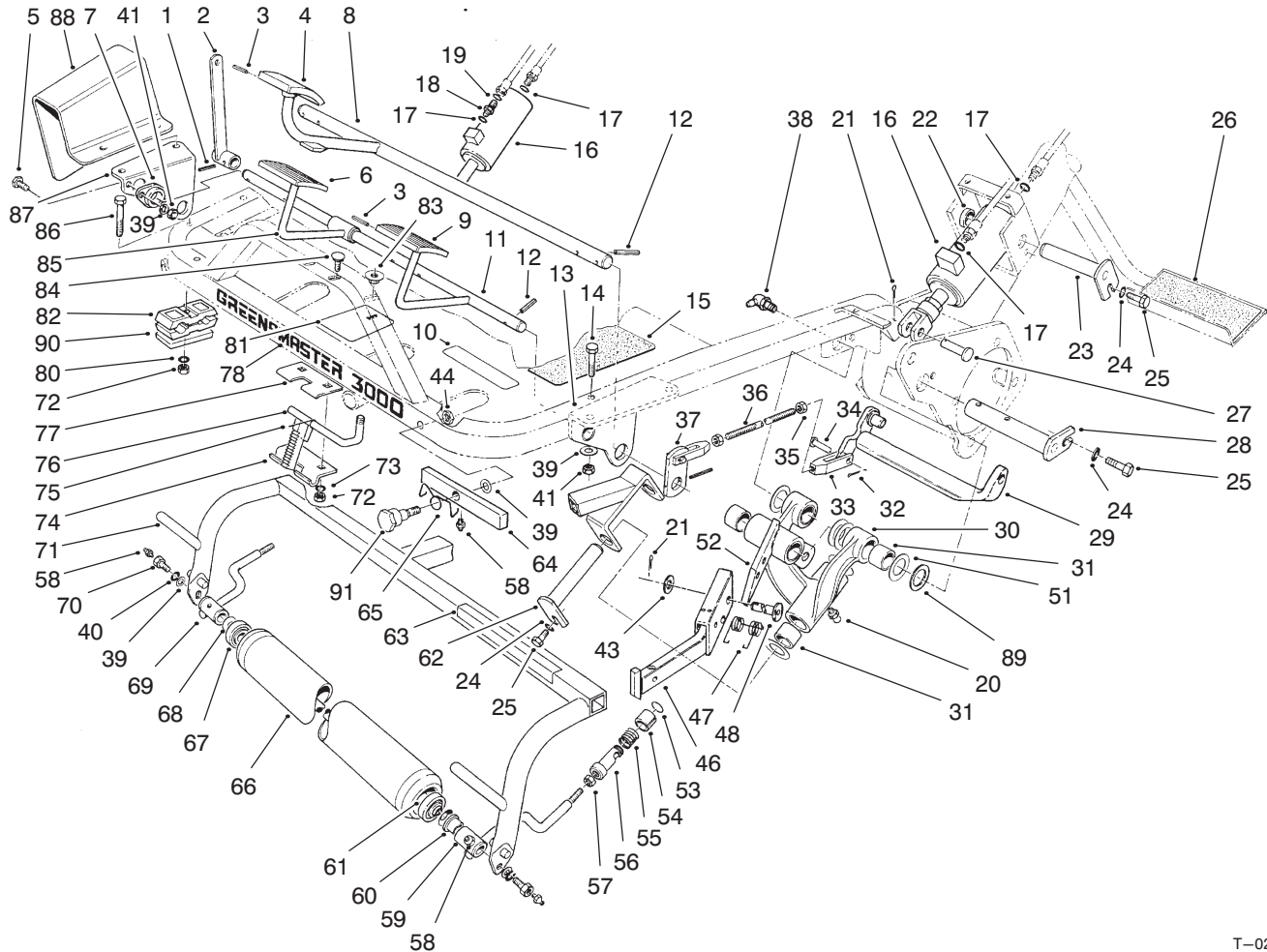


# TORO®

MODEL NO. 04350 — 60001 &amp; UP

## PARTS CATALOG

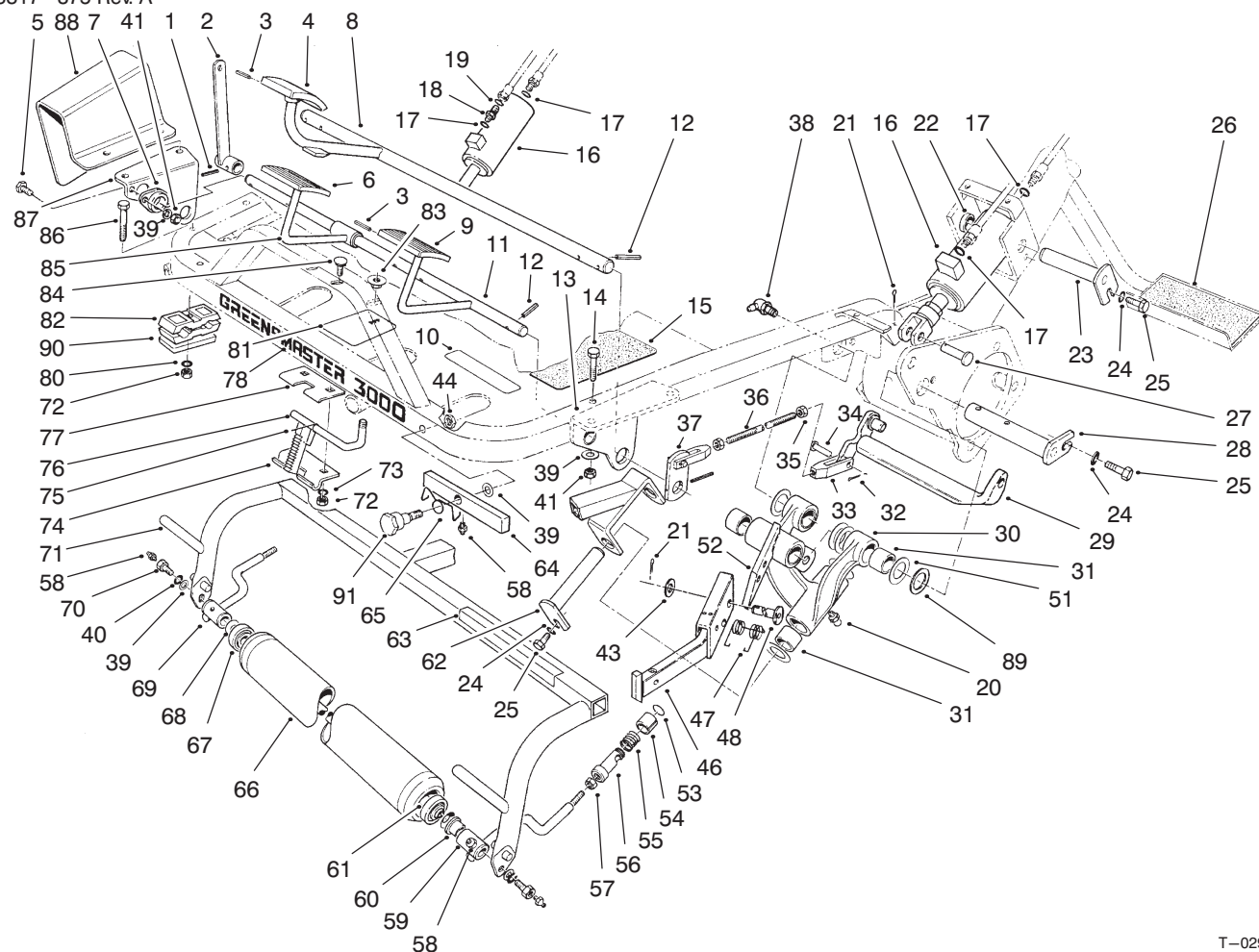
### GREENSMASTER 3000 TRACTION UNIT



T-0291A

## FOOT PEDALS & ROLLER ASSEMBLY

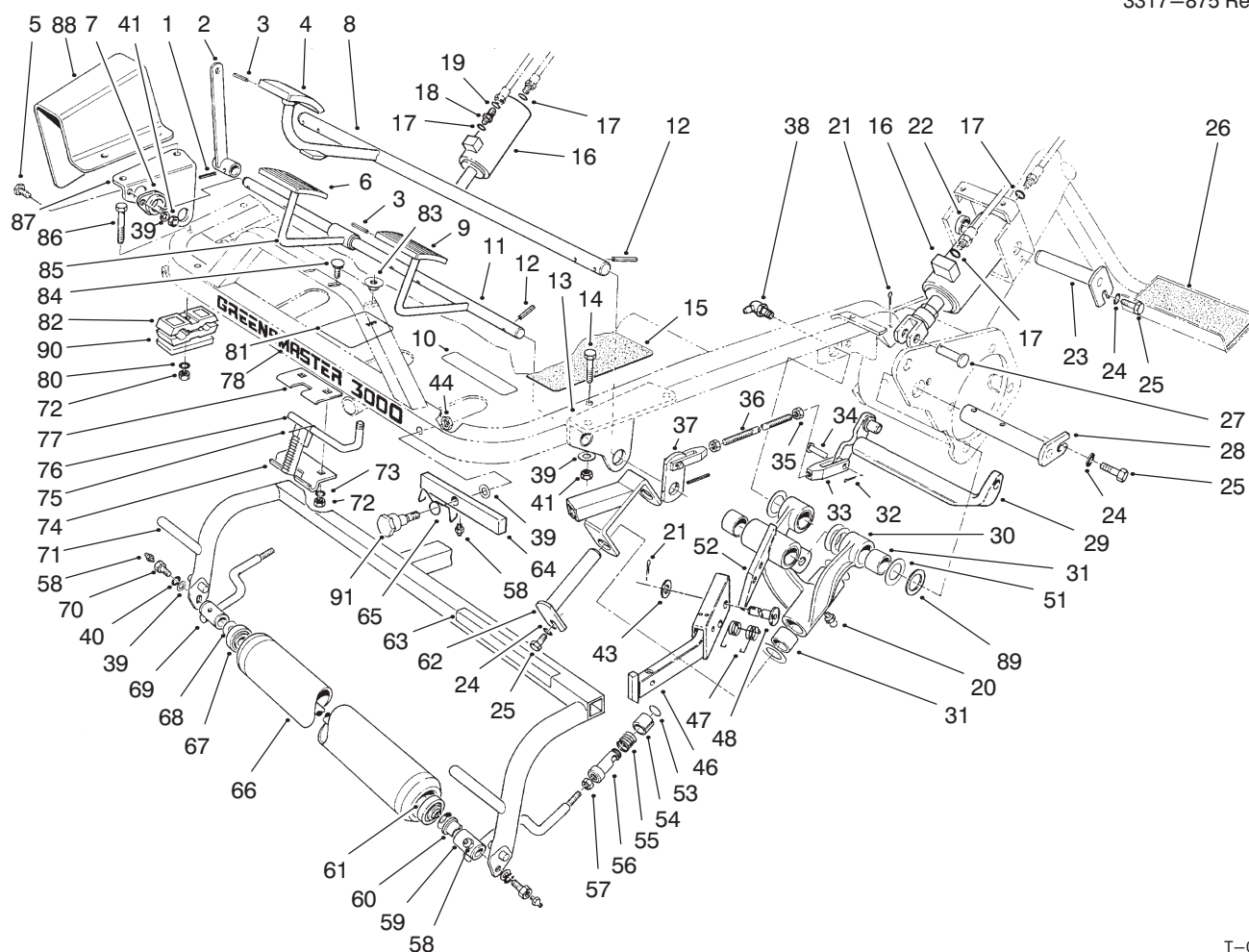
| Ref. No. | Part No. | Description               | No. Used | Ref. No. | Part No. | Description           | No. Used |
|----------|----------|---------------------------|----------|----------|----------|-----------------------|----------|
| 1        | 32121-6  | Pin — Roll                | 1        | 17       | 237-78   | O-Ring                | 4        |
| 2        | 49-6200  | Lever — Cutting Control   | 1        | 18       | 340-92   | Fitting — Straight    | 1        |
| 3        | 32121-45 | Pin — Roll                | 3        | 19       | 237-21   | O-Ring                | 1        |
| 4        | 93-7629  | Foot Pad — Brake          | 1        | 20       | 302-60   | Fitting — Grease      | 4        |
| 5        | 3234-1   | Screw — Hex. Flange Hd.   | 4        | 21       | 3272-11  | Pin — Cotter          | 3        |
| 6        | 93-7630  | Foot Pad — Mow            | 1        | 22       | 74-3730  | Spacer                | 2        |
| 7        | 27-2320  | Bearing — Flange          | 2        | 23       | 10-6060  | Pin — Ram Pivot       | 2        |
| 8        | 83-0160  | Shaft — Brake             | 1        | 24       | 3256-23  | Washer — Plain        | 6        |
| 9        | 93-7631  | Foot Pad — Lift           | 1        | 25       | 322-1    | Screw — Cap, Hex. Hd. | 6        |
| 10       | 93-8075  | Decal — Mow/Lift          | 1        | 26       | 62-2660  | Pad — Foot Step       | 1        |
| 11       | 88-9660  | Shaft — Cutting Control   | 1        | 27       | 283-8    | Pin — Clevis          | 2        |
| 12       | 32121-35 | Pin — Roll                | 8        | 28       | 10-6110  | Pin — Hinge           | 2        |
| 13       | 88-9640  | Lift Pivot Bracket — L.H. | 1        | 29       | 71-1510  | Lever — Brake         | 1        |
| 14       | 323-10   | Screw — Cap, Hex Hd.      | 4        | 30       | 10-7820  | Hinge — Pivot         | 1        |
| 15       | 49-6120  | Pad — Footrest            | 1        |          |          | (Incl. Ref. #31)      | 1        |
| 16       | 84-8290  | Cylinder — Hydraulic      | 2        | 31       | 3-0348   | Bushing               | 10       |



T-0291A

## FOOT PEDALS & ROLLER ASSEMBLY (Continued)

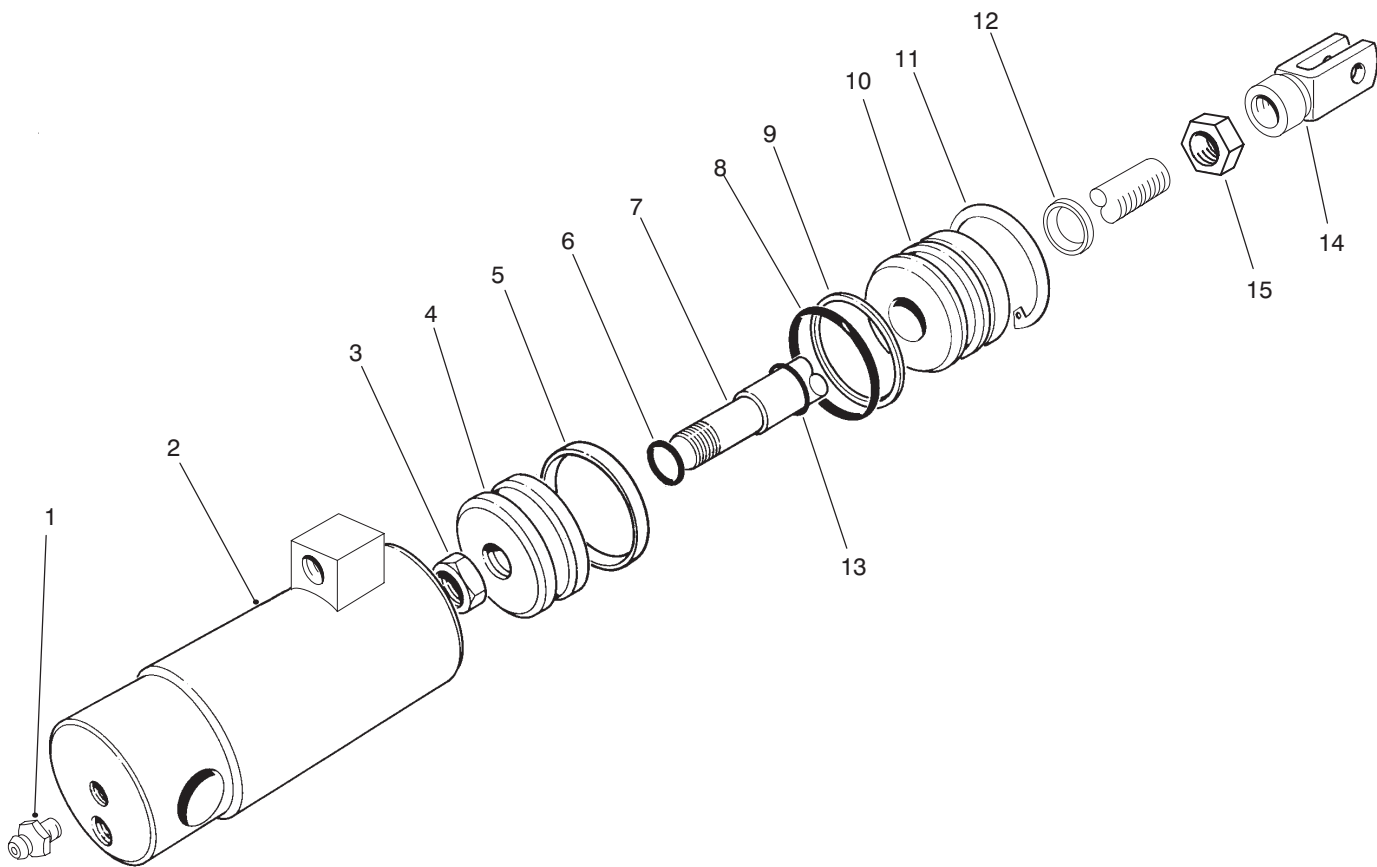
| Ref. No. | Part No. | Description                                      | No. Used | Ref. No. | Part No. | Description                                  | No. Used |
|----------|----------|--------------------------------------------------|----------|----------|----------|----------------------------------------------|----------|
| 32       | 3272-6   | Pin - Cotter                                     | 4        | 59       | 92-0586  | Pull Arm Assembly - L.H.<br>(Incl. Ref. #60) | 3        |
| 33       | 282-2    | Yoke                                             | 4        | 60       | 3-1506   | Bushing                                      | 12       |
| 34       | 283-1    | Pin - Clevis                                     | 4        | 61       | 21-8470  | Shaft - Yoke Roller                          | 3        |
| 35       | 3220-2   | Nut - Hex                                        | 4        | 62       | 10-6090  | Pin - Pivot                                  | 2        |
| 36       | 27-2270  | Rod - Brake Adjustment                           | 2        | 63       | 62-5070  | Decal - Danger                               | 1        |
| 37       | 10-8100  | Strap - Brake Shaft                              | 2        | 64       | 83-0060  | Lift Pivot                                   | 1        |
| 38       | 302-11   | Fitting - Grease 45°                             |          | 65       | 83-0080  | Spring - Lift Pivot                          | 1        |
| 39       | 3256-24  | Washer - Flat                                    | 15       | 66       | 52-2720  | Roller Assembly<br>(Incl. Ref. #67)          | 3        |
| 40       | 3253-21  | Washer - Lock                                    | 8        | 67       | 251-141  | Bearing - Ball                               | 6        |
| 41       | 3296-59  | Nut - Hex.                                       | 8        | 68       | 3290-317 | Washer - Spring                              | 6        |
| 43       | 3256-26  | Washer - Flat                                    | 1        | 69       | 92-0585  | Pull Arm Assembly - R.H.<br>(Incl. Ref. #60) | 3        |
| 44       | 3296-39  | Nut - Lock                                       | 1        | 70       | 11-0160  | Roller Shaft Screw Assy.<br>(Incl. Ref. #58) | 6        |
| 46       | 94-5586  | Bar - Lift Arm L.H.                              | 1        | 71       | 92-9176  | Pull Frame - L.H.                            | 1        |
| 47       | 57-7650  | Spring - Torsion                                 | 1        | 72       | 3296-16  | Nut - Hex                                    | 3        |
| 48       | 63-8750  | Pin - Pivot                                      | 1        | 73       | 3253-3   | Washer - Lock                                | 2        |
| 51       | 10-8110  | Washer - Thrust                                  | 18       | 74       | 10-7890  | Hinge - Lower, Park Brake                    | 1        |
| 52       | 62-2460  | Lift Arm - L.H.<br>(Incl. Ref. #31)              | 1        | 75       | 10-8140  | Spring - Brake Latch                         | 1        |
| 53       |          | Ring - Retaining                                 | 6        | 76       | 10-7850  | Latch - Parking Brake                        | 1        |
| 54       |          | Sleeve                                           | 6        | 77       | 10-7880  | Hinge - Upper, Park Brake                    | 1        |
| 55       |          | Spring                                           | 6        | 78       | 92-1199  | Decal - Greensmaster 3000                    | 1        |
| 56       | 94-2959  | Ball Joint Receiver Assy.<br>(Incl. Ref. #53-55) | 6        | 80       | 3256-22  | Washer - Flat                                | 1        |
| 57       | 3220-3   | Nut - Hex, Jam                                   | 6        | 81       | 27-2830  | Decal - Parking Brake                        | 1        |
| 58       | 302-5    | Fitting - Grease                                 | 8        |          |          |                                              |          |



T-0291A

## FOOT PEDALS & ROLLER ASSEMBLY (Continued)

| Ref. No. | Part No.  | Description          | No. Used | Ref. No. | Part No. | Description               | No. Used |
|----------|-----------|----------------------|----------|----------|----------|---------------------------|----------|
| 82       | 56-7970   | Clamp – Tube         | 2        | 87       | 88-9630  | Lift Pivot Bracket – R.H. | 1        |
| 83       | 32141-111 | Nut – Hex Hd. Flange | 1        | 88       | 49-6110  | Guard – Transfer Rod      | 1        |
| 84       | 3229-22   | Bolt – Carriage      | 2        | 89       | 5-1226   | Washer – Shim             | 2        |
| 85       | 83-0140   | Foot Pedal           | 1        | 90       | 69-9760  | Plate – Cover             | 1        |
| 86       | 321-23    | Screw – Cap, Hex Hd. | 1        | 91       | 83-2590  | Bolt – Shoulder           | 1        |



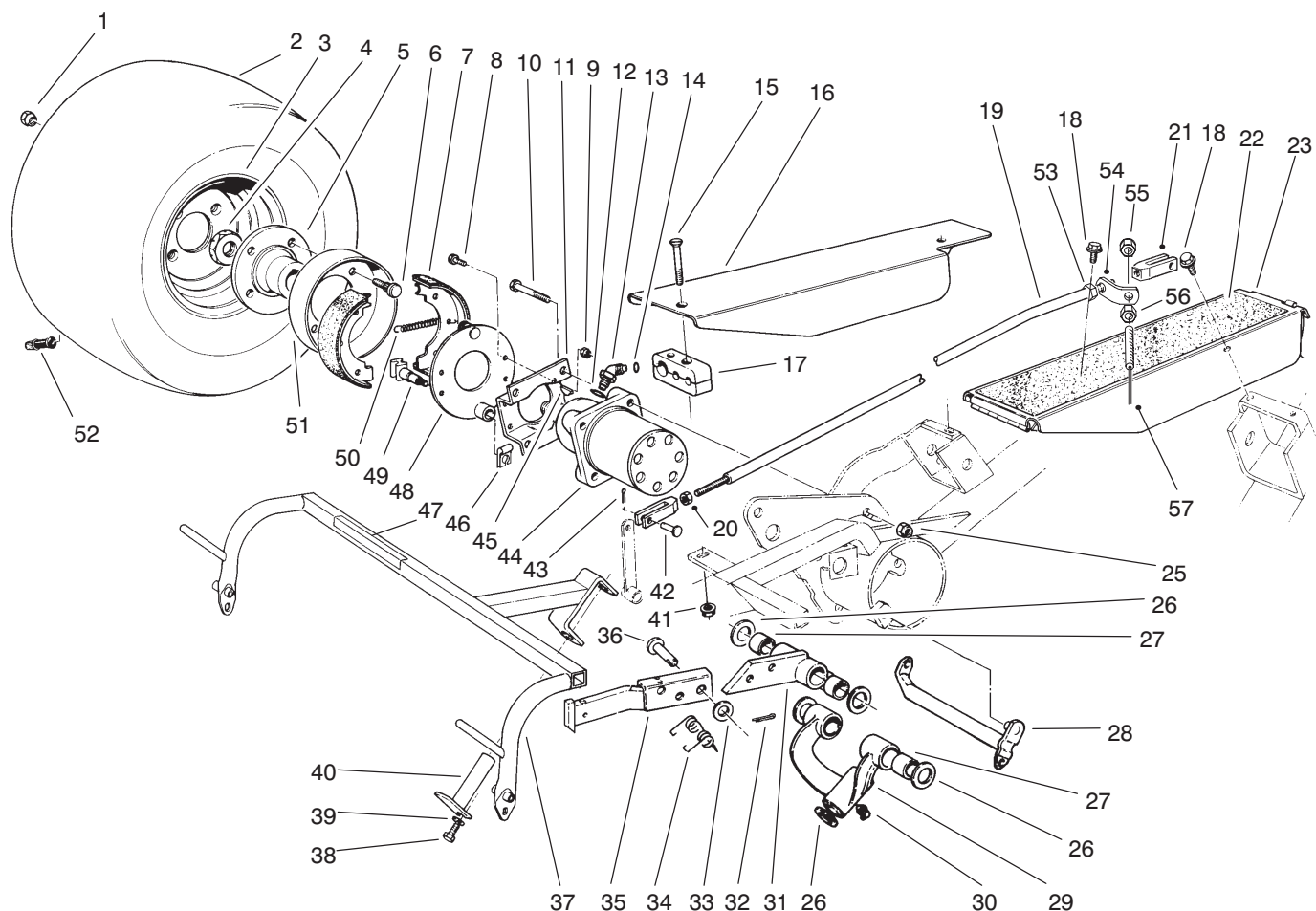
T-1373

**FRONT HYDRAULIC CYLINDER NO. 84—8290**

| Ref. No. | Part No. | Description       | No. Used |
|----------|----------|-------------------|----------|
| 1        | 302-2    | Fitting — Grease  | 2        |
| 2        |          | Barrel Assembly   | 1        |
| 3        | 32152-10 | Nut—Lock          | 1        |
| 4        | 52-1990  | Piston            | 1        |
| 5        |          | Uniring — Grooved | 1        |
| 6        |          | O—Ring            | 1        |
| 7        | 76-1860  | Shaft with Clevis | 1        |
| 8        |          | O—Ring            | 1        |
| 9        |          | Washer — Backup   | 1        |

| Ref. No. | Part No. | Description                                        | No. Used |
|----------|----------|----------------------------------------------------|----------|
| 10       | 65-4860  | Head                                               | 1        |
| 11       | 32120-8  | Ring — Retaining Internal                          | 1        |
| 12       |          | Dust Seal                                          | 1        |
| 13       |          | Seal                                               | 1        |
| 14       | 76-1850  | Clevis                                             | 1        |
| 15       | 3220-6   | Nut — Jam                                          | 1        |
| *        | 86-5390  | Seal Repair Kit<br>(Incl. Ref.#5, 6, 8, 9 & 12-13) | 1        |

