# Parts & Service Manual

## 1990

### R3-10B402 110-4e 4-SPEED
### R3-12B601 112-6e 6-SPEED

899001R1

TORO®

Wheel Horse

Tractors & Riding Mowers

# INTRODUCTION PAGE

## 1. How to use this parts manual

1.1. The 100-Series parts manual is divided into major sections arranged in the sequence as outlined on the following page. Major sections are subdivided into smaller groups of parts, each with its own illustration and illustration reference numbers.

1.2. Illustrated items are numerically keyed to the parts listing on the facing page. Illustrations are repeated when the parts list is too long for one page. Figure numbers are located at the bottom of each illustration and also at the beginning of each description column. Item numbers are numerically keyed to their respective illustrations.

1.3. When an (X) appears in the quantity (Qty) column use only if applicable, or as required to meet tolerances.

## 2. To locate parts

When function, use or location is known:
Refer to the List of Illustrations to locate the proper illustration.

## 3. Service Information

3.1. Special notes recorded on illustrations:
Refer to operator's manuals and service bulletins for detailed information.

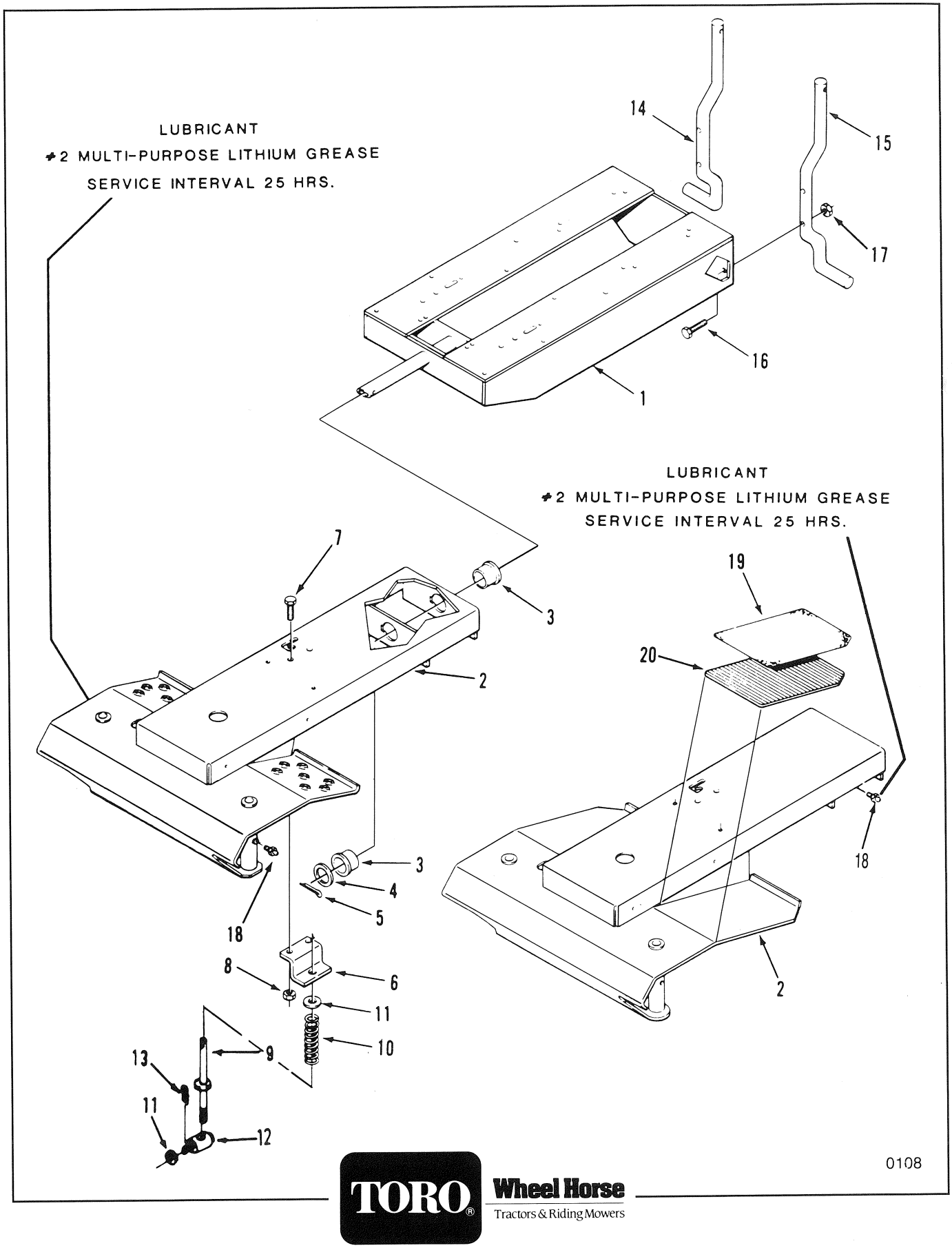
3.2. Standard torque values for fasteners:
Refer to Section 13 - Torque Specifications.

3.3. Paint:
Refer to Section 13 - Paint

# LIST OF ILLUSTRATIONS




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TORO® Wheel Horse Tractors & Riding Mowers

Figure 1-1 Frame

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 1-1<br>FRAME | |
| 1 | 112502 | Rear Frame | 1 |
| 2 | 111303 | Front Frame | 1 |
| 3 | 110311 | Flange Bearing | 2 |
| 4 | 110426 | Special Washer | X |
| 5 | 932037 | Cotter Pin 3/6 x 1-3/4 | 1 |
| 6 | 110406 | Mower Hanger Bracket | 1 |
| 7 | 908033 | Bolt 3/8-16 X 7/8 | 2 |
| 8 | 915663 | E.S. Nut 3/8-16 | 2 |
| 9 | 112922 | Rod Assembly | 1 |
| 10 | 109229 | Compression Spring | 1 |
| 11 | 920094 | Washer 3/8 SAE | 2 |
| | 915113 | Nut 3/8-16 (Not illustrated) | 1 |
| 12 | 110656 | Trunnion | 1 |
| 13 | 932008 | Cotter Pin 3/32 x 3/4 | 1 |
| 14 | 111088 | Rear Rod RH | 1 |
| 15 | 111087 | Rear Rod LH | 1 |
| 16 | 911450 | Bolt 5/16-18 x 1-1/2 HHCS 5/16 - 18 x 3/4 | 4 |
| 17 | 112536 | Locknut 5/16-18 | 4 |
| 18 | MW1455 | Grease Fitting | 2 |
| 19 | 111300 | Sandpaper Footrest Mat RH 110-4 | 1 |
| | 111299 | Sandpaper Footrest Mat LH 110-4 | 1 |
| 20 | 111324 | Rubber Footrest Mat RH 112-6 | 1 |
| | 111325 | Rubber Footrest Mat LH 112-6 | 1 |

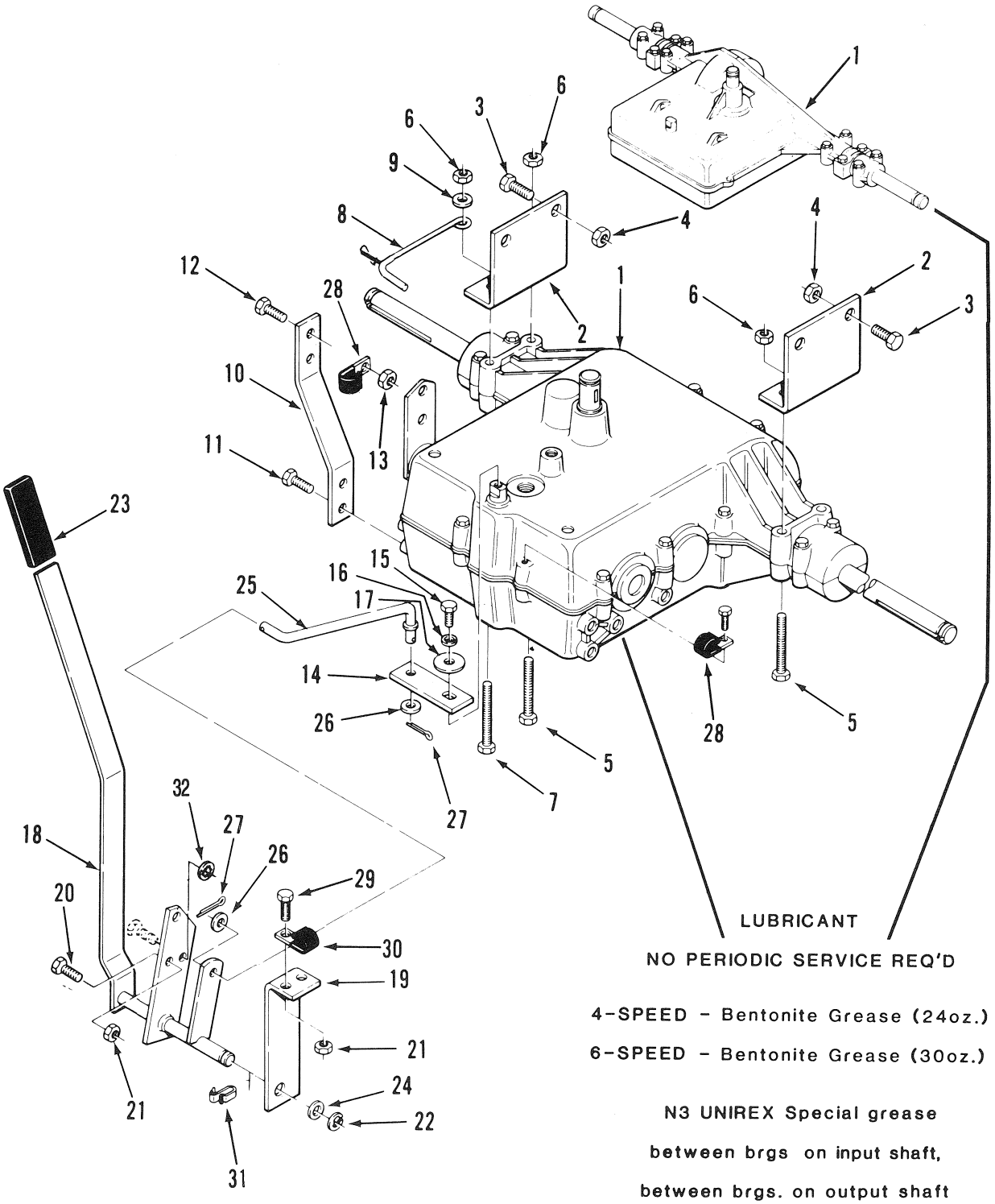



Figure 2-1 Mechanical Transmission

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 2-1<br>MECHANICAL TRANSMISSION | |
| 1 | 112137* | Peerless Transmission (900-028) 110-4 | 1 |
| | 112102* | Peerless Transmission (920-007) 112-6 | 1 |
| 2 | 110326 | Rear Axle Bracket | 2 |
| 3 | 913183 | Bolt 3/8-16 x 7/8 Grd 5 | 4 |
| 4 | 915663 | E.S. Nut 3/8-16 | 4 |
| 5 | 908025 | Bolt 5/16-18 x 2-1/2 | 3 |
| 6 | 915662 | E.S. Nut 5/16-18 | 4 |
| 7 | 908026 | Bolt 5/16-18 x 2-3/4 | 1 |
| 8 | 110848 | Brake Stop Rod | 1 |
| 9 | 920008 | Washer 5/16 SAE | 5 |
| 10 | 110836 | Torque Strap 110-4 | 1 |
| | 112138 | Torque Strap 112-6 | 1 |
| 11 | 926720 | Swage Form Hex Bolt 5/16-18 x 3/4 | 2 |
| 12 | 908017 | Bolt 5/15-18 x 3/4 | 2 |
| 13 | 915662 | E.S. Nut 5/16-18 | 2 |
| 14 | 110330 | Lower Shift Lever | 1 |
| 15 | 908153 | Eslok Bolt 1/4-28 x 7/8 | 1 |
| 16 | 920081 | Lockwasher 1/4 | 1 |
| 17 | 104869 | Special Washer | 1 |
| 18 | 111109 | Shift Lever | 1 |
| 19 | 111106 | Shift Support | 1 |
| 20 | 908017 | Bolt 5/16-18 x 3/4 | 4 |
| 21 | 915662 | E.S. Nut 5/16-18 | 4 |
| 22 | 5701 | E-Ring | 1 |
| 23 | 102597 | Grip | 1 |
| 24 | 920259 | Washer 3/8 SAE | X |
| 25 | 112289 | Lower Shift Rod 110-4 | 1 |
| | 112128 | Lower Shift Rod 112-6 | 1 |
| 26 | 920008 | Washer 5/16 SAE | 2 |
| 27 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 28 | 111357 | "J" Clip (1/4) Bolt Size) | 2 |
| 29 | 913160 | Bolt 5/16-18 x 3/4 Grd 5 | 2 |
| 30 | 111392 | "J" Clip (5/16 Bolt Size) | 1 |
| 31 | 519337 | Clip | 1 |
| 32 | 920155 | Internal Tooth Lockwasher 5/16 | 1 |

* Transmission and transmission parts are available through manufacturer's distribution system, using model and spec. numbers shown above. WHEEL HORSE part numbers are listed for cross reference purposes only; transmission and transmission parts are not available through the WHEEL HORSE distribution system.

