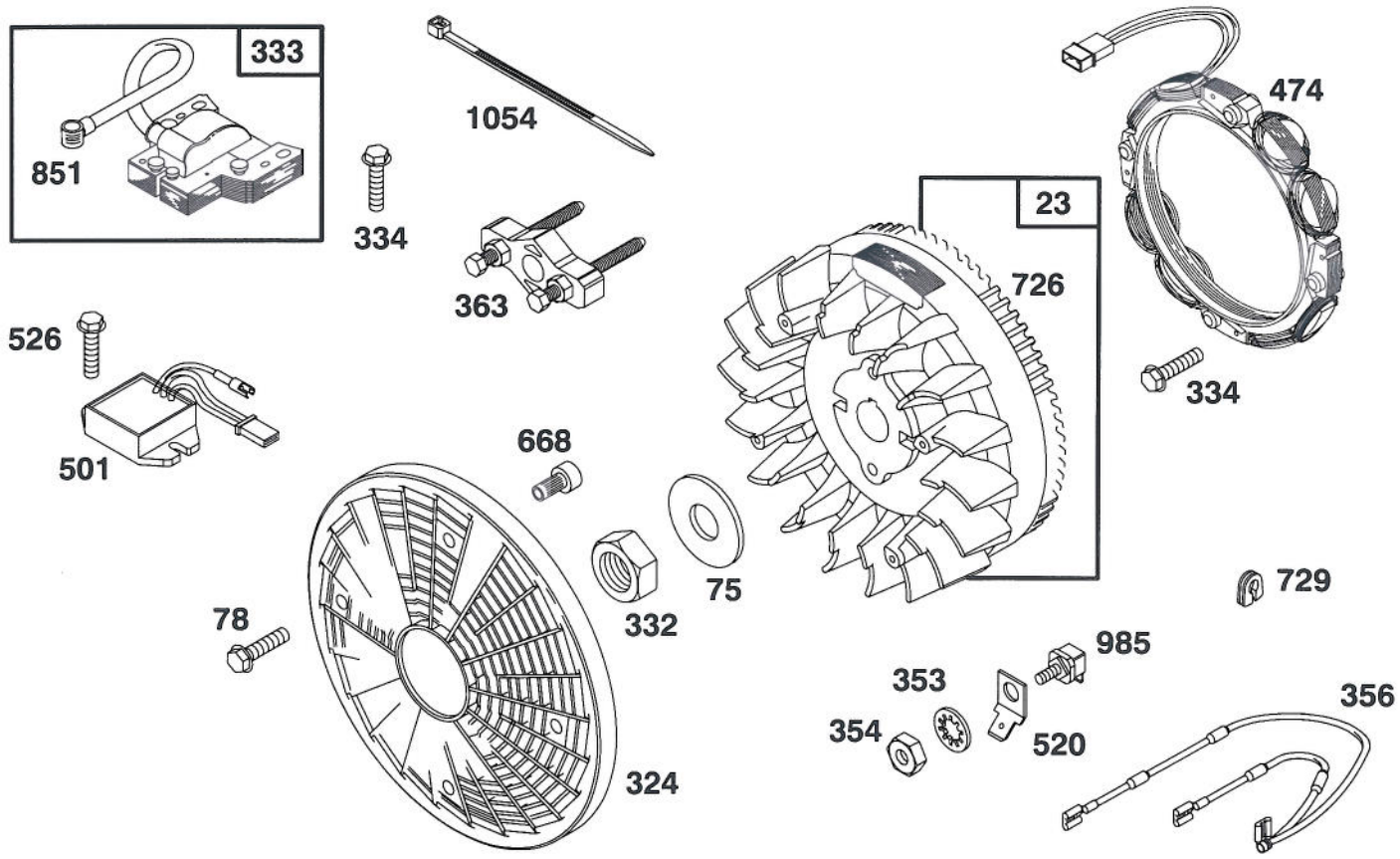



Assemblies include all parts shown in frames.