\*Not Illustrated



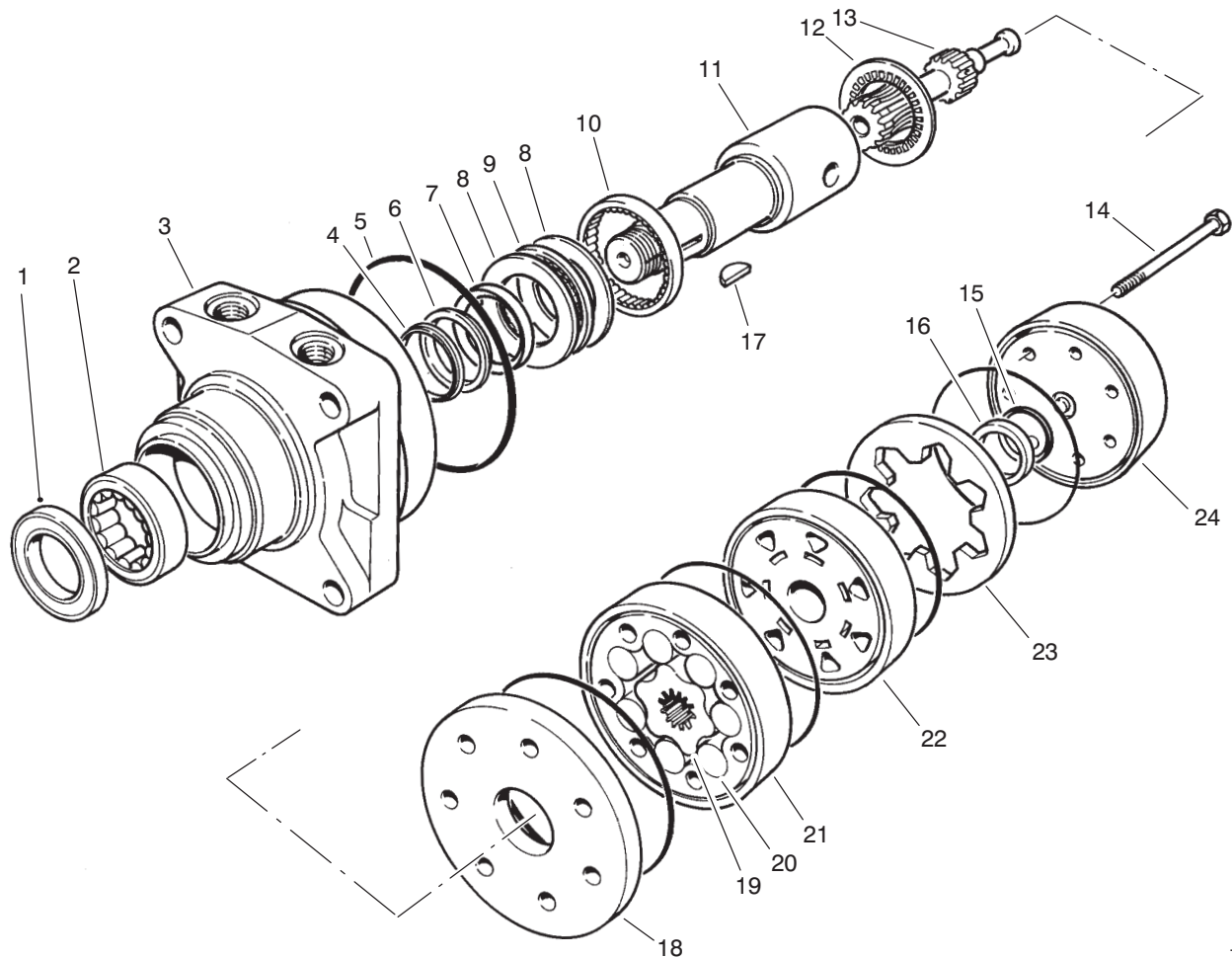
T-0293B

## WHEEL AND BRAKE ASSEMBLY

| Ref. No. | Part No.  | Description                            | No. Used | Ref. No. | Part No. | Description                                    | No. Used |
|----------|-----------|----------------------------------------|----------|----------|----------|------------------------------------------------|----------|
| 1        | 242-50    | Nut - Wheel                            | 8        | 30       | 302-60   | Fitting - Grease                               | 1        |
| 2        | 28-3680   | Tire                                   | 2        | 31       | 62-2440  | Arm - Lift, R.H.                               | 2        |
| *        | 231-124   | Tire - Treaded                         | 2        | 32       | 3272-11  | Pin - Cotter                                   | 2        |
| *        | 62-2580   | Spacer                                 | 2        | 33       | 3256-26  | Washer - Flat                                  | 3        |
| 3        | 217-60    | Rim                                    | 2        | 34       | 57-7650  | Spring - Torsion                               | 2        |
| 4        | 26-3790   | Nut - Lock                             | 2        | 35       | 94-5588  | Bar - Arm Lift, R.H.                           | 1        |
| 5        | 10-6870   | Hub - Wheel                            | 2        | 36       | 63-8750  | Pin - Pivot                                    | 2        |
| 6        | 85-6540   | Stud - Drive Type                      | 8        | 37       | 92-9177  | Frame - Pull, R.H.                             | 1        |
| 7        | 70-9840   | Shoe & Lining Assembly                 | 4        | 38       | 322-1    | Screw - Cap, Hex. Hd.                          | 1        |
| 8        | 321-5     | Screw - Cap, Hex. Hd.                  | 8        | 39       | 3256-23  | Washer - Plain                                 | 1        |
| 9        | 3296-42   | Nut - Lock                             | 8        | 40       | 10-6090  | Pin - Pivot                                    | 1        |
| 10       | 325-11    | Screw - Cap, Hex. Hd.                  | 8        | 41       | 3296-16  | Nut - Lock, Flange                             | 3        |
| 11       | 84-2000   | Bracket - Brake                        | 2        | 42       | 283-62   | Pin - Clevis                                   | 2        |
| 12       | 237-80    | O-Ring                                 | 4        | 43       | 3272-10  | Pin - Cotter                                   | 2        |
| 13       | 340-14    | Fitting<br>(Incl. Ref. #12 & 14)       | 4        | 44       | 75-9990  | Motor - Hydraulic                              | 2        |
| 14       | 237-65    | O-Ring                                 | 4        | 45       | 3257-42  | Key - Woodruff                                 | 2        |
| 15       | 32108-100 | Screw - Mach. Phillips Hd.             | 3        | 46       | 70-9850  | Clip - Retainer                                | 2        |
| 16       | 49-5450   | Plate - Cover                          | 1        | 47       | 62-5070  | Decal - Danger                                 | 1        |
| 17       | 57-6140   | Clamp - Tube Side                      | 4        | 48       | 70-9870  | Plate - Backing, Brake                         | 2        |
| 18       | 3234-4    | Screw - Cap, Hex. Hd.                  | 4        | 49       | 70-9860  | Shaft - Cam                                    | 2        |
| 19       | 49-5430   | Rod - Control                          | 1        | 50       | 70-9880  | Spring                                         | 4        |
| 20       | 3220-2    | Nut                                    | 1        | 51       | 10-6821  | Drum Assy. (Incl. Ref. #5-6)                   | 1        |
| 21       | 282-2     | Yoke                                   | 2        | 52       | 232-24   | Valve Stem w/Cap                               | 2        |
| 22       | 10-8220   | Pad - Tool Box                         | 1        | 53       | 3219-2   | Nut - Full                                     | 1        |
| 23       | 49-5410   | Box - Tool                             | 1        | 54       | 93-9936  | Bracket - Return, Traction                     | 1        |
| 25       | 3296-23   | Nut - Lock                             | 8        | 55       | 3296-29  | Nut - Lock                                     | 1        |
| 26       | 10-8110   | Washer - Thrust                        | 6        | 56       | 3217-6   | Nut - Full                                     | 1        |
| 27       | 3-0348    | Bushing                                | 6        | 57       | 93-9937  | Asm. - Cable, Traction                         | 1        |
| 28       | 71-1510   | Arm - Brake R.H.                       | 1        | *        | 71-1500  | Brake Assembly<br>(Incl. Ref. #7, 46, & 48-50) | 2        |
| 29       | 10-7820   | Hinge - Pivot<br>(Incl. Ref. #27 & 30) | 1        | *†       | 232-37   | Inner Tube - Heavy Duty                        | 2        |

\*Not Illustrated

†Service Replacement Part

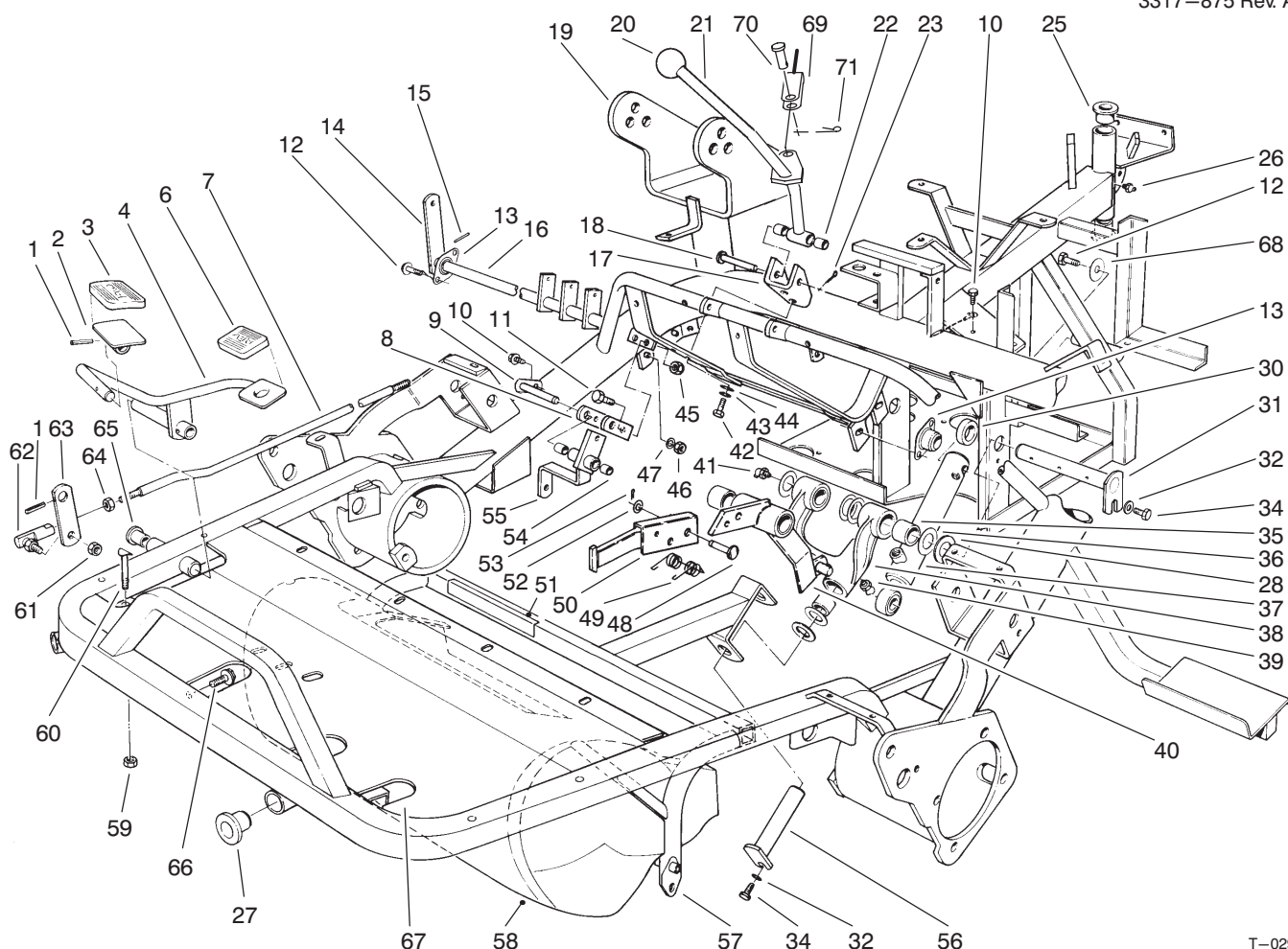


T-0987

# HYDRAULIC DRIVE MOTOR NO. 75—9990

| Ref. No. | Part No. | Description           | No. Used | Ref. No. | Part No. | Description                                      | No. Used |
|----------|----------|-----------------------|----------|----------|----------|--------------------------------------------------|----------|
| 1        |          | Seal — Dirt & Water   | 1        | 17       | 3257—42  | Key — Woodruff                                   | 1        |
| 2        |          | Bearing               | 1        | 18       | 76—0870  | Plate — Wear                                     | 1        |
| 3        |          | Housing               | 1        | 19       |          | Rotor                                            | 1        |
| 4        |          | Washer — Backup       | 1        | 20       |          | Vane                                             | 7        |
| 5        |          | Seal Rings            | 5        | 21       |          | Stator                                           | 1        |
| 6        |          | Washer — Backup       | 1        | 22       | 76—0840  | Manifold                                         | 1        |
| 7        |          | Seal — Inner          | 1        | 23       |          | Ring — Commutator                                | 1        |
| 8        |          | Washer — Thrust       | 2        | 24       | 76—0940  | End Cover Assembly                               | 1        |
| 9        |          | Bearing — Thrust      | 1        | *        | 76—0970  | Rotor Set<br>(Incl. Ref. #19—21)                 | 1        |
| 10       |          | Bearing               | 1        | *        | 76—0880  | Commutator Assembly<br>(Incl. Ref. #15, 16 & 23) | 1        |
| 11       | 76—0860  | Shaft — Coupling      | 1        | *        | 76—0800  | Seal Kit<br>(Incl. Ref. #1, 4—7 & 15)            | 1        |
| 12       | 76—0850  | Bearing — Thrust      | 1        | *        | 76—0810  | Housing Assembly<br>(Incl. Ref. #2, 3 & 8—10)    | 1        |
| 13       | 76—0960  | Link — Drive          | 7        |          |          |                                                  |          |
| 14       | 76—1010  | Screw — Cap, Hex. Hd. | 1        |          |          |                                                  |          |
| 15       |          | Seal — Commutator     | 1        |          |          |                                                  |          |
| 16       |          | Commutator            | 1        |          |          |                                                  |          |

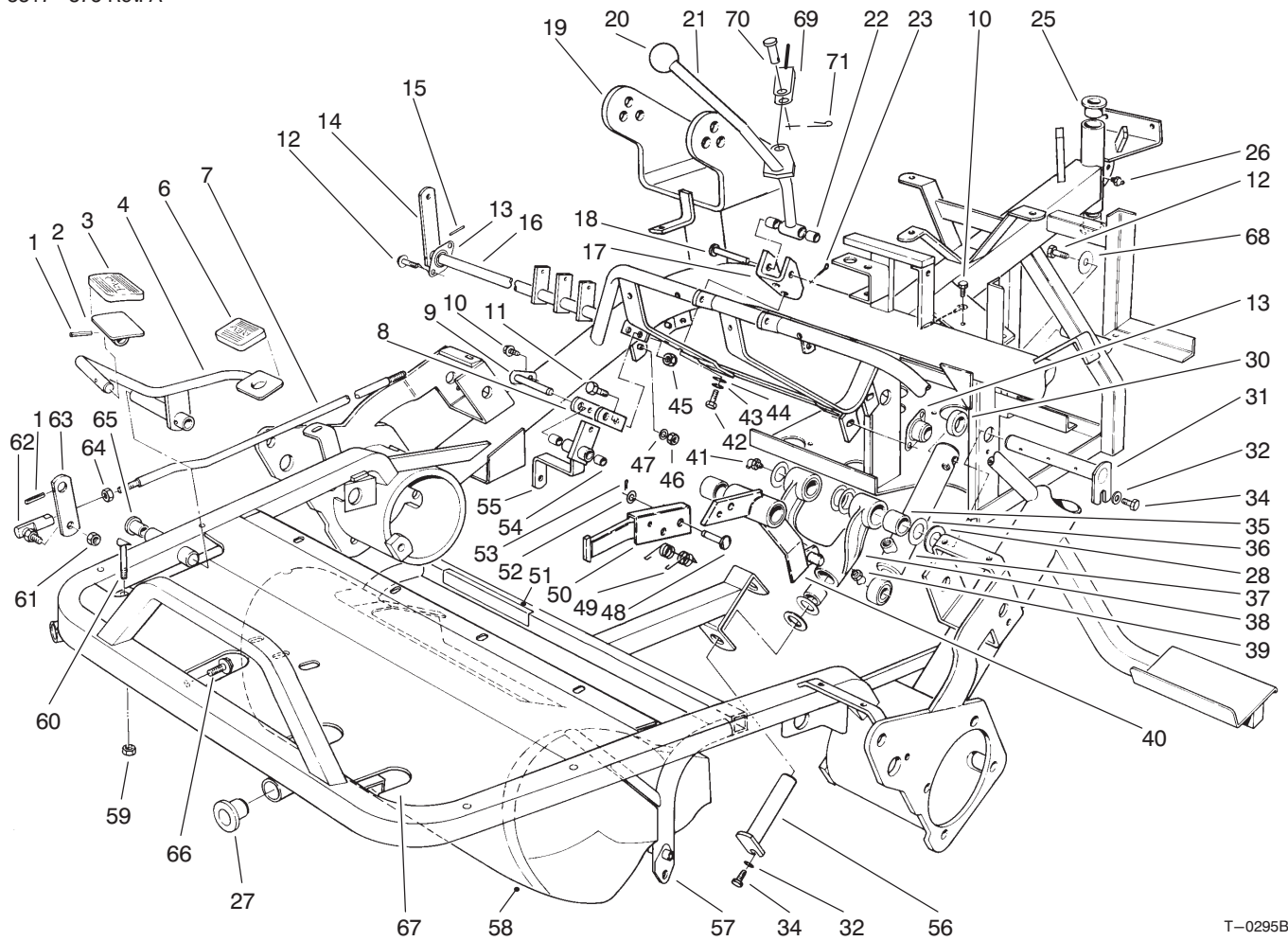
\*Not Illustrated



T-0295B

## FRAME ASSEMBLY

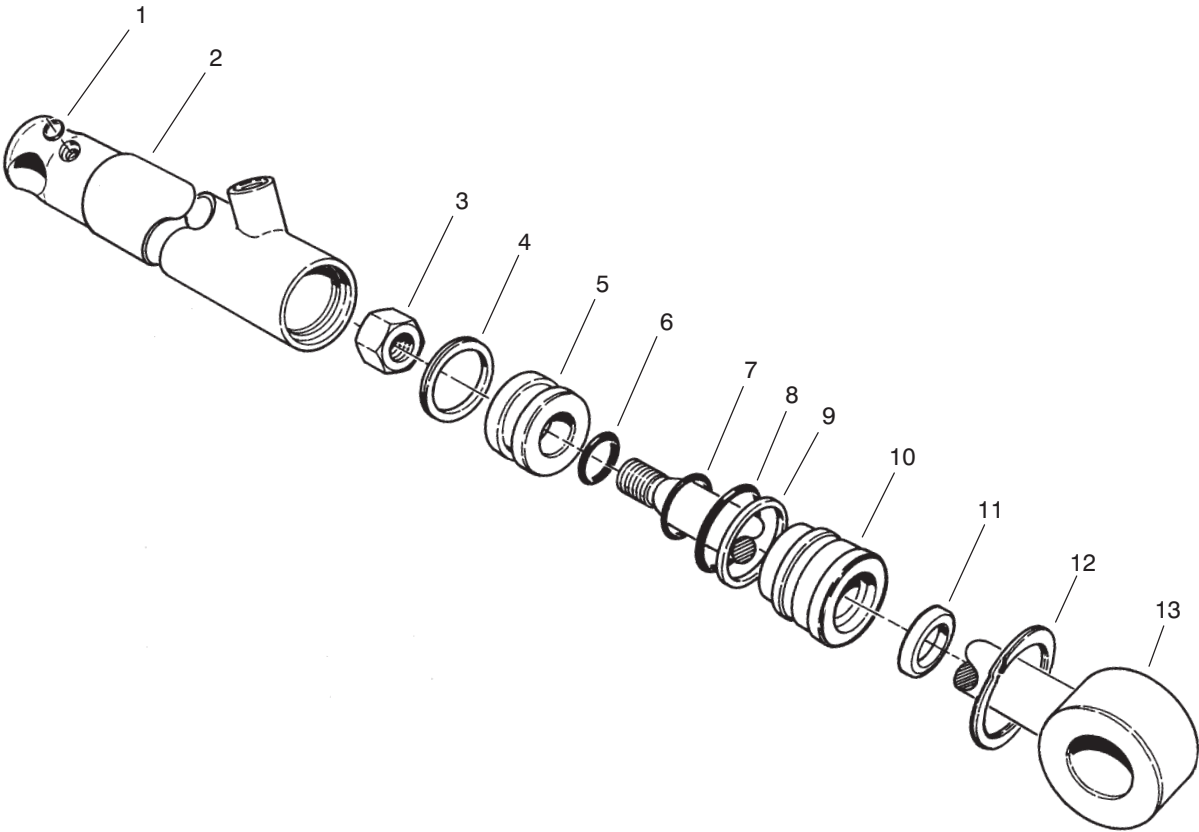
| Ref. No. | Part No. | Description              | No. Used | Ref. No. | Part No. | Description              | No. Used |
|----------|----------|--------------------------|----------|----------|----------|--------------------------|----------|
| 1        | 32121-45 | Pin-Roll                 | 2        | 27       | 83-1700  | Bushing - Flange         | 3        |
| 2        | 49-6440  | Pedal - Accelerator      | 1        | 28       | 5-1226   | Washer                   | A/R      |
| 3        | 49-6470  | Pad - Pedal Forward      | 1        | 30       | 27-2540  | Spacer - Hub             | 1        |
| 4        | 83-0540  | Rod - Accelerator        | 1        | 31       | 27-2550  | Pin - Hinge              | 1        |
| 6        | 49-6430  | Pad - Pedal Reverse      | 1        | 32       | 3256-23  | Washer - Flat            | 2        |
| 7        | 49-6320  | Rod - Traction Control   | 1        | 34       | 322-1    | Screw - Cap, Hex Hd.     | 2        |
| 8        | 49-6250  | Bracket - Traction Pivot | 1        | 35       | 3-0348   | Bushing                  | 6        |
| 9        | 49-6290  | Shaft - Traction Pivot   | 1        | 36       | 10-8110  | Washer-Thrust            | 6        |
| 10       | 12-3270  | Screw - Pentafllo        | 1        | 37       | 83-7000  | Hydraulic Cylinder Assy. | 1        |
| 11       | 322-5    | Screw - Cap, Hex Hd.     | 2        | 38       | 10-7820  | Pivot Hinge              |          |
| 12       | 3234-1   | Screw - Flange, Hex. Hd. | 4        |          |          | (Incl. Ref. #35)         | 1        |
| 13       | 27-2320  | Side Flange - Bearing    | 2        | 39       | 302-60   | Fitting - Grease         | 1        |
| 14       | 47-5320  | Lever - Cutting Control  | 1        | 40       | 88-9670  | Lift Arm - Center        |          |
| 15       | 32121-6  | Pin - Roll               | 1        |          |          | (Incl. Ref. #35)         | 1        |
| 16       | 44-0870  | Camshaft - Rear          | 1        | 41       | 302-11   | Fitting - Grease         | 1        |
| 17       | 49-6220  | Bracket - Control Arm    | 1        | 42       | 3211-1   | Screw - Cap, Hex Hd.     | 2        |
| 18       | 283-57   | Pin - Clevis             | 1        | 43       | 3254-6   | Washer - Lock            | 2        |
| 19       | 92-1192  | Frame                    | 1        | 44       | 3256-24  | Washer - Flat            | 2        |
|          |          | (Incl. Ref. #25 & 65)    | 1        | 45       | 3296-29  | Nut - Lock               | 2        |
| 20       | 233-48   | Knob                     | 1        | 46       | 3296-59  | Nut - Lock               | 4        |
| 21       | 93-9934  | Handle - Traction        | 1        | 47       | 3256-24  | Washer - Flat            | 4        |
|          |          | (Incl. Ref. #22)         | 1        | 48       | 63-8750  | Pin - Pivot              | 1        |
| 22       | 256-251  | Bushing                  | 2        | 49       | 57-7650  | Spring - Torsion         | 1        |
| 23       | 3272-4   | Pin - Cotter             | 1        | 50       | 62-2420  | Bar - Lift Arm (Center)  | 1        |
| 25       | 256-290  | Bushing                  | 2        | 51       | 62-5070  | Decal - Danger           | 1        |
| 26       | 302-5    | Fitting - Grease         | 1        | 52       | 3256-26  | Washer - Flat            | 1        |



T-0295B

## FRAME ASSEMBLY (Continued)

| Ref. No. | Part No. | Description                               | No. Used | Ref. No. | Part No. | Description            | No. Used |
|----------|----------|-------------------------------------------|----------|----------|----------|------------------------|----------|
| 53       | 3272-11  | Pin - Cotter                              | 1        | 62       | 2411-32  | Ball Joint             | 2        |
| 54       | 256-2    | Bushing                                   | 2        | 63       | 92-1194  | Plate - Traction       | 1        |
| 55       | 49-6260  | Tube - Traction Pivot<br>(Incl. Ref. #54) | 1        | 64       | 3220-2   | Nut - Hex. Jam         | 2        |
| 56       | 10-6090  | Pin - Pivot                               | 1        | 65       | 256-219  | Bushing                | 2        |
| 57       | 86-9820  | Pull Frame - Rear                         | 1        | 66       | 32144-14 | Screw - Cap, Hex. Hd.  | 1        |
| 58       | 36-7250  | Grass Basket                              | 3        | 67       | 88-6900  | Plate - Footrest       | 1        |
| 59       | 32128-20 | Nut - Hex                                 | 1        | 68       | 10-7920  | Washer                 | 1        |
| 60       | 77-0480  | Screw - Accelerator Stop                  | 1        | 69       | 93-9937  | Asm. - Cable, Traction | 1        |
| 61       | 3296-4   | Nut - Lock                                | 2        | 70       | 283-62   | Pin - Clevis           | 1        |
|          |          |                                           |          | 71       | 3272-10  | Pin - Cotter           | 1        |

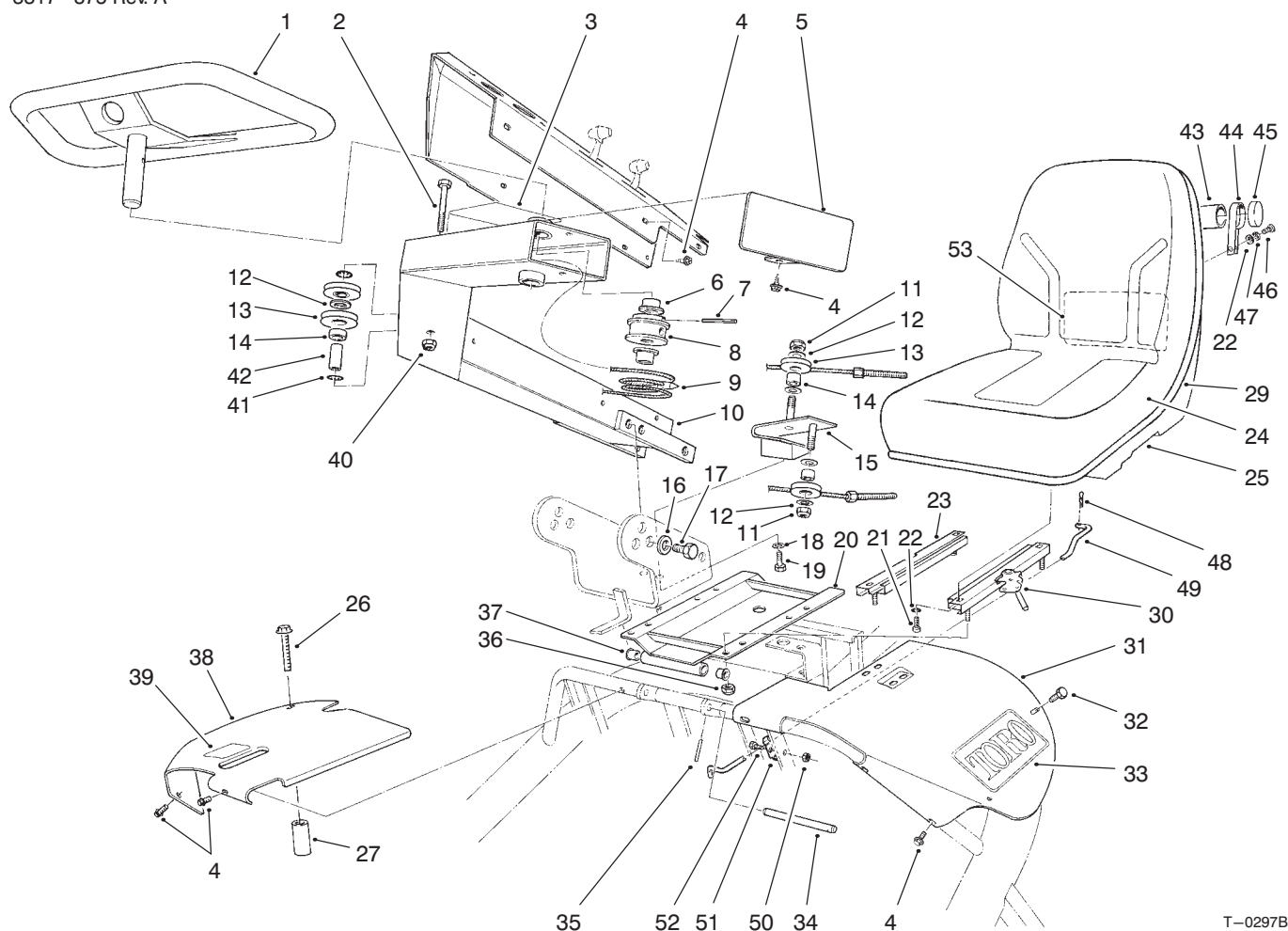


T-0217

**REAR HYDRAULIC CYLINDER NO. 83-7000**

| Ref. No. | Part No. | Description             | No. Used | Ref. No. | Part No. | Description               | No. Used |
|----------|----------|-------------------------|----------|----------|----------|---------------------------|----------|
| 1        | 237-78   | O-Ring                  | 2        | 9        |          | Back-Up                   | 1        |
| 2        | 43-5260  | Barrel w/Clevis & Ports | 1        | 10       | 70-2770  | Head                      | 1        |
| 3        | 32152-10 | Nut                     | 1        | 11       |          | Seal - Dust               | 1        |
| 4        |          | Uniring - Grooved       | 1        | 12       | 43-5220  | Ring - Retaining          | 1        |
| 5        | 70-2780  | Piston                  | 1        | 13       | 43-5230  | Shaft with Clevis         | 1        |
| 6        |          | O-Ring                  | 1        | *        | 86-5360  | Seal Repair Kit           | 1        |
| 7        |          | PDF Ultrathan           | 1        |          |          | (Incl. Ref. #4, 6-9 & 11) |          |
| 8        |          | O-Ring                  | 1        |          |          |                           |          |

\*Not Illustrated



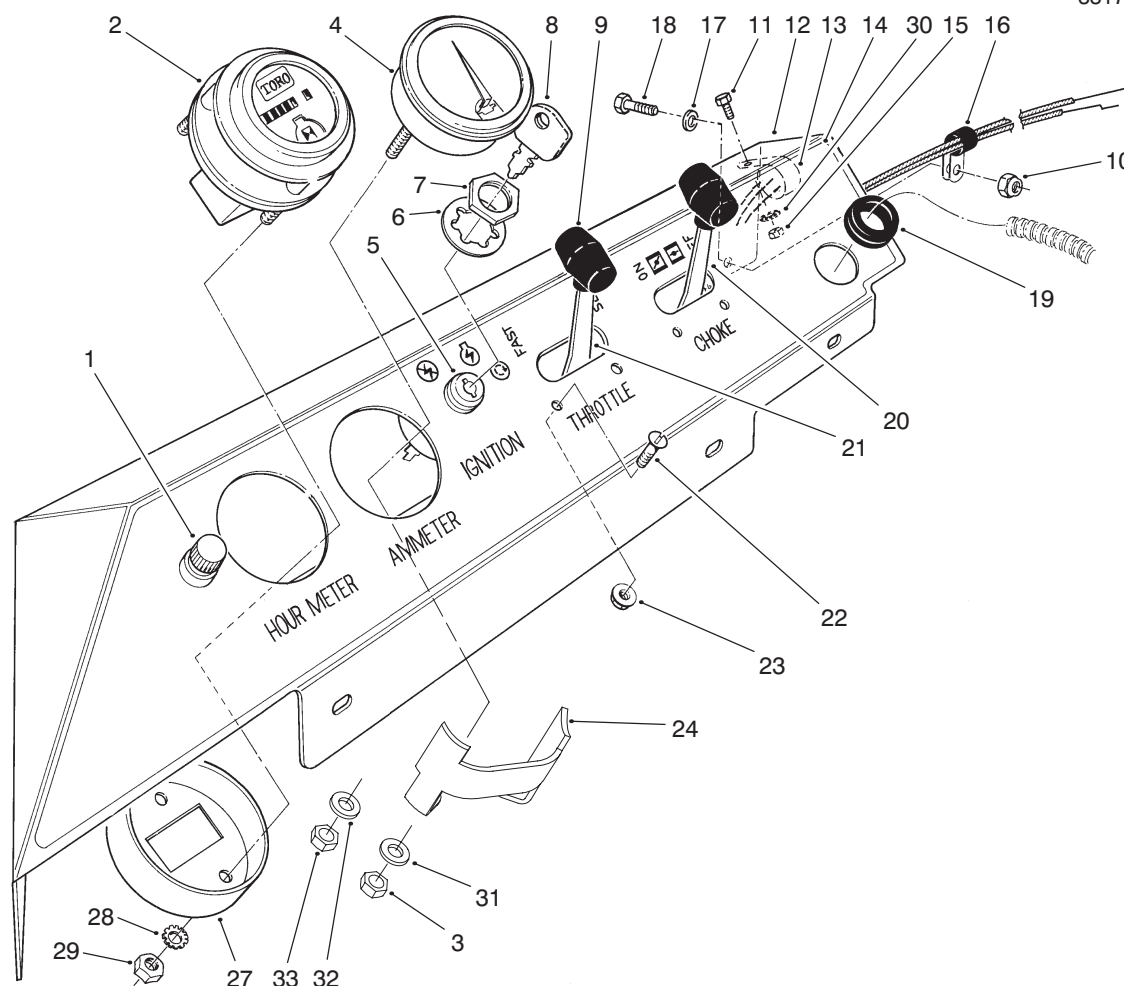
T-0297B

## STEERING AND SEAT ASSEMBLY

| Ref. No. | Part No. | Description                         | No. Used |
|----------|----------|-------------------------------------|----------|
| 1        | 49-5900  | Steering Wheel Assembly             | 1        |
| 2        | 321-18   | Screw- Cap, Hex Hd.                 | 1        |
| 3        | 75-9380  | Decal - Caution                     | 1        |
| 4        | 32104-76 | Screw - Tapping, Acorn Hd.          | 15       |
| 5        | 10-7370  | Tube Cap                            | 1        |
| 6        | 256-113  | Bushing                             | 2        |
| 7        | 32121-34 | Pin - Roll                          | 1        |
| 8        | 62-2160  | Pulley - Front Steering             | 1        |
| 9        | 62-2180  | Steering Cable                      | 1        |
| 10       | 49-5910  | Arm Steering                        | 1        |
| 11       | 3296-39  | Nut - Lock                          | 2        |
| 12       | 3256-4   | Washer - Flat                       | 4        |
| 13       | 5-2653   | Pulley Assembly<br>(Incl. Ref. #14) | 4        |
| 14       | 256-2    | Bushing                             | 4        |
| 15       | 49-5970  | Bracket - Pulley                    | 1        |
| 16       | 3256-26  | Washer - Flat                       | 4        |
| 17       | 325-3    | Screw- Cap, Hex Hd.                 | 4        |
| 18       | 3253-21  | Washer - Lock                       | 2        |
| 19       | 323-6    | Screw- Cap, Hex Hd.                 | 2        |
| 20       | 49-5840  | Seat Support<br>(Incl. Ref. #37)    | 1        |
| 21       | 3274-12  | Screw - Hex Socket Hd.              | 4        |
| 22       | 3256-23  | Washer - Flat                       | 6        |
| 23       | 51-0780  | Seat Slider                         | 1        |
| 24       | 92-6533  | Kit - Cushion                       | 1        |
| 25       | 92-6534  | Shell                               | 1        |
| 26       | 94-2691  | Screw - HWH                         | 1        |

| Ref. No. | Part No. | Description                              | No. Used |
|----------|----------|------------------------------------------|----------|
| 27       | 76-2660  | Tube - Spacer                            | 1        |
| 29       | 351-78   | Edging                                   | 2        |
| *        | 92-1180  | Seat Assembly<br>(Incl. Ref. 24-25 & 29) | 1        |
| 30       | 51-0790  | Seat Adjuster                            | 1        |
| 31       | 49-5460  | Shield - Valve Cover L.H.                | 1        |
| 32       | 12-3270  | Screw - Thread Forming                   | 1        |
| 33       | 62-5550  | Decal - Toro                             | 2        |
| 34       | 49-5880  | Shaft - Seat Support                     | 1        |
| 35       | 32121-45 | Pin-Roll                                 | 1        |
| 36       | 3296-29  | Nut - Lock                               | 4        |
| 37       | 256-155  | Bushing                                  | 2        |
| 38       | 49-5470  | Shield - Valve Cover R.H.                | 1        |
| 39       | 51-0010  | Decal - Traction                         | 1        |
| 40       | 3296-16  | Nut - Lock                               | 1        |
| 41       | 3290-314 | Tinnerman Push-On                        | 2        |
| 42       | 10-7240  | Sleeve - Steering Pulley                 | 1        |
| 43       | 65-5871  | Tube                                     | 1        |
| 44       | 2412-102 | R-Clamp                                  | 2        |
| 45       | 65-5890  | Cap                                      | 2        |
| 46       | 322-3    | Screw - Cap, Hex. Hd.                    | 2        |
| 47       | 3253-4   | Washer - Lock                            | 2        |
| 48       | 3272-11  | Pin - Cotter                             | 1        |
| 49       | 68-5100  | Rod - Seat                               | 1        |
| 50       | 3296-16  | Nut - Lock                               | 1        |
| 51       | 68-5310  | Clip Seat                                | 1        |
| 52       | 321-3    | Screw - Cap, Hex. Hd.                    | 1        |
| 53       | 92-1195  | Decal - Service                          | 1        |

\*Not Illustrated



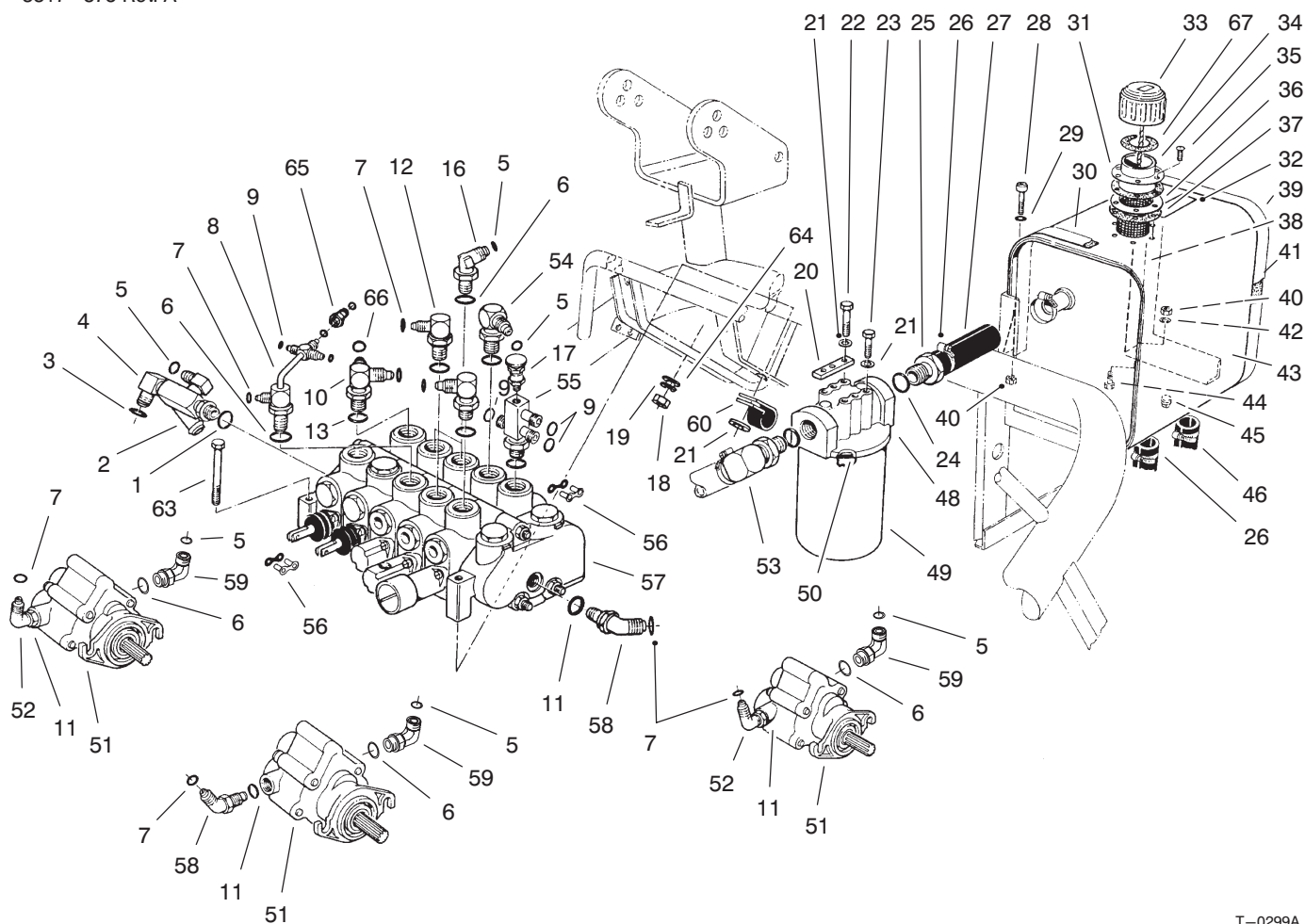
T-0298-1

## INSTRUMENT PANEL ASSEMBLY

| Ref. No. | Part No. | Description                                     | No. Used | Ref. No. | Part No. | Description                           | No. Used |
|----------|----------|-------------------------------------------------|----------|----------|----------|---------------------------------------|----------|
| 1        | 218-489  | Fuse Holder                                     | 1        | 16       | 2412-41  | Clip                                  | 1        |
| *†       |          | 30 Amp Fuse                                     | 1        | 17       | 3253-23  | Washer - Flat                         | 1        |
| 2        | 66-2950  | Hour Meter Assembly<br>(Incl. Ref. #27-29)      | 1        | 18       | 322-4    | Screw - Cap, Hex. Hd.                 | 1        |
| 3        | 3217-27  | Nut                                             | 2        | 19       | 237-100  | Grommet                               | 1        |
| 4        | 83-0820  | Ammeter Assembly<br>(Incl. Ref. #3, 24 & 31-33) | 1        | 20       | 62-2130  | Control - Choke<br>(Incl. Ref. #9)    | 1        |
| 5        | 23-0660  | Key Switch<br>(Incl. Ref. #6-7)                 | 1        | 21       | 68-9930  | Control - Throttle<br>(Incl. Ref. #9) | 1        |
| 6        | 3254-5   | Washer - Lock                                   | 1        | 22       | 32105-8  | Screw - Machine, Rd. Hd.              | 4        |
| 7        | 218-461  | Nut - Hex                                       | 1        | 23       | 32149-7  | Nut - Lock                            | 1        |
| 8        | 63-8360  | Key                                             | 1        | 24       | 94-6960  | Clamp - Ammeter                       | 1        |
| 9        | 233-50   | Knob                                            | 2        | 27       |          | Clamp - Hour Meter                    | 1        |
| 10       | 32128-20 | Nut - Lock                                      | 1        | 28       | 3255-20  | Washer - Lock ETLW                    | 2        |
| 11       | 321-3    | Screw - Cap, Hex. Hd.                           | 1        | 29       | 3217-25  | Nut                                   | 2        |
| 12       | 68-9910  | Panel - Control                                 | 1        | 30       | 3255-7   | Washer - Lock, Int. Tooth             | 1        |
| 13       | 59-9810  | Module                                          | 1        | 31       | 3254-10  | Washer - Lock, Ext. Tooth             | 2        |
| 14       | 68-9940  | Decal - Control Panel                           | 1        | 32       | 3255-24  | Washer - Lock, Int. Tooth             | 3        |
| 15       | 32149-2  | Nut - Lock, Keps                                | 1        | 33       | 3217-16  | Nut - Hex.                            | 3        |

\*Not Illustrated

†Obtain Locally

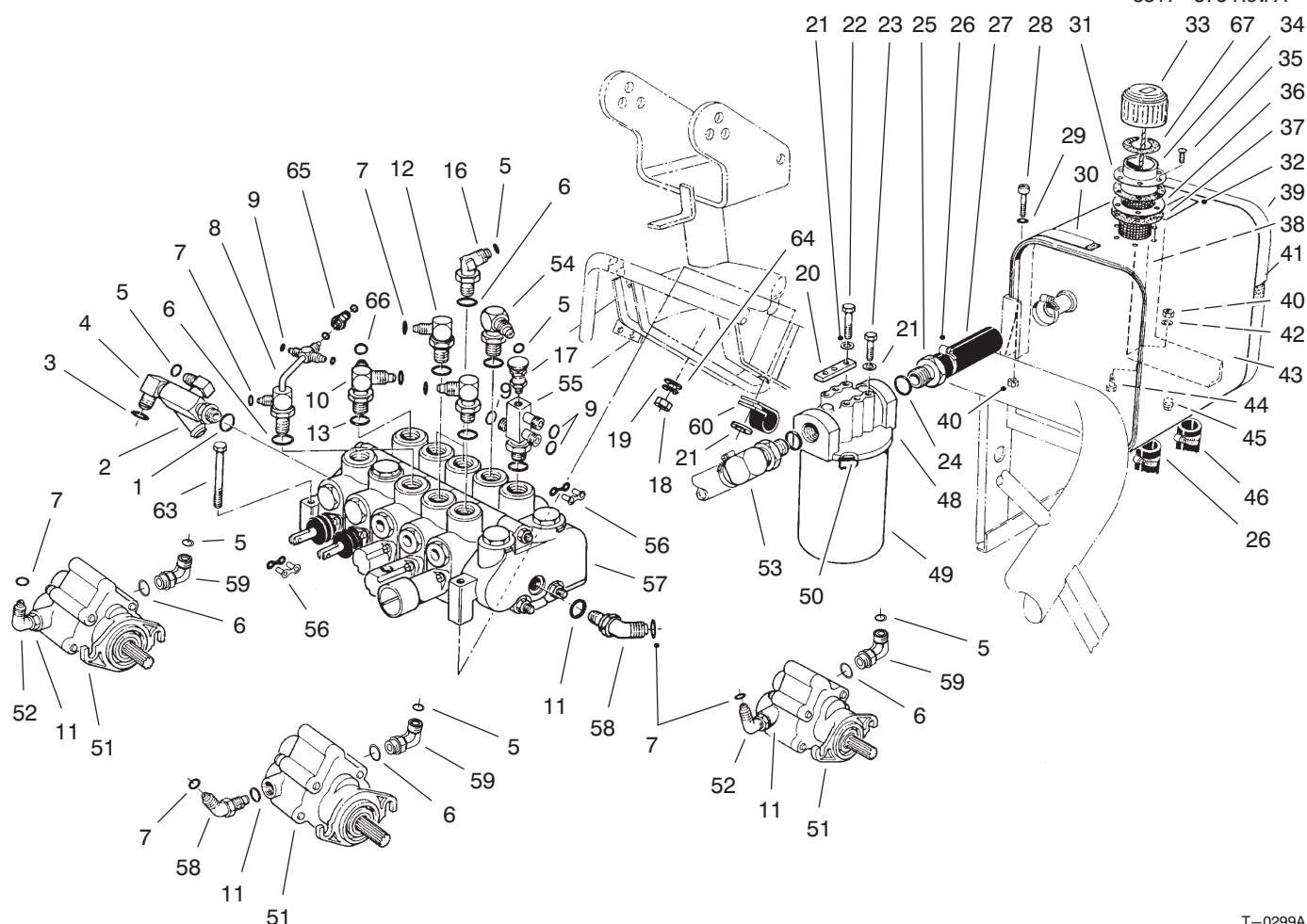


T-0299A

## VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY

| Ref. No. | Part No. | Description             | No. Used |
|----------|----------|-------------------------|----------|
| 1        | 237-81   | O-Ring                  | 1        |
| 2        | 63-4080  | Manifold Drain Orifice  | 1        |
| 3        | 237-58   | O-Ring                  | A/R      |
| 4        | 340-16   | 90° Fitting             | 1        |
| 5        | 237-30   | O-Ring                  | A/R      |
| 6        | 237-79   | O-Ring                  | 8        |
| 7        | 237-22   | O-Ring                  | A/R      |
| 8        | 63-4060  | Brazed Tube Assembly    | 1        |
| 9        | 237-21   | O-Ring                  | 7        |
| 10       | 63-4050  | Fitting Traction Upper  | 2        |
| 11       | 237-42   | O-Ring                  | A/R      |
| 12       | 340-18   | 90° Elbow               | 1        |
| 13       | 237-80   | O-Ring                  | 2        |
| 16       | 340-101  | 45° Fitting             | 2        |
| 17       | 93-2554  | Bushing - Needle        | 1        |
| 18       | 32128-20 | Nut - Hex               | 3        |
| 19       | 3253-4   | Washer - Lock           | 3        |
| 20       | 27-2380  | Spacer - Filler Mount   | 1        |
| 21       | 3256-23  | Washer - Flat           | 5        |
| 22       | 322-4    | Screw - Cap, Hex Hd.    | 2        |
| 23       | 322-2    | Screw - Cap, Hex Hd.    | 2        |
| 24       | 237-101  | O-Ring                  | 1        |
| 25       | 353-563  | Fitting - Straight      | 1        |
| 26       | 2412-3   | Clamp - Hose            | 8        |
| 27       | 27-2040  | Hose                    | 1        |
| 28       | 3274-54  | Screw - Set, Socket Hd. | 2        |

| Ref. No. | Part No. | Description                                     | No. Used |
|----------|----------|-------------------------------------------------|----------|
| 29       | 3256-22  | Washer - Flat                                   | 2        |
| 30       | 27-7980  | Front Reservoir Strap Assy.<br>(Incl. Ref. #41) | 1        |
| 31       | 353-961  | Flange Adaptor                                  | 1        |
| 32       | 58-6530  | Decal - Oil                                     | 1        |
| 33       | 62-2570  | Breather Cap<br>(Incl. Ref. #31, 34 &<br>36-37) | 1        |
| 34       | 353-962  | Cap and Chain Assembly                          | 1        |
| 35       | 32144-34 | Screw                                           | 6        |
| 36       | 62-2610  | Screen Assembly                                 | 1        |
| 37       | 353-963  | Gasket                                          | 2        |
| 38       | 27-2420  | Felt Strap - Angle                              | 2        |
| 39       | 27-2400  | Reservoir Strap Assembly<br>(Incl. Ref. #41)    | 1        |
| 40       | 3296-16  | Nut - Hex                                       | 4        |
| 41       | 27-2420  | Felt Strip                                      | 2        |
| 42       | 3253-3   | Washer - Lock                                   | 2        |
| 43       | 55-8480  | Tank - Hydraulic                                | 1        |
| 44       | 321-3    | Screw - Cap, Hex Hd.                            | 2        |
| 45       | 281-1    | Plug - Oil                                      | 1        |
| 46       | 27-3040  | Hose - Pump                                     | 2        |
| 48       | 44-5560  | Filter Head - Hydraulic                         | 1        |
| 49       | 74-3570  | Filter Element<br>(Incl. Ref. #50)              | 1        |
| 50       | 72-3850  | Seal - Ring                                     | 1        |



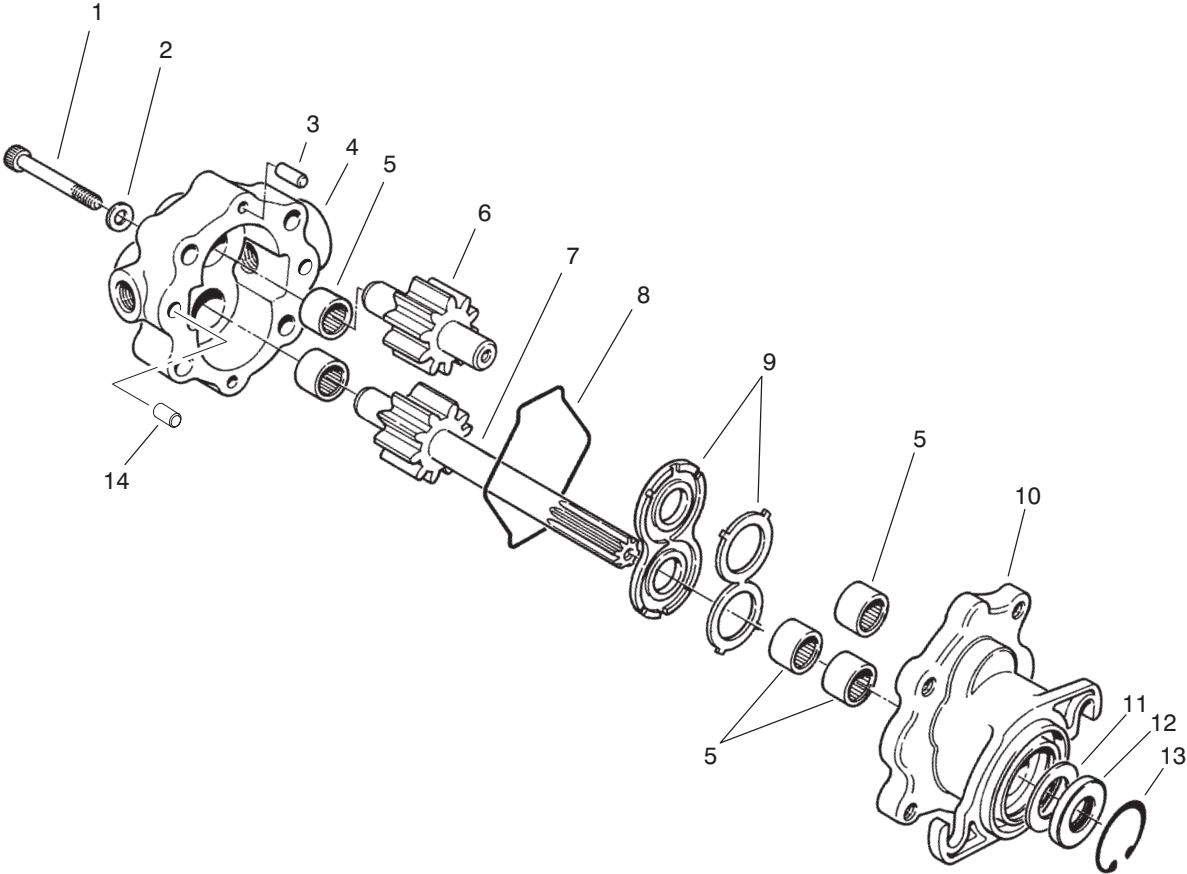
T-0299A

## VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

| Ref. No. | Part No. | Description                                       | No. Used |
|----------|----------|---------------------------------------------------|----------|
| 51       | 94-3506  | Reel Motor                                        | 3        |
| 52       | 340-77   | 90° Elbow                                         | 3        |
| 53       | 353-564  | 90° Fitting                                       | 1        |
| 54       | 63-4090  | 90° Fitting - Extended                            | 1        |
| 55       | 93-2555  | Fitting - Hydraulic Valve<br>(Incl. Ref. #9 & 11) | 1        |
| 56       | 57-6220  | Link Connector                                    | 5        |
| 57       | 84-2203  | Control Valve                                     | 1        |
| 58       | 340-87   | 45° Fitting                                       | 2        |
| 59       | 340-98   | 90° Elbow                                         | 3        |

| Ref. No. | Part No. | Description                                           | No. Used |
|----------|----------|-------------------------------------------------------|----------|
| 60       | 304-61   | Clamp                                                 | 1        |
| 63       | 322-14   | Screw - Cap, Hex Hd.                                  | 3        |
| 64       | 3254-2   | Washer - Lock, Int. Tooth                             | 1        |
| 65       | 71-0990  | Fitting - One Way Orifice                             | 1        |
| 66       | 237-65   | O-Ring                                                | 4        |
| 67       | 76-1720  | Gasket - Filler Cap                                   | 1        |
| *        | 93-2556  | Needle Valve Assembly<br>(Incl. Ref. #9, 11, 17 & 55) | 1        |
| *        | 44-2500  | Hydraulic Oil Dye                                     | 1        |

\*Not Illustrated



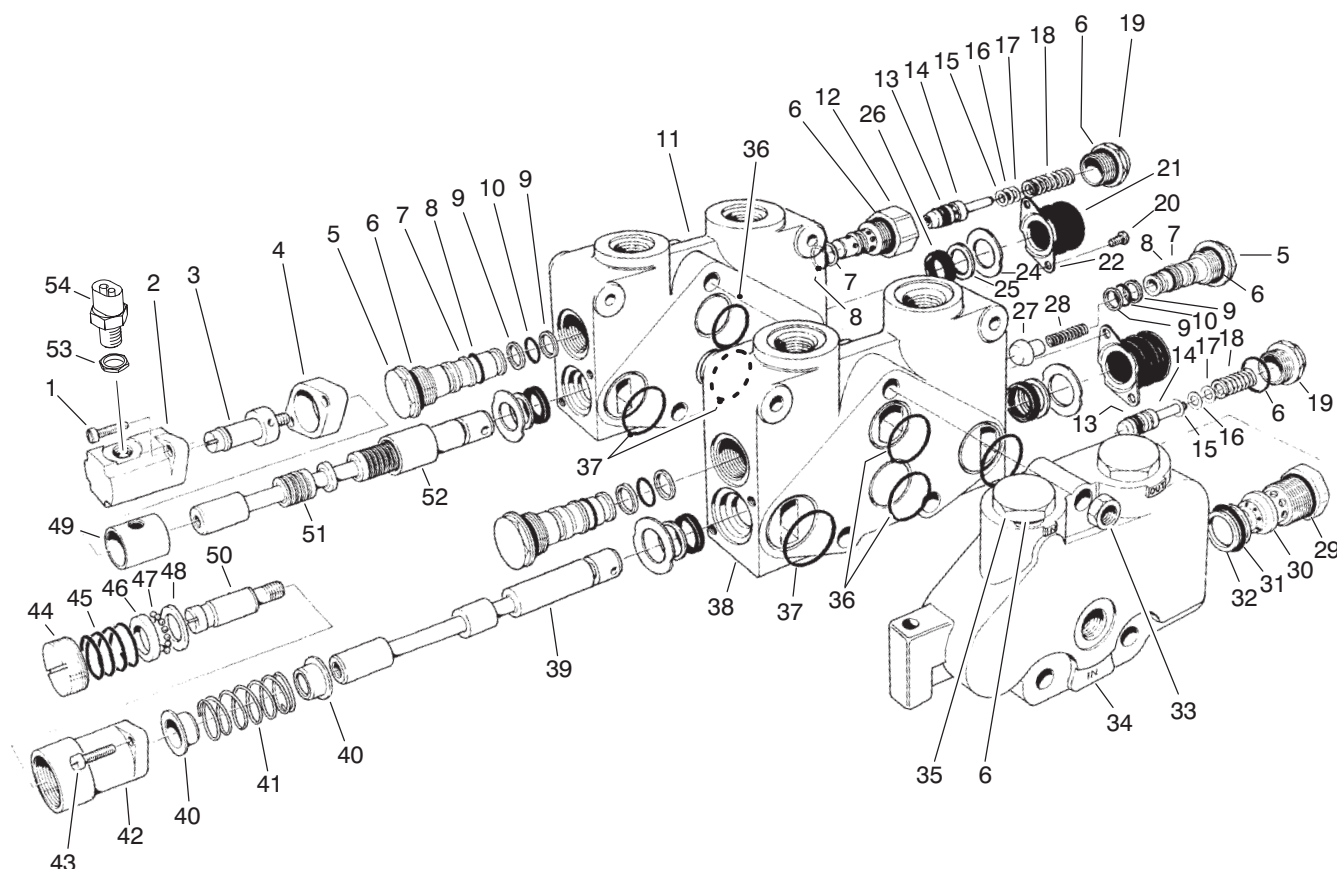
T-1872

REEL MOTOR NO. 94—3506

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

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

\*Not Illustrated  
†Not Serviced Separately

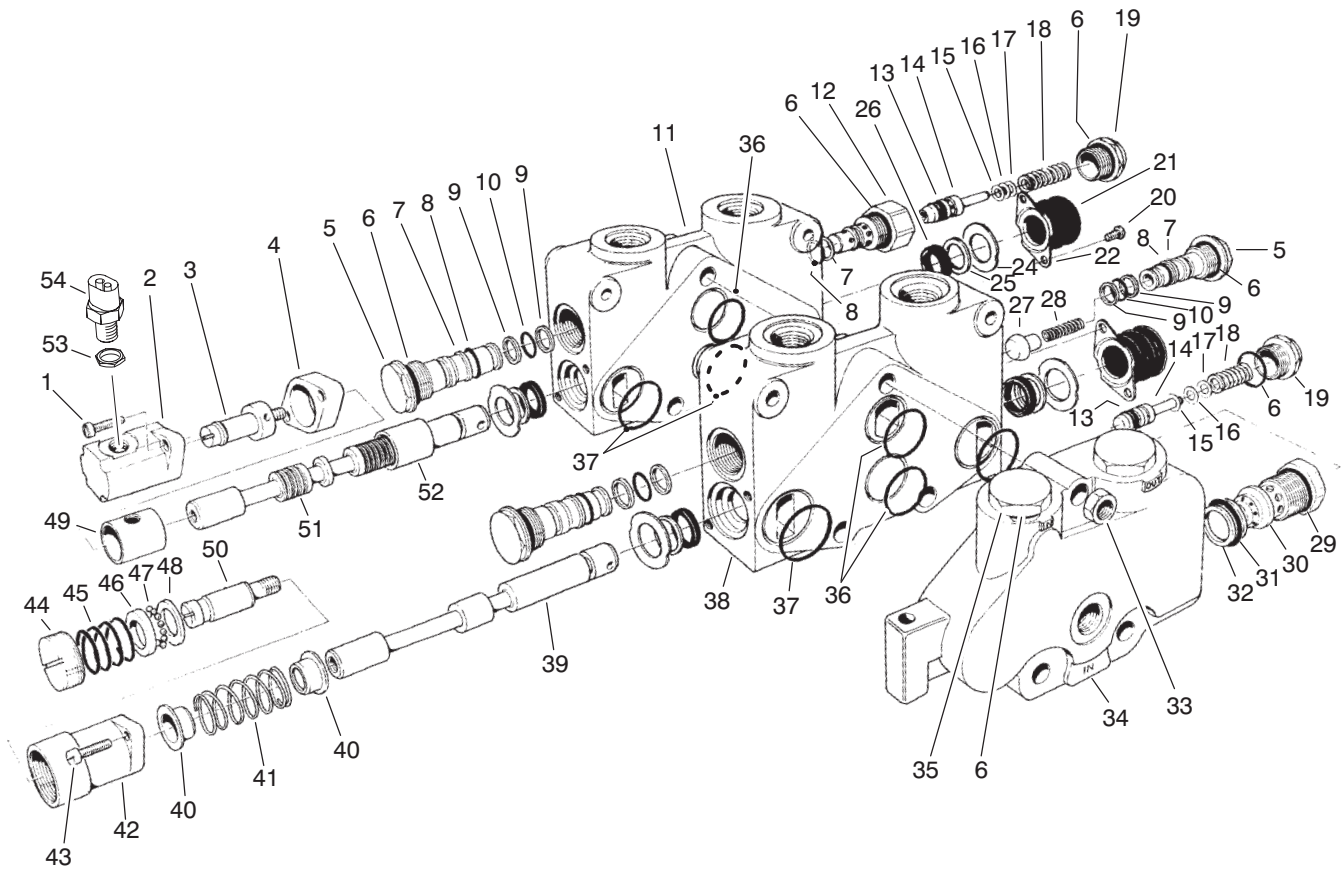


T-1318A

## CONTROL VALVE ASSY. NO. 84-2203 (Sections 1 & 2)

| Ref. No. | Part No. | Description                             | No. Used | Ref. No. | Part No. | Description                           | No. Used |
|----------|----------|-----------------------------------------|----------|----------|----------|---------------------------------------|----------|
| 1        | 3274-70  | Screw — Hex, Socket Hd.                 | 2        | 27       | 353-301  | Poppet                                | 1        |
| 2        | 353-727  | Bonnet                                  | 1        | 28       | 353-304  | Spring                                | 1        |
| 3        | 353-729  | Spud — Detent                           | 1        | 29       | 353-331  | O-Ring                                | 1        |
| 4        | 353-733  | Spacer — Bonnet                         | 1        | 30       | 353-760  | Body Relief                           | 1        |
| 5        | 353-481  | Plug — Load Check<br>(Incl. Ref. #6-10) | 3        | 31       | 353-758  | Seal — O-Ring                         | 1        |
| 6        | 237-54   | O-Ring                                  | 8        | 32       | 353-952  | Ring — Backup                         | 1        |
| 7        | 353-306  | Ring — Backup                           | 4        | 33       | 3217-7   | Nut — Hex                             | 3        |
| 8        | 353-305  | O-Ring                                  | 4        | 34       | 353-772  | Left End Cover                        | 1        |
| 9        | 353-303  | Ring — Backup                           | 6        | 35       | 353-721  | Plug<br>(Incl. Ref. #6)               | 2        |
| 10       | 353-302  | O-Ring                                  | 3        | †36      |          | O-Ring                                | 3        |
| 11       |          | Housing V20T                            | 1        | †37      |          | O-Ring                                | 4        |
| 12       | 353-851  | Body — Relief CP-RC Mod.                | 1        | †38      |          | Housing Section #1                    | 1        |
| 13       | 353-392  | Seal — Relief Poppet PTFE               | 2        | †39      |          | Spool V20 SPL                         | 1        |
| 14       | 353-531  | Poppet Assy.<br>(Incl. Ref. #13)        | 2        | 40       | 353-417  | Collar Spring                         | 2        |
| 15       | 353-328  | Washer — Shim                           | A/R      | 41       | 92-3048  | Spring — Centering                    | 1        |
| 16       | 353-329  | Washer — Shim                           | A/R      | 42       | 353-754  | Bonnet — R. Detent                    | 1        |
| 17       | 353-330  | Washer — Shim                           | A/R      | 43       | 3274-15  | Screw — Fillister Hd.                 | 2        |
| 18       | 353-855  | Spring                                  | 2        | 44       | 353-763  | Cap — Adjustment                      | 1        |
| 19       | 353-334  | Cap — Relief                            | 2        | 45       | 353-579  | Spring                                | 1        |
| 20       | 3274-52  | Screw — Hex, Socket Hd.                 | 4        | 46       | 42-2680  | Race R. Detent                        | 1        |
| 21       | 353-575  | Boot — Dust Cap                         | 2        | 47       | 52-5880  | Ball — Steel                          | 12       |
| 22       | 93-3651  | Retainer — Boot                         | 2        | 48       | 354-29   | Plate — Thrust                        | 1        |
| 24       | 92-2547  | Plate — Seal Retainer                   | 4        | 49       | 353-728  | Sleeve                                | 1        |
| 25       | 92-2546  | Wiper — Seal                            | 4        | 50       | 353-762  | Spud — Detent Out<br>(Incl. Ref. #44) | 1        |
| 26       | 353-957  | Seal — Lip                              | 4        | †51      |          | Spool V20 3 Way F.F.                  | 1        |

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



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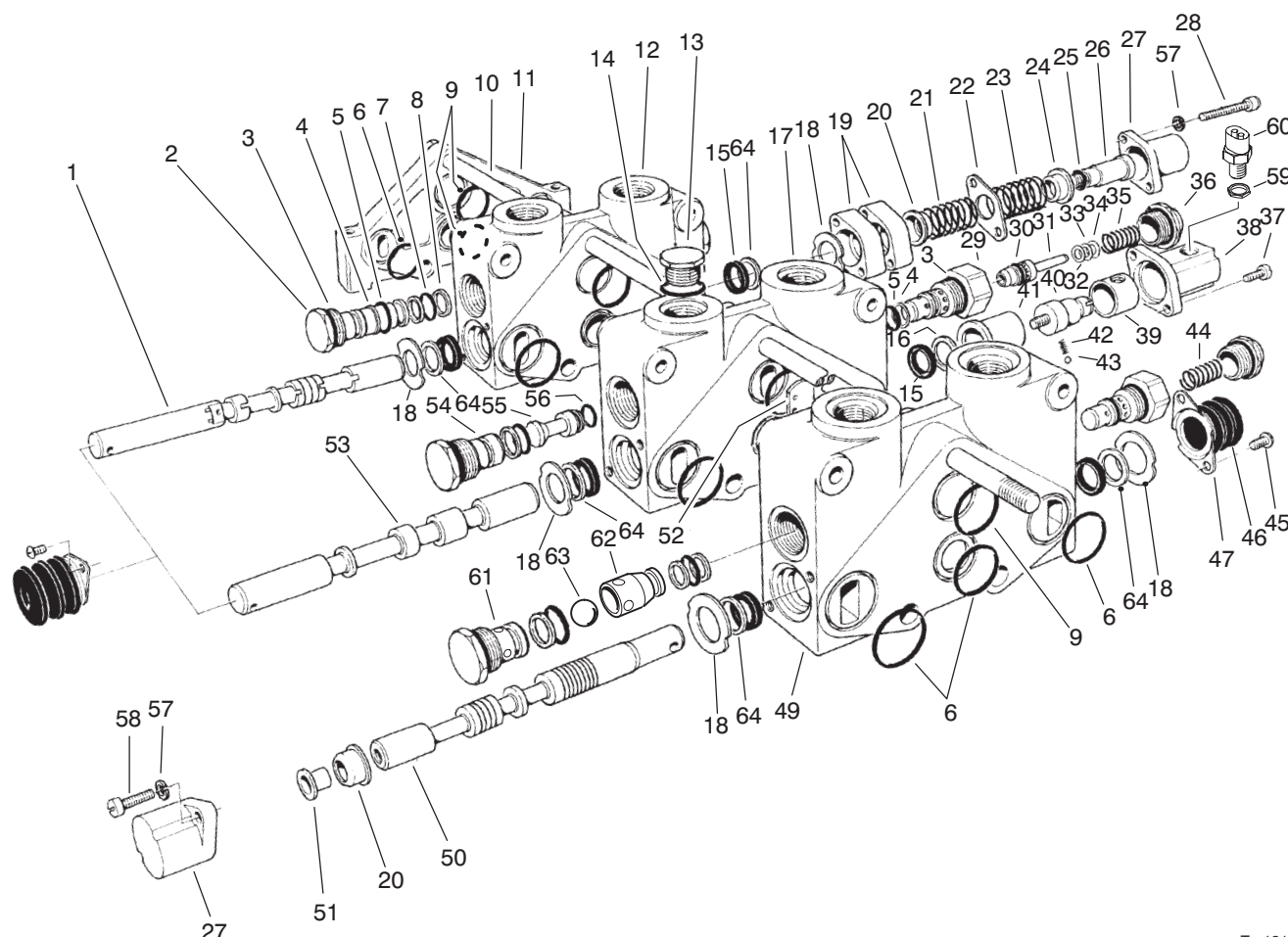
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 1 And 2) (Continued)

| Ref. No. | Part No. | Description                                                   | No. Used |
|----------|----------|---------------------------------------------------------------|----------|
| 52       | 353-732  | Sleeve — Detent                                               | 1        |
| 53       | 38-0410  | Nut — Hex.                                                    | 1        |
| 54       | 83-1890  | Switch — Ball                                                 | 1        |
| *        | 353-766  | Relief WH (2000) PSI Assy.<br>(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)<br>(Incl. Ref. #3 & 40-49)       | 1        |
| *        | 353-839  | Positioner — DI (SPL) Assy.<br>(Incl. Ref. #1, 3-5, 50 & 52)  | 1        |

| Ref. No. | Part No. | Description                                   | No. Used |
|----------|----------|-----------------------------------------------|----------|
| *        | 353-642  | Relief — RC Mod.<br>(Incl. Ref. #6-8 & 12-19) | 2        |
| *        | 92-2545  | Seals — Spool<br>(Entire Valve Set)           | 1        |
| *        | 353-835  | Seals — Section Set<br>(Incl. Ref. #36 & 37)  | 1        |
| *        | 92-2548  | Seal — Spool Single<br>(Incl. Ref. #24-26)    | 1        |
| *        | 93-3652  | Boot — Spool Assembly<br>(Incl. Ref. #20-22)  | 2        |

\*Not Illustrated

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

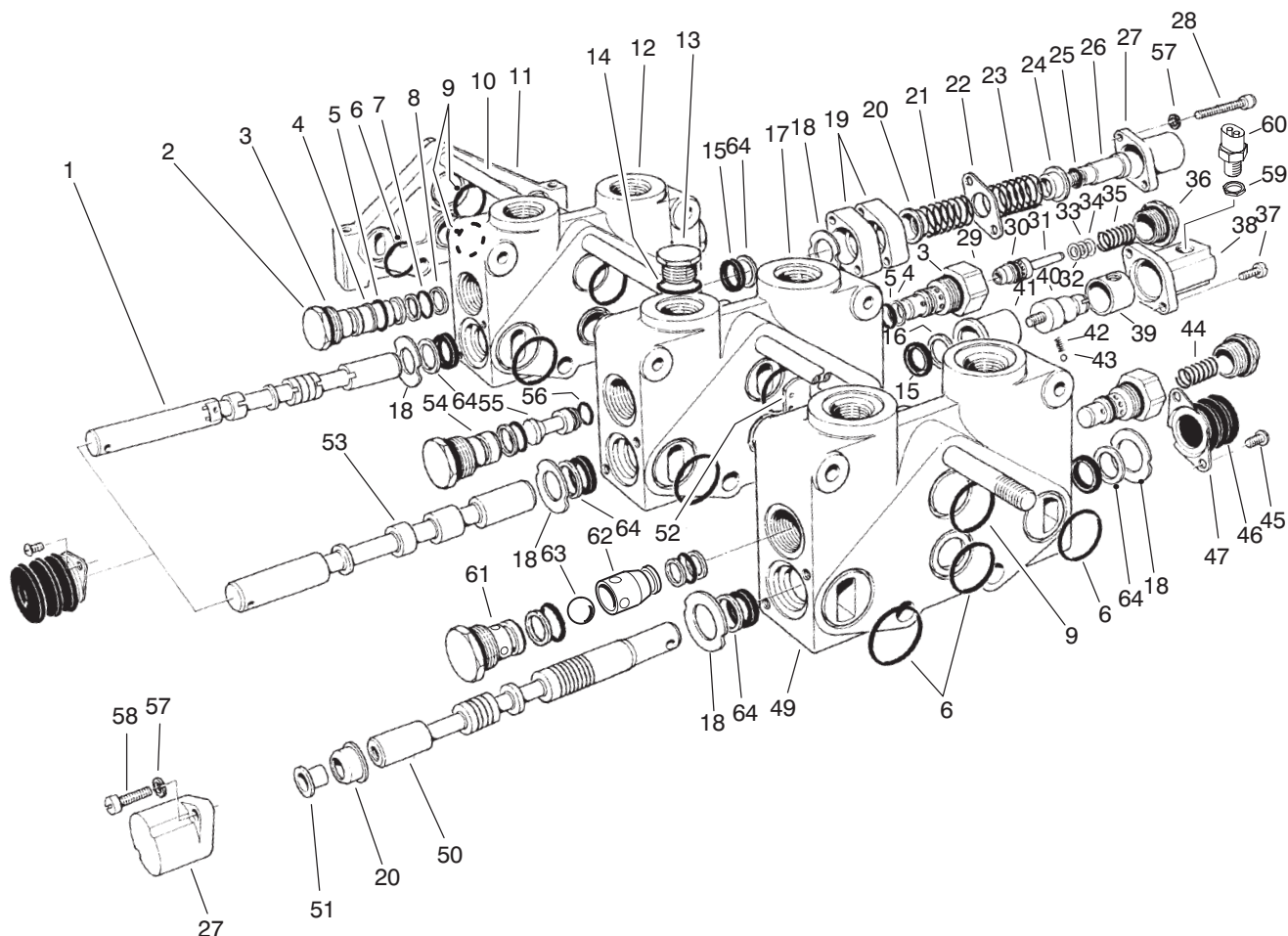


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## CONTROL VALVE ASSY. NO. 84-2203 (Sections 3 Thru 5)

| Ref. No. | Part No. | Description                                  | No. Used | Ref. No. | Part No. | Description                         | No. Used |
|----------|----------|----------------------------------------------|----------|----------|----------|-------------------------------------|----------|
| 1        | 94-5434  | Spool #5                                     | 1        | 24       | 353-808  | Collar - Spring                     | 1        |
| 2        | 353-481  | Plug - Load Check<br>(Incl. Ref. #3-5 & 7-8) | 2        | 25       | 353-830  | O-Ring                              | 1        |
| 3        | 237-54   | O-Ring                                       | 6        | 26       | 94-4248  | Collar Spool                        | 1        |
| 4        | 353-306  | Ring - Backup                                | 5        | 27       | 354-26   | Bonnet                              | 2        |
| 5        | 353-305  | O-Ring                                       | 5        | 28       | 354-28   | Screw - Hex, Socket Hd.             | 2        |
| †6       |          | O-Ring                                       | 11       | 29       | 353-851  | Body - Relief CP-RC Mod.            | 2        |
| 7        | 353-302  | O-Ring                                       | 3        | 30       | 353-392  | Seal - Relief Poppet PTFE           | 2        |
| 8        | 353-303  | Ring - Backup                                | 6        | 31       | 353-531  | Poppet Assembly<br>(Incl. Ref. #30) | 2        |
| †9       |          | O-Ring                                       | 5        | 32       | 353-328  | Washer - Shim                       | A/R      |
| 10       | 353-853  | Bolt - Hex Hd.                               | 3        | 33       | 353-329  | Washer - Shim                       | A/R      |
| 11       | 353-668  | Plate - Cap, Cover RH                        | 1        | 34       | 353-330  | Washer - Shim                       | A/R      |
| 12       |          | Housing V20 #5                               | 1        | 35       | 353-398  | Spring                              | 1        |
| 13       | 353-550  | Plug Assembly<br>(Incl. Ref. #14)            | 1        | 36       | 353-334  | Cap - Relief                        | 2        |
| 14       | 353-848  | O-Ring                                       | 1        | 37       | 52-5900  | Screw - Fillister Hd.               | 4        |
| 15       | 353-957  | Seal - Lip                                   | 6        | 38       | 353-847  | Bonnet (SPL)                        | 1        |
| 16       | 353-958  | Ring - Backup                                | 1        | 39       | 353-849  | Sleeve                              | 1        |
| †17      |          | Housing V20 #4                               | 1        | 40       | 353-846  | Spud - DI (SPL)                     | 1        |
| 18       | 92-2547  | Plate - Seal Retainer                        | 6        | 41       | 353-845  | Sleeve - Detent                     | 1        |
| 19       | 353-733  | Spacer - Bonnet                              | 2        | 42       | 353-730  | Spring                              | 1        |
| 20       | 353-417  | Collar Spring                                | 2        | 43       | 353-731  | Ball                                | 1        |
| 21       | 353-831  | Spring                                       | 1        | 44       | 353-855  | Spring                              | 1        |
| 22       | 353-529  | Plate Seal                                   | 1        | 45       | 3274-52  | Screw - Hex. Socket Hd.             | 6        |
| 23       | 92-3148  | Spring                                       | 1        | 46       | 353-575  | Boot - Dust Cap                     | 3        |
|          |          |                                              |          | 47       | 93-3651  | Retainer - Boot                     | 3        |

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



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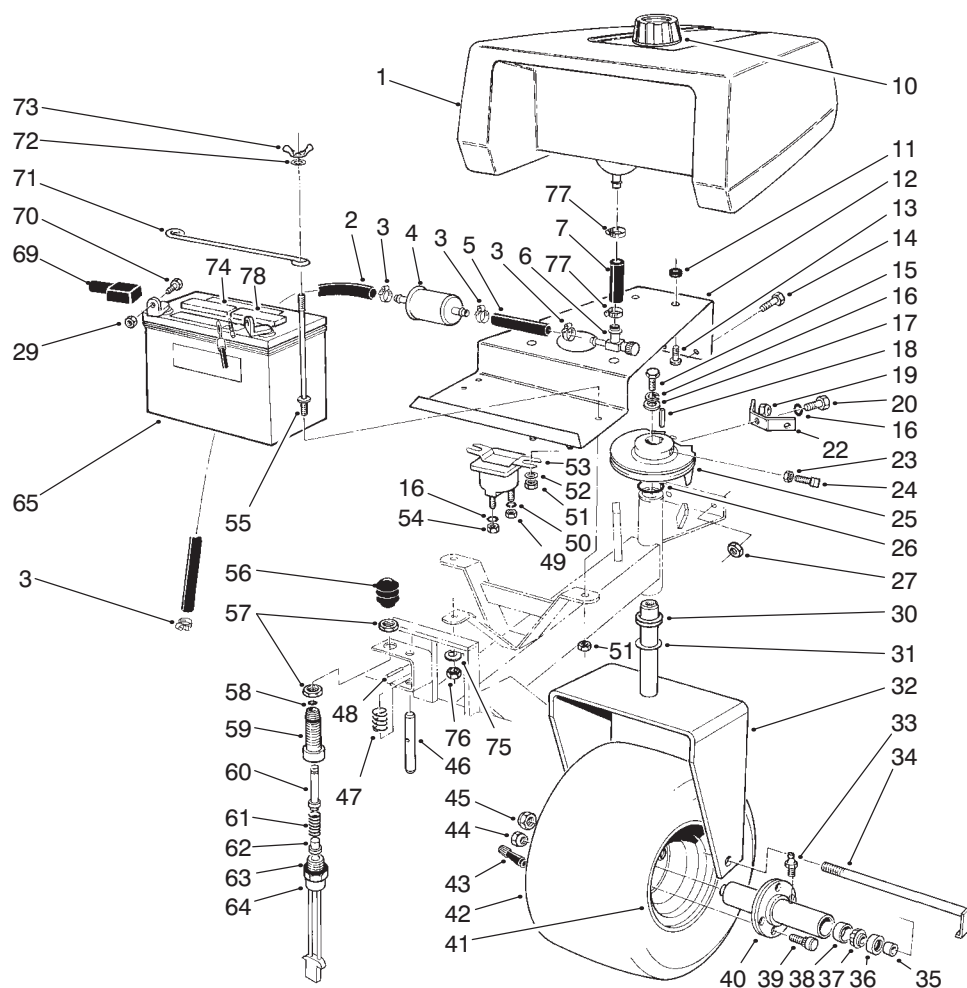
## CONTROL VALVE ASSEMBLY NO. 84-2203 (Sections 3 Thru 5) (Continued)

| 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  | Plug Series<br>(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.<br>(Incl. Ref. #3-5, 7-8 & 61-63) | 1        |
| *        | 353-835  | Seals - Section Set<br>(Incl. Ref. #6 & 9)                   | 1        |
| *        | 93-3652  | Boot - Spool Assembly<br>(Incl. Ref. #45-47)                 | 3        |

| Ref. No. | Part No. | Description                                                | No. Used |
|----------|----------|------------------------------------------------------------|----------|
| *        | 354-131  | Section #3 Assembly<br>(Complete)                          | 1        |
| *        | 354-25   | Section #4 Assembly<br>(Complete)                          | 1        |
| *        | 93-1386  | Section #5 Assembly<br>(Complete)                          | 1        |
| *        | 353-841  | Position - Spool Assembly<br>(Incl. Ref. #20 27 37 & 51)   | 1        |
| *        | 353-840  | Position - DI (SP) Assy.<br>(Incl. Ref. #37-43)            | 1        |
| *        | 353-642  | Relief - RC Mod. Assembly<br>(Incl. Ref. #3-5 & 29-36)     | 1        |
| *        | 353-833  | Positioner Assembly<br>(Incl. Ref. #19-28)                 | 1        |
| *        | 84-2203  | Control Valve Assembly<br>Complete                         | 1        |
| *        | 92-2548  | Seal - Spool (Single End Set)<br>(Incl. Ref. #15, 16 & 18) | 1        |
| *        | 92-2549  | Seals - End Set #4 Only<br>(Incl. Ref. #15-16 & 18)        | 1        |
| *        | 92-2545  | Seals - Spool<br>(Entire Valve Set)                        | 1        |

\*Not Illustrated

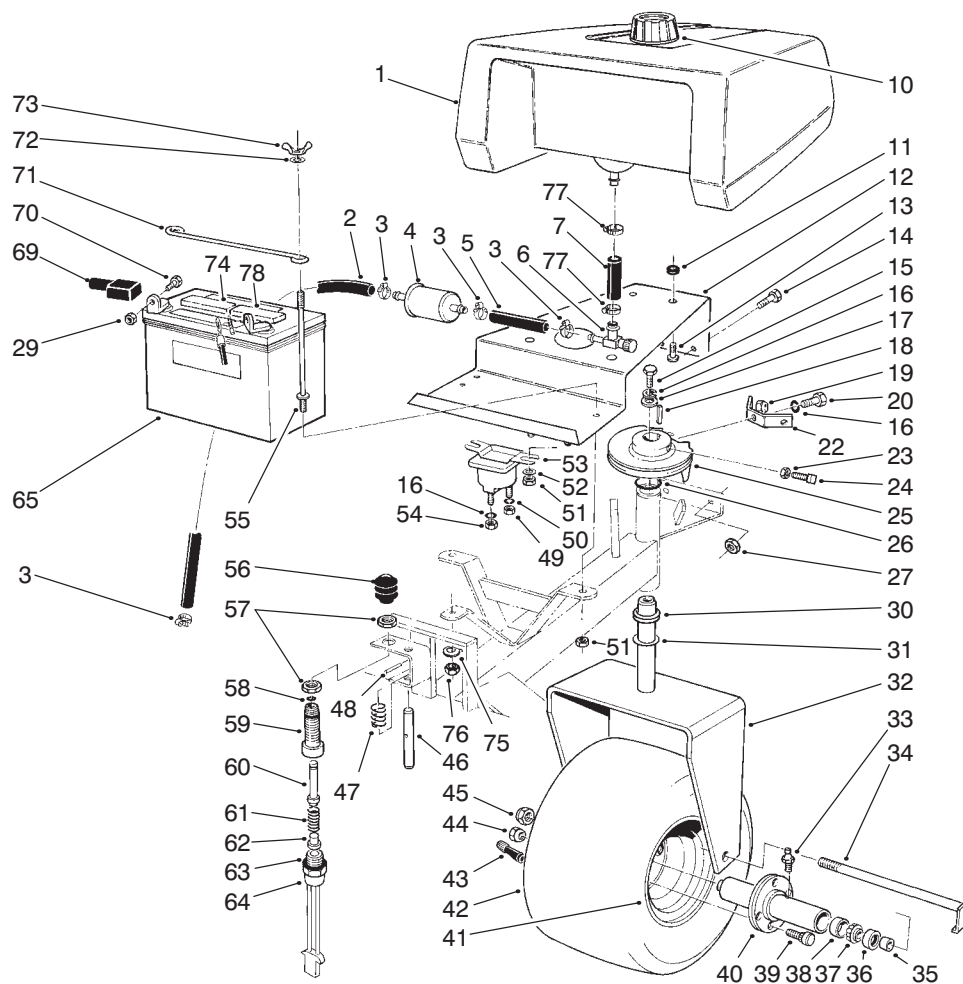
†Parts Available as Assemblies Listed as (\*Not Illustrated) on This Page



T-0303

## GAS TANK BATTERY AND CASTER WHEEL ASSEMBLY

| Ref. No. | Part No. | Description             | No. Used | Ref. No. | Part No. | Description           | No. Used |
|----------|----------|-------------------------|----------|----------|----------|-----------------------|----------|
| 1        | 74-3580  | Gas Tank                | 1        | 31       | 62-2170  | Washer-Thrust         | 1        |
| 2        | 62-2470  | Hose - Gas Line (Long)  | 1        | 32       | 62-2220  | Caster Fork           | 1        |
| 3        | 2412-108 | Clamp - Hose            | 4        | 33       | 302-5    | Fitting - Grease      | 1        |
| 4        | 18-1520  | Fuel Filter             | 1        | 34       | 5-3934   | Bolt                  | 1        |
| 5        | 56-2240  | Hose - Gas Line (Short) | 1        | 35       | 74-3730  | Spacer                | 2        |
| 6        | 56-2520  | Fitting - Fuel Shut-off | 1        | 36       | 253-111  | Seal                  | 2        |
| 7        | 56-2230  | Hose - Fuel Line        | 1        | 37       | 254-78   | Cone                  | 2        |
| 10       | 55-3570  | Gas Cap                 | 1        | 38       | 254-79   | Cup                   | 2        |
| 11       | 237-136  | Grommet                 | 4        | 39       | 10-6830  | Drive Stud            | 4        |
| 12       | 62-2210  | Tank Base               | 1        | 40       | 75-9440  | Hub Assembly          | 1        |
| 13       | 3250-36  | Screw - Phil. Hd.       | 4        | 41       | 217-60   | Rim                   | 1        |
| 14       | 323-6    | Screw - Cap, Hex Hd.    | 2        | 42       | 28-3680  | Tire                  | 1        |
| 15       | 322-3    | Screw - Cap, Hex Hd.    | 1        | 43       | 232-24   | Valve Stem - With Cap | 1        |
| 16       | 3253-4   | Washer - Lock           | 4        | 44       | 242-50   | Nut - Wheel           | 4        |
| 17       | 62-2190  | Washer - Special        | 1        | 45       | 3296-67  | Nut - Lock            | 1        |
| 18       | 5-0698   | Key                     | 1        | 46       | 51-0350  | Pin - Seat Spring     | 1        |
| 19       | 3296-4   | Nut - Lock              | 2        | 47       | 3-6685   | Spring                | 1        |
| 20       | 322-5    | Screw - Cap, Hex Hd.    | 1        | 48       | 3284-3   | Pin Groove            | 1        |
| 22       | 3-8516   | Anchor - Cable          | 1        | 49       | 3219-14  | Nut-Hex               | 2        |
| 23       | 3218-2   | Nut - Jam               | 2        | 50       | 3254-1   | Washer - Lock         | 2        |
| 24       | 3242-9   | Screw - Set, Sq. Hd.    | 2        | 51       | 32149-2  | Nut - Lock            | 2        |
| 25       | 61-9390  | Drum - Steering         | 1        | 52       | 3256-22  | Washer - Flat         | 2        |
| 26       | 237-149  | O-Ring - Seal           | 1        | 53       | 28-4210  | Solenoid              | 1        |
| 27       | 3296-39  | Nut - Lock              | 2        | 54       | 3218-13  | Nut - Jam             | 2        |
| 29       | 3217-5   | Nut - Hex               | 2        | 55       | 10-8120  | Bolt - Battery        | 2        |
| 30       | 237-148  | Seal - Quad Ring        | 1        | 56       | 43-8870  | Boot - Switch         | 1        |



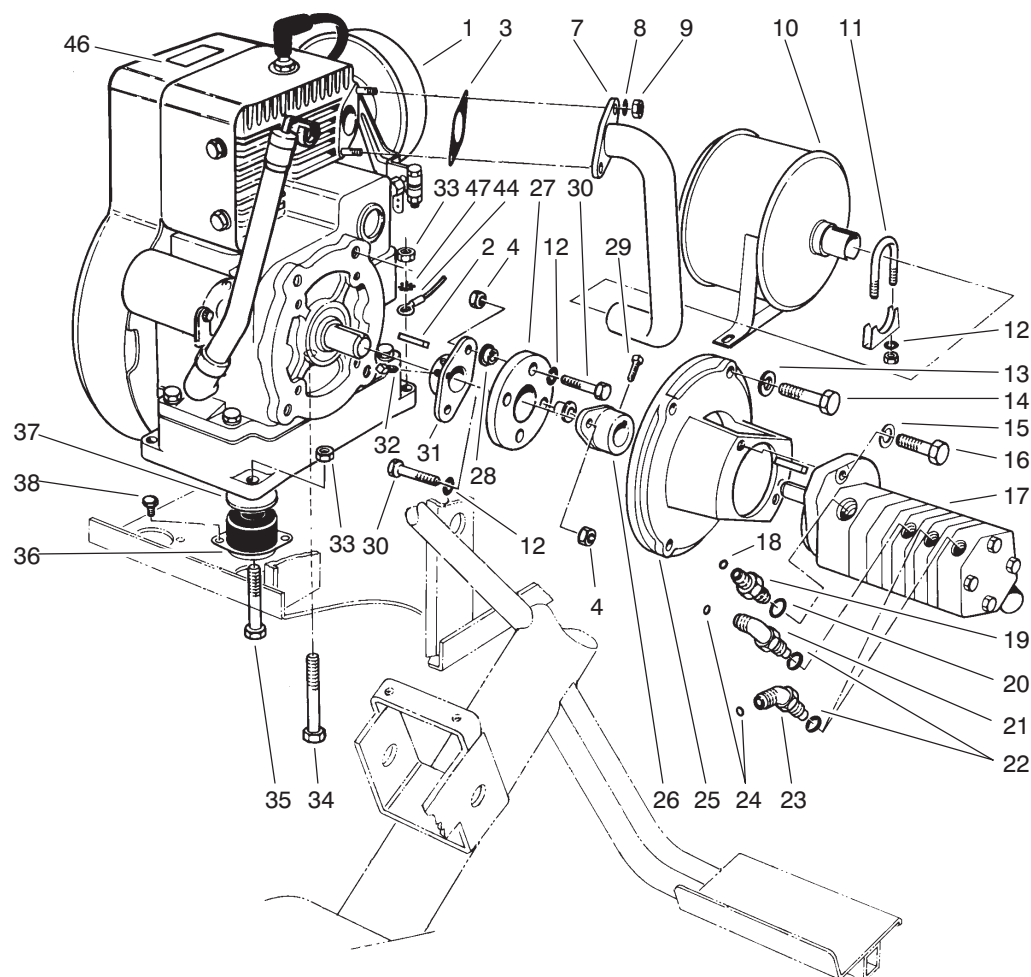
T-0303

## GAS TANK BATTERY & CASTER WHEEL ASSEMBLY (Continued)

| Ref. No. | Part No. | Description                | No. Used |
|----------|----------|----------------------------|----------|
| 57       | 218-461  | Nut - Jam                  | 2        |
| 58       | 237-7    | O-Ring                     | 1        |
| 59       | 43-8620  | Guide - Switch Pin         | 1        |
| 60       | 43-8860  | Plunger - Switch           | 1        |
| 61       | 43-8600  | Spring - Compression       | 1        |
| 62       | 43-8610  | Guide - Spring & Ball Seat | 1        |
| 63       | 237-30   | O-Ring                     | 1        |
| 64       | 72-4320  | Switch - Neutral           | 1        |
| 65       | 28-1400  | Battery                    | 1        |
| 69       | 28-8080  | Boot Terminal              | 1        |
| 70       | 321-3    | Screw - Cap, Hex Hd.       | 2        |

| Ref. No. | Part No. | Description                            | No. Used |
|----------|----------|----------------------------------------|----------|
| 71       | 72-4790  | Hold Down - Battery                    | 1        |
| 72       | 3256-22  | Washer - Flat                          | 2        |
| 73       | 32103-12 | Nut - Wing                             | 2        |
| 74       | 92-1707  | Cap - Battery (Poison)                 | 1        |
| 75       | 3256-23  | Washer - Flat                          | 1        |
| 76       | 3296-29  | Nut - Lock                             | 1        |
| 77       | 2412-36  | Clamp - Gas Line                       | 2        |
| 78       | 92-1699  | Cap - Battery (Flush)                  | 1        |
| *        | 43-9071  | Switch Assembly<br>(Incl. Ref. #56-64) | 1        |

\*Not Illustrated

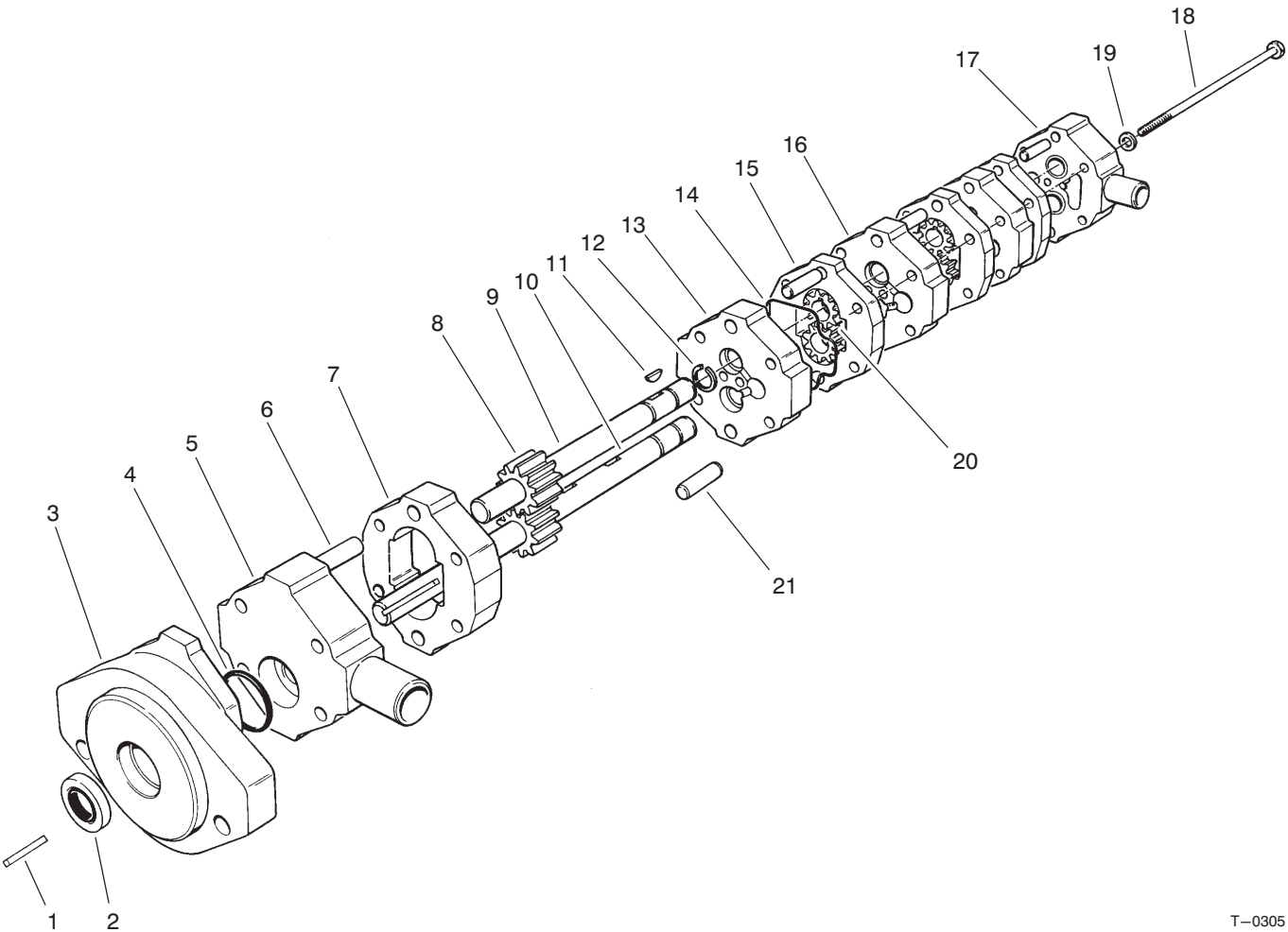


T-0304

## ENGINE AND WIRING DIAGRAM

| Ref. No. | Part No. | Description                       | No. Used | Ref. No. | Part No. | Description                | No. Used |
|----------|----------|-----------------------------------|----------|----------|----------|----------------------------|----------|
| 1        | 12-7189  | Engine                            | 1        | 25       | 27-1930  | Pump Mount                 | 1        |
| 2        | 10-7070  | Key - Engine                      | 1        | 26       | 27-1970  | Coupling - Pump            | 1        |
| 3        | 82-5570  | Gasket - Exhaust                  | 1        | 27       | 44-2230  | Coupling - Rubber          | 1        |
| 4        | 3296-29  | Nut - Lock                        | 4        | 28       | 27-6600  | Spacer - Rubber            | 4        |
| 7        | 62-2270  | Exhaust Pipe                      | 1        | 29       | 3241-6   | Screw - Set, Sq. Hd.       | 2        |
| 8        | 3253-4   | Washer - Lock                     | 2        | 30       | 322-6    | Screw - Cap, Hex Hd.       | 4        |
| 9        | 3217-6   | Nut - Hex                         | 2        | 31       | 27-1960  | Coupling - Engine          | 1        |
| 10       | 62-2110  | Muffler Assembly                  | 1        | 32       | 3241-2   | Screw - Set, Sq. Hd.       | 2        |
| *        | 62-2780  | Spark Arrestor Muffler (Optional) | 1        | 33       | 3296-39  | Nut - Lock                 | 4        |
| 11       | 2412-76  | Muffler Clamp Assembly            | 1        | 34       | 323-15   | Screw - Cap, Hex Hd.       | 1        |
| 12       | 3256-23  | Washer - Flat                     | 6        | 35       | 323-20   | Screw - Cap, Hex Hd.       | 3        |
| 13       | 3253-6   | Washer - Lock                     | 4        | 36       | 27-2150  | Mounting Pad - Engine      | 4        |
| 14       | 324-6    | Screw - Cap, Hex Hd.              | 4        | 37       | 63-7400  | Washer - Flat              | 4        |
| 15       | 3253-21  | Washer - Lock                     | 2        | 38       | 32144-1  | Screw - Thread Forming     | 8        |
| 16       | 323-8    | Screw - Cap, Hex Hd.              | 2        | 39       | 62-2350  | Wire Harness - Column      | 1        |
| 17       | 62-2300  | Traction Pump Assembly            | 1        | 40       | 88-9690  | Wire Harness - Frame       | 1        |
| 18       | 237-30   | O-Ring                            | 1        | 41       | 88-9680  | Wire Harness - Traction    | 1        |
| 19       | 340-6    | Fitting - Straight                | 1        | 42       | 10-7130  | Wire - Solenoid to Battery | 1        |
| 20       | 237-79   | O-Ring                            | 1        | 43       | 28-2120  | Wire - Battery to Ground   | 1        |
| 21       | 340-77   | 90° Fitting                       | 1        | 44       | 27-3070  | Wire - Battery to Engine   | 1        |
| 22       | 237-42   | O-Ring                            | 3        | 45       | 62-2630  | Wire Assembly              | 1        |
| 23       | 340-87   | 45° Fitting                       | 2        | 46       | 71-3620  | Decal - Engine             | 1        |
| 24       | 237-22   | O-Ring                            | 2        | 47       | 3254-6   | Washer - Lock              | 1        |

\*Not Illustrated

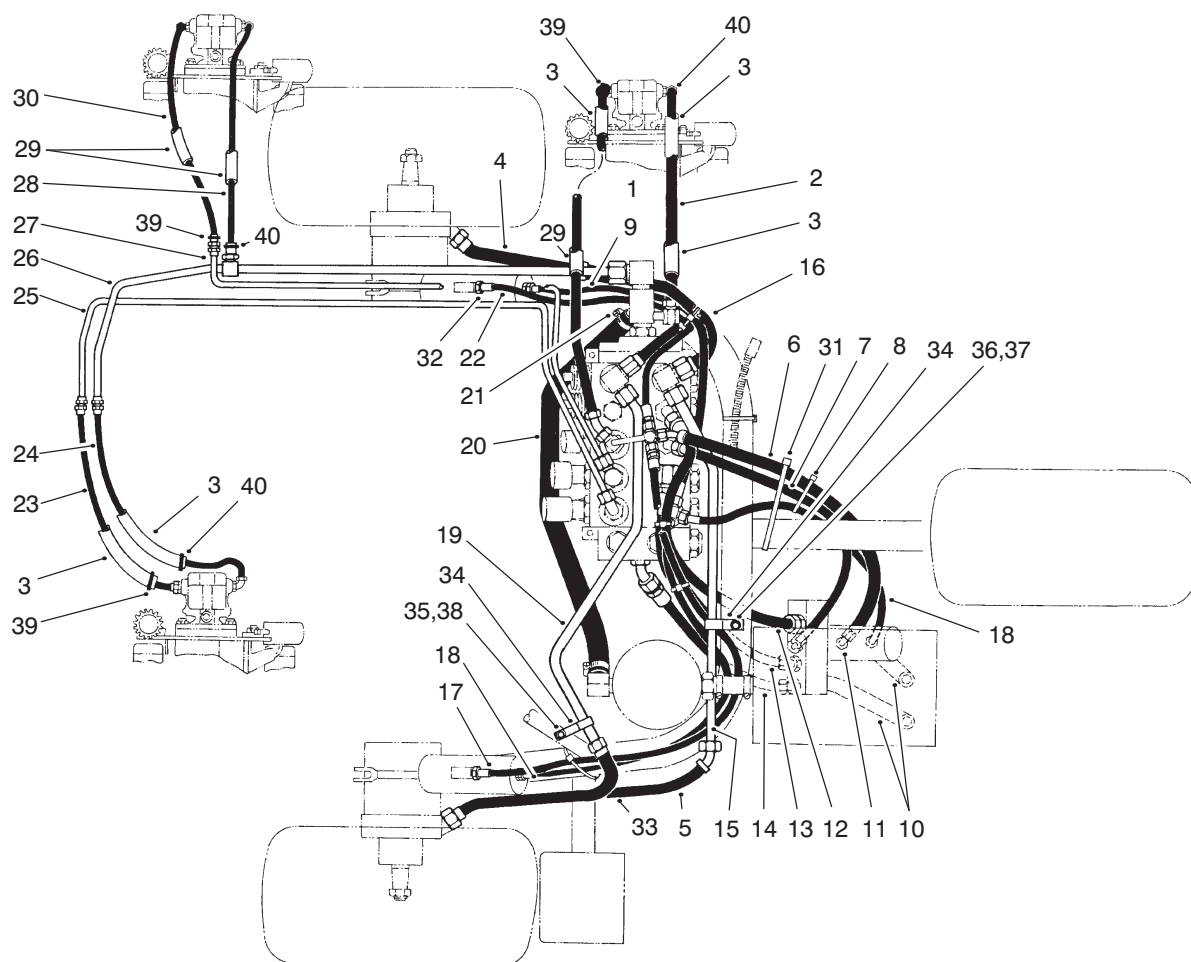


T-0305

# TRACTION PUMP NO. 62—2300

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

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



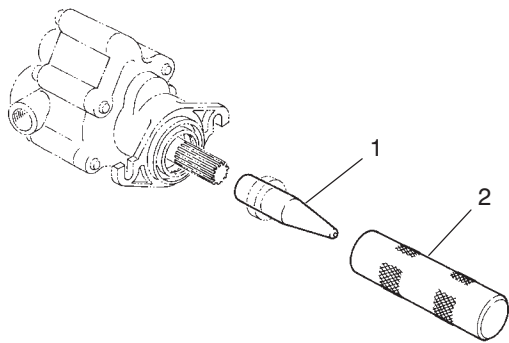
T-0306B

## HYDRAULIC SYSTEMS DIAGRAM

| Ref. No. | Part No. | Description                                    | No. Used | Ref. No. | Part No. | Description                                   | No. Used |
|----------|----------|------------------------------------------------|----------|----------|----------|-----------------------------------------------|----------|
| 1        | 74-3830  | Hose - Pressure, Rear<br>(Incl. Ref. #29 & 39) | 1        | 23       | 63-3870  | Hose - Pressure L.H.<br>(Incl. Ref. #3 & 39)  | 1        |
| 2        | 63-3840  | Hose - Return, Rear<br>(Incl. Ref. #3 & 40)    | 1        | 24       | 63-3830  | Hose - Return L.H.<br>(Incl. Ref. #3 & 40)    | 1        |
| 3        | 56-7981  | Sleeve - Protective                            | 3        | 25       | 63-4020  | Pressure Line<br>Cutting Unit L.H.            | 1        |
| 4        | 70-8600  | Traction Hose - Upper R.H.                     | 1        | 26       | 63-4040  | Return Line - R.H.                            | 1        |
| 5        | 70-7150  | Traction Hose - Lower L.H.                     | 1        | 27       | 63-4030  | Pressure Line<br>Cutting Unit R.H.            | 1        |
| 6        | 63-3930  | Hose Cylinder - Drop, Rear                     | 1        | 28       | 63-3820  | Hose - Return R.H.<br>(Incl. Ref. #29 & 40)   | 1        |
| 7        | 63-3900  | Hose - Pump #3                                 | 1        | 29       | 56-7980  | Sleeve - Protective                           | 3        |
| 8        | 3290-379 | Tie - Cable                                    | 6        | 30       | 63-3810  | Hose - Pressure R.H.<br>(Incl. Ref. #29 & 39) | 1        |
| 9        | 63-3880  | Hose - Cylinder, Lift R.H.                     | 1        | 31       | 3333-975 | Cable Tie                                     | 1        |
| 10       | 27-3040  | Hose - Pump/Inlet                              | 2        | 32       | 340-92   | Fitting - Orifice Str.                        | 1        |
| 11       | 340-103  | 45° Elbow Adjustable                           | 1        | 33       | 70-8610  | Hose - Traction, Upper L.H.                   | 1        |
| 12       | 63-3940  | Hose - Pump #4                                 | 1        | 34       | 2412-41  | R-Clamp                                       | 3        |
| 13       | 63-3910  | Hose - Pump #2                                 | 1        | 35       | 12-3270  | Screw - Cap, Hex. Hd.                         | 3        |
| 14       | 63-3920  | Hose - Pump #1                                 | 1        | 36       | 321-3    | Screw - Cap, Hex. Hd.                         | 1        |
| 15       | 83-1200  | Tube - Traction Lower L.H.                     | 1        | 37       | 3296-16  | Nut - Lock                                    | 1        |
| 16       | 83-2460  | Hose - Traction Lower R.H.                     | 1        | 38       | 3256-22  | Washer - Flat                                 | 1        |
| 17       | 63-3850  | Hose - Cylinder - Drop L.H.                    | 1        | 39       | 93-9346  | Clamp - Hose, Pressure                        | 6        |
| 18       | 63-3890  | Hose - Cylinder - Lift L.H.                    | 1        | 40       | 93-9347  | Clamp - Hose, Return                          | 6        |
| 19       | 70-7130  | Traction Line - Upper L.H.                     | 1        |          |          |                                               |          |
| 20       | 68-5880  | Return Line - Man. to Filter                   | 1        |          |          |                                               |          |
| 21       | 2412-3   | Clamp - Hose                                   | 2        |          |          |                                               |          |
| 22       | 63-3950  | Hose - Cylinder - Drop L.H.                    | 1        |          |          |                                               |          |

# SPECIAL TOOLS

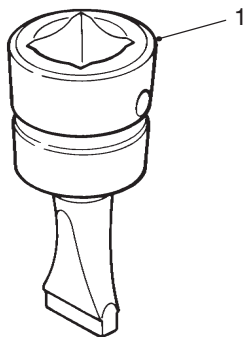
## REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

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

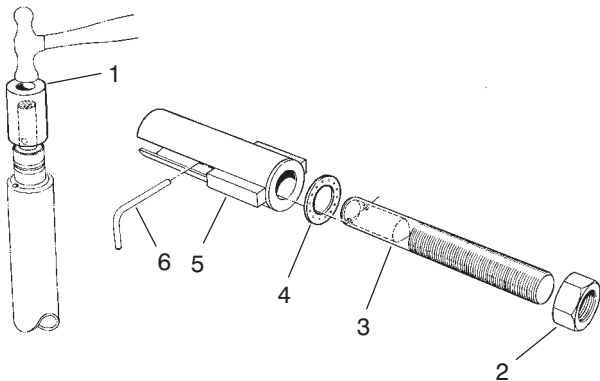
## BED KNIFE SCREW TOOL NO. TOR510880



T-0729

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

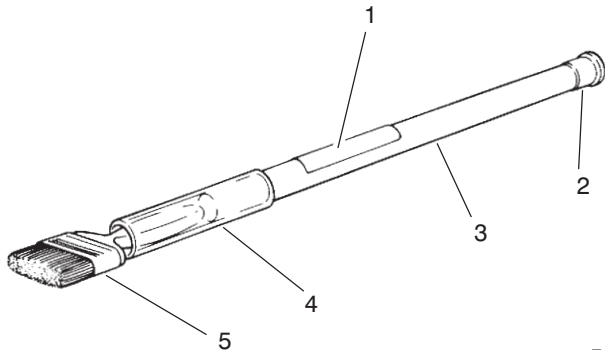
## BEARING REPLACEMENT TOOL KIT NO. TOR238900



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



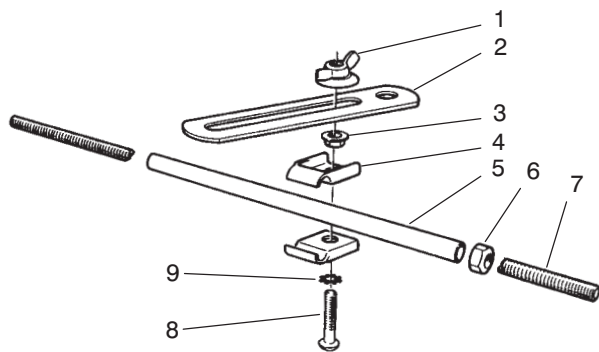
T-0731

| 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

# dSPECIAL TOOLS (Continued)

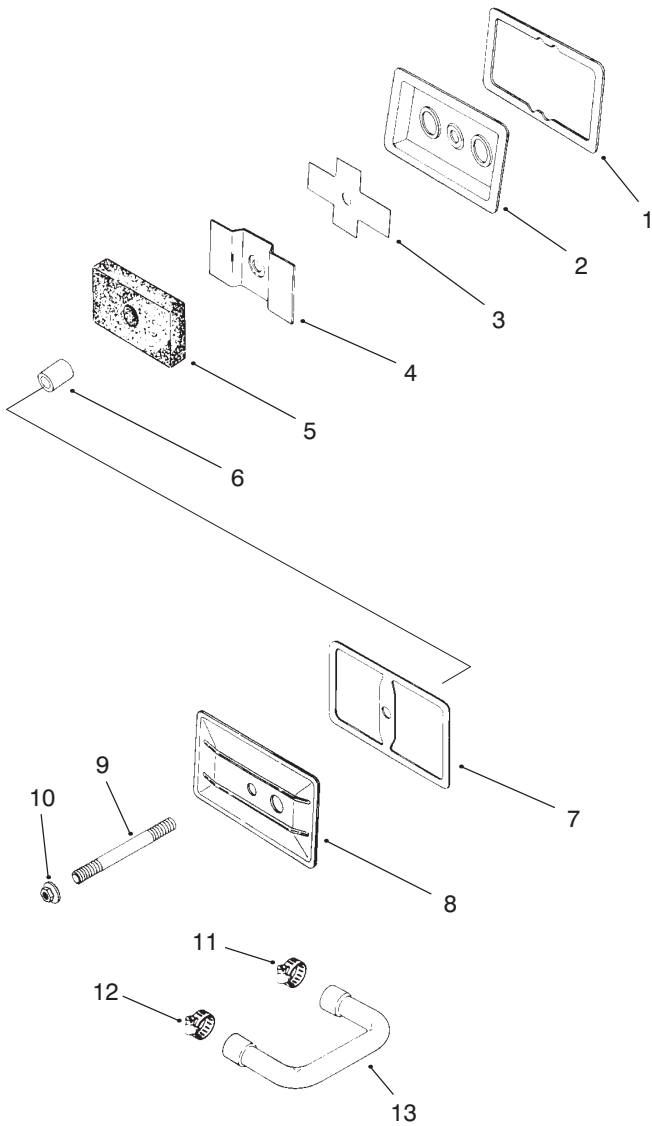
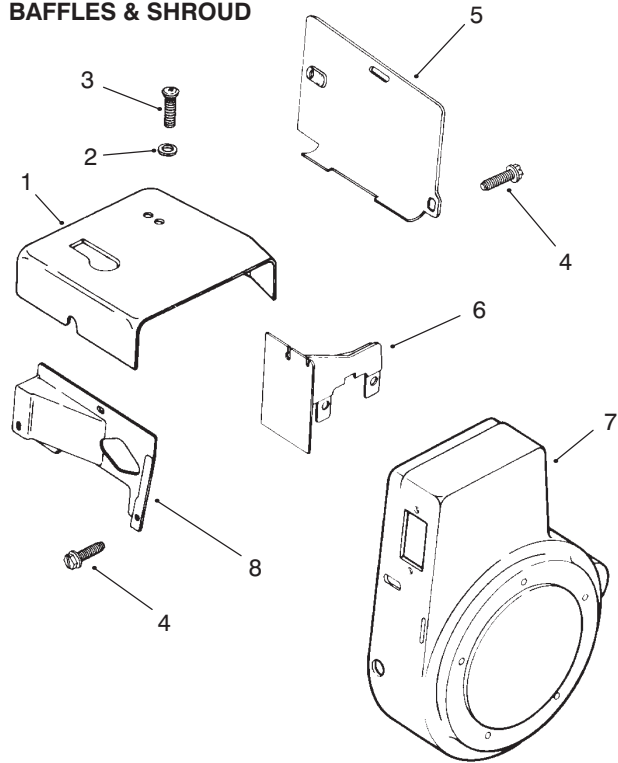
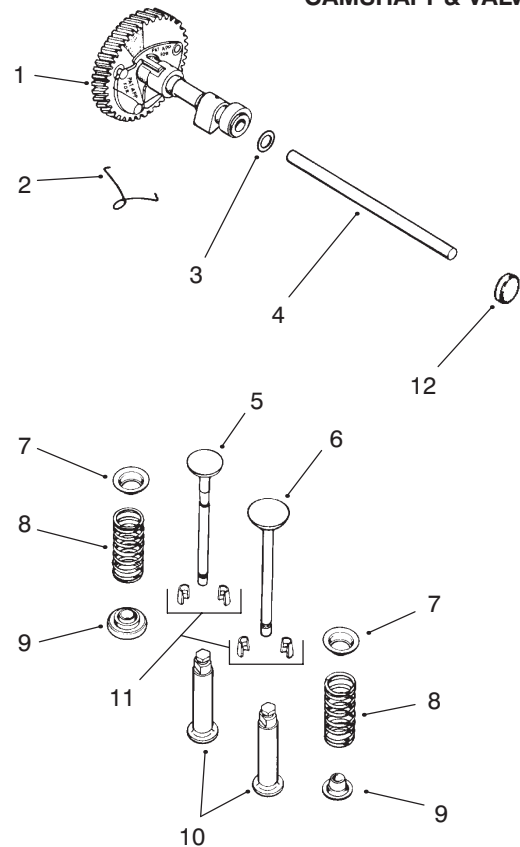
## ALIGNMENT TOOL NO. TOR200120



T-0732

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

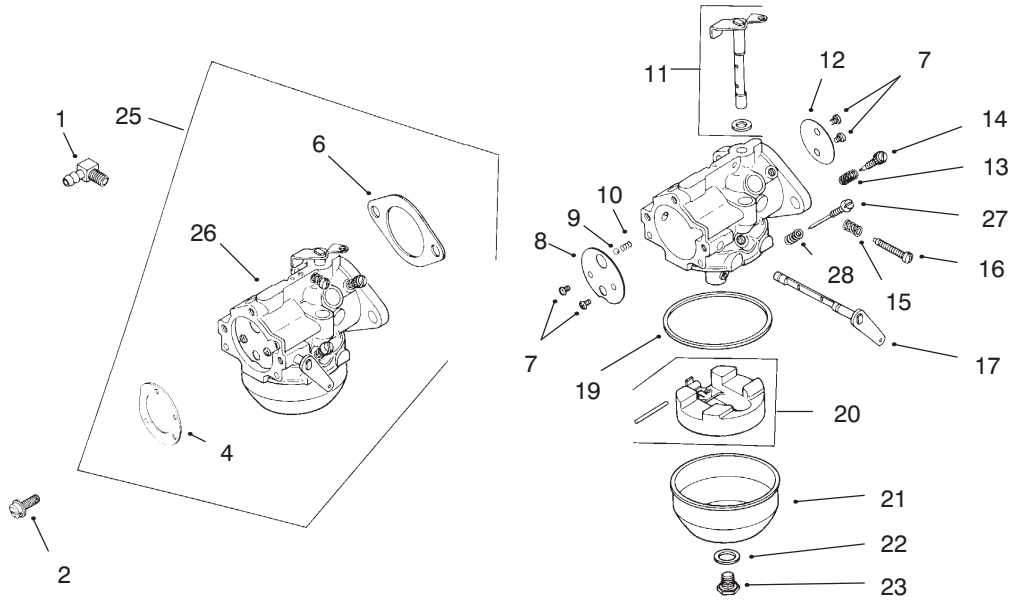
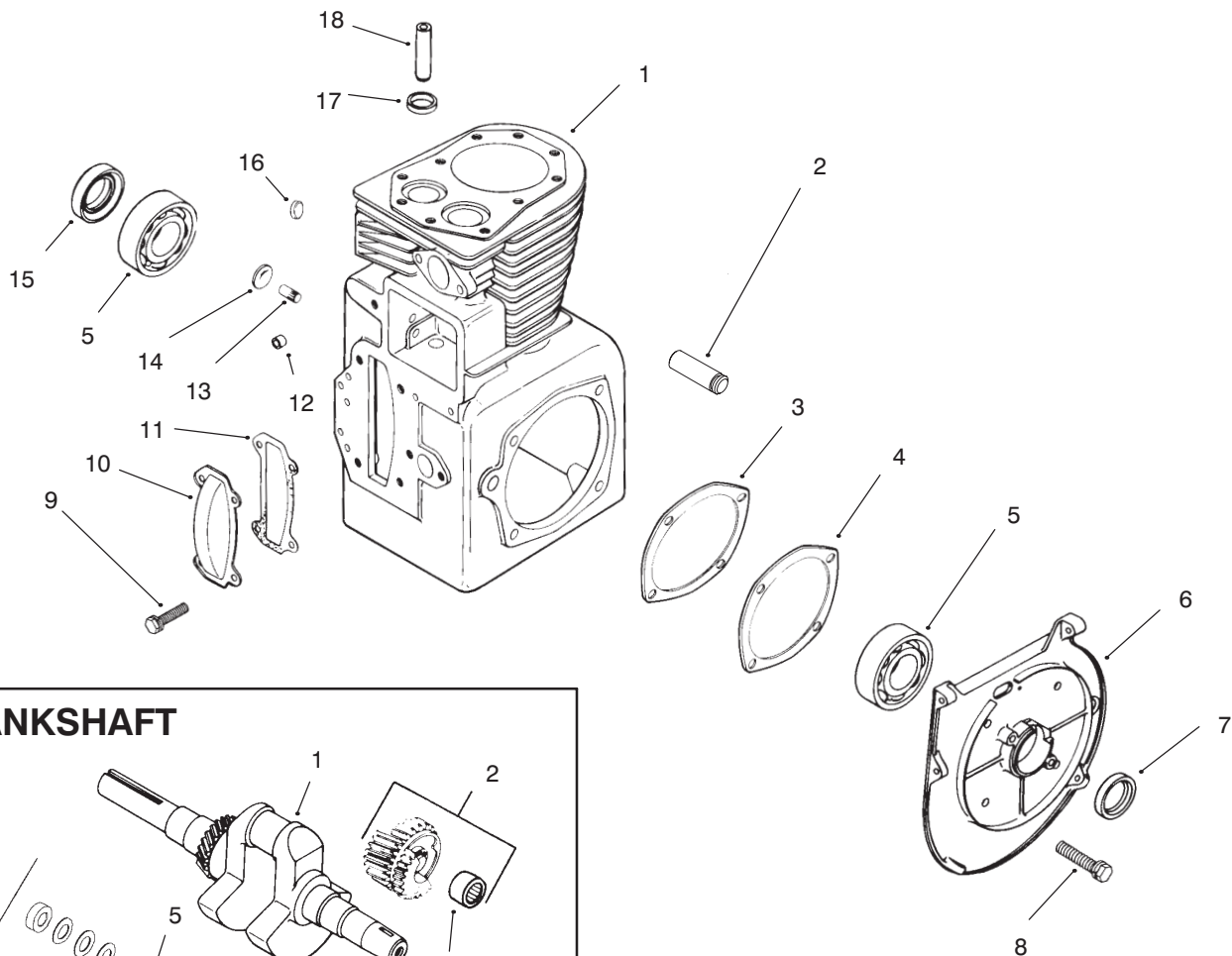
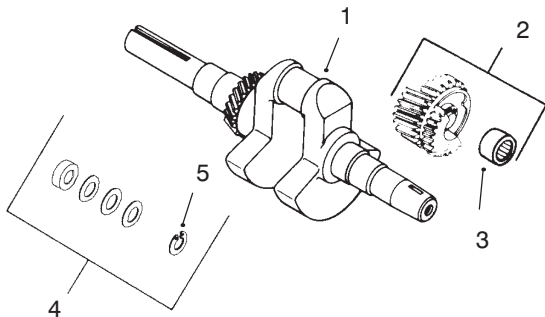
**Note: Special tools may be ordered from: Owatonna Tool Company**  
**2013 4th St. NW**  
**Owatonna, MN 55060**

**ENGINE ASSY. — KOHLER MODEL NO. M16S-711533****Group 3  
BREATHER & VENT****Group 2  
BAFFLES & SHROUD****Group 4  
CAMSHAFT & VALVES**

# ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

| Ref. No. | Part No. | Description                 | No. Used |
|----------|----------|-----------------------------|----------|
|          |          | <b>Baffles &amp; Shroud</b> |          |
| 1        | 4506308  | Baffle — Head               | 1        |
| 2        | X-25-53  | Washer — Plain              | 1        |
| 3        | 4708608  | Screw — Pozidriv T.H.       | 1        |
| 4        | 5208611  | Screw — Hex Wash. Hd.       | 6        |
| 5        | 4706310  | Baffle — Cylinder           | 1        |
| 6        | 4706307  | Baffle — Inner              | 1        |
| 7        | 4702742  | Housing — Blower            | 1        |
| 8        | 4706311  | Baffle — Side Air           | 1        |
|          |          | <b>Breather &amp; Vent</b>  |          |
| 1        | 235048   | Gasket — Breather Plate     | 1        |
| 2        | 235631   | Plate — Breather            | 1        |
| 3        | 235047   | Reed — Breather             | 1        |
| 4        | 235117   | Baffle — Breather           | 1        |
| 5        | 235118   | Filter — Breather           | 1        |
| 6        | 231032   | Seal — Breather             | 1        |
| 7        | 275144   | Gasket — Valve Cover        | 1        |
| 8        | 275839   | Cover — Valve               | 1        |
| 9        | 275220   | Stud — Valve Cover          | 1        |
| 10       | X-799-1  | Palnut                      | 1        |
| 11       | X-426-3  | Clamp — Hose 1/2" Wide      | 1        |
| 12       | X-426-9  | Clamp — Hose 5/16" Wide     | 1        |
| 13       | 4732602  | Hose — Breather             | 1        |

| Ref. No. | Part No. | Description                  | No. Used |
|----------|----------|------------------------------|----------|
|          |          | <b>Camshaft &amp; Valves</b> |          |
| 1        | 4701011  | Camshaft Assembly            | 1        |
| 2        | 4708901  | Spring — Actuating           | 1        |
| 3        | 275066   | Spacer .005                  | A/R      |
| 3        | 275067   | Spacer .010                  | A/R      |
| 4        | 4738009  | Pin — Camshaft               | 1        |
| 5        | 237672   | Valve — Exhaust              | 1        |
| 6        | 235582   | Valve — Intake               | 1        |
| 7        | 235011   | Retainer — Upper Spring      | 2        |
| 8        | 235168   | Spring — Valve               | 2        |
| 9        | 5241301  | Rotator                      | 2        |
| 10       | D-235327 | Tappet                       | 2        |
| 11       | 4175510  | Kit — Retainer               | 2        |
| 12       | X-702-3  | Plug Cup 1/2 O.P.            | 1        |

**ENGINE ASSY. — KOHLER MODEL NO. M16S-711533****CARBURETOR****CRANKCASE****CRANKSHAFT**

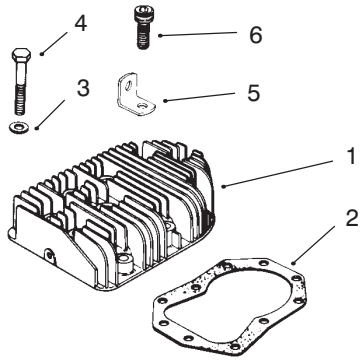
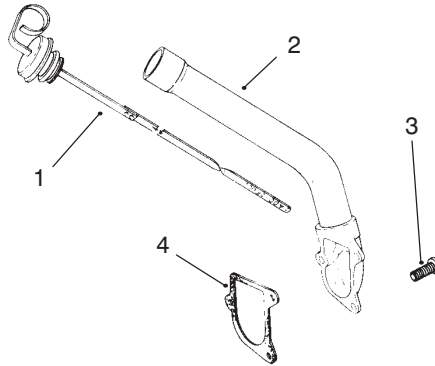
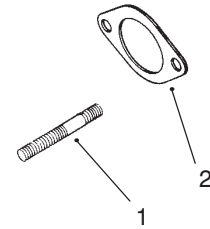
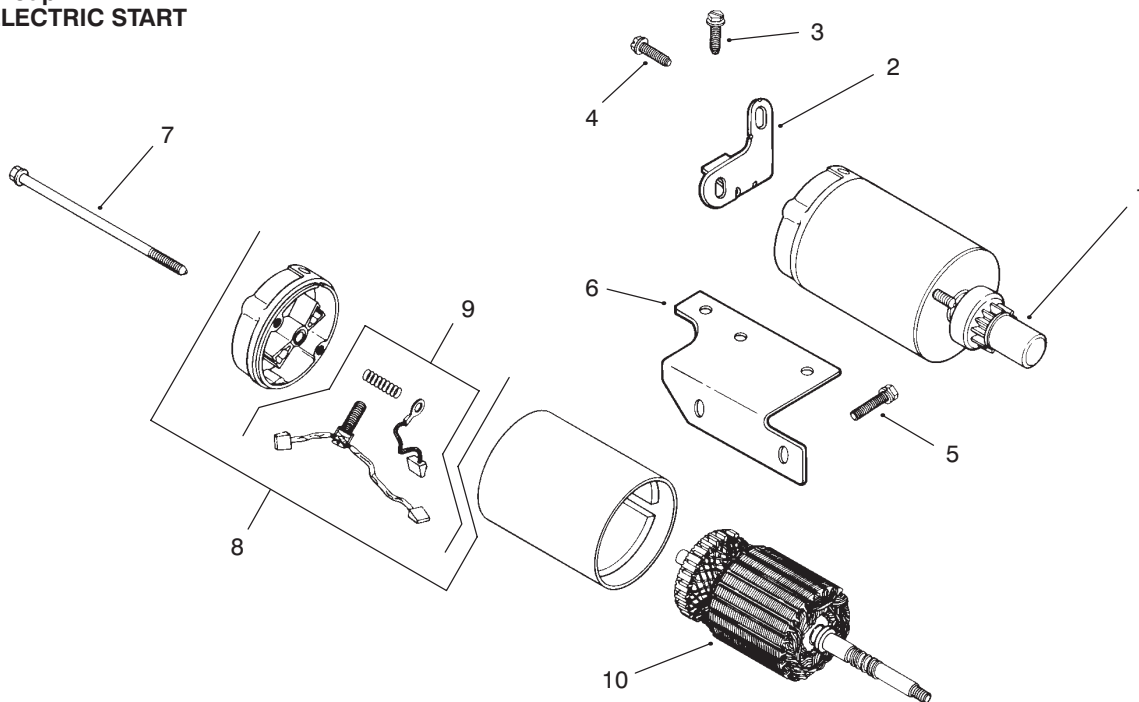
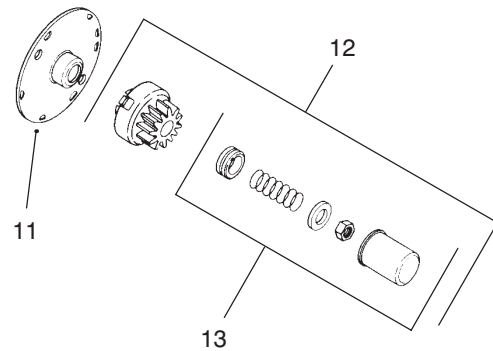
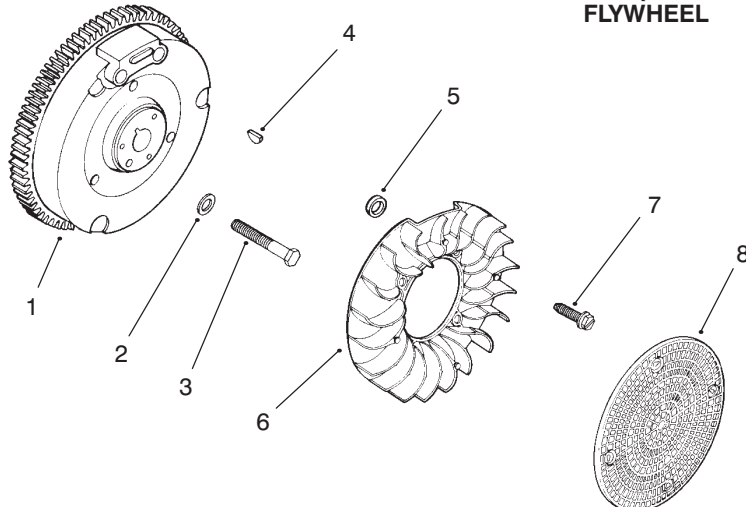
# ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

| Ref. No. | Part No. | Description                                     | No. Used |
|----------|----------|-------------------------------------------------|----------|
|          |          | <b>Carburetor</b>                               |          |
| 1        | 4515501  | Connector — Hose                                | 1        |
| 2        | X-770-1  | Screw — Slt'd. Hd.<br>Built with the following: | 2        |
| 25       | 4585313  | Kit — Carburetor                                | 1        |
| 4        | 275341   | Gasket — Air Cleaner                            | 1        |
| 6        | 4704901  | Gasket — Carburetor                             | 1        |
| †26      | 4505384  | Carburetor Assembly                             | 1        |
| 7        | 2508627  | Screw — Throttle & Choke<br>Plate               | 4        |
| 8        | 4514607  | Plate — Choke                                   | 1        |
| 9        | 2519401  | Ball — Choke Friction                           | 1        |
| 10       | 2508903  | Spring — Choke Friction                         | 1        |
| 11       | 4714425  | Shaft — Throttle w/Lever &<br>Seal              | 1        |
| 12       | 4714610  | Plate — Throttle                                | 1        |
| 13       | 2508902  | Spring — Idle, Fuel                             | 1        |
| 14       | 2536801  | Needle — Idle, Fuel Adjust.                     | 1        |
| 15       | 2508904  | Spring — Idle, Speed                            | 1        |
| 16       | 2508626  | Screw — Idle Speed Adjust.                      | 1        |
| 17       | 4709038  | Lever Assembly, Choke                           | 1        |
| 19       | 2504104  | Gasket — Bowl                                   | 1        |
| 20       | 2575709  | Kit — Float                                     | 1        |
| 21       | 2510401  | Bowl — Fuel                                     | 1        |
| 22       | 2504103  | Gasket — Bowl Ret. Screw                        | 1        |
| 23       | 2510005  | Screw — Bowl Retainer                           | 1        |
| 24       | 2515505  | Connector — Hose                                | 1        |
| 27       | 2536803  | Needle — Main, Fuel                             | 1        |
| 28       | 2508902  | Spring — Main, Fuel                             | 1        |
| *        | 2575711  | Kit — Carburetor Repair                         | 1        |

| Ref. No. | Part No. | Description                                                              | No. Used |
|----------|----------|--------------------------------------------------------------------------|----------|
|          |          | <b>Crankcase</b>                                                         |          |
| 1        | 4578228  | Cylinder Block Assembly<br>(USE: Miniblock)<br>(Incl. Ref. #12, 17 & 18) | 1        |
| 2        | 236559   | Shaft — Balance Gear Stub                                                | 2        |
| 3        | 4742205  | Gasket — Shim                                                            | A/R      |
| 4        | 4704109  | Gasket — Bearing Plate                                                   | 1        |
| 5        | 235376   | Bearing — Ball                                                           | 2        |
| 6        | 4714611  | Plate — Bearing                                                          | 1        |
| 7        | 4703206  | Seal — Front, Oil                                                        | 1        |
| 8        | X-159-2  | Screw — H.C.                                                             | 4        |
| 9        | X-132-6  | Screw — H.C.                                                             | 4        |
| 10       | 235026   | Cover — Camshaft                                                         | 1        |
| 11       | 235025   | Gasket — Camshaft, Cover                                                 | 1        |
| 12       | 234866   | Bearing — Cross Shaft                                                    | 1        |
| 13       | 235125-S | Shaft — Governor                                                         | 1        |
| 14       | X-230-11 | Plug — Expansion                                                         | 1        |
| 15       | 4703207  | Seal — Rear, Oil                                                         | 1        |
| 16       | 4713901  | Plug — Cup                                                               | 2        |
| 17       | 230265   | Insert — Valve                                                           | 2        |
| 18       | 235007-S | Guide — Valve                                                            | 2        |
|          |          | <b>Crankshaft</b>                                                        |          |
| 1        | 4514236  | Kit — Crankshaft                                                         | 1        |
| 2        | 4504303  | Gear Assembly<br>(Incl. Ref. #3)                                         | 2        |
| 3        | 4703001  | Bearing — Needle                                                         | 2        |
| 4        | 4775501  | Kit — Spacer                                                             | 1        |
| 5        | X-269-34 | Retainer                                                                 | 2        |

\*Not Illustrated

†For information only. Not available separately.

**ENGINE ASSY. — KOHLER MODEL NO. M16S-711533****Group 9 CYLINDER HEAD****Group 10 DIPSTICK****Group 12 EXHAUST****Group 11 ELECTRIC START****Group 13 FLYWHEEL**

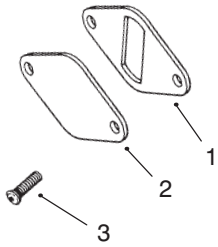
# ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

| Ref. No. | Part No. | Description                            | No. Used |
|----------|----------|----------------------------------------|----------|
|          |          | <b>Cylinder Head</b>                   |          |
| 1        | 4501509  | Head — Cylinder                        | 1        |
| 2        | 4504117  | Gasket — Head                          | 1        |
| 3        | 270889   | Washer — Plain                         | 10       |
| 4        | 270158   | Screw — H.C.                           | 9        |
| 5        | 4744502  | Strap — Lifting                        | 1        |
| 6        | 4708617  | Screw — Hex Socket Hd.                 | 1        |
|          |          | <b>Dipstick</b>                        |          |
| 1        | 4727203  | Dipstick                               | 1        |
| 2        | 4712314  | Adapter — Oil Fill                     | 1        |
| 3        | X-131-2  | Screw — F.H.                           | 3        |
| 4        | 237064   | Gasket — Adapter                       | 1        |
| *        | 4501483  | Extension                              | 1        |
|          |          | <b>Electric Start</b>                  |          |
| 1        | 4109804  | Starter Assembly<br>(Incl. Ref. #8-13) | 1        |
| 2        | 4512617  | Brace — Tail                           | 1        |
| 3        | X-67-83  | Screw — Hex Wash. Hd.                  | 1        |
| 4        | X-67-62  | Screw — Hex Wash. Hd.                  | 1        |
| 5        | X-159-2  | Screw — H.C.                           | 2        |
| 6        | 4712629  | Bracket — Solenoid                     | 1        |
| 7        | 4108619  | Bolt — Thru                            | 2        |
| 8        | 4122704  | Commutator End Cap                     | 1        |
| 9        | 5275515  | Kit — Brush                            | 1        |
| 10       | 4517002  | Armature                               | 1        |
| 11       | 4122703  | Cap — Drive End                        | 1        |
| 12       | 4775507  | Kit — Drive                            | 1        |
| 13       | 4775513  | Kit — Drive Parts                      | 1        |
| *        | 2545003  | Tag — Caution                          | 1        |
| *        | 5235701  | Lubricant — Starter                    | 1        |

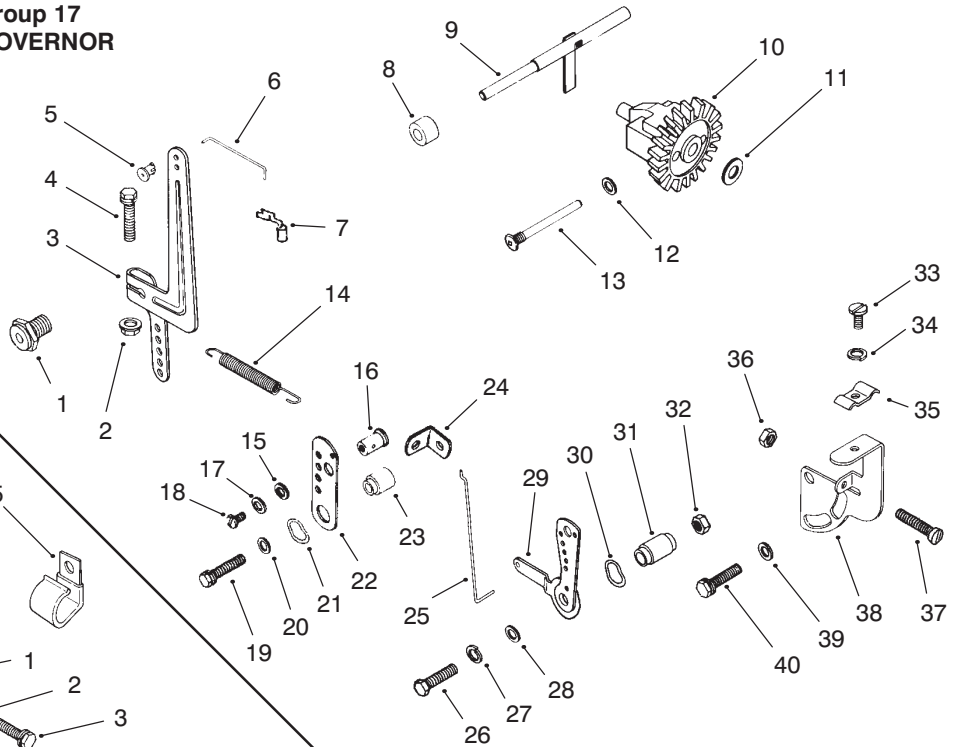
| Ref. No. | Part No. | Description           | No. Used |
|----------|----------|-----------------------|----------|
|          |          | <b>Exhaust</b>        |          |
| 1        | 4107219  | Stud                  | 2        |
| 2        | 4504115  | Gasket — Exhaust      | 1        |
|          |          | <b>Flywheel</b>       |          |
| 1        | 4702553  | Flywheel              | 1        |
| 2        | 5246815  | Washer — Plain        | 1        |
| 3        | 2508624  | Screw — Hex Mach.     | 1        |
| 4        | X-46-3   | Key — Woodruff        | 1        |
| 5        | 2511204  | Spacer                | 4        |
| 6        | 2515701  | Fan                   | 1        |
| 7        | 2508621  | Screw — Hex Wash. Hd. | 4        |
| 8        | 2516201  | Screen — Grass        | 1        |

# ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

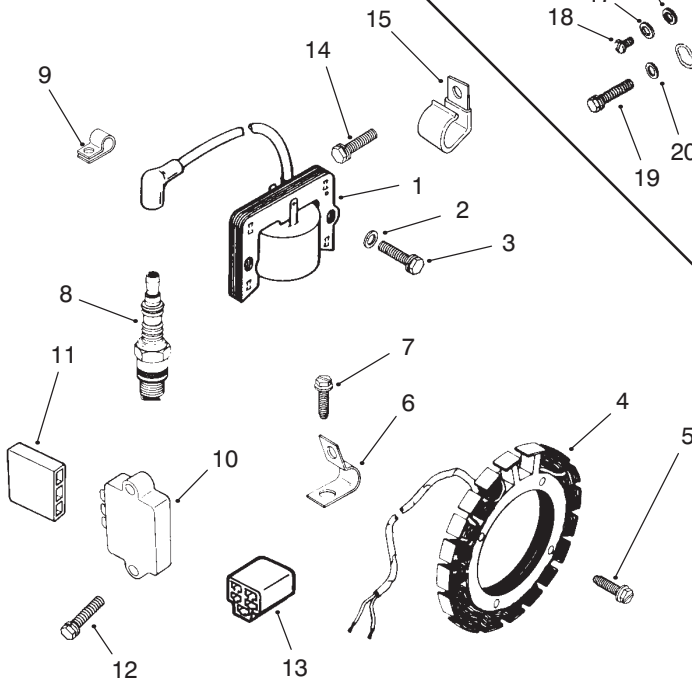
## Group 14 FUEL PUMP



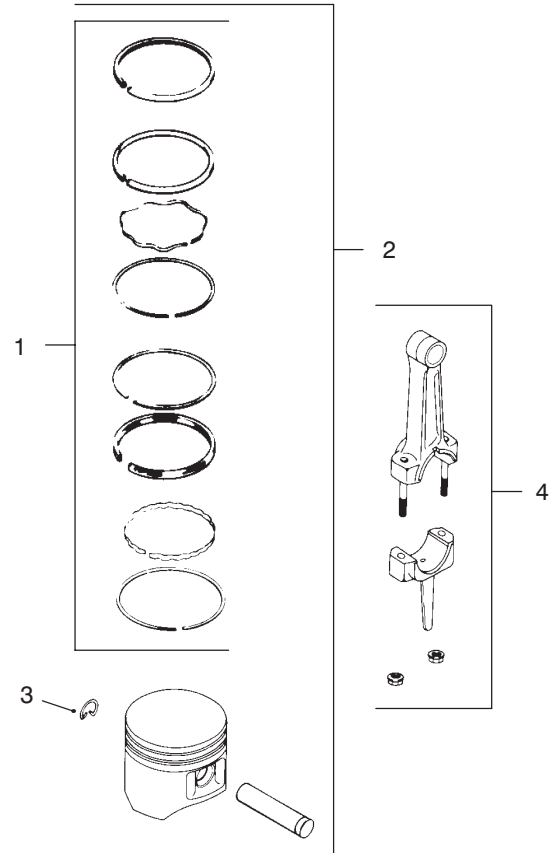
## Group 17 GOVERNOR



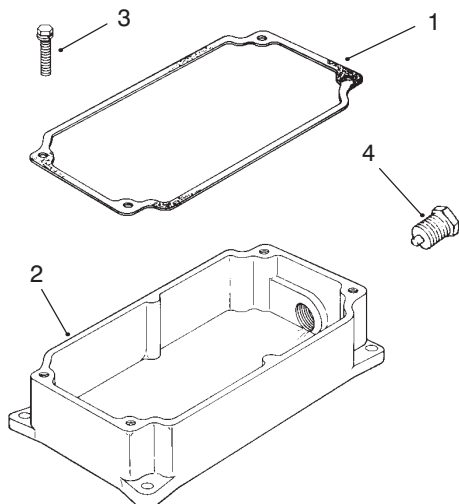
## Group 18 IGNITION



## Group 22 PISTON & ROD



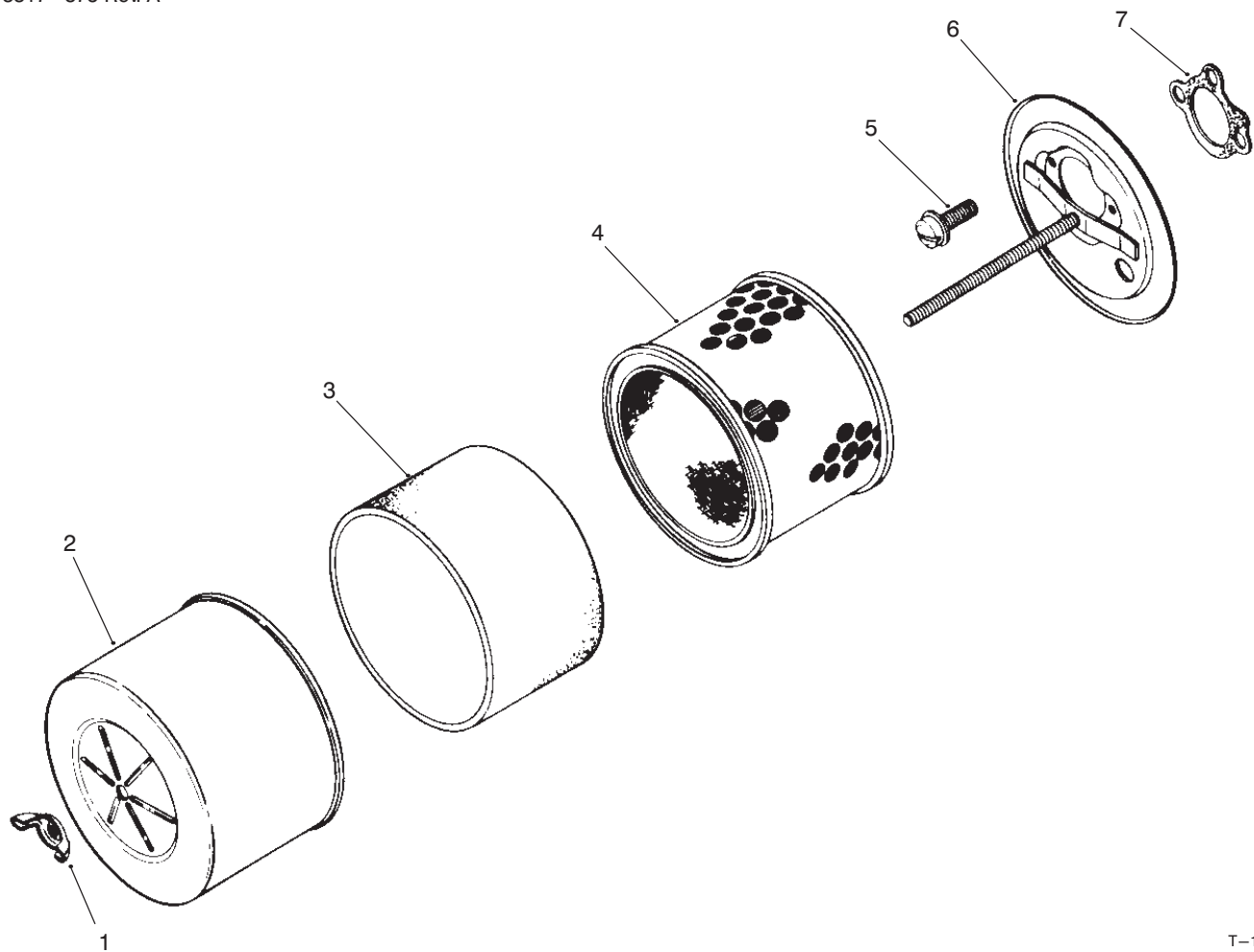
## Group 21 OIL PAN



# ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

| Ref. No. | Part No.   | Description                               | No. Used |
|----------|------------|-------------------------------------------|----------|
|          |            | <b>Fuel Pump</b>                          |          |
| 1        | 2504105    | Gasket — Fuel Pump                        | 1        |
| 2        | 240282     | Cover — Pump Pad                          | 1        |
| 3        | X-174-2    | Screw — Pozidriv F.H.                     | 2        |
|          |            | <b>Governor</b>                           |          |
| 1        | 235476     | Bushing — Governor Shaft                  | 1        |
| 2        | X-799-1    | Palnut                                    | 1        |
| 3        | 4709020    | Lever — Governor                          | 1        |
| 4        | X-776-1    | Screw — H.C.                              | 1        |
| 5        | 4715807    | Bushing — Natural Linkage Retaining       | 1        |
| 6        | 4707910    | Linkage Governor (Governor to Carburetor) | 1        |
| 7        | 2515809    | Bushing — Black Linkage Retaining         | 1        |
| 8        | X-400-80   | Spacer                                    | 1        |
| 9        | A-235256-S | Kit — Governor Cross Shaft                | 1        |
| 10       | A-235743-S | Kit — Governor Gear                       | 1        |
| 11       | 237022     | Washer — Thrust                           | 1        |
| 12       | 2546801    | Washer — Plain                            | 1        |
| 13       | 231355     | Pin — Governor Stop                       | 1        |
| 14       | 235496     | Spring — Governor                         | 1        |
| 15       | X-25-102   | Washer — Plain                            | 1        |
| 16       | 4875510    | Kit — Clamp (Incl. Ref. #17 & 18)         | 1        |
| 17       | X-25-58    | Washer                                    | 1        |
| 18       | X-102-3    | Screw                                     | 1        |
| 19       | X-132-9    | Screw H.C.                                | 1        |
| 20       | X-25-63    | Washer — Plain                            | 1        |
| 21       | 275690     | Washer — Wave                             | 1        |
| 22       | 236249     | Bracket — Speed Control                   | 1        |
| 23       | 235085     | Spacer                                    | 1        |
| 24       | 235084     | Bracket                                   | 1        |
| 25       | 4707901    | Linkage Choke (Carburetor to Lever)       | 1        |
| 26       | X-5-26     | Screw — H.C.                              | 1        |
| 27       | X-20-1     | Washer — Lock                             | 1        |
| 28       | X-25-63    | Washer — Plain                            | 1        |
| 29       | 4709006    | Lever — Choke Control                     | 1        |
| 30       | 275690     | Washer — Wave                             | 1        |
| 31       | 4711202    | Spacer                                    | 1        |
| 32       | X-76-2     | Nut — Hex                                 | 1        |
| 33       | X-67-51    | Screw                                     | 1        |
| 34       | 2546804    | Washer                                    | 1        |
| 35       | 4723702    | Clamp — Swivel                            | 1        |
| 36       | X-72-4     | Nut — Hex                                 | 1        |
| 37       | 232556     | Screw                                     | 1        |
| 38       | 4712609    | Bracket — Control                         | 1        |
| 39       | X-25-72    | Washer — Plain                            | 1        |

| Ref. No. | Part No. | Description                                                                                               | No. Used |
|----------|----------|-----------------------------------------------------------------------------------------------------------|----------|
| 40       | X-132-1  | Screw — H.C.                                                                                              | 1        |
|          |          | <b>Ignition</b>                                                                                           |          |
| 1        | 4758402  | Module Ignition                                                                                           | 1        |
| 2        | X-25-79  | Washer — Plain                                                                                            | 2        |
| 3        | X-156-1  | Screw — H.C.                                                                                              | 2        |
| 4        | 237878   | Kit — Stator (15 amp.)                                                                                    | 1        |
| 5        | X-67-51  | Screw — Stator Mounting                                                                                   | 4        |
| 6        | X-728-1  | Clip — Lead                                                                                               | 1        |
| 7        | X-67-59  | Screw — Hex Wash. Hd.                                                                                     | 1        |
| 8        | 235041-S | Spark Plug RH-10                                                                                          | 1        |
| 9        | 210281   | Clip — Hi-Tension Lead                                                                                    | 1        |
| 10       | 2575503  | Kit, Rectifier — Regulator                                                                                | 1        |
| 11       | 236602   | Connector — Female (3 Contact)                                                                            | 1        |
| 12       | X-132-5  | Screw — H.C.                                                                                              | 2        |
| 13       | 4115503  | Connector — Male (2 Contact)                                                                              | 1        |
| 14       | X-321-6  | Screw, Sems Hex.                                                                                          | 1        |
| 15       | 235173   | Clip, Cable                                                                                               | 1        |
|          |          | <b>NOT ILLUSTRATED</b>                                                                                    |          |
|          | 4751836  | Lead — Violet Rect.—Reg. to Connector 23" 14 Gauge Uninsulated Push on Tab Lead White Module to Connector | 1        |
|          | 4751843  | Lead — White, w/Diode (5" — 18 Gauge) Insulated Push on Tab — Insulink                                    |          |
|          |          | <b>Oil Pan</b>                                                                                            |          |
| 1        | 235057   | Gasket — Oil Pan                                                                                          | 1        |
| 2        | 235147   | Pan — Oil                                                                                                 | 1        |
| 3        | X-159-3  | Screw — H.C.                                                                                              | 4        |
| 4        | X-305-4  | Plug — Hex Hd.                                                                                            | 1        |
|          |          | <b>Piston &amp; Rod</b>                                                                                   |          |
| 1        | 4510810  | Ring Set (Std. & .003)                                                                                    | 1        |
| 1        | 4510811  | Ring Set (.010)                                                                                           | 1        |
| 1        | 4510812  | Ring Set (.020)                                                                                           | 1        |
| 1        | 4510813  | Ring Set (.030)                                                                                           | 1        |
| 2        | 4587411  | Piston w/Ring Set (Std.)                                                                                  | 1        |
| 2        | 4587412  | Piston w/Ring Set (.003)                                                                                  | 1        |
| 2        | 4587413  | Piston w/Ring Set (.010)                                                                                  | 1        |
| 2        | 4587414  | Piston w/Ring Set (.020)                                                                                  | 1        |
| 2        | 4587415  | Piston w/Ring Set (.030)                                                                                  | 1        |
| 3        | 4701801  | Retainer Piston Pin                                                                                       | 2        |
| 4        | 4506724  | Connecting Rod (Std.)                                                                                     | 1        |
| 4        | 4506725  | Connecting Rod (.010)                                                                                     | 1        |



T-1179

ENGINE ASSY. — KOHLER MODEL NO. M16S-711533

| Ref. No. | Part No. | Description                     | No. Used |
|----------|----------|---------------------------------|----------|
| 1        | X-276-7  | <b>Air Intake</b><br>Nut — Wing | 1        |
| 2        | 4508201  | Cover — Air Cleaner             | 1        |
| 3        | 4508301  | Precleaner — Element            | 1        |
| 4        | 4508302  | Element                         | 1        |

| Ref. No. | Part No. | Description        | No. Used |
|----------|----------|--------------------|----------|
| 5        | X-167-2  | Screw — F.H.       | 3        |
| 6        | 4509401  | Base — Air Cleaner | 1        |
| 7        | 275341   | Gasket — Air Horn  | 1        |
| *        | 2511307  | Decal              | 1        |

\*Not Illustrated

# TORO PART NUMBER INDEX

3318—375 Rev. A

| Part No. | Description                | Pg. Ref.<br>No. Qty. | Part No. | Description                 | Pg. Ref.<br>No. Qty. |
|----------|----------------------------|----------------------|----------|-----------------------------|----------------------|
| 3-0348   | Bushing                    | 5 27 6               | 27-3040  | Hose — Pump                 | 12 46 2              |
| 3-0348   | Bushing                    | 1 31 10              | 27-3040  | Hose — Pump/Inlet           | 23 10 2              |
| 3-0348   | Bushing                    | 7 35 6               | 27-3070  | Wire — Battery to Engine    | 21 44 1              |
| 3-1506   | Bushing                    | 2 60 12              | 27-6600  | Spacer — Rubber             | 21 28 4              |
| 3-4808   | Nut — Wing                 | 25 1 1               | 27-7980  | Front Reservoir Strap Assy. | 12 30 1              |
| 3-6657   | Clip — Skid                | 25 4 2               | 28-1400  | Battery                     | 20 65 1              |
| 3-6685   | Spring                     | 19 47 1              | 28-2120  | Wire — Battery to Ground    | 21 43 1              |
| 3-8516   | Anchor — Cable             | 19 22 1              | 28-3680  | Tire                        | 5 2 2                |
| 5-0698   | Key                        | 19 18 1              | 28-3680  | Tire                        | 19 42 1              |
| 5-0946   | Key — Square               | 22 1 1               | 28-4210  | Solenoid                    | 19 53 1              |
| 5-1226   | Washer                     | 7 28 A/R             | 28-8080  | Boot Terminal               | 20 69 1              |
| 5-1226   | Washer — Shim              | 3 89 2               | 29-9080  | Handle                      | 24 3 1               |
| 5-2653   | Pulley Assembly            | 10 13 4              | 29-9090  | Hose — Handle               | 24 4 1               |
| 5-3934   | Bolt                       | 19 34 1              | 36-4310  | Brush                       | 24 5 1               |
| 10-6060  | Pin — Ram Pivot            | 1 23 2               | 36-7250  | Grass Basket                | 8 58 3               |
| 10-6090  | Pin — Pivot                | 5 40 1               | 38-0410  | Nut — Hex.                  | 16 53 1              |
| 10-6090  | Pin — Pivot                | 8 56 1               | 38-0410  | Nut — Hex.                  | 18 59 1              |
| 10-6090  | Pin — Pivot                | 2 62 2               | 42-2680  | Race R. Detent              | 15 46 1              |
| 10-6110  | Pin — Hinge                | 1 28 2               | 43-5220  | Ring — Retaining            | 9 12 1               |
| 10-6821  | Drum Assy.                 | 5 51 1               | 43-5230  | Shaft with Clevis           | 9 13 1               |
| 10-6830  | Drive Stud                 | 19 39 4              | 43-5260  | Barrel w/Clevis & Ports     | 9 2 1                |
| 10-6870  | Hub — Wheel                | 5 5 2                | 43-8600  | Spring — Compression        | 20 61 1              |
| 10-7070  | Key — Engine               | 21 2 1               | 43-8610  | Guide — Spring & Ball Seat  | 20 62 1              |
| 10-7130  | Wire — Solenoid to Battery | 21 42 1              | 43-8620  | Guide — Switch Pin          | 20 59 1              |
| 10-7240  | Sleeve — Steering Pulley   | 10 42 1              | 43-8860  | Plunger — Switch            | 20 60 1              |
| 10-7370  | Tube Cap                   | 10 5 1               | 43-8870  | Boot — Switch               | 19 56 1              |
| 10-7820  | Hinge — Pivot              | 5 29 1               | 43-9071  | Switch Assembly             | 20 * 1               |
| 10-7820  | Hinge — Pivot              | 1 30 1               | 44-0870  | Camshaft — Rear             | 7 16 1               |
| 10-7820  | Pivot Hinge                | 7 38 1               | 44-2230  | Coupling — Rubber           | 21 27 1              |
| 10-7850  | Latch — Parking Brake      | 2 76 1               | 44-2500  | Hydraulic Oil Dye           | 13 * 1               |
| 10-7880  | Hinge — Upper, Park Brake  | 2 77 1               | 44-5560  | Filter Head — Hydraulic     | 12 48 1              |
| 10-7890  | Hinge — Lower, Park Brake  | 2 74 1               | 47-5320  | Lever — Cutting Control     | 7 14 1               |
| 10-7920  | Washer                     | 8 68 1               | 49-5410  | Box — Tool                  | 5 23 1               |
| 10-8100  | Strap — Brake Shaft        | 2 37 2               | 49-5430  | Rod — Control               | 5 19 1               |
| 10-8110  | Washer — Thrust            | 5 26 6               | 49-5450  | Plate — Cover               | 5 16 1               |
| 10-8110  | Washer — Thrust            | 2 51 18              | 49-5460  | Shield — Valve Cover L.H.   | 10 31 1              |
| 10-8110  | Washer—Thrust              | 7 36 6               | 49-5470  | Shield — Valve Cover R.H.   | 10 38 1              |
| 10-8120  | Bolt — Battery             | 19 55 2              | 49-5840  | Seat Support                | 10 20 1              |
| 10-8140  | Spring — Brake Latch       | 2 75 1               | 49-5880  | Shaft — Seat Support        | 10 34 1              |
| 10-8220  | Pad — Tool Box             | 5 22 1               | 49-5900  | Steering Wheel Assembly     | 10 1 1               |
| 11-0160  | Roller Shaft Screw Assy.   | 2 70 6               | 49-5910  | Arm Steering                | 10 10 1              |
| 12-3270  | Screw — Cap, Hex. Hd.      | 23 35 3              | 49-5970  | Bracket — Pulley            | 10 15 1              |
| 12-3270  | Screw — Pentafllo          | 7 10 1               | 49-6110  | Guard — Transfer Rod        | 3 88 1               |
| 12-3270  | Screw — Thread Forming     | 10 32 1              | 49-6120  | Pad — Footrest              | 1 15 1               |
| 12-7189  | Engine                     | 21 1 1               | 49-6200  | Lever — Cutting Control     | 1 2 1                |
| 12-9140  | Decal                      | 24 1 1               | 49-6220  | Bracket — Control Arm       | 7 17 1               |
| 18-1520  | Fuel Filter                | 19 4 1               | 49-6250  | Bracket — Traction Pivot    | 7 8 1                |
| 20-0070  | Tube                       | 25 5 1               | 49-6260  | Tube — Traction Pivot       | 8 55 1               |
| 20-0080  | Rod                        | 25 7 1               | 49-6290  | Shaft — Traction Pivot      | 7 9 1                |
| 20-0110  | Bracket — Alignment        | 25 2 1               | 49-6320  | Rod — Traction Control      | 7 7 1                |
| 21-8470  | Shaft — Yoke Roller        | 2 61 3               | 49-6430  | Pad — Pedal Reverse         | 7 6 1                |
| 22-6090  | Washer — Thrust            | 24 4 1               | 49-6440  | Pedal — Accelerator         | 7 2 1                |
| 23-0660  | Key Switch                 | 11 5 1               | 49-6470  | Pad — Pedal Forward         | 7 3 1                |
| 23-8840  | Puller — Bolt              | 24 3 1               | 51-0010  | Decal — Traction            | 10 39 1              |
| 23-8850  | Tube — Support             | 24 5 1               | 51-0350  | Pin — Seat Spring           | 19 46 1              |
| 23-8860  | Pin — Bearing Rplcmnt.     | 24 6 1               | 51-0780  | Seat Slider                 | 10 23 1              |
| 23-8880  | Driver — Bearing           | 24 1 2               | 51-0790  | Seat Adjuster               | 10 30 1              |
| 26-3790  | Nut — Lock                 | 5 4 2                | 52-1990  | Piston                      | 4 4 1                |
| 27-1930  | Pump Mount                 | 21 25 1              | 52-2720  | Roller Assembly             | 2 66 3               |
| 27-1960  | Coupling — Engine          | 21 31 1              | 52-5860  | Collar — Spool              | 18 51 1              |
| 27-1970  | Coupling — Pump            | 21 26 1              | 52-5880  | Ball — Steel                | 15 47 12             |
| 27-2040  | Hose                       | 12 27 1              | 52-5900  | Screw — Fillister Hd.       | 17 37 4              |
| 27-2150  | Mounting Pad — Engine      | 21 36 4              | 55-3570  | Gas Cap                     | 19 10 1              |
| 27-2270  | Rod — Brake Adjustment     | 2 36 2               | 55-8480  | Tank — Hydraulic            | 12 43 1              |
| 27-2320  | Bearing — Flange           | 1 7 2                | 56-2230  | Hose — Fuel Line            | 19 7 1               |
| 27-2320  | Side Flange — Bearing      | 7 13 2               | 56-2240  | Hose — Gas Line (Short)     | 19 5 1               |
| 27-2380  | Spacer — Filler Mount      | 12 20 1              | 56-2520  | Fitting — Fuel Shut-off     | 19 6 1               |
| 27-2400  | Reservoir Strap Assembly   | 12 39 1              | 56-7970  | Clamp — Tube                | 3 82 2               |
| 27-2420  | Felt Strap — Angle         | 12 38 2              | 56-7980  | Sleeve — Protective         | 23 29 3              |
| 27-2420  | Felt Strip                 | 12 41 2              | 56-7981  | Sleeve — Protective         | 23 3 3               |
| 27-2540  | Spacer — Hub               | 7 30 1               | 57-6140  | Clamp — Tube Side           | 5 17 4               |
| 27-2550  | Pin — Hinge                | 7 31 1               | 57-6220  | Link Connector              | 13 56 5              |
| 27-2830  | Decal — Parking Brake      | 2 81 1               | 57-7650  | Spring — Torsion            | 5 34 2               |

\*Not Illustrated

# TORO PART NUMBER INDEX (Cont.)

| Part No. | Description                  | Pg. Ref.<br>No. No. Qty. | Part No. | Description                | Pg. Ref.<br>No. No. Qty. |
|----------|------------------------------|--------------------------|----------|----------------------------|--------------------------|
| 57-7650  | Spring - Torsion             | 2 47 1                   | 70-9840  | Shoe & Lining Assembly     | 5 7 4                    |
| 57-7650  | Spring - Torsion             | 7 49 1                   | 70-9850  | Clip - Retainer            | 5 46 2                   |
| 58-6530  | Decal - Oil                  | 12 32 1                  | 70-9860  | Shaft - Cam                | 5 49 2                   |
| 59-9810  | Module                       | 11 13 1                  | 70-9870  | Plate - Backing, Brake     | 5 48 2                   |
| 61-9390  | Drum - Steering              | 19 25 1                  | 70-9880  | Spring                     | 5 50 4                   |
| 62-2110  | Muffler Assembly             | 21 10 1                  | 71-0990  | Fitting - One Way Orifice  | 13 65 1                  |
| 62-2130  | Control - Choke              | 11 20 1                  | 71-1500  | Brake Assembly             | 5 * 2                    |
| 62-2160  | Pulley - Front Steering      | 10 8 1                   | 71-1510  | Arm - Brake R.H.           | 5 28 1                   |
| 62-2170  | Washer-Thrust                | 19 31 1                  | 71-1510  | Lever - Brake              | 1 29 1                   |
| 62-2180  | Steering Cable               | 10 9 1                   | 71-3620  | Decal - Engine             | 21 46 1                  |
| 62-2190  | Washer - Special             | 19 17 1                  | 72-3850  | Seal - Ring                | 12 50 1                  |
| 62-2210  | Tank Base                    | 19 12 1                  | 72-4320  | Switch - Neutral           | 20 64 1                  |
| 62-2220  | Caster Fork                  | 19 32 1                  | 72-4790  | Hold Down - Battery        | 20 71 1                  |
| 62-2270  | Exhaust Pipe                 | 21 7 1                   | 74-3570  | Filter Element             | 12 49 1                  |
| 62-2300  | Traction Pump Assembly       | 21 17 1                  | 74-3580  | Gas Tank                   | 19 1 1                   |
| 62-2350  | Wire Harness - Column        | 21 39 1                  | 74-3730  | Spacer                     | 1 22 2                   |
| 62-2420  | Bar - Lift Arm (Center)      | 7 50 1                   | 74-3730  | Spacer                     | 19 35 2                  |
| 62-2440  | Arm - Lift, R.H.             | 5 31 2                   | 74-3810  | Load Plate Assembly        | 14 9 1                   |
| 62-2460  | Lift Arm - L.H.              | 2 52 1                   | 74-3830  | Hose - Pressure, Rear      | 23 1 1                   |
| 62-2470  | Hose - Gas Line (Long)       | 19 2 1                   | 75-9380  | Decal - Caution            | 10 3 1                   |
| 62-2570  | Breather Cap                 | 12 33 1                  | 75-9440  | Hub Assembly               | 19 40 1                  |
| 62-2580  | Spacer                       | 5 * 2                    | 75-9990  | Motor - Hydraulic          | 5 44 2                   |
| 62-2610  | Screen Assembly              | 12 36 1                  | 76-0800  | Seal Kit                   | 6 * 1                    |
| 62-2630  | Wire Assembly                | 21 45 1                  | 76-0810  | Housing Assembly           | 6 * 1                    |
| 62-2660  | Pad - Foot Step              | 1 26 1                   | 76-0840  | Manifold                   | 6 22 1                   |
| 62-2780  | Spark Arrestor Muffler       | 21 * 1                   | 76-0850  | Bearing - Thrust           | 6 12 1                   |
| 62-5070  | Decal - Danger               | 5 47 1                   | 76-0860  | Shaft - Coupling           | 6 11 1                   |
| 62-5070  | Decal - Danger               | 7 51 1                   | 76-0870  | Plate - Wear               | 6 18 1                   |
| 62-5070  | Decal - Danger               | 2 63 1                   | 76-0880  | Commutator Assembly        | 6 * 1                    |
| 62-5550  | Decal - Toro                 | 10 33 2                  | 76-0940  | End Cover Assembly         | 6 24 1                   |
| 63-3810  | Hose - Pressure R.H.         | 23 30 1                  | 76-0960  | Link - Drive               | 6 13 7                   |
| 63-3820  | Hose - Return R.H.           | 23 28 1                  | 76-0970  | Rotor Set                  | 6 * 1                    |
| 63-3830  | Hose - Return L.H.           | 23 24 1                  | 76-1010  | Screw - Cap, Hex. Hd.      | 6 14 1                   |
| 63-3840  | Hose - Return, Rear          | 23 2 1                   | 76-1720  | Gasket - Filler Cap        | 13 67 1                  |
| 63-3850  | Hose - Cylinder - Drop L.H.  | 23 17 1                  | 76-1850  | Clevis                     | 4 14 1                   |
| 63-3870  | Hose - Pressure L.H.         | 23 23 1                  | 76-1860  | Shaft with Clevis          | 4 7 1                    |
| 63-3880  | Hose - Cylinder, Lift R.H.   | 23 9 1                   | 76-2660  | Tube - Spacer              | 10 27 1                  |
| 63-3890  | Hose - Cylinder - Lift L.H.  | 23 18 1                  | 77-0480  | Screw - Accelerator Stop   | 8 60 1                   |
| 63-3900  | Hose - Pump #3               | 23 7 1                   | 82-5570  | Gasket - Exhaust           | 21 3 1                   |
| 63-3910  | Hose - Pump #2               | 23 13 1                  | 83-0060  | Lift Pivot                 | 2 64 1                   |
| 63-3920  | Hose - Pump #1               | 23 14 1                  | 83-0080  | Spring - Lift Pivot        | 2 65 1                   |
| 63-3930  | Hose Cylinder - Drop, Rear   | 23 6 1                   | 83-0140  | Foot Pedal                 | 3 85 1                   |
| 63-3940  | Hose - Pump #4               | 23 12 1                  | 83-0160  | Shaft - Brake              | 1 8 1                    |
| 63-3950  | Hose - Cylinder - Drop L.H.  | 23 22 1                  | 83-0540  | Rod - Accelerator          | 7 4 1                    |
| 63-4020  | Pressure Line                | 23 25 1                  | 83-0820  | Ammeter Assembly           | 11 4 1                   |
| 63-4030  | Pressure Line                | 23 27 1                  | 83-1200  | Tube - Traction Lower L.H. | 23 15 1                  |
| 63-4040  | Return Line - R.H.           | 23 26 1                  | 83-1700  | Bushing - Flange           | 7 27 3                   |
| 63-4050  | Fitting Traction Upper       | 12 10 2                  | 83-1890  | Switch - Ball              | 16 54 1                  |
| 63-4060  | Brazed Tube Assembly         | 12 8 1                   | 83-1890  | Switch - Ball              | 18 60 1                  |
| 63-4080  | Manifold Drain Orifice       | 12 2 1                   | 83-2460  | Hose - Traction Lower R.H. | 23 16 1                  |
| 63-4090  | 90° Fitting - Extended       | 13 54 1                  | 83-2590  | Bolt - Shoulder            | 3 91 1                   |
| 63-7400  | Washer - Flat                | 21 37 4                  | 83-7000  | Hydraulic Cylinder Assy.   | 7 37 1                   |
| 63-8360  | Key                          | 11 8 1                   | 84-2000  | Bracket - Brake            | 5 11 2                   |
| 63-8750  | Pin - Pivot                  | 5 36 2                   | 84-2203  | Control Valve              | 13 57 1                  |
| 63-8750  | Pin - Pivot                  | 2 48 1                   | 84-2203  | Control Valve Assembly     | 18 * 1                   |
| 63-8750  | Pin - Pivot                  | 7 48 1                   | 84-8290  | Cylinder - Hydraulic       | 1 16 2                   |
| 65-4860  | Head                         | 4 10 1                   | 85-6540  | Stud - Drive Type          | 5 6 8                    |
| 65-5871  | Tube                         | 10 43 1                  | 86-5360  | Seal Repair Kit            | 9 * 1                    |
| 65-5890  | Cap                          | 10 45 2                  | 86-5390  | Seal Repair Kit            | 4 * 1                    |
| 66-2950  | Hour Meter Assembly          | 11 2 1                   | 86-9820  | Pull Frame - Rear          | 8 57 1                   |
| 68-5100  | Rod - Seat                   | 10 49 1                  | 88-6900  | Plate - Footrest           | 8 67 1                   |
| 68-5310  | Clip Seat                    | 10 51 1                  | 88-9630  | Lift Pivot Bracket - R.H.  | 3 87 1                   |
| 68-5880  | Return Line - Man. to Filter | 23 20 1                  | 88-9640  | Lift Pivot Bracket - L.H.  | 1 13 1                   |
| 68-9910  | Panel - Control              | 11 12 1                  | 88-9660  | Shaft - Cutting Control    | 1 11 1                   |
| 68-9930  | Control - Throttle           | 11 21 1                  | 88-9670  | Lift Arm - Center          | 7 40 1                   |
| 68-9940  | Decal - Control Panel        | 11 14 1                  | 88-9680  | Wire Harness - Traction    | 21 41 1                  |
| 69-9760  | Plate - Cover                | 3 90 1                   | 88-9690  | Wire Harness - Frame       | 21 40 1                  |
| 70-2770  | Head                         | 9 10 1                   | 92-0585  | Pull Arm Assembly - R.H.   | 2 69 3                   |
| 70-2780  | Piston                       | 9 5 1                    | 92-0586  | Pull Arm Assembly - L.H.   | 2 59 3                   |
| 70-7130  | Traction Line - Upper L.H.   | 23 19 1                  | 92-1180  | Seat Assembly              | 10 * 1                   |
| 70-7150  | Traction Hose - Lower L.H.   | 23 5 1                   | 92-1192  | Frame                      | 7 19 1                   |
| 70-8600  | Traction Hose - Upper R.H.   | 23 4 1                   | 92-1194  | Plate - Traction           | 8 63 1                   |
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| 92-1199  | Decal — Greensmaster 3000     | 2 78 1                   | 237-58   | O-Ring                 | 12 3 A/R                 |
| 92-1699  | Cap — Battery (Flush)         | 20 78 1                  | 237-65   | O-Ring                 | 5 14 4                   |
| 92-1707  | Cap — Battery (Poison)        | 20 74 1                  | 237-65   | O-Ring                 | 13 66 4                  |
| 92-2545  | Seals — Spool                 | 16 * 1                   | 237-78   | O-Ring                 | 9 1 2                    |
| 92-2545  | Seals — Spool                 | 18 * 1                   | 237-78   | O-Ring                 | 1 17 4                   |
| 92-2546  | Wiper — Seal                  | 15 25 4                  | 237-79   | O-Ring                 | 12 6 8                   |
| 92-2546  | Wiper — Seal                  | 18 64 5                  | 237-79   | O-Ring                 | 21 20 1                  |
| 92-2547  | Plate — Seal Retainer         | 17 18 6                  | 237-80   | O-Ring                 | 5 12 4                   |
| 92-2547  | Plate — Seal Retainer         | 15 24 4                  | 237-80   | O-Ring                 | 12 13 2                  |
| 92-2548  | Seal — Spool (Single End Set) | 18 * 1                   | 237-81   | O-Ring                 | 12 1 1                   |
| 92-2548  | Seal — Spool Single           | 16 * 1                   | 237-100  | Grommet                | 11 19 1                  |
| 92-2549  | Seals — End Set #4 Only       | 18 * 1                   | 237-101  | O-Ring                 | 12 24 1                  |
| 92-3048  | Spring — Centering            | 15 41 1                  | 237-136  | Grommet                | 19 11 4                  |
| 92-3148  | Spring                        | 17 23 1                  | 237-148  | Seal — Quad Ring       | 19 30 1                  |
| 92-6533  | Kit — Cushion                 | 10 24 1                  | 237-149  | O-Ring — Seal          | 19 26 1                  |
| 92-6534  | Shell                         | 10 25 1                  | 242-50   | Nut — Wheel            | 5 1 8                    |
| 92-8795  | Body Assembly                 | 14 10 1                  | 242-50   | Nut — Wheel            | 19 44 4                  |
| 92-8796  | Pin — Dowel                   | 14 14 2                  | 2410-18  | Plug                   | 24 2 1                   |
| 92-8863  | Repair Kit                    | 14 * 1                   | 2411-32  | Ball Joint             | 8 62 2                   |
| 92-9176  | Pull Frame — L.H.             | 2 71 1                   | 2412-3   | Clamp — Hose           | 23 21 2                  |
| 92-9177  | Frame — Pull, R.H.            | 5 37 1                   | 2412-3   | Clamp — Hose           | 12 26 8                  |
| 93-1386  | Section #5 Assembly           | 18 * 1                   | 2412-36  | Clamp — Gas Line       | 20 77 2                  |
| 93-2554  | Bushing — Needle              | 12 17 1                  | 2412-41  | Clip                   | 11 16 1                  |
| 93-2555  | Fitting — Hydraulic Valve     | 13 55 1                  | 2412-41  | R-Clamp                | 23 34 3                  |
| 93-2556  | Needle Valve Assembly         | 13 * 1                   | 2412-76  | Muffler Clamp Assembly | 21 11 1                  |
| 93-3651  | Retainer — Boot               | 15 22 2                  | 2412-102 | R-Clamp                | 10 44 2                  |
| 93-3651  | Retainer — Boot               | 17 47 3                  | 2412-108 | Clamp — Hose           | 19 3 4                   |
| 93-3652  | Boot — Spool Assembly         | 16 * 2                   | 251-141  | Bearing — Ball         | 2 67 6                   |
| 93-3652  | Boot — Spool Assembly         | 18 * 3                   | 253-111  | Seal                   | 19 36 2                  |
| 93-7629  | Foot Pad — Brake              | 1 4 1                    | 254-78   | Cone                   | 19 37 2                  |
| 93-7630  | Foot Pad — Mow                | 1 6 1                    | 254-79   | Cup                    | 19 38 2                  |
| 93-7631  | Foot Pad — Lift               | 1 9 1                    | 256-2    | Bushing                | 10 14 4                  |
| 93-8075  | Decal — Mow/Lift              | 1 10 1                   | 256-2    | Bushing                | 8 54 2                   |
| 93-9346  | Clamp — Hose, Pressure        | 23 39 6                  | 256-113  | Bushing                | 10 6 2                   |
| 93-9347  | Clamp — Hose, Return          | 23 40 6                  | 256-155  | Bushing                | 10 37 2                  |
| 93-9934  | Handle — Traction             | 7 21 1                   | 256-219  | Bushing                | 8 65 2                   |
| 93-9936  | Bracket — Return, Traction    | 5 54 1                   | 256-251  | Bushing                | 7 22 2                   |
| 93-9937  | Asm. — Cable, Traction        | 5 57 1                   | 256-290  | Bushing                | 7 25 2                   |
| 93-9937  | Asm. — Cable, Traction        | 8 69 1                   | 281-1    | Plug — Oil             | 12 45 1                  |
| 94-2691  | Screw — HWH                   | 10 26 1                  | 282-2    | Yoke                   | 2 33 4                   |
| 94-2959  | Ball Joint Receiver Assy.     | 2 56 6                   | 282-2    | Yoke                   | 5 21 2                   |
| 94-3506  | Reel Motor                    | 13 51 3                  | 283-1    | Pin — Clevis           | 2 34 4                   |
| 94-3507  | Cover Assembly                | 14 4 1                   | 283-8    | Pin — Clevis           | 1 27 2                   |
| 94-3508  | Drive Shaft Assembly          | 14 7 1                   | 283-57   | Pin — Clevis           | 7 18 1                   |
| 94-3509  | Idler Gear Assembly           | 14 6 1                   | 283-62   | Pin — Clevis           | 5 42 2                   |
| 94-4248  | Collar Spool                  | 17 26 1                  | 283-62   | Pin — Clevis           | 8 70 1                   |
| 94-5434  | Spool #5                      | 17 1 1                   | 302-2    | Fitting — Grease       | 4 1 2                    |
| 94-5586  | Bar — Lift Arm L.H.           | 2 46 1                   | 302-5    | Fitting — Grease       | 7 26 1                   |
| 94-5588  | Bar — Arm Lift, R.H.          | 5 35 1                   | 302-5    | Fitting — Grease       | 19 33 1                  |
| 94-6960  | Clamp — Ammeter               | 11 24 1                  | 302-5    | Fitting — Grease       | 2 58 8                   |
| 217-60   | Rim                           | 5 3 2                    | 302-11   | Fitting — Grease       | 7 41 1                   |
| 217-60   | Rim                           | 19 41 1                  | 302-11   | Fitting — Grease 45°   | 2 38                     |
| 218-461  | Nut — Hex                     | 11 7 1                   | 302-60   | Fitting — Grease       | 1 20 4                   |
| 218-461  | Nut — Jam                     | 20 57 2                  | 302-60   | Fitting — Grease       | 5 30 1                   |
| 218-489  | Fuse Holder                   | 11 1 1                   | 302-60   | Fitting — Grease       | 7 39 1                   |
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| 233-50   | Knob                          | 11 9 2                   | 321-3    | Screw — Cap, Hex. Hd.  | 10 52 1                  |
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| 237-21   | O-Ring                        | 12 9 7                   | 321-18   | Screw — Cap, Hex Hd.   | 10 2 1                   |
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| 237-30   | O-Ring                        | 12 5 A/R                 | 322-1    | Screw — Cap, Hex. Hd.  | 5 38 1                   |
| 237-30   | O-Ring                        | 21 18 1                  | 322-2    | Screw — Cap, Hex Hd.   | 12 23 2                  |
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| 322-6    | Screw - Cap, Hex Hd.      | 21 30 4                  | 3256-24   | Washer - Flat              | 2 39 15                  |
| 322-14   | Screw - Cap, Hex Hd.      | 13 63 3                  | 3256-24   | Washer - Flat              | 7 44 2                   |
| 323-6    | Screw - Cap, Hex Hd.      | 19 14 2                  | 3256-24   | Washer - Flat              | 7 47 4                   |
| 323-6    | Screw - Cap, Hex Hd.      | 10 19 2                  | 3256-26   | Washer - Flat              | 10 16 4                  |
| 323-8    | Screw - Cap, Hex Hd.      | 21 16 2                  | 3256-26   | Washer - Flat              | 5 33 3                   |
| 323-10   | Screw - Cap, Hex Hd.      | 1 14 4                   | 3256-26   | Washer - Flat              | 2 43 1                   |
| 323-15   | Screw - Cap, Hex Hd.      | 21 34 1                  | 3256-26   | Washer - Flat              | 7 52 1                   |
| 323-20   | Screw - Cap, Hex Hd.      | 21 35 3                  | 3257-42   | Key - Woodruff             | 6 17 1                   |
| 324-6    | Screw - Cap, Hex Hd.      | 21 14 4                  | 3257-42   | Key - Woodruff             | 5 45 2                   |
| 325-3    | Screw - Cap, Hex Hd.      | 10 17 4                  | 3272-4    | Pin - Cotter               | 7 23 1                   |
| 325-11   | Screw - Cap, Hex Hd.      | 5 10 8                   | 3272-6    | Pin - Cotter               | 2 32 4                   |
| 3211-1   | Screw - Cap, Hex Hd.      | 7 42 2                   | 3272-10   | Pin - Cotter               | 5 43 2                   |
| 3217-5   | Nut - Hex                 | 19 29 2                  | 3272-10   | Pin - Cotter               | 8 71 1                   |
| 3217-6   | Nut - Full                | 5 56 1                   | 3272-11   | Pin - Cotter               | 1 21 3                   |
| 3217-6   | Nut - Hex                 | 21 9 2                   | 3272-11   | Pin - Cotter               | 5 32 2                   |
| 3217-7   | Nut - Hex                 | 15 33 3                  | 3272-11   | Pin - Cotter               | 10 48 1                  |
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| 3218-13  | Nut - Jam                 | 19 54 2                  | 3274-52   | Screw - Hex, Socket Hd.    | 17 45 6                  |
| 3219-2   | Nut - Full                | 5 53 1                   | 3274-54   | Screw - Set, Socket Hd.    | 12 28 2                  |
| 3219-2   | Nut - Hex.                | 25 6 1                   | 3274-70   | Screw - Hex, Socket Hd.    | 15 1 2                   |
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| 3220-2   | Nut - Hex                 | 2 35 4                   | 3290-317  | Washer - Spring            | 2 68 6                   |
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| 3234-1   | Screw - Hex. Flange Hd.   | 1 5 4                    | 3296-16   | Nut - Lock                 | 10 40 1                  |
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| 3253-3   | Washer - Lock             | 18 57 4                  | 3296-29   | Nut - Lock                 | 7 45 2                   |
| 3253-3   | Washer - Lock             | 2 73 2                   | 3296-29   | Nut - Lock                 | 5 55 1                   |
| 3253-4   | Washer - Lock             | 21 8 2                   | 3296-29   | Nut - Lock                 | 20 76 1                  |
| 3253-4   | Washer - Lock             | 19 16 4                  | 3296-39   | Nut - Lock                 | 10 11 2                  |
| 3253-4   | Washer - Lock             | 12 19 3                  | 3296-39   | Nut - Lock                 | 19 27 2                  |
| 3253-4   | Washer - Lock             | 10 47 2                  | 3296-39   | Nut - Lock                 | 21 33 4                  |
| 3253-6   | Washer - Lock             | 21 13 4                  | 3296-39   | Nut - Lock                 | 2 44 1                   |
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| 3254-5   | Washer - Lock             | 11 6 1                   | 32105-8   | Screw - Machine, Rd. Hd.   | 11 22 4                  |
| 3254-6   | Washer - Lock             | 7 43 2                   | 32108-100 | Screw - Mach. Phillips Hd. | 5 15 3                   |
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| 3256-22  | Washer - Flat             | 19 52 2                  | 32128-20  | Nut - Hex                  | 12 18 3                  |
| 3256-22  | Washer - Flat             | 20 72 2                  | 32128-20  | Nut - Hex                  | 8 59 1                   |
| 3256-22  | Washer - Flat             | 2 80 1                   | 32128-20  | Nut - Lock                 | 11 10 1                  |
| 3256-23  | Washer - Flat             | 21 12 6                  | 32128-20  | Nut - Lock, Flange         | 25 3 1                   |
| 3256-23  | Washer - Flat             | 12 21 5                  | 32141-111 | Nut - Hex Hd. Flange       | 3 83 1                   |
| 3256-23  | Washer - Flat             | 10 22 6                  | 32144-1   | Screw - Thread Forming     | 21 38 8                  |
| 3256-23  | Washer - Flat             | 7 32 2                   | 32144-14  | Screw - Cap, Hex. Hd.      | 8 66 1                   |
| 3256-23  | Washer - Flat             | 20 75 1                  | 32144-34  | Screw                      | 12 35 6                  |
| 3256-23  | Washer - Plain            | 1 24 6                   | 32149-2   | Nut - Lock                 | 19 51 2                  |

\*Not Illustrated

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| 32149-2  | Nut — Lock, Keys          | 11 15 1                  | 353-733  | Spacer — Bonnet              | 17 19 2                  |
| 32149-7  | Nut — Lock                | 11 23 1                  | 353-737  | Ball                         | 18 63 1                  |
| 32151-41 | Ring — Retaining          | 14 13 1                  | 353-754  | Bonnet — R. Detent           | 15 42 1                  |
| 32152-10 | Nut                       | 9 3 1                    | 353-758  | Seal — O-Ring                | 15 31 1                  |
| 32152-10 | Nut—Lock                  | 4 3 1                    | 353-760  | Body Relief                  | 15 30 1                  |
| 3333-975 | Cable Tie                 | 23 31 1                  | 353-762  | Spud — Detent Out            | 15 50 1                  |
| 340-6    | Fitting — Straight        | 21 19 1                  | 353-763  | Cap — Adjustment             | 15 44 1                  |
| 340-14   | Fitting                   | 5 13 4                   | 353-766  | Relief WH (2000) PSI Assy.   | 16 * 1                   |
| 340-16   | 90° Fitting               | 12 4 1                   | 353-768  | Section #1 Complete          | 16 * 1                   |
| 340-18   | 90° Elbow                 | 12 12 1                  | 353-772  | Left End Cover               | 15 34 1                  |
| 340-77   | 90° Elbow                 | 13 52 3                  | 353-780  | Positioner — R. Detent (Out) | 16 * 1                   |
| 340-77   | 90° Fitting               | 21 21 1                  | 353-808  | Collar — Spring              | 17 24 1                  |
| 340-87   | 45° Fitting               | 21 23 2                  | 353-830  | O-Ring                       | 17 25 1                  |
| 340-87   | 45° Fitting               | 13 58 2                  | 353-831  | Spring                       | 17 21 1                  |
| 340-92   | Fitting — Orifice Str.    | 23 32 1                  | 353-833  | Positioner Assembly          | 18 * 1                   |
| 340-92   | Fitting — Straight        | 1 18 1                   | 353-835  | Seals — Section Set          | 16 * 1                   |
| 340-98   | 90° Elbow                 | 13 59 3                  | 353-835  | Seals — Section Set          | 18 * 1                   |
| 340-101  | 45° Fitting               | 12 16 2                  | 353-837  | Section #2 Complete          | 16 * 1                   |
| 340-103  | 45° Elbow Adjustable      | 23 11 1                  | 353-839  | Positioner — DI (SPL) Assy.  | 16 * 1                   |
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| 353-302  | O-Ring                    | 15 10 3                  | 353-845  | Sleeve — Detent              | 17 41 1                  |
| 353-303  | Ring — Backup             | 17 8 6                   | 353-846  | Spud — DI (SPL)              | 17 40 1                  |
| 353-303  | Ring — Backup             | 15 9 6                   | 353-847  | Bonnet (SPL)                 | 17 38 1                  |
| 353-304  | Spring                    | 15 28 1                  | 353-848  | O-Ring                       | 17 14 1                  |
| 353-305  | O-Ring                    | 17 5 5                   | 353-849  | Sleeve                       | 17 39 1                  |
| 353-305  | O-Ring                    | 15 8 4                   | 353-850  | O-Ring                       | 18 56 1                  |
| 353-306  | Ring — Backup             | 17 4 5                   | 353-851  | Body — Relief CP—RC Mod.     | 15 12 1                  |
| 353-306  | Ring — Backup             | 15 7 4                   | 353-851  | Body — Relief CP—RC Mod.     | 17 29 2                  |
| 353-328  | Washer — Shim             | 15 15 A/R                | 353-853  | Bolt — Hex Hd.               | 17 10 3                  |
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| 353-329  | Washer — Shim             | 15 16 A/R                | 353-855  | Spring                       | 17 44 1                  |
| 353-329  | Washer — Shim             | 17 33 A/R                | 353-884  | Key — Woodruff               | 22 11 4                  |
| 353-330  | Washer — Shim             | 15 17 A/R                | 353-886  | Ring — Retaining             | 22 12 2                  |
| 353-330  | Washer — Shim             | 17 34 A/R                | 353-916  | Flange Assembly              | 22 3 1                   |
| 353-331  | O-Ring                    | 15 29 1                  | 353-917  | O-Ring                       | 22 4 1                   |
| 353-334  | Cap — Relief              | 15 19 2                  | 353-918  | Body Assembly                | 22 5 1                   |
| 353-334  | Cap — Relief              | 17 36 2                  | 353-921  | Plate Assembly               | 22 13 1                  |
| 353-392  | Seal — Relief Poppet PTFE | 15 13 2                  | 353-922  | Seal Ring — Pump             | 22 14 8                  |
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| 353-417  | Collar Spring             | 15 40 2                  | 353-952  | Ring — Backup                | 15 32 1                  |
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| 353-481  | Plug — Load Check         | 15 5 3                   | 353-957  | Seal — Lip                   | 17 15 6                  |
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| 353-531  | Poppet Assy.              | 15 14 2                  | 353-963  | Gasket                       | 12 37 2                  |
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| 353-564  | 90° Fitting               | 13 53 1                  | 353-966  | Screw — Cap, Hex Hd.         | 22 18 4                  |
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| 353-575  | Boot — Dust Cap           | 17 46 3                  | 353-968  | Dowel                        | 22 21 6                  |
| 353-579  | Spring                    | 15 45 1                  | 353-969  | Gear Plate — 30B             | 22 15 3                  |
| 353-599  | Pin — Dowel               | 14 3 2                   | 353-970  | Dowel                        | 22 6 2                   |
| 353-600  | Washer — Flat             | 22 19 4                  | 353-971  | Gear Plate — Pump            | 22 7 1                   |
| 353-642  | Relief — RC Mod.          | 16 * 2                   | 353-972  | Shaft — Drive                | 22 10 1                  |
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\*Not Illustrated

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit which is not reflected in your manual see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

IDENTIFICATION AND ORDERING

MODEL AND NUMBERS

The Greensmaster 3000 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Greensmaster 3000 supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer supply the following information:

- 1. Model and serial number of the Greensmaster 3000.
- 2. Part number description and the quantity of part(s) desired.

**NOTE:** Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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