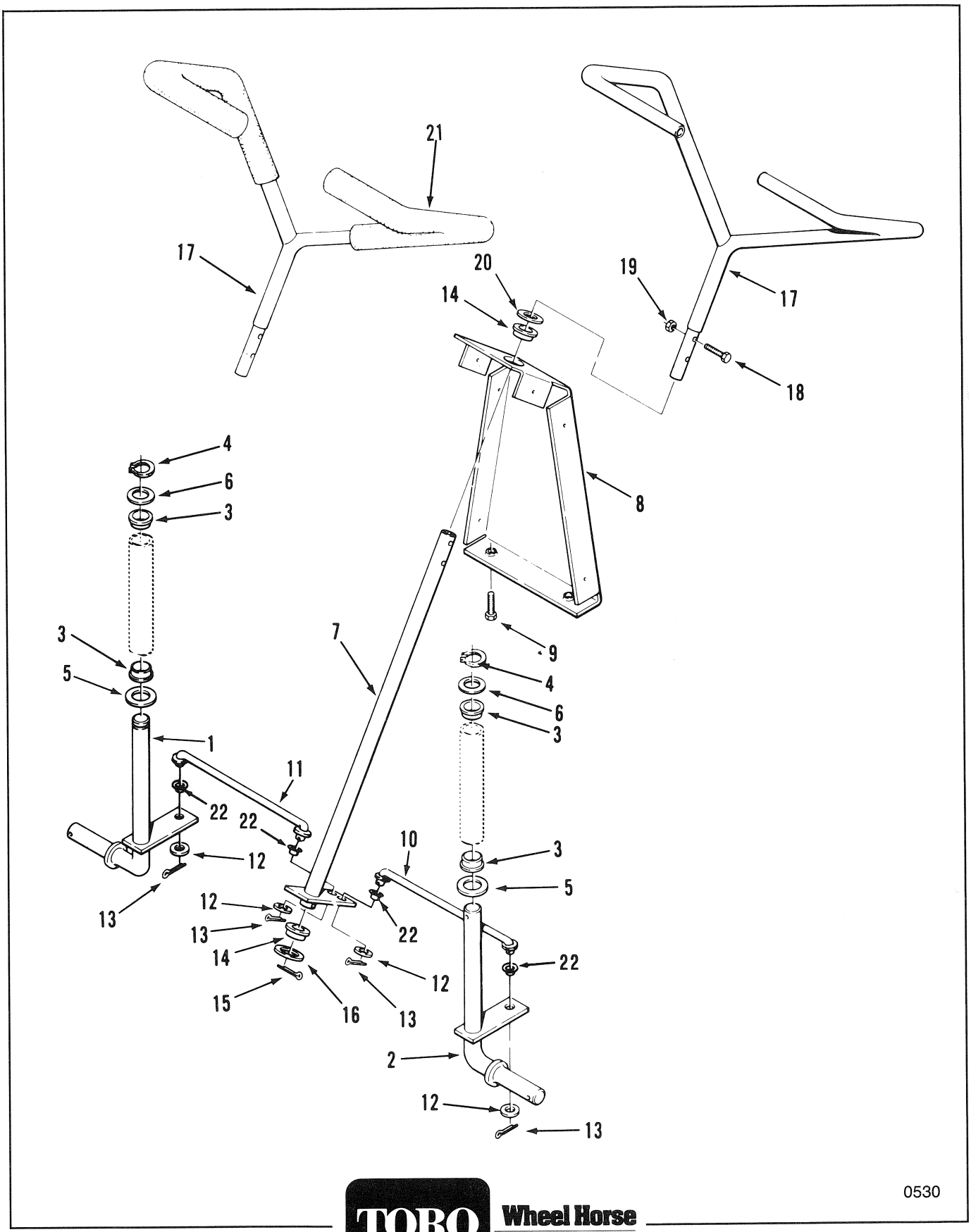



Figure 3-1 Front Axle and Steering

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 3-1<br>FRONT AXLE AND STEERING | |
| 1 | 113384 | Spindle RH | 1 |
| 2 | 113383 | Spindle LH | 1 |
| 3 | 111102 | Bushing | 4 |
| 4 | 104822 | Retaining Ring 3/4 | 2 |
| 5 | 920015 | Washer 3/4 SAE | 2 |
| 6 | 1278 | Shim Washer .050 | X |
| 7 | 112106 | Steering Shaft | 1 |
| 8 | 110320 | Upper Steering Support | 1 |
| 9 | 926720 | Swage Form Bolt 5/26-18 x 3/4 | 2 |
| 10 | 112129 | Tie Rod LH | 1 |
| 11 | 112130 | Tie Rod RH | 1 |
| 12 | 920237 | Special Washer | 4 |
| 13 | 932008 | Cotter Pin 3/32 x 3/4 | 4 |
| 14 | 110324 | Bushing | 2 |
| 15 | 932018 | Cotter Pin 1/8 x 1-1/4 | 1 |
| 16 | 109262 | Washer | 1 |
| 17 | 112303 | Steering Wheel 110-4 | 1 |
| | 110889 | Steering Wheel 112-6 | 1 |
| 18 | 908006 | Bolt 1/4 x 1-1/4 | 2 |
| 19 | 915661 | E.S. Nut 1/4-20 | 2 |
| 20 | 920215 | Special Washer | X |
| 21 | 110892 | Steering Wheel Grips 112-6 | 2 |
| 22 | 112108 | Bushing | 4 |

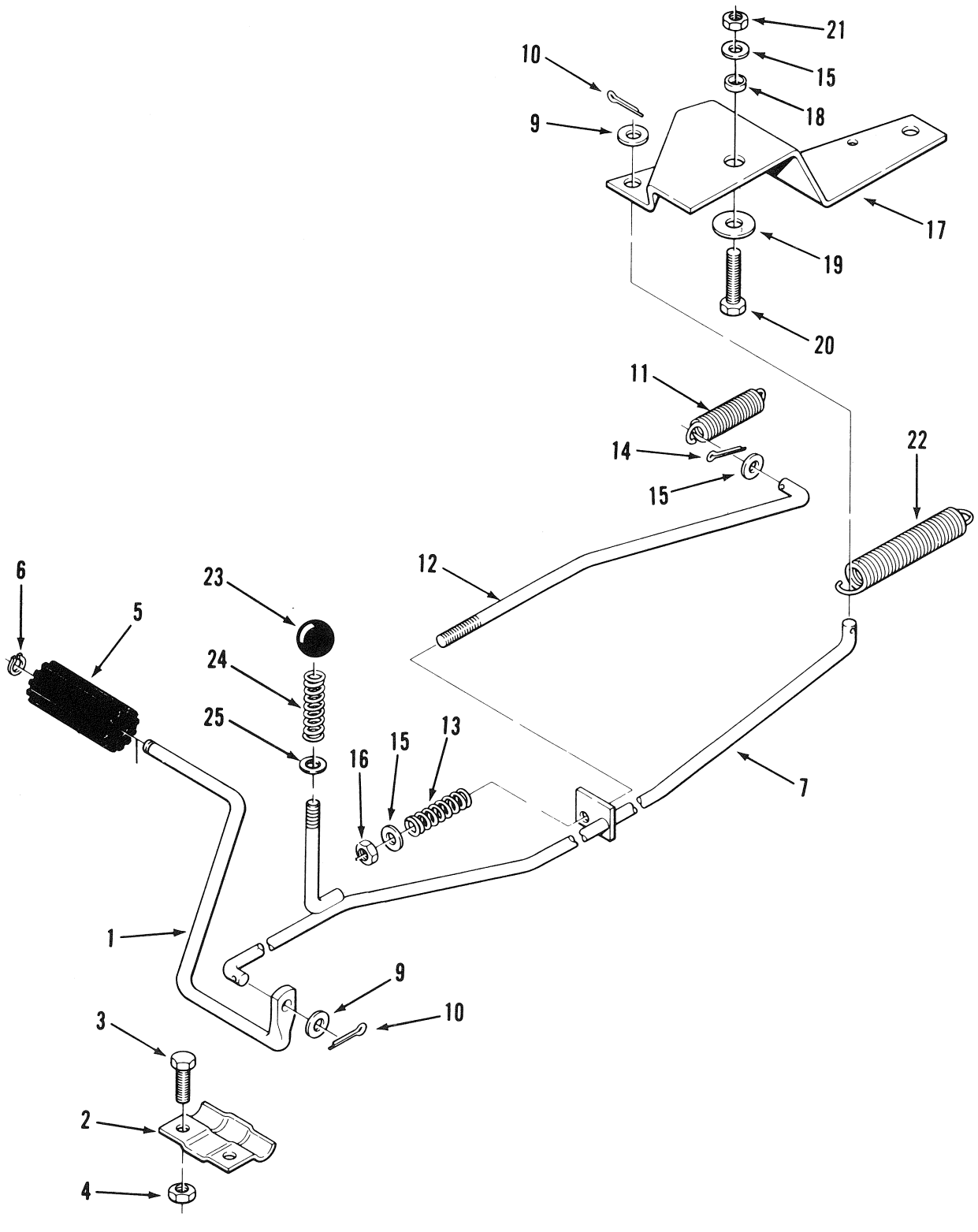



Figure 4-1 Clutch, Brake Linkage

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 4-1<br>CLUTCH, BRAKE LINKAGE | |
| 1 | 110340 | Clutch/Brake Pedal Rod | 1 |
| 2 | 108861 | Pedal Support Bracket | 1 |
| 3 | 908032 | Bolt 3/8-16 x 3/4 | 2 |
| 4 | 915663 | E.S. Nut 3/8-16 | 2 |
| 5 | 108854 | Clutch/Brake Pedal Pad | 1 |
| 6 | 106649 | Grip Ring | 1 |
| 7 | 111715 | Clutch Rod | 1 |
| 9 | 920009 | Washer 3/8 SAE | 2 |
| 10 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 11 | 103628 | Extension Spring | 1 |
| 12 | 110911 | Brake Rod | 1 |
| 13 | 109832 | Brake Spring | 1 |
| 14 | 932008 | Cotter Pin 3/32 x 3/4 | 1 |
| 15 | 920009 | Washer 3/8 SAE | 3 |
| 16 | 915663 | E.S. Nut 3/8-16 | 1 |
| 17 | 110363 | Clutch Traction Lever | 1 |
| 18 | 111108 | Spacer | 1 |
| 19 | 2844 | Special Washer | 1 |
| 20 | 908035 | Bolt 3/8-16 x 1/4 | 1 |
| 21 | 915663 | E.S. Nut 3/8-16 | 1 |
| 22 | 111159 | Extension Spring | 1 |
| 23 | 111070 | Round Knob | 1 |
| 24 | 104841 | Spring | 1 |
| 25 | 107675 | Nylon Washer | 1 |