# 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. | |

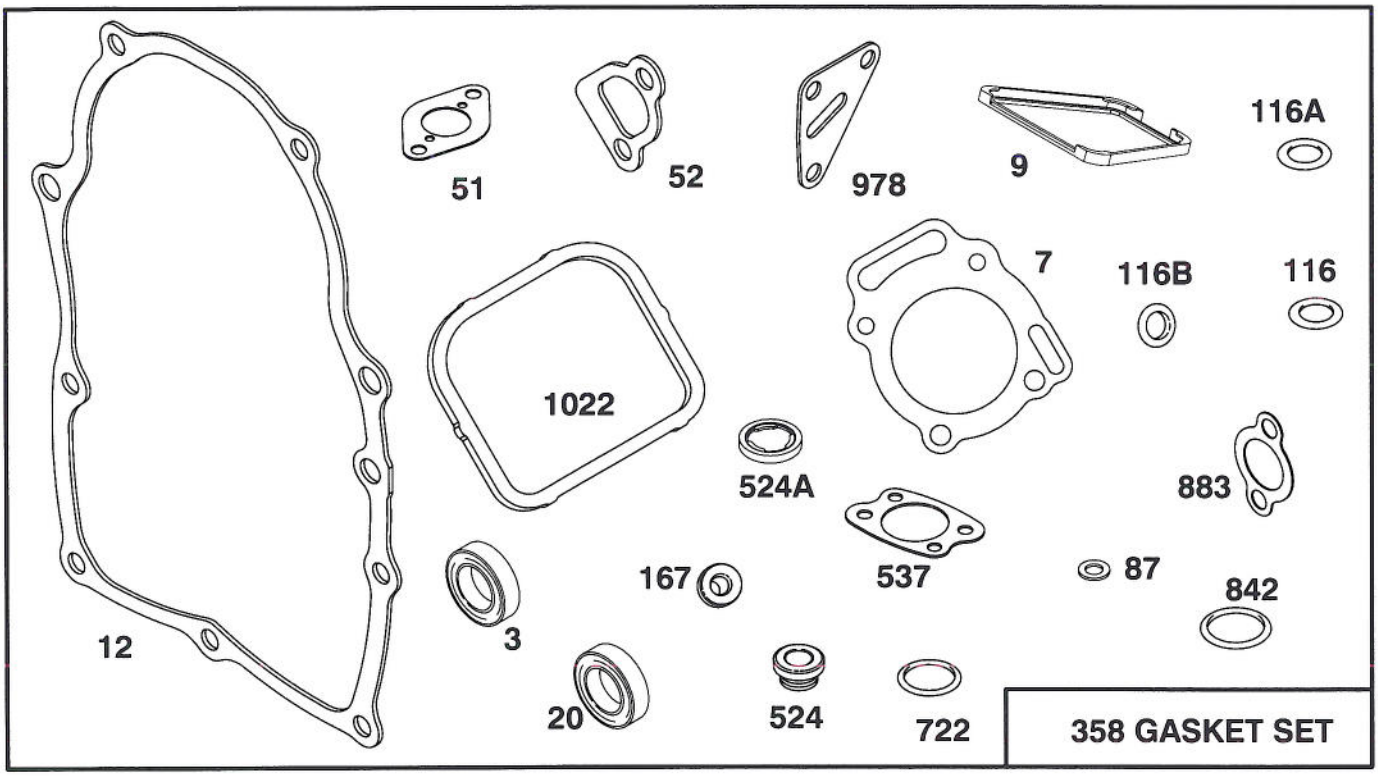



Assemblies include all parts shown in frames.

# 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 | |



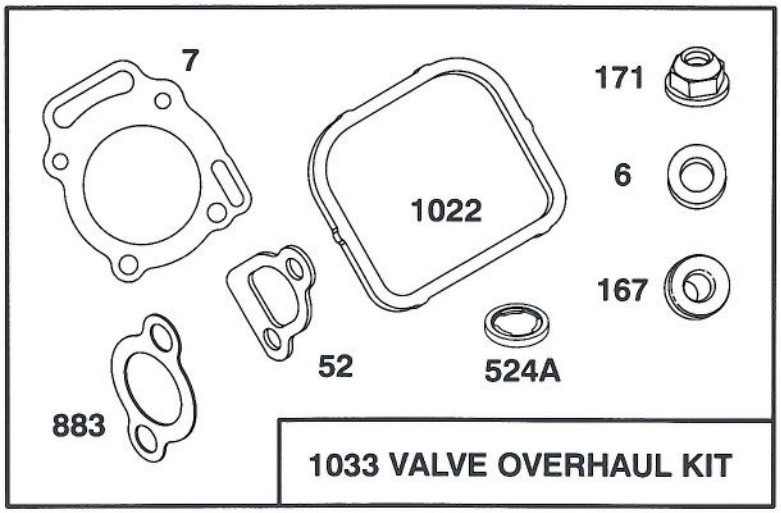

Assemblies include all parts shown in frames.

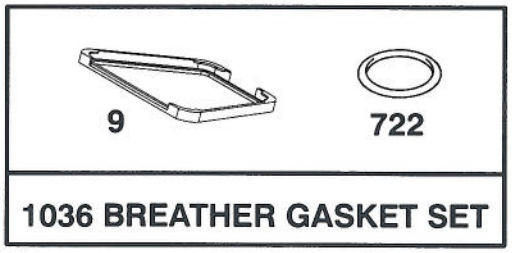
# ENGINE BRIGGS & STRATTON MODEL 303447–0479–01

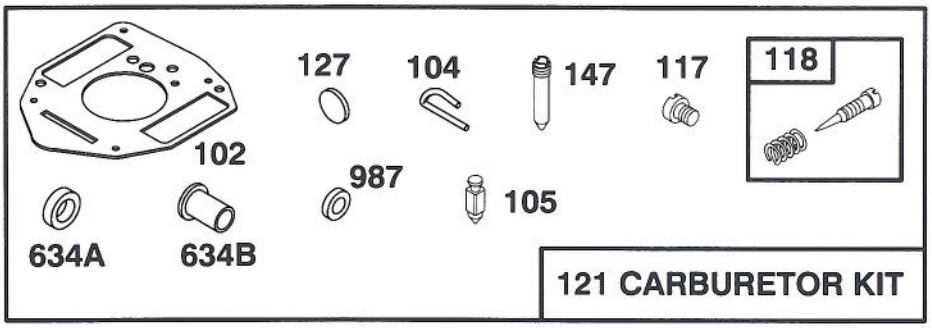
| Ref. No. | Part No. | Description | No. Used |
|---|---|---|---|
| *3 | 805101 | Seal – Oil | |
| *‡7 | 807986 | Gasket – Cylinder Head | |
| *9 | 805379 | Gasket – Breather | |
| *12 | 805112 | Gasket – Crankcase Cover | |
| *20 | 805049 | Seal – Oil | |
| *51 | 805264 | Gasket – Carburetor Mtg. | |
| *‡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.