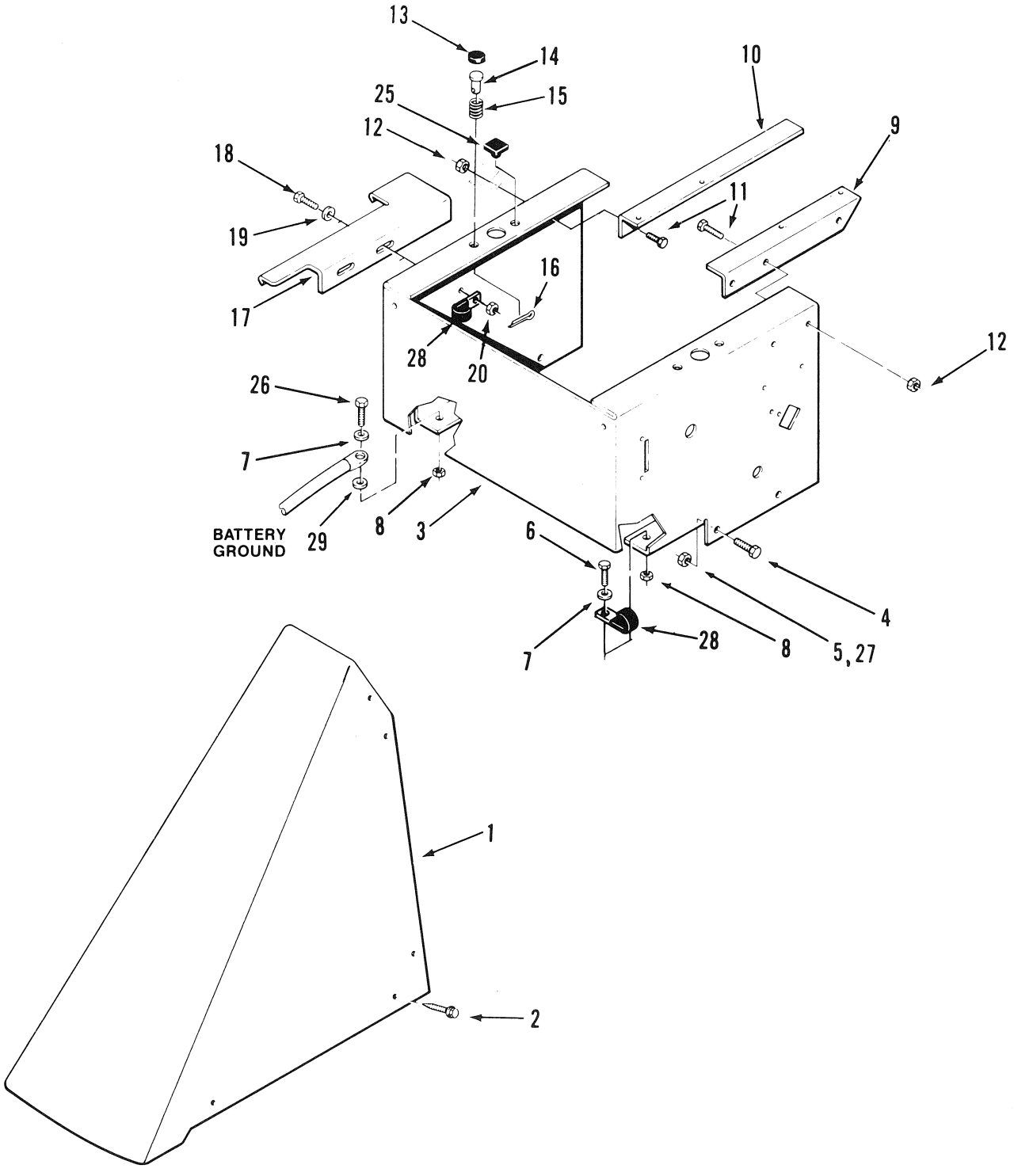



Figure 5-1 Sheet Metal

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 5-1<br>SHEET METAL | |
| 1 | 110323 | Steering Shroud Cover | 1 |
| 2 | 110430 | Hex Washer Head Self Tapping Screw | 10 |
| 3 | 114283 | Seat Support | 1 |
| 4 | 913183 | Bolt 3/8-16 x 7/8 GRD 5 | 4 |
| 5 | 915663 | E.S. Nut 3/8-16 | 3 |
| 6 | 908017 | Bolt 5/16-18 X 3/4 | 1 |
| 7 | 920008 | Washer 5/16 SAE | 2 |
| 8 | 915662 | E.S. Nut 5/16-18 | 2 |
| 9 | 119950 | Fuel Tank Support Angle LH 112-6 | 1 |
| | 110353 | Fuel Tank Support Angle LH 110-4 | 1 |
| 10 | 119960 | Fuel Tank Support Angle RH 112-6 | 1 |
| | 110354 | Fuel Tank Support Angle RH 110-4 | 1 |
| 11 | 908015 | Bolt 5/16-18 X 1/2 | 4 |
| 12 | 915112 | Eslok Nut 5/16-18 | 4 |
| 13 | 106331 | Neoprene Cup | 2 |
| 14 | 106449 | Pin | 2 |
| 15 | 104841 | Spring | 2 |
| 16 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 17 | 110470 | Shift Plate | 1 |
| 18 | 908017 | Bolt 5/16-18 x 3/4 | 2 |
| 19 | 920008 | Washer 5/16 SAE | 2 |
| 20 | 915662 | E.S. Nut 5/16-18 | 2 |
| 25 | 111071 | Bumper | 2 |
| 26 | 908019 | Ground Wire Bolt 5/16-18 x 1 | 1 |
| 27 | 915113 | Eslok Nut 3/8-16 | 1 |
| 28 | 8830 | ,,J'' Clip (3/8 Bolt Size) | 1 |
| 29 | 920155 | Internal Tooth Lockwasher 5/16 | 1 |

LUBRICANT

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110 - 1 1/8 QTS.

112 - 1 1/2 QTS.

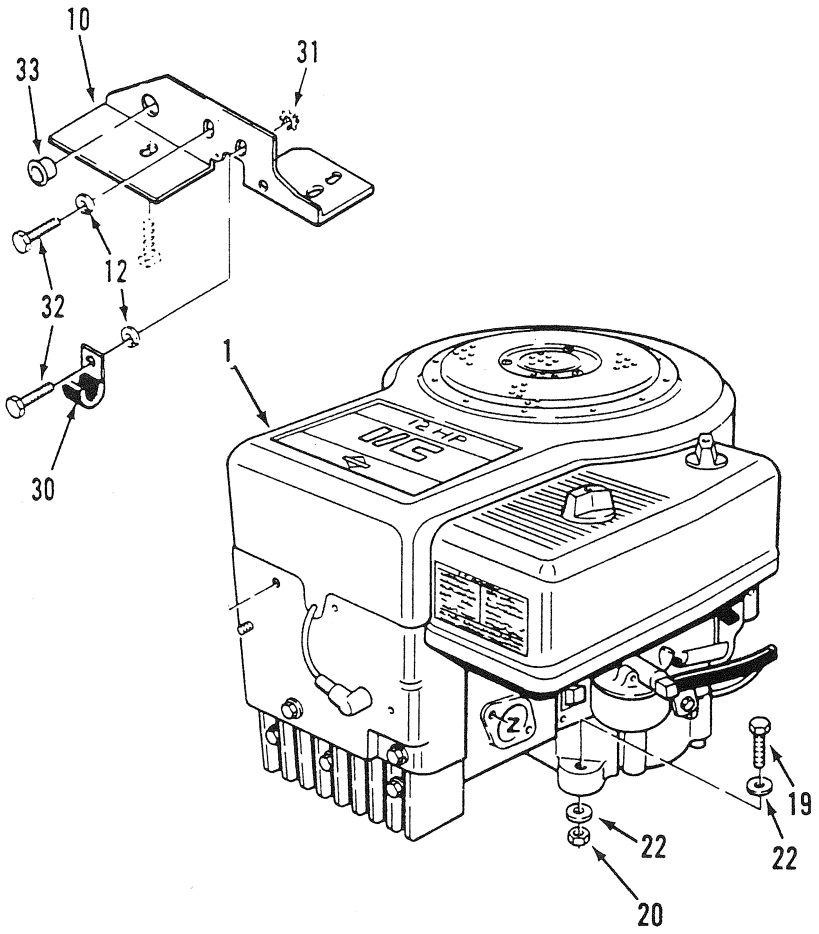







Figure 6-1 Engines

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 6-1<br>ENGINES | |
| 1 | 114887 | Engine - 10 HP Briggs & Stratton I/C Model 256707 Type 0117 01 0120-01 | 1 |
| | 118390 | Engine - 12 HP Briggs & Stratton I/C Quiet Model 281707 Type 0219 01 | 1 |
| | 112676 | Drain Pipe used on engine (not illustrated) | 1 |
| | 5224 | Pipe Cap used on engine (not illustrated) | 1 |
| | 908021 | Bolt 5/16-18 X 1 1/2 used on engine (not illustrated) | 2 |
| | 908023 | Bolt 5/16-18 X 2 used on engine (not illustrated) | 1 |
| | 920008 | Washer 5/16 SAE used on engine (not illustrated) | 5 |
| | 915662 | E.S. nut 5/16-18 used on engine (not illustrated) | 5 |
| | 915112 | Eslok Nut used on engine (not illustrated) 5/16-18 | 1 |
| 10 | 115962 | Engine Head Bracket | 1 |
| | 915112 | Nut 5/16-18 (not illustrated) | 2 |
| 12 | 920082 | Lockwasher 5/16 | 2 |
| 30 | 8830 | Clip | 1 |
| 31 | 920123 | External Tooth Lockwasher 5/16 | 2 |
| 33 | 938031 | Bushing | 1 |

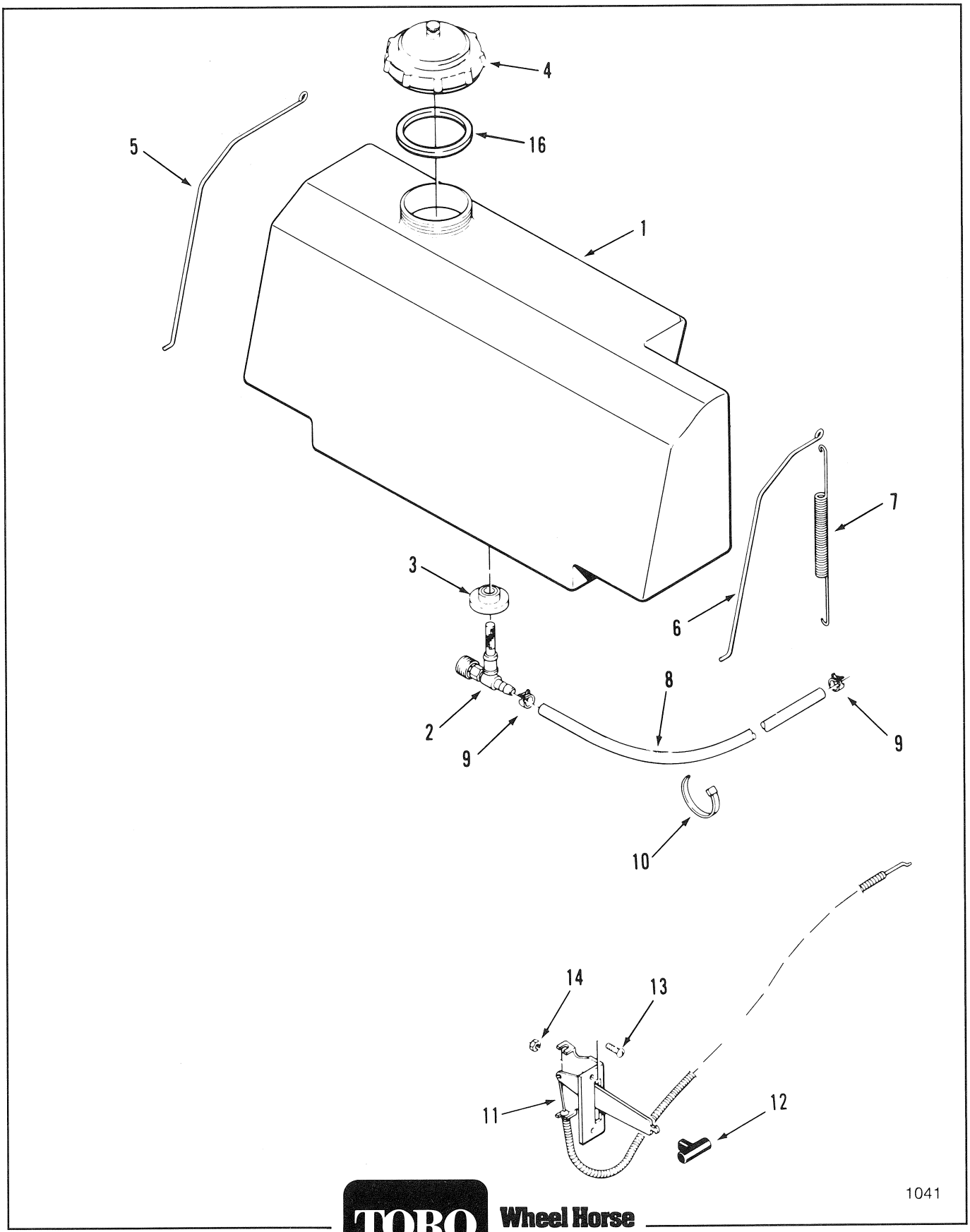



Figure 7-1 Fuel System

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 7-1<br>FUEL SYSTEM | |
| 1 | 114194 | Fuel Tank (includes items 2 & 3) | 1 |
| 2 | 104048 | Fuel Tank Fitting w/Screen | 1 |
| 3 | 104047 | Bushing | 1 |
| 4 | 110352 | Fuel Tank Cap w/ Gasket | 1 |
| 5 | 110925 | Fuel Tank Retainer RH | 1 |
| 6 | 119940 | Retainer Tank LH | 1 |
| 7 | 110927 | Spring | 2 |
| 8 | 100088 | Fuel Hose 9'' (24 cm) | 1 |
| 9 | 108898 | Hose Clamp | 2 |
| 10 | 100571 | Cable Tie | 1 |
| 11 | 110878 | Choke/Throttle Control | 1 |
| 12 | 116454 | Choke Throttle Knob | 1 |
| 13 | 910792 | Pan Head Screw nr. 10-24 x 1/2 | 2 |
| 14 | 915740 | E.S. Nut nr. 10-24 | 2 |
| 16 | 106931 | Fuel Cap Gasket | 1 |

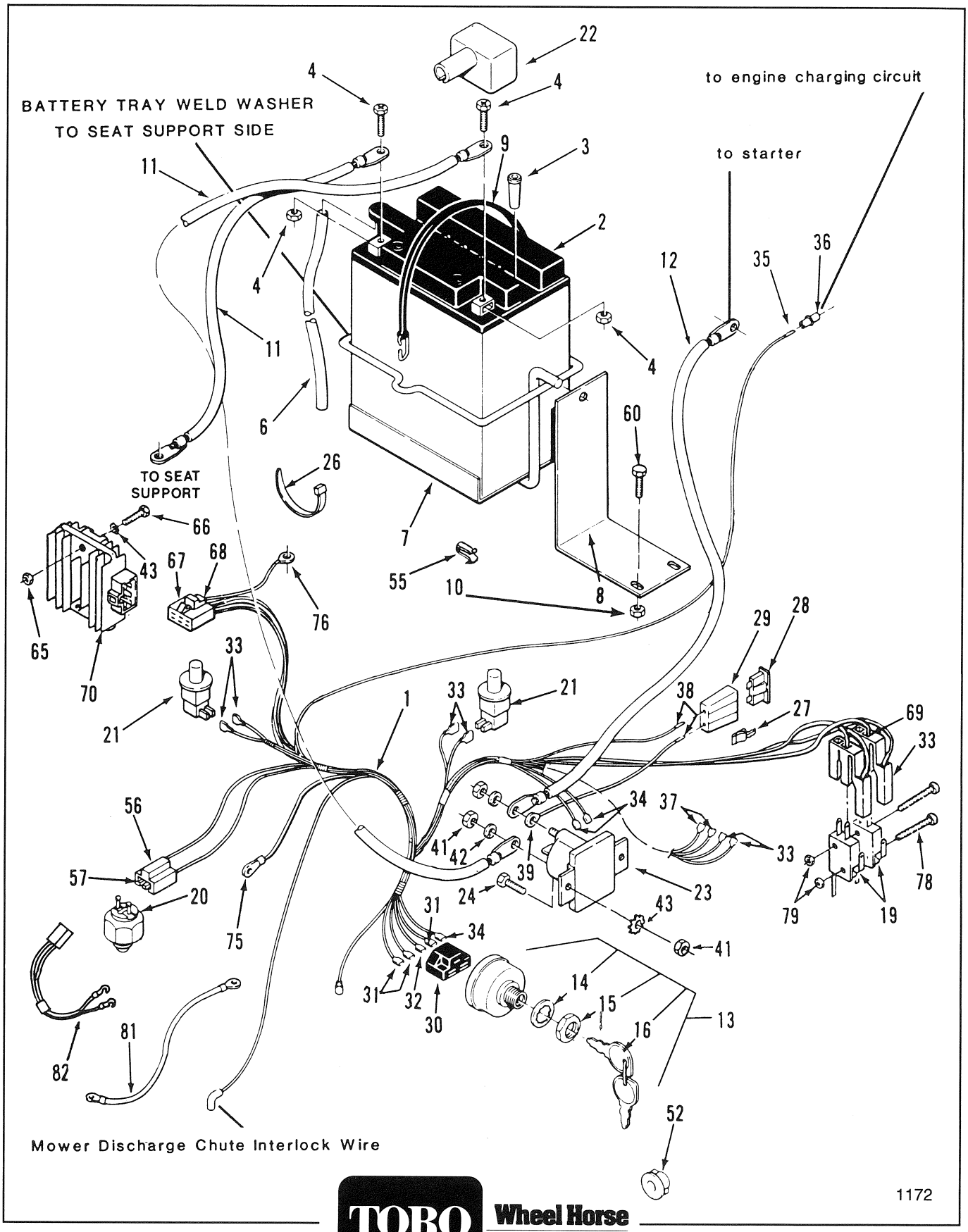



Figure 8-1 Electrical System

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 8-1<br>ELECTRICAL SYSTEM | |
| 1 | 114834 | Wiring Harness | 1 |
| 2 | 110379 | Battery | 1 |
| 3 | 110427 | Battery Acid Adapter | 1 |
| 4 | 111185 | Battery Metric Nuts & Bolts Pkg | X |
| 6 | 110424 | Battery Drain Hose | 1 |
| 7 | 111335 | Battery Saddle Tray | 1 |
| 8 | 111339 | Battery Tray Bracket | 1 |
| 9 | 111340 | Battery Hold-Down Strap | 1 |
| 10 | 915112 | Eslok Nut 5/16-18 | 2 |
| 11 | 111341 | Battery Ground Cable & Battery to Solenoid Cable | 2 |
| 12 | 111075 | Solenoid To Engine Starter Cable | 1 |
| 13 | 111215 | Ignition Switch (includes items 14 & 15) | 1 |
| 14 | 920160 | Internal Lockwasher 5/8 | 1 |
| 15 | 101884 | Nut 5/8-32 | 1 |
| 16 | 116738 | Ignition Key | 1 |
| 19 | 114565 | Interlock Switch (P.T.O) | 2 |
| 20 | 111365 | Transmission Interlock Switch | 1 |
| 21 | 109329 | Seat Interlock Switch | 2 |
| 22 | 111045 | Cable Boot | 1 |
| 23 | 110167 | Solenoid | 1 |
| 24 | 960151 | Whizlock Bolt 1/4-20 x 1/2 | 2 |
| 26 | 100571 | Cable Tie | 4 |
| 27 | 109445 | Fuse Body Mounting Clip | 1 |
| 28 | 109355 | 15 Amp Fuse | 1 |
| | 109102 | 25 Amp Fuse | 1 |
| 29 | 109117 | Fuse Holder | 1 |
| 30 | 105302 | Terminal Housing (Part of 1) | 1 |
| 31 | 102651 | Wire Terminal (Part of 1) | 1 |
| 32 | 113090 | Wire Terminal (Part of 1) | 1 |
| 33 | 113124 | Wire Terminal (Part of 1) | 6 |
| 34 | 113088 | Wire Terminal (Part of 1) | 3 |
| 35 | 518074 | Socket Contact (Part of 1) | 1 |
| 36 | 107831 | Body (Part of 1) | 1 |
| 37 | 109378 | Wire Terminal (Part of 1) | 2 |
| 38 | 108995 | Wire Terminal (Part of 1) | 2 |
| 39 | 518007 | Wire Terminal (Part of 1) | 1 |
| 41 | 915111 | Nut 1/4 - 20 | 4 |
| 42 | 920081 | Lockwasher 1/4 | 2 |

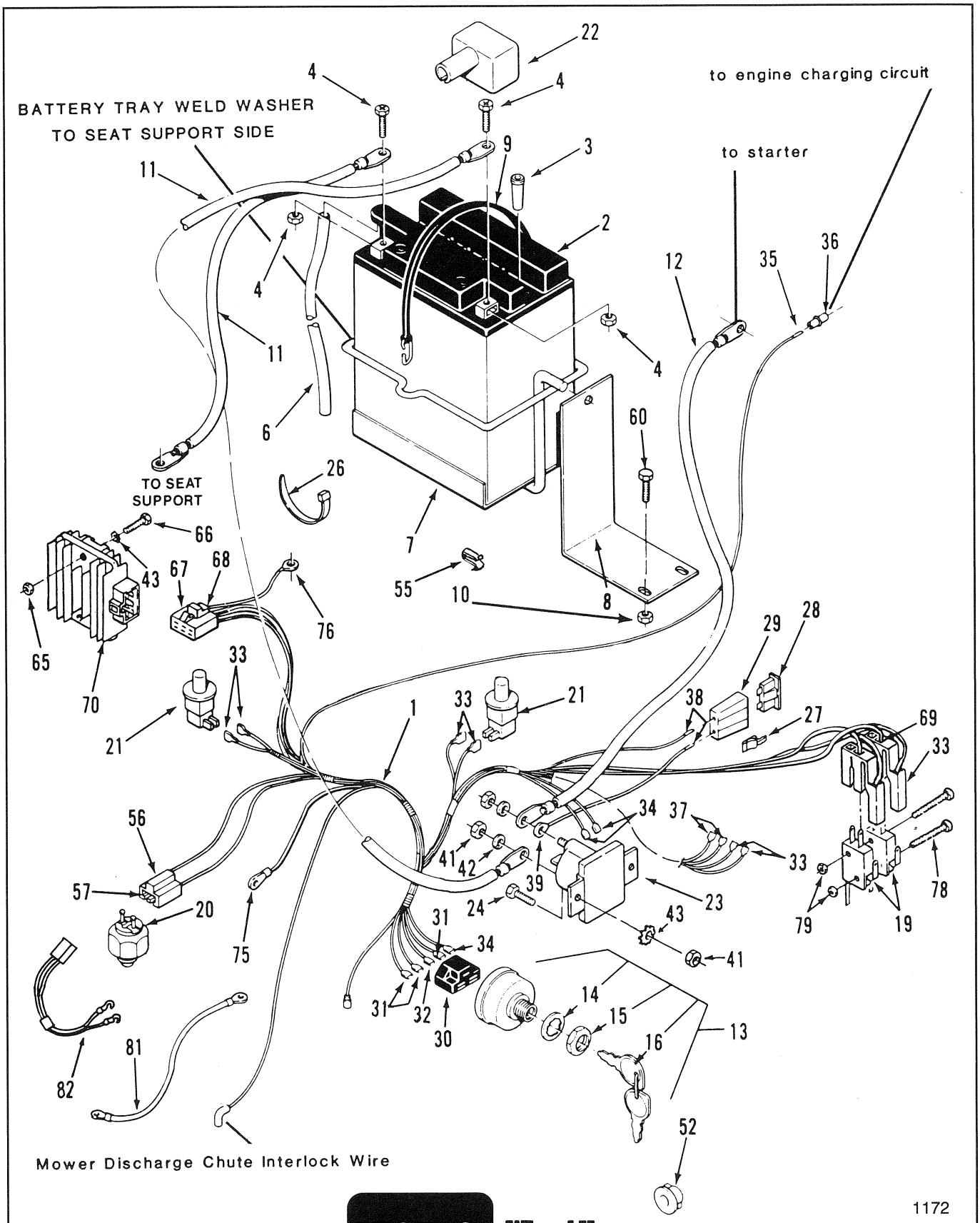



Figure 8-1 Electrical System

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 8-1<br>ELECTRICAL SYSTEM (CONTINUED) | |
| 52 | 938031 | Bushing Snap | 1 |
| 55 | 8830 | Clip | 2 |
| 56 | 109357 | Connector Body (Part of 1) | 1 |
| 57 | 113206 | Male Terminals (Part of 1) | 2 |
| 60 | 908017 | Hex Bolt 5/16-18 x 3/4 | 1 |
| 69 | 111498 | 3 Terminal Connector | 2 |
| 78 | 910478 | Screw nr. 4-40 x 1-1/4 | 2 |
| 79 | 915732 | E.S. Nut nr. 4-40 | 4 |
| 81 | 113921 | Mower Ground Wire | 1 |
| 82 | 111364 | Wiring Harness | 1 |

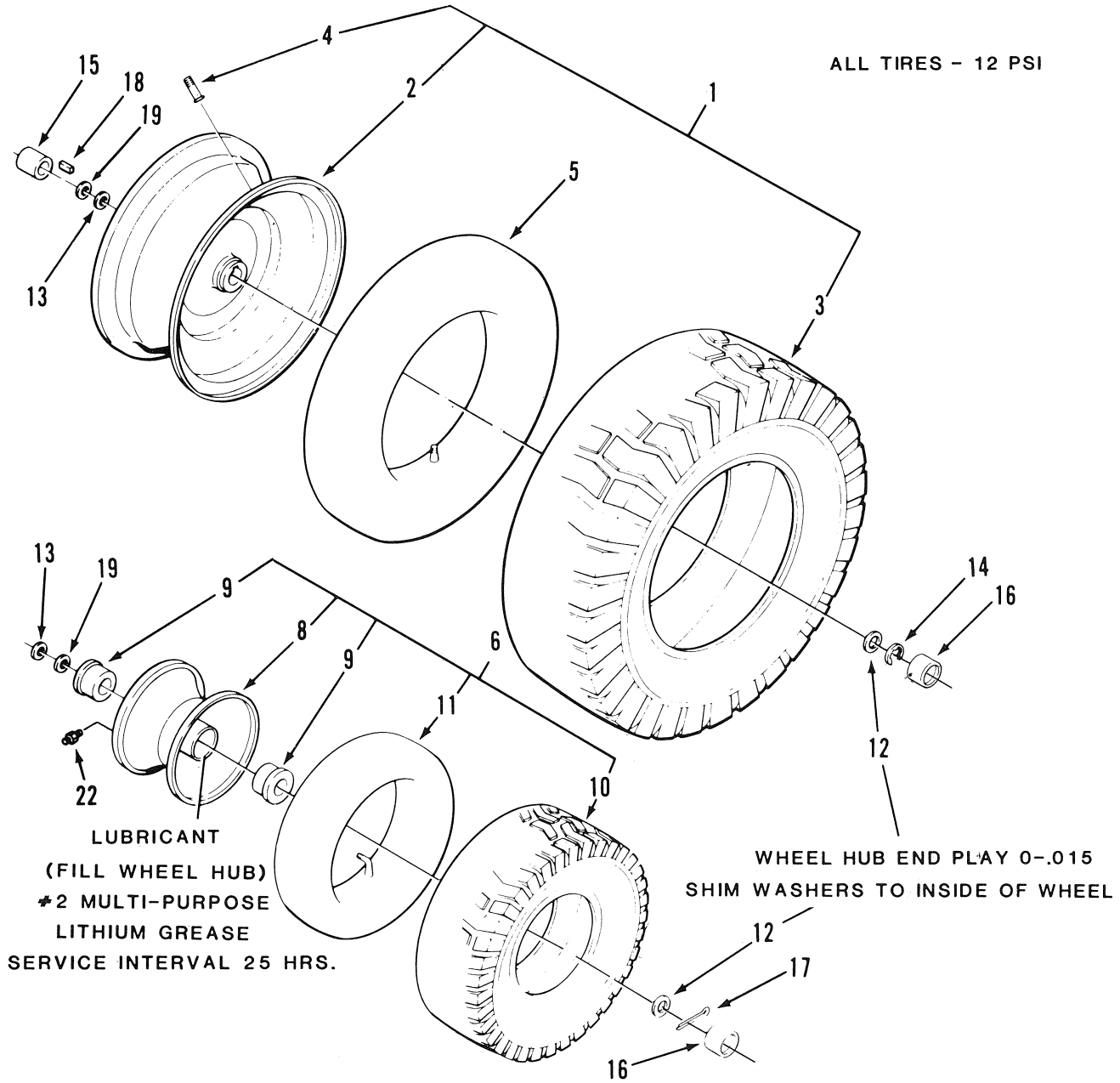



Figure 9-1 Wheels and Tires

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 9-1<br>WheelS AND TIRES | |
| 1 | 112195 | Rear wheel and Tire | 2 |
| 2 | 112196 | Rear Wheel | 2 |
| 3 | 9792 | Rear Tire 16 x 6.50-8 | 2 |
| 4 | 5108 | Valve Stem | 2 |
| 5 | 105293 | Inner Tube Service Only | X |
| 6 | 113343 | Front Wheel and Tire | 2 |
| 8 | 113344 | Front Wheel w/Bushings & Grease Fit | 2 |
| 9 | 113342 | Bushing | 2 |
| 10 | 108444 | Tire 4.10 x 3.50-4 | 2 |
| 11 | 100041 | Front Tube Service Only | X |
| 12 | 109262 | Wheel Washer | 4 |
| 13 | 920250 | Shim Washer .050 | X |
| 14 | 104636 | E-Ring | 2 |
| 15 | 110387 | LH Axle Spacer | 2 |
| 16 | 109154 | Hub Cap (Black) | 2 |
| | 109261 | Hub Cap | 2 |
| 17 | 932018 | Cotter Pin 1/8 x 1-1/4'' | 2 |
| 18 | 1120 | Squars Key 3/16 x 1-3/4 | 2 |
| 19 | 5210 | Washer .015 | X |

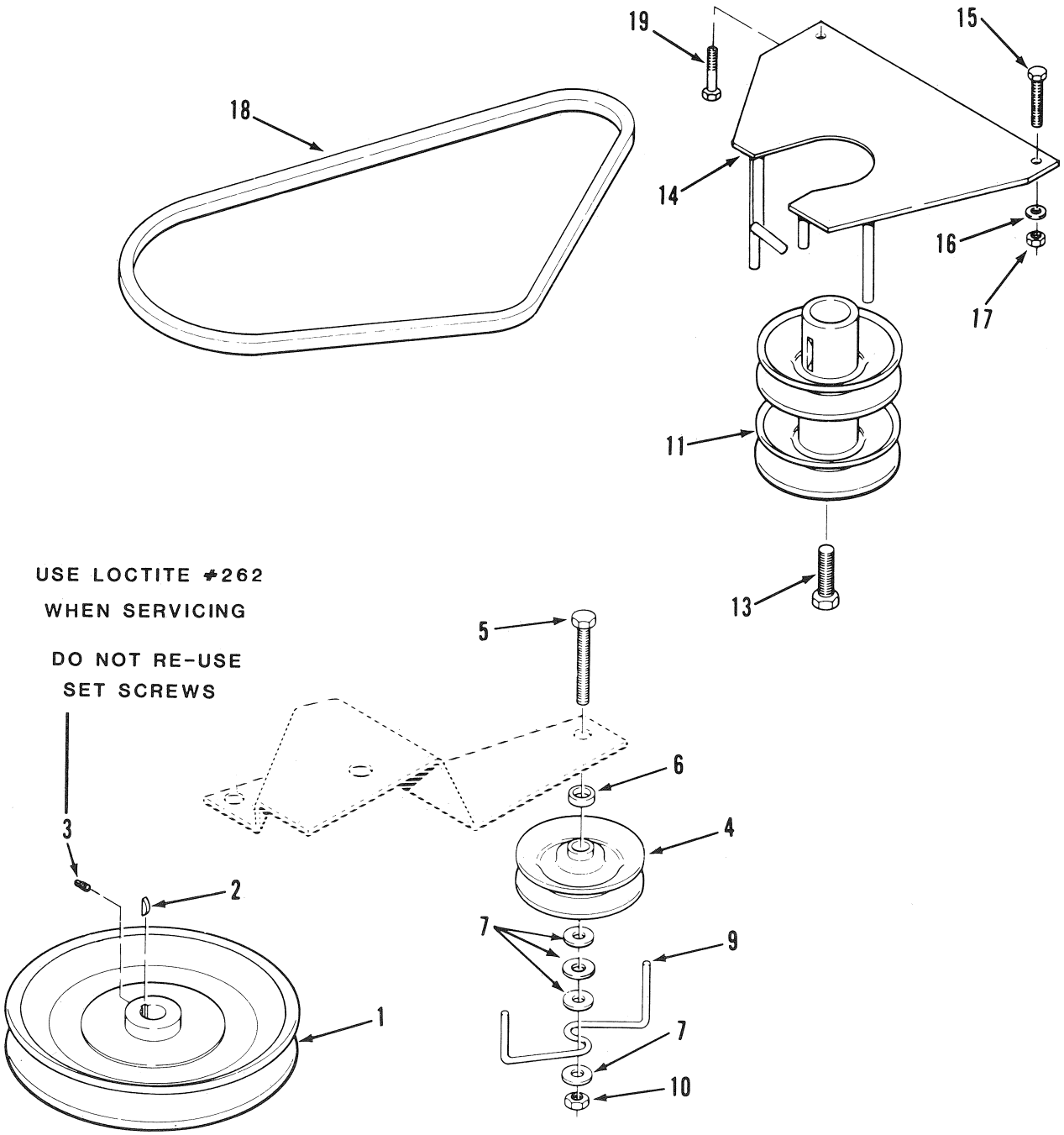



Figure 10-1 Drive Belt and Pulleys

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 10-1<br>DRIVE BELT AND PULLEYS | |
| 1 | 111136 | Transmission Pulley | 1 |
| 2 | 937225 | Nr. 9 Hi-Pro Key | 1 |
| 3 | 909540 | Square Head Set Screw | 2 |
| 4 | 113112 | V-Idler Pulley | 1 |
| 5 | 908038 | Bolt 3/8-16 x 2 | 1 |
| 6 | 111108 | Spacer | 1 |
| 7 | 920039 | Special Washer 3/8 | 4 |
| 9 | 110362 | V-Idler Pulley Belt Guide | 1 |
| 10 | 109779 | Jam Nut 3/8-16 | 1 |
| 11 | 114113 | Engine Pulley | 1 |
| 13 | 908196 | Eslok Bolt 5/16 x 3/4 | 1 |
| 14 | 114262 | Engine Pulley Belt Guide | 1 |
| 15 | 908022 | Bolt 5/16-18 x 1-3/4 | 2 |
| 16 | 920008 | Washer 5/16 SAE | 2 |
| 17 | 915662 | E.S. Nut 5/16-18 | 2 |
| 18 | 113105 | Transmission Drive Belt (33,1'') | 1 |

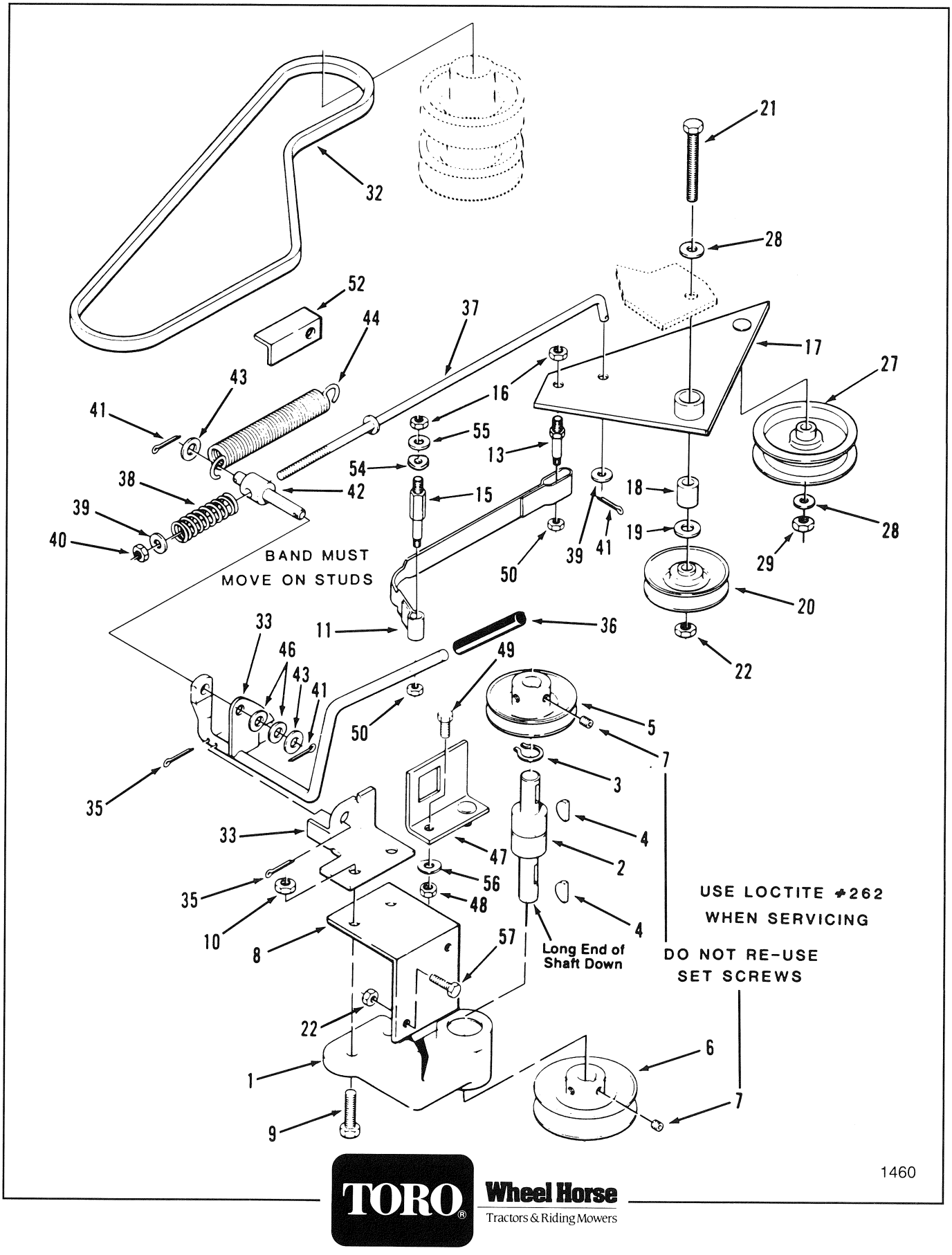
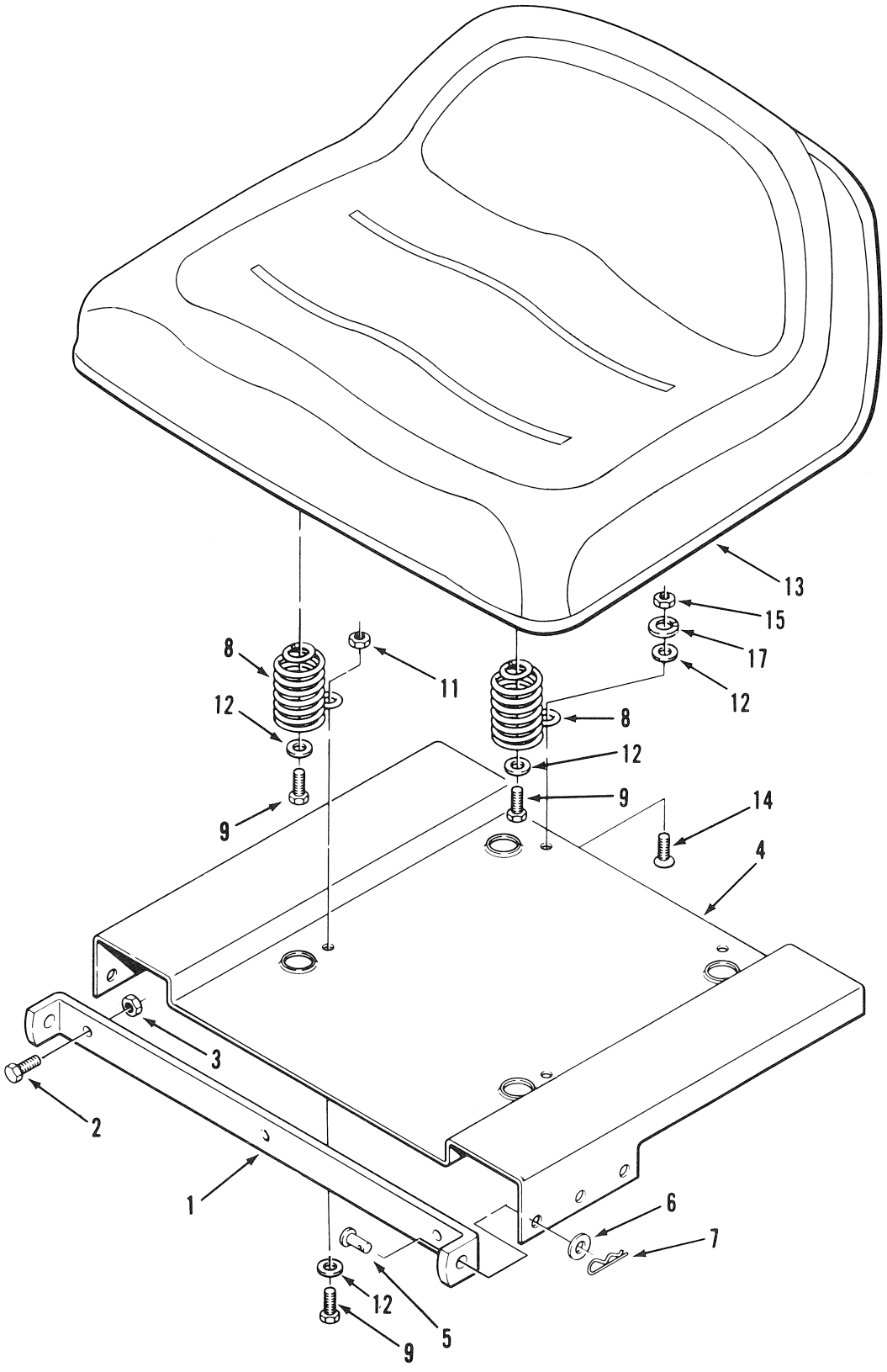



Figure 10-2 PTO Clutch, Pulleys, and Controls

## Figure 10-2
## PTO CLUTCH, PULLEYS, AND CONTROLS

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| 1 | 8971 | Jack Shaft Housing | 1 |
| 2 | 106388 | Integral Shaft Bearing | 1 |
| 3 | 936021 | Retaining Ring | 1 |
| 4 | 937089 | Nr. 9 Woodruff Key | 2 |
| 5 | 112109 | Upper Jackshaft Pulley | 1 |
| 6 | 108172 | Lower Jackshaft Pulley | 1 |
| 7 | 909862 | Set Screw 5/16-18 x 5/16 | 4 |
| 8 | 113151 | Spacer Plate | 1 |
| 9 | 908035 | Bolt 3/8-16 x 1-1/4 | 2 |
| 10 | 915663 | E.S. Nut 3/8-16 | 2 |
| 11 | 112110 | PTO Brake Band | 1 |
| 13 | 111729 | Shoulder Bolt | 1 |
| 15 | 111730 | Long Shoulder Bolt | 1 |
| 16 | 915112 | Eslok Nut 5/16-18 | 2 |
| 17 | 112111 | PTO Clutch Lever Assy | 1 |
| 18 | 110369 | Spacer | 1 |
| 19 | 920249 | Spacial Washer | 1 |
| 20 | 8510 | V Idler Pulley | 1 |
| 21 | 908041 | HHCS 3/8-16 x 2-3/4 | 1 |
| 22 | 915663 | E.S. Nut 3/8-16 | 2 |
| 27 | 112425 | Flat Idler Pulley | 1 |
| 28 | 920009 | Washer 3/8 SAE | 2 |
| 29 | 109779 | Jam Nut 3/8-16 | 1 |
| 32 | 114231 | PTO Drive Belt | 1 |
| 33 | 111057 | PTO Handle | 1 |
| 35 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 36 | 9038 | Handle Grip | 1 |
| 37 | 111676 | PTO Handle to Lever Rod | 1 |
| 38 | 112113 | Compression Spring | 1 |
| 39 | 920008 | Washer 5/16 SAE | 2 |
| 40 | 915662 | E.S. Nut 5/16-18 | 1 |
| 41 | 932008 | Cotter Pin 3/32 x 3/4 | 3 |
| 42 | 111755 | Trunnion | 1 |
| 43 | 920009 | Washer 3/8 SAE | 2 |
| 44 | 6651 | PTO Brake Spring | 1 |
| 46 | 108571 | Spring Washer | X |
| 47 | 112756 | PTO Switch Bracket | 1 |
| 48 | 915661 | E.S. Nut 1/4-20 | 1 |
| 49 | 908002 | Bolt 1/4-20 x 5/8 | 1 |
| 50 | 915111 | Eslok Nut 1/4-20 | 2 |
| 52 | 112115 | Bracket | 1 |
| 54 | 2844 | Special Washer | 1 |
| 55 | 920008 | Washer 5/16 SAE | 1 |
| 56 | 920007 | Washer 1/4 SAE | 1 |
| 57 | 908033 | Bolt 3/8-16 x 7/8 | 1 |




TORO® Wheel Horse Tractors & Riding Mowers

Figure 11-1 Seat and Suspension

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 11-1<br>SEAT AND SUSPENSION | |
| 1 | 111064 | Seat Mounting Bracket | 1 |
| 2 | 908017 | Bolt 5/16-18 x 3/4 | 3 |
| 3 | 915662 | Eslok Nut 5/16-18 | 3 |
| 4 | 113961 | Seat Pivot Plate | 1 |
| 5 | 932960 | Clevis Pin 5/8 | 2 |
| 6 | 108571 | Spring Washer | 2 |
| 7 | 933504 | Hair Pin Cotter 1 7/16 | 2 |
| 8 | 111090 | Spring | 4 |
| 9 | 908017 | Bolt 5/16-18 x 3/4 | 7 |
| 11 | 915662 | Eslok Nut 5/16-18 | 3 |
| 12 | 920008 | Washer 5/16 SAE | 9 |
| 13 | 116654 | Seat | 1 |
| 14 | 908835 | Screw 5/16-18 x 3/4 | 1 |
| 15 | 915112 | Nut 5/16-18 | 1 |
| 17 | 920082 | Lockwasher 5/16 | 1 |

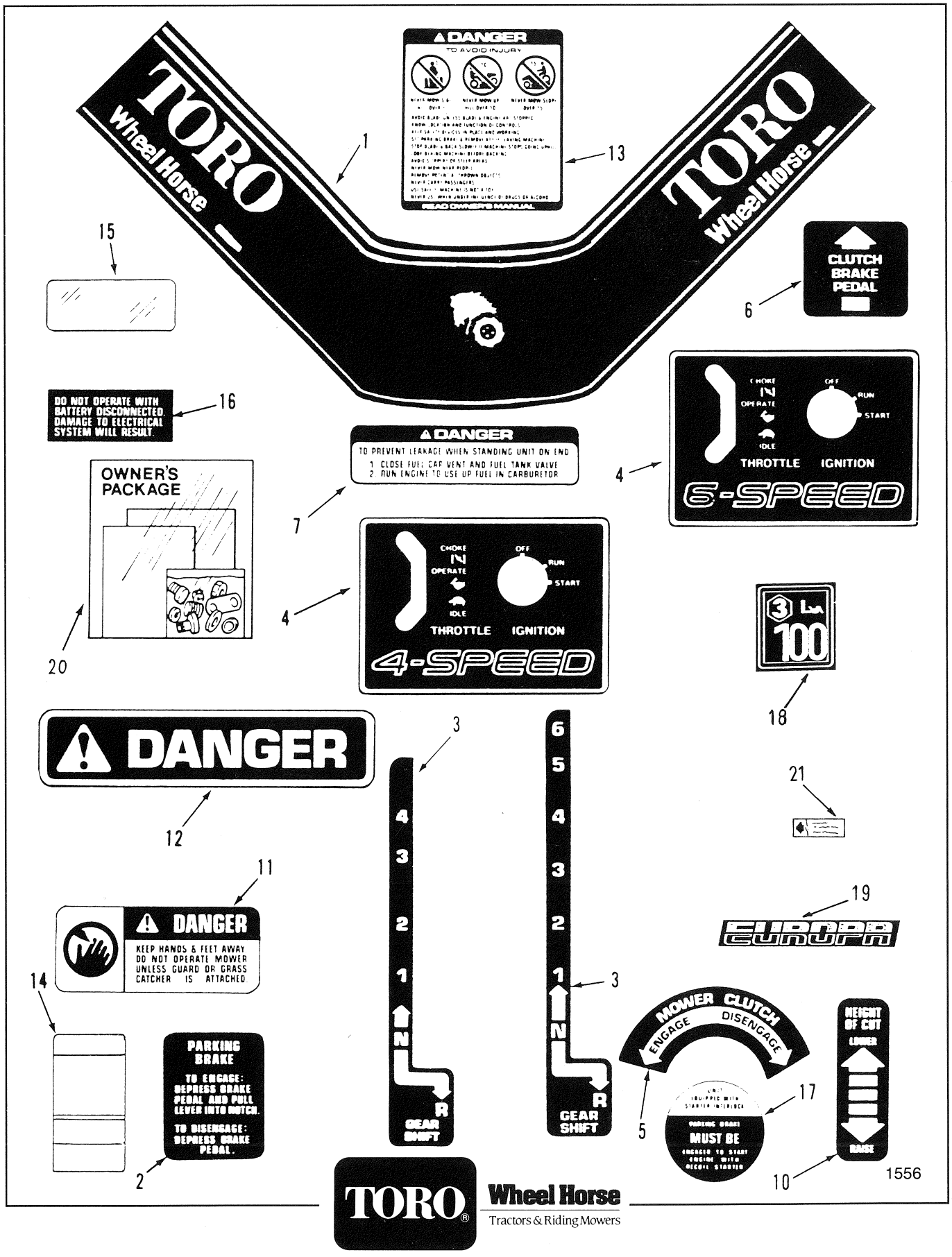



Figure 11-2 Decals and Miscellaneous

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 11-2<br>DECALS AND MISCELLANEOUS | |
| 1 | 117023 | Decal-Model 110-4 | 1 |
| | 117024 | Decal-Model 112-6 | 1 |
| 2 | 111327 | Parking Brake Decal | 1 |
| | 88129 | Parking Brake Decal German | 1 |
| | 88130 | Parking Brake Decal French | 1 |
| | 88131 | Parking Brake Decal Dutch | 1 |
| 3 | 112140 | Shift Decal 4-Speed | 1 |
| | 88126 | Shift Decal 4-Speed Symbol | 1 |
| | 112180 | Shift Decal 6-Speed | 1 |
| | 88127 | Shift Decal Symbol 6-Speed | 1 |
| 4 | 88166 | Ignition Throttle Decal Symbol 4-Speed | 1 |
| | 88241 | Ignition Throttle Decal Symbol 6-Speed | 1 |
| 5 | 111635 | PTO Decal | 1 |
| | 88125 | PTO Decal Symbol | 1 |
| 6 | 111632 | Clutch Brake Pedal Decal | 1 |
| | 79242 | Clutch Brake Pedal Decal German | 1 |
| | 79234 | Clutch Brake Pedal Decal French | 1 |
| | 88124 | Clutch Brake Pedal Decal Dutch | 1 |
| 7 | 113913 | Decal-Fuel Tank Danger | 1 |
| | 88108 | Decal - Fuel Tank Danger German | 1 |
| | 88109 | Decal - Fuel Tank Danger French | 1 |
| | 88110 | Decal - Fuel Tank Danger Dutch | 1 |
| 10 | 111655 | Mower Height Adjustment Decal | 1 |
| | 88117 | Mower Height Adjustment Decal Symbol | 1 |
| 11 | 111188 | Decal-Danger Mower | 2 |
| | 88090 | Decal - Danger Mower German | 2 |
| | 88091 | Decal - Danger Mower French | 2 |
| | 88092 | Decal - Danger Mower Dutch | 2 |
| 12 | 110422 | Decal-Danger | 1 |
| | 88114 | Decal - Danger German | 1 |
| | 88115 | Decal - Danger French | 1 |
| | 88116 | Decal - Danger Dutch | 1 |
| 13 | 112670 | Decal-Operating Danger | 1 |
| | 88093 | Decal - Operating Danger German | 1 |
| | 88094 | Decal - Operating Danger French | 1 |
| | 88095 | Decal - Operating Danger Dutch | 1 |
| 14 | 115398 | Decal-Maintenance | 1 |
| | 88064 | Decal - Maintenance German | 1 |
| | 88063 | Decal - Maintenance French | 1 |
| | 88065 | Decal - Maintenance Dutch | 1 |
| 15 | 112403 | Decal-VIN Overlay | 1 |

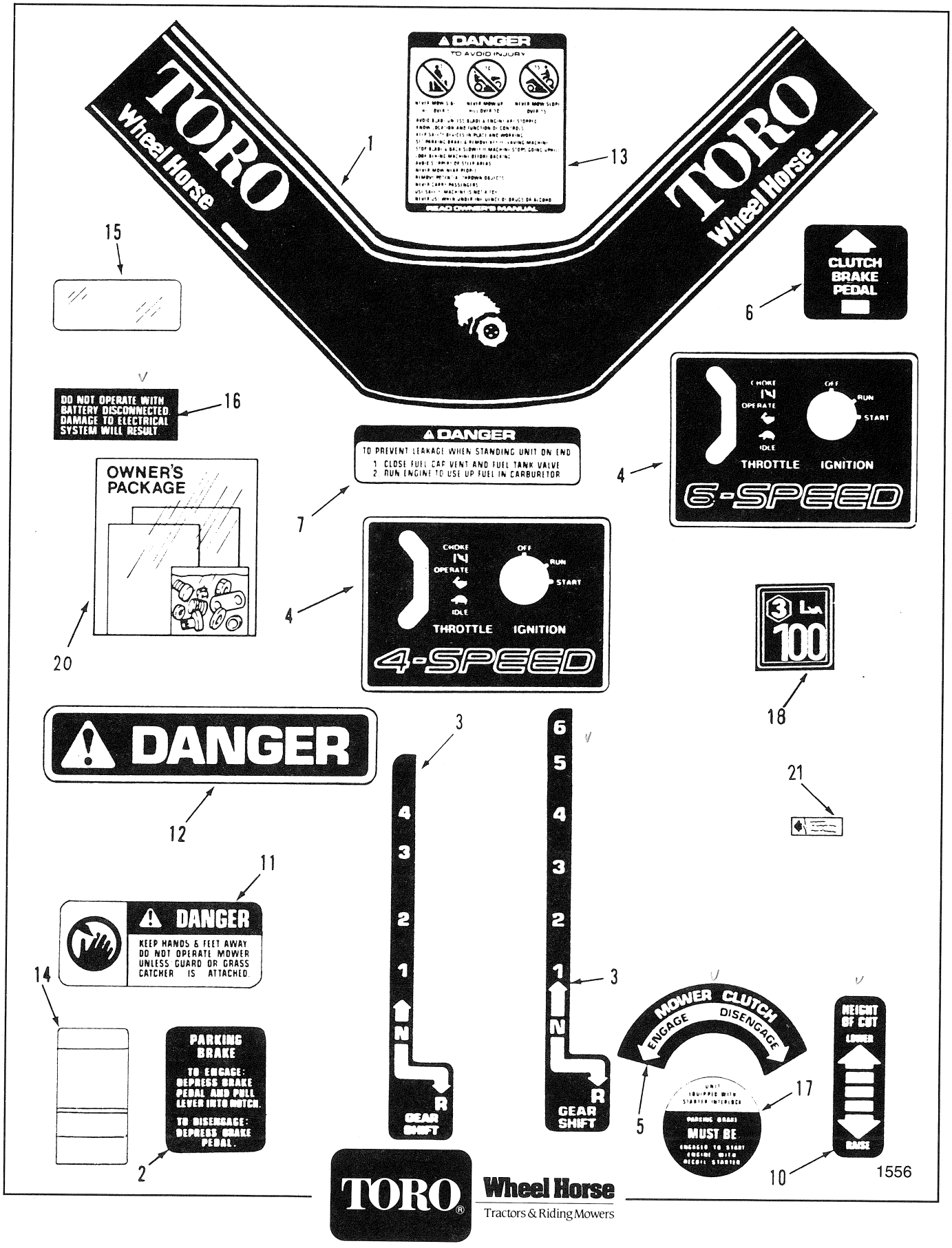
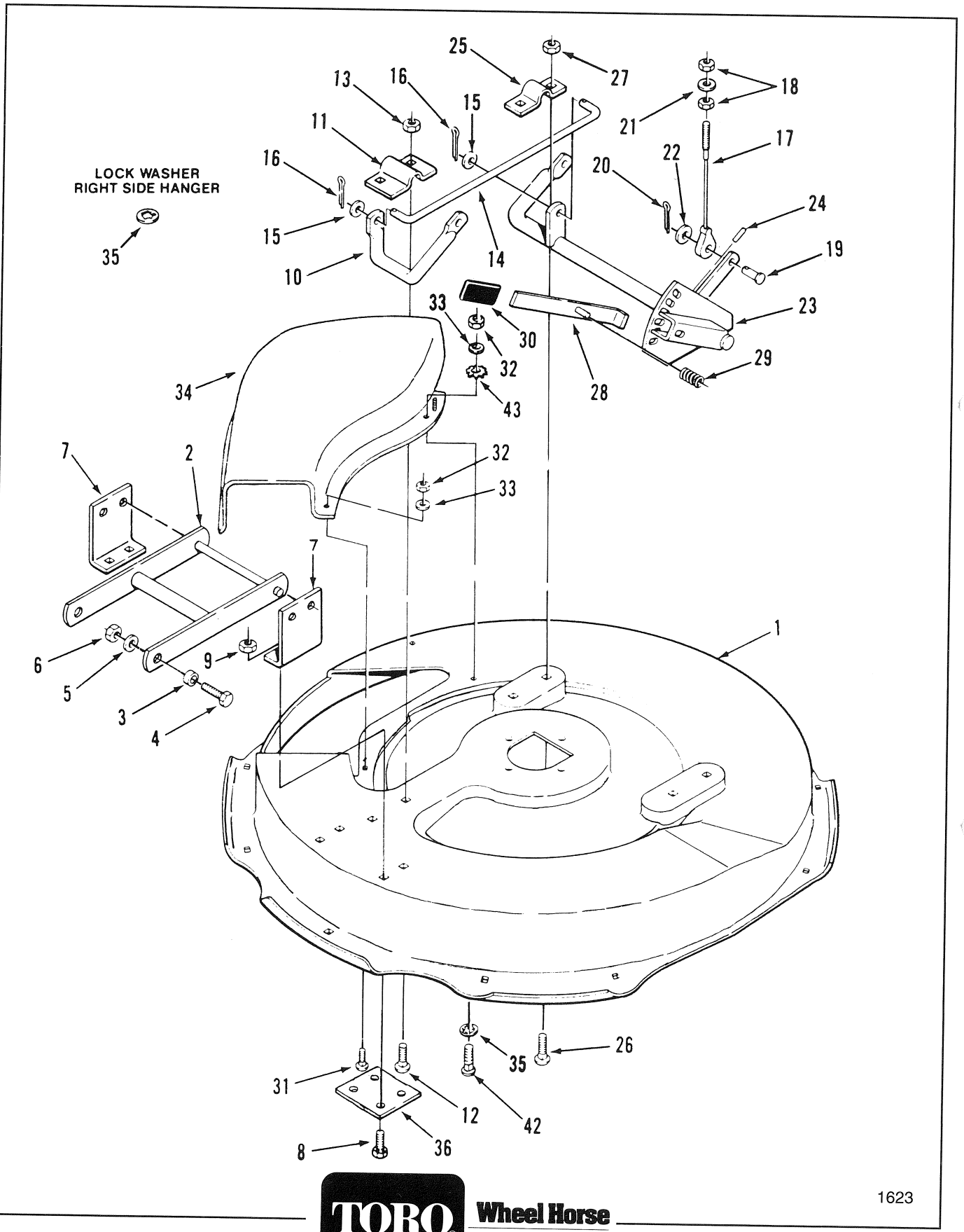



Figure 11-2 Decals and Miscellaneous

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 11-2<br>DECALS AND MISCELLANEOUS (CONT'D) | |
| 16 | 111926 | Decal-Electrical System | 1 |
| | 88121 | Decal - Electrical Ststem German | 1 |
| | 88122 | Decal - Electrical System French | 1 |
| | 88123 | Decal - Electrical System Dutch | 1 |
| 18 | 114621 | Decal - Europe Noise | 1 |
| 20 | 807192 | Loose Parts Pack | 1 |
| 21 | 113180 | Deacl - PTO Adjustment Indicator | 1 |
| | 88118 | Decal - PTO Adjustment Indicator German | 1 |
| | 88119 | Decal - PTO Adjustment Indicator French | 1 |
| | 88120 | Decal - PTO Adjustment Indicator Dutch | 1 |




TORO® Wheel Horse Tractors & Riding Mowers

Figure 12-1 Mower Deck and Front Mount

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 12-1<br>MOWER DECK AND FRONT MOUNT | |
| 1 | 111143 | Mower Deck | 1 |
| 2 | 110402 | Front Mower Mount | 1 |
| 3 | 102704 | Spacer | 2 |
| 4 | 908036 | Bolt 3/8-16 X 1-1/2 | 2 |
| 5 | 920009 | Washer 3/8 SAE | 2 |
| 6 | 915663 | E.S. Nut 3/8-16 | 2 |
| 7 | 110405 | Front Mower Bracket | 2 |
| 8 | 908034 | Hex Bolt 3/8-16 x 1 | 4 |
| 9 | 915663 | E.S. Nut 3/8-16 | 4 |
| 10 | 110409 | Height Adjustment Rod | 1 |
| 11 | 113422 | Clamp Note-Offset to Inside | 1 |
| 12 | 900063 | Carriage Bolt 3/4-16 x 1 | 2 |
| 13 | 915663 | E.S. Nut 3/4-16 | 2 |
| 14 | 110914 | Height Adjustment Rod | 1 |
| 15 | 920009 | Washer 3/8 SAE | 2 |
| 16 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 17 | 110412 | Mower Support Cable | 2 |
| 18 | 915112 | Eslok Nut 5/16-18 | 4 |
| 19 | 932961 | Clevis Pin 3/8 x 3/4 | 2 |
| 20 | 932008 | Cotter Pin 3/32 x 3/4 | 2 |
| 21 | 920008 | Washer 5/16 SAE | 2 |
| 22 | 920009 | Washer 3/8 SAE (left side only) | 1 |
| 23 | 110413 | Height Adjustment | 1 |
| 24 | 933182 | Spirol Pin 3/16 x 5/8 | 1 |
| 25 | 110841 | Clamp | 1 |
| 26 | 900063 | Carriage Bolt 3/8-16 x 1 | 4 |
| 27 | 915663 | E.S. Nut 3/8-16 | 4 |
| 28 | 110418 | Height Adjustment Lever | 1 |
| 29 | 101853 | Spring | 1 |
| 30 | 102597 | Grip | 1 |
| 31 | 900014 | Carriage Bolt 1/4-20 x 5/8 | 2 |
| 32 | 915661 | E.S. Nut 1/4-20 | 4 |
| 33 | 920007 | Washer 1/4 SAE | 4 |
| 34 | 115206 | Mower Deflector | 1 |
| 35 | 920155 | Internal Tooth Lockwasher 5/16 | 2 |
| 36 | 112736 | Front Mounting Plate | 1 |
| 42 | 900015 | Carriage Bolt 1/4-20 x 3/4 | 1 |
| 43 | 920122 | External Tooth Lockwasher 1/4 | 1 |

* ''4'' At end indicates free - running nut.
DO NOT use Eslok or other type locking nut.

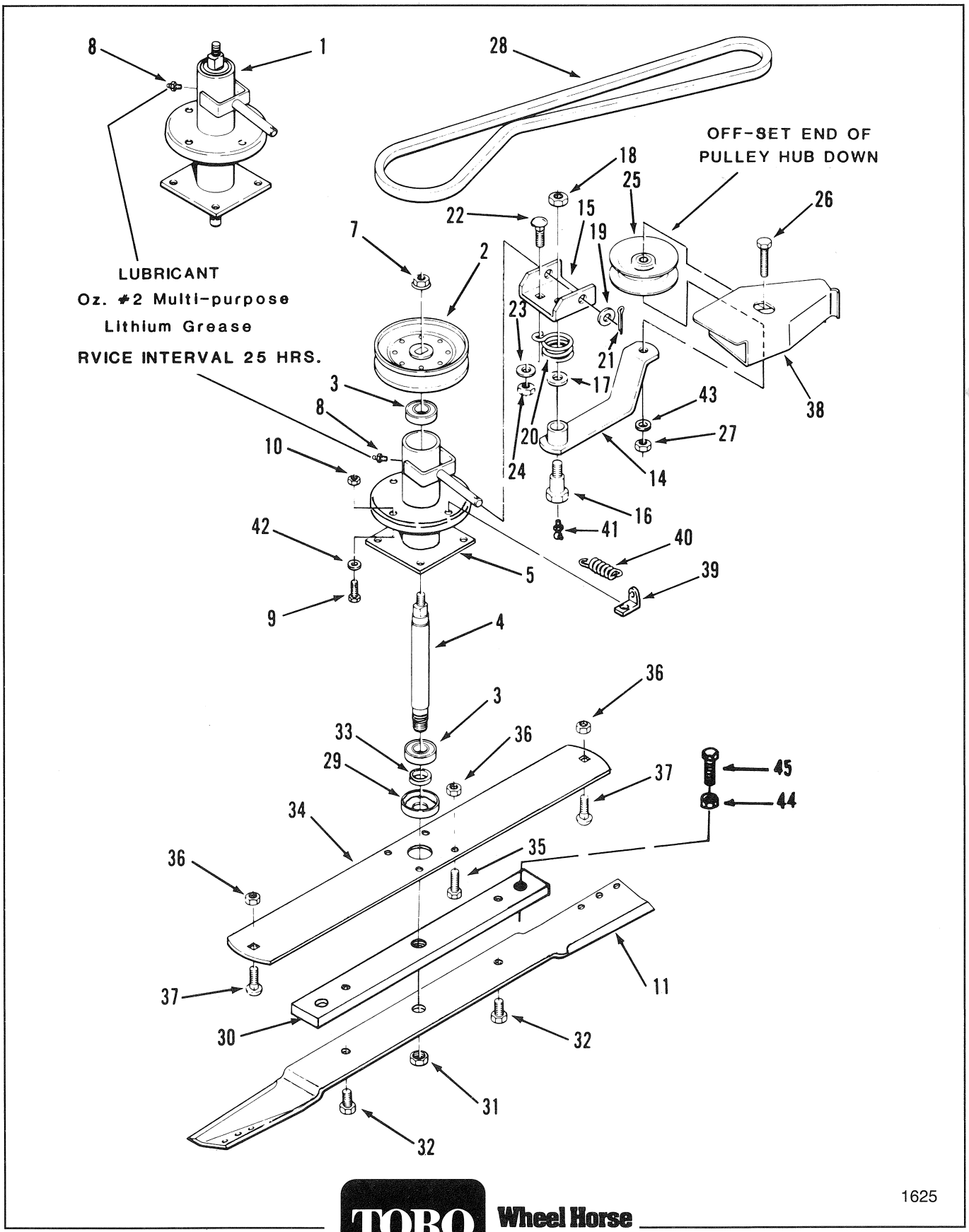
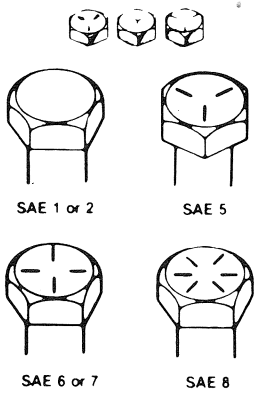



Figure 12-2 Spindle, Pulleys, and Drive Belt

| ITEM | PART NUMBER | DESCRIPTION | 100-Series |
|---|---|---|---|
| | | Figure 12-2<br>SPINDLE, PULLEYS, AND DRIVE BELT | |
| 1 | 113168 | Spindle Complete (includes items 3, 4, 5 & 8) | 1 |
| 2 | 110441 | Spindle Pulley | 1 |
| 3 | 111135 | Spindle Bearing | 2 |
| 4 | 111140 | Spindle Shaft | 1 |
| 5 | 113167 | Spindle Housing | 1 |
| 7 | 960013 | Whiz Lock Nut 3/8-24 | 1 |
| 8 | 1030 | Grease Fitting | 1 |
| 9 | 908017 | Bolt 5/16-18 x 3/4 | 4 |
| 10 | 915662 | E.S. Nut 5/16-18 | 4 |
| 11 | 111144 | Mower Blade 30'' | 1 |
| 14 | 110398 | Mower Idler Lever | 1 |
| 15 | 110400 | Pivot Channel | 1 |
| 16 | 112125 | Shoulder Bolt 7/16-14 | 1 |
| 17 | 920010 | Washer 7/16 SAE | 1 |
| 18 | 109996 | Jam Nut 7/16-14 | 1 |
| 19 | 920259 | Special Washer | 1 |
| 20 | 108177 | Torsion Spring | 1 |
| 21 | 932008 | Cotter Pin 3/32 x 3/4 | 1 |
| 22 | 900063 | Carriage Bolt 3/8-16 x 1 | 1 |
| 23 | 920009 | Washer 3/8 SAE | 2 |
| 24 | 915663 | Elastic Nut 3/8-16 | 1 |
| 25 | 110910 | Flat Idler Pulley | 1 |
| 26 | 908038 | Bolt 3/8-16 x 2 | 1 |
| 27 | 915663 | Elastic Nut 3/8-16 | 1 |
| 28 | 114567 | Mower Drive Belt | 1 |
| 29 | 111156 | Spindle Cup | 1 |
| 30 | 113309 | Blade Bar | 1 |
| 31 | *9150894 | Nut 5/8 UNF | 1 |
| 32 | 911440 | Bolt 1/2-13 x 3/4 GRD 8 | 2 |
| 33 | 106068 | Spindle Spacer | 1 |
| 34 | 111138 | Support Plate | 1 |
| 35 | 908034 | Hex Bolt 3/8-16 x 1 | 4 |
| 36 | 915663 | E.S. Nut 3/8-16 | 6 |
| 37 | 900233 | Carriage Bolt 3/8-16 x 3/4 | 2 |
| 38 | 111683 | Belt Cover | 1 |
| 39 | 2534 | Clip | 1 |
| 40 | 112228 | Spring | 1 |
| 41 | 1291 | Grease Fitting | 1 |
| 42 | 920082 | Lockwasher 5/16 | 4 |
| 43 | 2844 | Washer | 1 |
| 44 | 109779 | Hex Jam Nut 3/8-16 | 2 |
| 45 | 908033 | HHCS 3/8-16 x 7/8 | 2 |

* ''4'' At end indicates free - running nut.
DO NOT use Eslok or other type locking nut.

## TORQUE SPECIFICATIONS

| BOLT HEAD MARKINGS | BOLT BODY SIZE In. - Thread | SAE GRADE 1 or 2 Torque | | SAE GRADE 5 Torque | | SAE GRADE 6 or 7 Torque | | SAE GRADE 8 Torque | |
|---|---|---|---|---|---|---|---|---|---|
| | | Ft-Lb | Nm | Ft-Lb | Nm | Ft-Lb | Nm | Ft-Lb | Nm |
| Manufacturer's marks may vary. Three-line markings on heads shown below, for example, indicate SAE Grade 5.   | 1/4-20 | 5 | 6.8 | 8 | 10.8 | 10 | 13.6 | 12 | 16.2 |
| | -28 | 6 | 8.1 | 10 | 13.6 | | | 14 | 19.0 |
| | 5/16-18 | 11 | 15.0 | 17 | 23.0 | 19 | 25.8 | 24 | 32.5 |
| | -24 | 13 | 17.6 | 19 | 25.8 | | | 27 | 36.6 |
| | 3/8-16 | 18 | 24.4 | 31 | 42.0 | 34 | 46.1 | 44 | 59.7 |
| | -24 | 20 | 27.1 | 35 | 47.5 | | | 49 | 66.4 |
| | 7/16-14 | 28 | 38.0 | 49 | 66.4 | 55 | 74.6 | 70 | 95.0 |
| | -20 | 30 | 40.7 | 55 | 74.6 | | | 78 | 105.8 |
| | 1/2-13 | 39 | 52.9 | 75 | 101.7 | 85 | 115.2 | 105 | 142.4 |
| | -20 | 41 | 55.6 | 85 | 115.2 | | | 120 | 162.7 |
| | 9/16-12 | 51 | 69.1 | 110 | 149.1 | 120 | 162.7 | 155 | 210.1 |
| | 18 | 55 | 74.6 | 120 | 162.7 | | | 170 | 230.5 |
| | 5/8-11 | 83 | 112.5 | 150 | 203.3 | 167 | 226.4 | 210 | 284.7 |
| | -18 | 95 | 128.8 | 170 | 230.5 | | | 240 | 325.4 |
| | 3/4-10 | 105 | 142.4 | 270 | 366.1 | 280 | 379.6 | 375 | 508.4 |
| | -16 | 115 | 155.9 | 295 | 400.0 | | | 420 | 569.4 |
| | 7/8- 9 | 160 | 216.9 | 395 | 535.5 | 440 | 596.6 | 605 | 820.3 |
| | -14 | 175 | 237.3 | 435 | 589.8 | | | 675 | 915.2 |
| | 1- 8 | 235 | 318.7 | 590 | 799.9 | 660 | 894.8 | 910 | 1233.8 |
| | -14 | 250 | 339.0 | 660 | 894.8 | | | 990 | 1342.2 |

## FUEL line

50' bulk fuel line ID .250 x OD .550 - nr. 112570

## FASTENERS

* All hex bolts GRADE 5 minimum, GRADE 8 used as noted.
* All carriage bolts GRADE 1 unless otherwise noted.
* In place of ESLOK or E.S. nuts, use LOCTITE or lock washers with free running nuts.

## PAINT

Red Enamel - 6 cans, order nr. 8-0311
Red Enamel - Quart can. nr. 5340 (Non-aerosol)*
Beige Enamel - 6 cans, order nr. 8-0321
Black Enamel - 6 cans, order nr. 8-0334
Pewter Metallic Enamel - 6 cans, order nr. 8-0335
(Automotive Equivalent: 1971 Lincoln-Mercury Pewter Metallic)
White Enamel - 6 cans, order nr. 8-0336
Pewter Gray Enamel - 6 cans, order nr. 8-0337
(Automotive Equivalent: 1982 Lincoln Light Pewter)
Silver Metallic Enamel - 6 cans, order nr. 8-0338
Pewter Gray Enamel - Quart can nr. 5347 (Non-aerosol)**

* Thinning - use automotive enamel reducer with zylol (slow drying time) or toluol (fast drying time) - no mineral spirits.

** Thin with zylol


TORO®