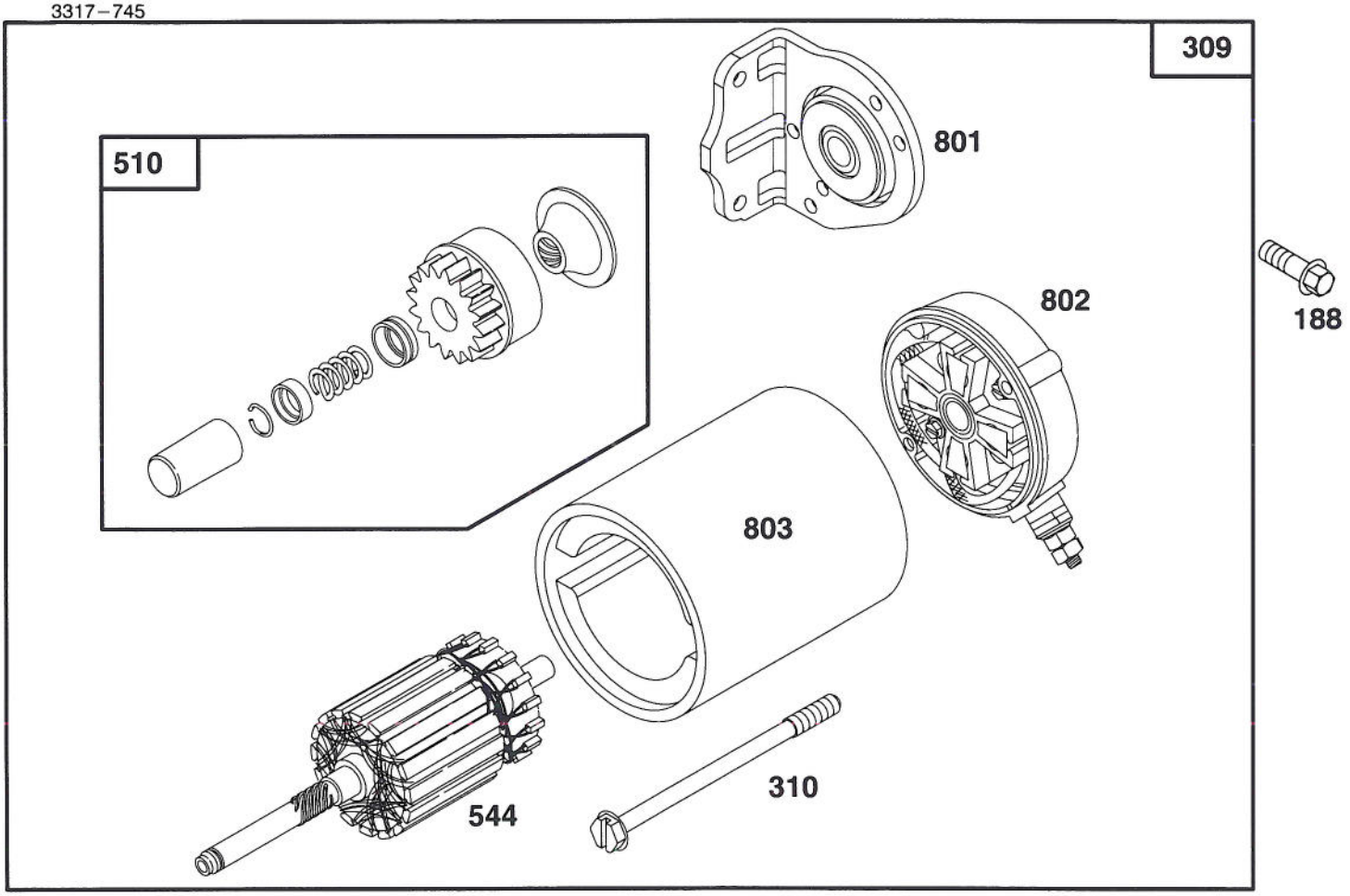

Assemblies include all parts shown in frames.

# 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<br>**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 – 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 |
| 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 | 34 | 1 | 1 |
| 18–6320 | Washer – Steering | 30 | 7 | 4 |
| 20–0070 | Tube | 35 | 5 | 1 |
| 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 – 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 | 34 | 3 | 1 |
| 29–9090 | Hose – Handle | 34 | 4 | 1 |
| 36–4310 | Brush | 34 | 5 | 1 |
| 37–8130 | Basket – Grass | 2 | * | 3 |
| 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 |
| 49–0300 | 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 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 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 52–9230 | Ring – Retaining | 18 | 2 | 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 |
| 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 |
| 58–6520 | Decal – Grease | 30 | 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 |
| 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 | 2 |
| 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 |
| 65–8320 | Bar – Gauge | 2 | * | 1 |
| 66–1660 | Spool – Lever Side | 21 | 13 | 1 |
| 66–2950 | Gauge – Hourmeter | 22 | 5 | 1 |
| 67–1300 | Decal – TORO | 20 | 39 | 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 | 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 |
| 70–9800 | 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 |
| 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 | 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 |
| 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 |
| 83–0700 | 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 |
| 83–0870 | Fitting – Hydraulic Straight | 24 | 32 | 3 |
| 83–0910 | Hose – Hydraulic | 24 | 30 | 2 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)



| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 83–0910 | Hose – Pump | 28 | 11 | 2 |
| 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 – Solenoid–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 |
| 83–1350 | Hose – Hydraulic | 12 | 45 | 1 |
| 83–1390 | Fitting – 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 |
| 83–1860 | 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 | 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 |
| 83–2240 | Arrestor – Spark | 27 | * | 1 |
| 83–2250 | Gauge – Sight | 24 | 25 | 1 |
| 83–2270 | Hose – Hydraulic | 28 | 8 | 1 |
| 83–2270 | Hose – Hydraulic | 21 | 15 | 1 |
| 83–2280 | Timer – Relay | 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 |
| 84–2203 | Control Valve Assembly | 16 | * | 1 |
| 84–2203 | 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 | 2 |
| 84–8730 | Hose – Hydraulic | 30 | 28 | 1 |
| 84–8740 | Hose – Hydraulic | 17 | 27 | 1 |
| 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 |
| 86–9820 | Frame – Pull Rear | 6 | 1 | 1 |
| 88–9500 | Needle Valve Assembly | 12 | * | 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 |
| 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 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 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 – 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 |
| 94–2690 | Filter – Fuel | 25 | 13 | 1 |
| 92–3058 | Spring – Centering | 13 | 41 | 1 |
| 92–3148 | Spring | 15 | 23 | 1 |
| 92–4063 | Plug – Filler Cap | 24 | 7 | 1 |
| 92–6533 | Kit – Cushion | 19 | 38 | 1 |
| 92–6534 | Shell | 19 | 39 | 1 |
| 92–7189 | Tank – Fuel | 25 | 2 | 1 |
| 92–8020 | Adapter – Breather | 24 | 21 | 1 |
| 92–8690 | Steering – Valve Assembly | 17 | 24 | 1 |
| 92–8691 | Bushing – Seal Gland | 18 | 3 | 1 |
| 92–8694 | Cap – End | 18 | 18 | 1 |
| 92–8695 | Seal Kit | 18 | * | 1 |
| 92–8696 | Screw – Torx Hd. | 18 | 19 | 7 |
| 92–8697 | Plate – Wear | 18 | 15 | 1 |
| 92–8966 | Reservoir – Hydraulic | 24 | 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 | 1 |
| 92–9762 | Screw – Cap Hex. Hd. | 9 | 14 | 7 |
| 92–9763 | Rotor Set | 9 | * | 1 |
| 92–9764 | Hydraulic Pump Assembly | 28 | 9 | 1 |
| 92–9772 | Shaft – Drive | 29 | 20 | 1 |
| 92–9773 | Gear – 66B | 29 | 21 | 1 |
| 92–9774 | Idler Shaft – Gear Assy. | 29 | 12 | 1 |
| 93–1386 | Section #5 Assembly | 16 | * | 1 |
| 93–2524 | Fork – Castor | 30 | 19 | 1 |
| 93–2694 | Cover – R.H. | 20 | 2 | 1 |
| 93–3101 | Cap – Fuel | 25 | 1 | 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 |
| 93–7160 | Cap – Hydraulic Reservoir | 24 | 8 | 1 |
| 93–7629 | Pad – Brake | 2 | 49 | 1 |
| 93–7630 | Pad – Mow | 2 | 39 | 1 |
| 93–7631 | Pad – Lift | 2 | 37 | 1 |
| 93–9934 | Traction Handle Assembly | 10 | 12 | 1 |
| 93–9936 | Bracket – Traction Return | 10 | 44 | 1 |
| 93–9937 | Return Cable Assembly | 10 | 45 | 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 |
| 237–30 | Seal – O–Ring | 11 | 7 | 2 |
| 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 | 4 |
| 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 | O–Ring | 20 | 41 | 1 |
| 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 |
| 237–81 | 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 | 34 | 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 |
| 2412–39 | Clamp – R | 22 | 28 | 1 |
| 2412–41 | Clamp – R | 25 | 5 | 3 |
| 2412–41 | Clamp–R | 12 | 47 | 2 |
| 2412–94 | Clamp – R | 25 | 10 | 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 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)



| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 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 |
| 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 | 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 – Hex. | 10 | 48 | 1 |
| 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. | 10 | 49 | 1 |
| 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 | 1 |
| 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 – 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. | 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 | 16 | 57 | 4 |
| 3253–4 | Washer – Lock | 19 | 2 | 2 |
| 3253–4 | Washer – Lock | 20 | 9 | 2 |
| 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 |
| 3256–1 | Washer – Flat | 2 | 51 | 9 |
| 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 | 44 | 1 |
| 3256–22 | Washer – Flat | 24 | 45 | 1 |
| 3256–22 | Washer – Flat | 12 | 52 | 1 |
| 3256–23 | Washer – Flat | 3 | 2 | 3 |
| 3256–23 | Washer – Flat | 4 | 20 | 3 |
| 3256–23 | Washer – Flat | 6 | 28 | 3 |
| 3256–23 | Washer – Flat | 28 | 17 | 8 |
| 3256–23 | Washer – Flat | 27 | 23 | 2 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 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 |
| 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 |
| 3272–10 | 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 | 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 |
| 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 | 12 | * | 1 |
| 3290–378 | Tie – Cable | 21 | * | 3 |
| 3290–378 | Tie – Cable | 27 | * | 2 |
| 3290–378 | Tie – Cable | 32 | * | 15 |
| 3290–379 | Tie – Cable | 12 | * | 2 |
| 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 | 4 |
| 3296–29 | Nut – Lock | 28 | 14 | 4 |
| 3296–29 | Nut – Lock | 10 | 16 | 3 |
| 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 |
| 32108–100 | Screw – Flat Hd. | 8 | 16 | 1 |
| 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 Head | 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 |
| 340–14 | 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 |
| 340–101 | Fitting – Hydraulic 45° | 11 | 8 | 1 |
| 340–103 | Fitting – Hydraulic 45° | 6 | 12 | 2 |
| 340–105 | Elbow – 90° Adjustable | 21 | 7 | 3 |
| 340–105 | Fitting – Hydraulic 90° | 20 | 42 | 1 |
| 340–105 | Fitting – Hydraulic 90° | 28 | 26 | 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 |
| 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 |

*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)



| Part No. | Description | Pg. No. | Ref. No. | Qty. |
|---|---|---|---|---|
| 353–306 | Ring – Backup | 15 | 4 | 5 |
| 353–306 | Ring – Backup | 13 | 7 | 4 |
| 353–328 | Washer – Shim | 13 | 15A/R | |
| 353–328 | Washer – Shim | 15 | 32A/R | |
| 353–329 | Washer – Shim | 13 | 16A/R | |
| 353–329 | Washer – Shim | 15 | 33A/R | |
| 353–330 | Washer – Shim | 13 | 17A/R | |
| 353–330 | Washer – Shim | 15 | 34A/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 | 24 | 38 | 1 |
| 353–550 | Plug Assembly | 15 | 13 | 1 |
| 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 |
| 353–754 | Bonnet – R. Detent | 13 | 42 | 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 |
| 353–777 | Body – Motor | 33 | 12 | 1 |
| 353–780 | Positioner – R. Detent (Out) | 14 | * | 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 |
| 353–835 | 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 | 29 | 19 | 4 |
| 353–886 | Ring – Retaining | 29 | 18 | 2 |
| 353–919 | Plate – Gear 66B | 29 | 14 | 1 |
| 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 |
| 353–967 | Gear – 33B | 29 | 24 | 6 |
| 353–969 | Plate – Gear 33B | 29 | 25 | 3 |
| 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 |
| 354–11 | 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 | 13 | 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 |
| 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.

# TABLE OF CONTENTS


| Description | Page |
|---|---|
| Control Pedal Assembly | 1–2 |
| Pull Frame Assembly L.H. | 3 |
| Pull Frame Assembly R.H. | 4 |
| Hydraulic Cylinder Assembly No. 83–2580 | 5 |
| Pull Frame Assembly Rear | 6 |
| Hydraulic Cylinder Assembly No. 83–7230 | 7 |
| Front Wheel & Brake Assembly | 8 |
| Hydraulic Drive Motor Assembly No. 92–9199 | 9 |
| Traction Controls Assembly | 10 |
| Control Valve Installation Assembly | 11–12 |
| Control Valve Assembly No. 84–2203 (Sections 1 & 2) | 13–14 |
| Control Valve Assembly No. 84–2203 (Sections 3 thru 5) | 15–16 |
| Steering Arm Assembly | 17 |
| Power Steering Valve Assembly No. 92–8690 | 18 |
| Seat Assembly | 19 |
| Frame Assembly | 20 |
| Variable Traction Control Assembly | 21 |
| Control Panel Assembly | 22 |
| Electrical Schematic | 23 |
| Hydraulic Reservoir Assembly | 24 |
| Fuel Tank Assembly | 25 |
| Hydraulic Schematic | 26 |
| Engine Installation Assembly | 27 |
| Hydraulic Pump Installation Assembly | 28 |
| Hydraulic Pump No. 92–9764 | 29 |
| Rear Wheel Assembly | 30 |
| Hydraulic Cylinder Assembly No. 83–2330 | 31 |
| Reel Motor Installation Assembly | 32 |
| Reel Motor Assembly No. 70–9800 | 33 |
| Special Tools | 34–35 |
| Briggs & Stratton Engine Assembly Model 303447–0479–01 | 36–46 |
| TORO Part Number Index | 47–53 |

# MAINTENANCE RECORD

| Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

# MAINTENANCE RECORD

| Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |