



# **RANSOMES®**

## **PARTS AND MAINTENANCE MANUAL**

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### **GREENSPLEX II™ GAS AND DIESEL GREENSMOWER**

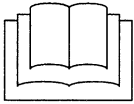
**MODEL 898855 (GAS)**  
**MODEL 898856 (DIESEL)**

**MODEL 898857 (GAS)**  
**{EC Compliant}**  
**MODEL 898858 (DIESEL)**  
**{EC Compliant}**



*WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.*

## GENERAL INFORMATION



### IMPORTANT!

THIS MANUAL WILL AID YOU IN THE SAFE OPERATION AND PROPER MAINTENANCE OF YOUR EQUIPMENT. READ MANUAL THOROUGHLY BEFORE ATTEMPTING OPERATION. IF ANY PORTION IS NOT CLEARLY UNDERSTOOD, CONTACT AN AUTHORIZED DEALER FOR CLARIFICATION.

To make sure you are fully aware of safety and service information, the following two symbols are used throughout this manual.



This symbol is used throughout the manual to alert you to information about unsafe actions or situations, and will be followed by the word DANGER, WARNING, or CAUTION. DANGER indicates immediate hazards that may result in severe injury or death. WARNING indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. CAUTION indicates unsafe actions or situations that may cause injury, and/or minor equipment or property damage.

**NOTE:** This appears next to information or instructions which will help you operate and maintain your equipment the right way.



### WARNING

- **The information and instructions included in this manual alert you to certain things you should do very carefully. If you do not, you could:**
  - hurt yourself or others
  - hurt the next person who operates the equipment
  - damage the equipment.
- **This manual contains essential operation and safety information and must remain with the unit at all times, within easy access of any operator.**

Additional manuals are available through your dealer.

### IMPORTANT!

THIS EQUIPMENT SHOULD NOT BE MODIFIED OR ADDED TO WITHOUT THE MANUFACTURER'S AUTHORIZATION.



### WARNING

- **Altering this equipment in any manner which adversely affects the equipments operation, performance, durability or use, may cause hazardous conditions.**

Direct any inquiries to:

Textron Turf Care and Specialty Products  
Attn: Director of Engineering Services  
P.O. Box 82409  
Lincoln, NE 68501-2409 USA

## SPECIFICATION INFORMATION

All information contained in this manual is the latest available at the time of printing. Textron Turf Care and Specialty Products reserves the right to make changes at any time without notice.

Whenever a name brand product is specified, an equivalent product may be used unless stated otherwise.

## CHANGE OF OWNERSHIP OR ADDRESS

Textron Turf Care and Specialty Products makes every effort to keep owners informed of all safety related information. Therefore, changes in ownership and/or address should be reported to the manufacturer.

Your dealer has REGISTRATION CHANGE FORMS which will be filled out and filed by the dealer for his records, and a copy will be sent to the manufacturer.

## DEALER INFORMATION

For your nearest dealer location write to:

Textron Turf Care and Specialty Products  
Attn: Sales Coordinator  
P.O. Box 82409  
Lincoln, NE 68501-2409 USA

In the USA and Canada call 1-800-228-4444 (dealer information only).

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## IDENTIFICATION

THESE IDENTIFICATION NUMBERS MUST APPEAR ON ALL CORRESPONDENCE CONCERNING THIS UNIT.

### MODEL NUMBER & SERIAL NUMBER

Both the Model Number and Serial Number are on the identification nameplate decal located on the right rear frame. See figure 1.

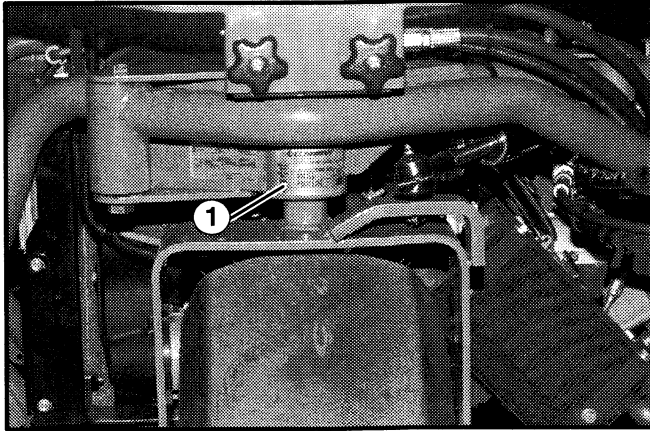


Figure 1  
1. Identification Nameplate Decal

### ENGINE IDENTIFICATION NUMBERS

To gain access to top of engine, loosen the two hand knobs above the rear fork. Raise the fuel tank frame (rear section) and pivot the rod beneath the fuel tank down and secure it in the cup next to the fork (See Fig. 2). **DO NOT** remove fuel tank cap while tank is in raised position.

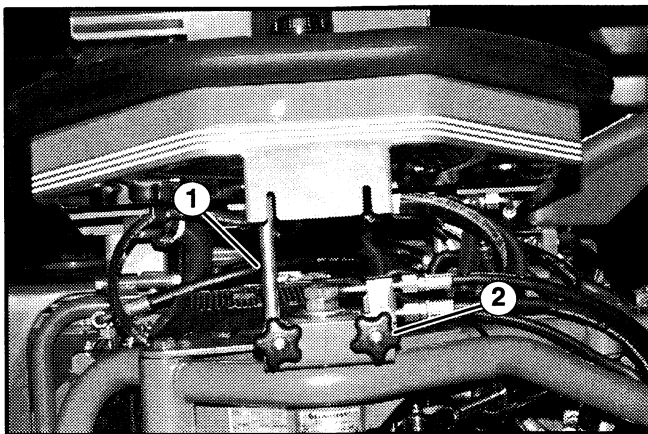


Figure 2  
1. Support Rod  
2. Hand Knobs

### GASOLINE ENGINES

The gasoline engine's identification numbers are on the plate located on the engine cowl (See Fig. 3).

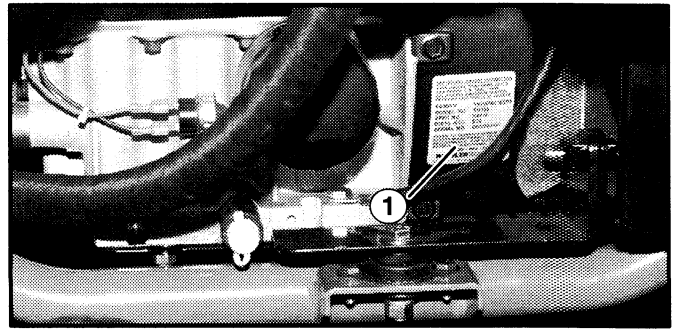


Figure 3  
1. Identification Nameplate Decal

### DIESEL ENGINES

The diesel engine's serial number is stamped into the block directly below the injector pump (See Fig. 4).

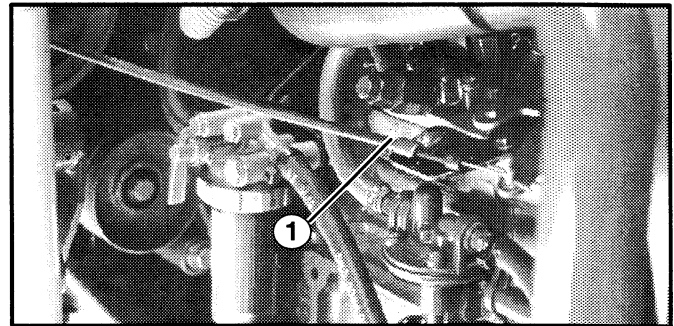


Figure 4  
1. Diesel Engine Serial Number

### CUTTING HEAD SERIAL NUMBERS

Identification numbers for each individual cutting head are on the nameplate decal located on the right side panel for models: 893591, 893589, and 893587 and on the left side for models: 67037, 67038, and 67039 (See Fig. 5).

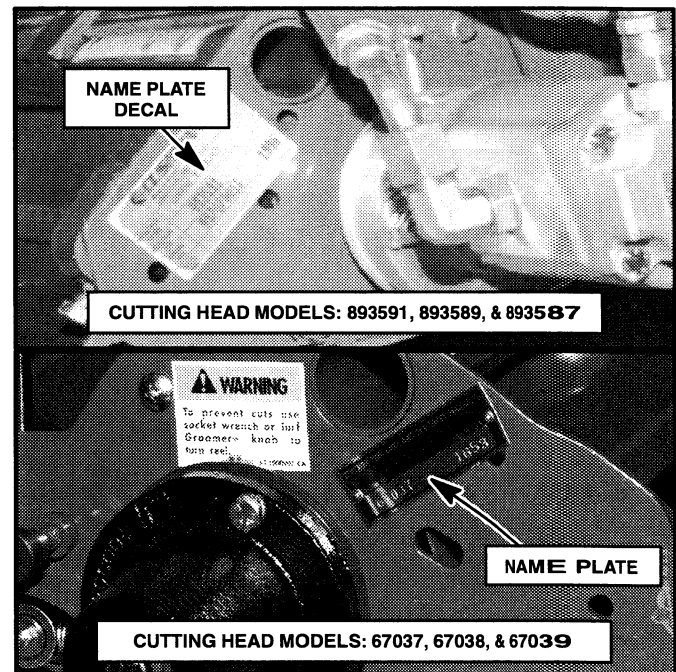


Figure 5  
1. Cutting Head Nameplate Decal

## SPECIFICATIONS

(subject to change without notice)

**Engine** ..... Kohler Model TH18S, 18hp.  
V-twin, air-cooled gasoline engine.  
Spec. No. 54531

High Idle Speed ..... 3400 RPM  
Low Idle Speed ..... 1500 RPM  
Oil filter ..... PN 842502  
Spark plug ..... PN 842514  
Fuel filter ..... PN 844770  
Air filter ..... PN 844768  
Pre-cleaner element ..... PN 844769

**OR** ..... Kubota model D722B-1, 18 hp.  
three cylinder, liquid cooled diesel engine

High Idle Speed ..... 3400 RPM  
Low Idle Speed ..... 1500 RPM  
Oil filter ..... PN 840160  
Air filter element ..... PN 840352  
Fuel filters  
Primary ..... PN 825619  
Secondary element ..... PN 840161  
(See engine manual for additional specifications)

### Speed (maximum):

Transport ..... 7.5 MPH (12 Km/h)  
Mowing ..... 3.8 MPH (6.1 Km/h)  
Reverse ..... 2 MPH (3Km/h)

### Hydraulic System:

Traction Drive Pump ..... Sundstrand 15-Series  
Traction Motors ..... Parker-Ross ME10  
Reel Drive Pump ..... J.S. Barnes W900  
.488 in<sup>3</sup>/Rev (8cc/Rev)  
Reel Motors ..... J.S. Barnes W600  
.73 in<sup>3</sup>/Rev (12cc/Rev)  
Reservoir Capacity ..... 4.8 gal. (18.2 L)  
Total System Capacity ..... 6.8 gal. (25.7 L)  
Ransomes® Turf Protector™  
2.5 gal. (9.7 L) ..... PN 65363  
5 gal. (18.9 L) ..... PN 65352  
55 gal. (208 L) ..... PN 65354  
(Alt. Texaco Rando HDZ-32)  
*See oil selection guide*  
Hydraulic Filters  
2 ea, 25 micron (suction) ..... PN 522972

### Dimensions:

Width Of Cut ..... 62" (1.6m)  
Overall Width (w/reels and catchers) 74.5" (1.9m)  
Overall Length (w/reels and catchers) . 98" (2.5m)  
Overall Height ..... 49.4" (1.25m)  
Wheel Base ..... 49.7" (1.26m)  
Front Wheel Tread (width) ..... 48" (1.2m)  
Weight w/o reels (gasoline) ..... 1052 lb (478 kg)  
Weight w/reels (gasoline) ..... 1264 lb (574 kg)

Weight w/o reels (diesel) ..... 1178 lb (535 kg)

Weight w/reels (diesel) ..... 1388 lb (631 kg)

**Fuel Tank Capacity:** ..... 8 gal. (31 L)

**Coolant Capacity: (diesel only)** ..... 1 gal. (3.8 L)  
50/50 mixture of clean water and ethylene glycol  
(antifreeze)

**Battery** ..... 12 volt  
BCI Group ..... Size 24  
Cold Cranking Amps (min.) ..... 430  
Reserve Capacity Minutes (min.) ..... 70  
Ground Terminal Polarity ..... Negative  
with SAE taper posts

### Brakes

Positive Hydrostatic Braking  
6" (152 mm) Caliper Disk Parking Brake

### Electrical:

Alternator ..... Gas – 15 AMP  
Diesel – 40 AMP

### Steering:

Rear Wheel Steering  
Power Steering, 2.5 turns lock to lock  
13" (330mm) dia. Steering Wheel

**Tires:** ..... 20 x 10.00 – 10 Smooth tread

### Noise and Vibration Levels:

Greensplex II Gas at 3400 RPM  
Sound pressure level ..... 83.0 dB(A) LpA  
Sound power level ..... 100 dB(A) LWA  
Vibration Level ..... 3.92 m/sec.<sup>2</sup>

Greensplex II Diesel at 3400 RPM

Sound pressure level ..... 85 dB(A) LpA  
Sound power level ..... 102 dB(A) LWA  
Vibration Level ..... 1.67 m/sec.<sup>2</sup>

### Standards

Conforms to European Community (EC) standard  
89/392 and amendments 91/368 and 93/44/EEC.

### IMPORTANT!

CALIFORNIA PUBLIC RESOURCES CODE,  
SECTIONS 4428-4442, REQUIRE **SPARK  
ARRESTERS** WHEN OPERATING ANY INTERNAL  
COMBUSTION ENGINE USING HYDROCARBON  
FUELS, ON FOREST-, BRUSH-, OR  
GRASS-COVERED LANDS.



### WARNING

- This manual deals with service and maintenance functions. These functions must be performed as specified and must be done by properly trained service personnel only.

## CONTROLS

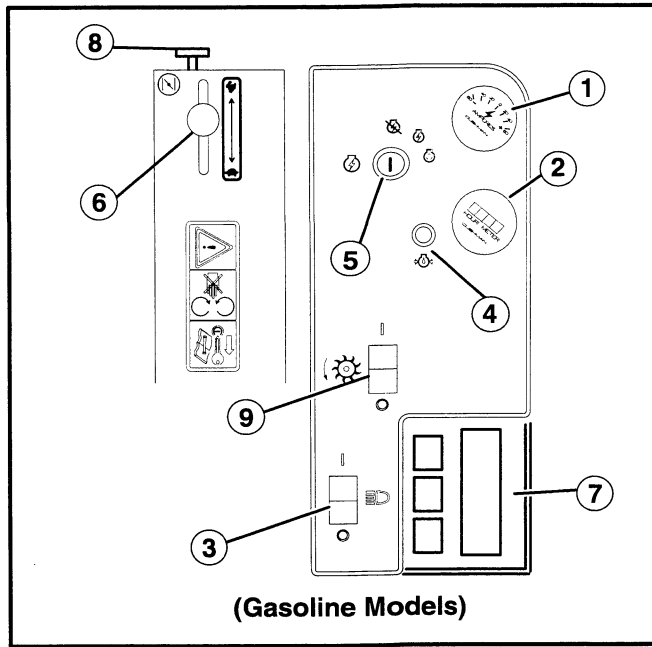


Figure 6

1. Ammeter
2. Hour Meter
3. Headlight Switch
4. Engine Oil Warning Light
5. Ignition Switch
6. Throttle
7. Turf Protection System (optional)
8. Choke (Gasoline Models)
9. Reel Enable Switch

**Ammeter** – indicates amount of electrical flow at the battery. Under normal operating conditions the needle will be on the plus (+) side of the meter, showing that current is being supplied to the battery.

At idle speed, the indicator may be at zero or on the negative (–) side. A continuous negative reading at normal operating speed indicates a malfunction in the charging system that should be checked immediately.

**Headlight Switch** – turns the headlights on and off.

**Engine Oil Warning Light** – will come on when the engine oil pressure is too low for operation.

**Ignition Switch** – has four positions:

**OFF** – prevents all electrical functions from operating. Switch must be in the OFF position to remove the key.

**ON** – for normal operation.

**START** – engages the starter. Release the key after engine starts (the switch automatically returns to ON).

**ACC.** – has no function on this unit.

**Choke** – **Gasoline engines ONLY**, pull out as required to start the engine. Push back in after engine starts.

## NOTICE

- If the engine fails to start, or if it “dies” for any reason, the ignition switch must be returned to the OFF position before restarting is attempted. This feature prevents damage to the starter and flywheel teeth that can occur if the starter is engaged while the engine is running.

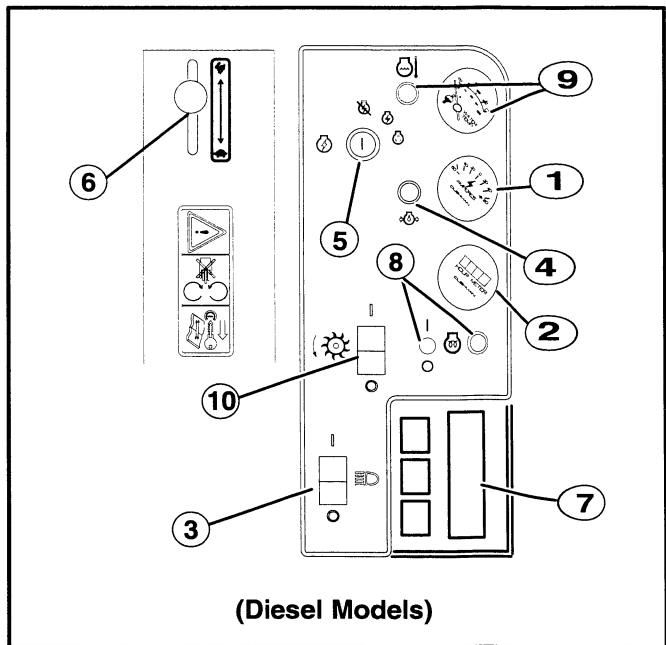


Figure 7

1. Ammeter
2. Hour Meter
3. Headlight Switch
4. Engine Oil Warning Light
5. Ignition Switch
6. Throttle
7. Turf Protection System (optional)
8. Pre-Heat Switch and Glow Plug Light
9. Temperature Gauge And Warning Light
10. Reel Enable Switch

**Throttle** – Push all the way forward for normal engine operating speed, and all the way back for idle.

**Hour Meter** – records the number of hours the engine has run. Use the hour meter to manage a good scheduled maintenance program (refer to the Maintenance Guide).

**Pre-Heat Switch and Glow Plug Light** – With key switch ON, push up/forward and hold the pre-heat switch until the glow plug light goes out (**Diesel Only**).

**Temperature Gauge and Warning Light** – gauge indicates coolant temperature and light warns of overheat situation (**Diesel Only**).

**Turf Protection System** – can be installed as an option to warn the operator if a leak in the hydraulic system is detected.

## CONTROL PEDALS

The **Direction/Speed Pedal** (See Fig. 8) controls speed and direction. Depress front of pedal to go forward, depress back of pedal to go backward.

Increased movement of the pedal will increase speed.

To slow and stop the unit, release the pedal completely. Proper braking is provided by hydrostatic pressure. If more braking is required, press on the brake pedal.



### WARNING

- **DO NOT attempt to force the direction control pedal to the neutral (stop) position or to change directions before coming to a complete stop. Abrupt stops or changes in direction may cause injury.**

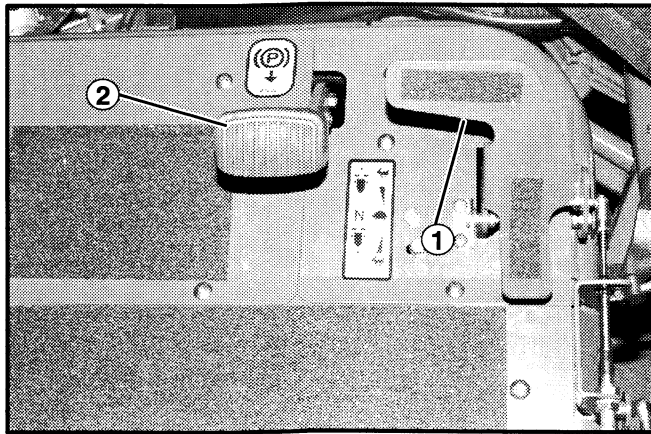


Figure 8

1. Direction/Speed Pedal
2. Brake Pedal

## PARKING BRAKE PEDAL

The **Parking Brake** can be engaged by depressing the brake pedal until the unit is at a complete stop. Once the unit is stopped, push the parking brake latch forward to hold the brake pedal. Disengage the parking brake by depressing and releasing the brake pedal.

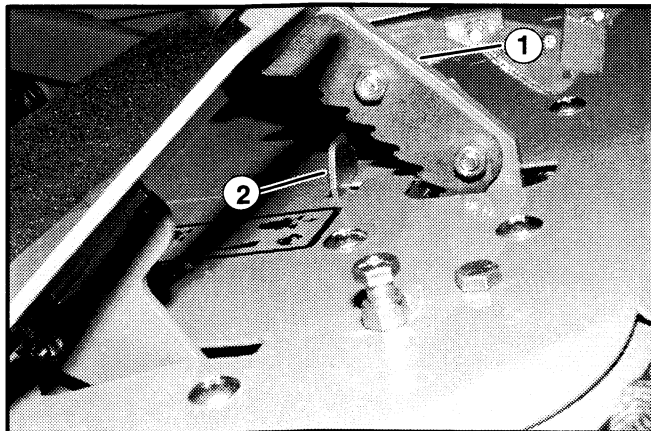


Figure 9

1. Brake Pedal
2. Park Brake Latch

### NOTICE

- To reduce fatigue during normal forward operation, the operator's heel should rest on the floorboard next to the pedal (**not on the lower part of the pedal**).

The **Mow/Lift Pedal** (See Fig. 10) lowers and raises the cutting heads.

**To Lower the Heads:** Depress the front of the pedal into the lowered head position. If reel enable switch is on, reel rotation starts when the heads are lowered.

**To Raise the Heads:** Depress the back of the pedal into the raised head position. Reel rotation stops when the heads are raised.

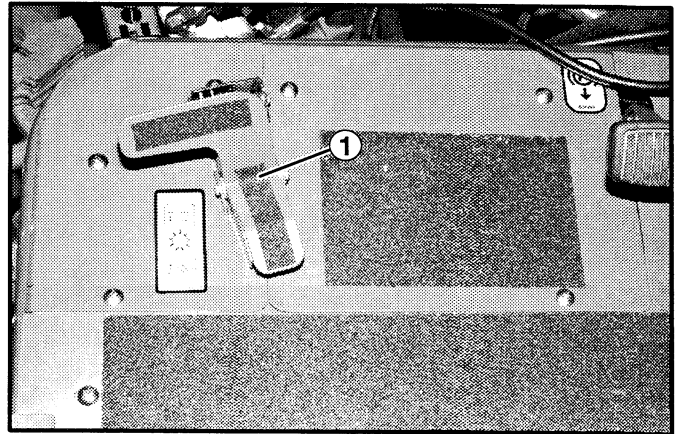


Figure 10

1. Mow/Lift Pedal

## HYDRAULIC PUMP BYPASS VALVE

The **Bypass Valve** allows the unit to be pushed or towed. Turn the handle on the bottom of the pump counterclockwise (as viewed from the bottom of the pump) to open the valve. After moving the unit, close the valve by turning the handle clockwise.

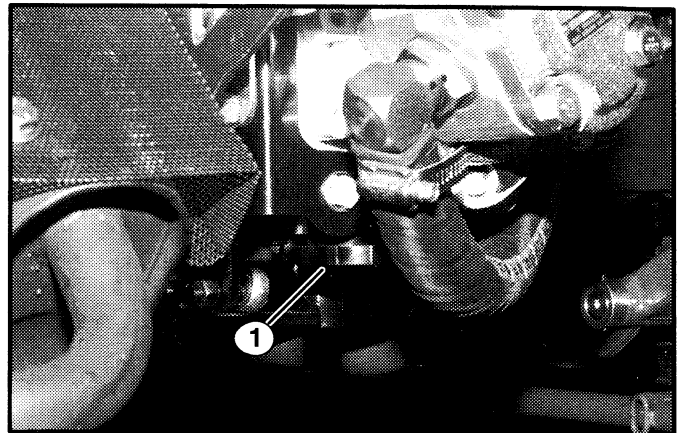


Figure 11

1. Bypass Valve Handle

### NOTICE

- The bypass valve must be tightly closed for normal operation or a significant loss of speed will occur and may cause serious damage to the hydrostatic pump.

## REAR SWING OUT ARM

### NOTICE

- The rear swing out arm is to allow you easy access to the rear cutting head. The cutting heads **MUST BE** in the raised position. **DO NOT** swing the arm out with the cutting heads in the lowered position.



### WARNING

- To avoid the possibility of serious injury, **ALWAYS** be properly seated in the operator's seat while the engine is running.
  - To avoid the possibility of serious injury, **ALWAYS** switch the reel enable switch to the off position, stop the engine, remove the key, and set the parking brake each time you leave the operators seat.
- The grass catcher **MUST BE** removed before you swing the arm out.
  - Release the draw latch (See Fig. 12).
  - Pull the handle and swing the rear arm and cutting head out.
  - After you are properly seated in the operator's seat, restart the unit and lower the cutting heads.
  - Shut off the unit and remove the rear cutting head for service.
  - After you have completed your servicing, secure the cutting head to the rear arm.
  - After you are properly seated in the operator's seat, restart the unit and raise the cutting heads.
  - Shut off the unit and swing the rear arm back under the unit and secure the arm with the draw latch (See Fig. 12).
  - Install the grass catcher.



### WARNING

- NEVER** attempt to drive the unit while the rear arm is not secured by the draw latch. Driving the unit with the rear arm out, will result in damage to the unit, or causing serious injury or death of you the operator or bystanders.

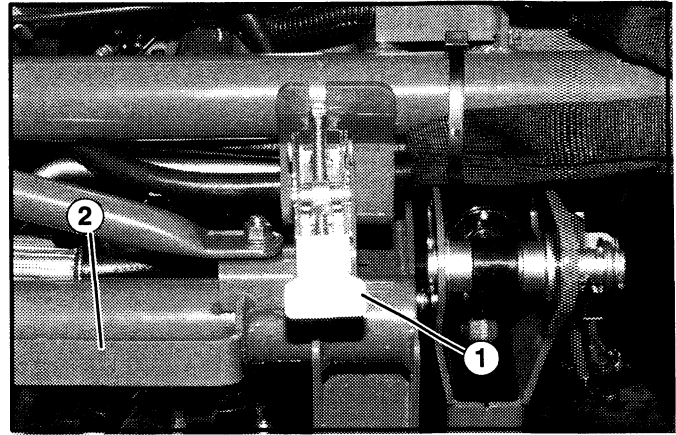


Figure 12  
1. Draw Latch  
2. Handle

## ADJUSTMENTS



### WARNING

- Adjustment procedures must be performed as specified by properly trained service personnel **ONLY**. If assistance is needed, contact your local Textron Dealer.
- To avoid the possibility of serious injury, switch the reel enable switch to the off position, lower the heads, stop the engine, remove the key, and set the parking brake **BEFORE** making any adjustment.
- NEVER** rotate the cutting reel by pushing it with your hands or fingers. Fingers can become caught between the reel and the frame resulting in serious injury. Use a ratchet with a  $\frac{9}{16}$ " socket on the end of the cutting head shaft to rotate the reel during adjustment and testing (See Fig. 13).

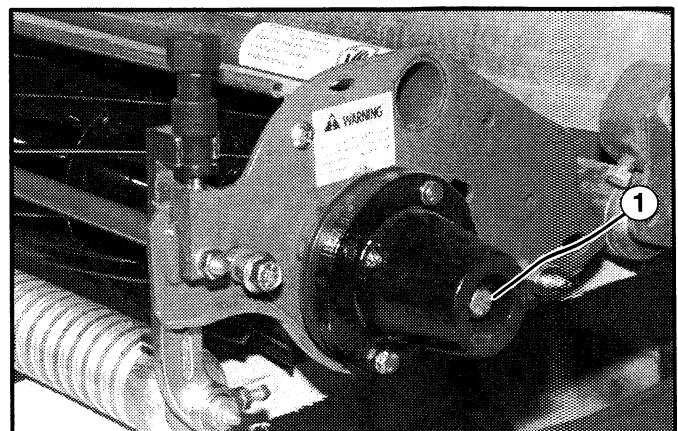


Figure 13  
1. Rotate Cutting Reel with this Screw Head

## BEDKNIFE ADJUSTMENT

For this adjustment, the backlap valve control lever must be in the center “*neutral*” position so that the reels can be rotated manually.



### WARNING

- To avoid the possibility of serious injury, **NEVER** attempt any cutting head adjustment while the engine is running.

Any adjustment to the clearance between the reel blades and the bedknife should be done at the leading end of the reel first (the end at which each individual blade first crosses the bedknife). Then at the opposite end of the reel.

1. Loosen the **lower** adjustment screws at each end by turning them approximately 1/4 turn counterclockwise (See Figure 14).
2. While rotating the reel backwards, turn the **upper** adjustment screws (leading end first) until there is approximately .001" (.025mm) clearance. After adjusting both ends, recheck the leading end.

### NOTICE

- **Too much clearance** between the bedknife and the blades will result in **poor cutting quality**. **Too little clearance** will cause **excessive wear** to the cutting edges and may cause damage to the bedknife, reel blades or other components.

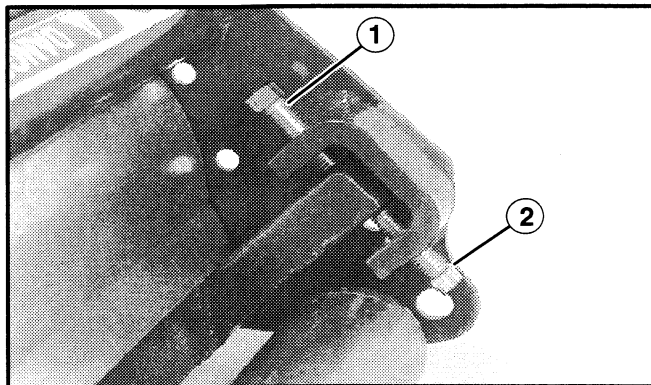


Figure 14

1. Upper Adjustment Screw
2. Lower Adjustment Screw

3. Rotate the reel forward. **The reel must turn freely** and you should just be able to hear the reel blades making slight contact with the bedknife.
4. After the bedknife is properly adjusted, tighten the **lower** adjustment screw at each end.
5. Test the cutting head by holding two strips of newsprint perpendicular to the bedknife. Rotate the reel with a wrench. The reel **must turn freely** and each blade on the reel should cut one of the two strips of paper.

## HEIGHT OF CUT

### NOTICE

- All three cutting heads **MUST** be accurately set at the same height of cut to insure an even cut.
  - Bedknife adjustment must be made before setting the height of cut.
1. Set the height of cut on the gauge block (Part No. 892010) by turning the wingnut until the distance between the bottom of the screw head and the top of the gauge block equals the desired height of cut (See Fig. 16).
  2. Loosen the locking nut on **one** of the front roller adjusting brackets just enough to allow adjustment (See Fig. 15).

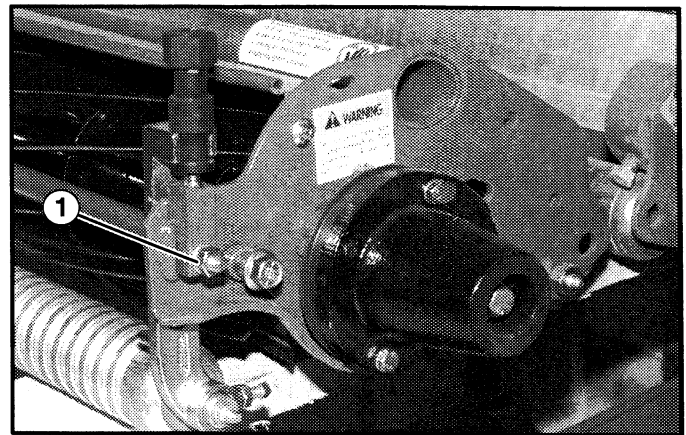


Figure 15

1. Loosen Locking Nut

3. Hold the gauge block across the bottom of both the front and rear rollers near the roller adjustment bracket and adjust the front roller until the cutting edge of the bedknife comes up to touch the bottom of the gauge screw head (See Fig. 16).

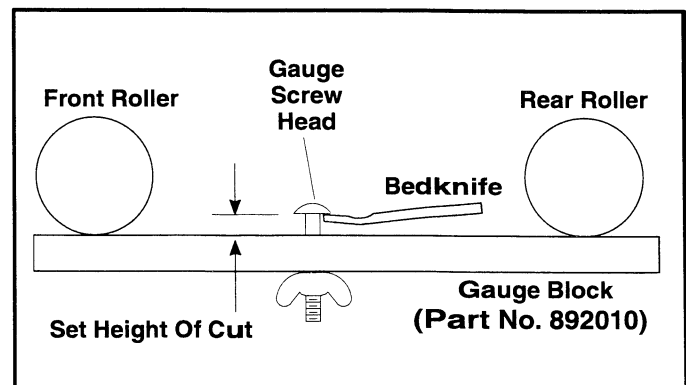


Figure 16

### Height of Cut Adjustment

4. Tighten the locking nut and repeat the procedure at the other end. After adjustment has been made at both ends, go back and recheck both ends.
5. Make sure all three cutting heads are set without changing the height of the gauge screw.

## LEVELING LINKAGE FOR THE FRONT CUTTING HEADS



### WARNING

- This procedure must be performed as specified and only by properly trained service personnel.
- During this entire procedure the reel enable switch must be in the off position. Turning on the reel enable switch will result in damage to the unit and/or serious personal injury or death to you the operator or bystanders

### NOTICE

- The dimensions in figure 17 are factory preset and the leveling linkage should not need adjusting. After some time the linkage may require some adjusting. If it is required, only make adjustments on the adjusting connector (See Fig. 17).
1. With the unit on a level surface (recommend concrete surface), place cardboard underneath all three of the cutting heads.
  2. An additional person is needed to stand 10' (3 M) in front of the unit to check on how level the front heads are when lowering. Lower the cutting heads and ensure the entire width of the front heads are parallel with the level surface as the heads touch the cardboard.
  3. If they do not touch evenly, make an adjustment using the adjusting connector. Repeat procedure as needed until the two front heads touch evenly on the level surface.

### NOTICE

- On the end of the leveling rod with the springs and lock collar, the dimensions are factory set and should never have to be changed. (See Fig. 17)

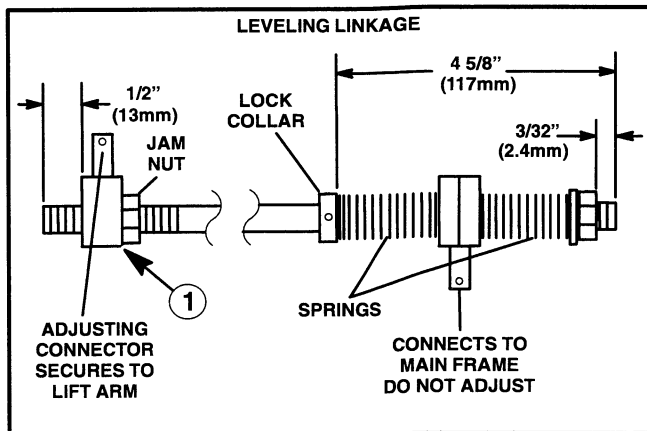


Figure 17

#### 1. Adjusting Connector

## MOW/TRANSPORT SPEED CONTROL

When **cutting heads are raised** completely, the wheel **drive speed** range is 0 - 7.5 mph (0 - 12 Km/hr). Speed is controlled by use of the direction/speed control pedal as described in control pedals section.

When **cutting heads are lowered**, the forward movement of the direction/speed control pedal is restricted by the automatic mow speed control linkage (the bellcrank stop screw contacts the foot pedal tab which rotates the pedal upward. This in turn reduces the ground speed of the unit for mowing). The **mow speed** range is 0 - 3.8 mph (0 - 6.1 Km/hr).

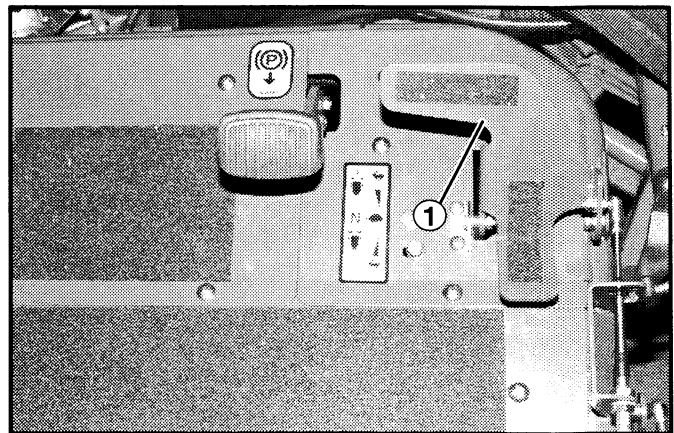


Figure 18

#### 1. Direction/Speed Pedal

## ADJUSTING MOW SPEED

To determine mow speed, run a time check on how fast the unit travels in a distance of 50' (15.24 M). Prepare a level surface with enough room to start and end beyond the 50' marks.

Place a stake in the ground where you want to begin timing the unit. Measure and place another stake at a distance of 50' (15.24 M). Lower the cutting heads and press the direction pedal forward so the unit is traveling at full throttle (the cutting heads should be in the neutral position when timing the unit).

Begin timing the unit when the center of the front tire aligns with the first stake. Stop timing when the center of the front tire aligns with the stake placed at 50' (15.24 M). Estimated time for 3.8 mph (6.1 Km/hr) will be approximately 8.8 to 9.2 seconds. If there is a significant difference in the times listed above, you can adjust the mow speed as follows.



## WARNING

- This procedure **MUST** be performed as specified and only by properly trained service personnel.

Adjusting the speed control screw **out (increasing length)** will **reduce** the mow speed. Adjusting the speed control screw **in (shortening length)** will **increase** mow speed.

Determine which direction to adjust the mow speed screw. Loosen the locking nut and adjust speed control screw, snug up the locking nut and run the time test again, repeat as necessary. When correct mow speed has been obtained, tighten the locking nut (See Fig. 19).

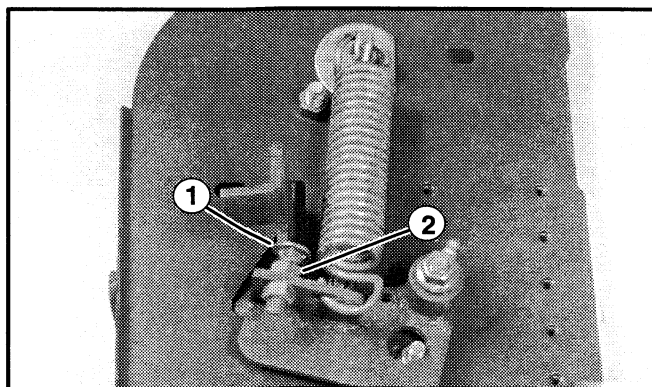


Figure 19

1. Mow Speed Adjustment Screw
2. Locking Nut

## TO SET BELLCRANK STOP SCREW:

### NOTICE

- The bellcrank stop screw has been set at the factory and should **NOT** require adjustment. If stop screw is loosened or removed, it **MUST** be properly installed and adjusted prior to unit operation.

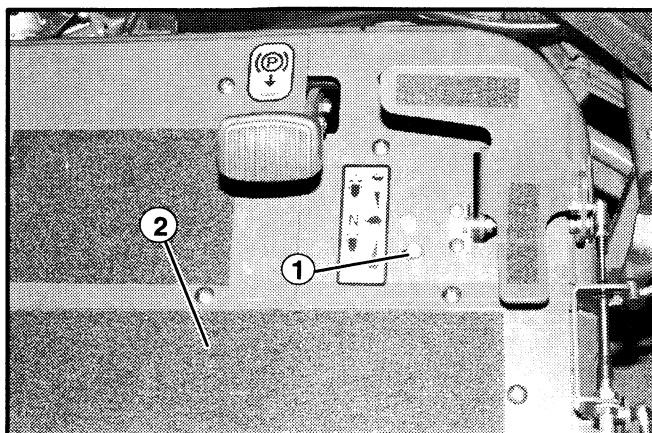


Figure 20

1. Bellcrank Stop Screw
2. Center Foot Panel

Remove the screws securing the center foot panel and remove panel (this will allow access to the lockout link angle).

Loosen the nut on the bellcrank stop screw just enough to allow the screw to be slid to the left of the slot (See Fig. 21). Rotate bellcrank clockwise (as viewed from above) and hold the bushing on the lockout link angle to the left end of the lockout link slot (See Fig. 22).

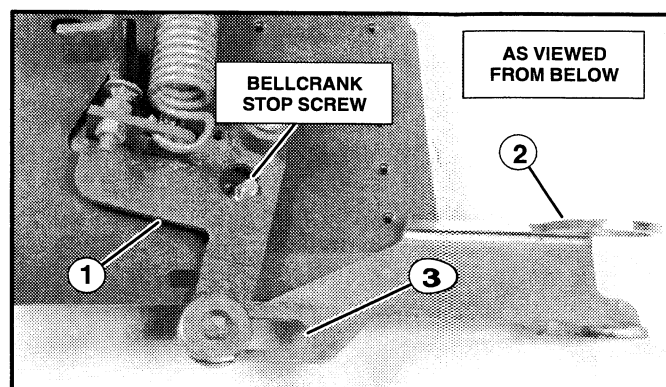


Figure 21

1. Bellcrank
2. Lockout Link Angle
3. Lockout Link slot

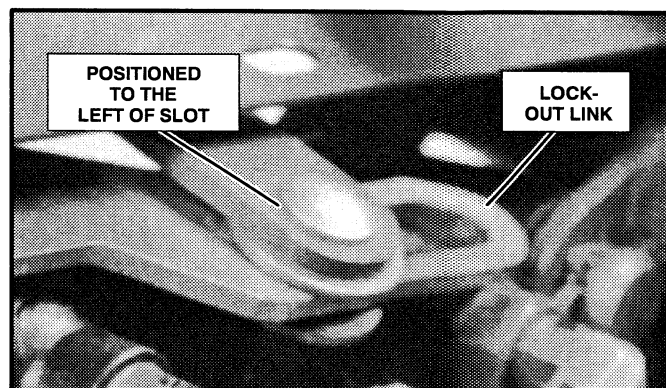


Figure 22

Position Bushing to Left of Slot

Slide the bellcrank stop screw to the left of the slot located in the foot panel (See Fig. 20) making sure the bellcrank contacts the stop screw. With the screw held tightly against the bellcrank, tighten the stop screw nut.

Install the center foot panel.

## CUTTING HEAD LIFT AND LOWER TIMING

Cutting head lift and lower timing are controlled by the sequence control and normal open limit switches. The sequence control switch, located above the left front cutting head, (See Fig. 23) allows hydraulic oil to flow to the rear lift cylinder. This sets the proper timing for the lifting and lowering between the front heads and the rear head. The limit switches, located above the rear cutting head, (See Fig. 23) shuts the oil flow off when the rear cylinder is fully extended or retracted.

1. With the cutting heads lowered and cylinders fully retracted, check the dimension of  $1/16"$  (1.6mm) between the cam and ear and the same dimension between the switch bracket and ear (See Fig. 23).

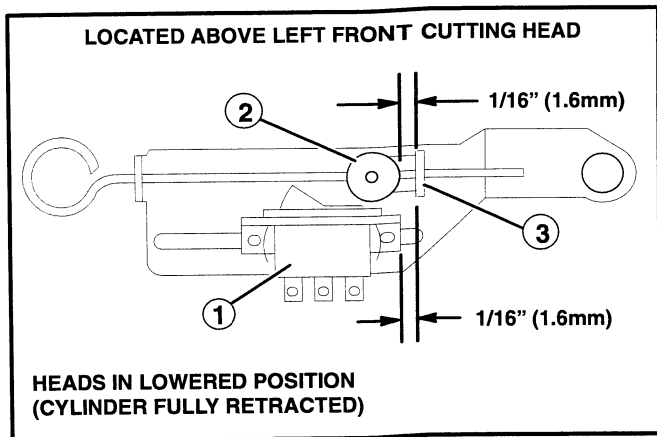


Figure 23

1. Sequence Control Switch
2. Cam
3. Ear of Bracket

2. Once you have completed setting the sequence control switch, move to the limit switches above the rear head (See Fig. 24).
3. With the heads lowered and cylinders fully retracted, check the dimension of  $1/8"$  (3.2mm) between the cam and ear. While they are still retracted, check the dimension of  $8 \frac{7}{16}"$  (214mm) from pin to pin (See Fig. 24).

### NOTICE

- **BE SURE** the retract switch opens at  $8 \frac{7}{16}"$  (214mm) measured from pin to pin. If it does not open, hydraulic pressure will continue and damage the system.

From pin to pin check the dimension of  $11 \frac{5}{16}"$  (287mm) when the heads are raised and the cylinders are fully extended (See Fig. 24).

### NOTICE

- **BE SURE** the extend switch opens at  $11 \frac{5}{16}"$  (287mm) measured from pin to pin. If it does not open, hydraulic pressure will continue and damage the system.

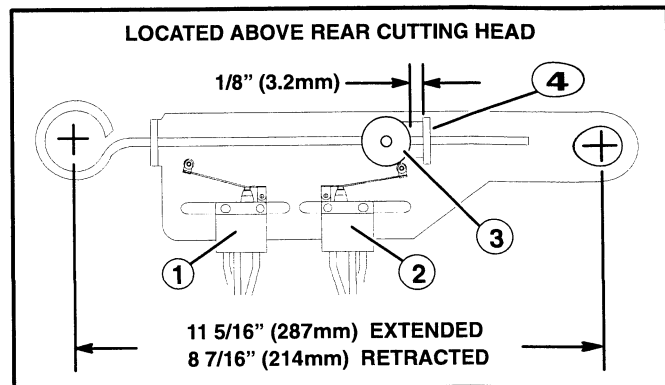


Figure 24  
Normally Closed Limit Control Switches

1. Extend Switch
2. Retract Switch
3. Cam
4. Ear of Bracket

## STARTING THE ENGINE (GASOLINE)

1. Operator must be properly seated in the operator's seat.

For maintenance purposes only, and when operated by trained service personnel the engine may be started without the operator seated if the reel control lever on the backlap valve is in the backlap position refer to Fig. 36, on page 20.

2. Make sure foot is off direction/speed control pedal. The mow raise pedal must be in the raised position and the reel enable switch must be in the off position before the engine will start.
3. Push hand throttle lever forward to a **"MIDDLE"** position.
4. Insert the key into the ignition switch and turn the switch to **"START"** (Pull the choke control out as necessary to start the engine. Push it back in after engine starts).
5. After the engine starts, allow the engine to warm up for at least one minute.

### NOTICE

- The starter motor should never be run for more than 10 seconds. If the engine does not start after operating the starter for 10 seconds, stop the starter. Wait for 30 seconds and repeat the start sequence.
- If the oil light comes on during operation, stop the engine immediately. To avoid serious engine damage, find and fix the problem before restarting.

## STARTING THE ENGINE (DIESEL)

When starting a diesel engine for the first time, after prolonged storage or if the fuel tank is allowed to run dry, the fuel system must be bled before attempting to start the engine. Refer to **Bleeding The Fuel System** below.

### After bleeding the system (if required):

1. Operator must be properly seated in the operator's seat (for maintenance purposes only, and when operated by trained service personnel the engine may be started without the operator seated if the reel control lever on the backlap valve is in the backlap position refer to Fig. 36, on page 20).
2. Make sure foot is off direction/speed control pedal. The mow raise pedal must be in the raised position and the reel enable switch must be in the off position before the engine will start.
3. Push hand throttle lever forward to a **"MIDDLE"** position.
4. Insert key in ignition switch and turn to **ON** position.
5. Push and hold the pre-heat switch forward. The red indicator light will come on. When the light goes out, release the pre-heat switch and start the engine (If the engine has been running and is already warm, there should be no need to pre heat the glow plugs).
6. After the engine starts, allow it to warm up for at least one minute.

### NOTICE

- The starter motor should never be run for more than 10 seconds. If the engine does not start after operating the starter for 10 seconds, stop the starter. Wait for 30 seconds and repeat the start sequence.
- Do not use ether or starter fluid; severe engine damage may occur.
- 7. After the engine starts, check the following:
  - Make sure the oil pressure light goes off
  - The exhaust should be colorless or slightly dark when engine is under load

### NOTICE

- If the oil light or water temperature light and buzzer come on during operation, stop the engine immediately. To avoid serious engine damage, find and fix the problem before restarting.

## BLEEDING THE FUEL SYSTEM (DIESEL ENGINES ONLY)



### WARNING

- **This procedure must be performed as specified and only by properly trained service personnel.**

The fuel system must be bled when:

- Starting the engine for the first time
- The fuel tank becomes completely empty

- The engine has not been used for an extended period of time
- The fuel filter and/or fuel lines have been loosened, removed or replaced.

Primary fuel filter ..... PN 825619

Secondary fuel filter element (See Fig. 25)

..... PN 840161

1. Fill the fuel tank.
2. Open the air vent on top of the fuel filter (See Fig. 25).
3. **Without preheating the glow plugs**, turn the ignition switch to **START** to operate the fuel pump. Allow the starter to run the pump until a steady stream of fuel is coming out of the fuel filter air vent. Stop the starter and close the air vent.

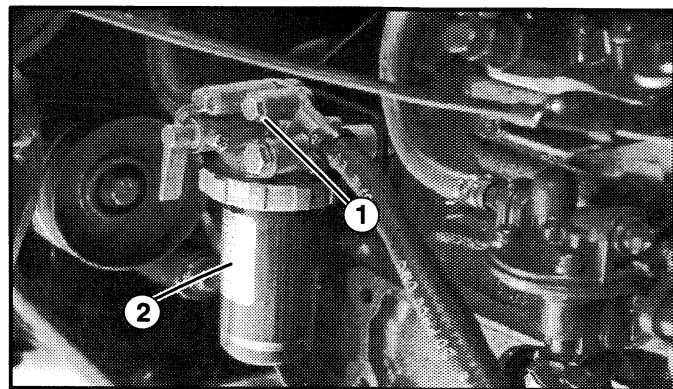


Figure 25

1. Fuel Filter Air Vent
2. Secondary fuel filter

4. Open the air vent on top of the injection pump, **open air vent only when engine is NOT running** (See Fig. 26).

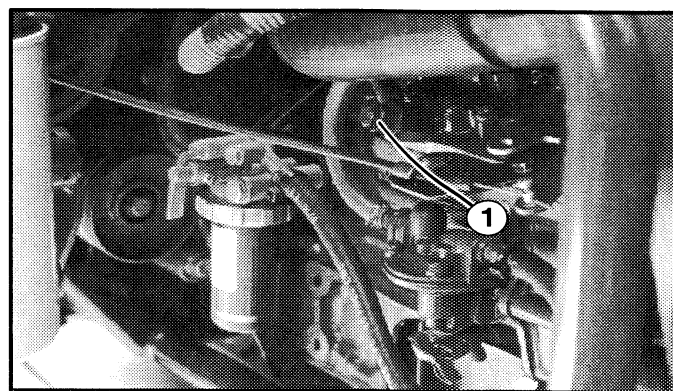


Figure 26

1. Injection Pump Air Vent

5. **Without preheating the glow plugs**, turn the ignition switch to **START** to operate the fuel pump. Allow the starter to run the pump until a steady stream of fuel is coming out of the injection pump air vent. **Stop** the starter and close the air vent.



### WARNING

- **Catch fuel and dispose of properly.**
- **To avoid a fire hazard, clean up any spilled fuel.**

## ENGINE BREAK-IN (GASOLINE AND DIESEL)

All new engines require a break-in period. The service life of your engine is dependent upon how your engine is operated during the first 50 hours of operation.

1. **ALWAYS** idle and warm up your engine for at least one minute. In cold weather, allow the engine to warm up completely before operating the unit.
2. **NEVER** overload the engine.
3. Change oil after the **first 8 hours** for **gasoline** engines and after the **first 50 hours** for **diesel** engines:  
With the engine stopped and warm, drain the crankcase and remove oil filter. Install a new oil filter and refill the crankcase with proper oil.



### WARNING

- This oil change must be performed as specified and only by properly trained service personnel.
4. Refer to the Maintenance Guide for future service intervals.

## FREE WHEELING OR TOWING UNIT

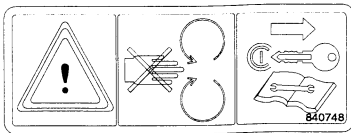
To prevent damage to the pump or wheel motors when **FREE WHEELING** or **TOWING**:

1. Engine must be **OFF** and **cool**.
2. Turn hydraulic pump lever on bottom of pump 180° counterclockwise to open position (as viewed from the bottom).
3. **FREE WHEEL** or **TOW unit slowly**, below 2 mph (3.2 Km/h).
4. Before starting engine, be sure to turn pump lever clockwise to fully closed position.

### NOTICE

- If pump lever is **not completely closed**, a significant loss of speed will occur. Operating the unit when the pump is not completely closed, may cause damage to the pump.

## SERVICE & MAINTENANCE



Keep hands out of moving parts. Shut off the engine and remove the key before servicing equipment.



### WARNING

- When replacement parts are required, use genuine Ransomes parts or parts with equivalent characteristics including type, strength and material. Failure to do so may result in product malfunction and possible injury to the operator and/or bystanders.

- Never attempt to perform service or maintenance functions on the unit if you are **UNTRAINED** or **UNAUTHORIZED**. Improper maintenance can cause hazardous conditions. See your authorized dealer for necessary maintenance and service.
- When it is necessary to raise the unit for any repair or service, use jackstands to provide adequate support. **DO NOT** rely on hydraulic or mechanical jacks.
- Always replace any warning decal that becomes hard to read.

## FUEL RECOMMENDATIONS

Fuel tank should be filled to within 1/2" (13mm) below the bottom of the filler neck. **DO NOT over fill the tank.**

### DIESEL FUEL RECOMMENDATION

Use #2 diesel fuel (ASTM No. 2D) when temperature is above 20°F (-7°C).

Use #1 diesel fuel (ASTM No. 1D) when temperature is 20°F (-7°C) or below.

### NOTICE

- NEVER use No. 2D at temperatures below 20°F (-7°C) unless you are sure it has been "winterized". Cold temperatures will cause fuel to thicken which may keep your engine from running.
- If No. 1D is not available, a "winterized" blend of No. 1D and No. 2D may be available. This blended fuel is usually called No. 2D also and may be used in colder temperatures.
- If the vehicle fuel tank is being filled for the first time or if the vehicle was allowed to run out of fuel, it will be necessary to bleed the air from the fuel system (refer to "Bleeding The Fuel System").

### GASOLINE RECOMMENDATION

Unleaded gasoline ..... 87 Octane or higher

We **DO NOT** recommend the use of **ALCOHOL** bearing fuels in any of our products. The use of these fuels may create a potential safety hazard.



### WARNING

- Gasoline containing **ALCOHOL** can cause deterioration of some non-metallic materials in the fuel system.
- Fuel hoses must be inspected frequently and replaced if excessive stiffness, deterioration or fuel leakage is found
- Gasoline containing **ALCOHOL** will attract and hold moisture inside fuel tanks. Moisture may cause corrosion of metallic parts within the fuel system.
- Fuel leakage from a fuel system can occur while the system is in use, in transit, or in storage. Such leakage can contribute to an explosion or fire, causing serious bodily injury or death.

### NOTICE

- The use of alcohol bearing fuels can cause engine malfunction, particularly "vapor lock" at temperatures above 50° F (10° C).

## ENGINE ACCESS

The rear section of the unit can be raised for better access to the engine. Loosen the two handknobs above the rear fork. Raise the fuel tank frame. Support it by pivoting the rod beneath the fuel tank down and securing it in the cup next to the fork pivot (See Fig. 27).



### WARNING

- **DO NOT** remove the fuel tank cap while the tank is in the raised position.

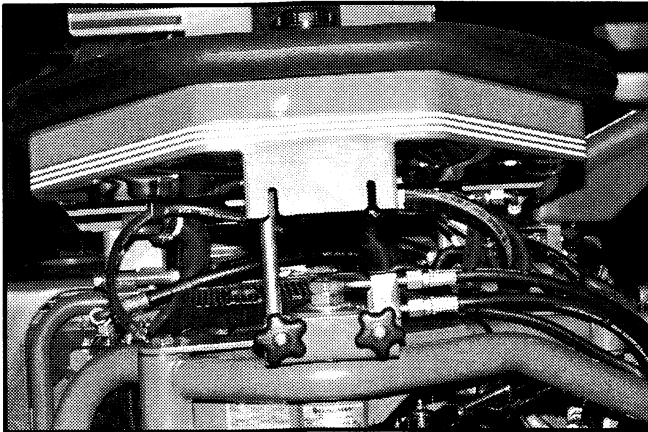


Figure 27  
Rear Section of Unit Raised

## MAINTENANCE GUIDE

The following maintenance charts have been compiled as a general guideline for service intervals, based on hours of operation. Refer to the engine manual for further maintenance information.

### AS REQUIRED

Replace air cleaner element

**Gas:** refer to the engine operator's manual

**Diesel:** refer to Air Cleaner section on page 17

### GASOLINE ENGINE OIL

Change engine oil and filter after the first 8 hours. Then every 50 hours of operation or yearly, whichever comes first.

### DIESEL ENGINE OIL

Change engine oil and filter after the first 50 hours. Then every 100 hours of operation or yearly, whichever comes first.

### NOTICE

- Depending on operating conditions, the engine oil and oil filter may need more frequent replacement to maintain engine performance and help prevent unnecessary repairs.

### FIRST 35 HOURS

Check for loose parts  
Check valve clearance  
Check idle speed

### EVERY 25 HOURS OR WEEKLY

Lubricate all lubrication fittings (refer to Lube Chart)

### EVERY 75 HOURS

Check tire pressure (with low pressure tire gauge)  
Change fuel filters (diesel only)  
Check for loose parts

### EVERY 200 HOURS

Check valve clearance and adjust as required  
Change hydraulic oil and filter

### EVERY 500 HOURS

Fill engine coupler splines with DOW Gn assembly paste (Part No. 2700183). Refer to parts illustration on page 26 of this manual.

### EVERY 600 HOURS (OR YEARLY)

#### Perform previous services

Replace primary (large) fuel filter cartridge

Check starter motor brushes

Check all belts and hoses, replace as required

Clean battery terminals

#### Diesel:

Drain and replace engine coolant

Check glow plugs

Check injection pump and timing

## BACKLAPPING

Routine backlapping will help keep cutting blades sharp and increase reel life and performance. Backlapping frequency depends on many variables, but should be performed frequently as normal maintenance. Refer to the backlapping procedure located on page 19 of this manual.

## ENGINE OIL LEVEL

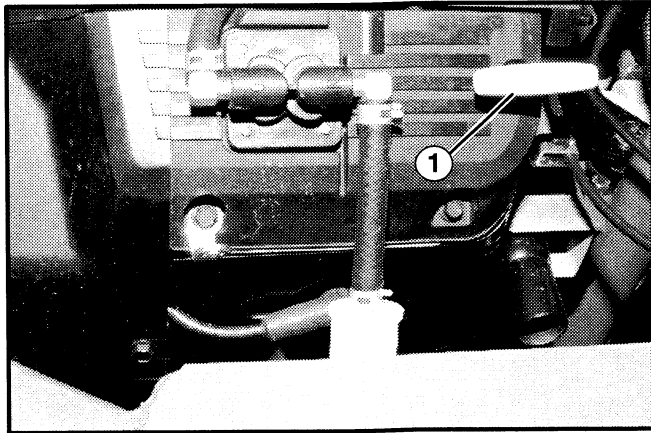
Damage to engines due to improper maintenance or use of incorrect oil quality and/or viscosity is not covered by the engine warranty.

Unit must be on a level surface to obtain an accurate oil level reading.

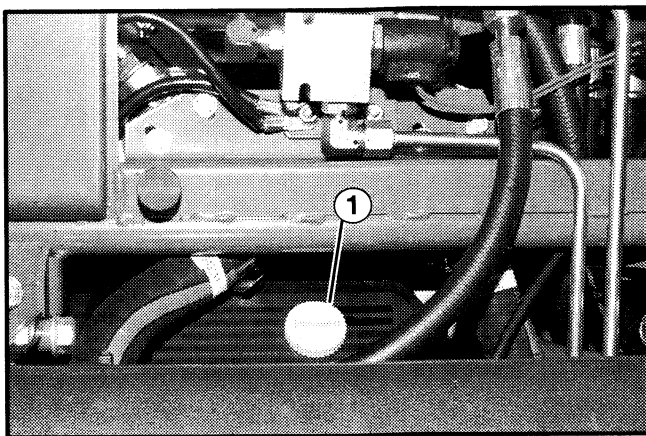
The oil level must be kept between the two marks on the dipstick (refer to the engine operator's manual for crankcase capacity and recommended oil grade and weight).

### NOTICE

- **DO NOT** overfill. Engine overheating and damage may result.

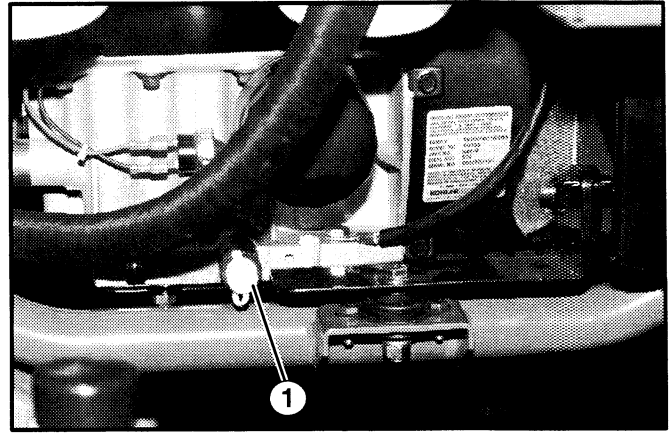


**Figure 28**  
**1. Dipstick (gasoline engine)**

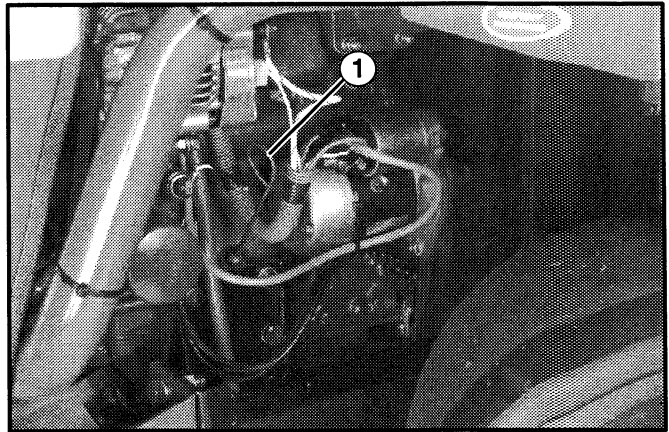


**Figure 29**  
**1. Oil Filler Port (gasoline engine)**

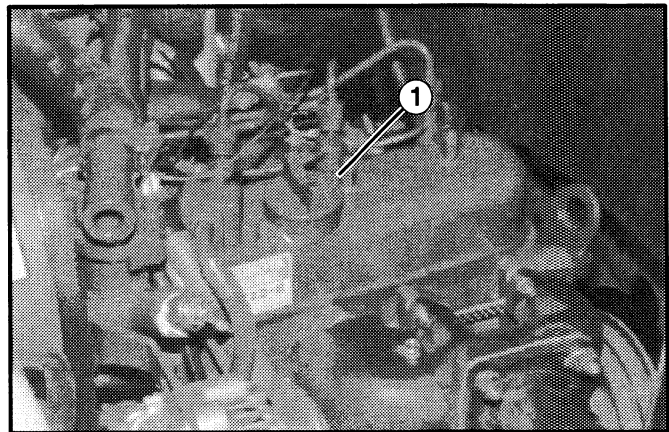
We have installed a special drain cock (PN 844547) for easier accessibility and reduce the chance of spillage (See Fig. 30). To drain the oil out of the gas engine you remove the cap and push the end of the drain cock in and turn it counterclockwise 1/2 turn and release.



**Figure 30**  
**1. Oil drain cock (gasoline engine)**



**Figure 31**  
**1. Dipstick (diesel engine)**



**Figure 32**  
**1. Oil Filler Port (diesel engine)**

**DO NOT** use a wrench when installing the filter, **use hand pressure ONLY.**

## ENGINE OIL FILTER

When replacing the oil filter, apply a light film of clean oil to the rubber seal. Screw filter on until the seal contacts the crankcase, then tighten 1/2 turn more.

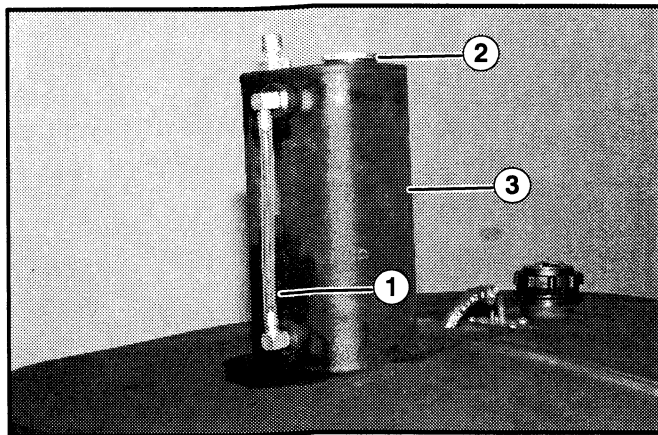
Oil filter (gasoline) ..... PN 842502  
Oil filter (diesel) ..... PN 840160

## HYDRAULIC SYSTEM

**Reservoir Capacity** . . . . . 4.8 gal. (18.2L)

**Total System Capacity** . . . . . 6.8 gal. (25.7L)

To check the hydraulic fluid level on units that **DO NOT** have the electronic Turf Protection System (leak detector), locate the sight glass on the tower portion of the reservoir. Visually inspect to see if there is 1/2" (13mm) (at ambient temperature) of oil visible above the lower portion of the sight glass. If not, unscrew the reservoir cap and fill to proper level (See Fig 33).



**Figure 33**

1. Sight Glass
2. Reservoir Cap
3. Tower

## HYDRAULIC OIL

The hydraulic fluid reservoir is filled at the factory with Ransomes® Turf Protector™ Biodegradable hydraulic fluid.

If desired, mineral oil may be used in place of the Ransomes® Turf Protector™ hydraulic oil.

When changing to mineral oil, drain the reservoir and replace the hydraulic oil filters. **The system does not have to be flushed out when changing over.** As a mineral oil alternative to the Ransomes® Turf Protector™ Biodegradable hydraulic oil, (Texaco Rando HDZ-32) will provide optimum performance in the lower and mid-range temperature environment most often encountered with Greensmower use. A straight-viscosity ISO 46 type fluid is recommended for higher temperature environment.

Determination of the proper mineral oil hydraulic fluid for your application will require selection of a set of conditions that best matches your particular situation. It is recommended that you then use that type of fluid year round rather than changing fluid types on a seasonal basis.

### 32/46 Multi-Viscosity Fluid

The 32/46 multi-viscosity type fluids allow normal operation at lower ambient temperatures with less increase in viscosity. These fluids are recommended for

operating temperature environment consistently below 90°F (32°C).

### 32/46 Multi-Viscosity Anti-wear Hydraulic Oils

Texaco Rando HDZ-32  
Texaco Rando HD Z-36 Premium HVI  
Amoco Hydraulic All Weather  
Amoco Rykon Oil 32  
Chevron AW Hydraulic Oil MV  
Citgo A/W All Temp Hyd Oil 5W-20  
Conoco Super Hydraulic 5W-20  
Conoco Super Hydraulic 522M  
Exxon Unis N32  
Mobil DTE 13  
Pennzoil AWX Multi-Vis Hyd Oil  
Shell Tellus Oil T 32  
Sun Hydraulic Oil 2105  
Union Unocal Unax AW-WR  
Amoco Rykon Oil MV

All of the above fluids are interchangeable within the 32/46 multi-viscosity group.

Use of the 32/46 multi-viscosity type fluids in the higher temperature environment may produce lower efficiency in some of the hydraulic components as compared to the ISO 46 straight-viscosity type fluids.

### ISO 46 Straight-Viscosity Fluid

When using the straight-viscosity ISO 46 fluid in a lower temperature environment, conditions of increased engine laboring, harder starting or inconsistent control valve spool operation may occur until the fluid has warmed.

The ISO 46 straight-viscosity type fluids will maintain a slightly higher viscosity at higher temperatures than the 32/46 multi-viscosity fluids. These fluids are recommended for operating temperature environment consistently above 70°F (21°C).

### ISO 46 Straight-Viscosity Anti-wear Hydraulic Oils

Texaco Rando HD 46  
Amoco Rykon Oil 46  
Chevron AW Hydraulic Oil 46  
Citgo AW Hydraulic Oil 46  
Conoco Super Hydraulic Oil 46  
Exxon Nuto H46  
Mobil DTC 25  
Pennzoil AW Hydraulic Oil 46  
Shell Tellus 46  
Union Unocal Unaw AWI 46

All of the above fluids are interchangeable within the ISO 46 straight-viscosity group.

When changing from one type of hydraulic fluid to the other, care must be taken to drain all of the old fluid from the system. Some brands of the 32/46 multi-viscosity type are not fully compatible with some brands of the ISO 46 straight-viscosity type. When using Texaco products, the two types are compatible.

The 32/46 Multi-Viscosity fluids listed are premium hydraulic oils and will allow for oil change intervals of 200 hours (or yearly), with normal operation, within the temperature guidelines stated. The ISO 46 straight-viscosity fluids require a 150–200 hour oil change interval for severe duty and/or extremely high operating temperature conditions, longer intervals for normal operation.

## HYDRAULIC OIL FILTER

Remove hydraulic filter to drain hydraulic oil.

When replacing the hydraulic oil filter (PN 522972), apply a light film of clean oil to the rubber seal. Screw filter on until the seal contacts the oil filter base, then tighten 1/2 turn more.

**DO NOT** use wrench when replacing the filter, use hand pressure **ONLY**.

## ACCESSORY TURF PROTECTION SYSTEM (ELECTRONIC LEAK DETECTOR)

If the Turf Protection System (TPS) has been installed, it will need to be recalibrated if the oil level has been changed (refer to the TPS instructions that came with the accessory).

### NOTICE

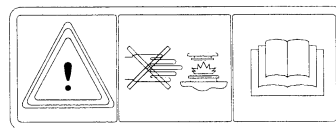
- You will need to re-calibrate the Turf Protection System **before each days use**, for the **first five days of operation after installation or oil change**.
- To avoid damage to the hydraulic system, repair any leaks and refill the system immediately.
- **DO NOT** substitute any other type of fluid except for those listed on Page 16, in the Hydraulic Oil Section of this manual.
- **DO NOT** over fill the hydraulic system.
- Clean debris from the hydraulic oil cooler fins daily to prevent overheating.

## ENGINE COOLING SYSTEM (DIESEL ONLY)

### IMPORTANT!

REFER TO THE ENGINE OPERATOR'S MANUAL FOR ADDITIONAL COOLING SYSTEM MAINTENANCE.

## DRAINING COOLANT SYSTEM



### WARNING

- To prevent burns or scalding, be sure cooling system has had time to cool before attempting to remove radiator cap.

If coolant requires draining, remove radiator cap, open the drain cock located on the cylinder block directly below the fuel injection pump). Close drain cock before filling.

## FILLING COOLANT SYSTEM

### NOTICE

- Failure to follow the recommended procedure for filling the cooling system will cause engine overheating and possible engine failure.
- **ALWAYS** check coolant level in the radiator. The correct level of coolant in the reservoir tank does **NOT** assure the radiator is full.
- A 50/50 mixture of water and ethylene glyco (antifreeze) must be mixed in a separate container before adding. **NEVER** add straight antifreeze to the radiator. The mixture must **NEVER** be more than 50% antifreeze. Refer to engine operator's manual.

Add coolant to the radiator until it is up to the bottom of the filler port. **DO NOT** install cap.

If the block has been drained, start and run the engine until the coolant level in the radiator drops. Stop engine. Add coolant to the bottom of the filler port again. Install radiator pressure cap. Add coolant to the proper line on the over flow tank.

## CLEANING RADIATOR

Check radiator for dirt accumulation.

Clean with compressed air. **DO NOT** use water under pressure unless all water is blown from the radiator after cleaning. Water will collect dirt and clog radiator fins.

### NOTICE

- Use care when cleaning radiator with compressed air or water under pressure. Damage may occur to cooling fins.

## AIR CLEANER

**Gasoline Engines:** refer to the engine operator's manual for air cleaner service and replacement.

**Diesel Engines:** use a large capacity dry type air cleaner with a replaceable paper element (PN 840352).

### NOTICE

- **DO NOT** use bent or dented air cleaner housing
- **DO NOT** use bent or dented air cleaner elements

### IMPORTANT!

WE RECOMMEND THAT THE FILTER ELEMENT BE REPLACED BEFORE ENGINE PERFORMANCE IS AFFECTED. THIS MAY OCCUR AT 250 HOURS OF SERVICE UNDER VERY DUSTY CONDITIONS OR AT 500 HOURS UNDER NORMAL OPERATING CONDITIONS.

WE DO NOT RECOMMEND CLEANING THE FILTER ELEMENT BECAUSE OF THE POSSIBILITY OF DAMAGING IT.

### CHECKING THE ELEMENT

To check for damage, pin holes, etc. shine a light source into the end of the element. If light **CANNOT** be seen through the paper, a new element should be installed. Likewise, if pinholes of bright light appear in the paper, the element should be replaced.

### INSTALLING ELEMENT (DIESEL ONLY)

1. Clean the dust from inside the filter housing with a damp cloth. Make sure that dust does not enter the engine air intake.
2. Check the soft gasket material at both ends of the element to be sure it is not damaged.
3. Insert the open end of the element into the housing and press it onto the air intake pipe at the back of the housing. Make sure the filter element fits over the pipe snugly and is pushed all the way on to prevent any dust from getting past the filter.
4. Install the air cleaner cover over the element with the dust collector pointing **DOWN** (dust collector empties automatically when properly installed). Secure the cover with the two wire bails (See Fig. 34).

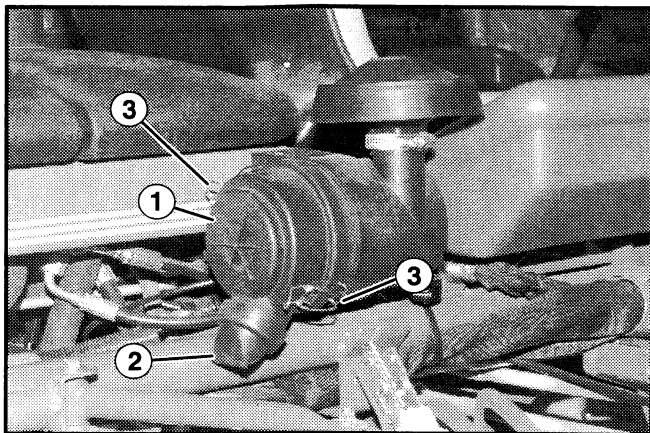


Figure 34

1. Cover
2. Dust Collector
3. Wire Bails

## FUSES

The fuse block is located inside of the control panel.

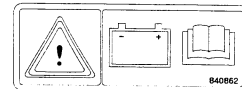
### Fuses on gas units:

1. Safety switches - 20 amp
2. Seat switch circuit - 20 amp
3. Buzzer for Turf Protection System option - 20 amp
4. Headlight - 20 amp

### Fuses on diesel units:

1. Engine fuel shut off circuit - 30 amp
2. Safety switches - 20 amp
3. Seat switch circuit - 20 amp
4. Headlight and Buzzer for Turf Protection - 20 amp

## BATTERY



The factory installed battery is "Low Maintenance." Add liquid only as required.



### WARNING

- **UNTRAINED/UNAUTHORIZED** persons should **NEVER** attempt to service or recharge the battery in this unit.



### WARNING

- **Battery electrolyte is an acidic solution and should be handled with care. If electrolyte is splashed on any part of the body, immediately flush the exposed area with liberal amounts of water and obtain medical aid immediately.**

### NOTICE

- Keep top of battery clean and free of corrosion by washing with a solution of baking soda and water OR ammonia and water. Rinse with clean water. Batteries with heavy corrosion should be removed and cleaned with solution.
- Battery cables should be disconnected before using a "Fast Charger."

## JUMP STARTING



### WARNING

- **DO NOT** allow flames or sparks near a battery when connecting for jump starting or charging.
- **Hydrogen gas is produced during the charging process and can be explosive. Provide adequate ventilation to prevent possible explosion.**

Both booster battery and discharged battery should be treated carefully when using jumper cables.

Follow these steps **exactly**, take care not to cause sparks.

1. Set the parking brake and turn off any electrical loads.

2. Attach one end of one jumper cable to the positive terminal of the booster battery and the other end to the positive terminal of the discharged battery. **DO NOT permit units to touch each other.**
3. Attach one end of remaining cable to the negative terminal of the booster battery and the other end to a good ground on the unit or engine, **away from the discharged battery. DO NOT lean over the battery when making this connection.**

Reverse this sequence **exactly** when removing the jumper cables.

#### NOTICE

- Booster batteries used for starting must be connected with proper polarity.

### TIRE PRESSURE



#### CAUTION

- Caution must be used when inflating a low tire to recommended pressure. Check pressure with a low pressure tire gauge before connecting an air hose to a partly inflated tire.



#### CAUTION

- Due to the low air volume requirements of a small tire, over inflation may be reached in a matter of a few seconds, which could cause the tire to explode.

#### COLD INFLATION PRESSURE

All Tires ..... 9 PSI (60.3 kPa)

#### NOTICE

- Improper inflation will reduce tire life considerably

### REMOVAL AND INSTALLATION OF THE REAR FORK AND TIRE

1. Raise the rear of the unit high enough to remove the tire and hub assembly.



#### WARNING

- Use jackstands to provide adequate support. **DO NOT** rely on hydraulic or mechanical jacks.
2. Remove and retain the axle retaining nuts securing the tire and hub assembly and remove from the fork.
  3. Remove and retain wheel mounting nuts securing tire to hub and then remove the hub from the tire.
  4. Remove and retain the cotter pin and nut securing the steering cylinder.
  5. Remove and retain the upper and lower nuts securing the rear fork. Remove the rear fork.

6. Using previously retained hardware, install and secure the rear fork assembly by tightening the lower nut until washer will not turn by hand, then back off nut until washer will turn freely. Prevent lower nut from turning, then install and tighten upper jam nut to 50 ft.lbs. (68 N•m).
7. Using previously retained hardware, install and secure the steering cylinder.
8. Using previously retained hardware, install and secure tire to hub assembly. Tighten wheel mounting nuts to approximately 70–100 ft.lbs. (95–140 N•m).
9. Using previously retained hardware, install and secure tire and hub assembly to the rear fork.

### CUTTING HEAD MAINTENANCE

#### CLEANING

The cutting heads should be washed after each days use and dried as well as possible to prevent rust.

All cutting surfaces (reel and bedknife) should be given a light coating of oil or other anti-rust compound.

#### LUBRICATION

The lubrication fittings at each end of both the front and rear rollers, as well as the reel bearings at each end should be lubricated periodically (approximately once each week). Use only enough lubricant to keep the bearings from drying out. Too much lubricant may drop from mower onto turf, causing damage to the grass.

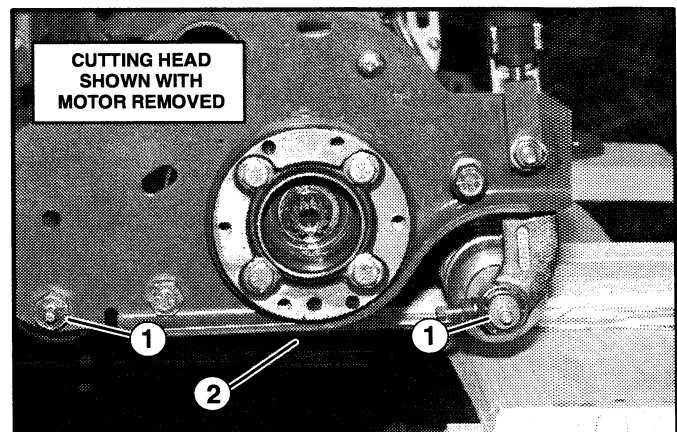


Figure 35

1. Rollers (fittings at both ends)
2. Reel Bearings (located on bottom of bearing housing both ends)

### BACKLAPPING

Backlapping on a regular basis will help keep the cutting edges sharp and extend the life of the reel.

Backlapping may be performed on one cutting head only, two heads, or all three heads simultaneously. If **backlapping one or two cutting heads is desired, back off slightly on the bedknife-to-reel clearance on the head(s) not requiring backlapping.** This will eliminate contact between bedknife and reel, avoiding the possibility of damaging the reel or bedknife during the backlap process. **Always make bedknife adjustments with the Engine Off.**

### NOTICE

- Make sure the bedknife adjustment is correct before backlapping. Refer to Bedknife Adjustment (Page 7).



### WARNING

- **ALWAYS** open the restriction valve before setting the reel control lever to **BACKLAP** position. **DO NOT** set the reel control lever to the **BACKLAP** position before opening the needle valve in the bypass circuit. This will cause the reels to start turning **IMMEDIATELY** at full speed.
  - Keep hands, feet and clothing away from all three reels whenever the reel control lever is placed in the backlap position. When backlap restriction valve is *closed or being closed*, all three reels will rotate in the backlap direction.
1. Open the restriction valve on the reel valve by turning the knob counterclockwise as far as it will go (See Fig. 36).

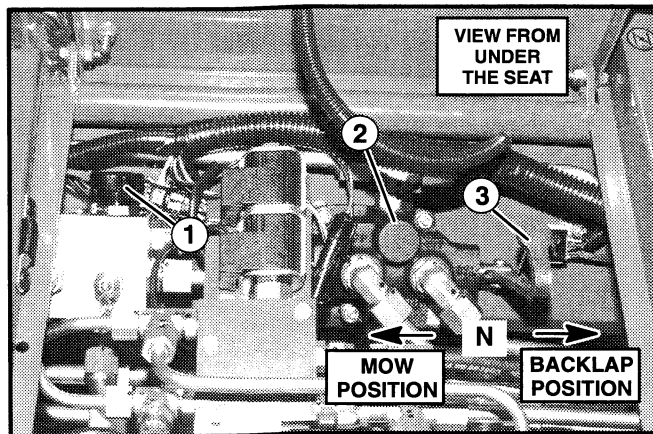


Figure 36

1. Restriction Valve Knob
2. Backlap Valve
3. Reel Control Lever

2. Set the reel control lever to the right for the backlap position (See Fig. 36).
3. Start the engine and set the throttle to low idle. Switch the reel enable switch to the on position. Lower heads by moving the mow/lift pedal to the "mow" position.
4. Slowly turn the restriction valve knob clockwise until the desired reel rotation speed is attained. It should be slow enough so that the reel will not throw off the backlapping compound as it spins.
5. Apply an even coat of backlapping compound to the entire length of each blade of the reel. Use a brush with a long enough handle to keep you away from the rotating blades. For best results, use a handle length which will permit application of compound while standing in front of the unit.
6. Once all the blades on the reel are uniformly sharp, shut off the engine and switch the reel enable switch

to the off position. Set the reel valve control to the mow position and close the restriction valve (all the way clockwise).

### NOTICE

- To ensure proper reel rotation, make sure the restriction valve is completely closed.
7. Wash all of the backlapping compound from all of the heads. Once they are thoroughly cleaned and dry, apply a light film of oil to the cutting edges to help prevent rust.
  8. After backlapping, the bedknife adjustment should be made again.

## STORAGE



### WARNING

- To prevent possible explosion or ignition of vaporized fuel, **DO NOT** store equipment with fuel in tank or carburetor in enclosure with open flame. (Example: Furnace or water heater pilot light).

### DAILY STORAGE

After each days use:

1. Clean and inspect the cutting heads.
2. Check engine oil and hydraulic oil levels. Fill to proper level as required.
3. Check for loose or missing hardware. Tighten or replace as required.

### EXTENDED STORAGE

Before storing the unit for an extended period of time (30 days or more):

1. While engine is warm, drain the crankcase oil and remove oil filter, install new oil filter and fill crankcase with the proper weight of oil corresponding to the season when the equipment will next be used. Start the engine and run for a few minutes to allow the fresh oil to distribute throughout the engine.
2. Drain all fuel from fuel tank and lines.

#### Gasoline engines only:

3. Start the engine and run it until all of the fuel in the carburetor is consumed.
4. Remove the spark plugs and put a few drops of engine oil into each cylinder. Use the starter to turn the engine a few revolutions to distribute the oil inside the cylinder. Reinstall the spark plugs.

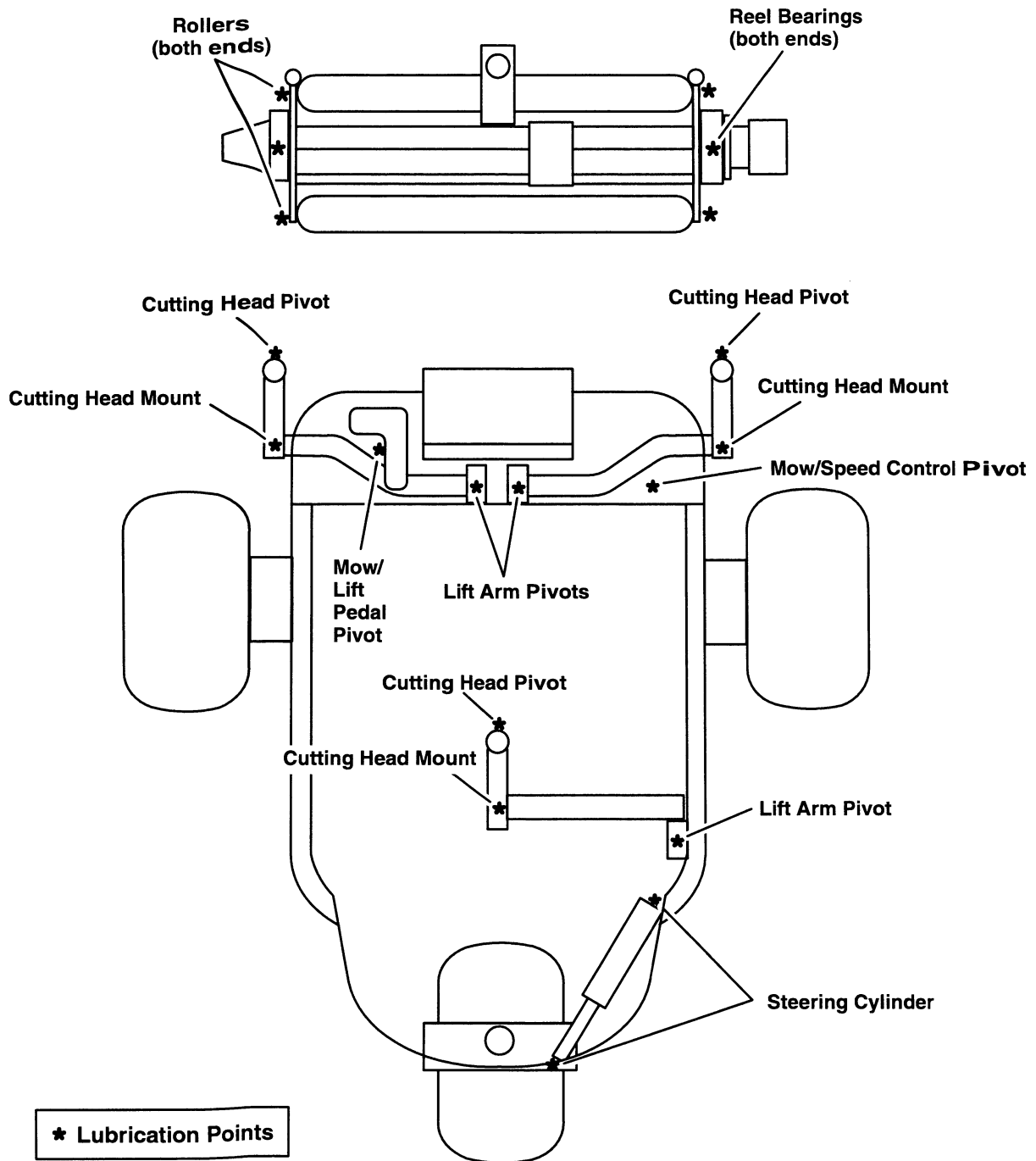
To put the unit back into operation after an extended period of storage:

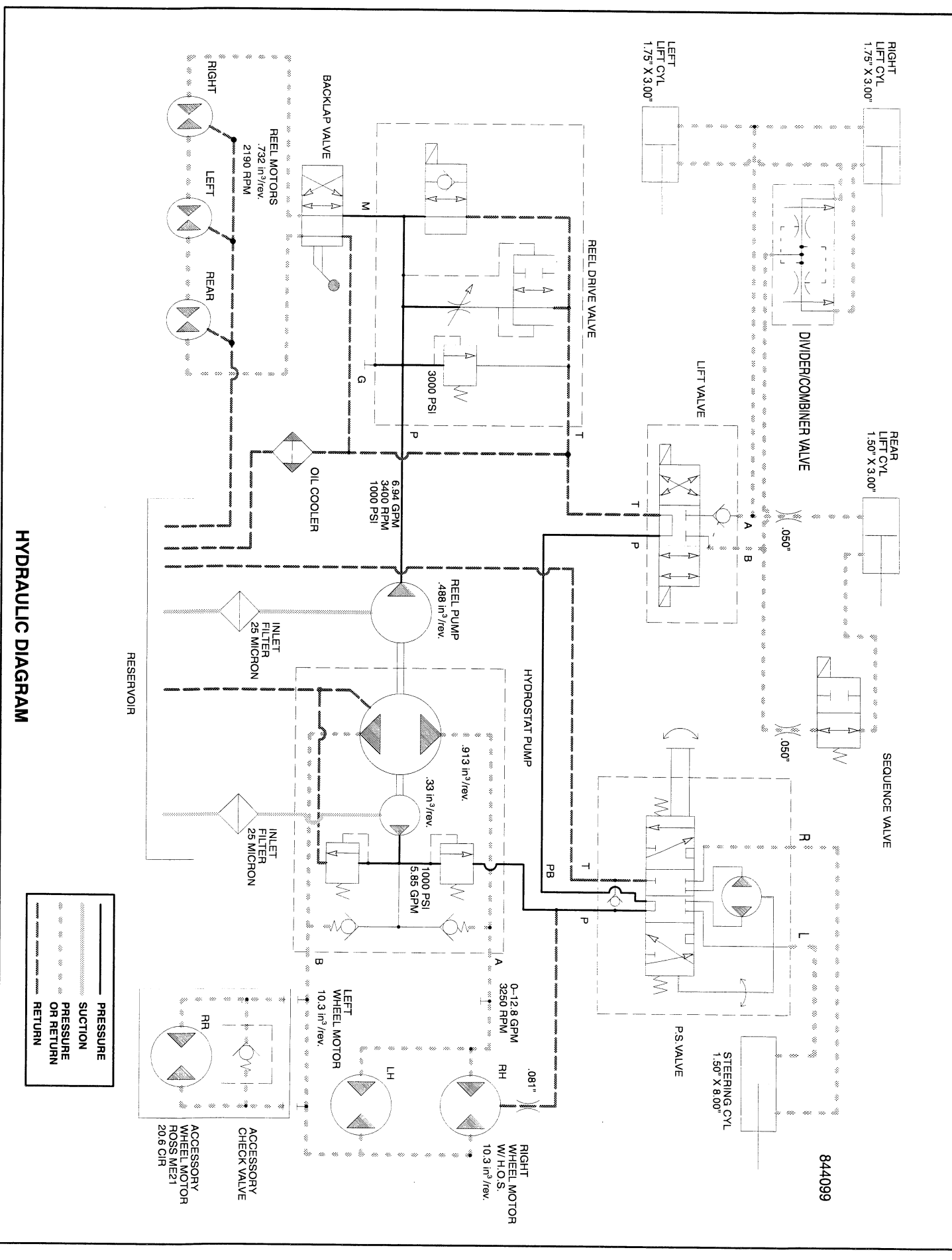
1. Check crankcase oil and hydraulic oil levels.
2. Check coolant level in radiator (diesel).
3. Fill fuel tank. (diesel—bleed the fuel system, see Bleeding The Fuel System, Page 12).
4. Start the engine and check all connections for fuel leaks.

## LUBE CHART

### NOTICE

Lubricate sparingly with a lithium based lubricant. Excess lubrication may drop from unit and cause turf damage.





## TROUBLESHOOTING

### Nothing happens when key is turned (engine won't crank):

- Direction/Speed pedal not in neutral ..... Pedal should return to neutral automatically, if not, **check** the neutral centering mechanism and micro switches **located** below the hydrostat pump
- Mow or Lift pedal engaged ..... return the mow/lift pedal to the rear **"raise"** position
- Reel Drive Enable Switch in UP position ..... Move switch **to** "OFF"

**If the cutting heads are down, the mow raise pedal MUST be in the raised position and the reel enable switch MUST be in the off position before the unit can be started**

- Blown fuse ..... **replace** fuse

### Lack of power or speed:

- Hydrostat pump bypass valve not completely closed ..... turn knob counterclockwise to **close** valve

### Engine overheating:

- Air intake screen blocked or clogged with debris ..... **clean** air intake **screen**
- Oil level too low or too high ..... **check and correct** oil level
- Radiator plugged with debris ..... **Clean** radiator
- Coolant level too low ..... **check and correct** coolant level

### Hydraulic system overheating:

- Air intake screen blocked or clogged with debris ..... **clean** cooling air intake **screen**
- Low oil level ..... **check and correct** oil level
- Wrong or dirty oil ..... **drain** the system and refill it with fresh oil of the proper type and **replace** filters

### Hydraulic system foaming:

- Low oil level ..... **check and correct** oil level
- Wrong or dirty oil ..... **drain** the system and refill it with fresh oil of the proper type and **replace** filters
- Air leaking into the system ..... **Check** suction line fittings and/or charge **pump** seal

### Reels won't turn:

- Reel enable switch in the off position ..... **Switch** the reel enable **switch** on
- Bedknife too tight against reel ..... **adjust** bedknife
- Restriction valve knob open ..... **turn** restriction valve knob clockwise **until** closed
- Low hydraulic oil level ..... **check and correct** oil level

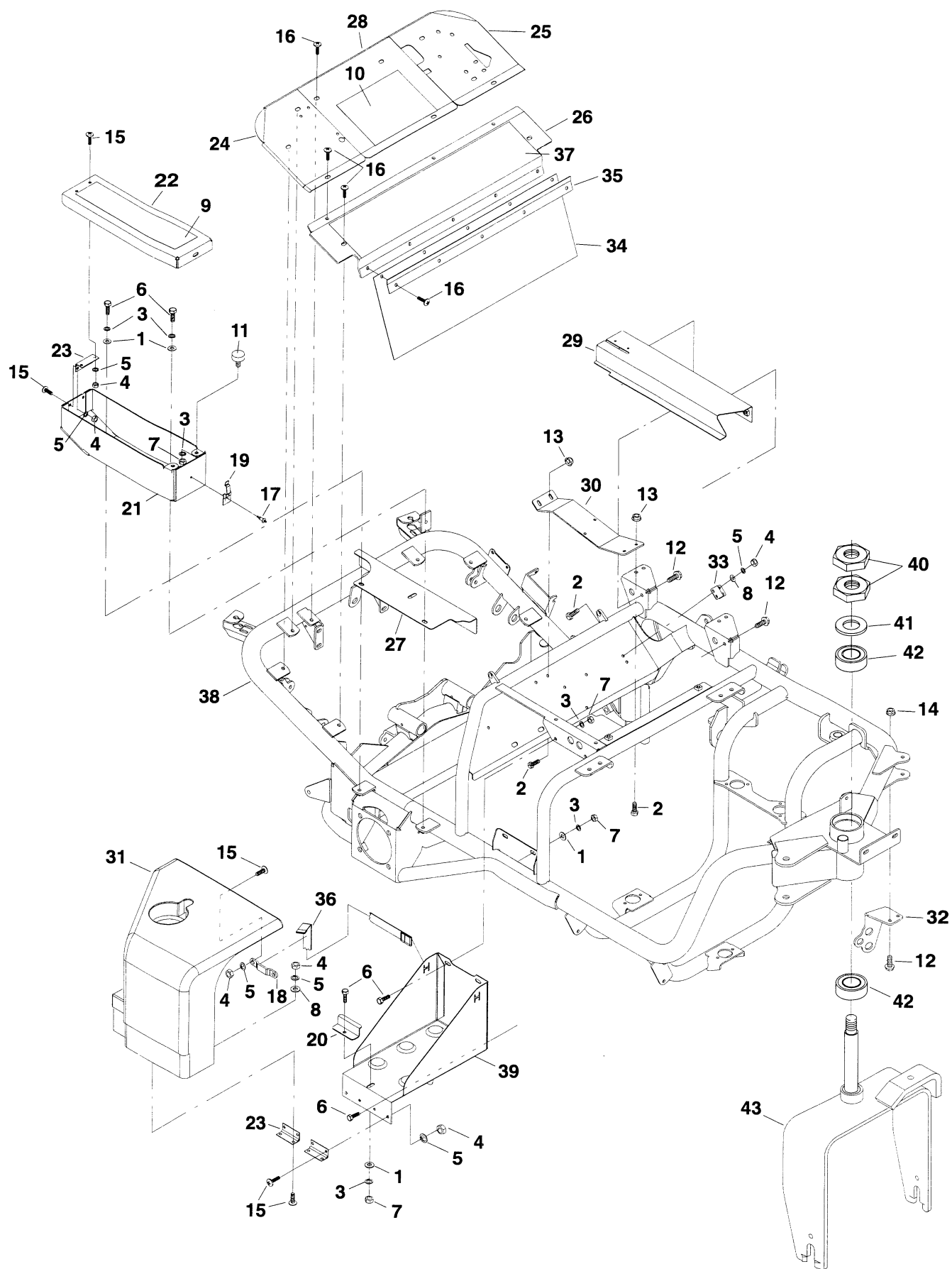
### Poor cut quality:

- Dull cutting edges ..... **perform** backlapping **operation**
- Bedknife out of adjustment ..... **adjust** bedknife
- Reels turning too slow ..... **make** sure the restriction valve knob on the reel **valve** is **tightly** closed and the bedknife is not too tight **against** the reel
- Ground speed too fast ..... **adjust** the stop screw on the mow/speed control **linkage** to reduce mowing speed **NOTICE, do not** reduce engine speed. Always operate the unit with engine at full throttle. Reducing engine speed will affect hydraulic pressure and cutting quality.

### Squealing noise from reel:

- Bedknife out of adjustment ..... **adjust** bedknife
- Running cutting heads dry ..... **run** heads in grass to keep cutting edges **lubricated**

## 1.1 CHASSIS AND COVERS

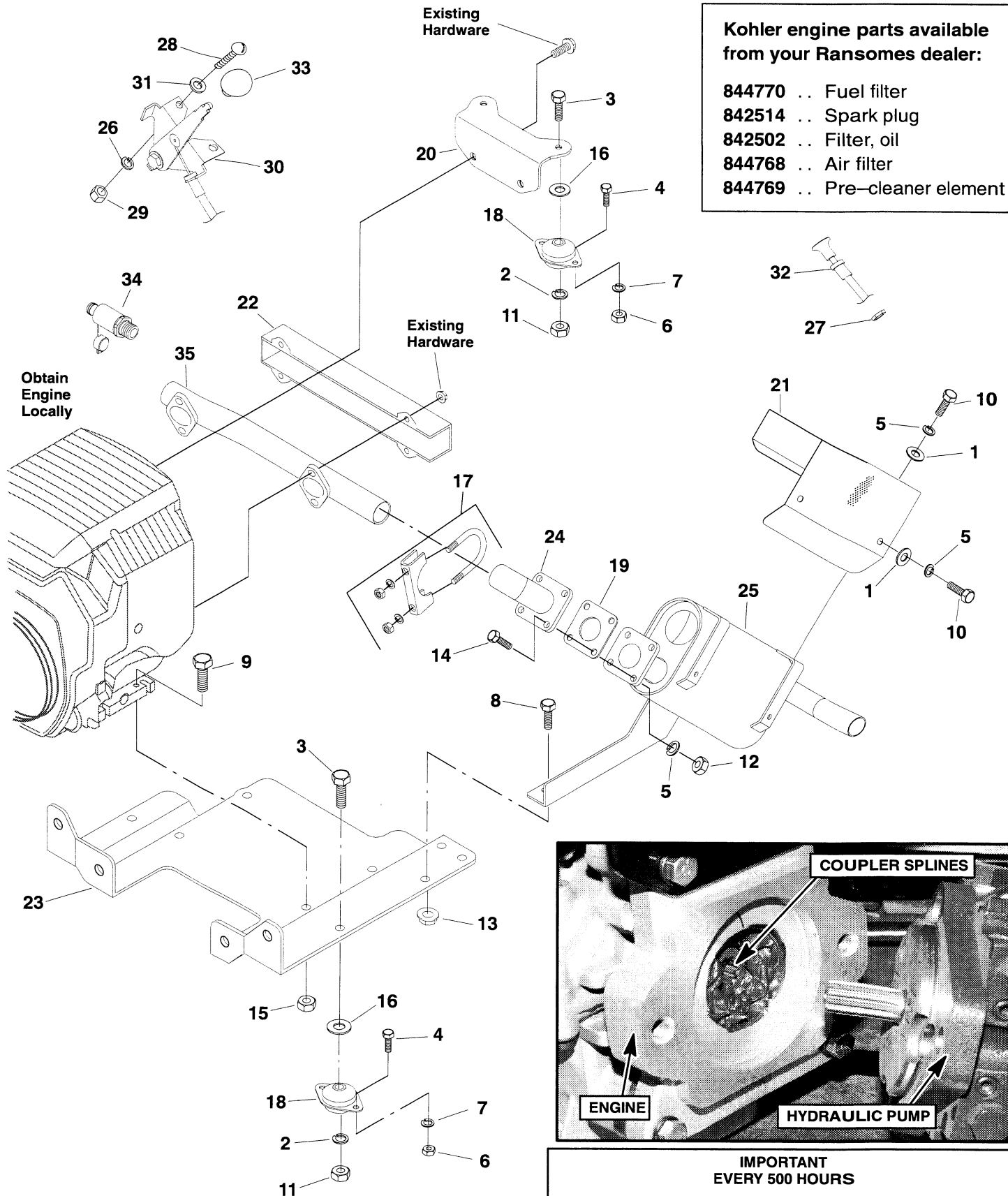


# CHASSIS AND COVERS 1.1

| Ref. No. | Part No. | Description                                   | No. Req'd | Notes           |
|----------|----------|-----------------------------------------------|-----------|-----------------|
| 1        | 103867   | Washer, 5/16" .....                           | 5         | Not Illustrated |
| 2        | 300646   | Screw, 1/4-20 x 3/4" .....                    | 6         |                 |
| 3        | 306325   | Lockwasher, 5/16" .....                       | 9         |                 |
| 4        | 306375   | Nut, 1/4-20 .....                             | 16        |                 |
| 5        | 306396   | Lockwasher, 1/4" .....                        | 16        |                 |
| 6        | 306416   | Screw, 5/16-18 x 1" .....                     | 7         |                 |
| 7        | 306932   | Nut, 5/16-18 .....                            | 7         |                 |
| 8        | 308090   | Washer, 1/4" .....                            | 6         |                 |
| 9        | 523169   | Tread, pedal, 13 1/2" x 3" (343 x 76mm) ..... | 1         |                 |
| 10       | 523171   | Tread, pedal, 13 1/2" x 3" (343 x 76mm) ..... | 1         |                 |
| 11       | 523224   | Bumper, rubber .....                          | 2         |                 |
| 12       | 548604   | Screw, 5/16-18 x 3/4" .....                   | 4         |                 |
| 13       | 548910   | Nut, 1/4-20 flange .....                      | 4         |                 |
| 14       | 548911   | Nut, 5/16-18 flange .....                     | 2         |                 |
| 15       | 800019   | Screw, P.T.H., 1/4-20 x 1/2" .....            | 14        |                 |
| 16       | 800177   | Screw, P.T.H., 5/16-18 x 3/4" .....           | 16        |                 |
| 17       | 800475   | Rivet, pop, 13/64" x 3/8" .....               | 1         |                 |
| 18       | 825824   | Retainer .....                                | 1         |                 |
| 19       | 835039   | Fastener, snap .....                          | 1         |                 |
| 20       | 839391   | Clamp, battery .....                          | 1         |                 |
| 21       | 840170   | Box, tool/step .....                          | 1         |                 |
| 22       | 840171   | Cover, box .....                              | 1         |                 |
| 23       | 840172   | Hinge, box .....                              | 3         |                 |
| 24       | 842879   | Panel, floor, LEFT .....                      | 1         |                 |
| 25       | 842880   | Panel, floor, RIGHT .....                     | 1         |                 |
| 26       | 842881   | Panel, foot, CENTER .....                     | 1         |                 |
| 27       | 842882   | Panel, line cover .....                       | 1         |                 |
| 28       | 842928   | Panel, floor, CENTER .....                    | 1         |                 |
| 29       | 894662   | Panel, control .....                          | 1         |                 |
|          | 840748   | •Decal, warning, guards .....                 | 1         |                 |
| 30       | 843196   | Bracket, lift valve .....                     | 1         |                 |
| 31       | 843402   | Cover, battery .....                          | 1         |                 |
| 32       | 843404   | Bracket, fitting mount .....                  | 1         |                 |
| 33       | 843412   | Bracket, Switch mounting .....                | 1         |                 |
| 34       | 843886   | Cover .....                                   | 1         |                 |
| 35       | 843887   | Strap, cover .....                            | 1         |                 |
| 36       | 843887   | Strap, .....                                  | 1         |                 |
| 37       | 844076   | Tread, pedal, 13 1/2" x 3" (343 x 76mm) ..... | 1         |                 |
| 38       | 893791   | Frame, main .....                             | 1         |                 |
| 39       | 894237   | Tray, battery .....                           | 1         |                 |
| 40       | 310854   | Nut, jam, 1-14 .....                          | 2         |                 |
| 41       | 518170   | Washer, 1" i.d. x 2" o.d. ....                | 1         |                 |
| 42       | 837429   | Bearing, Ball .....                           | 2         |                 |
| 43       | 892913   | Fork .....                                    | 1         |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 2.1 POWER ASSEMBLY (GAS)



**Kohler engine parts available from your Ransomes dealer:**

- 844770 .. Fuel filter
- 842514 .. Spark plug
- 842502 .. Filter, oil
- 844768 .. Air filter
- 844769 .. Pre-cleaner element

**IMPORTANT  
EVERY 500 HOURS**

**DISASSEMBLE HYDRAULIC PUMP FROM ENGINE AND FILI  
COUPLER SPLINES WITH DOW Gm ASSEMBLY PASTE (Part No  
2700183). IT TAKES APPROXIMATELY 1/2 oz (SEE FIG. ABOVE)**

# POWER ASSEMBLY (GAS) 2.1

| Ref. No. | Part No. | Description                                    | No. Req'd | Notes                                               |
|----------|----------|------------------------------------------------|-----------|-----------------------------------------------------|
| 1        | 103867   | Washer, 5/16" .....                            | 4         | Not illustrated, it comes in a 2.8 oz. (80 g) tube. |
| 2        | 120177   | Lockwasher, 3/8" .....                         | 4         |                                                     |
| 3        | 131794   | Screw, 3/8-16 x 2" .....                       | 4         |                                                     |
| 4        | 300646   | Screw, 1/4-20 x 3/4" .....                     | 8         |                                                     |
| 5        | 306325   | Lockwasher, 5/16" .....                        | 8         |                                                     |
| 6        | 306375   | Nut, 1/4-20 .....                              | 8         |                                                     |
| 7        | 306396   | Lockwasher, 1/4" .....                         | 8         |                                                     |
| 8        | 306416   | Screw, 5/16-18 x 1" .....                      | 2         |                                                     |
| 9        | 306501   | Screw, 5/16-18 x 1 1/2" .....                  | 4         |                                                     |
| 10       | 306555   | Screw, 5/16-18 x 5/8" .....                    | 4         |                                                     |
| 11       | 306562   | Nut, 3/8-16 .....                              | 4         |                                                     |
| 12       | 306932   | Nut, 5/16-18 .....                             | 4         |                                                     |
| 13       | 548911   | Nut, flangelock, 5/16-18 .....                 | 2         |                                                     |
| 14       | 306435   | Screw, 5/16-18 x 1 1/4" .....                  | 4         |                                                     |
| 15       | 800697   | Nut, crownlock, 5/16-18 .....                  | 4         |                                                     |
| 16       | 809168   | Washer, 3/8" .....                             | 4         |                                                     |
| 17       | 840196   | Clamp, tubing .....                            | 1         |                                                     |
| 18       | 826218   | Mount, motor .....                             | 4         |                                                     |
| 19       | 834606   | Gasket, exhaust .....                          | 1         |                                                     |
| 20       | 842544   | Bracket, engine rear .....                     | 1         |                                                     |
| 21       | 843822   | Guard, Muffler .....                           | 1         |                                                     |
| 22       | 844325   | Shield, exhaust .....                          | 1         |                                                     |
| 23       | 894221   | Plate, engine mount .....                      | 1         |                                                     |
| 24       | 894228   | Tube, header .....                             | 1         |                                                     |
| 25       | 894229   | Muffler .....                                  | 1         |                                                     |
| 26       | 120052   | Lockwasher, #10 .....                          | 2         |                                                     |
| 27       | 306319   | Nut, 3/8-16 .....                              | 1         |                                                     |
| 28       | 800296   | Screw, #10-24 x 3/4" .....                     | 2         |                                                     |
| 29       | 306531   | Nut, #10-24 .....                              | 2         |                                                     |
| 30       | 844067   | Cable, control (throttle), 50" (1.27M) .....   | 1         |                                                     |
| 31       | 800868   | Washer, polyethylene, 13/64" i.d. ....         | 2         |                                                     |
| 32       | 819538   | Cable, choke, 5' (152cm) .....                 | 1         |                                                     |
| 33       | 827821   | Knob, ball .....                               | 1         |                                                     |
| 34       | 844547   | Drain cock, oil .....                          | 1         |                                                     |
| 35       | 844548   | Manifold, exhaust .....                        | 1         |                                                     |
|          | 2700183  | Paste, assembly, Dow Corning Gn ..... As Req'd |           |                                                     |

## Replacement engine specification:

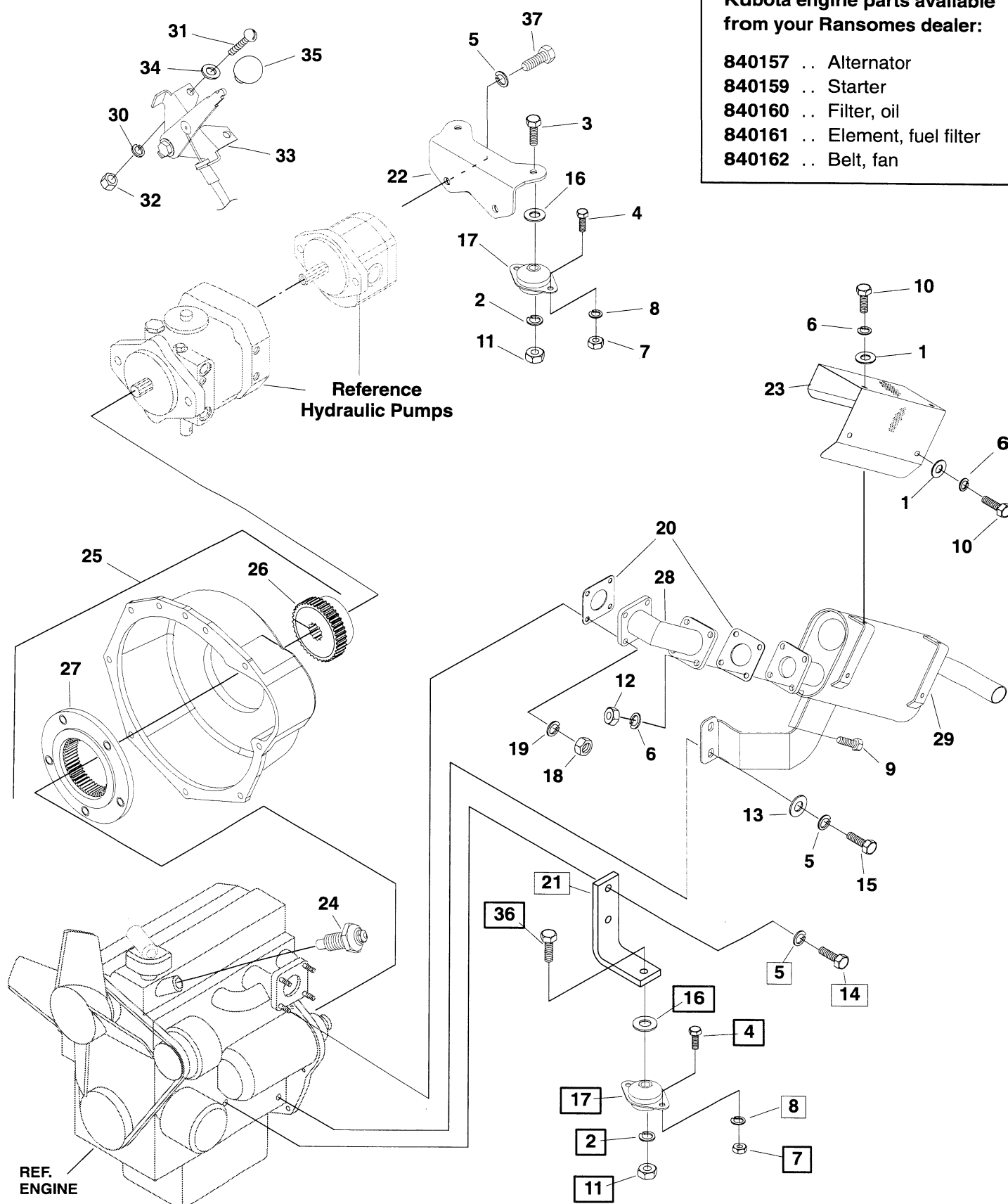
Kohler, 18hp, V-twin

Model TH18S, Spec. No. 54531

## 2.2 POWER ASSEMBLY (DIESEL)

Kubota engine parts available from your Ransomes dealer:

- 840157** .. Alternator
- 840159** .. Starter
- 840160** .. Filter, oil
- 840161** .. Element, fuel filter
- 840162** .. Belt, fan



## 2.2 POWER ASSEMBLY (DIESEL)

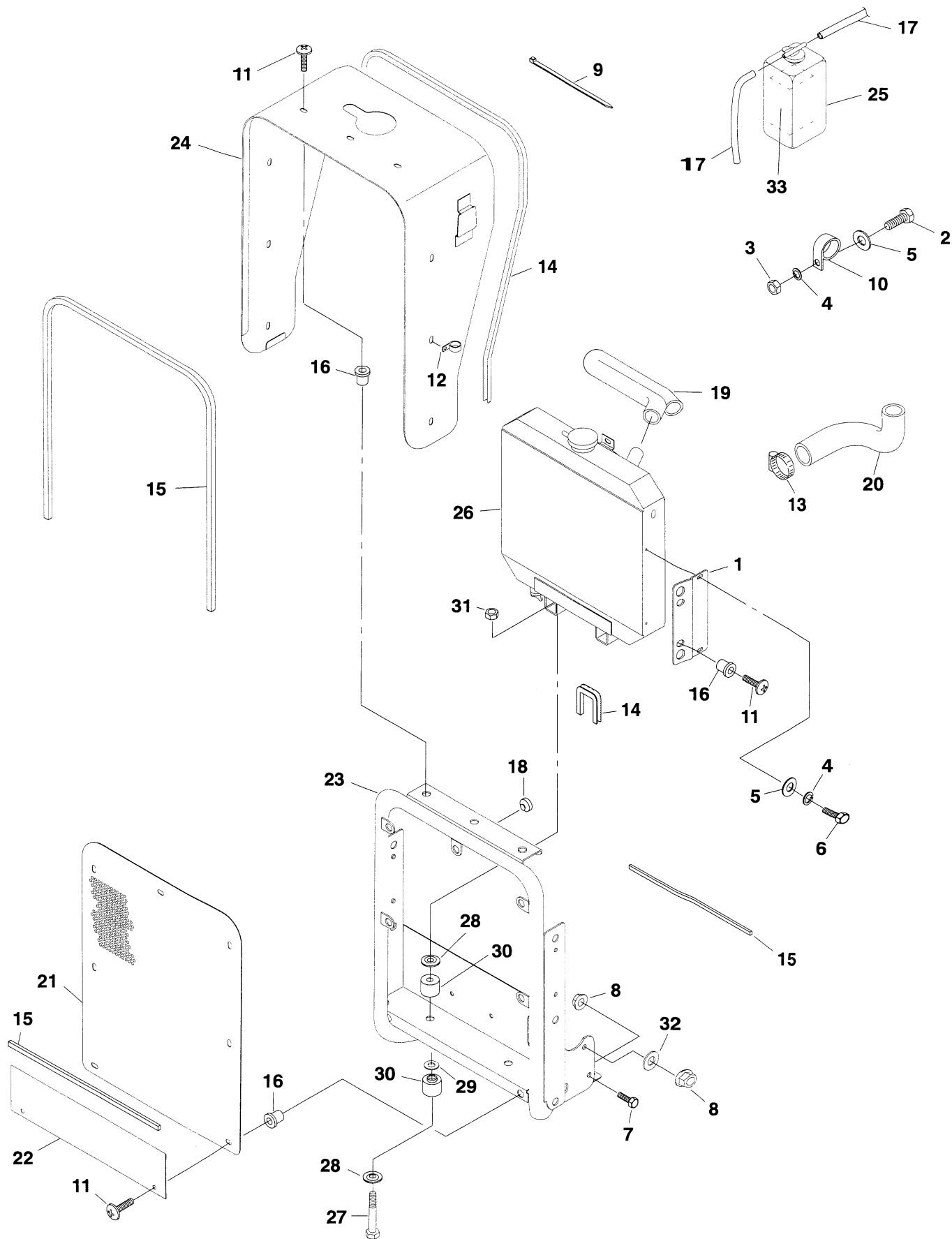
| Ref. No. | Part No. | Description                           | No. Req'd | Notes                  |
|----------|----------|---------------------------------------|-----------|------------------------|
| 1        | 103867   | Washer, 5/16 .....                    | 4         |                        |
| 2        | 120177   | Lockwasher, 3/8 .....                 | 4         |                        |
| 3        | 131794   | Screw, 3/8-16 x 2 .....               | 2         |                        |
| 4        | 300646   | Screw, 1/4-20 x 3/4 .....             | 8         |                        |
| 5        | 303269   | Lockwasher, 7/16" .....               | 8         |                        |
| 6        | 306325   | Lockwasher, 5/16 .....                | 8         |                        |
| 7        | 306375   | Nut, 1/4-20 .....                     | 8         |                        |
| 8        | 306396   | Lockwasher, 1/4 .....                 | 8         |                        |
| 9        | 306435   | Screw, 5/16-18 x 1 1/4 .....          | 4         |                        |
| 10       | 306555   | Screw, 5/16-18 x 5/8 .....            | 4         |                        |
| 11       | 306562   | Nut, 3/8-16 .....                     | 4         |                        |
| 12       | 306932   | Nut, 5/16-18 .....                    | 4         |                        |
| 13       | 450401   | Washer, M10 .....                     | 2         |                        |
| 14       | 800423   | Screw, M10-1.25 x 30mm .....          | 4         |                        |
| 15       | 800547   | Screw, M10-1.25 x 20mm .....          | 2         |                        |
| 16       | 809168   | Washer, 3/8 .....                     | 4         |                        |
| 17       | 826218   | Mount, motor .....                    | 4         |                        |
| 18       | 834277   | Nut .....                             | 4         |                        |
| 19       | 834288   | Washer, spring .....                  | 4         |                        |
| 20       | 834606   | Gasket, exhaust .....                 | 2         |                        |
| 21       | 842539   | Bracket, engine mount .....           | 2         |                        |
| 22       | 842540   | Bracket, engine rear .....            | 1         |                        |
| 23       | 843822   | Guard, Muffler .....                  | 1         |                        |
| 24       | 887735   | Sender, water temperature .....       | 1         |                        |
| 25       | 893943   | Housing, coupling and .....           | 1         |                        |
| 26       | 844496   | •Hub .....                            | 1         | Not offered seperately |
| 27       | 844497   | •Coupling .....                       | 1         | Not offered seperately |
| 28       | 894226   | Tube, header .....                    | 1         |                        |
| 29       | 894587   | Muffler .....                         | 1         |                        |
| 30       | 120052   | Lockwasher, #10 .....                 | 2         |                        |
| 31       | 800296   | Screw, #10-24 x 3/4 .....             | 2         |                        |
| 32       | 306531   | Nut, #10-24 .....                     | 2         |                        |
| 33       | 828049   | Cable, control (throttle) .....       | 1         |                        |
| 34       | 800868   | Washer, polyethylene, 13/64 i.d. .... | 2         |                        |
| 35       | 827821   | Knob, ball .....                      | 1         |                        |
| 36       | 306836   | Screw, 3/8-16 x 2 1/4 .....           | 2         |                        |
| 37       | 800547   | Screw, M10-1.5 x 20mm .....           | 2         |                        |

### Replacement engine specification:

Kubota diesel, 18hp, 3 cylinder, liquid cooled Model D722 B-1

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

### 3.1 RADIATOR (DIESEL)

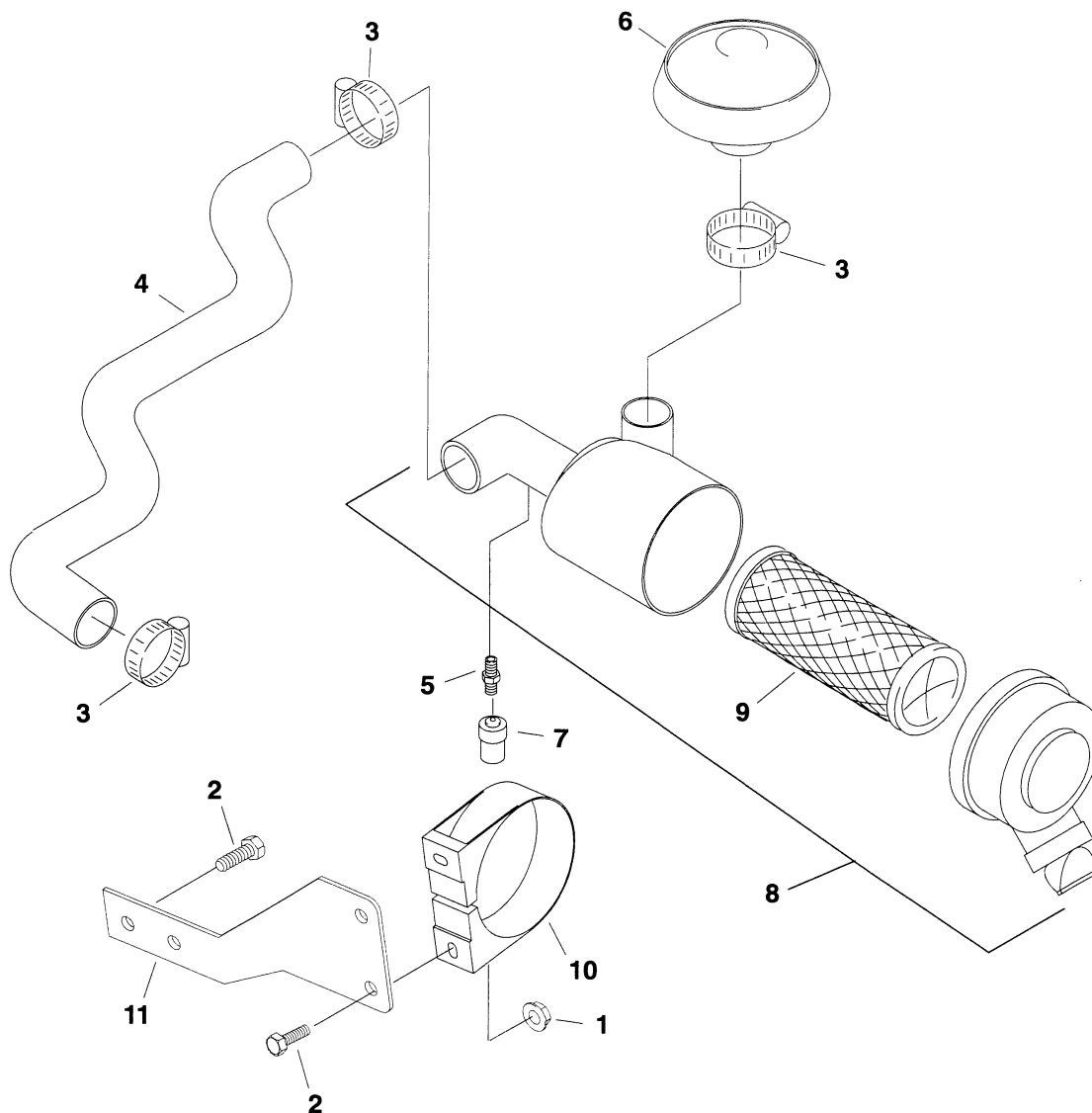


# RADIATOR (DIESEL) 3.1

| Ref. No. | Part No.     | Description                         | No. Req'd | Notes                         |
|----------|--------------|-------------------------------------|-----------|-------------------------------|
| 1        | 841160       | Bracket, radiator .....             | 2         |                               |
| 2        | 300646       | Screw, 1/4-20 x 3/4" .....          | 1         |                               |
| 3        | 306375       | Nut, 1/4-20 .....                   | 1         |                               |
| 4        | 306396       | Lockwasher, 1/4" .....              | 5         |                               |
| 5        | 308090       | Washer, 1/4" .....                  | 5         |                               |
| 6        | 828162       | Screw, M6-1.0 x 16 mm .....         | 4         |                               |
| 7        | 306834       | Screw, 3/8-16 x 3/4" .....          | 2         |                               |
| 8        | 800698       | Nut, crownlock flange, 3/8-16 ..... | 4         |                               |
| 9        | 320107       | Tie, cable, 7 1/2" (191 mm) .....   | 3         |                               |
| 10       | 523213       | Clip .....                          | 1         |                               |
| 11       | 800177       | Screw, 5/16-18 x 3/4", P.T.H. ....  | 16        |                               |
| 12       | 815058       | Clamp .....                         | 1         |                               |
| 13       | 820889       | Clamp, tubing .....                 | 4         |                               |
| 14       | 821893       | Trim, push-on, 12' (3.6M) .....     | As Req'd  |                               |
| 15       | 830355       | Weatherseal, 35' (10.6M) .....      | As Req'd  |                               |
| 16       | 831846       | Nut, isolation .....                | 16        |                               |
| 17       | 835805       | Hose, overflow 4' (1.2M) .....      | As Req'd  |                               |
| 18       | 810149       | Bumper, rubber .....                | 1         |                               |
| 19       | 839952       | Hose, radiator, top .....           | 1         |                               |
| 20       | 839953       | Hose, radiator, bottom .....        | 1         |                               |
| 21       | 839973       | Panel, screen .....                 | 1         |                               |
| 22       | 840062       | Panel, radiator .....               | 1         |                               |
| 23       | 894077       | Frame, radiator .....               | 1         |                               |
| 24       | 892634       | Cover, radiator .....               | 1         |                               |
|          | 832130       | •Decal, WARNING .....               | 1         | Not Illustrated               |
|          | 833610       | •Decal, NOTICE .....                | 1         | Not Illustrated               |
| 25       | 15531-72-403 | Bottle, overflow .....              | 1         | These are Kubota Part Numbers |
| 26       | 16676-72-061 | Radiator .....                      | 1         | Obtain from Kubota Dealer     |
| 27       | 800566       | Screw, M10-1.25 x 60 mm .....       | 2         |                               |
| 28       | 810758       | Retainer .....                      | 4         |                               |
| 29       | 548165       | Washer, 5/8" .....                  | 2         |                               |
| 30       | 810157       | Bushing, rubber .....               | 4         |                               |
| 31       | 800571       | Nut, M10-1.25 .....                 | 2         |                               |
| 32       | 306981       | Washer, 3/8" .....                  | 2         |                               |
| 33       | 523930       | Foam .....                          | 1         |                               |

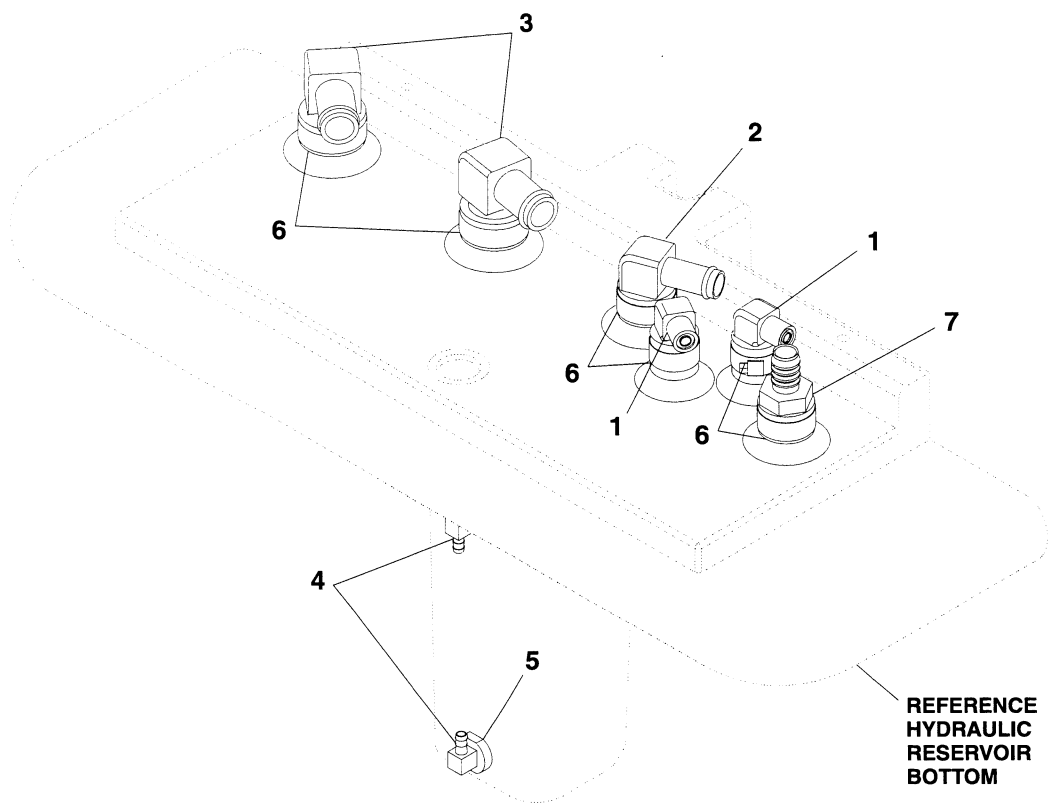
• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 4.1 AIR CLEANER (DIESEL)



| Ref. No. | Part No. | Description                         | No. Req'd | Notes |
|----------|----------|-------------------------------------|-----------|-------|
| 1        | 800697   | Nut, flange crownlock 5/16-18 ..... | 2         |       |
| 2        | 306416   | Screw, 5/16-18 x 1" .....           | 4         |       |
| 3        | 825358   | Clamp, hose, worm drive .....       | 3         |       |
| 4        | 844045   | Hose, air intake .....              | 1         |       |
| 5        | 840346   | Adaptor, gauge .....                | 1         |       |
| 6        | 840347   | Hood, inlet .....                   | 1         |       |
| 7        | 888036   | Gauge, restriction .....            | 1         |       |
| 8        | 893182   | Filter, air, complete .....         | 1         |       |
| 9        | 840352   | •Element, air filter .....          | 1         |       |
| 10       | 842915   | Bracket, filter .....               | 1         |       |
| 11       | 844044   | Bracket, air filter .....           | 1         |       |

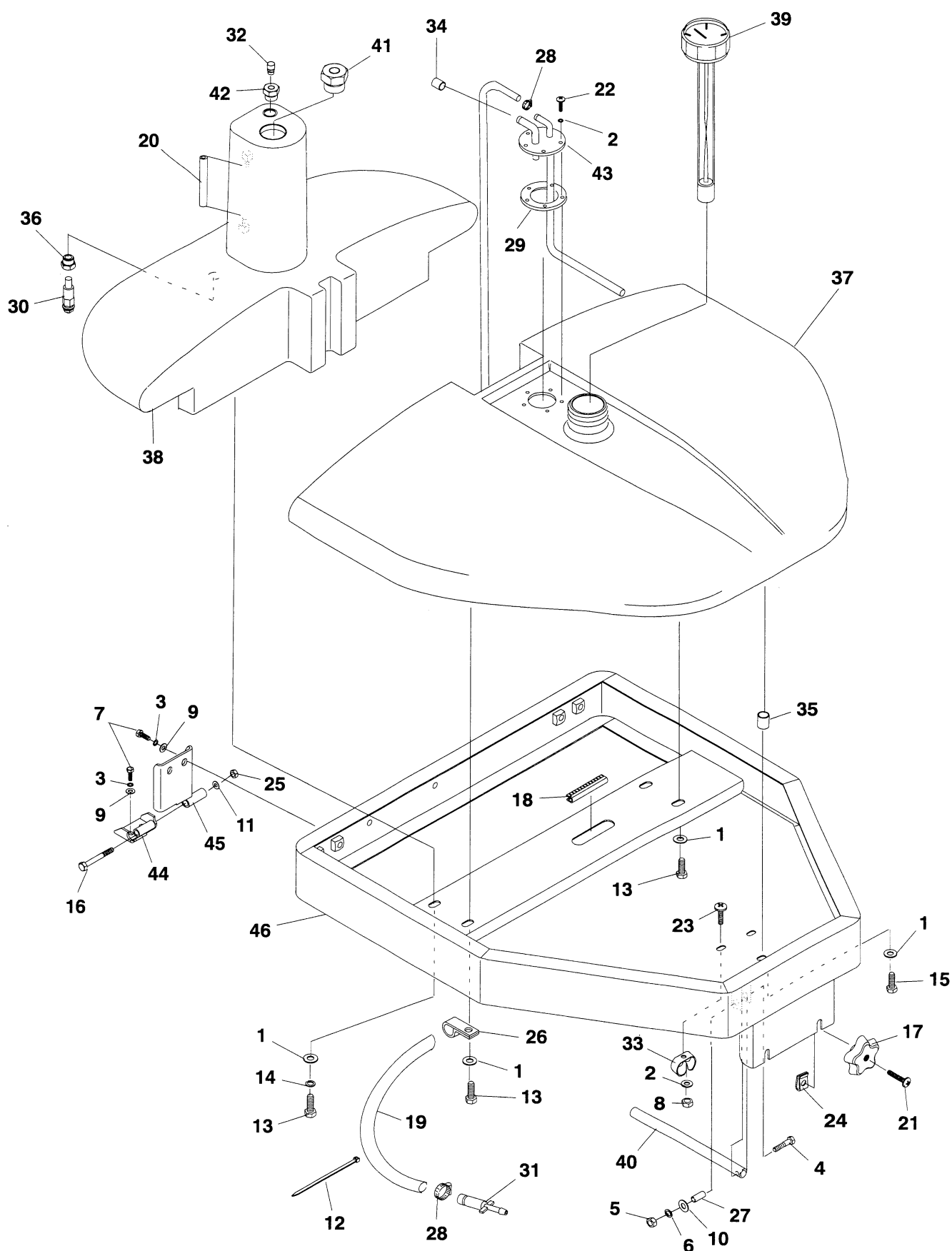
• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY



| Ref. No.                          | Part No. | Description                       | No. Req'd | Notes |
|-----------------------------------|----------|-----------------------------------|-----------|-------|
| 1                                 | 843556   | Elbow, 90°, 11/16 x 1/2 NPT ..... | 2         |       |
| 2                                 | 843557   | Elbow, 90°, 3/4 x 3/4 NPT .....   | 1         |       |
| 3                                 | 843558   | Elbow, 90°, 1 x 1 NPT .....       | 2         |       |
| 4                                 | 148231   | Fitting, 3/16, elbow .....        | 2         |       |
| 5                                 | 48310    | Bushing .....                     | 2         |       |
| 6                                 | 836206   | Clamp .....                       | 6         |       |
| 7                                 | 869037   | Fitting, 3/4 x 3/4 NPT .....      | 1         |       |
| For O-Rings, See Chart on Page 49 |          |                                   |           |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

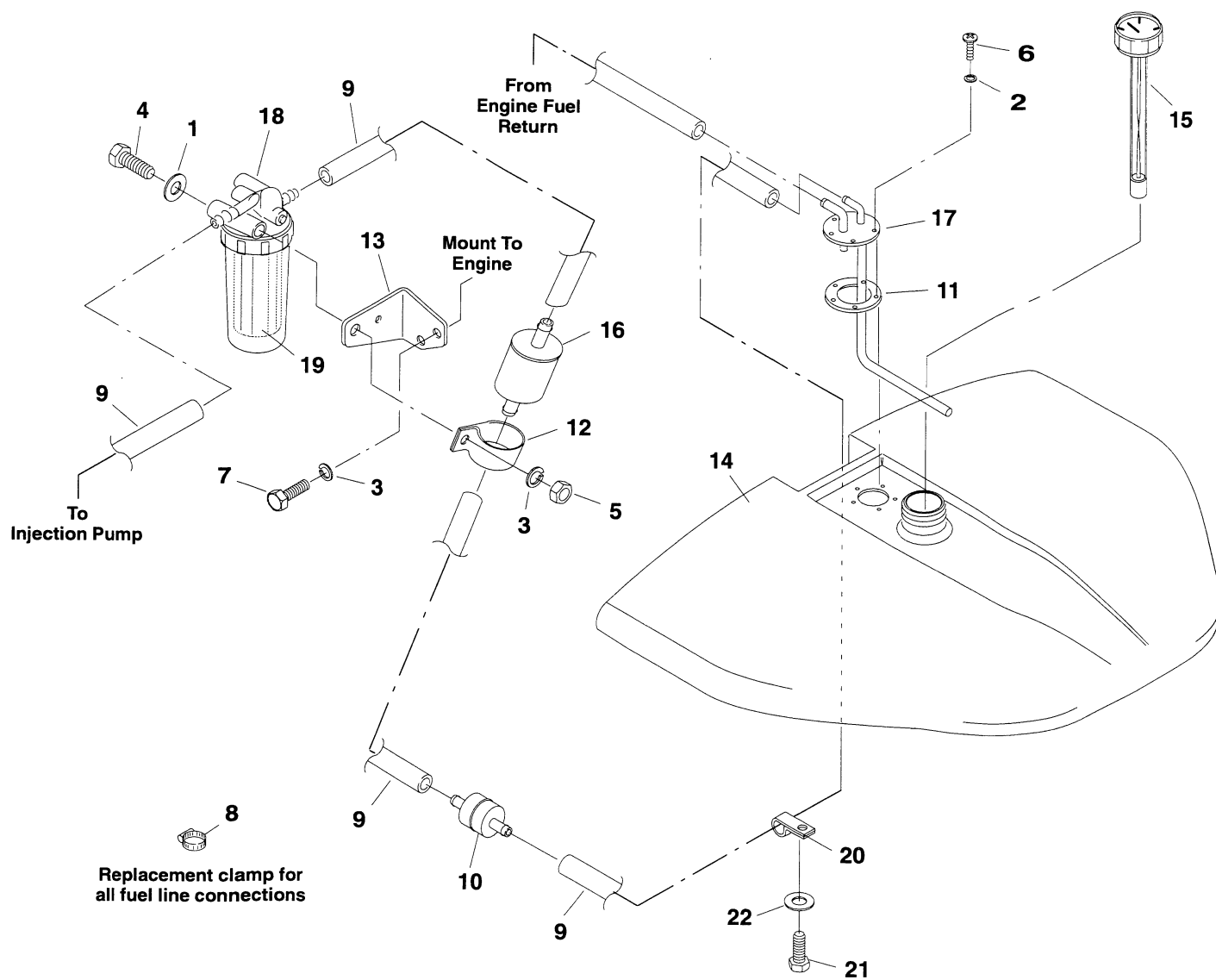
## 6.1 HYDRAULIC RESERVOIR & SUPPORT FRAME FUEL SYSTEM – GAS



# **HYDRAULIC RESERVOIR & SUPPORT FRAME 6.1** **FUEL SYSTEM – GAS**

| Ref. No.                                 | Part No.  | Description                              | No. Req'd | Notes |
|------------------------------------------|-----------|------------------------------------------|-----------|-------|
| 1                                        | 103867    | Washer, 5/16 .....                       | 5         |       |
| 2                                        | 120052    | Lockwasher, #10 .....                    | 6         |       |
| 3                                        | 120177    | Lockwasher, 3/8 .....                    | 8         |       |
| 4                                        | 303459    | Screw, 1/4–20 x 1 1/2 .....              | 1         |       |
| 5                                        | 306375    | Nut, 1/4–20 .....                        | 1         |       |
| 6                                        | 306396    | Lockwasher, 1/4 .....                    | 1         |       |
| 7                                        | 306414    | Screw, 3/8–16 x 1 .....                  | 8         |       |
| 8                                        | 306531    | Nut, #10 .....                           | 1         |       |
| 9                                        | 306981    | Washer, 3/8 .....                        | 8         |       |
| 10                                       | 308090    | Washer, 1/4 .....                        | 1         |       |
| 11                                       | 308091    | Washer, 1/2 .....                        | 2         |       |
| 12                                       | 320107    | Tie, cable, 7 1/2 (191 mm) .....         | 2         |       |
| 13                                       | 450190    | Screw, M8 x 16 .....                     | 4         |       |
| 14                                       | 450411    | Lockwasher, M8 .....                     | 2         |       |
| 15                                       | 452390    | Bolt, M8–1.25 x 30 .....                 | 1         |       |
| 16                                       | 548941    | Screw, 1/2–13 x 4 1/2 .....              | 2         |       |
| 17                                       | 607544    | Knob, nut .....                          | 2         |       |
| 18                                       | 821893    | Trim, push-on, 12' (3.7 M) .....         | As Req'd. |       |
| 19                                       | 826590    | Hose, fuel, 25' (7.6 M) .....            | As Req'd. |       |
| 20                                       | 158122-02 | Tubing, polyurethane, 100' (30.5 M) .... | As Req'd. |       |
| 21                                       | 800029    | Screw, 5/16–18 x 2 .....                 | 2         |       |
| 22                                       | 800271    | Screw, #10–24 x 1/2 .....                | 5         |       |
| 23                                       | 800296    | Screw, #10–24 x 3/4 .....                | 1         |       |
| 24                                       | 800696    | Nut, 5/16–18 .....                       | 2         |       |
| 25                                       | 800700    | Nut, 1/2–13 .....                        | 2         |       |
| 26                                       | 817320    | Clamp .....                              | 1         |       |
| 27                                       | 820529    | Spacer .....                             | 1         |       |
| 28                                       | 825624    | Clamp, hose .....                        | 2         |       |
| 29                                       | 829954    | Gasket .....                             | 1         |       |
| 30                                       | 833615    | Sender, oil temperature .....            | 1         |       |
| 31                                       | 834037    | Connector, hose .....                    | 1         |       |
| 32                                       | 836852    | Breather .....                           | 1         |       |
| 33                                       | 838225    | Clip .....                               | 1         |       |
| 34                                       | 838491    | Cap, fuel line .....                     | 1         |       |
| 35                                       | 839876    | Bushing .....                            | 1         |       |
| 36                                       | 842698    | Adapter, O-ring .....                    | 1         |       |
| 37                                       | 843267    | Tank, fuel .....                         | 1         |       |
| 38                                       | 843268    | Reservoir, oil .....                     | 1         |       |
| 39                                       | 843401    | Cap, fuel with gauge .....               | 1         |       |
| 40                                       | 843696    | Tube, support, 8" (203 mm) .....         | 1         |       |
| 41                                       | 843885    | Plug .....                               | 1         |       |
| 42                                       | 844080    | Adapter .....                            | 1         |       |
| 43                                       | 894256    | Pickup, fuel .....                       | 1         |       |
| 44                                       | 894352    | Hinge, lower .....                       | 2         |       |
| 45                                       | 894353    | Hinge, upper .....                       | 2         |       |
| 46                                       | 894354    | Frame, tank support .....                | 1         |       |
| <b>For O-Rings, See Chart on Page 49</b> |           |                                          |           |       |

## 7.1 FUEL SYSTEM (DIESEL)

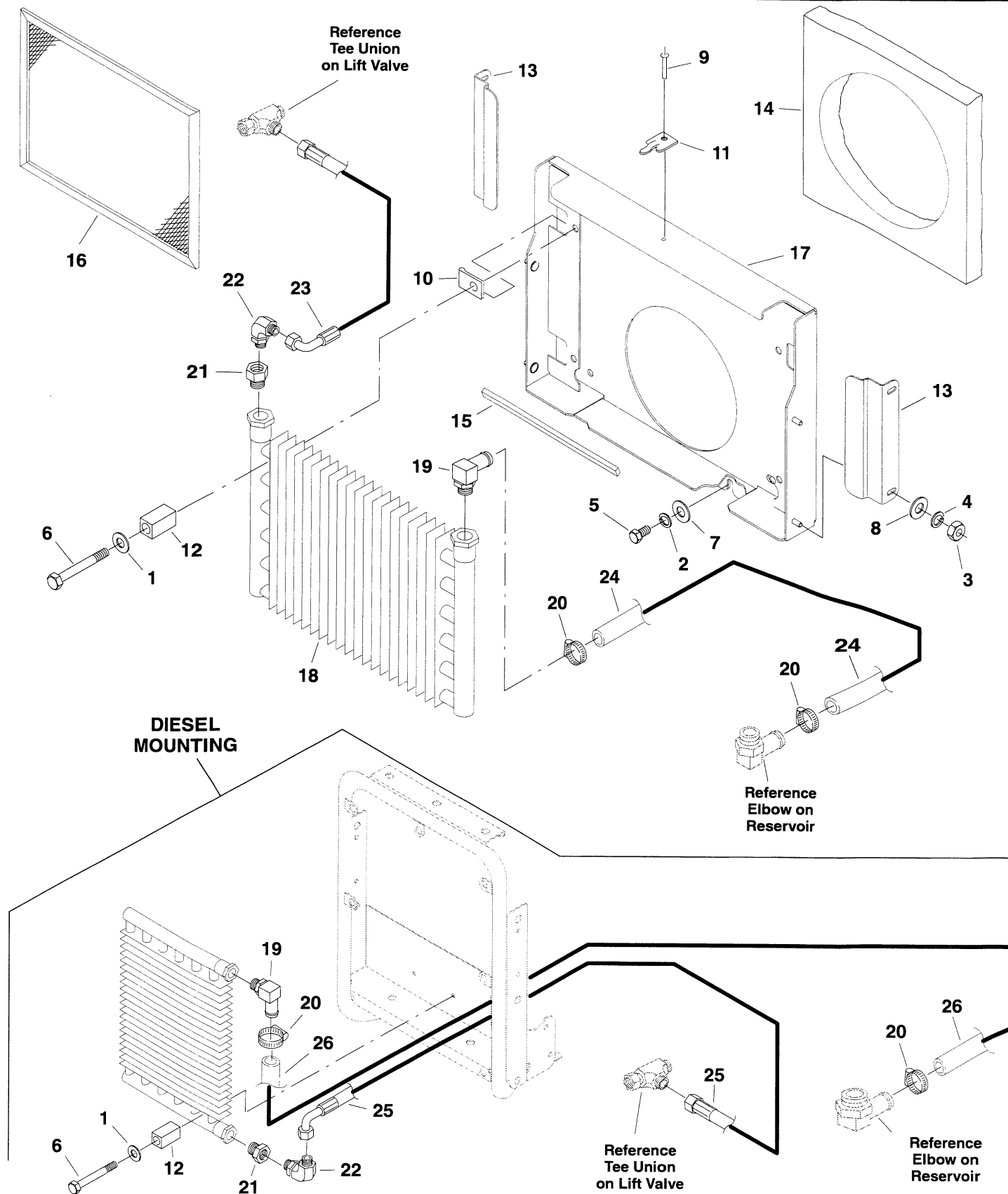


# FUEL SYSTEM (DIESEL) 7.1

| Ref. No. | Part No. | Description                          | No. Req'd | Notes                          |
|----------|----------|--------------------------------------|-----------|--------------------------------|
| 1        | 103867   | Washer, 5/16" .....                  | 1         | Obtain from your Kubota Dealer |
| 2        | 120052   | Lockwasher, #10 .....                | 5         |                                |
| 3        | 306325   | Lockwasher, 5/16" .....              | 2         |                                |
| 4        | 306823   | Screw, 5/16-18 x 2 3/4" .....        | 1         |                                |
| 5        | 306932   | Nut, 5/16-18 .....                   | 1         |                                |
| 6        | 800271   | Screw, #10-24 x 1/2" .....           | 5         |                                |
| 7        | 800548   | Screw, M8-1.25 x 20mm .....          | 1         |                                |
| 8        | 825624   | Clamp, hose .....                    | As Req'd  |                                |
| 9        | 826590   | Hose, fuel, 25' (7.6 M) .....        | As Req'd  |                                |
| 10       | 825619   | Filter, fuel .....                   | 1         |                                |
| 11       | 829954   | Gasket .....                         | 1         |                                |
| 12       | 838154   | Bracket, fuel pump mount .....       | 1         |                                |
| 13       | 839975   | Bracket, mounting, fuel filter ..... | 1         |                                |
| 14       | 843267   | Tank, fuel .....                     | 1         |                                |
| 15       | 843401   | Cap, fuel w/gauge .....              | 1         |                                |
| 16       | 891476   | Pump, fuel .....                     | 1         |                                |
| 17       | 894256   | Pickup, fuel .....                   | 1         |                                |
| 18       |          | Filter Assembly, fuel .....          | 1         |                                |
| 19       | 840161   | •Element, fuel filter .....          | 1         |                                |
| 20       | 817320   | Clamp .....                          | 1         |                                |
| 21       | 450190   | Screw, M8 x 16mm .....               | 1         |                                |
| 22       | 450390   | Washer, M8 .....                     | 1         |                                |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 8.1 OIL COOLER MOUNTING

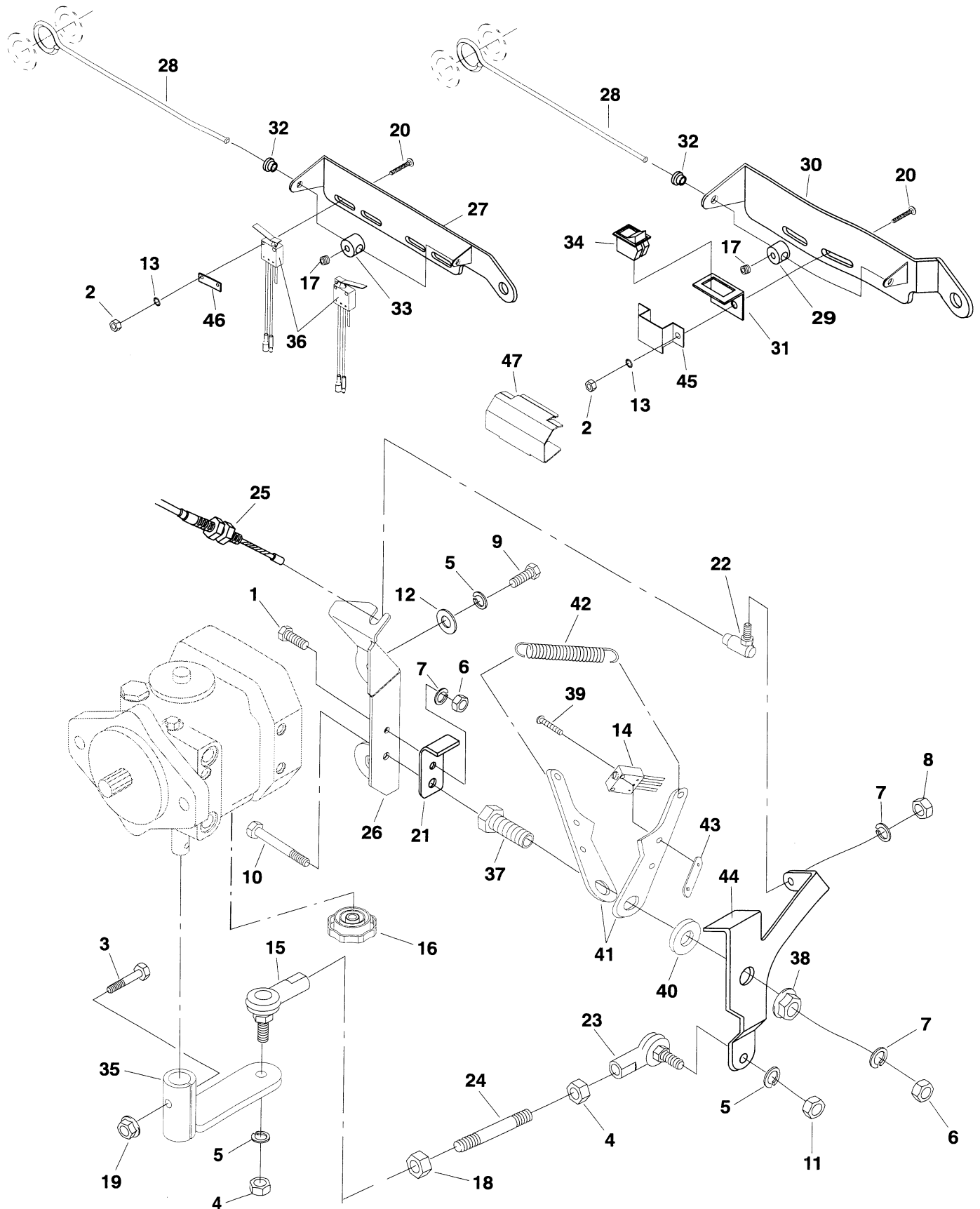


# OIL COOLER MOUNTING 8.1

| Ref. No.                          | Part No. | Description                                                         | No. Req'd | Notes |
|-----------------------------------|----------|---------------------------------------------------------------------|-----------|-------|
| 1                                 | 103867   | Washer, 5/16" .....                                                 | 4         |       |
| 2                                 | 120177   | Lockwasher, 3/8" .....                                              | 4         |       |
| 3                                 | 306375   | Nut, 1/4-20 .....                                                   | 4         |       |
| 4                                 | 306396   | Lockwasher, 1/4" .....                                              | 4         |       |
| 5                                 | 306414   | Screw, 3/8-16 x 1" .....                                            | 4         |       |
| 6                                 | 306423   | Screw, 5/16-18 x 1 3/4" .....                                       | 4         |       |
| 7                                 | 306981   | Washer, 3/8" .....                                                  | 4         |       |
| 8                                 | 308090   | Washer, 1/4" .....                                                  | 4         |       |
| 9                                 | 800475   | Rivet, pop, 13/64" x 3/8" .....                                     | 1         |       |
| 10                                | 800536   | Nut, speed, 5/16-18 .....                                           | 4         |       |
| 11                                | 835039   | Fastener, snap .....                                                | 1         |       |
| 12                                | 839501   | Mounting block, oil cooler .....                                    | 4         |       |
| 13                                | 839516   | Angle, screen .....                                                 | 2         |       |
| 14                                | 839829   | Seal, cooler .....                                                  | 1         |       |
| 15                                | 830355   | Seal, cooler .....                                                  | As Req'd  |       |
| 16                                | 843823   | Screen, cooler .....                                                | 1         |       |
| 17                                | 893864   | Housing, oil cooler .....                                           | 1         |       |
| 18                                | 842916   | Cooler, oil .....                                                   | 1         |       |
| 19                                | 523768   | Adapter, elbow 90° .....                                            | 1         |       |
| 20                                | 836206   | Clamp, hose .....                                                   | 2         |       |
| 21                                | 839807   | Adapter, straight .....                                             | 1         |       |
| 22                                | 839821   | Adapter, elbow 90° .....                                            | 1         |       |
| 23                                | 843924   | Hose, hydraulic, 1/2" id x 22"<br>(13mm id, x 559mm) (GAS) .....    | 1         |       |
| 24                                | 843929   | Hose, hydraulic, 3/4" id x 36"<br>(19mm id, x 914mm) (GAS) .....    | 1         |       |
| 25                                | 843925   | Hose, hydraulic, 1/2" id x 53"<br>(13mm id, x 1.35M) (DIESEL) ..... | 1         |       |
| 26                                | 843930   | Hose, hydraulic, 3/4" id x 66"<br>(19mm id, x 1.68M) (DIESEL) ..... | 1         |       |
| For O-Rings, See Chart on Page 49 |          |                                                                     |           |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

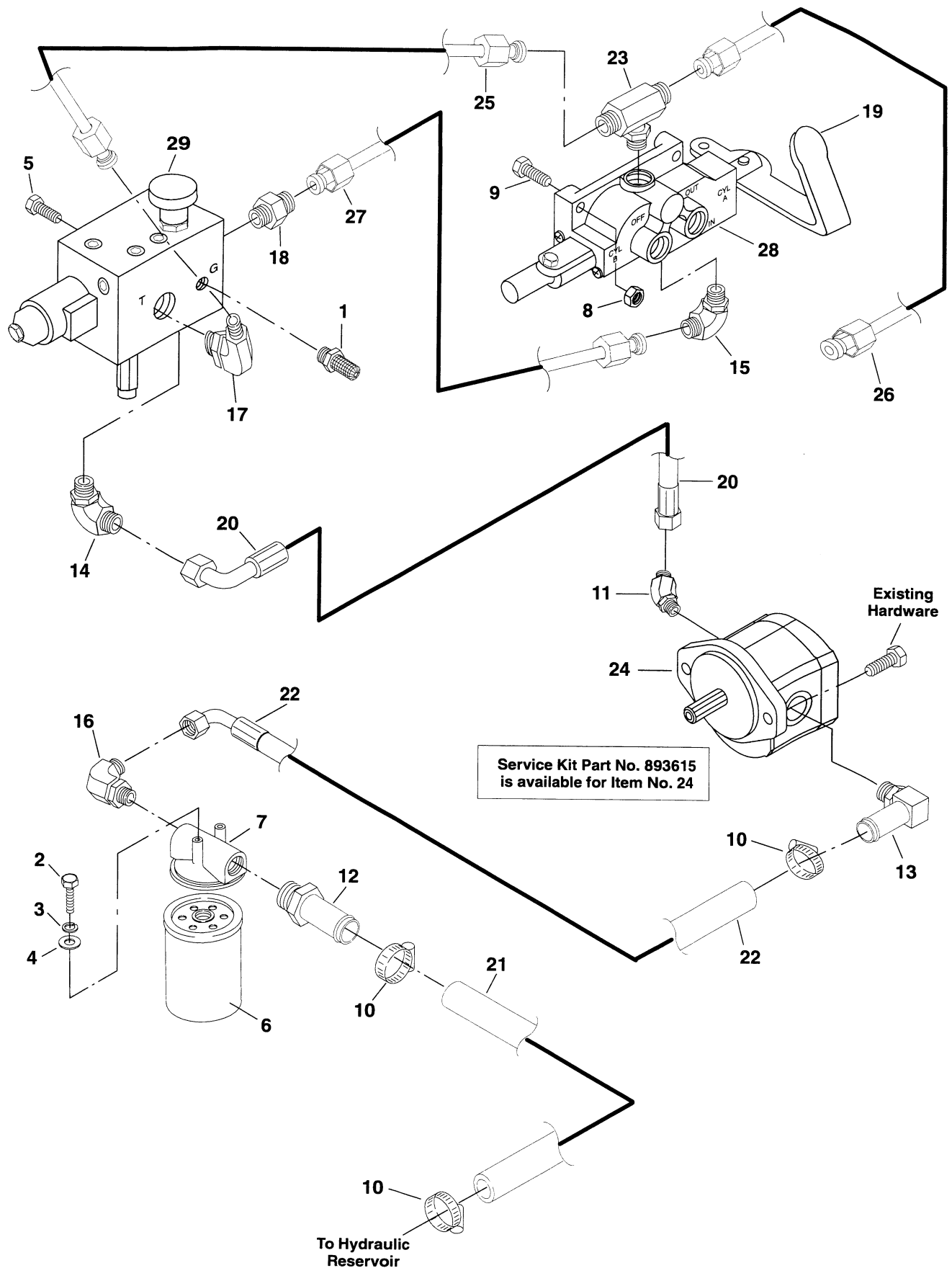
## 9.1 HEAD LIFT AND PUMP CONTROL LINKAGE



# HEAD LIFT AND PUMP CONTROL LINKAGE 9.1

| Ref. No.                          | Part No. | Description                               | No. Req'd | Notes |
|-----------------------------------|----------|-------------------------------------------|-----------|-------|
| 1                                 | 300646   | Screw, 1/4-20 x 3/4 .....                 | 1         |       |
| 2                                 | 302437   | Nut, #6-32 .....                          | 6         |       |
| 3                                 | 303459   | Screw, 1/4-20 x 1 1/2 .....               | 1         |       |
| 4                                 | 306320   | Nut, 5/16-24 .....                        | 2         |       |
| 5                                 | 306325   | Lockwasher, 5/16 .....                    | 4         |       |
| 6                                 | 306375   | Nut, 1/4-20 .....                         | 2         |       |
| 7                                 | 306396   | Lockwasher, 1/4 .....                     | 2         |       |
| 8                                 | 306397   | Nut, 1/4-28 .....                         | 1         |       |
| 9                                 | 306416   | Screw, 5/16-18 x 1 .....                  | 2         |       |
| 10                                | 306464   | Screw, 5/16-18 x 2 1/2 .....              | 1         |       |
| 11                                | 306932   | Nut, 5/16-18 .....                        | 1         |       |
| 12                                | 306981   | Washer, 3/8 .....                         | 1         |       |
| 13                                | 306990   | Lockwasher, #6 .....                      | 6         |       |
| 14                                | 894385   | Switch, normally open .....               | 2         |       |
| 15                                | 523253   | End, control rod (left hand thread) ..... | 1         |       |
| 16                                | 523409   | Knob .....                                | 1         |       |
| 17                                | 548205   | Screw, 1/4-20 x 1/4 .....                 | 2         |       |
| 18                                | 800543   | Nut, 5/16-24 (left hand thread) .....     | 1         |       |
| 19                                | 800706   | Nut, crownlock flange, 1/4-20 .....       | 1         |       |
| 20                                | 800955   | Screw, #6-32 x 3/4 .....                  | 6         |       |
| 21                                | 827316   | Stop, neutral control arm .....           | 1         |       |
| 22                                | 831518   | Ball Joint .....                          | 1         |       |
| 23                                | 831586   | Ball Joint (right hand thread) .....      | 1         |       |
| 24                                | 838093   | Rod, threaded, 5/16-24 x 2 1/2" .....     | 1         |       |
| 25                                | 842999   | Cable, control .....                      | 1         |       |
| 26                                | 843119   | Bracket, pump control .....               | 1         |       |
| 27                                | 843284   | Frame, switch .....                       | 1         |       |
| 28                                | 843285   | Rod, switch .....                         | 2         |       |
| 29                                | 843286   | Collar, switch .....                      | 1         |       |
| 30                                | 843287   | Frame, switch .....                       | 1         |       |
| 31                                | 843288   | Bracket, switch .....                     | 1         |       |
| 32                                | 843289   | Bearing, split .....                      | 4         |       |
| 33                                | 843739   | Collar, switch .....                      | 1         |       |
| 34                                | 843990   | Switch, rocker .....                      | 1         |       |
| 35                                | 894102   | Arm, pump control .....                   | 1         |       |
| 36                                | 894520   | Switch, roller NC .....                   | 2         |       |
| 37                                | 523492   | Bushing .....                             | 1         |       |
| 38                                | 800559   | Nut, crownlock flange, 1/2-20 .....       | 1         |       |
| 39                                | 800897   | Screw, tapping, #4-40 x 3/4" .....        | 4         |       |
| 40                                | 809180   | Washer, 7/16" .....                       | 1         |       |
| 41                                | 827320   | Arm, spring retainer .....                | 2         |       |
| 42                                | 840476   | Spring .....                              | 1         |       |
| 43                                | 841151   | Nut, twin tapping, #4 .....               | 2         |       |
| 44                                | 843117   | Arm, control .....                        | 1         |       |
| 45                                | 845062   | Cover, switch .....                       | 1         |       |
| 46                                | 845063   | Retainer, switch .....                    | 2         |       |
| 47                                | 2700942  | Shield, Switch .....                      | 1         |       |
| For O-Rings, See Chart on Page 49 |          |                                           |           |       |

## 10.1 HYDRAULIC PUMP AND VALVES

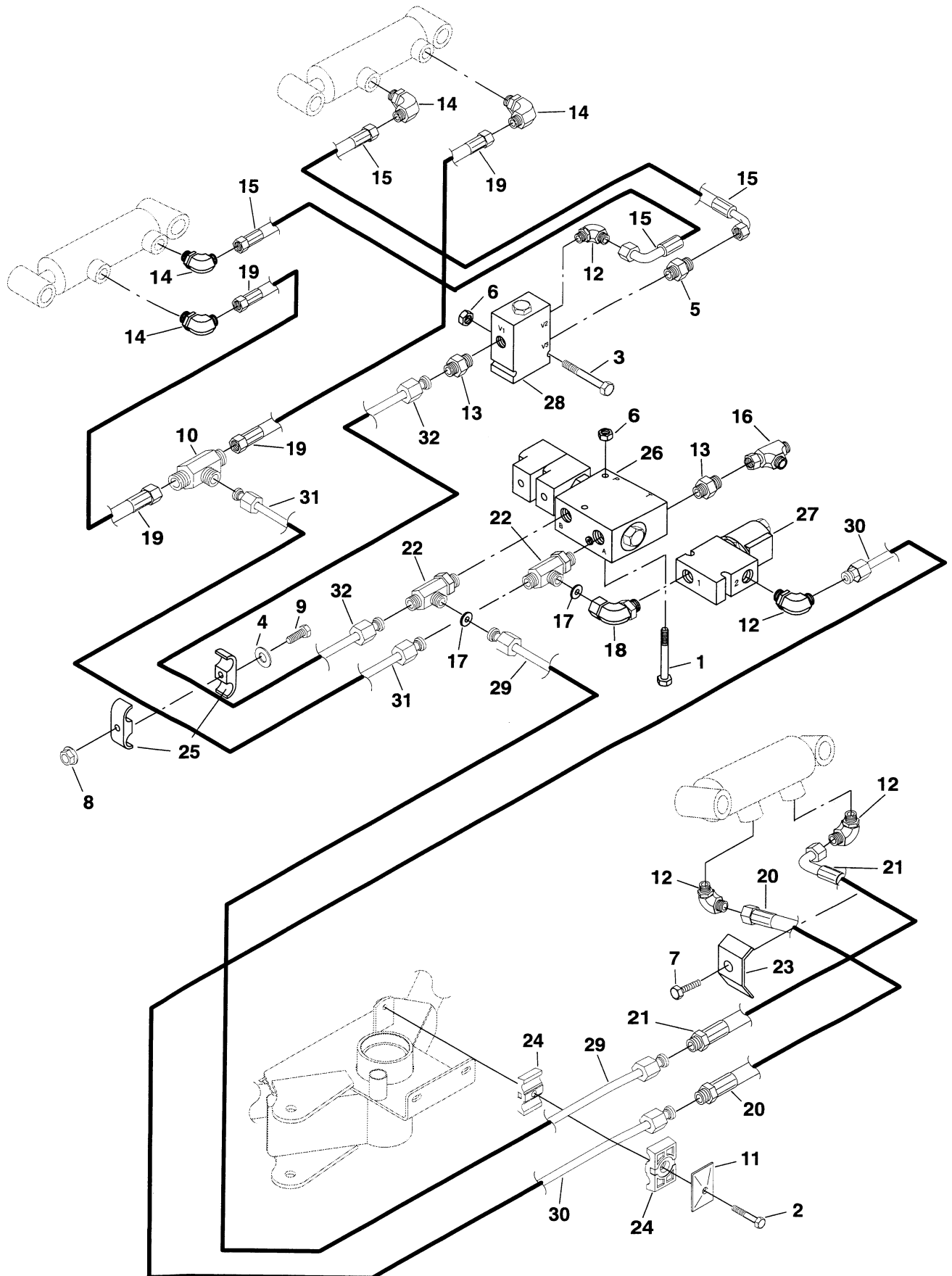


# HYDRAULIC PUMP AND VALVES 10.1

| Ref. No.                          | Part No. | Description                                                   | No. Req'd | Notes           |
|-----------------------------------|----------|---------------------------------------------------------------|-----------|-----------------|
| 1                                 | 178079   | Fitting, test .....                                           | 1         | Not Illustrated |
| 2                                 | 300646   | Screw, 1/4-20 x 3/4" .....                                    | 2         |                 |
| 3                                 | 306396   | Lockwasher, 1/4" .....                                        | 1         |                 |
| 4                                 | 308090   | Washer, 1/4" .....                                            | 2         |                 |
| 5                                 | 306424   | Screw, M10-1.5 x 20 .....                                     | 2         |                 |
| 6                                 | 522972   | Filter, hydraulic .....                                       | 1         |                 |
| 7                                 | 547818   | Head, hydraulic filter .....                                  | 1         |                 |
| 8                                 | 548910   | Nut, 1/4-20 .....                                             | 3         |                 |
| 9                                 | 800871   | Screw, 1/4-20 x 1 1/4" .....                                  | 3         |                 |
| 10                                | 836206   | Clamp, hose .....                                             | 3         |                 |
| 11                                | 838026   | Adaptor, 45° .....                                            | 1         |                 |
| 12                                | 839556   | Fitting, adaptor, straight .....                              | 1         |                 |
| 13                                | 839557   | Fitting, adaptor, 90° .....                                   | 1         |                 |
| 14                                | 839562   | Fitting, adaptor, 45° .....                                   | 1         |                 |
| 15                                | 839819   | Adaptor, elbow 90° .....                                      | 1         |                 |
| 16                                | 839820   | Adaptor, elbow 90° .....                                      | 1         |                 |
| 17                                | 839821   | Adaptor, elbow 90° .....                                      | 1         |                 |
| 18                                | 841697   | Adaptor, straight .....                                       | 1         |                 |
| 19                                | 843411   | Lever, valve .....                                            | 1         |                 |
| 20                                | 843923   | Hose, hyd. 1/2" i.d. x 28"<br>(13 mm i.d. x 711 mm) .....     | 1         |                 |
| 21                                | 843931   | Hose, hyd. 1" i.d. x 15"<br>(25.4 mm i.d. x 381 mm) .....     | 1         |                 |
| 22                                | 843932   | Hose, hyd. 1" i.d. x 26 1/2"<br>(25.4 mm i.d. x 673 mm) ..... | 1         |                 |
| 23                                | 844071   | Tee, branch .....                                             | 1         |                 |
| 24                                | 894104   | Pump, hydraulic .....                                         | 1         |                 |
|                                   | 893615   | •Service Kit .....                                            | As Req'd  |                 |
| 25                                | 894244   | Line, hydraulic .....                                         | 1         |                 |
| 26                                | 894245   | Line, hydraulic .....                                         | 1         |                 |
| 27                                | 894248   | Line, hydraulic .....                                         | 1         |                 |
| 28                                | 2208047  | Valve, 4 way 3 position .....                                 | 1         |                 |
| 29                                | 2208146  | Valve, reel drive .....                                       | 1         |                 |
| For O-Rings, See Chart on Page 49 |          |                                                               |           |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 11.1 HYDRAULIC LIFT CIRCUIT

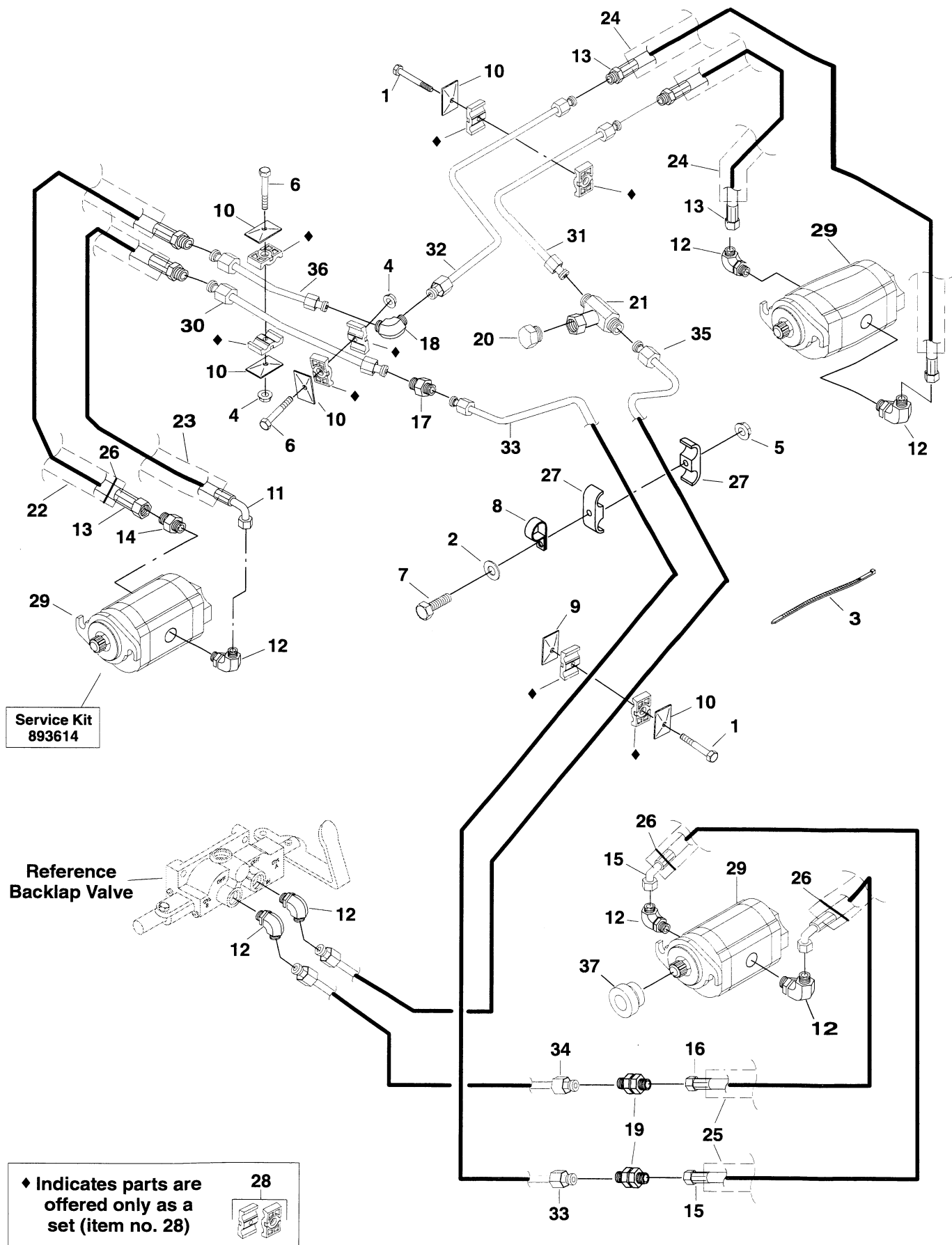


# HYDRAULIC LIFT CIRCUIT 11.1

| Ref. No.                          | Part No. | Description                                                   | No. Req'd | Notes |
|-----------------------------------|----------|---------------------------------------------------------------|-----------|-------|
| 1                                 | 302754   | Screw, 1/4-20 x 2 1/4" .....                                  | 2         |       |
| 2                                 | 306501   | Screw, 5/16-18 x 1 1/2" .....                                 | 1         |       |
| 3                                 | 306832   | Screw, 1/4-20 x 2" .....                                      | 2         |       |
| 4                                 | 308090   | Washer, 1/4" .....                                            | 2         |       |
| 5                                 | 523749   | Adapter, straight .....                                       | 1         |       |
| 6                                 | 548910   | Nut, 1/4-20 .....                                             | 4         |       |
| 7                                 | 548971   | Screw, 5/16-18 x 5/8" .....                                   | 1         |       |
| 8                                 | 800706   | Nut, 1/4-20, flange crownlock .....                           | 1         |       |
| 9                                 | 800871   | Screw, 1/4-20 x 1 1/4" .....                                  | 1         |       |
| 10                                | 836600   | Tee, union .....                                              | 3         |       |
| 11                                | 837736   | Plate, clamp cover .....                                      | 2         |       |
| 12                                | 838035   | Adaptor, elbow 90° .....                                      | 3         |       |
| 13                                | 838036   | Adaptor, straight .....                                       | 1         |       |
| 14                                | 839831   | Adaptor, elbow, 90° .....                                     | 4         |       |
| 15                                | 839837   | Hose, hydr. 1/4" i.d. x 10 1/2"<br>(6 mm i.d. x 267 mm) ..... | 2         |       |
| 16                                | 841439   | Tee, o-ring .....                                             | 1         |       |
| 17                                | 841522   | Disk, orifice .....                                           | 2         |       |
| 18                                | 841700   | Adaptor, elbow, 90° .....                                     | 1         |       |
| 19                                | 843908   | Hose, hydraulic 1/4 ID x 10 5/8"<br>(6 mm ID x 270 mm) .....  | 2         |       |
| 20                                | 843916   | Hose, hydraulic 3/8 ID x 39"<br>(9.5 mm ID x 991 mm) .....    | 1         |       |
| 21                                | 843917   | Hose, hydraulic 3/8 ID x 39"<br>(9.5 mm ID x 991 mm) .....    | 1         |       |
| 22                                | 844068   | Tee, run .....                                                | 2         |       |
| 23                                | 844215   | Clamp, tube .....                                             | 1         |       |
| 24                                | 844218   | Set, clamp 3/8" .....                                         | 1         |       |
| 25                                | 844219   | Clamp, tube 3/8" .....                                        | 1         |       |
| 26                                | 894181   | Valve, solenoid 4way 3pos .....                               | 1         |       |
| 27                                | 894182   | Valve, solenoid 2way 2pos .....                               | 1         |       |
| 28                                | 894184   | Valve, divider combiner .....                                 | 1         |       |
| 29                                | 894240   | Line assembly, hydraulic .....                                | 1         |       |
| 30                                | 894241   | Line assembly, hydraulic .....                                | 1         |       |
| 31                                | 894242   | Line assembly, hydraulic .....                                | 1         |       |
| 32                                | 894243   | Line assembly, hydraulic .....                                | 1         |       |
| For O-Rings, See Chart on Page 49 |          |                                                               |           |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

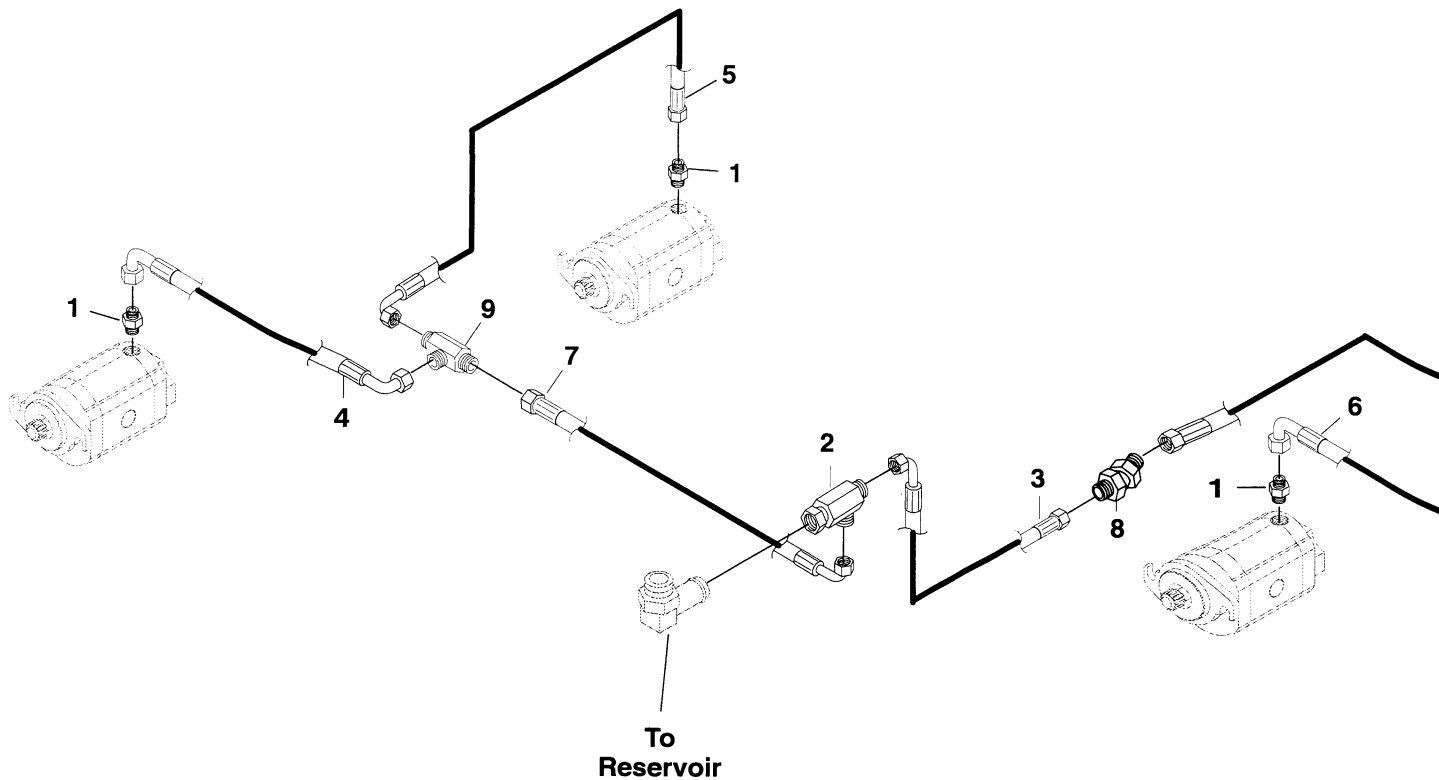
## 11.2 HYDRAULIC REEL CIRCUIT



| Ref. No.                          | Part No. | Description                                                   | No. Req'd | Notes           |
|-----------------------------------|----------|---------------------------------------------------------------|-----------|-----------------|
| 1                                 | 306424   | Screw, 5/16-18 x 2 .....                                      | 2         | Not Illustrated |
| 2                                 | 308090   | Washer 1/4 .....                                              | 1         |                 |
| 3                                 | 320107   | Tie, cable .....                                              | As Req'd  |                 |
| 4                                 | 800697   | Nut, crownlock flange, 5/16-18 .....                          | 2         |                 |
| 5                                 | 800706   | Nut, crownlock flange, 1/4-20 .....                           | 1         |                 |
| 6                                 | 800715   | Screw, flange, 5/16-18 x 2 1/4" .....                         | 2         |                 |
| 7                                 | 800871   | Screw, flange, 1/4-20 x 1 1/4" .....                          | 1         |                 |
| 8                                 | 814924   | Clamp, hose .....                                             | 1         |                 |
| 9                                 | 837735   | Plate, twin weld .....                                        | 1         |                 |
| 10                                | 837736   | Plate, clamp cover .....                                      | 5         |                 |
| 11                                | 839814   | Hose, hyd. 1/2" i.d. x 38"<br>(13 mm i.d. x 965 mm) .....     | 1         |                 |
| 12                                | 839821   | Adaptor, elbow, 90° .....                                     | 7         |                 |
| 13                                | 841673   | Hose, hyd. 1/2" i.d. x 34"<br>(13 mm i.d. x 864 mm) .....     | 3         |                 |
| 14                                | 841697   | Adaptor, straight .....                                       | 1         |                 |
| 15                                | 843921   | Hose, hyd. 1/2" i.d. x 47 1/2"<br>(13 mm i.d. x 1.21 M) ..... | 1         |                 |
| 16                                | 843922   | Hose, hyd. 1/2" i.d. x 43 1/4"<br>(13 mm i.d. x 1.1 M) .....  | 1         |                 |
| 17                                | 843989   | Union, male .....                                             | 1         |                 |
| 18                                | 843991   | Elbow, male .....                                             | 1         |                 |
| 19                                | 844072   | Union, bhead .....                                            | 2         |                 |
| 20                                | 844078   | Plug .....                                                    | 1         |                 |
| 21                                | 844082   | Tee, branch .....                                             | 1         |                 |
| 22                                | 844083   | Sleeve, nylon, 1 7/8" x 38"<br>(48 mm x 965 mm) .....         | 1         |                 |
| 23                                | 844084   | Sleeve, nylon, 1 7/8" x 43"<br>(48 mm x 1.1 M) .....          | 1         |                 |
| 24                                | 844085   | Sleeve, nylon, 1 7/8" x 52"<br>(48 mm x 1.32 M) .....         | 2         |                 |
| 25                                | 844214   | Sleeve, nylon, 1 7/8" x 48"<br>(48 mm x 1.22 M) .....         | 2         |                 |
| 26                                | 844216   | Clamp, hose .....                                             | 8         |                 |
| 27                                | 844217   | Clamp, tube .....                                             | 1         |                 |
| 28                                | 892418   | Set, clamp hydraulic .....                                    | 4         |                 |
| 29                                | 893999   | Motor, reel drive .....                                       | 3         |                 |
|                                   | 893614   | •Service Kit .....                                            | As Req'd  |                 |
| 30                                | 894129   | Line, hydraulic .....                                         | 1         |                 |
| 31                                | 894130   | Line, hydraulic .....                                         | 1         |                 |
| 32                                | 894131   | Line, hydraulic .....                                         | 1         |                 |
| 33                                | 894246   | Line, hydraulic .....                                         | 1         |                 |
| 34                                | 894247   | Line, hydraulic .....                                         | 1         |                 |
| 35                                | 894249   | Line, hydraulic .....                                         | 1         |                 |
| 36                                | 894254   | Line, hydraulic .....                                         | 1         |                 |
| 37                                | 337370   | Coupling, drive .....                                         | 3         |                 |
| For O-Rings, See Chart on Page 49 |          |                                                               |           |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 11.3 REEL CASE DRAIN CIRCUIT



| Ref. No.                                 | Part No. | Description                                                  | No. Req'd | Notes |
|------------------------------------------|----------|--------------------------------------------------------------|-----------|-------|
| 1                                        | 523764   | Adapter, straight .....                                      | 3         |       |
| 2                                        | 838565   | Tee, O-ring .....                                            | 1         |       |
| 3                                        | 842830   | Hose, hyd. 1/4" i.d. x 22"<br>(6 mm i.d. x 559 mm) .....     | 1         |       |
| 4                                        | 843909   | Hose, hyd. 1/4" i.d. x 40 1/2"<br>(6 mm i.d. x 1.03 M) ..... | 1         |       |
| 5                                        | 843910   | Hose, hyd. 1/4" i.d. x 49"<br>(6 mm i.d. x 1.245 M) .....    | 1         |       |
| 6                                        | 843911   | Hose, hyd. 1/4" i.d. x 47 1/2"<br>(6 mm i.d. x 1.21 M) ..... | 1         |       |
| 7                                        | 843913   | Hose, hyd. 1/4" i.d. x 76"<br>(6 mm i.d. x 1.93 M) .....     | 1         |       |
| 8                                        | 843915   | Union, bhead 45° .....                                       | 1         |       |
| 9                                        | 844069   | Tee, bhead .....                                             | 1         |       |
| <b>For O-Rings, See Chart on Page 49</b> |          |                                                              |           |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## NOTES

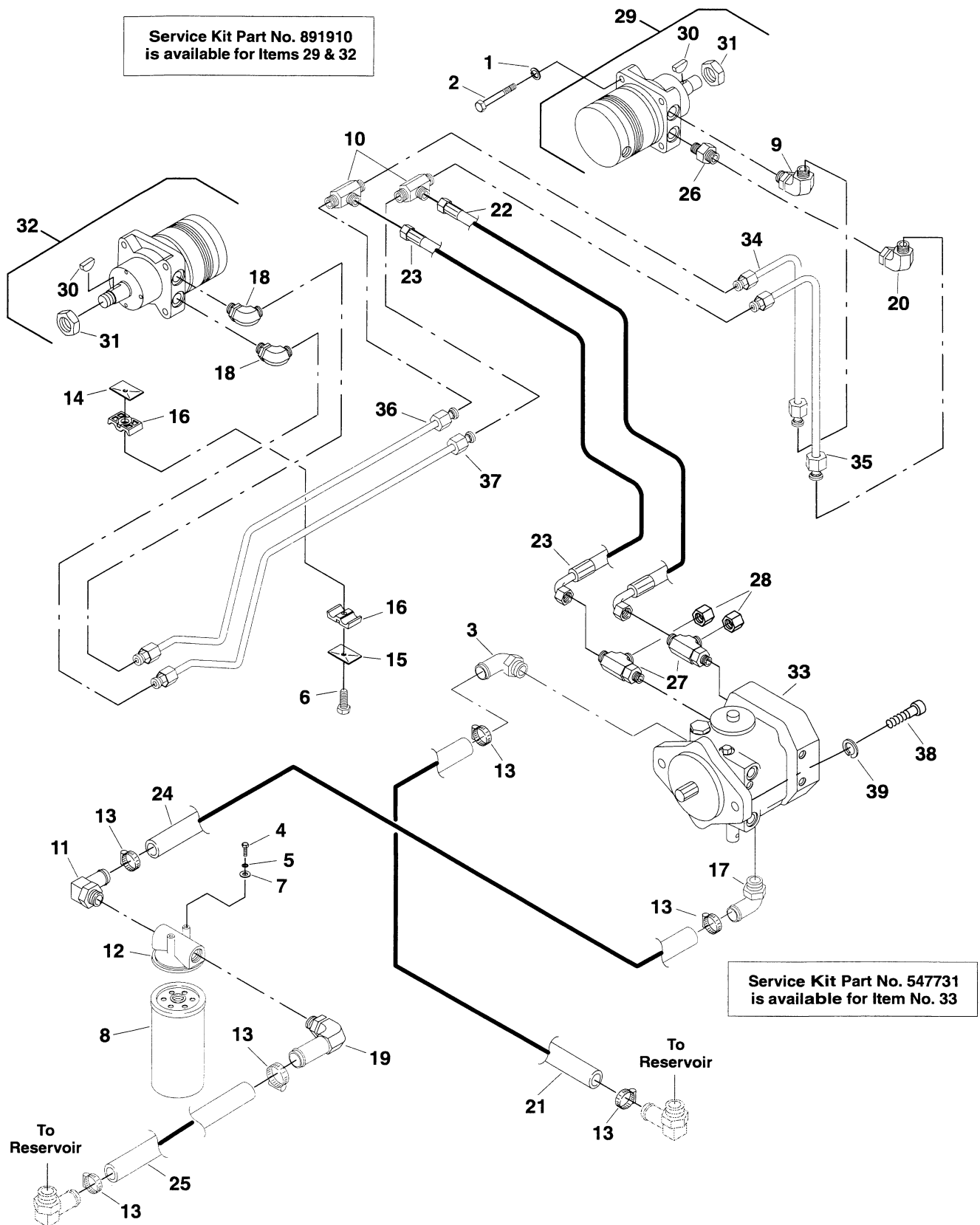
### SERVICE "O" RINGS AVAILABLE

#### FLAT FACE "O" RINGS

#### SAE PORT "O" RINGS

| Part Number | Tube I.D. | AS-568# |  | Part Number | Thread Size | AS-568# |
|-------------|-----------|---------|--|-------------|-------------|---------|
| 158061-04   | 1/4"      | -011    |  | 158061-10   | 9/16-18     | -906    |
| 158061-01   | 3/8"      | -012    |  | 158061-11   | 3/4-16      | -908    |
| 158061-02   | 1/2"      | -014    |  | 158061-12   | 7/8-14      | -910    |
| 158061-08   | 5/8"      | -016    |  | 158061-13   | 1 1/16-12   | -912    |
| 158061-09   | 3/4"      | -018    |  | 158061-14   | 1 5/16-12   | -916    |
| 158061-19   | 1"        | -021    |  | 158061-16   | 1 5/8-12    | -920    |
| 158061-15   | 1 1/4"    | -025    |  | 158061-03   | 1 7/8-12    | -924    |

## 11.5 HYDRAULIC WHEEL DRIVE CIRCUIT

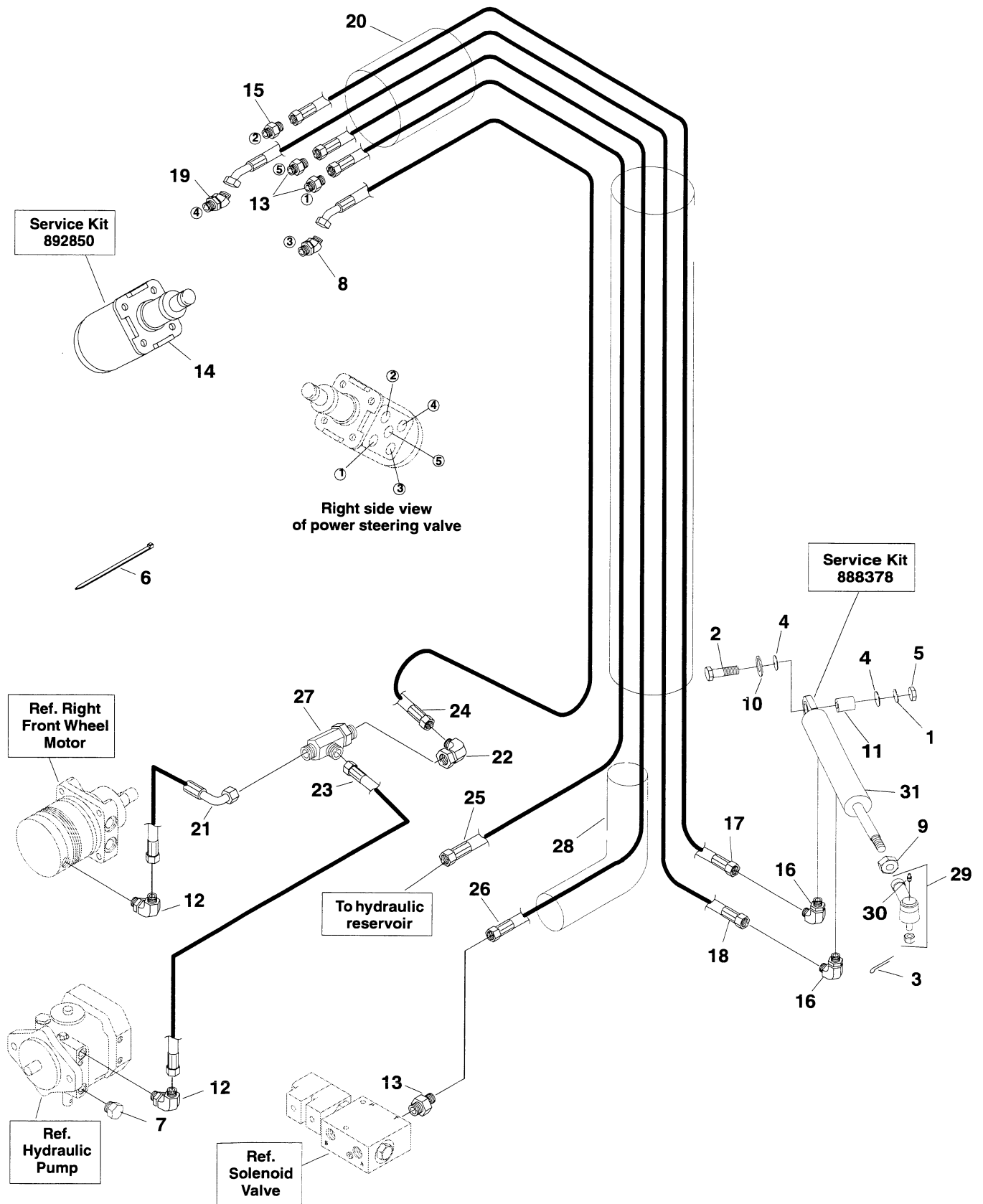


## HYDRAULIC WHEEL DRIVE CIRCUIT 11.5

| Ref. No.                                 | Part No.  | Description                                                             | No. Req'd | Notes           |
|------------------------------------------|-----------|-------------------------------------------------------------------------|-----------|-----------------|
| 1                                        | 120166    | Lockwasher, 1/2" . . . . .                                              | 8         |                 |
| 2                                        | 131981    | Screw, 1/2-13 x 2 1/2" . . . . .                                        | 8         |                 |
| 3                                        | 158058-01 | Fitting, adaptor, 90° . . . . .                                         | 1         |                 |
| 4                                        | 300646    | Screw, 1/4-20 x 3/4" . . . . .                                          | 2         |                 |
| 5                                        | 306396    | Lockwasher, 1/4" . . . . .                                              | 2         |                 |
| 6                                        | 306501    | Screw, 5/16-18 x 1 1/2" . . . . .                                       | 1         |                 |
| 7                                        | 308090    | Washer, 1/4" . . . . .                                                  | 2         |                 |
| 8                                        | 522972    | Filter, hydraulic oil . . . . .                                         | 1         |                 |
| 9                                        | 523759    | Adaptor, elbow, 90° . . . . .                                           | 1         |                 |
| 10                                       | 523761    | Adaptor, tee . . . . .                                                  | 2         |                 |
| 11                                       | 523768    | Adaptor, elbow, 90° . . . . .                                           | 1         |                 |
| 12                                       | 547818    | Head, filter . . . . .                                                  | 1         |                 |
| 13                                       | 836206    | Clamp, hose . . . . .                                                   | 6         |                 |
| 14                                       | 837735    | Plate, twin weld . . . . .                                              | 1         |                 |
| 15                                       | 837736    | Plate, clamp cover . . . . .                                            | 1         |                 |
| 16                                       | 837737    | Set, clamp, hydraulic . . . . .                                         | 1         |                 |
| 17                                       | 837753    | Adaptor, elbow, 90° . . . . .                                           | 1         |                 |
| 18                                       | 838019    | Adaptor, elbow, 45° . . . . .                                           | 4         |                 |
| 19                                       | 839557    | Fitting, adaptor, elbow, 90° . . . . .                                  | 1         |                 |
| 20                                       | 841699    | Adaptor, elbow, 90° . . . . .                                           | 1         |                 |
| 21                                       | 843914    | Hose, hydraulic, 3/4" i.d. x 17"<br>(19 mm i.d. x 432 mm) . . . . .     | 1         |                 |
| 22                                       | 843926    | Hose, hydraulic, 1/2" i.d. x 16 3/4"<br>(13 mm i.d. x 425 mm) . . . . . | 1         |                 |
| 23                                       | 843927    | Hose, hydraulic, 1/2" i.d. x 18 1/2"<br>(13 mm i.d. x 470 mm) . . . . . | 1         |                 |
| 24                                       | 843928    | Hose, hydraulic, 3/4" i.d. x 22 1/2"<br>(19 mm i.d. x 572 mm) . . . . . | 2         |                 |
| 25                                       | 843933    | Hose, hydraulic, 1" i.d. x 12 3/4"<br>(25.4 mm i.d. x 324 mm) . . . . . | 1         |                 |
| 26                                       | 844073    | Connector . . . . .                                                     | 2         |                 |
| 27                                       | 844075    | Tee, run . . . . .                                                      | 1         |                 |
| 28                                       | 844077    | Cap . . . . .                                                           | 1         |                 |
| 29                                       | 892344    | Motor, hydraulic HOS . . . . .                                          | 1         |                 |
| 30                                       | 800777    | •Key, woodruff, 5/16" x 1" . . . . .                                    | 1         |                 |
| 31                                       | 800778    | •Nut, 1-20 . . . . .                                                    | 1         |                 |
|                                          | 891910    | •Kit, service . . . . . As Req'd                                        |           | Not Illustrated |
| 32                                       | 892381    | Motor, hydraulic . . . . .                                              | 1         |                 |
| 30                                       | 800777    | •Key, woodruff, 5/16" x 1" . . . . .                                    | 1         |                 |
| 31                                       | 800778    | •Nut, 1-20 . . . . .                                                    | 1         |                 |
|                                          | 891910    | •Kit, service . . . . . As Req'd                                        |           | Not Illustrated |
| 33                                       | 894103    | Pump, hydraulic . . . . .                                               | 1         |                 |
|                                          | 547731    | •Kit, service . . . . . As Req'd                                        |           | Not Illustrated |
| 34                                       | 894250    | Line, hydraulic, bottom (left) . . . . .                                | 1         |                 |
| 35                                       | 894251    | Line, hydraulic, top (top) . . . . .                                    | 1         |                 |
| 36                                       | 894252    | Line, hydraulic, bottom (right) . . . . .                               | 1         |                 |
| 37                                       | 894253    | Line, hydraulic, top (right) . . . . .                                  | 1         |                 |
| 38                                       | 800770    | Screw, 1/2-13 x 1 3/4" . . . . .                                        | 2         |                 |
| 39                                       | 120166    | Lockwasher, 1/2" . . . . .                                              | 2         |                 |
| <b>For O-Rings, See Chart on Page 49</b> |           |                                                                         |           |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 11.6 HYDRAULIC POWER STEERING CIRCUIT

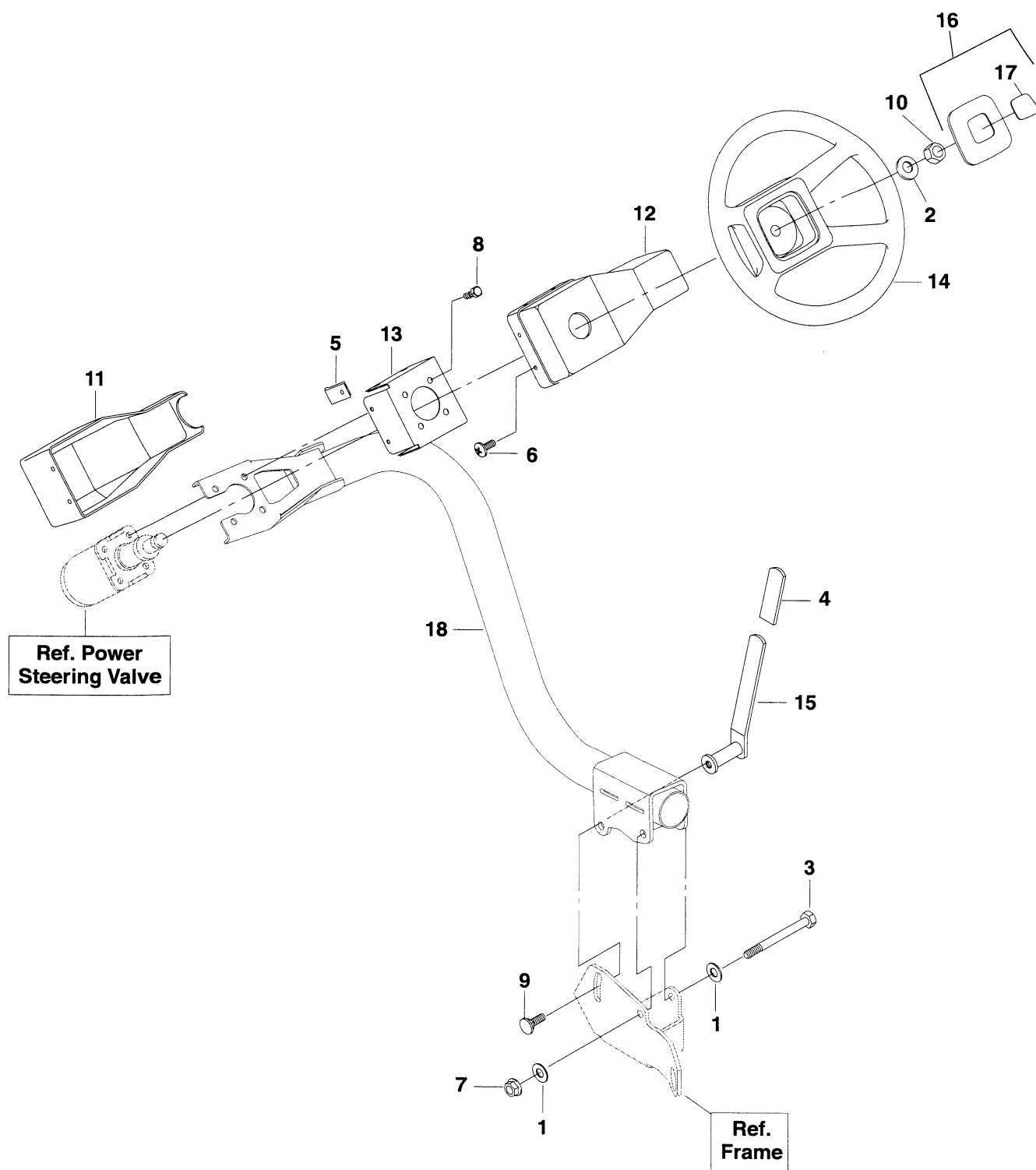


# HYDRAULIC POWER STEERING CIRCUIT 11.6

| Ref. No.                          | Part No. | Description                                                            | No. Req'd | Notes           |
|-----------------------------------|----------|------------------------------------------------------------------------|-----------|-----------------|
| 1                                 | 120166   | Lockwasher, 1/2" . . . . .                                             | 1         | Not Illustrated |
| 2                                 | 131981   | Screw, 1/2-13 x 2 1/2" . . . . .                                       | 1         |                 |
| 3                                 | 306328   | Pin, cotter, 3/32" x 3/4" . . . . .                                    | 1         |                 |
| 4                                 | 308091   | Washer, 1/2" . . . . .                                                 | 2         |                 |
| 5                                 | 308332   | Nut, 1/2-13 . . . . .                                                  | 1         |                 |
| 6                                 | 320107   | Tie, cable, 7 1/2" (191mm) . . . . .                                   | 3         |                 |
| 7                                 | 524038   | Plug . . . . .                                                         | 1         |                 |
| 8                                 | 524100   | Adaptor, elbow, 45° . . . . .                                          | 1         |                 |
| 9                                 | 800490   | Nut, M14 x 1.5, grade 8 . . . . .                                      | 1         |                 |
| 10                                | 800800   | Washer, 1/2" i.d., 1 1/2" o.d. . . . .                                 | 1         |                 |
| 11                                | 831877   | Bushing . . . . .                                                      | 1         |                 |
| 12                                | 838035   | Adaptor, elbow, 90° . . . . .                                          | 2         |                 |
| 13                                | 838036   | Adaptor, straight . . . . .                                            | 3         |                 |
| 14                                | 894001   | Gear, power steering . . . . .                                         | 1         |                 |
|                                   | 892850   | Kit, service . . . . .                                                 | As Req'd  |                 |
| 15                                | 839003   | Fitting, adaptor . . . . .                                             | 1         |                 |
| 16                                | 839831   | Adaptor, elbow, 90° . . . . .                                          | 2         |                 |
| 17                                | 839841   | Hose, hydraulic, 1/4" i.d. x 70"<br>(6 mm i.d. x 1.8 M) . . . . .      | 1         |                 |
| 18                                | 839842   | Hose, hydraulic, 1/4" i.d. x 77"<br>(6 mm i.d. x 1.96 M) . . . . .     | 1         |                 |
| 19                                | 839846   | Fitting, adaptor, 45° . . . . .                                        | 1         |                 |
| 20                                | 840192   | Sleeve, nylon 3" x 16"<br>(76 mm x 406 mm) . . . . .                   | 1         |                 |
| 21                                | 841676   | Hose, hydraulic, 1/4" i.d. x 30"<br>(6 mm i.d. x 762 mm) . . . . .     | 1         |                 |
| 22                                | 842080   | Elbow, 90°, O-ring . . . . .                                           | 1         |                 |
| 23                                | 843912   | Hose, hydraulic, 3/8" i.d. x 22"<br>(9.5 mm i.d. x 559 mm) . . . . .   | 1         |                 |
| 24                                | 843918   | Hose, hydraulic, 1/4" i.d. x 49"<br>(6 mm i.d. x 1.24 M) . . . . .     | 1         |                 |
| 25                                | 843919   | Hose, hydraulic, 1/4" i.d. x 72 1/2"<br>(6 mm i.d. x 1.84 M) . . . . . | 1         |                 |
| 26                                | 843920   | Hose, hydraulic, 1/4" i.d. x 60 5/8"<br>(6 mm i.d. x 1.54 M) . . . . . | 1         |                 |
| 27                                | 844069   | Tee, Bhead . . . . .                                                   | 1         |                 |
| 28                                | 844086   | Sleeve, nylon 1 7/8" x 12"<br>(48 mm x 305 mm) . . . . .               | 2         |                 |
| 29                                | 887692   | End, tie rod . . . . .                                                 | 1         |                 |
| 30                                | 548224   | •Fitting, lubrication, 1/4-28 . . . . .                                | 1         |                 |
| 31                                | 892272   | Cylinder, hydraulic . . . . .                                          | 1         |                 |
|                                   | 888378   | •Kit, service . . . . .                                                | As Req'd  |                 |
| For O-Rings, See Chart on Page 49 |          |                                                                        |           | Not Illustrated |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 12.1 CONTROL ARM

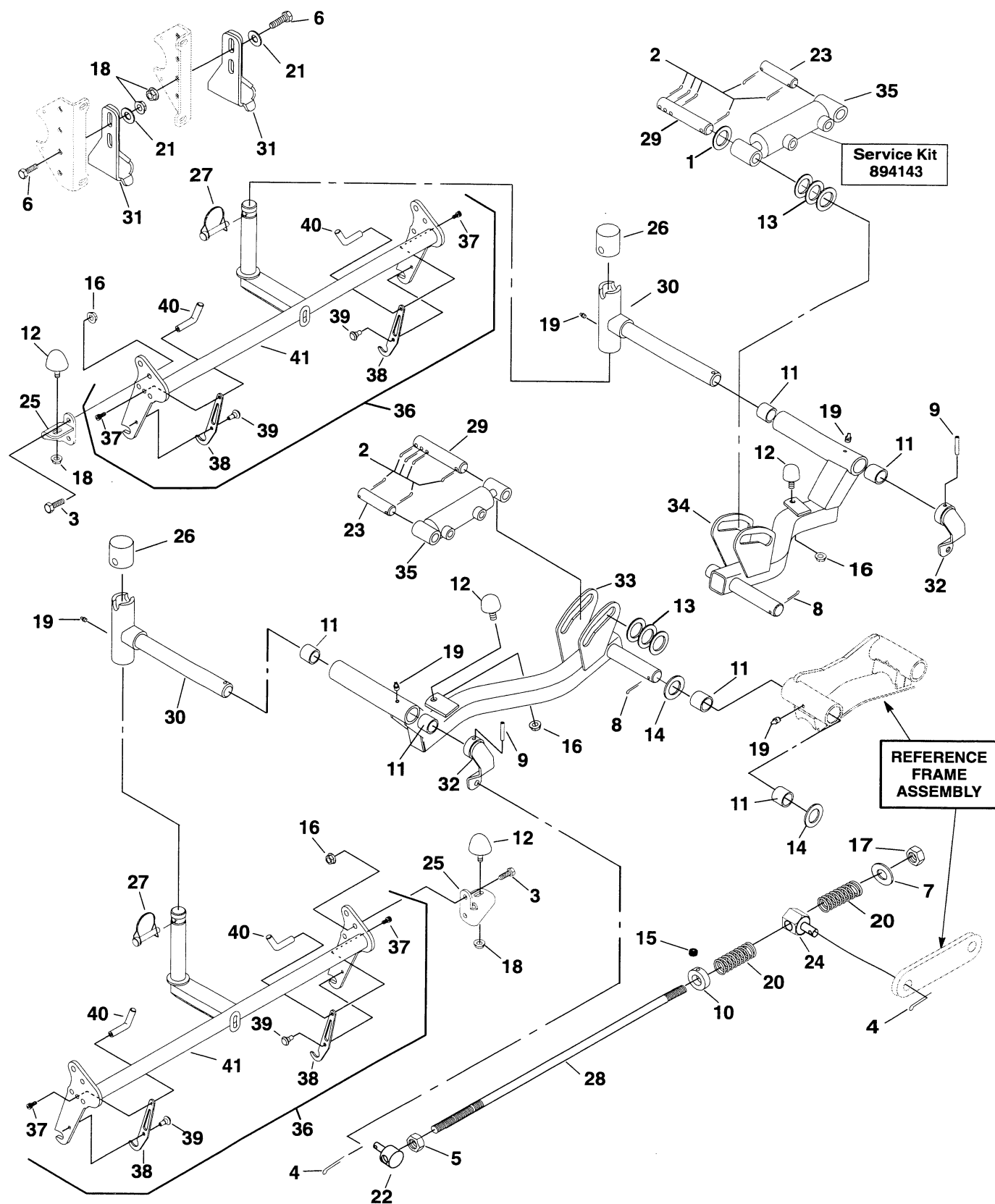


# CONTROL ARM 12.1

| Ref. No. | Part No. | Description                           | No. Req'd | Notes |
|----------|----------|---------------------------------------|-----------|-------|
| 1        | 308091   | Washer, 1/2" .....                    | 2         |       |
| 2        | 311496   | Washer, 5/8" .....                    | 1         |       |
| 3        | 548941   | Screw, 1/2-13 x 4 1/2" .....          | 1         |       |
| 4        | 521144   | Cover, handle .....                   | 1         |       |
| 5        | 800279   | Nut, speed, 1/4-20 .....              | 8         |       |
| 6        | 800582   | Screw, 1/4-20 x 3/4" P.T.H. ....      | 8         |       |
| 7        | 800700   | Nut, crownlock flange, 1/2-13 .....   | 1         |       |
| 8        | 800714   | Screw, flange, 3/8-16 x 1 1/4" .....  | 2         |       |
| 9        | 800845   | Bolt, carriage, 1/2-13 x 1 1/2" ..... | 1         |       |
| 10       | 800886   | Nut, M16, grade 8 .....               | 1         |       |
| 11       | 839721   | Cover, steering unit, lower .....     | 1         |       |
| 12       | 839722   | Cover, steering unit, top .....       | 1         |       |
| 13       | 839860   | Bracket, mounting cover .....         | 1         |       |
| 14       | 892228   | Wheel, steering, 14" (356 mm) .....   | 1         |       |
| 15       | 892435   | Handle .....                          | 1         |       |
| 16       | 892486   | Cover, steering wheel w/decal .....   | 1         |       |
| 17       | 839862   | •Decal, Ransomes .....                | 1         |       |
| 18       | 893860   | Arm, steering .....                   | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

### **13.1 LIFT ASSEMBLY – FRONT CUTTING HEADS**

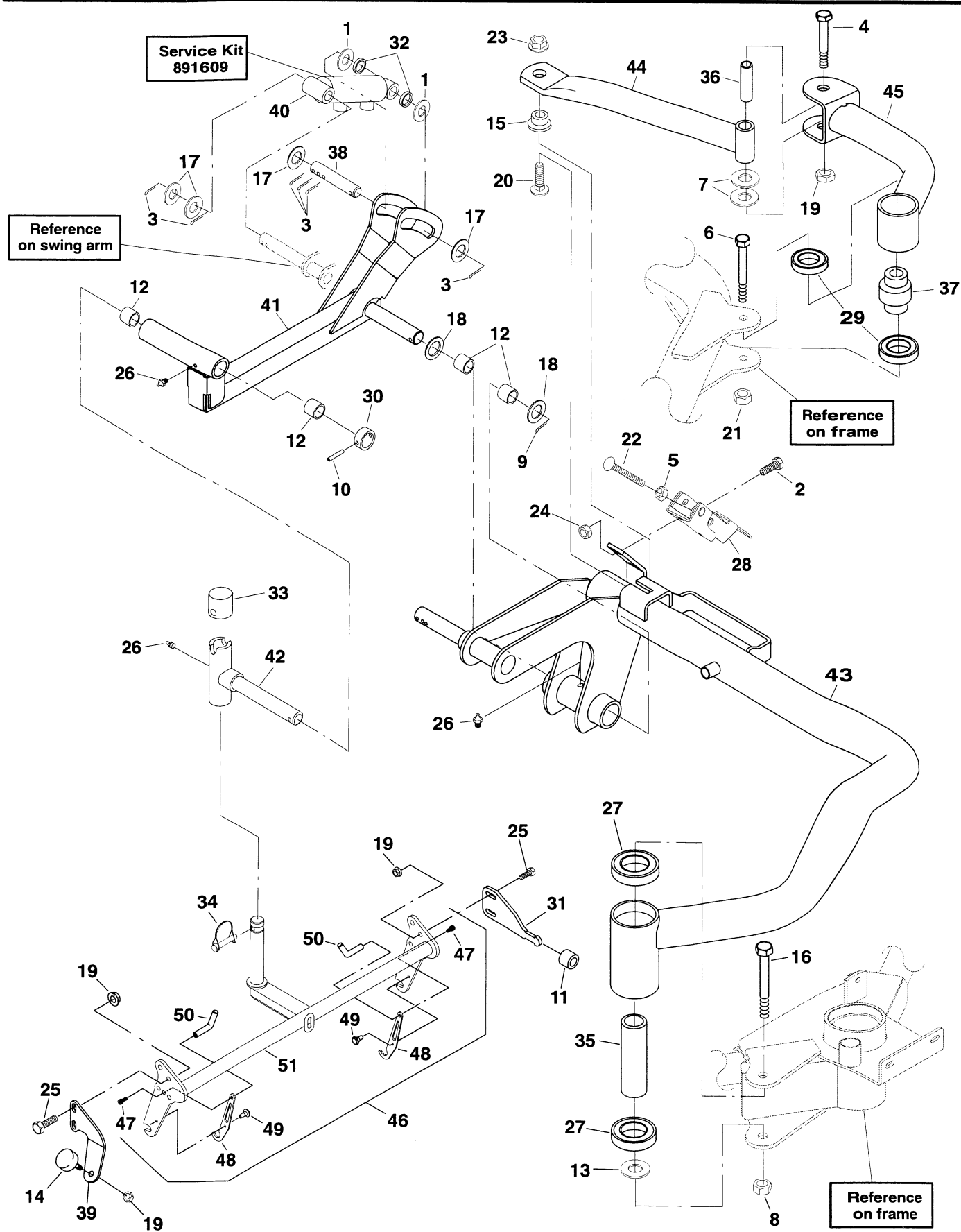


# LIFT ASSEMBLY – FRONT CUTTING HEADS 13.1

| Ref. No. | Part No. | Description                                 | No. Req'd | Notes |
|----------|----------|---------------------------------------------|-----------|-------|
| 1        | 103960   | Washer, 3/4" ID 1 1/2" OD .....             | 1         |       |
| 2        | 304636   | Pin, cotter 1/8" x 1 1/8" .....             | 12        |       |
| 3        | 306322   | Screw, 5/16-18 x 7/8" .....                 | 4         |       |
| 4        | 306328   | Pin, cotter, 3/32" x 3/4" .....             | 4         |       |
| 5        | 306388   | Nut, jam, 3/8-24 .....                      | 2         |       |
| 6        | 306435   | Screw, 5/16-18 x 1 1/4" .....               | 3         |       |
| 7        | 306981   | Washer, 3/8" .....                          | 2         |       |
| 8        | 316930   | Pin, cotter, 3/16" x 1 3/4" .....           | 2         |       |
| 9        | 316945   | Pin, spirol, 1/4" x 1 1/4" .....            | 2         |       |
| 10       | 48428    | Collar, set, 3/8" .....                     | 2         |       |
| 11       | 520528   | Bushing .....                               | 8         |       |
| 12       | 523126   | Bumper, rubber .....                        | 4         |       |
| 13       | 548168   | Washer, 5/8" ID 1 1/4" OD .....             | 8         |       |
| 14       | 548173   | Washer, 1" ID 1 3/4" OD .....               | 4         |       |
| 15       | 548205   | Screw, 1/4-20 x 1/4" .....                  | 2         |       |
| 16       | 548911   | Nut, flangelock, 5/16-18 .....              | 6         |       |
| 17       | 800531   | Nut, crownlock, 3/8-24 .....                | 2         |       |
| 18       | 800697   | Nut, crownlock flange, 5/16-18 .....        | 5         |       |
| 19       | 807439   | Fitting, lubrication, 1/4-28 .....          | 6         |       |
| 20       | 814499   | Spring, compression .....                   | 4         |       |
| 21       | 825128   | Washer, 5/16" .....                         | 3         |       |
| 22       | 839181   | Pin, rod connecting, threaded .....         | 2         |       |
| 23       | 840507   | Pin, lift cylinder pivot .....              | 2         |       |
| 24       | 841203   | Pin, rod connecting .....                   | 2         |       |
| 25       | 841466   | Bracket, bumper-front .....                 | 2         |       |
| 26       | 841741   | Cap, pivot shaft .....                      | 2         |       |
| 27       | 841744   | Pin, lynch, 3/8" x 2" .....                 | 2         |       |
| 28       | 842471   | Rod, Threaded, 3/8-24 .....                 | 2         |       |
| 29       | 843821   | Pin, cylinder pivot .....                   | 2         |       |
| 30       | 892175   | Pivot, front head steering .....            | 2         |       |
| 31       | 892794   | Bracket, bumper .....                       | 2         |       |
| 32       | 893787   | Arm .....                                   | 2         |       |
| 33       | 893857   | Arm, LH front .....                         | 1         |       |
| 34       | 893858   | Arm, RH front .....                         | 1         |       |
| 35       | 894083   | Cylinder, hydraulic lift .....              | 2         |       |
|          | 894143   | •Kit, service .....                         | As Req'd  |       |
| 36       | 897174   | Frame assembly, head .....                  | 2         |       |
| 37       | 800864   | •Screw, hex socket head #10-24 x 1/2" ..... | 4         |       |
| 38       | 842401   | •Latch .....                                | 4         |       |
| 39       | 842402   | •Rivet .....                                | 4         |       |
| 40       | 842403   | •Handle .....                               | 4         |       |
| 41       | 893739   | •Frame .....                                | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 13.2 LIFT ASSEMBLY – REAR CUTTING HEAD

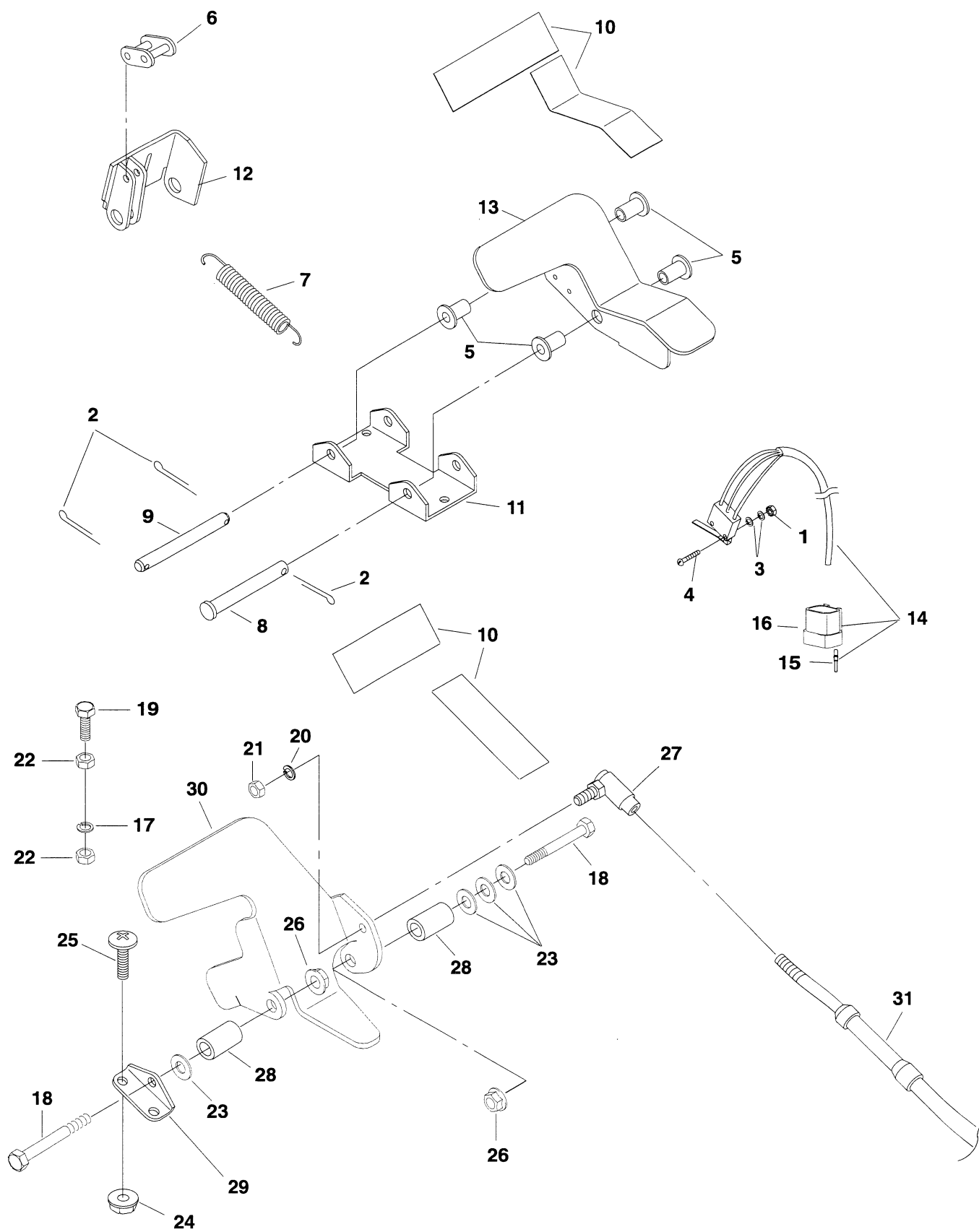


# LIFT ASSEMBLY – REAR CUTTING HEAD 13.2

| Ref. No. | Part No. | Description                           | No. Req'd | Notes           |
|----------|----------|---------------------------------------|-----------|-----------------|
| 1        | 103960   | Washer, 3/4" ID 1 1/2" OD             | 2         | Not Illustrated |
| 2        | 300646   | Screw, 1/4–20 x 3/4"                  | 2         |                 |
| 3        | 304636   | Pin, cotter, 1/8" x 1 1/8"            | 6         |                 |
| 4        | 306464   | Screw, 5/16–18 x 2 1/2"               | 1         |                 |
| 5        | 306932   | Nut, 5/16–18                          | 1         |                 |
| 6        | 307776   | Screw, 3/8–16 x 2 3/4"                | 1         |                 |
| 7        | 308091   | Washer, 1/2" ID 1" OD                 | 2         |                 |
| 8        | 311385   | Nut, 5/8–11                           | 1         |                 |
| 9        | 316930   | Pin, cotter, 3/16" x 1 3/4"           | 1         |                 |
| 10       | 316945   | Pin, spirol, 1/4" x 1 1/4"            | 1         |                 |
| 11       | 517163   | Spacer, rubber                        | 1         |                 |
| 12       | 520528   | Bushing                               | 4         |                 |
| 13       | 522840   | Washer, thrust                        | 1         |                 |
| 14       | 523126   | Bumper, rubber                        | 1         |                 |
| 15       | 524215   | Bushing, turf guard                   | 1         |                 |
| 16       | 548043   | Screw, 5/8–11 x 5 1/2"                | 1         |                 |
| 17       | 548168   | Washer, 5/8" ID 1 1/4" OD             | 4         |                 |
| 18       | 548173   | Washer, 1" ID 1 3/4" OD               | 2         |                 |
| 19       | 548911   | Nut, flangelock, 5/16–18              | 6         |                 |
| 20       | 800071   | Bolt, carriage, 3/8–16 x 1"           | 1         |                 |
| 21       | 800292   | Nut, centerlock 3/8–16                | 1         |                 |
| 22       | 800352   | Bolt, carriage, 5/16–18 x 3"          | 1         |                 |
| 23       | 800698   | Nut, crownlock, 3/8–16                | 1         |                 |
| 24       | 800706   | Nut, crownlock, 1/4–20                | 2         |                 |
| 25       | 800794   | Screw, 5/16–18 x 3/4"                 | 4         |                 |
| 26       | 807439   | Fitting, lubrication, 1/4–28          | 3         |                 |
| 27       | 832499   | Bearing, ball, 1" ID 2" OD            | 2         |                 |
| 28       | 838476   | Latch, draw                           | 1         |                 |
| 29       | 839063   | Bearing, ball, 5/8" ID 1 3/8" OD      | 2         |                 |
| 30       | 839410   | Bushing, spring stop                  | 1         |                 |
| 31       | 840085   | Stop, reel                            | 1         |                 |
| 32       | 840344   | Bushing                               | 2         |                 |
| 33       | 841741   | Cap                                   | 1         |                 |
| 34       | 841744   | Pin, lynch, 3/8 x 2"                  | 1         |                 |
| 35       | 843181   | Spacer, bearing                       | 1         |                 |
| 36       | 843185   | Bushing, pivot                        | 1         |                 |
| 37       | 843195   | Spacer, bearing                       | 1         |                 |
| 38       | 843821   | Pin, cylinder pivot                   | 1         |                 |
| 39       | 869118   | Mount, rear frame stop                | 1         |                 |
| 40       | 893495   | Cylinder, hydraulic                   | 1         |                 |
|          | 891609   | •Kit, service                         | As Req'd  |                 |
| 41       | 893856   | Arm, rear                             | 1         |                 |
| 42       | 893859   | Pivot, rear head                      | 1         |                 |
| 43       | 894140   | Arm, swing                            | 1         |                 |
| 44       | 894141   | Link, arm                             | 1         |                 |
| 45       | 894164   | Arm, pivot                            | 1         |                 |
| 46       | 897174   | Frame assembly, head                  | 1         |                 |
| 47       | 800864   | •Screw, hex socket head #10-24 x 1/2" | 2         |                 |
| 48       | 842401   | •Latch                                | 2         |                 |
| 49       | 842402   | •Rivet                                | 2         |                 |
| 50       | 842403   | •Handle                               | 2         |                 |
| 51       | 893739   | •Frame, head steering                 | 1         |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 14.1 MOW/RAISE & SPEED CONTROL PEDALS

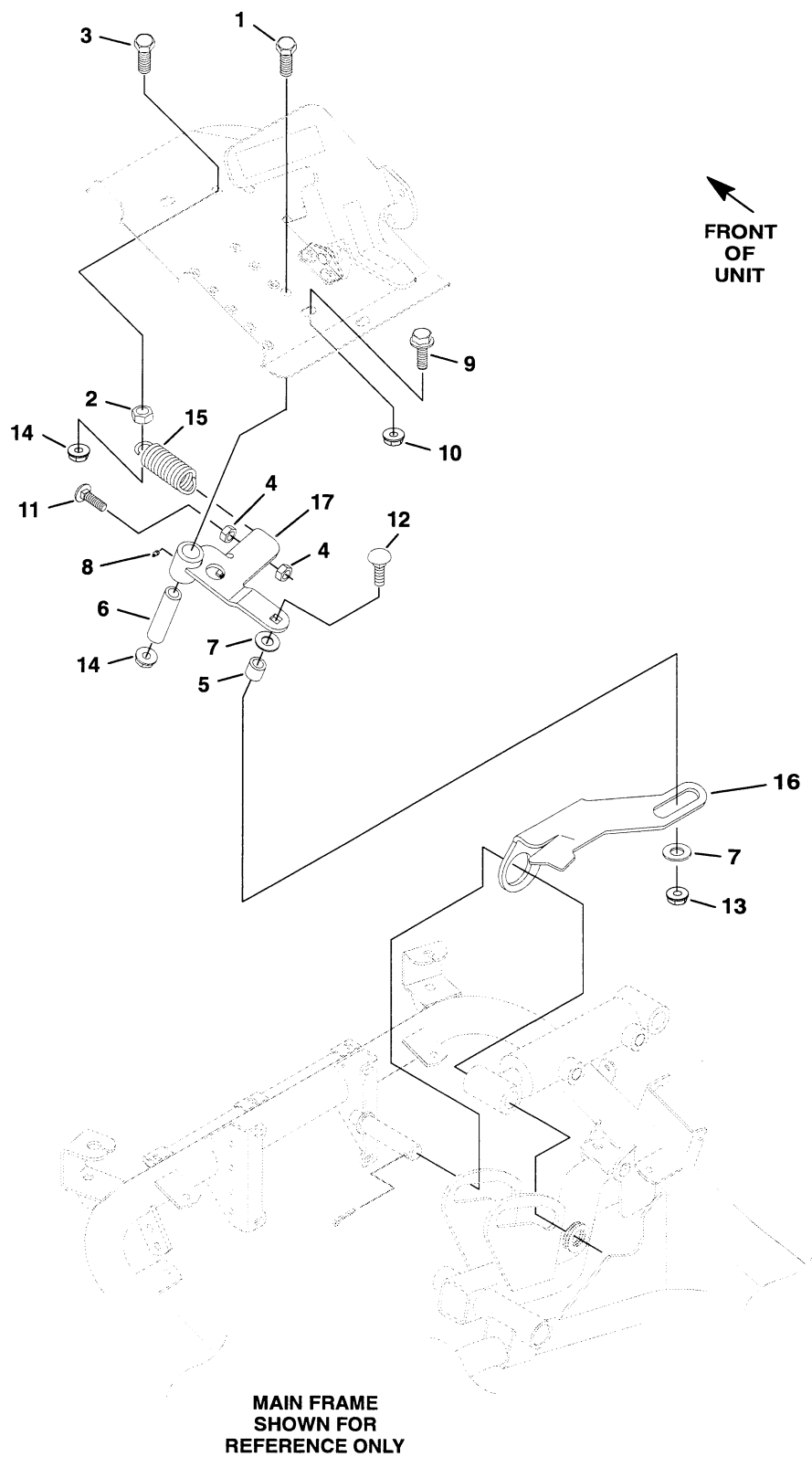


# MOW/RAISE & SPEED CONTROL PEDALS 14.1

| Ref. No. | Part No. | Description                         | No. Req'd | Notes |
|----------|----------|-------------------------------------|-----------|-------|
| 1        | 302437   | Nut, #6-32 .....                    | 2         |       |
| 2        | 306328   | Pin, cotter, 3/32" x 3/4" .....     | 3         |       |
| 3        | 306990   | Lockwasher, #6 .....                | 4         |       |
| 4        | 316056   | Screw, #6-32 x 3/4" .....           | 2         |       |
| 5        | 522009   | Bearing, nylon .....                | 4         |       |
| 6        | 522123   | Link, #50 connector .....           | 1         |       |
| 7        | 818092   | Spring .....                        | 1         |       |
| 8        | 826633   | Pin, clevis, 5/16" x 2 3/8" .....   | 1         |       |
| 9        | 833577   | Pin, pivot .....                    | 1         |       |
| 10       | 840003   | Tread, control pedal .....          | 2         |       |
| 11       | 840255   | Frame, pedal .....                  | 1         |       |
| 12       | 892662   | Link .....                          | 1         |       |
| 13       | 892663   | Pedal, mow .....                    | 1         |       |
| 14       | 894522   | Switch .....                        | 1         |       |
| 15       | 839918   | •Receptacle, 2-wire .....           | 1         |       |
| 16       | 839935   | •Lock, 2-wire receptacle .....      | 1         |       |
| 17       | 120177   | Lockwasher, 3/8" .....              | 3         |       |
| 18       | 302288   | Screw, 1/4-20 x 1" .....            | 2         |       |
| 19       | 302600   | Screw, 3/8-16 x 1 1/2" .....        | 1         |       |
| 20       | 306396   | Lockwasher, 1/4" .....              | 2         |       |
| 21       | 306397   | Nut, 1/4-28 .....                   | 2         |       |
| 22       | 306562   | Nut, 3/8-16 .....                   | 4         |       |
| 23       | 306981   | Washer, 3/8" .....                  | 4         |       |
| 24       | 548910   | Nut, flangelock, 1/4-20 .....       | 2         |       |
| 25       | 800019   | Screw, 1/4-20 x 1/2", P.T.H. ....   | 2         |       |
| 26       | 800706   | Nut, crownlock flange, 1/4-20 ..... | 2         |       |
| 27       | 831518   | Ball Joint .....                    | 2         |       |
| 28       | 833273   | Bushing .....                       | 2         |       |
| 29       | 839388   | Bracket, pivot mounting .....       | 1         |       |
| 30       | 841476   | Pedal, direction control .....      | 1         |       |
| 31       | 842999   | Cable, direction control .....      | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 15.1 MOW SPEED CONTROL

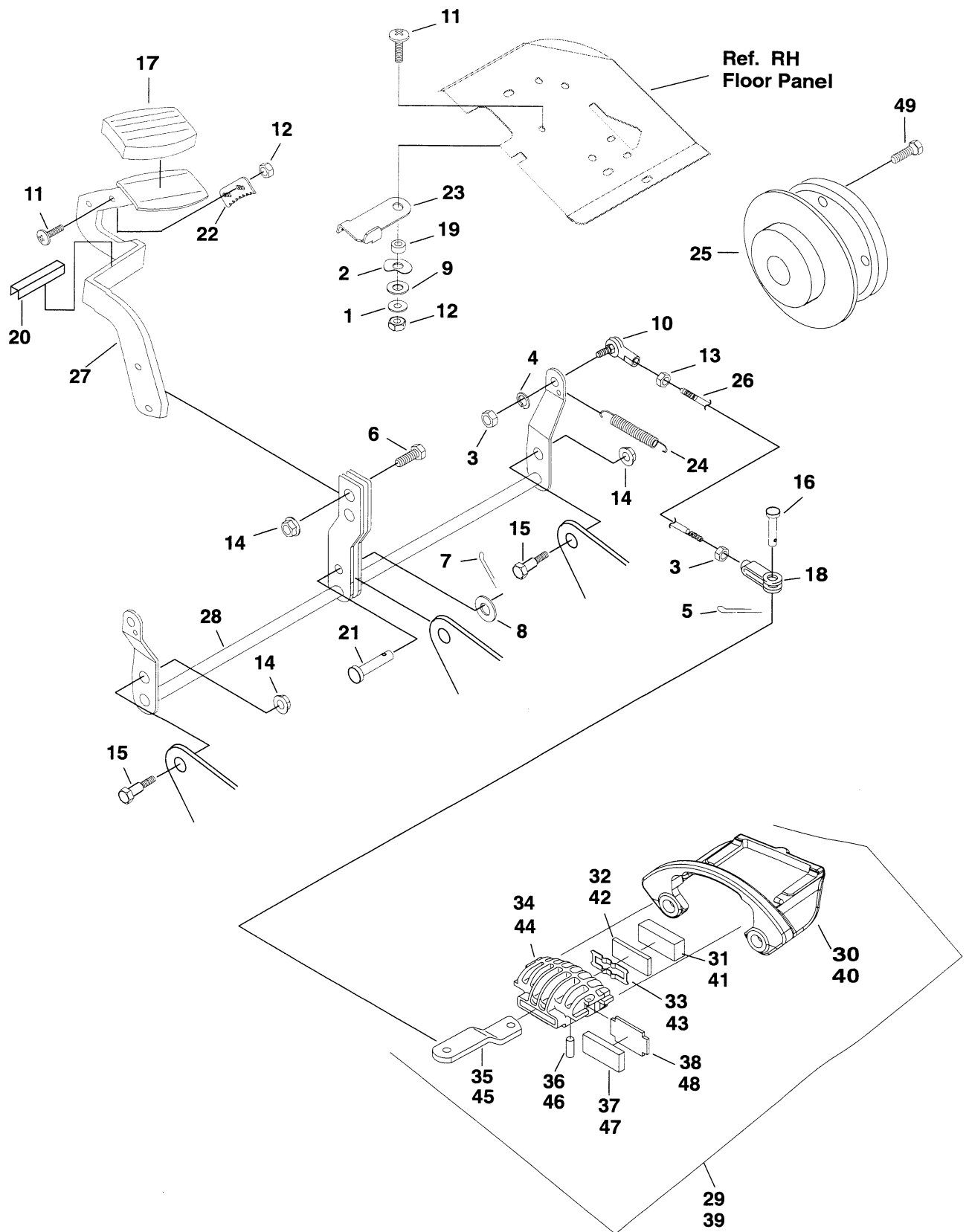


# MOW SPEED CONTROL 15.1

| Ref. No. | Part No. | Description                           | No. Req'd | Notes |
|----------|----------|---------------------------------------|-----------|-------|
| 1        | 131794   | Screw, 3/8-16 x 2 .....               | 1         |       |
| 2        | 306562   | Nut, 3/8-16 .....                     | 1         |       |
| 3        | 306835   | Screw, 3/8-16 x 1 1/4" .....          | 1         |       |
| 4        | 306932   | Nut, 3/8-16 .....                     | 2         |       |
| 5        | 515268   | Bushing .....                         | 1         |       |
| 6        | 523221   | Spacer .....                          | 1         |       |
| 7        | 548159   | Washer, 5/16 x 1 1/4 .....            | 2         |       |
| 8        | 548225   | Fitting, lube 1/4-28, 45° .....       | 1         |       |
| 9        | 548604   | Screw, flangelock 5/16-18 x 3/4 ..... | 1         |       |
| 10       | 548911   | Nut, 5/16-18 flangelock .....         | 1         |       |
| 11       | 800062   | Bolt, carriage 5/16-18 x 1 1/4 .....  | 1         |       |
| 12       | 800085   | Bolt, carriage 5/16-18 x 1 .....      | 1         |       |
| 13       | 800697   | Nut, 5/16-18 crownlock .....          | 1         |       |
| 14       | 800698   | Nut, 3/8-16 crownlock .....           | 2         |       |
| 15       | 829500   | Spring, extension .....               | 1         |       |
| 16       | 841487   | Angle, lockout link .....             | 1         |       |
| 17       | 893359   | Bellcrank, lockout assembly .....     | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 16.1 BRAKE PEDAL

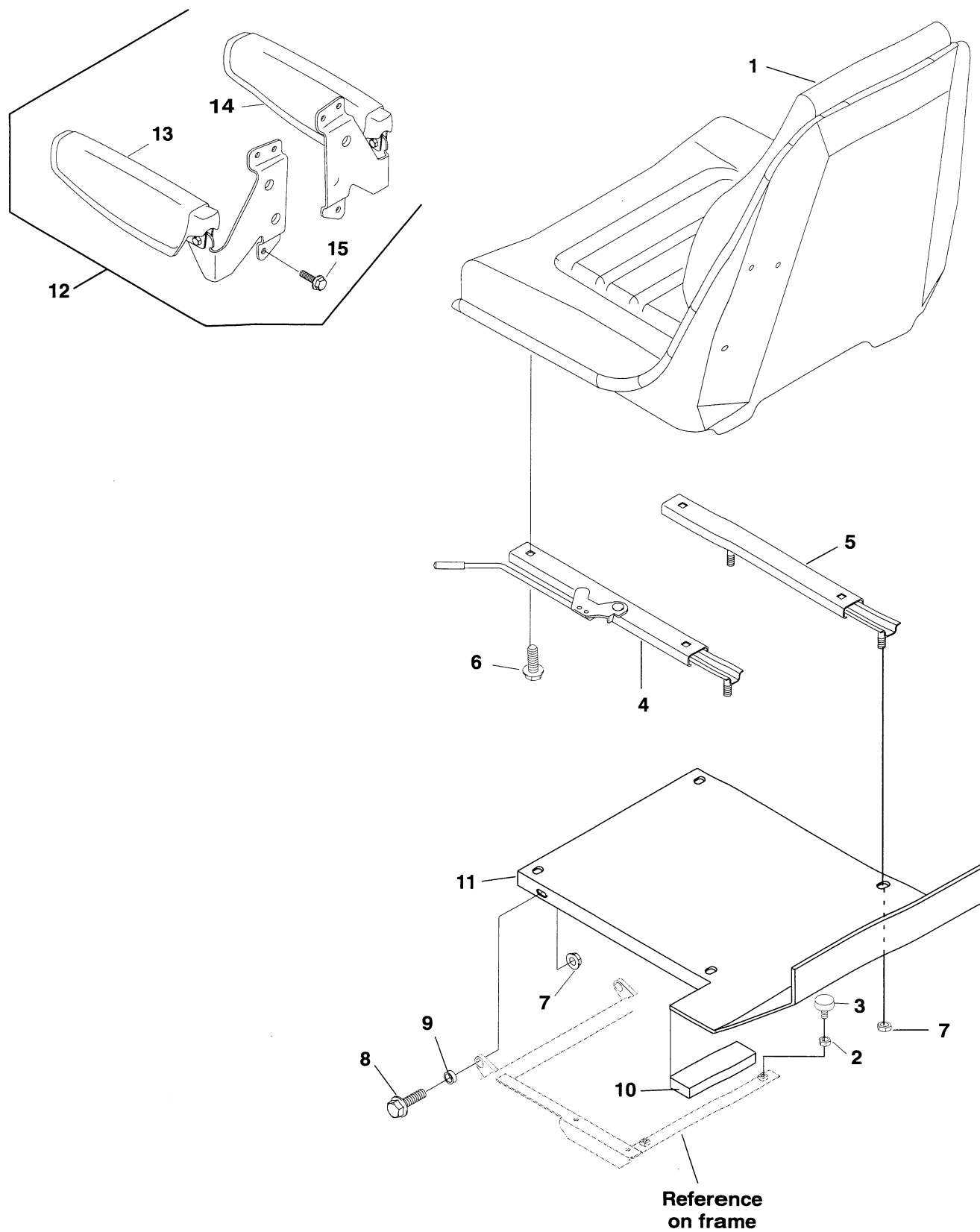


# BRAKE PEDAL 16.1

| Ref. No. | Part No.   | Description                              | No. Req'd | Notes |
|----------|------------|------------------------------------------|-----------|-------|
| 1        | 103867     | Washer, 5/16" . . . . .                  | 1         |       |
| 2        | 111840     | Washer, wavy 1/2" . . . . .              | 1         |       |
| 3        | 306320     | Nut, 5/16-24 . . . . .                   | 4         |       |
| 4        | 306325     | Lockwasher, 5/16" . . . . .              | 2         |       |
| 5        | 306328     | Pin, cotter, 3/32" x 3/4" . . . . .      | 2         |       |
| 6        | 306435     | Screw, 5/16-18 x 1 1/4" . . . . .        | 2         |       |
| 7        | 306956     | Pin, cotter, 1/8" x 3/4" . . . . .       | 1         |       |
| 8        | 306981     | Washer, 3/8" . . . . .                   | 1         |       |
| 9        | 308091     | Washer, 1/2" . . . . .                   | 1         |       |
| 10       | 523253     | End . . . . .                            | 2         |       |
| 11       | 800177     | Screw, 5/16-18 x 3/4" . . . . .          | 3         |       |
| 12       | 800290     | Nut, crownlock flange, 5/16-18 . . . . . | 3         |       |
| 13       | 800543     | Nut, left hand thread 5/16-24 . . . . .  | 2         |       |
| 14       | 800698     | Nut, crownlock flange, 3/8-16 . . . . .  | 4         |       |
| 15       | 800812     | Bolt, shoulder, 3/8-16 x 1" . . . . .    | 2         |       |
| 16       | 806703     | Pin, clevis, 5/16 x 1" . . . . .         | 2         |       |
| 17       | 810152     | Cover, foot pedal . . . . .              | 1         |       |
| 18       | 810722     | Yoke . . . . .                           | 2         |       |
| 19       | 823332     | Bushing . . . . .                        | 1         |       |
| 20       | 829726     | Trim, push on, 12' . . . . .             | As Req'd  |       |
| 21       | 806703     | Pin, clevis . . . . .                    | 1         |       |
| 22       | 840420     | Plate, latch . . . . .                   | 1         |       |
| 23       | 840421     | Pawl, lock . . . . .                     | 1         |       |
| 24       | 842598     | Spring, extension . . . . .              | 1         |       |
| 25       | 843160     | Hub, wheel & disc . . . . .              | 2         |       |
| 26       | 843252     | Rod, threaded 5/16-24 . . . . .          | 2         |       |
| 27       | 894165     | Pedal, brake . . . . .                   | 1         |       |
| 28       | 894166     | Shaft, brake arm . . . . .               | 1         |       |
| 29       | 2188147    | Brake, complete, LEFT . . . . .          | 1         |       |
| 30       | 2188147-01 | •Bracket . . . . .                       | 1         |       |
| 31       | 2188147-02 | •Brake pad—cam . . . . .                 | 1         |       |
| 32       | 2188147-03 | •Pad—support . . . . .                   | 1         |       |
| 33       | 2188147-04 | •Spring—lever retainer . . . . .         | 1         |       |
| 34       | 2188147-05 | •Housing . . . . .                       | 1         |       |
| 35       | 2188147-06 | •Cam, LEFT . . . . .                     | 1         |       |
| 36       | 2188147-07 | •Pin, pivot . . . . .                    | 1         |       |
| 37       | 2188147-08 | •Brake pad—carrier side . . . . .        | 1         |       |
| 38       | 2188147-09 | •Pad—support . . . . .                   | 1         |       |
| 39       | 2188148    | Brake, complete, RIGHT . . . . .         | 1         |       |
| 40       | 2188147-01 | •Bracket . . . . .                       | 1         |       |
| 41       | 2188147-02 | •Brake pad—cam . . . . .                 | 1         |       |
| 42       | 2188147-03 | •Pad—support . . . . .                   | 1         |       |
| 43       | 2188147-04 | •Spring—lever retainer . . . . .         | 1         |       |
| 44       | 2188147-05 | •Housing . . . . .                       | 1         |       |
| 45       | 2188148-01 | •Cam, RIGHT . . . . .                    | 1         |       |
| 46       | 2188147-07 | •Pin, pivot . . . . .                    | 1         |       |
| 47       | 2188147-08 | •Brake pad—carrier side . . . . .        | 1         |       |
| 48       | 2188147-09 | •Pad—support . . . . .                   | 1         |       |
| 49       | 800928     | Bolt, wheel, 1/2-20, 60° . . . . .       | 8         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 17.1 SEAT

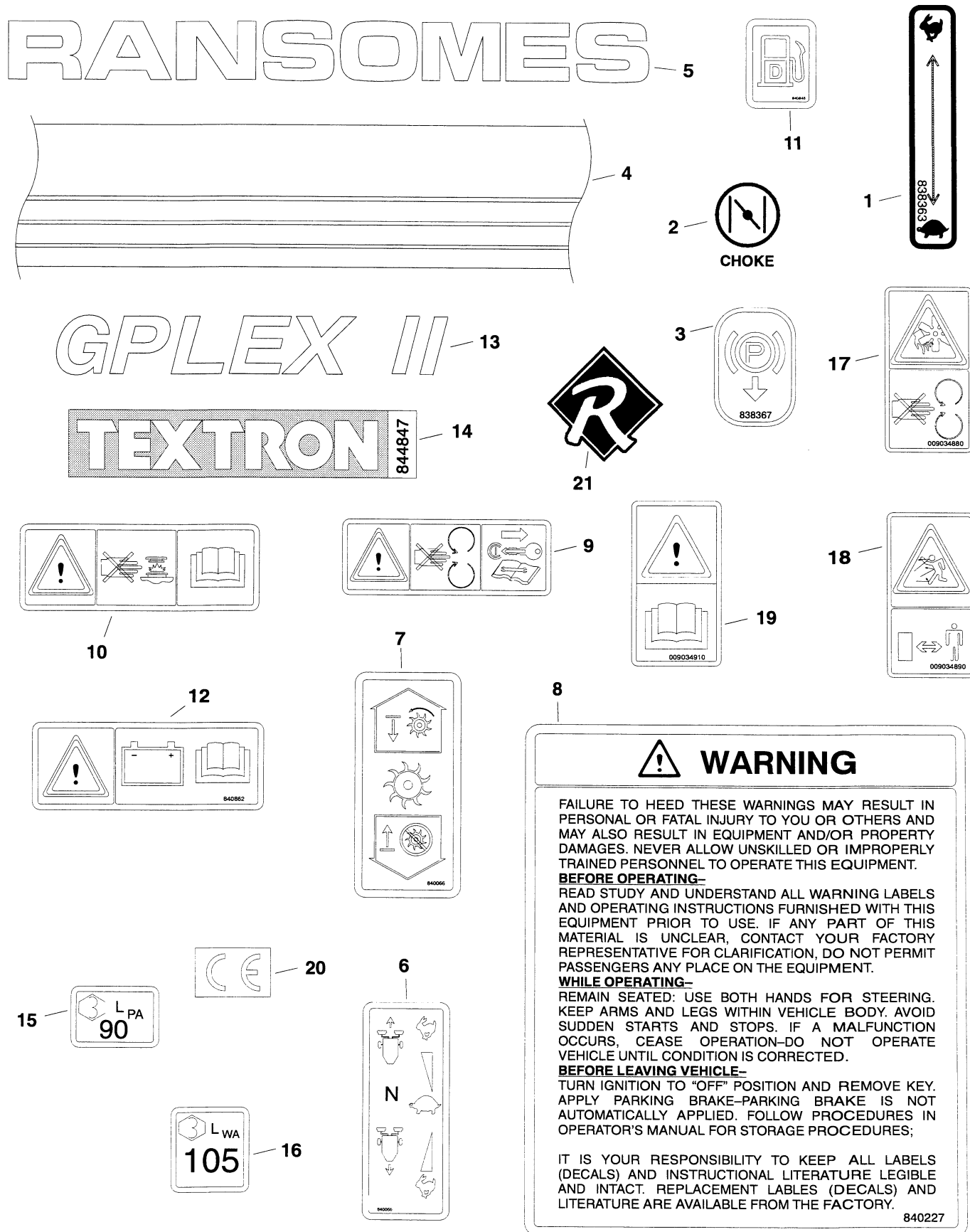


## SEAT 17.1

| Ref. No. | Part No. | Description                           | No. Req'd | Notes           |
|----------|----------|---------------------------------------|-----------|-----------------|
| 1        | 198057   | Seat .....                            | 1         |                 |
| 2        | 306932   | Nut, 5/16-18 .....                    | 2         |                 |
| 3        | 523224   | Bumper, rubber .....                  | 2         |                 |
| 4        | 523356   | Adjuster, seat w/handle (left) .....  | 1         |                 |
| 5        | 523357   | Adjuster seat (right) .....           | 1         |                 |
| 6        | 548604   | Screw, flnglck, 5/16-18 x 3/4" .....  | 4         |                 |
| 7        | 800697   | Nut, crownlock flange, 5/16-18 .....  | 6         |                 |
| 8        | 800710   | Screw, flange, 5/16-18 x 1" .....     | 2         |                 |
| 9        | 823332   | Bushing .....                         | 2         |                 |
| 10       | 833851   | Seal .....                            | 1         |                 |
| 11       | 894661   | Panel, seat base .....                | 1         |                 |
|          | 840227   | •Decal, warning, operators .....      | 1         | Not Illustrated |
|          | 840862   | •Decal, warning, battery .....        | 1         | Not Illustrated |
| 12       | 2196054  | Arm Rest Set (accessory) .....        | 1         |                 |
| 13       | 198059   | •Arm Rest (left) .....                | 1         |                 |
| 14       | 198066   | •Arm Rest (right) .....               | 1         |                 |
| 15       | 548604   | •Screw, flnglck, 5/16-18 x 3/4" ..... | 6         |                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 18.1 DECALS

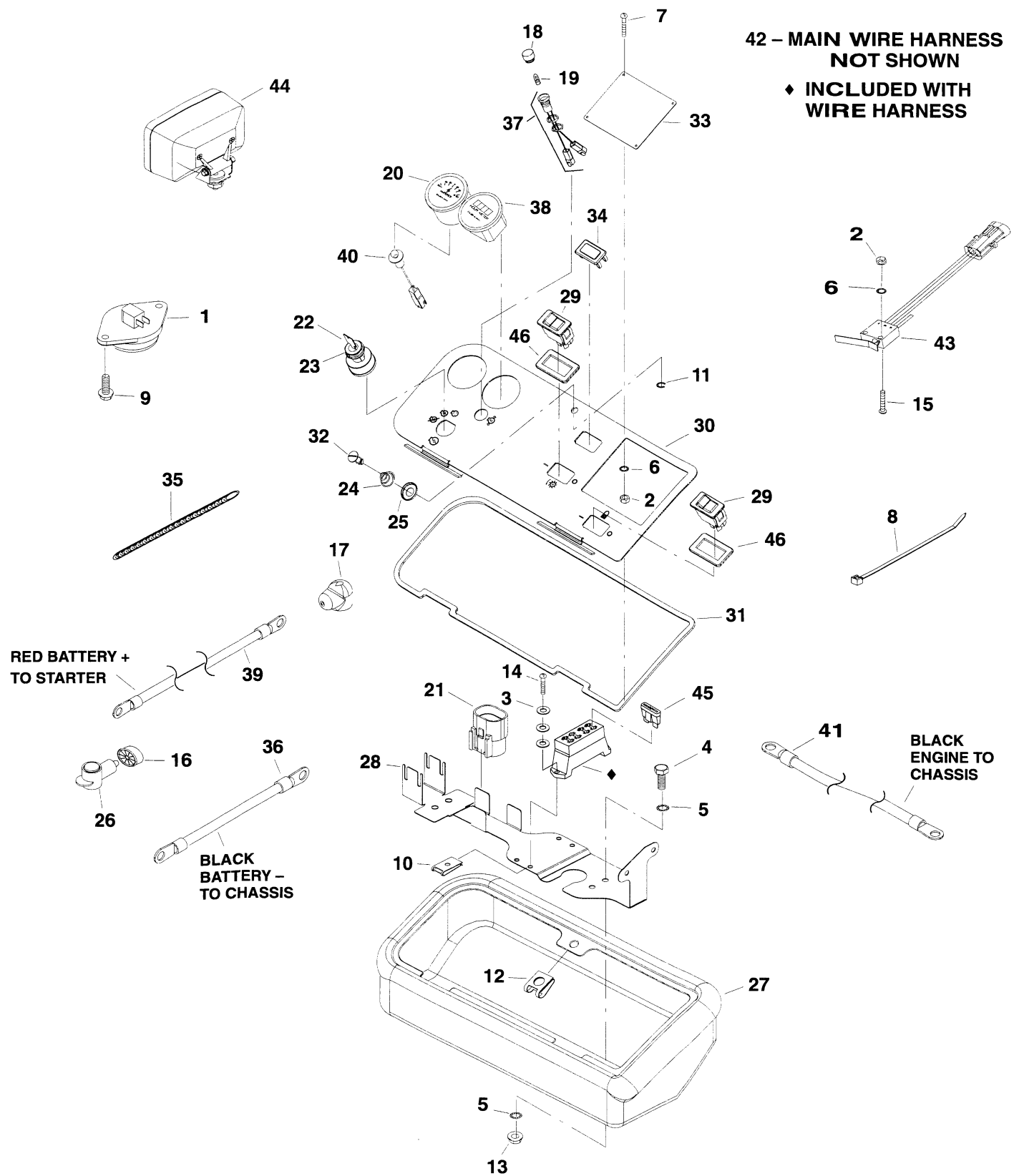


# DECALS 18.1

| Ref. No. | Part No.  | Description                                         | No. Req'd | Notes                |
|----------|-----------|-----------------------------------------------------|-----------|----------------------|
| 1        | 838363    | Decal, throttle .....                               | 1         |                      |
| 2        | 833364    | Decal, choke .....                                  | 1         |                      |
| 3        | 838367    | Decal, park brake .....                             | 1         |                      |
| 4        | 838494    | Decal, stripe, 2.38" x 20' (60 mm x 6.1 M) As Req'd |           |                      |
| 5        | 838588    | Decal, Ransomes, 1" (25 mm) .....                   | 2         |                      |
| 6        | 840065    | Decal, speed control .....                          | 1         |                      |
| 7        | 840066    | Decal, reel control .....                           | 1         |                      |
| 8        | 840227    | Decal, warning, vehicle operation .....             | 1         |                      |
| 9        | 840748    | Decal, warning, guards .....                        | 1         |                      |
| 10       | 840754    | Decal, warning, pressure .....                      | 1         |                      |
| 11       | 840845    | Decal, diesel fuel only .....                       | 1         |                      |
| 12       | 840862    | Decal, warning, battery .....                       | 1         |                      |
| 13       | 844110    | Decal, GPLEX II .....                               | 1         |                      |
| 14       | 844847    | Decal, TEXTRON .....                                | 2         |                      |
| 15       | 009034740 | Decal, sound pressure .....                         | 1         | European models only |
| 16       | 009034770 | Decal, sound power level .....                      | 1         | European models only |
| 17       | 009034880 | Decal, warning, fan .....                           | 1         |                      |
| 18       | 009034890 | Decal, caution, bystander .....                     | 1         | European models only |
| 19       | 009034910 | Decal, caution, read operators manual .....         | 1         | European models only |
| 20       | 009039290 | Decal, CE .....                                     | 1         | European models only |
| 21       | 2720122   | Decal, Diamond R .....                              | 1         |                      |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 19.1 CONTROL PANEL (GAS)

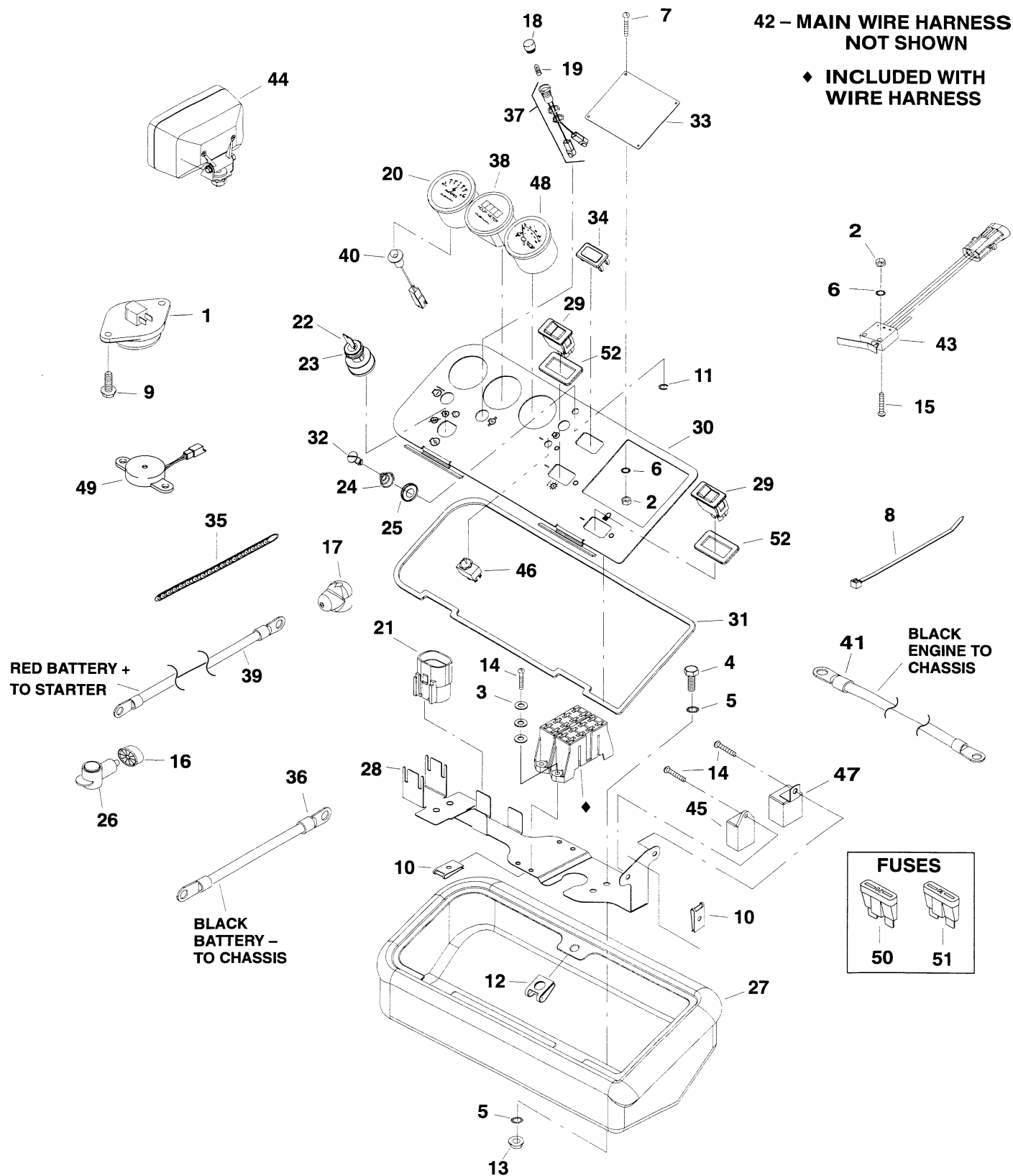


# CONTROL PANEL (GAS) 19.1

| Ref. No. | Part No.  | Description                                      | No. Req'd | Notes |
|----------|-----------|--------------------------------------------------|-----------|-------|
| 1        | 158135-01 | Switch, seat .....                               | 1         |       |
| 2        | 302437    | Nut, #6-32 .....                                 | 6         |       |
| 3        | 303952    | Washer, #10 .....                                | 6         |       |
| 4        | 306416    | Screw, 5/16-18 x 1" .....                        | 4         |       |
| 5        | 306799    | Lockwasher, 5/16" .....                          | 8         |       |
| 6        | 306990    | Lockwasher, #6 .....                             | 6         |       |
| 7        | 316056    | Screw, #6-32 x 3/4" .....                        | 4         |       |
| 8        | 320107    | Tie, cable 7 1/2" .....                          | 12        |       |
| 9        | 548045    | Screw, 1/4-20 x 3/4" .....                       | 2         |       |
| 10       | 548870    | Nut, speed 10-24 .....                           | 2         |       |
| 11       | 548871    | Retainer .....                                   | 1         |       |
| 12       | 548873    | Receptacle, stud .....                           | 1         |       |
| 13       | 548911    | Nut, flange lock 5/16-18 .....                   | 4         |       |
| 14       | 800296    | Screw, #10-24 x 3/4" .....                       | 2         |       |
| 15       | 800955    | Screw, #6-32 x 3/4" .....                        | 2         |       |
| 16       | 825917    | Grommet .....                                    | 2         |       |
| 17       | 825970    | Boot, terminal .....                             | 1         |       |
| 18       | 828470    | Lens, light .....                                | 1         |       |
| 19       | 828473    | Bulb, miniature (No. 1873) .....                 | 1         |       |
| 20       | 833280    | Gauge, ammeter .....                             | 1         |       |
| 21       | 835480    | Relay, 30 amp .....                              | 3         |       |
| 22       | 837295    | Switch, ignition .....                           | 1         |       |
| 23       | 837298    | •Spacer, .....                                   | 2         |       |
| 24       | 840354    | Spring, stud ejector .....                       | 1         |       |
| 25       | 840355    | Washer, cupped wear .....                        | 1         |       |
| 26       | 841895    | Cover, battery terminal .....                    | 1         |       |
| 27       | 843612    | Housing, instrument .....                        | 1         |       |
| 28       | 843987    | Bracket, instrument .....                        | 1         |       |
| 29       | 843990    | Switch, rocker .....                             | 2         |       |
| 30       | 844275    | Panel, instrument (GAS) .....                    | 1         |       |
| 31       | 844294    | Gasket, instrument panel .....                   | 1         |       |
| 32       | 844295    | Stud, quarter turn .....                         | 1         |       |
| 33       | 844326    | Cover, module .....                              | 1         |       |
| 34       | 844394    | Cover, switch .....                              | 1         |       |
| 35       | 844453    | Tubing, convoluted .....                         | 1         |       |
| 36       | 883078    | Wire, black ground chassis 4GA x 10" (254mm) ..  | 1         |       |
| 37       | 885999    | Socket, light .....                              | 1         |       |
| 38       | 886802    | Gauge, hour meter .....                          | 1         |       |
| 39       | 888076    | Wire, red, battery to starter 4GA x 46" (1168mm) | 1         |       |
| 40       | 888502    | Holder, lamp .....                               | 1         |       |
| 41       | 892811    | Wire, black ground engine 4GA x 24" (610mm) ..   | 1         |       |
| 42       | 894402    | Harness, main wire .....                         | 1         |       |
| 43       | 894521    | Switch, NO lever .....                           | 1         |       |
| 44       | 894526    | Headlight .....                                  | 2         |       |
| 45       | 826000    | Fuse, 20 amp .....                               | 4         |       |
| 46       | 844551    | Spacer, Switch .....                             | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 19.2 CONTROL PANEL (DIESEL)

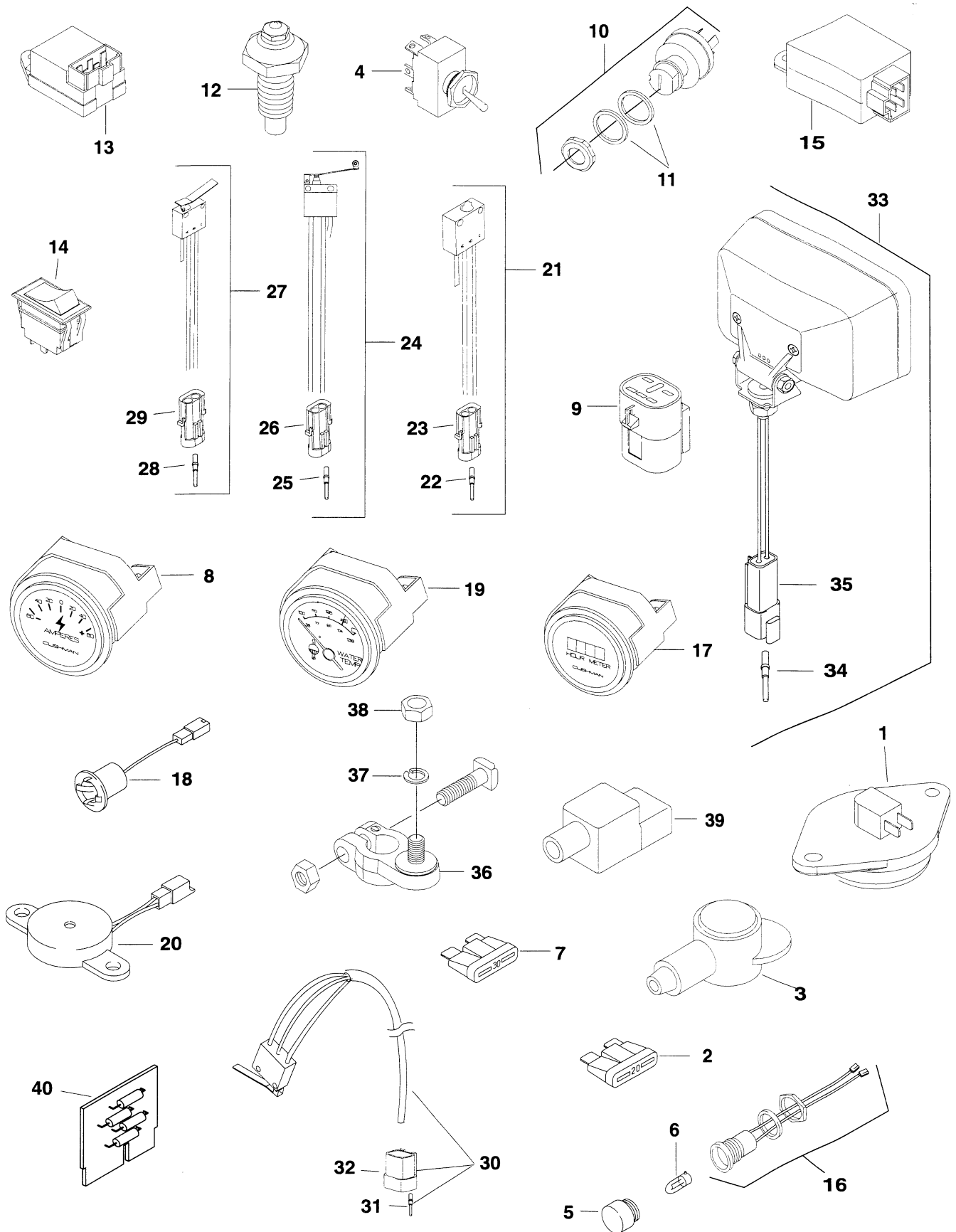


## CONTROL PANEL (DIESEL) 19.2

| Ref. No. | Part No.  | Description                                        | No. Req'd | Notes |
|----------|-----------|----------------------------------------------------|-----------|-------|
| 1        | 158135-01 | Switch, seat .....                                 | 1         |       |
| 2        | 302437    | Nut, #6-32 .....                                   | 6         |       |
| 3        | 303952    | Washer, #10 .....                                  | 12        |       |
| 4        | 306416    | Screw, 5/16-18 x 1" .....                          | 4         |       |
| 5        | 306799    | Lockwasher, 5/16" .....                            | 8         |       |
| 6        | 306990    | Lockwasher, #6 .....                               | 6         |       |
| 7        | 316056    | Screw, #6-32 x 3/4" .....                          | 4         |       |
| 8        | 320107    | Tie, cable 7 1/2" .....                            | 12        |       |
| 9        | 548045    | Screw, 1/4-20 x 3/4" .....                         | 2         |       |
| 10       | 548870    | Nut, speed 10-24 .....                             | 6         |       |
| 11       | 548871    | Retainer .....                                     | 1         |       |
| 12       | 548873    | Receptacle, stud .....                             | 1         |       |
| 13       | 548911    | Nut, flange lock 5/16-18 .....                     | 4         |       |
| 14       | 800296    | Screw, #10-24 x 3/4" .....                         | 6         |       |
| 15       | 800955    | Screw, #6-32 x 3/4" .....                          | 2         |       |
| 16       | 825917    | Grommet .....                                      | 2         |       |
| 17       | 825970    | Boot, terminal .....                               | 1         |       |
| 18       | 828470    | Lens, light .....                                  | 3         |       |
| 19       | 828473    | Bulb, miniature (No. 1873) .....                   | 3         |       |
| 20       | 833280    | Gauge, ammeter .....                               | 1         |       |
| 21       | 835480    | Relay, 30 amp .....                                | 3         |       |
| 22       | 837295    | Switch, ignition .....                             | 1         |       |
| 23       | 837298    | •Spacer, .....                                     | 2         |       |
| 24       | 840354    | Spring, stud ejector .....                         | 1         |       |
| 25       | 840355    | Washer, cupped wear .....                          | 1         |       |
| 26       | 841895    | Cover, battery terminal .....                      | 1         |       |
| 27       | 843612    | Housing, instrument .....                          | 1         |       |
| 28       | 843987    | Bracket, instrument .....                          | 1         |       |
| 29       | 843990    | Switch, rocker .....                               | 2         |       |
| 30       | 844276    | Panel, instrument (DEISEL) .....                   | 1         |       |
| 31       | 844294    | Gasket, instrument panel .....                     | 1         |       |
| 32       | 844295    | Stud, quarter turn .....                           | 1         |       |
| 33       | 844326    | Cover, module .....                                | 1         |       |
| 34       | 844394    | Cover, switch .....                                | 1         |       |
| 35       | 844453    | Tubing, convoluted .....                           | 1         |       |
| 36       | 883078    | Wire, black ground chassis 4GA x 10" (254mm) ..    | 1         |       |
| 37       | 885999    | Socket, light .....                                | 3         |       |
| 38       | 886802    | Gauge, hour meter .....                            | 1         |       |
| 39       | 888076    | Wire, red, battery to starter 4GA x 46" (1168mm) . | 1         |       |
| 40       | 888502    | Holder, lamp .....                                 | 2         |       |
| 41       | 844513    | Wire, black ground engine 4GA x 46" (1168mm) .     | 1         |       |
| 42       | 894403    | Harness, main wire .....                           | 1         |       |
| 43       | 894521    | Switch, NO lever .....                             | 1         |       |
| 44       | 894526    | Headlight .....                                    | 2         |       |
| 45       | 839406    | Timer, lamp 12VDC .....                            | 1         |       |
| 46       | 827800    | Switch, DP DT momentary .....                      | 1         |       |
| 47       | 840002    | Timer, fuel shut off .....                         | 1         |       |
| 48       | 889022    | Gauge, water temperature .....                     | 1         |       |
| 49       | 890000    | Buzzer .....                                       | 1         |       |
| 50       | 826000    | Fuse, 20 amp .....                                 | 4         |       |
| 51       | 833038    | Fuse, 30 amp .....                                 | 1         |       |
| 52       | 844551    | Spacer, Switch .....                               | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 20.1 ELECTRICAL COMPONENTS

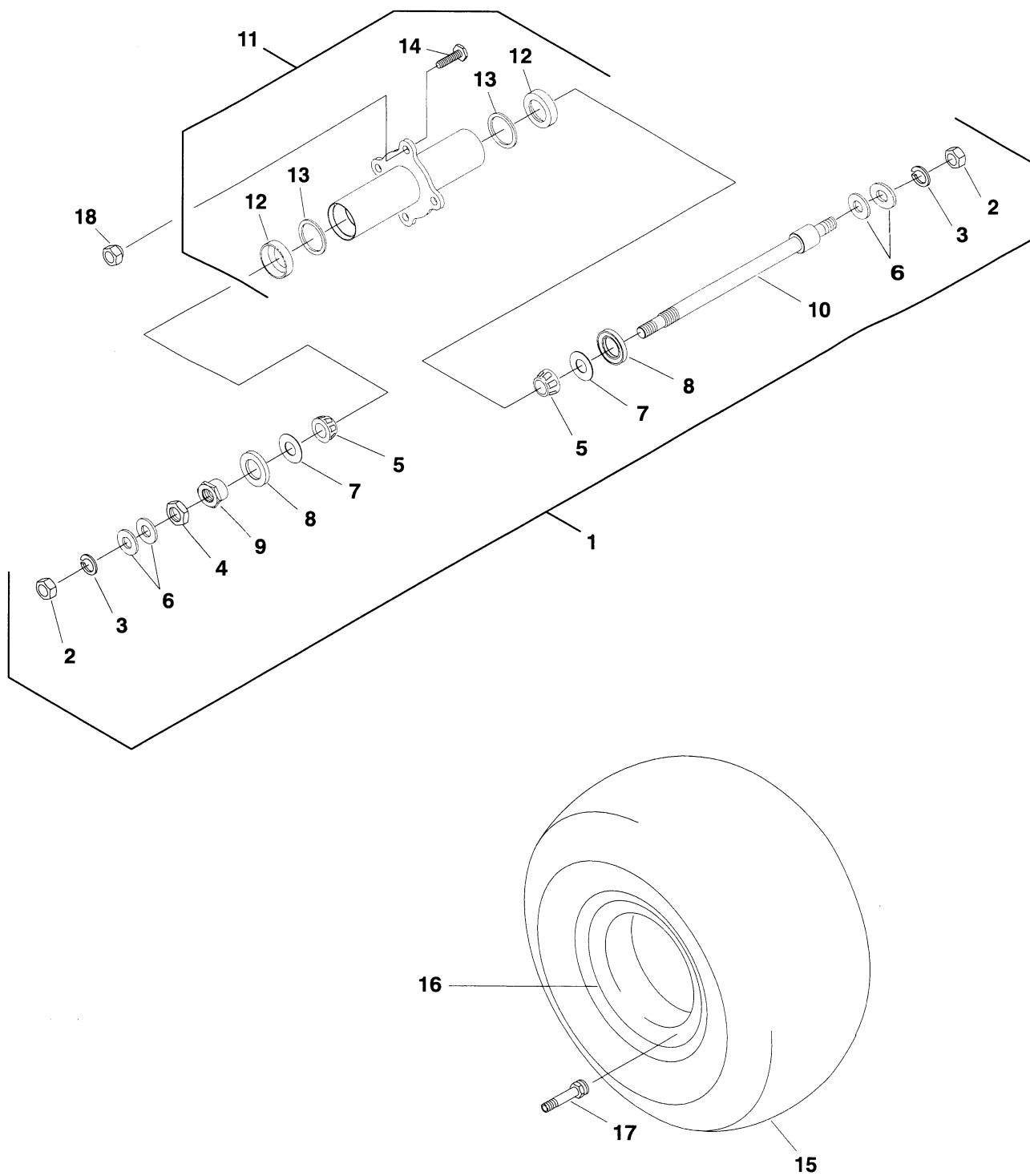


## ELECTRICAL COMPONENTS 20.1

| Ref. No. | Part No.  | Description                         | No. Req'd | Notes |
|----------|-----------|-------------------------------------|-----------|-------|
| 1        | 158135-01 | Switch, seat .....                  | 1         |       |
| 2        | 826000    | Fuse, 20 amp .....                  | 4         |       |
| 3        | 841895    | Cover, battery terminal .....       | 1         |       |
| 4        | 827800    | Switch, DP DT momentary .....       | 1         |       |
| 5        | 828470    | Lens, light .....                   | 1         |       |
| 6        | 828473    | Bulb, miniature (No. 1873) .....    | 1         |       |
| 7        | 833038    | Fuse, 30 amp .....                  | 1         |       |
| 8        | 833280    | Gauge, ammeter .....                | 1         |       |
| 9        | 835480    | Relay, 30 amp .....                 | 1         |       |
| 10       | 837295    | Switch, ignition .....              | 1         |       |
| 11       | 837298    | •Spacer, .....                      | 2         |       |
| 12       | 887735    | Sender, water temperature .....     | 1         |       |
| 13       | 839406    | Timer, lamp 12VDC .....             | 1         |       |
| 14       | 843990    | Switch, rocker .....                | 3         |       |
| 15       | 840002    | Timer, fuel shut off .....          | 1         |       |
| 16       | 885999    | Socket, light .....                 | 1         |       |
| 17       | 886802    | Gauge, hour meter .....             | 1         |       |
| 18       | 888502    | Holder, lamp .....                  | 1         |       |
| 19       | 889022    | Gauge, water temperature .....      | 1         |       |
| 20       | 890000    | Buzzer .....                        | 1         |       |
| 21       | 894385    | Switch, NO (bell crank) .....       | 2         |       |
| 22       | 843769    | •Terminal, male .....               | 2         |       |
| 23       | 843771    | •Connector, male, 2 way .....       | 1         |       |
| 24       | 894520    | Switch, NC (front lift head) .....  | 1         |       |
| 25       | 843769    | •Terminal, male .....               | 2         |       |
| 26       | 843771    | •Connector, male, 2 way .....       | 1         |       |
| 27       | 894521    | Switch, NO (Backlap) .....          | 1         |       |
| 28       | 843769    | •Terminal, male .....               | 2         |       |
| 29       | 843771    | •Connector, male, 2 way .....       | 1         |       |
| 30       | 894522    | Switch, (speed control pedal) ..... | 1         |       |
| 31       | 843769    | •Terminal, male .....               | 2         |       |
| 32       | 843773    | •Connector, male, 3 way .....       | 1         |       |
| 33       | 894526    | Headlight .....                     | 2         |       |
| 34       | 843769    | •Terminal, male .....               | 2         |       |
| 35       | 843771    | •Connector, male, 2 way .....       | 1         |       |
| 36       | 893395    | Terminal, battery .....             | 1         |       |
| 37       | 306325    | •Lockwasher, 5/16" .....            | 1         |       |
| 38       | 306932    | •Nut, 5/16-18 .....                 | 1         |       |
| 39       | 837462    | •Boot, battery terminal .....       | 1         |       |
| 40       | 843816    | Module, diode array .....           | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 21.1 WHEELS AND REAR HUB

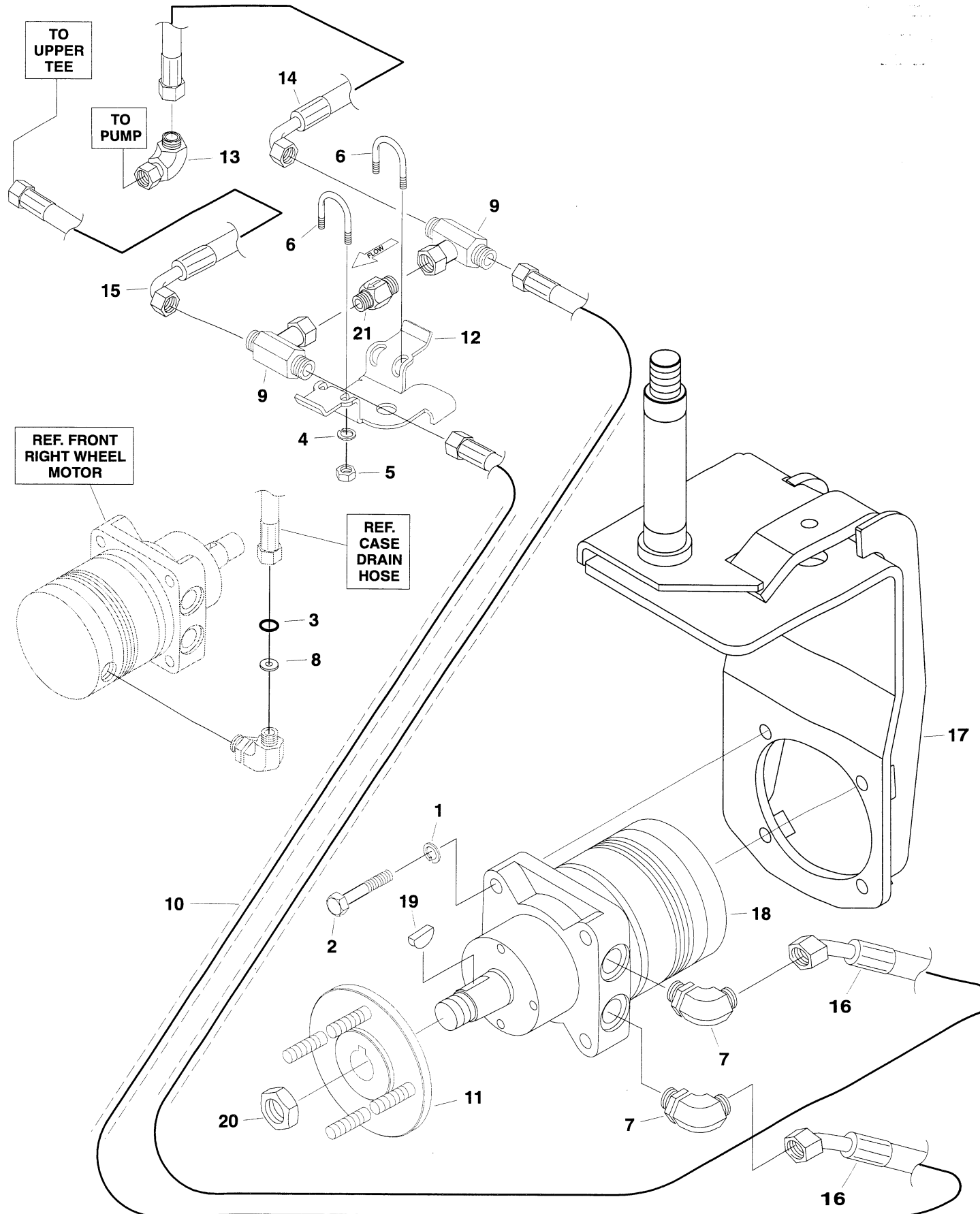


# WHEELS AND REAR HUB 21.1

| Ref. No. | Part No. | Description                         | No. Req'd | Notes                        |
|----------|----------|-------------------------------------|-----------|------------------------------|
| 1        | 892225   | Hub & Axle, complete .....          | 1         | All three tires are the same |
| 2        | 304104   | •Nut, jam, 5/8-18 .....             | 2         |                              |
| 3        | 306494   | •Lockwasher, 5/8" .....             | 2         |                              |
| 4        | 307665   | •Nut, jam, 3/4-16 .....             | 1         |                              |
| 5        | 385174   | •Bearing, cone and roller .....     | 2         |                              |
| 6        | 809156   | •Washer, 5/8" .....                 | 4         |                              |
| 7        | 809229   | •Flinger, grease seal .....         | 2         |                              |
| 8        | 836621   | •Seal, oil .....                    | 2         |                              |
| 9        | 836719   | •Nut, bearing adj. ....             | 1         |                              |
| 10       | 889843   | •Axle .....                         | 1         |                              |
| 11       | 892171   | •Hub .....                          | 1         |                              |
| 12       | 808088   | ••Cup, tapered roller bearing ..... | 2         |                              |
| 13       | 809268   | ••Ring, bearing backing .....       | 2         |                              |
| 14       | 816320   | ••Screw, 7/16-20 x 1 1/8" .....     | 4         |                              |
| 15       | 893184   | Tire, 20 x10.00 - 10 .....          | 3         |                              |
| 16       | 892687   | Rim, 10 X 8.50 .....                | 3         |                              |
| 17       | 886735   | Valve Stem .....                    | 3         |                              |
| 18       | 829441   | Nut, wheel mounting .....           | 4         |                              |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 22.1 3 - WHEEL DRIVE ACCESSORY PART NO. 894483



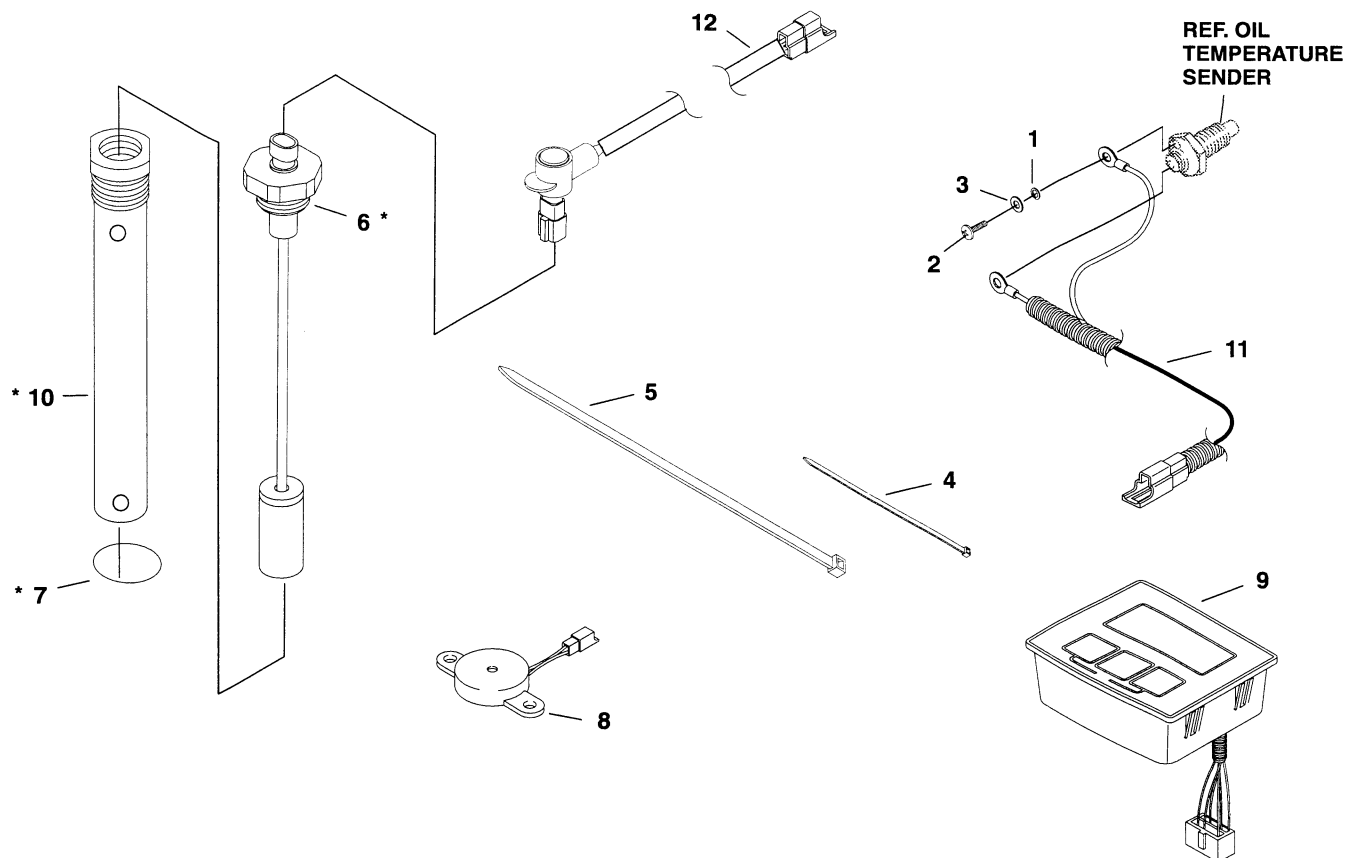
**3 – WHEEL DRIVE ACCESSORY 22.1**  
**PART NO. 894483**

| Ref. No. | Part No.  | Description                                                   | No. Req'd | Notes |
|----------|-----------|---------------------------------------------------------------|-----------|-------|
| 1        | 120166    | Lockwasher, 1/2" .....                                        | 4         |       |
| 2        | 131981    | Screw, 1/2–13 x 2 1/2" .....                                  | 4         |       |
| 3        | 158061-01 | O–ring .....                                                  | 1         |       |
| 4        | 306325    | Lockwasher, 5/16" .....                                       | 4         |       |
| 5        | 306932    | Nut, 5/16–18 .....                                            | 4         |       |
| 6        | 517415    | U–bolt .....                                                  | 2         |       |
| 7        | 523759    | Adapter, 90° elbow .....                                      | 2         |       |
| 8        | 841523    | Disk, orifice .....                                           | 1         |       |
| 9        | 844082    | Tee, branch .....                                             | 2         |       |
| 10       | 844083    | Sleeve, nylon, 1 7/8" i.d. x 38"<br>(48mm i.d. x 965mm) ..... | 2         |       |
| 11       | 844679    | Hub, wheel .....                                              | 1         |       |
| 12       | 844681    | Bracket, hose .....                                           | 1         |       |
| 13       | 844682    | Elbow, 90° .....                                              | 1         |       |
| 14       | 845272    | Hose, hyd. 1/2" i.d. x 32 1/2"<br>(13mm i.d. x 826mm) .....   | 1         |       |
| 15       | 845273    | Hose, hyd. 1/2" i.d. x 39 1/4"<br>(13mm i.d. x 1003mm) .....  | 1         |       |
| 16       | 845274    | Hose, hyd. 1/2" i.d. x 40 1/2"<br>(13mm i.d. x 1029mm) .....  | 2         |       |
| 17       | 894728    | Fork, assembly .....                                          | 1         |       |
| 18       | 894729    | Motor, wheel, hydraulic .....                                 | 1         |       |
| 19       | 800777    | •Key, woodruff, 5/16" x 1" .....                              | 1         |       |
| 20       | 800778    | •Nut, 1–20 .....                                              | 1         |       |
| 21       | 894730    | Valve, check .....                                            | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 23.1 TURF PROTECTION ACCESSORY PART NO. 894485

\* PREASSEMBLED



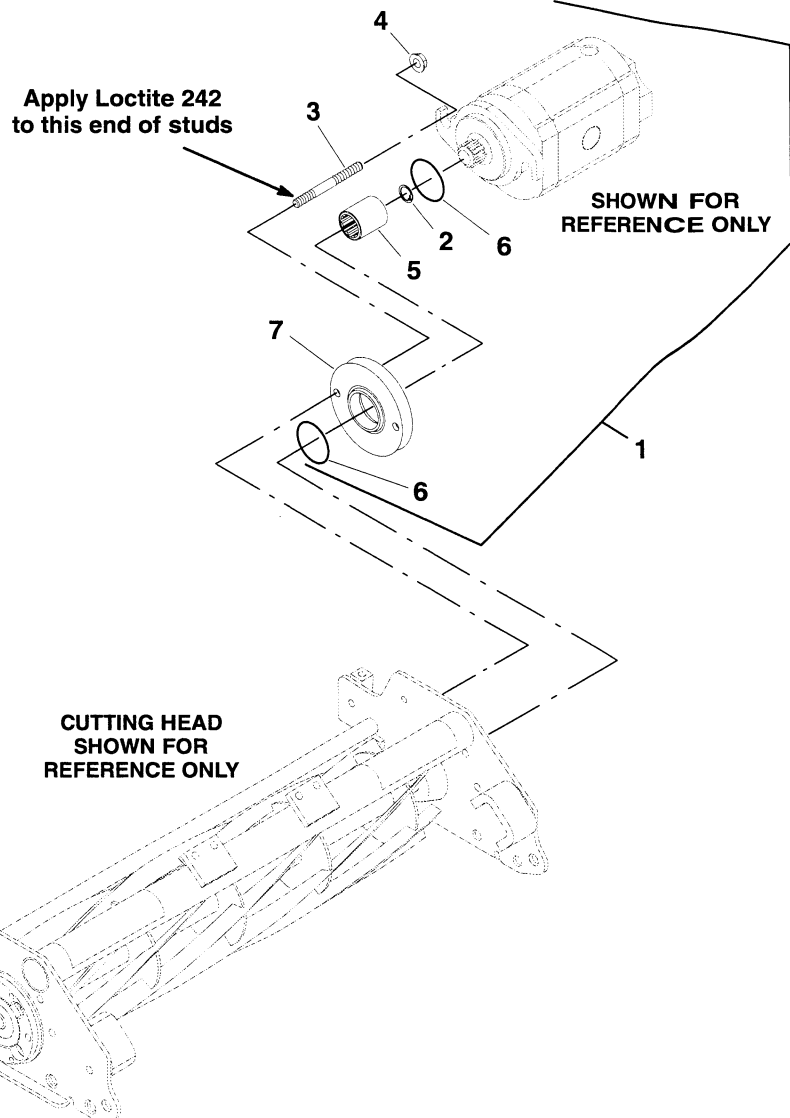
| Ref. No. | Part No. | Description                        | No. Req'd | Notes |
|----------|----------|------------------------------------|-----------|-------|
| 1        | 120052   | Lockwasher, #10 .....              | 1         |       |
| 2        | 306460   | Screw, #10-24 x 3/8" .....         | 1         |       |
| 3        | 308089   | Washer, #10 .....                  | 1         |       |
| 4        | 320107   | Tie, cable (7 1/2") .....          | 3         |       |
| 5        | 823549   | Tie, cable, 15 1/2" (394 mm) ..... | 1         |       |
| 6        | 840054   | Sensor, oil .....                  | 1         |       |
| 7        | 844081   | O-ring .....                       | 1         |       |
| 8        | 890000   | Buzzer .....                       | 1         |       |
| 9        | 893168   | Module, instrument .....           | 1         |       |
| 10       | 894443   | Standpipe .....                    | 1         |       |
| 11       | 894558   | Harness, temp. sender .....        | 1         |       |
| 12       | 894586   | Wire assembly, oil level .....     | 1         |       |

## COUNTER WEIGHT and MOTOR MOUNTING 24.1 CUTTING HEADS and VERTICUTTER

**MOTOR ADAPTER AND WEIGHTS FOR  
THE FOLLOWING CUTTING HEADS**  
**PART NO. 893591 (11-BLADE)**  
**PART NO. 893589 (9-BLADE) SHOWN**  
**PART NO. 893587 (7-BLADE)**

**WEIGHT SET CAN BE USED ON THE  
FOLLOWING CUTTING HEADS:**

**893591 11-BLADE**  
**893589 9-BLADE**  
**893587 7-BLADE**  
**893592 VERTICUTTER**

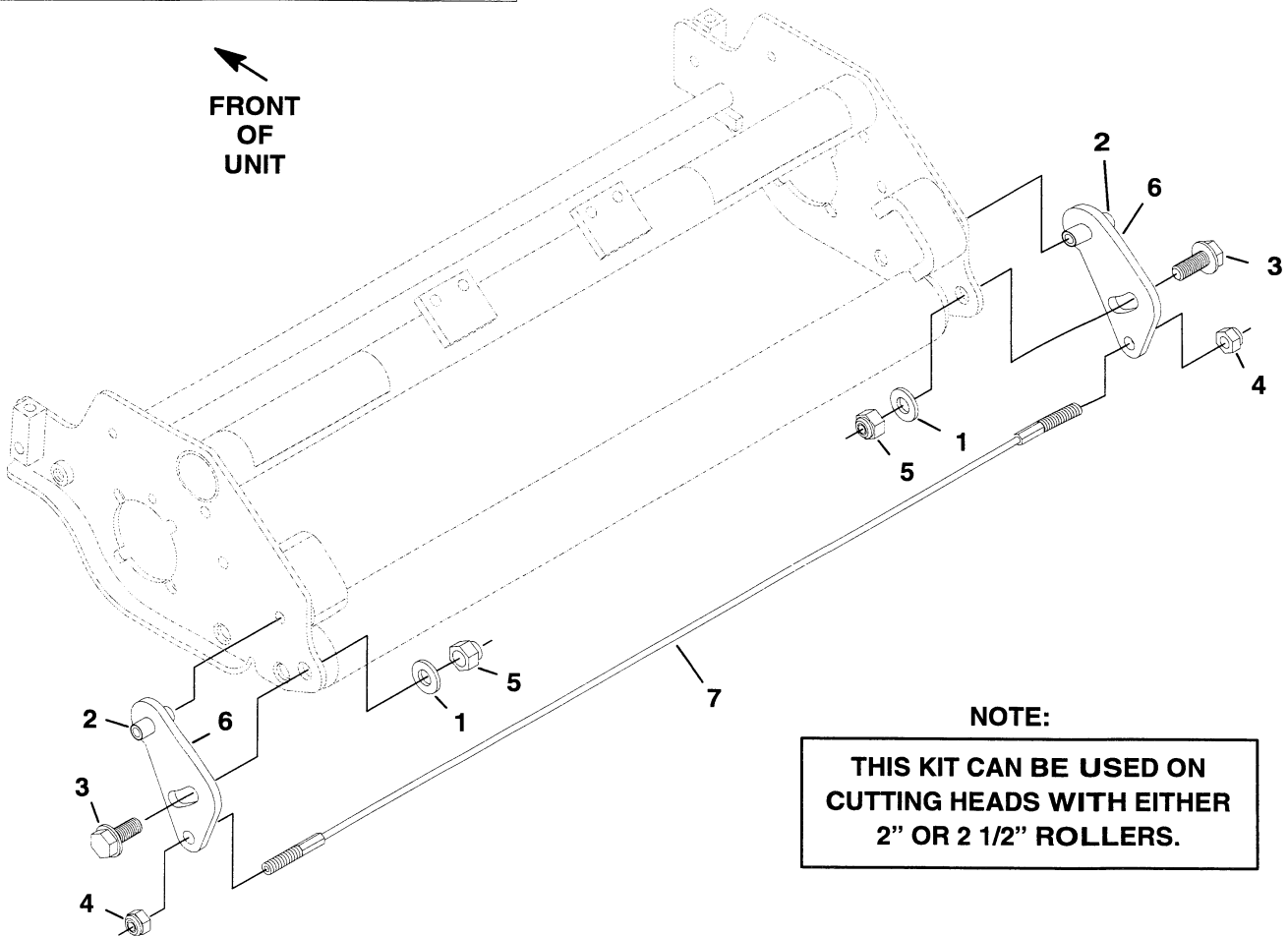


| Ref. No. | Part No. | Description                              | No. Req'd | Notes                          |
|----------|----------|------------------------------------------|-----------|--------------------------------|
| 1        | 894993   | Kit, motor adapter . . . . .             | 1         | Must have to mount these heads |
| 2        | 800810   | •Ring, retaining, internal . . . . .     | 1         |                                |
| 3        | 800904   | •Stud, 5/16-18 x 2" . . . . .            | 2         |                                |
| 4        | 800907   | •Nut, 5/16-18 flange . . . . .           | 2         |                                |
| 5        | 839054   | •Coupling, drive . . . . .               | 1         |                                |
| 6        | 839062   | •Seal, o-ring, 1.88 i.d. x .06 . . . . . | 2         |                                |
| 7        | 841725   | •Adapter, motor . . . . .                | 1         |                                |
| 8        | 894673   | Weight set . . . . .                     | 1         |                                |
| 9        | 103867   | •Washer, 5/16 . . . . .                  | 2         |                                |
| 10       | 306325   | •Lockwasher, 5/16 . . . . .              | 2         |                                |
| 11       | 306424   | •Screw, 5/16-18 x 2" . . . . .           | 2         |                                |
| 12       | 841775   | •Weight, counter . . . . .               | 7         |                                |

• INDENTED PARTS NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY

24.1 REAR ROLLER SCRAPER  
PART NO. 892328

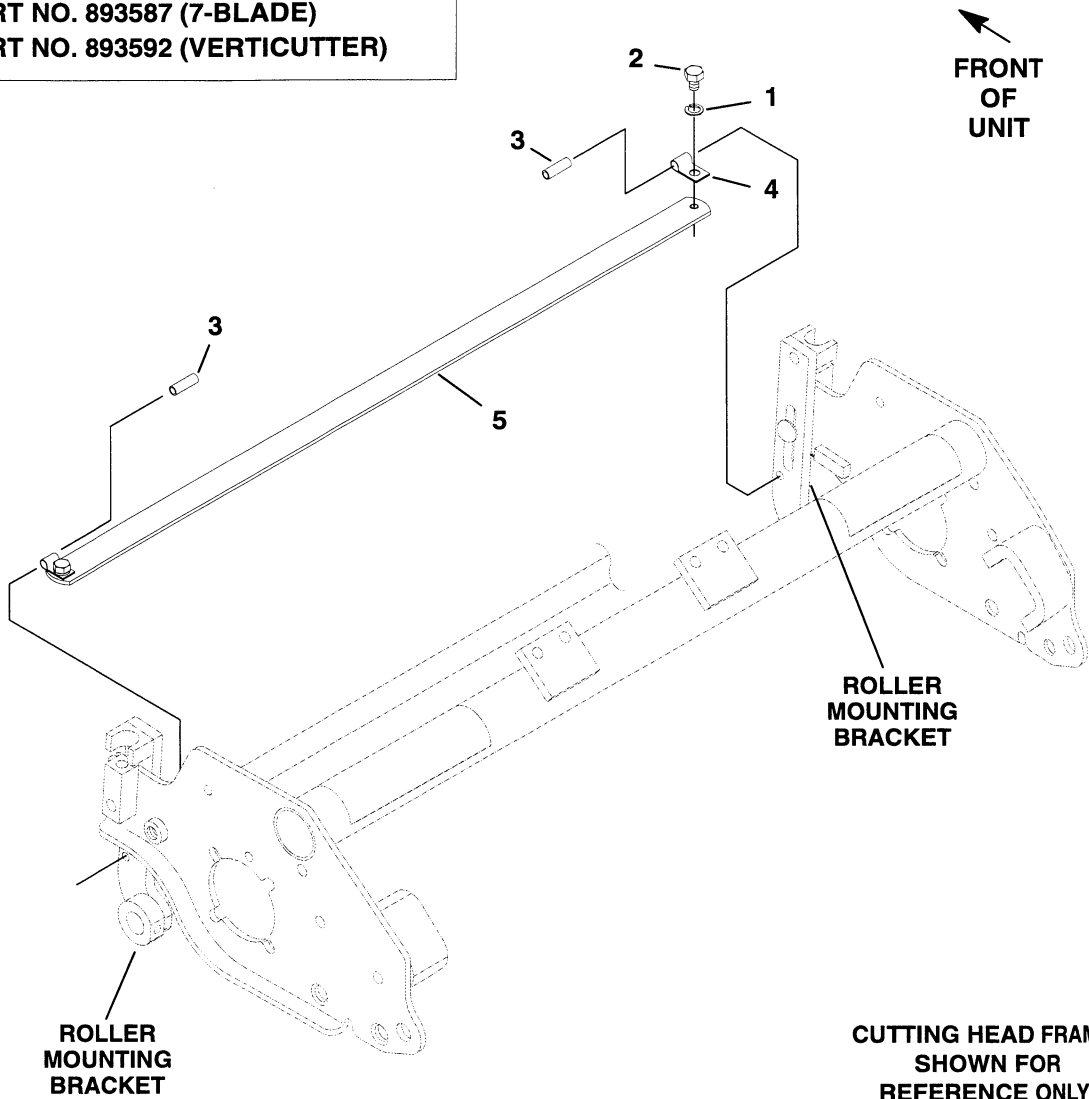
SCRAPER CAN BE USED ON THE  
FOLLOWING CUTTING HEADS  
PART NO. 893591 (11-BLADE)  
PART NO. 893589 (9-BLADE) SHOWN  
PART NO. 893587 (7-BLADE)  
PART NO. 893592 (VERTICUTTER)



| Ref.<br>No. | Part<br>No. | Description                    | No.<br>Req'd | Notes |
|-------------|-------------|--------------------------------|--------------|-------|
| 1           | 103867      | Washer, 5/16" .....            | 2            |       |
| 2           | 316946      | Pin, spirol, 5/16 x 7/8" ..... | 2            |       |
| 3           | 800794      | Screw, 5/16-18 x 3/4" .....    | 2            |       |
| 4           | 800814      | Nut, nyloc, 1/4-20 .....       | 2            |       |
| 5           | 800855      | Nut, nyloc, 5/16-18 .....      | 2            |       |
| 6           | 841181      | Bracket, scraper .....         | 9            |       |
| 7           | 841182      | Cable, 26.38" (670 mm) .....   | 1            |       |

FRONT ROLLER SCRAPER 24.1  
PART NO. 892329

SCRAPER CAN BE USED ON THE  
FOLLOWING CUTTING HEADS  
PART NO. 893591 (11-BLADE)  
PART NO. 893589 (9-BLADE) SHOWN  
PART NO. 893587 (7-BLADE)  
PART NO. 893592 (VERTICUTTER)



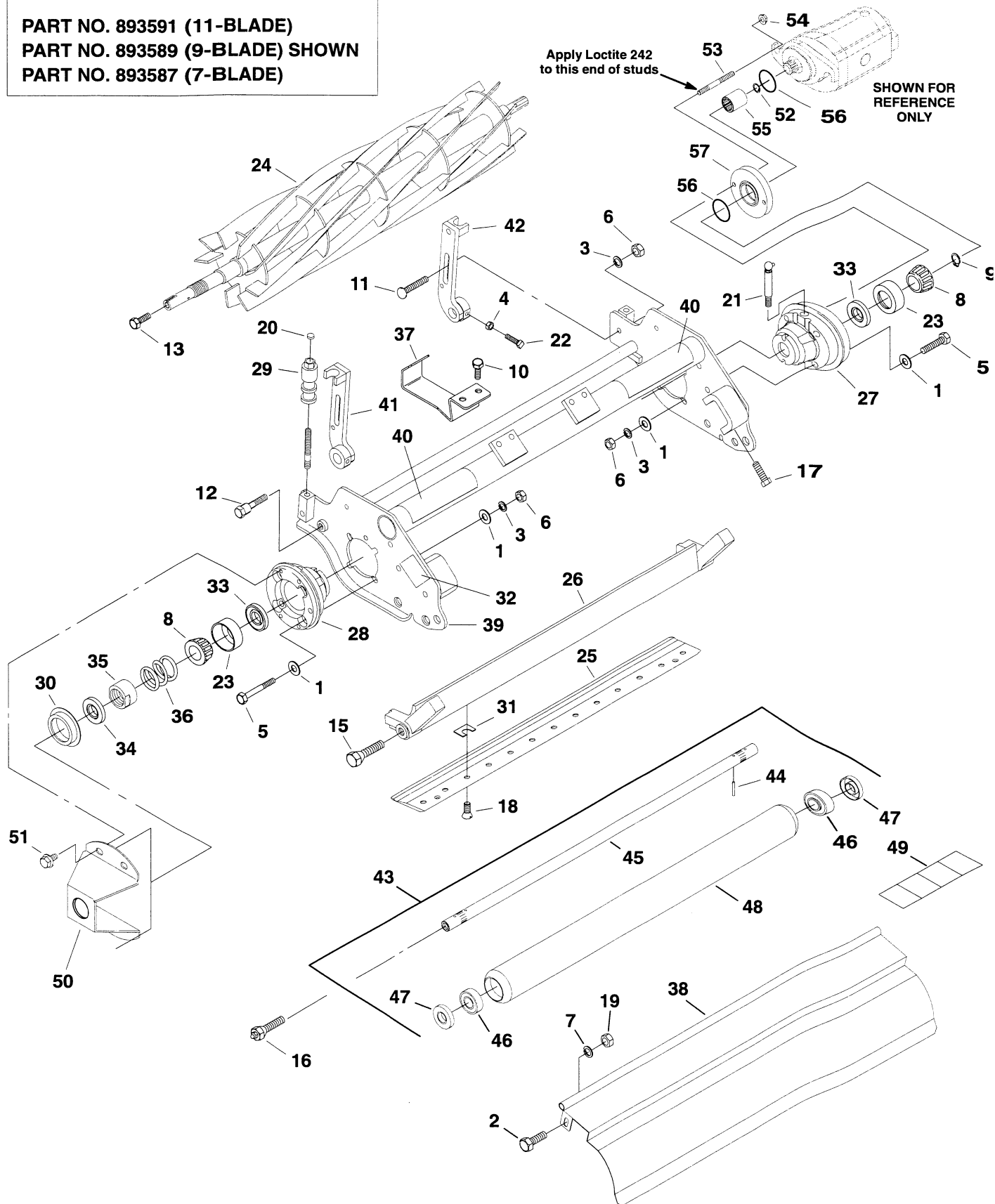
| Ref. No. | Part No. | Description                  | No. Req'd | Notes |
|----------|----------|------------------------------|-----------|-------|
|          | 892329   | Scraper, front roller .....  | 1         |       |
| 1        | 306396   | •Lockwasher, 1/4" .....      | 2         |       |
| 2        | 306831   | •Screw, 1/4-20 x 3/8" .....  | 2         |       |
| 3        | 800900   | •Pin, spiro, 1/4" x 1" ..... | 2         |       |
| 4        | 809143   | •Clamp .....                 | 2         |       |
| 5        | 839486   | •Scraper .....               | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 24.1 CUTTING HEADS

### CUTTING HEAD ACCESSORIES

PART NO. 893591 (11-BLADE)  
PART NO. 893589 (9-BLADE) SHOWN  
PART NO. 893587 (7-BLADE)



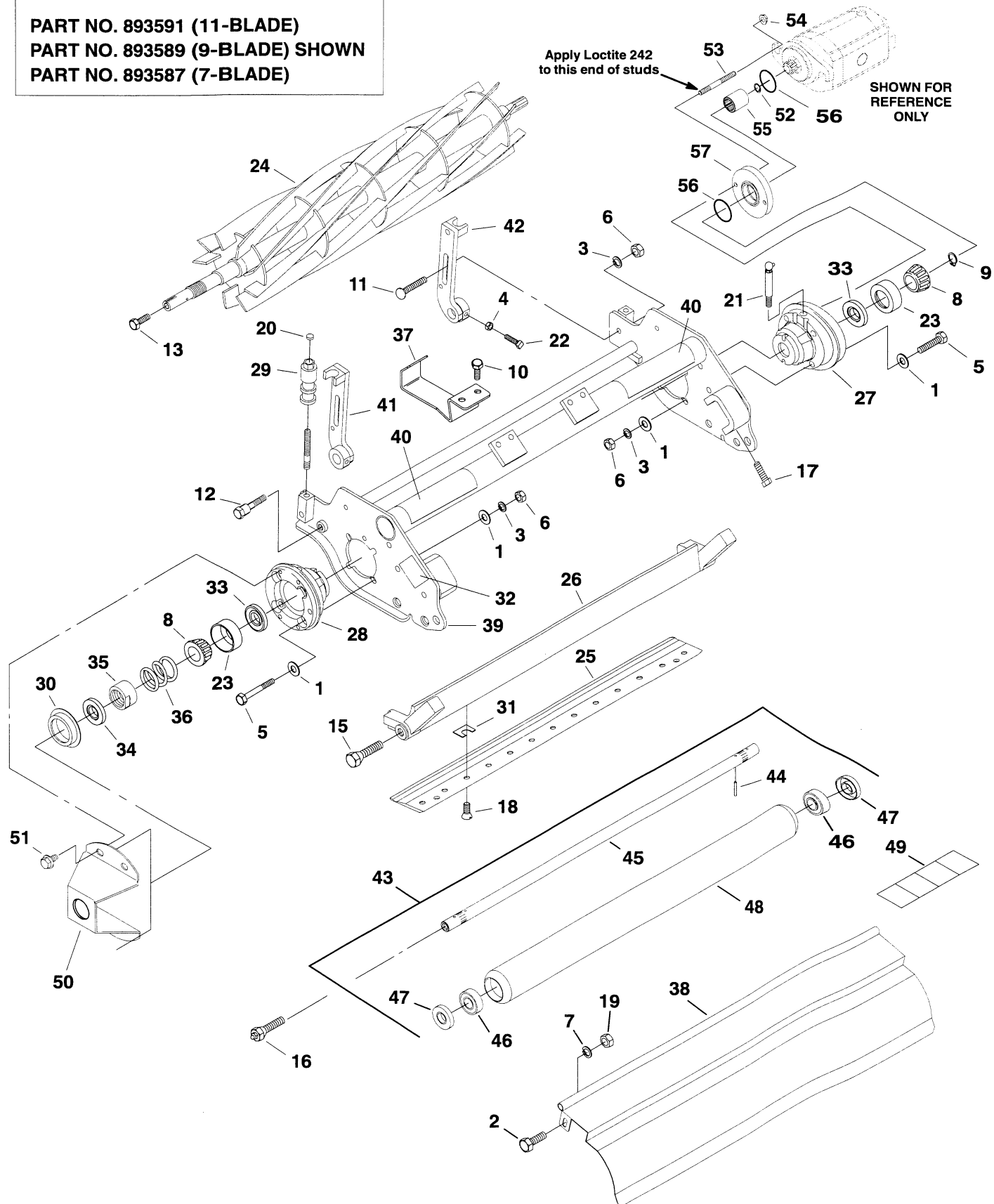
| Ref. No. | Part No.  | Description                                   | No. Req'd | Notes |
|----------|-----------|-----------------------------------------------|-----------|-------|
| 1        | 103867    | Washer, 5/16" . . . . .                       | 16        |       |
| 2        | 300646    | Screw, 1/4-20 x 3/4" . . . . .                | 2         |       |
| 3        | 306325    | Lockwasher, 5/16" . . . . .                   | 10        |       |
| 4        | 306375    | Nut, 1/4-20 . . . . .                         | 2         |       |
| 5        | 306501    | Screw, 5/16-18 x 1 1/2" . . . . .             | 8         |       |
| 6        | 306932    | Nut, 5/16-18 . . . . .                        | 10        |       |
| 7        | 308090    | Washer, 1/4" . . . . .                        | 2         |       |
| 8        | 385174    | Cone, tapered roller bearing . . . . .        | 2         |       |
| 9        | 548324    | Ring, retaining . . . . .                     | 1         |       |
| 10       | 548604    | Screw, flangelock, 5/16-18 x 3/4" . . . . .   | 2         |       |
| 11       | 800354    | Bolt, carriage, 5/16-18 x 1 3/4" . . . . .    | 2         |       |
| 12       | 800812    | Bolt, shoulder, 3/8-16 x 1" . . . . .         | 2         |       |
| 13       | 800805    | Screw, 3/8-24 x 3/4", grade 8 . . . . .       | 1         |       |
| 14       | 800806    | Stud, 5/16-18 x 2 3/4" . . . . .              | 2         |       |
| 15       | 800808    | Bolt, lug, 7/16-20 . . . . .                  | 2         |       |
| 16       | 800809    | Bolt, lug, 7/16-20 (lube fitting) . . . . .   | 2         |       |
| 17       | 800857    | Screw, set, 3/8-24 x 1 1/4" . . . . .         | 4         |       |
| 18       | 800813    | Screw, 1/4-20 x 1/2" . . . . .                | 13        |       |
| 19       | 800814    | Nut, lock, 1/4-20 . . . . .                   | 2         |       |
| 20       | 800815    | Plug, expansion, 3/8" . . . . .               | 2         |       |
| 21       | 800816    | Fitting, lubrication, 90°, 1/8" NPT . . . . . | 2         |       |
| 22       | 800848    | Screw, set, 1/4-20 x 1" . . . . .             | 2         |       |
| 23       | 808088    | Cup, roller bearing, tapered . . . . .        | 2         |       |
| 24       | 839030    | Reel, 11 blade . . . . .                      | 1         |       |
|          | <b>or</b> |                                               |           |       |
|          | 839019    | Reel, 9 blade . . . . .                       | 1         |       |
|          | <b>or</b> |                                               |           |       |
|          | 839027    | Reel, 7 blade . . . . .                       | 1         |       |
| 25       | 839022    | Bedknife, .175" . . . . .                     | 1         |       |
|          | <b>or</b> |                                               |           |       |
|          | 839023    | Bedknife, .200" (standard) . . . . .          | 1         |       |
|          | <b>or</b> |                                               |           |       |
|          | 839024    | Bedknife, .250" . . . . .                     | 1         |       |
| 26       | 839032    | Bedbar . . . . .                              | 1         |       |
| 27       | 839035    | Housing, bearing, right . . . . .             | 1         |       |
| 28       | 841949    | Housing, bearing, left . . . . .              | 1         |       |
| 29       | 841991    | Knob, adjustment . . . . .                    | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 24.1 CUTTING HEADS

### CUTTING HEAD ACCESSORIES

PART NO. 893591 (11-BLADE)  
PART NO. 893589 (9-BLADE) SHOWN  
PART NO. 893587 (7-BLADE)



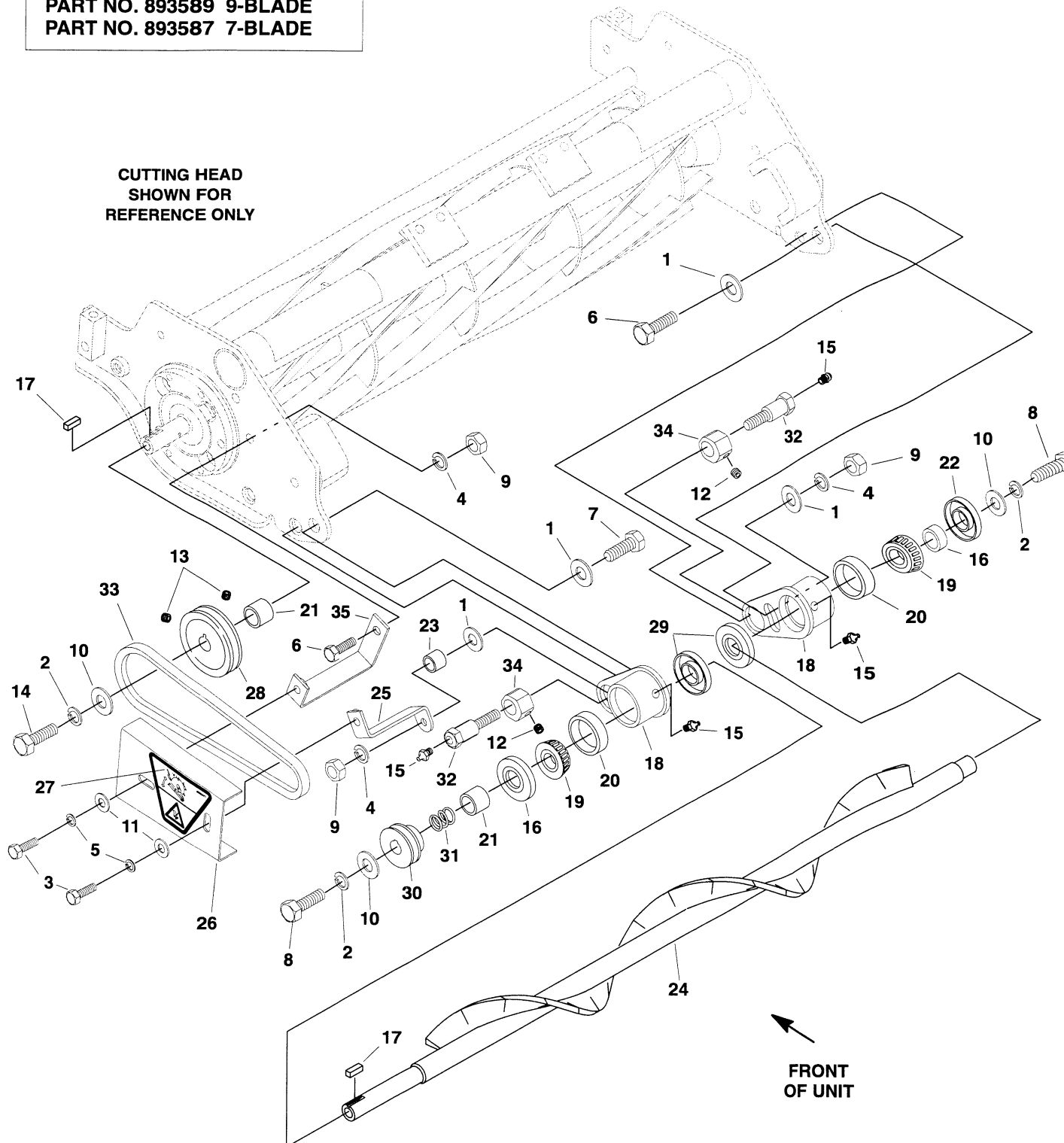
| Ref. No. | Part No.  | Description                                  | No. Req'd | Notes                                 |
|----------|-----------|----------------------------------------------|-----------|---------------------------------------|
| 30       | 839053    | Retainer, seal .....                         | 1         | Must have to mount <b>these</b> heads |
| 31       | 839058    | Shim, bedknife, .003" .....                  | As Req'd  |                                       |
|          | <b>or</b> |                                              |           |                                       |
|          | 839059    | Shim, bedknife, .007" .....                  | As Req'd  |                                       |
| 32       | 841751    | Decal, rotate reel .....                     | 1         |                                       |
| 33       | 839064    | Seal, oil, 1.38" o.d. x .88" i.d. ....       | 2         |                                       |
| 34       | 839065    | Seal, oil, 1.56" o.d. x 1" i.d. ....         | 1         |                                       |
| 35       | 839067    | Nut, bearing adjustment,<br>3/4-16 UNF ..... | 1         |                                       |
| 36       | 839068    | Spring, compression .....                    | 1         |                                       |
| 37       | 842404    | Hook, stop .....                             | 1         |                                       |
| 38       | 839070    | Shield, grass .....                          | 1         |                                       |
| 39       | 892009    | Frame .....                                  | 1         |                                       |
| 40       | 869081    | •Decal, danger hands and feet .....          | 2         |                                       |
| 41       | 891998    | Bracket, front roller, left .....            | 1         |                                       |
| 42       | 891999    | Bracket, front roller, right .....           | 1         |                                       |
| 43       | 892000    | Roller, rear, 2" smooth .....                | 1         |                                       |
| 44       | 306966    | •Pin, roll, 1/8" x 3/4" .....                | 2         |                                       |
| 45       | 839057    | •Shaft, roller .....                         | 1         |                                       |
| 46       | 839063    | •Bearing, ball, 1.38" o.d. x .63 i.d. ....   | 2         |                                       |
| 47       | 839066    | •Seal, oil, 1.38" o.d. x .63 i.d. ....       | 2         |                                       |
| 48       | 892005    | •Tube, roller .....                          | 1         |                                       |
| 49       | 840219    | Decal, service cutting head .....            | 1         |                                       |
| 50       | 844172    | Cover, shaft .....                           | 1         |                                       |
| 51       | 548901    | Screw, 5/16-18 x 1/2 .....                   | 4         |                                       |
|          | 894993    | Kit, motor mounting .....                    | 1         |                                       |
| 52       | 800810    | •Ring, retaining, internal .....             | 1         |                                       |
| 53       | 800904    | •Stud, 5/16-18 x 2" .....                    | 2         |                                       |
| 54       | 800907    | •Nut, 5/16-18, flange .....                  | 2         |                                       |
| 55       | 839054    | •Coupling, drive .....                       | 1         |                                       |
| 56       | 839062    | •Seal, o-ring, 1.88 i.d. x .06 .....         | 2         |                                       |
| 57       | 841725    | •Adapter, motor .....                        | 1         |                                       |
|          |           | <b>Accessory rollers</b>                     |           |                                       |
|          | 892323    | Roller, front, 2" smooth .....               | 1         |                                       |
|          | 892324    | Roller, front, 2" grooved .....              | 1         |                                       |
|          | 892325    | Roller, rear, 2" grooved .....               | 1         |                                       |
|          | 839079    | Roller, front, 2" aluminum, grooved .....    | 1         |                                       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 24.1 ROTARY REAR BRUSH PART NO. 892327

ROTARY REAR BRUSH CAN BE  
USED ON THE FOLLOWING  
CUTTING HEADS:

PART NO. 893591 11-BLADE  
PART NO. 893589 9-BLADE  
PART NO. 893587 7-BLADE

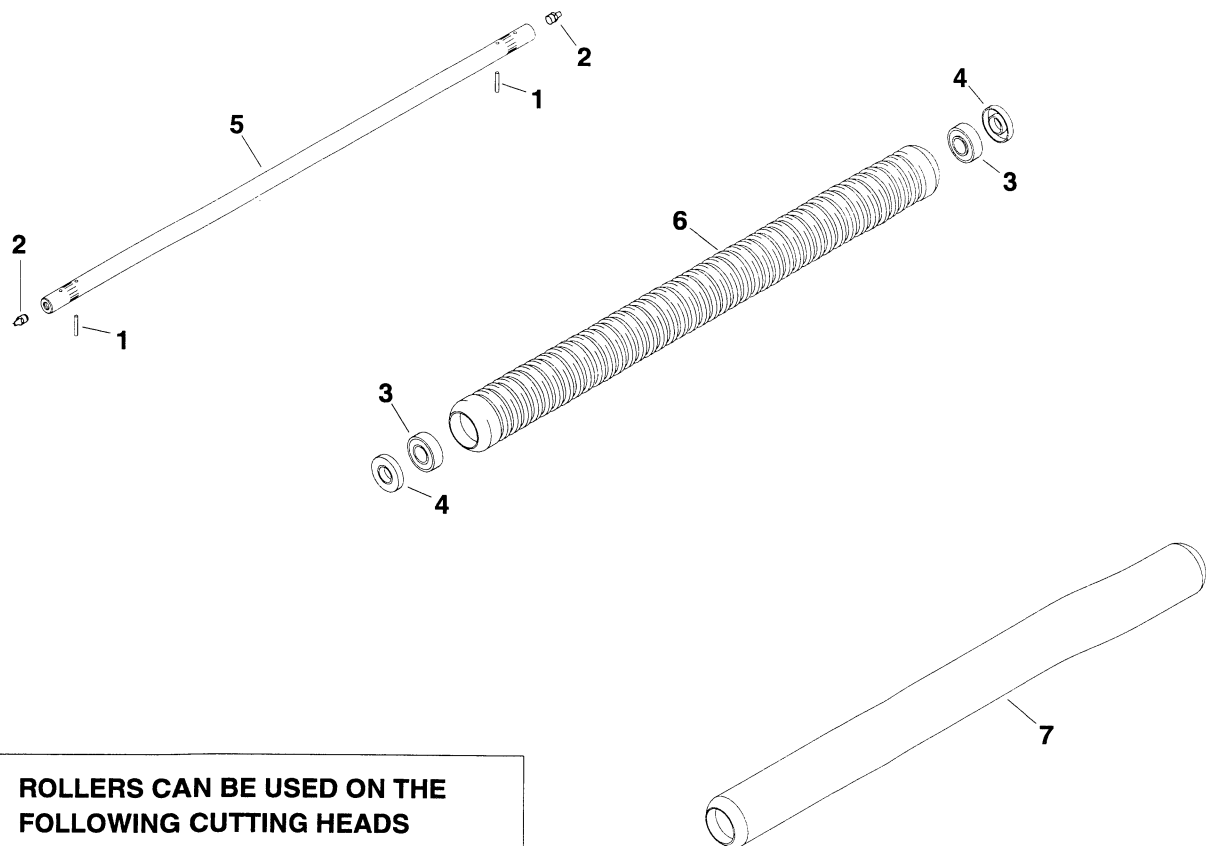


**ROTARY REAR BRUSH 24.1**  
**PART NO. 892327**

| Ref. No. | Part No. | Description                          | No. Req'd | Notes |
|----------|----------|--------------------------------------|-----------|-------|
| 1        | 103867   | Washer, 5/16 .....                   | 4         |       |
| 2        | 120177   | Lockwasher, 3/8, spring .....        | 3         |       |
| 3        | 300646   | Screw, 1/4-20 x 3/4 .....            | 2         |       |
| 4        | 306325   | Lockwasher, 5/16 .....               | 3         |       |
| 5        | 306396   | Lockwasher, 1/4 .....                | 2         |       |
| 6        | 306416   | Screw, 5/16-18 x 1 .....             | 2         |       |
| 7        | 306423   | Screw, 5/16-18 x 1 3/4 .....         | 1         |       |
| 8        | 306834   | Screw, 3/8-16 x 3/4 .....            | 2         |       |
| 9        | 306932   | Nut, 5/16-18 .....                   | 3         |       |
| 10       | 306981   | Washer, 3/8 .....                    | 3         |       |
| 11       | 308090   | Washer, 1/4 .....                    | 2         |       |
| 12       | 548205   | Set screw, 1/4-20 x 1/4, nyloc ..... | 2         |       |
| 13       | 548813   | Set screw, 5/16-18 x 3/8 .....       | 2         |       |
| 14       | 800805   | Screw, 3/8-24 x 1 .....              | 1         |       |
| 15       | 807439   | Fitting, lubrication .....           | 4         |       |
| 16       | 839064   | Seal, oil .....                      | 2         |       |
| 17       | 839454   | Key, 1/8 x 1/8 x 3/8 .....           | 2         |       |
| 18       | 840944   | Housing, bearing .....               | 2         |       |
| 19       | 840945   | Bearing, cone .....                  | 2         |       |
| 20       | 840946   | Cup, roller .....                    | 2         |       |
| 21       | 840947   | Spacer, 1 1/8 .....                  | 2         |       |
| 22       | 840948   | Spacer, 5/16 .....                   | 1         |       |
| 23       | 840949   | Spacer, 5/8 .....                    | 1         |       |
| 24       | 840950   | Brush, spiral .....                  | 1         |       |
| 25       | 840951   | Bracket, cover .....                 | 1         |       |
| 26       | 893050   | Cover, belt w/decals .....           | 1         |       |
| 27       | 839047   | •Decal, warning—rotate reel .....    | 1         |       |
| 28       | 840953   | Pulley .....                         | 1         |       |
| 29       | 840954   | Seal, oil .....                      | 2         |       |
| 30       | 840955   | Pulley .....                         | 1         |       |
| 31       | 840956   | Spring, compression .....            | 1         |       |
| 32       | 840957   | Screw, shoulder .....                | 2         |       |
| 33       | 840958   | Belt .....                           | 1         |       |
| 34       | 840959   | Nut, adjusting, eccentric .....      | 2         |       |
| 35       | 840961   | Brace, cover .....                   | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

**24.1 FRONT ROLLERS**  
**PART NO. 892323 – 2" SMOOTH**  
**PART NO. 892324 – 2" GROOVED**  
**PART NO. 897177 - 2" GROOVED ALUMINUM**

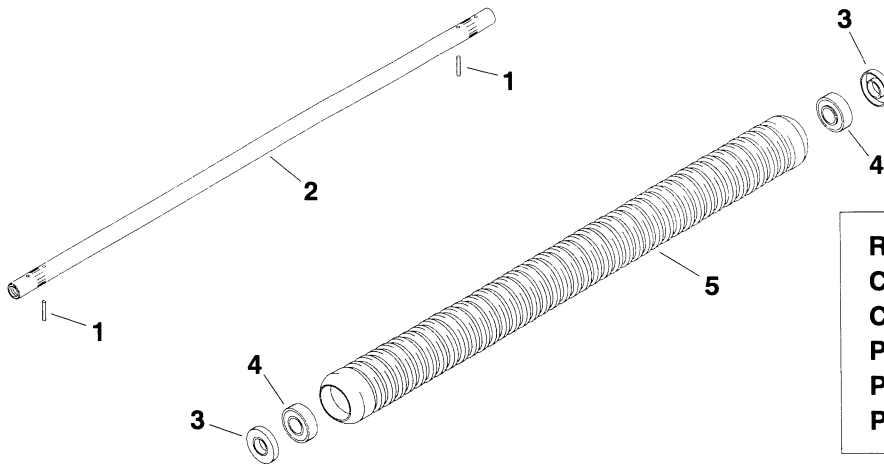


**ROLLERS CAN BE USED ON THE  
 FOLLOWING CUTTING HEADS**

**PART NO. 893591 (11-BLADE)**  
**PART NO. 893589 (9-BLADE) SHOWN**  
**PART NO. 893587 (7-BLADE)**

| Ref. No. | Part No. | Description                               | No. Req'd | Notes |
|----------|----------|-------------------------------------------|-----------|-------|
| 1        | 306966   | Pin, roll 1/8" x 3/4" .....               | 2         |       |
| 2        | 807439   | Fitting, lubricant 1/4-28 .....           | 2         |       |
| 3        | 839063   | Bearing, ball 1.38" o.d. x .63" i.d. .... | 2         |       |
| 4        | 839066   | Seal, oil 1.38" o.d. x .63" i.d. ....     | 2         |       |
| 5        | 839075   | Shaft, front roller .....                 | 1         |       |
| 6        | 839076   | Tube, roller, grooved .....               | 1         |       |
|          | 839079   | Tube, roller, aluminum, grooved .....     | 1         |       |
| 7        | 892005   | Tube, roller, smooth .....                | 1         |       |

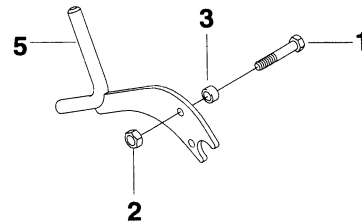
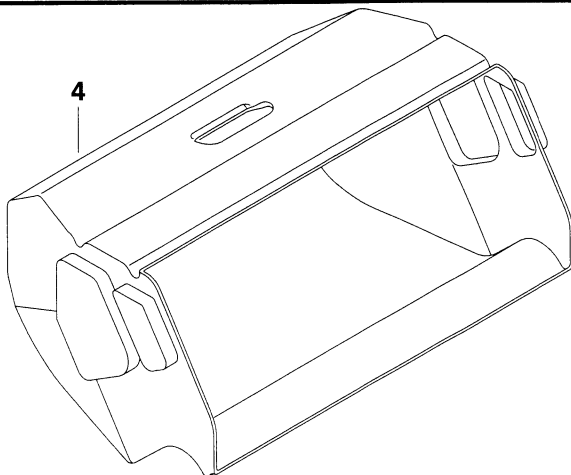
**REAR ROLLER 24.1**  
**PART NO. 892325 – 2" GROOVED**



**ROLLERS AND GRASS CATCHER  
CAN BE USED ON THE FOLLOWING  
CUTTING HEADS**  
**PART NO. 893591 (11-BLADE)**  
**PART NO. 893589 (9-BLADE) SHOWN**  
**PART NO. 893587 (7-BLADE)**

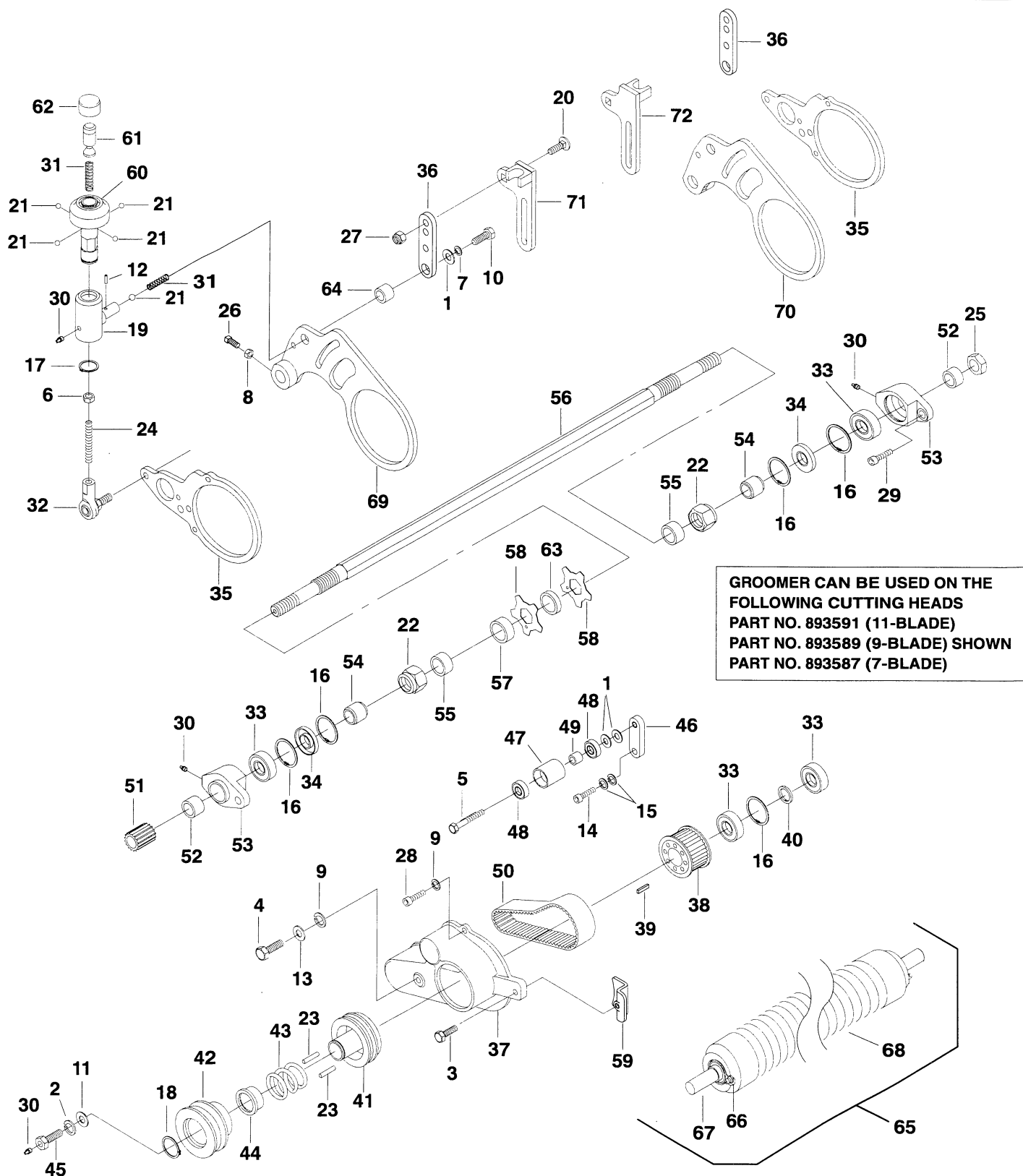
| Ref. No. | Part No. | Description                               | No. Req'd | Notes |
|----------|----------|-------------------------------------------|-----------|-------|
| 1        | 306966   | Pin, roll 1/8" x 3/4" .....               | 2         |       |
| 2        | 839057   | Shaft, rear roller .....                  | 1         |       |
| 3        | 839066   | Seal, oil 1.38" o.d. x .63" i.d. ....     | 2         |       |
| 4        | 839063   | Bearing, ball 1.38" o.d. x .63" i.d. .... | 2         |       |
| 5        | 839076   | Tube, roller (grooved) .....              | 1         |       |

**GRASS CATCHER**  
**PART NO. 892006**



| Ref. No. | Part No. | Description                      | No. Req'd | Notes |
|----------|----------|----------------------------------|-----------|-------|
| 1        | 302600   | Screw, 3/8-16 x 1 1/2" .....     | 2         |       |
| 2        | 800619   | Nut, 3/8-16 (nylon insert) ..... | 2         |       |
| 3        | 822474   | Spacer .....                     | 2         |       |
| 4        | 839072   | Catcher, grass .....             | 1         |       |
| 5        | 892007   | Bracket, catcher .....           | 2         |       |

**24.1 GROOMER ACCESSORY**  
**Part No. 892326 1/4" SPACING**  
**Part No. 892330 1/2" SPACING**

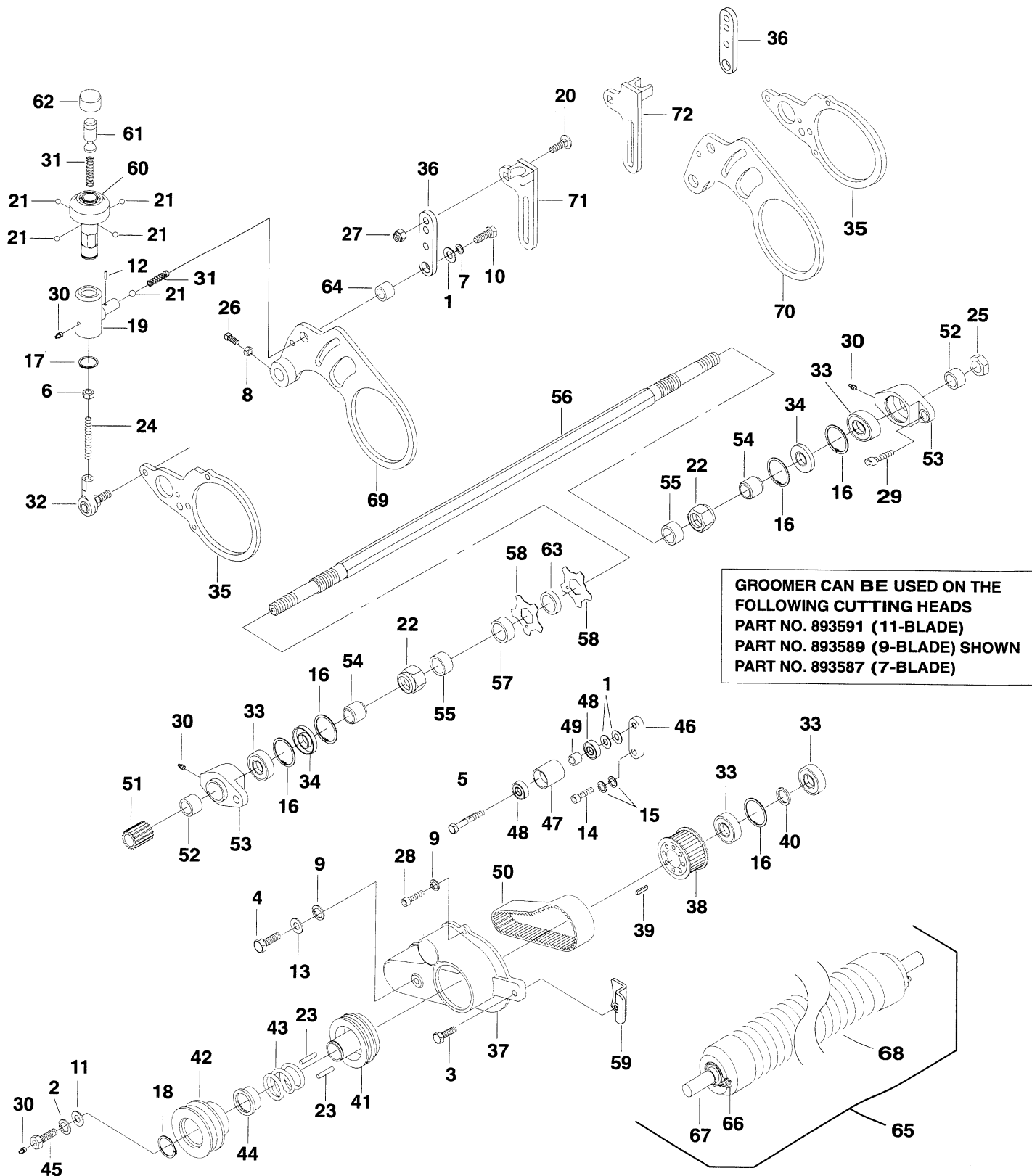


# GROOMER ACCESSORY 24.1

| Ref. No. | Part No. | Description                                       | No. Req'd | Notes |
|----------|----------|---------------------------------------------------|-----------|-------|
|          | 892326   | Groomer, 1/4" spacing .....                       | 1         |       |
|          | 892330   | Groomer, 1/2" spacing .....                       | 1         |       |
| 1        | 103867   | •Washer, 5/16" .....                              | 4         |       |
| 2        | 120177   | •Lockwasher, 3/8" .....                           | 1         |       |
| 3        | 300646   | •Screw, 1/4-20 x 3/4" .....                       | 1         |       |
| 4        | 302754   | •Screw, 1/4-20 x 2 1/4" .....                     | 1         |       |
| 5        | 304055   | •Screw, 5/16-18 x 1 3/8" .....                    | 1         |       |
| 6        | 306390   | •Nut, jam, 5/16-24 .....                          | 1         |       |
| 7        | 306325   | •Lockwasher, 5/16" .....                          | 3         |       |
| 8        | 306375   | •Nut, 1/4-20 .....                                | 2         |       |
| 9        | 306396   | •Lockwasher, spring, 1/4" .....                   | 2         |       |
| 10       | 306450   | •Screw, 5/16-18 x 3/4" .....                      | 2         |       |
| 11       | 306981   | •Washer, 3/8" .....                               | 1         |       |
| 12       | 307981   | •Pin, roll, 3/32" x 3/8" .....                    | 1         |       |
| 13       | 308090   | •Washer, 1/4" .....                               | 1         |       |
| 14       | 330747   | •Screw, socket head, grade 8, 5/16-18 x 3/4" .... | 1         |       |
| 15       | 548183   | •Lockwasher, 5/16" .....                          | 2         |       |
| 16       | 548323   | •Ring, internal retaining .....                   | 5         |       |
| 17       | 548324   | •Ring, external retaining .....                   | 1         |       |
| 18       | 548327   | •Ring, retaining .....                            | 1         |       |
| 19       | 892561   | •Housing, adjuster .....                          | 1         |       |
| 20       | 800085   | •Bolt, carriage, 5/16-18 x 1" .....               | 2         |       |
| 21       | 800130   | •Ball, chrome steel, 1/4" .....                   | 5         |       |
| 22       | 800508   | •Nut, stop, 3/4-16 .....                          | 2         |       |
| 23       | 800823   | •Pin, dowel, 3/16" x 1" .....                     | 2         |       |
| 24       | 841355   | •Stud, 5/16-24 x 1 1/2" .....                     | 1         |       |
| 25       | 800847   | •Nut, 5/8-18, left hand thread .....              | 1         |       |
| 26       | 800848   | •Screw, set, 1/4-20 x 1" .....                    | 2         |       |
| 27       | 800855   | •Nut, 5/16-18 .....                               | 2         |       |
| 28       | 800862   | •Screw, socket head, grade 8, 1/4-20 x 1/2" ....  | 2         |       |
| 29       | 800863   | •Screw, socket head, grade 8, 3/8-16 x 1/2" ....  | 2         |       |
| 30       | 807439   | •Fitting, lubrication, 1/4-28 .....               | 4         |       |
| 31       | 815012   | •Spring .....                                     | 2         |       |
| 32       | 831586   | •Ball joint .....                                 | 1         |       |
| 33       | 839063   | •Bearing, ball, 1.38" o.d. x .63" i.d. ....       | 4         |       |
| 34       | 839064   | •Seal, oil, 1.38" o.d. x .88" i.d. ....           | 2         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

**24.1 GROOMER ACCESSORY**  
**Part No. 892326 1/4" SPACING**  
**Part No. 892330 1/2" SPACING**

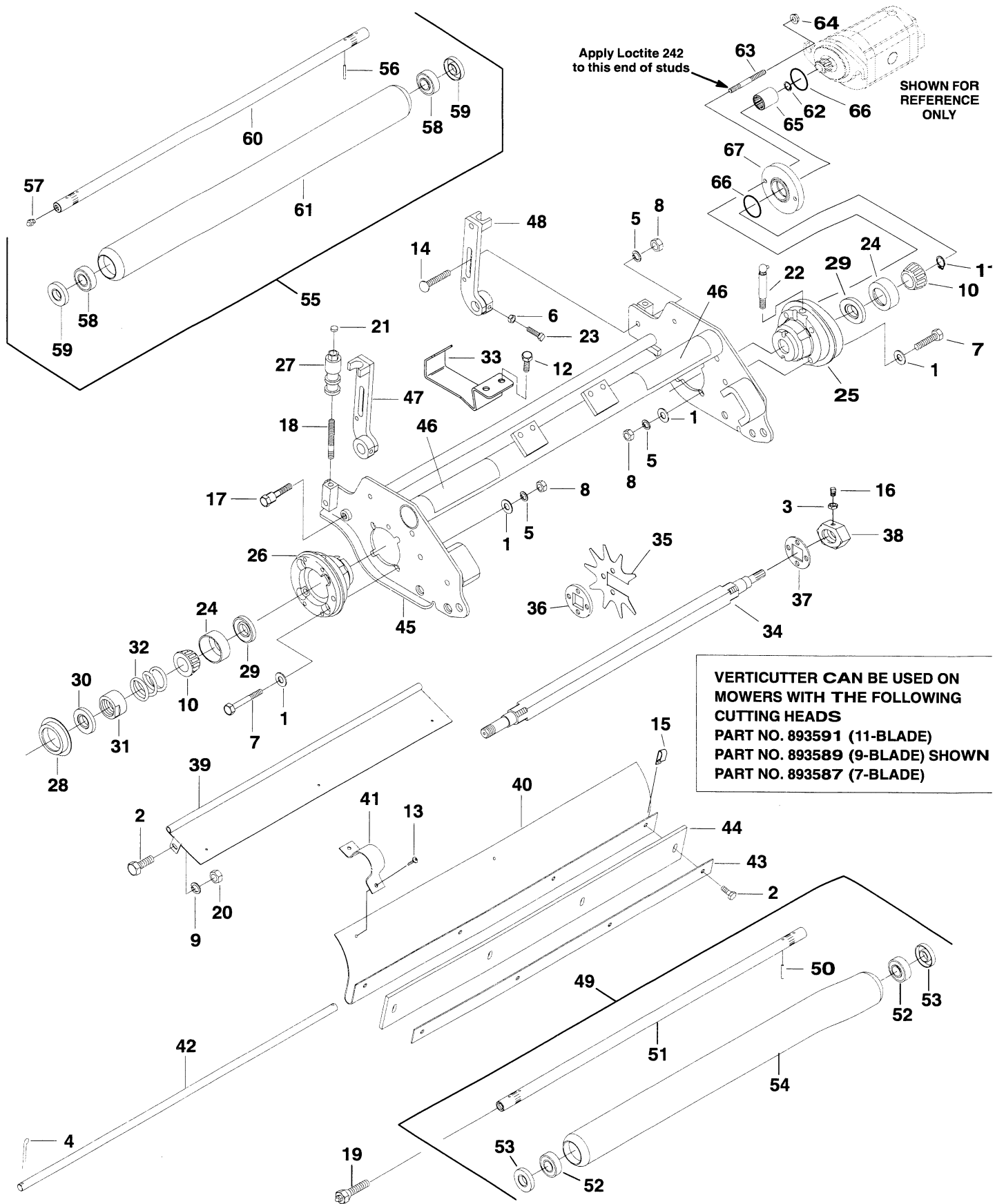


# GROOMER ACCESSORY 24.1

| Ref. No. | Part No. | Description                                       | No. Req'd | Notes                                                          |
|----------|----------|---------------------------------------------------|-----------|----------------------------------------------------------------|
| 35       | 839448   | •Bracket, groomer .....                           | 2         | Uses one on both ends with 1/4"<br>41 for 1/2" and 81 for 1/4" |
| 36       | 841356   | •Link, connector .....                            | 2         |                                                                |
| 37       | 839452   | •Cover, belt .....                                | 1         |                                                                |
| 38       | 839453   | •Pulley, 32 tooth .....                           | 1         |                                                                |
| 39       | 839454   | •Key, 1/8" x 1/8" x 3/8" .....                    | 1         |                                                                |
| 40       | 839455   | •Spacer, bearing .....                            | 1         |                                                                |
| 41       | 839456   | •Hub, clutch drive .....                          | 1         |                                                                |
| 42       | 839457   | •Knob, clutch .....                               | 1         |                                                                |
| 43       | 839458   | •Spring, compression .....                        | 1         |                                                                |
| 44       | 839459   | •Retainer, knob .....                             | 1         |                                                                |
| 45       | 839461   | •Bolt, lube fitting, 3/8-24 .....                 | 1         |                                                                |
| 46       | 839462   | •Arm, idler pulley .....                          | 1         |                                                                |
| 47       | 839463   | •Pulley, idler .....                              | 1         |                                                                |
| 48       | 839464   | •Bearing, ball, .866" o.d. x .314" i.d. ....      | 2         |                                                                |
| 49       | 839465   | •Spacer, bearing, .433" .....                     | 1         |                                                                |
| 50       | 839466   | •Belt, 62 tooth .....                             | 1         |                                                                |
| 51       | 839467   | •Pulley, 16 tooth .....                           | 1         |                                                                |
| 52       | 839468   | •Spacer, 19/32" .....                             | 2         |                                                                |
| 53       | 839469   | •Housing, bearing .....                           | 2         |                                                                |
| 54       | 839470   | •Sleeve, seal .....                               | 2         |                                                                |
| 55       | 839471   | •Spacer, 1/2" .....                               | 2         |                                                                |
| 56       | 839472   | •Shaft, groomer .....                             | 1         |                                                                |
| 57       | 839473   | •Spacer, .468" (1/2" groomer) .....               | 42        |                                                                |
| 58       | 839474   | •Blade, groomer .....                             | As Req'd  |                                                                |
| 59       | 841331   | •Retainer .....                                   | 1         |                                                                |
| 60       | 892562   | •Shaft, adjuster .....                            | 1         |                                                                |
| 61       | 839484   | •Button, release .....                            | 1         |                                                                |
| 62       | 839485   | •Cap .....                                        | 1         |                                                                |
| 63       | 839487   | •Spacer, .218" (1/4" groomer) .....               | 80        |                                                                |
| 64       | 839488   | •Spacer, link .....                               | 2         | Not Illustrated                                                |
|          | 840652   | •Lubricant, anti-seize, 1 oz. ....                | 1         |                                                                |
| 65       | 892004   | •Roller, grooved aluminum, 2 1/2", complete ..... | 1         |                                                                |
| 66       | 807439   | ••Fitting, lubrication, 1/4-28 .....              | 2         |                                                                |
| 67       | 832054   | ••Bearing, ball .....                             | 2         |                                                                |
| 68       | 839078   | ••Roller, grooved, 2 1/2" .....                   | 1         |                                                                |
| 69       | 893268   | •Bracket, roller, left .....                      | 1         |                                                                |
| 70       | 893269   | •Bracket, roller, right .....                     | 1         |                                                                |
| 71       | 892555   | •Link, adjuster, left .....                       | 1         |                                                                |
| 72       | 892556   | •Link, adjuster, right .....                      | 1         |                                                                |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 24.1 VERTICUTTER ACCESSORY PART NO. 893592

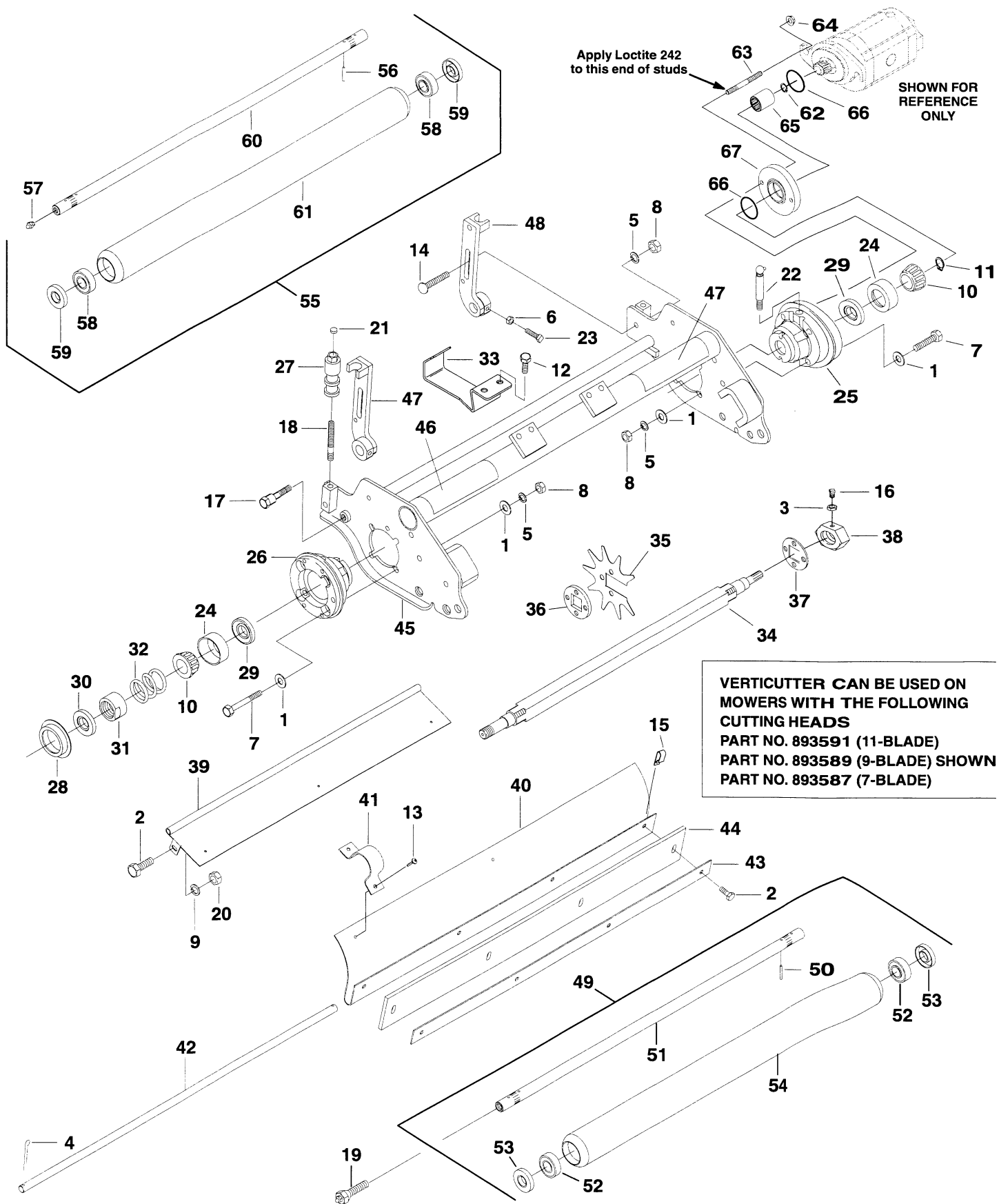


**VERTICUTTER ACCESSORY 24.1**  
**PART NO. 893592**

| Ref. No. | Part No. | Description                                  | No. Req'd | Notes |
|----------|----------|----------------------------------------------|-----------|-------|
| 1        | 103867   | Washer, 5/16" .....                          | 16        |       |
| 2        | 300646   | Screw, 1/4-20 x 3/4" .....                   | 6         |       |
| 3        | 302103   | Nut, jam, 5/16-18 .....                      | 2         |       |
| 4        | 304636   | Pin, cotter, 1/8" x 1 1/8" .....             | 2         |       |
| 5        | 306325   | Lockwasher, 5/16" .....                      | 10        |       |
| 6        | 306375   | Nut, 1/4-20 .....                            | 2         |       |
| 7        | 306501   | Screw, 5/16-18 x 1 1/2" .....                | 8         |       |
| 8        | 306932   | Nut, 5/16-18 .....                           | 10        |       |
| 9        | 308090   | Washer, 1/4" .....                           | 2         |       |
| 10       | 385174   | Cone, tapered roller bearing, 3/4" i.d. .... | 2         |       |
| 11       | 548324   | Ring, retaining, external .....              | 1         |       |
| 12       | 548604   | Screw, flangelock, 5/16-18 x 3/4" .....      | 2         |       |
| 13       | 800149   | Screw, self tapping, #10 x 3/8" P.T.H. ....  | 6         |       |
| 14       | 800354   | Bolt, carriage, 5/16-18 x 1 3/4" .....       | 2         |       |
| 15       | 800449   | Nut, speed, 1/4-20 .....                     | 4         |       |
| 16       | 800555   | Screw, set, 5/16-18 x 5/8" .....             | 2         |       |
| 17       | 800812   | Bolt, shoulder, 3/8-16 x 1" .....            | 2         |       |
| 18       | 800806   | Stud, 5/16-18 x 2 3/4" .....                 | 2         |       |
| 19       | 800809   | Bolt, lug, lube fitting, 7/16-20 .....       | 2         |       |
| 20       | 800814   | Nut, stop, 1/4-20 .....                      | 2         |       |
| 21       | 800815   | Plug, expansion, aluminum, 3/8" .....        | 2         |       |
| 22       | 800816   | Fitting, lubrication, 1/8" NPT, 90° .....    | 2         |       |
| 23       | 800848   | Screw, set, 1/4-20 x 1 .....                 | 2         |       |
| 24       | 808088   | Cup, tapered roller bearing .....            | 2         |       |
| 25       | 839035   | Housing, bearing, right .....                | 1         |       |
| 26       | 841949   | Housing, bearing, left .....                 | 1         |       |
| 27       | 841991   | Knob, adjustment .....                       | 2         |       |
| 28       | 839053   | Retainer, seal, nylon .....                  | 1         |       |
| 29       | 839064   | Seal, oil, 1.38" o.d. x .88" i.d. ....       | 2         |       |
| 30       | 839065   | Seal, oil, 1.56" o.d. x 1.00" i.d. ....      | 1         |       |
| 31       | 839067   | Nut, bearing adjustment, 3/4-16 .....        | 1         |       |
| 32       | 839068   | Spring, compression .....                    | 1         |       |
| 33       | 842404   | Hook, stop .....                             | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 24.1 VERTICUTTER ACCESSORY PART NO. 893592



**VERTICUTTER ACCESSORY 24.1**  
**PART NO. 893592**

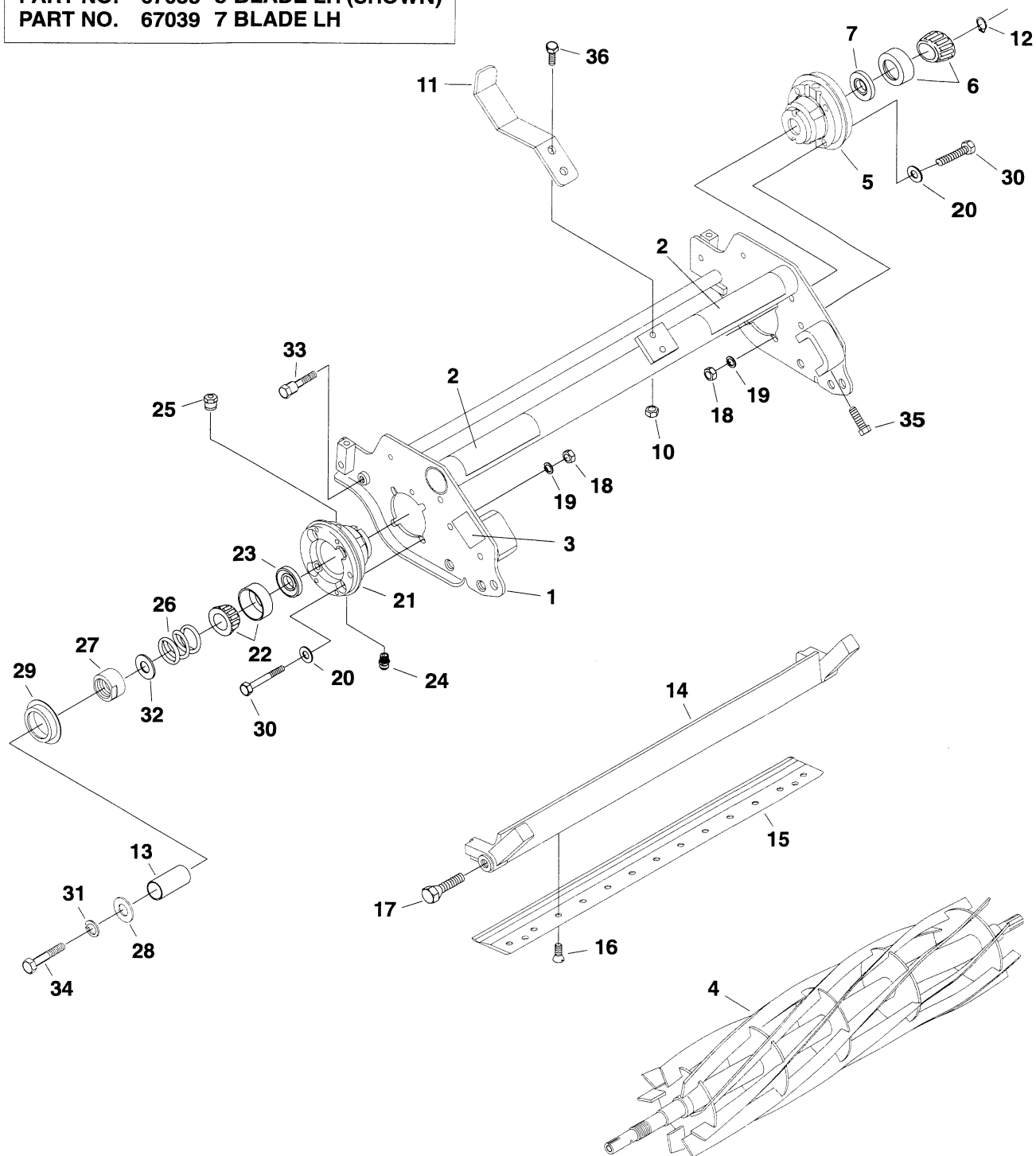
| Ref. No. | Part No. | Description                                | No. Req'd | Notes                          |
|----------|----------|--------------------------------------------|-----------|--------------------------------|
| 34       | 841358   | Shaft, reel .....                          | 1         | Must have to mount these heads |
| 35       | 841359   | Blade, verticut .....                      | 26        |                                |
| 36       | 841360   | Spacer, blade .....                        | 76        |                                |
| 37       | 841361   | Collar, blade .....                        | 2         |                                |
| 38       | 841362   | Nut, jam, 1 1/8-12 .....                   | 2         |                                |
| 39       | 841390   | Shield, front .....                        | 1         |                                |
| 40       | 841391   | Shield, rear .....                         | 1         |                                |
| 41       | 841392   | Clip .....                                 | 3         |                                |
| 42       | 841393   | Rod .....                                  | 1         |                                |
| 43       | 841394   | Retainer .....                             | 1         |                                |
| 44       | 841395   | Scraper .....                              | 1         |                                |
| 45       | 892009   | Frame, decal & .....                       | 1         |                                |
| 46       | 869081   | •Decal, danger hands and feet .....        | 2         |                                |
| 47       | 891998   | Bracket, front roller, left .....          | 1         |                                |
| 48       | 891999   | Bracket, front roller, right .....         | 1         |                                |
| 49       | 892000   | Roller, rear, 2" smooth .....              | 1         |                                |
| 50       | 306966   | •Pin, roll, 1/8" x 3/4" .....              | 2         |                                |
| 51       | 839057   | •Shaft, roller .....                       | 1         |                                |
| 52       | 839063   | •Bearing, ball 1.38" o.d. x .63" i.d. .... | 2         |                                |
| 53       | 839066   | •Seal, oil, 1.38" o.d. x .63" i.d. ....    | 2         |                                |
| 54       | 892005   | •Tube, roller .....                        | 1         |                                |
| 55       | 892323   | Roller, front, 2" smooth .....             | 1         |                                |
| 56       | 306966   | •Pin, roll, 1/8" x 3/4" .....              | 2         |                                |
| 57       | 807439   | •Fitting, lubrication, 1/4-28 .....        | 2         |                                |
| 58       | 839063   | •Bearing, ball 1.38" o.d. x .63" i.d. .... | 2         |                                |
| 59       | 839066   | •Seal, oil, 1.38" o.d. x .63" i.d. ....    | 2         |                                |
| 60       | 839075   | •Shaft, front roller .....                 | 1         |                                |
| 61       | 892005   | •Tube, roller .....                        | 1         |                                |
|          | 894993   | Kit, motor mounting .....                  | 1         |                                |
| 62       | 800810   | •Ring, retaining, internal .....           | 1         |                                |
| 63       | 800904   | •Stud, 5/16-18 x 2" .....                  | 2         |                                |
| 64       | 800907   | •Nut, 5/16-18, flange .....                | 2         |                                |
| 65       | 839054   | •Coupling, drive .....                     | 1         |                                |
| 66       | 839062   | •Seal, o-ring, 1.88 i.d. x .06 .....       | 2         |                                |
| 67       | 841725   | •Adapter, motor .....                      | 1         |                                |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 CUTTING HEADS

### CUTTING HEAD ACCESSORIES

PART NO. 67037 11 BLADE LH  
PART NO. 67038 9 BLADE LH (SHOWN)  
PART NO. 67039 7 BLADE LH



## CUTTING HEADS 25.1

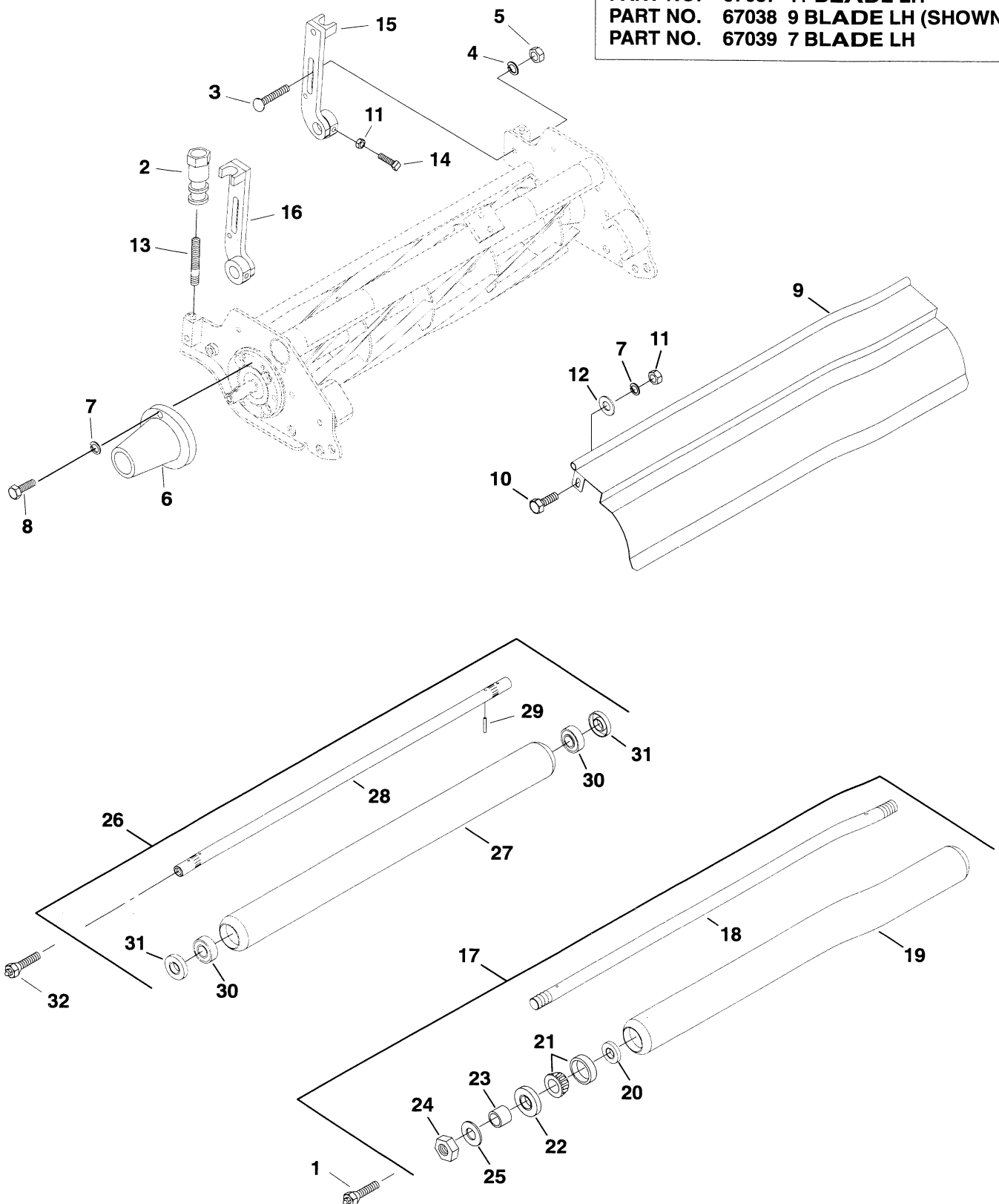
| Ref. No. | Part No.  | Description                               | No. Req'd | Notes        |
|----------|-----------|-------------------------------------------|-----------|--------------|
| 1        | 5003654   | Frame, reel .....                         | 1         |              |
| 2        | 361877    | •Decal, danger .....                      | 2         |              |
| 3        | 1000997   | •Decal, warning .....                     | 1         |              |
| 4        | 5001102   | Reel, 11 blade, left hand .....           | 1         |              |
|          | <i>or</i> |                                           |           |              |
|          | 5001101   | Reel, 9 blade, left hand .....            | 1         |              |
|          | <i>or</i> |                                           |           |              |
|          | 5001099   | Reel, 7 blade, left hand .....            | 1         |              |
| 5        | 1004756   | Housing, bearing .....                    | 1         |              |
| 6        | 500534    | •Bearing, cup and cone .....              | 1         |              |
| 7        | 336962    | •Seal, grease .....                       | 1         |              |
| 8        | 471214    | •Fitting, grease .....                    | 1         |              |
| 9        | 471240    | •Fitting, vent .....                      | 1         |              |
| 10       | 445795    | Nut, 5/16-18 spirallock flange .....      | 2         |              |
| 11       | 3010293   | Stop, mower .....                         | 1         |              |
| 12       | 458013    | Ring, snap .....                          | 1         |              |
| 13       | 367164    | Spacer .....                              | 1         |              |
| 14       | 5000415   | Bedknife backing .....                    | 1         |              |
| 15       | 5002771   | Bedknife, fairway .....                   | 1         | 7 Blade      |
|          | <i>or</i> |                                           |           |              |
|          | 503477    | Bedknife, high profile .....              | 1         | 9 & 11 Blade |
|          | <i>or</i> |                                           |           |              |
|          | 503478    | Bedknife, low profile .....               | 1         | 9 & 11 Blade |
|          | <i>or</i> |                                           |           |              |
|          | 503479    | Bedknife, tournament .....                | 1         | 9 & 11 Blade |
| 16       | 3009138   | Screw, 1/4-20 x 1/2" .....                | 13        |              |
| 17       | 315298    | Bolt, 7/16 x 3/4" .....                   | 2         |              |
| 18       | 446136    | Lockwasher, 5/16" .....                   | 8         |              |
| 19       | 443106    | Nut, 5/16-18 .....                        | 8         |              |
| 20       | 453009    | Washer, 5/16" .....                       | 4         |              |
| 21       | 1000480   | Housing, bearing .....                    | 1         |              |
|          | 2000060   | •Housing .....                            | 1         |              |
| 22       | 500534    | •Bearing, cup and cone .....              | 1         |              |
| 23       | 336962    | •Seal, grease .....                       | 1         |              |
| 24       | 471214    | •Fitting, grease .....                    | 1         |              |
| 25       | 471240    | •Fitting, vent .....                      | 1         |              |
| 26       | 5002151   | Spring, compression .....                 | 1         |              |
| 27       | 364900    | Nut, reel .....                           | 1         |              |
| 28       | 453011    | Washer, 3/8" .....                        | 1         |              |
| 29       | 163892    | Seal .....                                | 1         |              |
| 30       | 400192    | Screw, 5/16-18 x 1 1/2" .....             | 8         |              |
| 31       | 446142    | Lockwasher, 3/8" .....                    | 4         |              |
| 32       | 304745    | Washer .....                              | 1         |              |
| 33       | 365246    | Bolt, shoulder .....                      | 2         |              |
| 34       | 400294    | Screw, 3/8-24 x 1" .....                  | 1         |              |
| 35       | 412503    | Screw, 3/8-16 x 1 1/4", square head ..... | 4         |              |
| 36       | 400184    | Screw, 5/16-18 x 3/4" .....               | 2         |              |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 REAR ROLLERS

USED ON CUTTING HEAD ACCESSORIES

PART NO. 67037 11 BLADE LH  
 PART NO. 67038 9 BLADE LH (SHOWN)  
 PART NO. 67039 7 BLADE LH

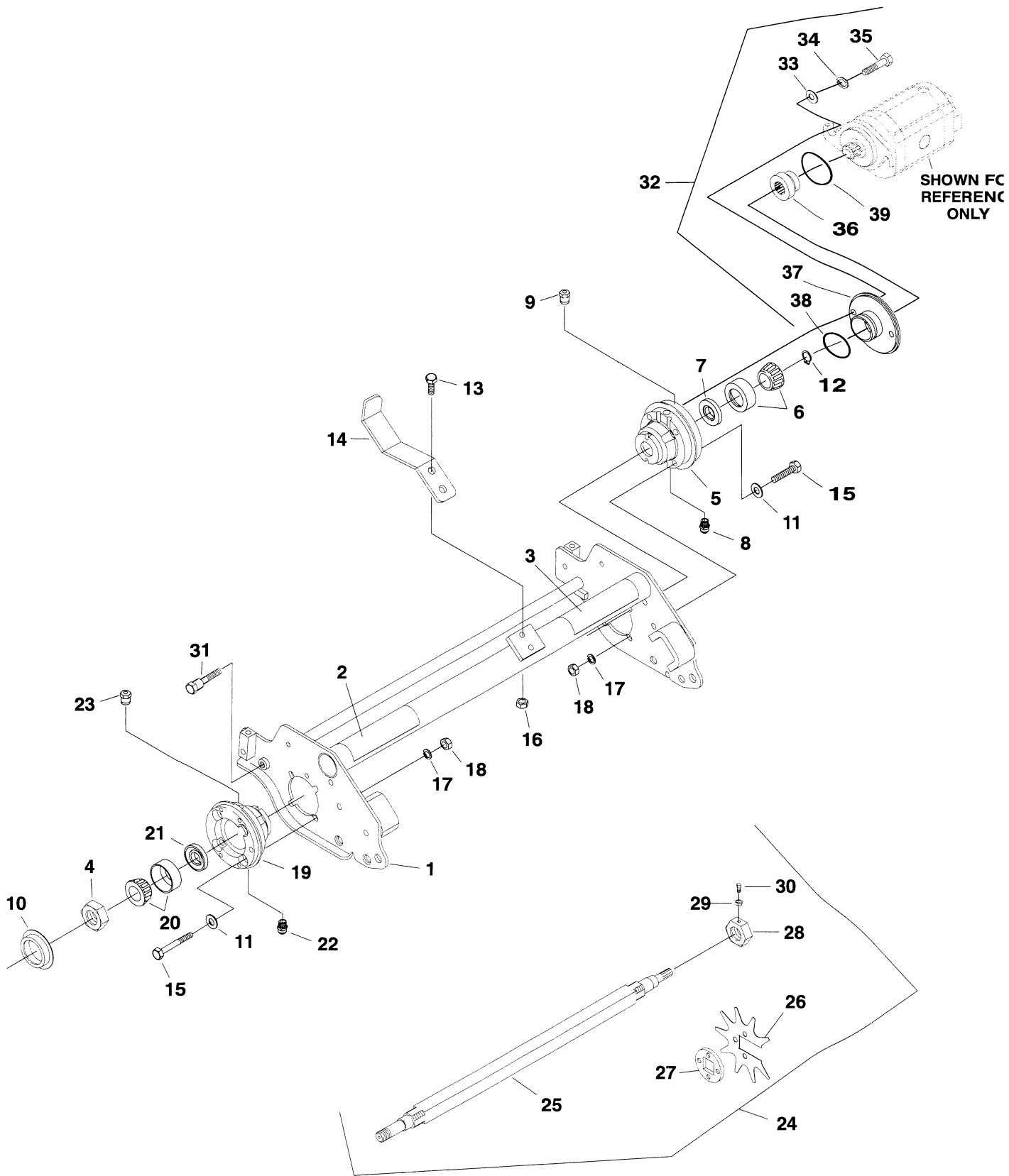


# REAR ROLLERS 25.1

| Ref. No. | Part No. | Description                            | No. Req'd | Notes              |
|----------|----------|----------------------------------------|-----------|--------------------|
| 1        | 1002224  | Zerk bolt                              | 2         | 7 Blade reels only |
| 2        | 3005692  | Knob, front roller adjusting           | 2         |                    |
| 3        | 441674   | Bolt, carriage, 5/16-18 x 1 3/4"       | 2         |                    |
| 4        | 446136   | Lockwasher, 5/16                       | 2         |                    |
| 5        | 443106   | Nut, 5/16-18                           | 2         |                    |
| 6        | 2000065  | Casting, counterweight                 | 1         |                    |
| 7        | 446130   | Lockwasher, 1/4"                       | 4         |                    |
| 8        | 400110   | Screw, 1/4-20 x 7/8"                   | 2         |                    |
| 9        | 390950.2 | Shield, reel                           | 1         |                    |
| 10       | 404018   | Screw, truss head, 1/4-20 x 3/4"       | 2         |                    |
| 11       | 443102   | Nut, 1/4-20                            | 4         |                    |
| 12       | 453023   | Washer, 1/4                            | 2         |                    |
| 13       | 343616   | Stud                                   | 2         |                    |
| 14       | 352737   | Screw, set, square head, 1/4-20 x 7/8" | 2         |                    |
| 15       | 3008438  | Bracket, roller                        | 1         | 7 Blade reels only |
| 16       | 3008439  | Bracket, roller                        | 1         |                    |
| 17       | 1000770  | Roller, rear                           | 1         |                    |
| 18       | 3001654  | •Shaft, roller                         | 1         |                    |
| 19       | 3001655  | •Tube, roller                          | 1         |                    |
| 20       | 3001656  | •Seal, grease                          | 2         |                    |
| 21       | 5000625  | •Bearing, cup and cone                 | 2         |                    |
| 22       | 3000983  | •Seal, grease                          | 2         |                    |
| 23       | 3001762  | •Sleeve, wear                          | 2         |                    |
| 24       | 445718   | •Locknut, stover, 5/16-18              | 2         |                    |
| 25       | 3000698  | •Washer                                | 2         |                    |
| 26       | 162916   | Roller, rear                           | 1         | 9 & 11 Blade reels |
| 27       | 5002814  | •Tube, roller                          | 1         |                    |
| 28       | 345369   | •Shaft                                 | 1         |                    |
| 29       | 461359   | •Pin, roll, 1/8 x 3/4"                 | 2         |                    |
| 30       | 303558   | •Bearing                               | 2         | 9 & 11 Blade reels |
| 31       | 305115   | •Seal                                  | 2         |                    |
| 32       | 1002226  | Zerk bolt                              | 2         |                    |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 VERTICAL MOWER PRODUCT NO. 67041



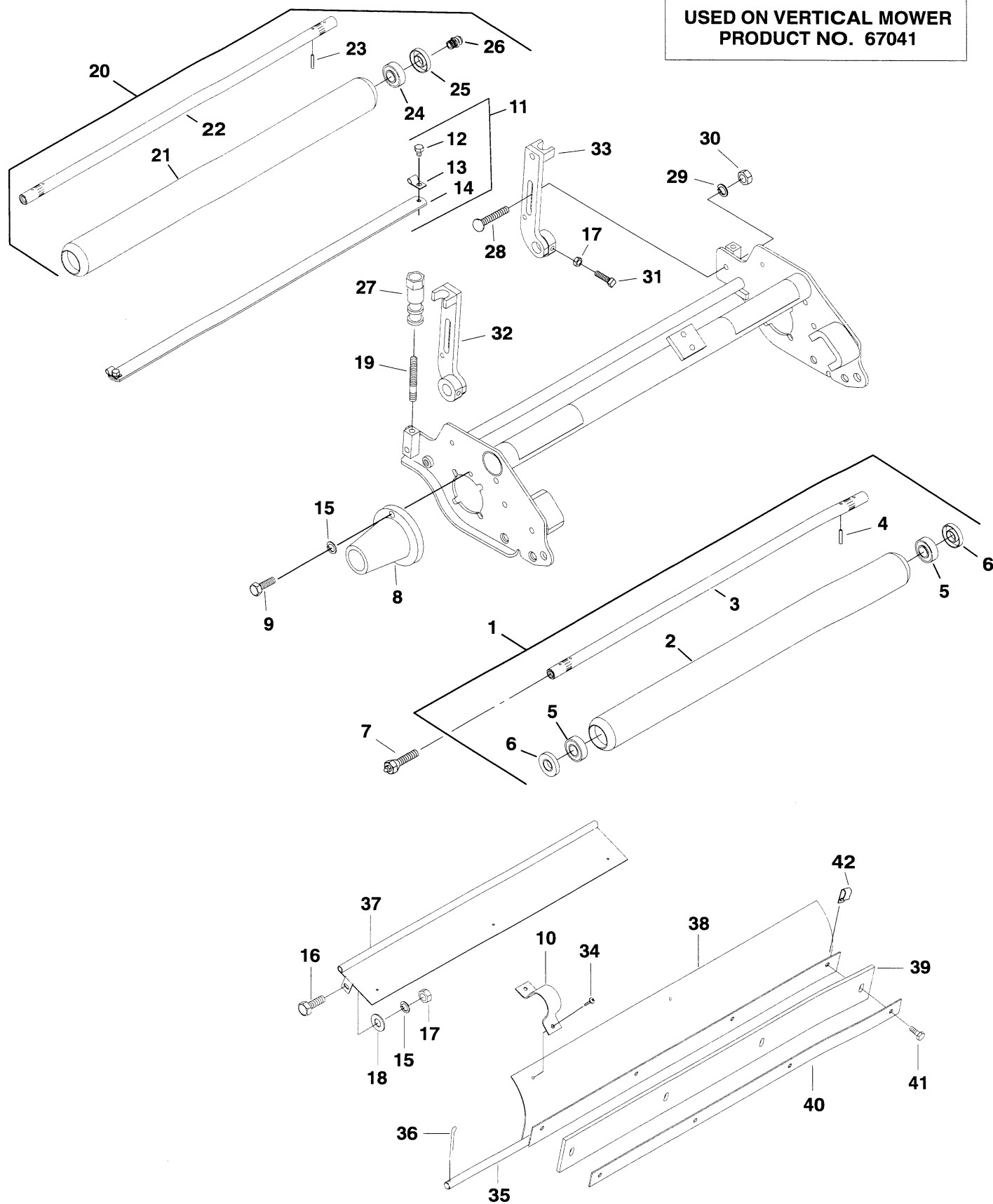
**VERTICAL MOWER 25.1**  
**PRODUCT NO. 67041**

| Ref. No. | Part No. | Description                               | No. Req'd | Notes                             |
|----------|----------|-------------------------------------------|-----------|-----------------------------------|
| 1        | 5003654  | Frame, reel .....                         | 1         | Must have to mount vertical mower |
| 2        | 361877   | •Decal, danger .....                      | 2         |                                   |
| 3        | 351738   | •Decal, caution .....                     | 1         |                                   |
| 4        | 444742   | Locknut, 3/4-16 hex jam .....             | 1         |                                   |
| 5        | 1004756  | Housing, bearing .....                    | 1         |                                   |
| 6        | 500534   | •Bearing, cup and cone .....              | 1         |                                   |
| 7        | 336962   | •Seal, grease .....                       | 1         |                                   |
| 8        | 471214   | •Fitting, grease .....                    | 1         |                                   |
| 9        | 471240   | •Fitting, vent .....                      | 1         |                                   |
| 10       | 1003467  | Seal .....                                | 1         |                                   |
| 11       | 453009   | Washer, 5/16" .....                       | 4         |                                   |
| 12       | 458013   | Ring, snap .....                          | 1         |                                   |
| 13       | 400184   | Screw, 5/16-18 x 3/4" .....               | 2         |                                   |
| 14       | 3010293  | Stop, mower .....                         | 1         |                                   |
| 15       | 400192   | Screw, 5/16-18 x 1 1/2" .....             | 8         |                                   |
| 16       | 445795   | Nut, 5/16-18 spiralock flange .....       | 2         |                                   |
| 17       | 446136   | Lockwasher, 5/16" .....                   | 8         |                                   |
| 18       | 443106   | Nut, 5/16-18 .....                        | 8         |                                   |
| 19       | 1000480  | Housing, bearing .....                    | 1         |                                   |
|          | 2000060  | •Housing .....                            | 1         |                                   |
| 20       | 500534   | •Bearing, cup and cone .....              | 1         |                                   |
| 21       | 336962   | •Seal, grease .....                       | 1         |                                   |
| 22       | 471214   | •Fitting, grease .....                    | 1         |                                   |
| 23       | 471240   | •Fitting, vent .....                      | 1         |                                   |
| 24       | 1002560  | Vertical mower .....                      | 1         |                                   |
| 25       | 131161   | •Assembly, shaft and collar .....         | 1         |                                   |
| 26       | 335449   | •Blade .....                              | 26        |                                   |
| 27       | 352221   | •Spacer, blade .....                      | 77        |                                   |
| 28       | 352437   | •Nut, blade clamp .....                   | 1         |                                   |
| 29       | 443106   | •Nut, 5/16-18 .....                       | 1         |                                   |
| 30       | 412017   | •Screw, 5/16-18 x 3/4", square head ..... | 1         |                                   |
| 31       | 365246   | Bolt, shoulder .....                      | 2         |                                   |
| 32       | 894991   | Kit, motor adapter .....                  | 1         |                                   |
| 33       | 103867   | •Washer, 5/16 .....                       | 2         |                                   |
| 34       | 306325   | •Lockwasher, 5/16 .....                   | 2         |                                   |
| 35       | 306501   | •Screw, 5/16-18 x 1 1/2" .....            | 2         |                                   |
| 36       | 337370   | •Coupling, drive .....                    | 1         |                                   |
| 37       | 845278   | •Adapter, motor .....                     | 1         |                                   |
| 38       | 845279   | •Seal, o-ring, 1.49 i.d. x .07 .....      | 1         |                                   |
| 39       | 845280   | •Seal, o-ring, 1.99 i.d. x .07 .....      | 1         |                                   |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 ROLLERS AND SCRAPERS FOR VERTICAL MOWER

USED ON VERTICAL MOWER  
PRODUCT NO. 67041



# ROLLERS AND SCRAPERS 25.1 FOR VERTICAL MOWER

| Ref. No. | Part No. | Description                                     | No. Req'd | Notes        |
|----------|----------|-------------------------------------------------|-----------|--------------|
| 1        | 162916   | Roller, rear .....                              | 1         | Not Serviced |
| 2        | 5002814  | •Tube, roller .....                             | 1         |              |
| 3        | 345369   | •Shaft .....                                    | 1         |              |
| 4        | 461359   | •Pin, roll, 1/8 x 3/4" .....                    | 2         |              |
| 5        | 303558   | •Bearing .....                                  | 2         |              |
| 6        | 305115   | •Seal .....                                     | 2         |              |
| 7        | 1002226  | Zerk bolt .....                                 | 2         |              |
| 8        | 2000065  | Casting, counterweight .....                    | 1         |              |
| 9        | 400110   | Screw, 1/4-20 x 7/8" .....                      | 2         |              |
| 10       | 351520   | Clip .....                                      | 3         |              |
| 11       | 102024   | Scraper, front roller .....                     | 1         |              |
| 12       | 407586   | •Screw, 1/4-20 x 5/8", pan head w/lockwasher .. | 2         |              |
| 13       |          | •Clamp .....                                    | 2         |              |
| 14       |          | •Bar, scraper .....                             | 2         |              |
| 15       | 446130   | Lockwasher, 1/4" .....                          | 4         |              |
| 16       | 404018   | Screw, truss head, 1/4-20 x 3/4" .....          | 2         |              |
| 17       | 443102   | Nut, 1/4-20 .....                               | 4         |              |
| 18       | 453023   | Washer, 1/4 .....                               | 2         |              |
| 19       | 343616   | Stud .....                                      | 2         |              |
| 20       | 162917   | Roller, front .....                             | 1         |              |
| 21       |          | •Tube, roller .....                             | 1         |              |
| 22       | 305114   | •Shaft .....                                    | 1         |              |
| 23       | 461359   | •Pin, roll, 1/8 x 3/4" .....                    | 2         |              |
| 24       | 303558   | •Bearing .....                                  | 2         |              |
| 25       | 305115   | •Seal .....                                     | 2         |              |
| 26       | 471214   | •Fitting, grease .....                          | 2         |              |
| 27       | 3005692  | Knob, front roller adjusting .....              | 2         |              |
| 28       | 441674   | Bolt, carriage, 5/16-18 x 1 3/4" .....          | 2         |              |
| 29       | 446136   | Lockwasher, 5/16 .....                          | 2         |              |
| 30       | 443106   | Nut, 5/16-18 .....                              | 2         |              |
| 31       | 352737   | Screw, set, square head, 1/4-20 x 7/8" .....    | 2         |              |
| 32       | 3008438  | Bracket, roller .....                           | 1         |              |
| 33       | 3008439  | Bracket, roller .....                           | 1         |              |
| 34       | 409020   | Screw, #10 x 3/8", self tap, slotted .....      | 6         |              |
| 35       | 351521   | Rod .....                                       | 1         |              |
| 36       | 460026   | Pin, cotter .....                               | 2         |              |
| 37       | 3009922  | Shield, front grass .....                       | 1         |              |
| 38       | 3005373  | Shield, rear grass .....                        | 1         |              |
| 39       | 351522   | Scraper .....                                   | 1         |              |
| 40       | 351526   | Retainer, scraper .....                         | 1         |              |
| 41       | 400106   | Screw, 1/4-20 x 5/8" .....                      | 4         |              |
| 42       | 445260   | Nut, speed .....                                | 4         |              |

\* INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

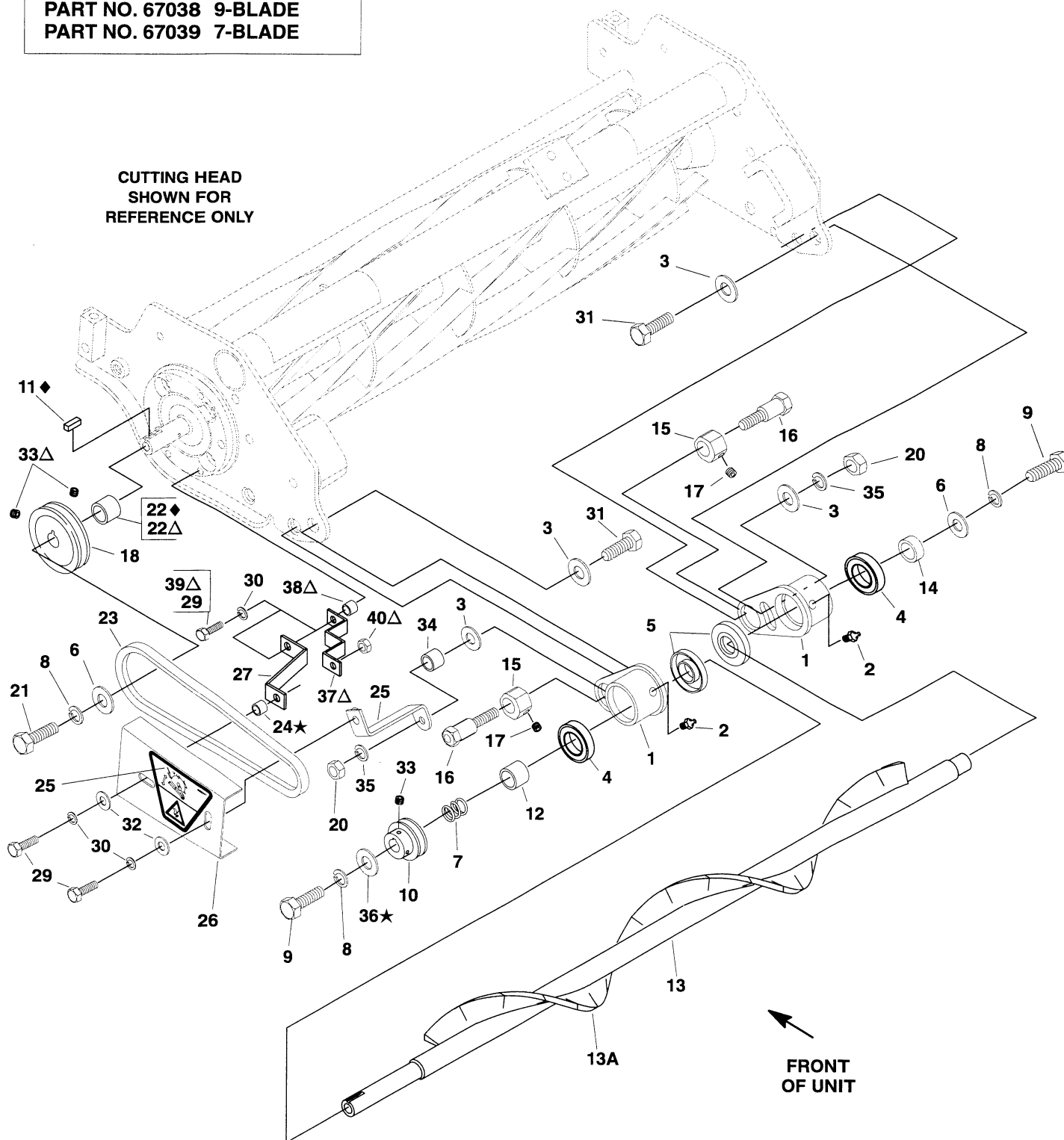
## 25.1 ROTARY REAR BRUSH

### PRODUCT NO. 68643

ROTARY REAR BRUSH CAN BE  
USED ON THE FOLLOWING  
CUTTING HEADS:

PART NO. 67037 11-BLADE  
PART NO. 67038 9-BLADE  
PART NO. 67039 7-BLADE

- ◆ USE WITH 5/8" DIA. REEL SHAFT
- △ USE WITH 1/2" DIA. REEL SHAFT
- ★ USE WITH TURF GROOMER
- ▼ USE WITH HEAVY DUTY REAR ROLLER



**ROTARY REAR BRUSH 25.1**  
**PRODUCT NO. 68643**

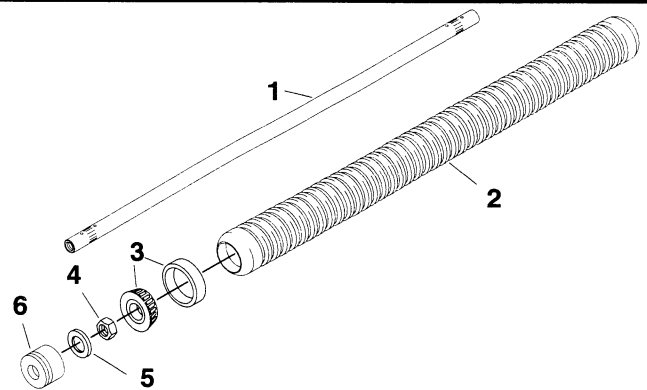
| Ref. No. | Part No. | Description                           | No. Req'd | Notes                           |
|----------|----------|---------------------------------------|-----------|---------------------------------|
| 1        | 3007975  | Bracket, bearing housing .....        | 2         |                                 |
| 2        | 471514   | Fitting, grease, 1/4-28 .....         | 2         |                                 |
| 3        | 452006   | Washer, 5/16" .....                   | 4         |                                 |
| 4        | 365229   | Bearing w/seal .....                  | 2         |                                 |
| 5        | 338763   | Seal .....                            | 2         |                                 |
| 6        | 453011   | Washer, 3/8" .....                    | 2         |                                 |
| 7        | 363818   | Spring .....                          | 1         |                                 |
| 8        | 446142   | Lockwasher, 3/8" .....                | 3         |                                 |
| 9        | 400258   | Screw, 3/8-16 x 3/4" .....            | 2         |                                 |
| 10       | 340836   | Pulley, brush shaft .....             | 1         |                                 |
| 11       | 363016   | Key, 1/8 x 1/8 x 1/2", parallel ..... | 2         |                                 |
| 12       | 365294   | Spacer, 1 1/8" long .....             | 1         |                                 |
| 13       | 5002463  | Brush assembly .....                  | 1         |                                 |
| 13A      | 340780   | Brush replacement .....               | 1         |                                 |
| 14       | 365293   | Spacer, 9/64" long .....              | 1         |                                 |
| 15       | 3008039  | Nut, eccentric adjusting .....        | 2         |                                 |
| 16       | 1002228  | Bolt, roller mounting .....           | 2         |                                 |
| 16       | 1002225  | ▼Bolt, roller mounting .....          | 2         | Use with heavy duty rear roller |
| 17       | 415509   | Screw, set, 1/4-20 x 1/4" .....       | 2         |                                 |
| 18       | 338758   | Pulley, reel shaft .....              | 1         |                                 |
| 19       | 400188   | Screw, 5/16-18 x 1" .....             | 1         |                                 |
| 20       | 443106   | Nut, 5/16-18 .....                    | 2         |                                 |
| 21       | 400298   | Screw, 3/8-24 x 1" .....              | 1         |                                 |
| 22       | 365295   | ◆Spacer, 27/32" long .....            | 1         | Use with 5/8" dia. reel shaft   |
| 22       | 365302   | △Spacer, pulley .....                 | 1         | Use with 1/2" dia. reel shaft   |
| 23       | 364120   | Belt .....                            | 1         |                                 |
| 24       | 3005971  | ★Spacer, short .....                  | 1         | Use with turf groomer           |
| 25       | 1000997  | Decal .....                           | 1         |                                 |
| 26       | 5001067  | Shield, belt .....                    | 1         |                                 |
| 27       | 1002767  | ◆Brace, shield .....                  | 1         | Use with 5/8" dia. reel shaft   |
| 28       | 1002768  | Brace, shield .....                   | 1         |                                 |
| 29       | 400108   | Screw, 1/4-20 x 3/4" .....            | 3         |                                 |
| 30       | 446130   | Lockwasher, 1/4 .....                 | 3         |                                 |
| 31       | 400194   | Screw, 5/16-18 x 1 3/4" .....         | 1         |                                 |
| 32       | 453023   | Washer, 1/4" .....                    | 2         |                                 |
| 33       | 415522   | Screw, set 5/16-18 x 3/8" .....       | 4         |                                 |
| 34       | 3005970  | Spacer, long .....                    | 1         |                                 |
| 35       | 446136   | Lockwasher 5/16" .....                | 2         |                                 |
| 36       | 452008   | ★Washer, 7/16 .....                   | 1         | Use with turf groomer           |
| 37       | 364124   | △Bracket .....                        | 1         | Use with 1/2" dia. reel shaft   |
| 38       | 3004410  | △Spacer, medium .....                 | 1         | Use with 1/2" dia. reel shaft   |
| 39       | 400112   | △Screw, 1/4-20 x 1" .....             | 1         | Use with 1/2" dia. reel shaft   |
| 40       | 443102   | △Nut, 1/4-20 .....                    | 1         | Use with 1/2" dia. reel shaft   |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

**25.1 FRONT ROLLERS**  
**PRODUCT NO. 68613 – 2" GROOVED (STEEL)**  
**PRODUCT NO. 68614 – 2" GROOVED (ALUMINUM)**

**ROLLER CAN BE USED ON THE  
 FOLLOWING CUTTING HEADS**

**PRODUCT NO. 67037 (11-BLADE)**  
**PRODUCT NO. 67038 (9-BLADE)**  
**PRODUCT NO. 67039 (7-BLADE)**

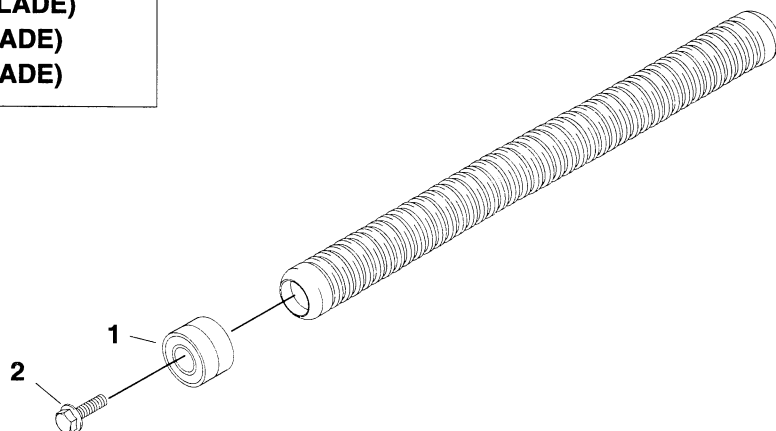


| Ref. No. | Part No. | Description                       | No. Req'd | Notes                     |
|----------|----------|-----------------------------------|-----------|---------------------------|
| 1        | 3000012  | Shaft, rear roller .....          | 1         |                           |
| 2        | 3000013  | Roller, grooved (steel) .....     | 1         |                           |
| 2        | 3000394  | Roller, grooved (aluminum) .....  | 1         |                           |
| 3        | 503378   | Bearing, ball, cup and cone ..... | 2         |                           |
| 4        | 367029   | Locknut, 3/4-16 UNF .....         | 2         |                           |
| 5        | 3000026  | Seal, grease .....                | 2         |                           |
| 6        | 3000010  | Adapter, seal .....               | 2         | Used with steel roller    |
| 6        | 3000543  | Adapter, seal .....               | 2         | Used with aluminum roller |

**REAR ROLLER**  
**PRODUCT NO. 68580 – 2" GROOVED**

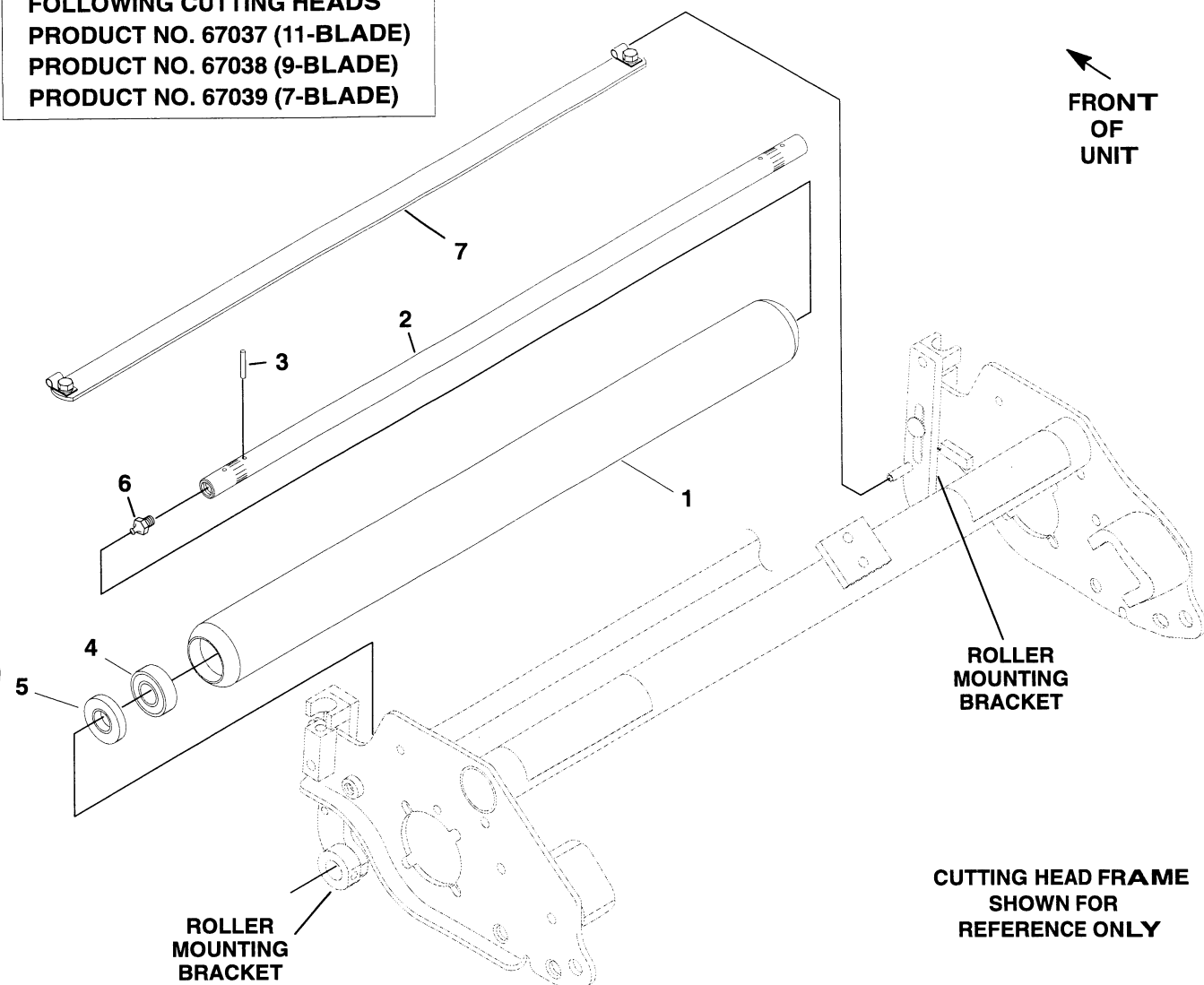
**ROLLER CAN BE USED ON THE  
 FOLLOWING CUTTING HEADS**

**PRODUCT NO. 67037 (11-BLADE)**  
**PRODUCT NO. 67038 (9-BLADE)**  
**PRODUCT NO. 67039 (7-BLADE)**



| Ref. No. | Part No. | Description               | No. Req'd | Notes |
|----------|----------|---------------------------|-----------|-------|
| 1        | 364135   | Bearing, double row ..... | 2         |       |
| 2        | 315298   | Bolt, wheel .....         | 2         |       |

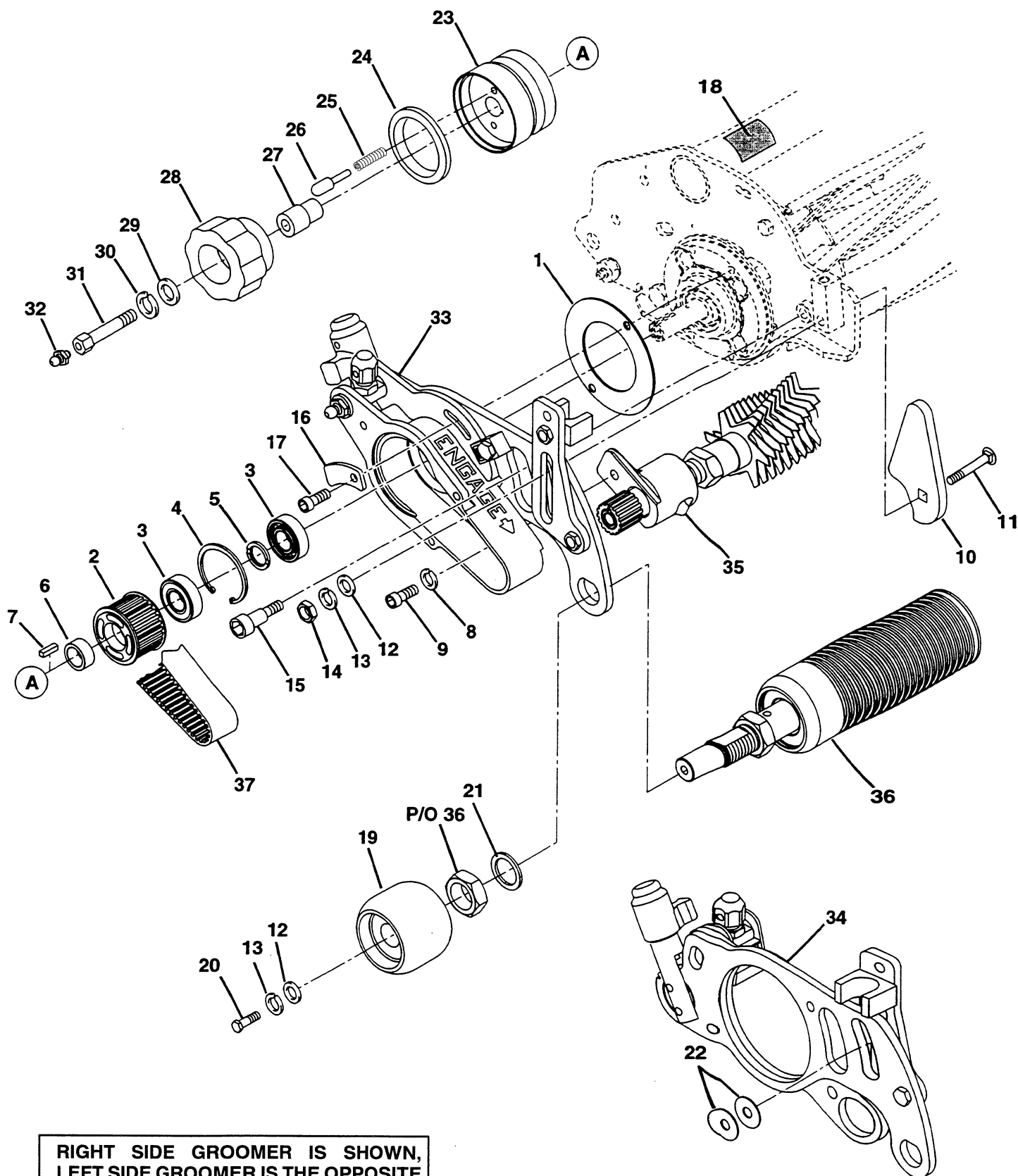
ROLLER CAN BE USED ON THE  
FOLLOWING CUTTING HEADS  
PRODUCT NO. 67037 (11-BLADE)  
PRODUCT NO. 67038 (9-BLADE)  
PRODUCT NO. 67039 (7-BLADE)



| Ref. No. | Part No. | Description                           | No. Req'd | Notes |
|----------|----------|---------------------------------------|-----------|-------|
|          | 162917   | Front roller assembly, complete ..... | 1         |       |
| 1        | 131426   | •Roller, smooth (steel) .....         | 1         |       |
| 2        | 102030   | •Shaft, front roller assembly .....   | 1         |       |
| 3        | 461359   | ••Pin, roll 1/8 x 3/4 .....           | 2         |       |
| 4        | 303558   | •Bearing .....                        | 2         |       |
| 5        | 305115   | •Seal .....                           | 2         |       |
| 6        | 471214   | •Fitting, grease .....                | 2         |       |
| 7        | 102024   | •Scraper blade assembly .....         | 1         |       |

• INDENTED PARTS NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY

**25.1 TURF GROOMER ACCESSORY**  
**PRODUCT NO. 67871, 1/4" SPACING**  
**PRODUCT NO. 67873, 1/2" SPACING**

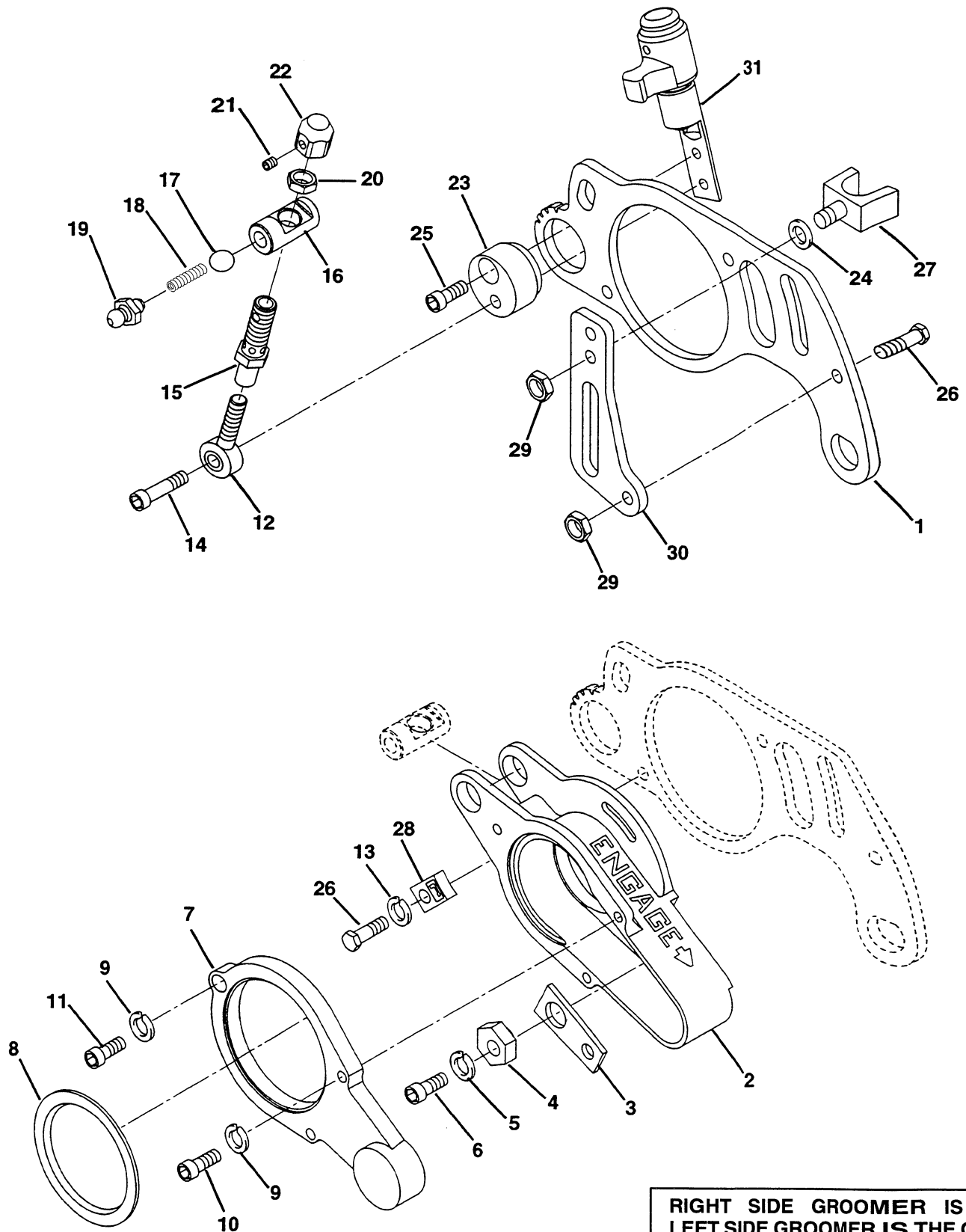


# TURF GROOMER ACCESSORY 25.1

| Ref. No. | Part No. | Description                             | No. Req'd | Notes                     |
|----------|----------|-----------------------------------------|-----------|---------------------------|
| 1        | 365226   | Plate, cover .....                      | 1         |                           |
|          | 132212   | Pulley assembly .....                   | 1         |                           |
| 2        | 365228   | •Pulley, 28 groove .....                | 1         |                           |
| 3        | 365229   | •Bearing, ball .....                    | 2         |                           |
| 4        | 458461   | •Snap ring .....                        | 1         |                           |
| 5        | 365232   | •Spacer .....                           | 1         |                           |
| 6        | 365256   | Spacer, pulley .....                    | 1         |                           |
| 7        | 365239   | Key, 1/8 x 1/8 x 7/16" .....            | 1         |                           |
| 8        | 446142   | Lockwasher, 3/8" .....                  | 2         |                           |
| 9        | 434030   | Screw, 3/8-16 x 7/8", socket head ..... | 2         |                           |
| 10       | 365237   | Spacer, grass catcher .....             | 2         |                           |
| 11       | 441672   | Bolt, carriage, 5/16-18 x 2 1/2" .....  | 2         |                           |
| 12       | 364441   | Spacer, 5/16" .....                     | 4         |                           |
| 13       | 446136   | Lockwasher, 5/16" .....                 | 4         |                           |
| 14       | 443106   | Nut, 5/16-18 .....                      | 2         |                           |
| 15       | 365246   | Bolt, 3/8-16, nyloc shoulder .....      | 2         |                           |
| 16       | 365341   | Washer, special .....                   | 2         |                           |
| 17       | 434031   | Screw, 1/4-20 x 3/4", socket head ..... | 2         |                           |
| 18       | 365240   | Decal, turf groomer .....               | 1         |                           |
| 19       | 365343   | Guide, wheel .....                      | 2         |                           |
| 20       | 400184   | Screw, 5/16-18 x 3/4" .....             | 2         |                           |
| 21       | 365409   | Spacer, roller .....                    | As Req'd  |                           |
| 22       | 3005515  | Spacer, driven assembly .02" .....      | As Req'd  |                           |
|          |          | Clutch assembly .....                   | 1         |                           |
| 23       | 163776   | •Pulley assembly .....                  | 1         |                           |
| 24       | 338768   | •Seal, grease .....                     | 1         |                           |
| 25       | 365272   | •Spring .....                           | 2         |                           |
| 26       | 365258   | •Pin .....                              | 2         |                           |
| 27       | 365254   | •Shaft, stub .....                      | 1         |                           |
| 28       | 241817   | •Knob, clutch .....                     | 1         |                           |
| 29       | 363841   | •Washer .....                           | 1         |                           |
| 30       | 446142   | •Lockwasher, 3/8" .....                 | 1         |                           |
| 31       | 365257   | •Bolt .....                             | 1         |                           |
| 32       | 471214   | •Fitting, grease, 1/4-28 .....          | 1         |                           |
| 33       |          | Drive assembly .....                    | 1         | See breakdown on page 114 |
| 34       |          | Driven assembly .....                   | 1         | See breakdown on page 116 |
| 35       |          | Blade assembly .....                    | 1         | See breakdown on page 118 |
| 36       |          | Roller assembly .....                   | 1         | See breakdown on page 120 |
| 37       | 365235   | Belt, drive .....                       | 1         |                           |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 TURF GROOMER DRIVE ASSEMBLY



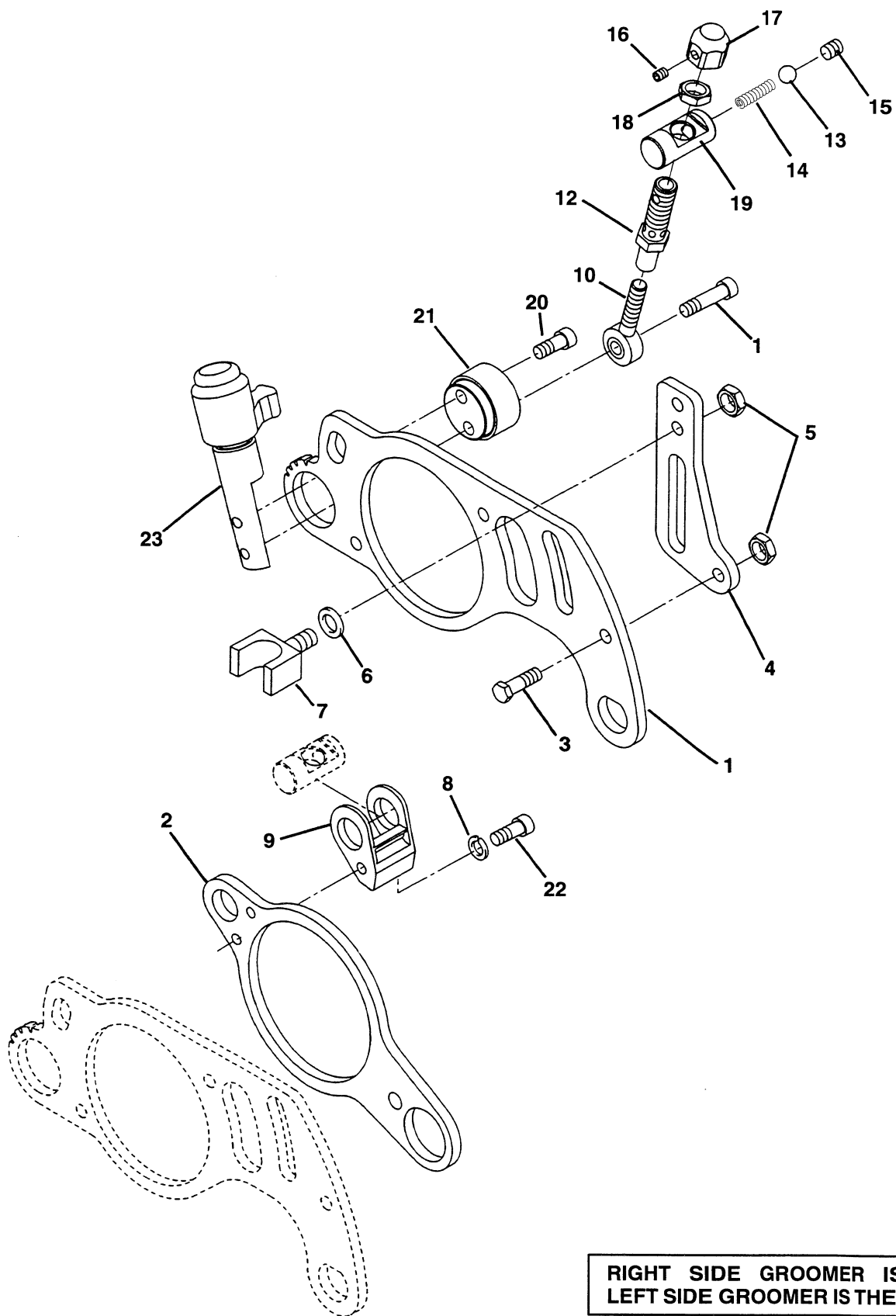
RIGHT SIDE GROOMER IS SHOWN,  
LEFT SIDE GROOMER IS THE OPPOSITE

**TURF GROOMER 25.1  
DRIVE ASSEMBLY**

| Ref.<br>No. | Part<br>No. | Description                                | No.<br>Req'd | Notes                           |
|-------------|-------------|--------------------------------------------|--------------|---------------------------------|
| 1           | 3010708     | Bracket, groomer roller .....              | 1            | See parts breakdown on page 121 |
| 2           | 220302      | Housing, belt .....                        | 1            |                                 |
| 3           | 365260      | Link, belt adjusting .....                 | 1            |                                 |
| 4           | 367162      | Eccentric, belt adjusting .....            | 1            |                                 |
| 5           | 446142      | Lockwasher, 3/8" .....                     | 1            |                                 |
| 6           | 434030      | Screw, 3/8-16 x 7/8", socket head .....    | 1            |                                 |
| 7           | 132214      | Cover, belt housing .....                  | 1            |                                 |
| 8           | 338752      | Seal, oil .....                            | 1            |                                 |
| 9           | 446130      | Lockwasher, 1/4" .....                     | 3            |                                 |
| 10          | 434029      | Screw, 1/4-20 x 1", socket head .....      | 2            |                                 |
| 11          | 434011      | Screw, 1/4-20 x 5/8", socket head .....    | 1            |                                 |
| 12          | 365247      | End, rod .....                             | 1            |                                 |
| 13          | 446136      | Lockwasher, 5/16" .....                    | 1            |                                 |
| 14          | 434032      | Screw, 5/16-18 x 1 3/4", socket head ..... | 1            |                                 |
| 15          | 365270      | Bolt, micro adjusting .....                | 1            |                                 |
| 16          | 3003969     | Pin, pivot .....                           | 1            |                                 |
| 17          | 465006      | Ball, 5/16 dia., steel .....               | 1            |                                 |
| 18          | 365291      | Spring .....                               | 1            |                                 |
| 19          | 471219      | Fitting, grease, 1/8 NPT .....             | 1            |                                 |
| 20          | 445667      | Nut, 1/2-20, hex nyloc .....               | 1            |                                 |
| 21          | 422502      | Screw, set, 1/4-20 x 1/4" .....            | 1            |                                 |
| 22          | 3005108     | Knob, micro adjuster .....                 | 1            |                                 |
| 23          | 367166      | Cam .....                                  | 1            |                                 |
| 24          | 453009      | Washer, 5/16" .....                        | 1            |                                 |
| 25          | 434024      | Screw, 5/16-18 x 3/4" Socket head .....    | 1            |                                 |
| 26          | 400186      | Screw, 5/16-18 x 7/8" .....                | 2            |                                 |
| 27          | 364061      | Bracket, adjusting pivot .....             | 1            |                                 |
| 28          | 365344      | Clamp, housing retaining .....             | 1            |                                 |
| 29          | 444718      | Nut, 5/16-18 .....                         | 2            |                                 |
| 30          | 365233      | Link, roller adjusting .....               | 1            |                                 |
| 31          |             | Quick height adjuster .....                | 1            |                                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 TURF GROOMER DRIVEN ASSEMBLY

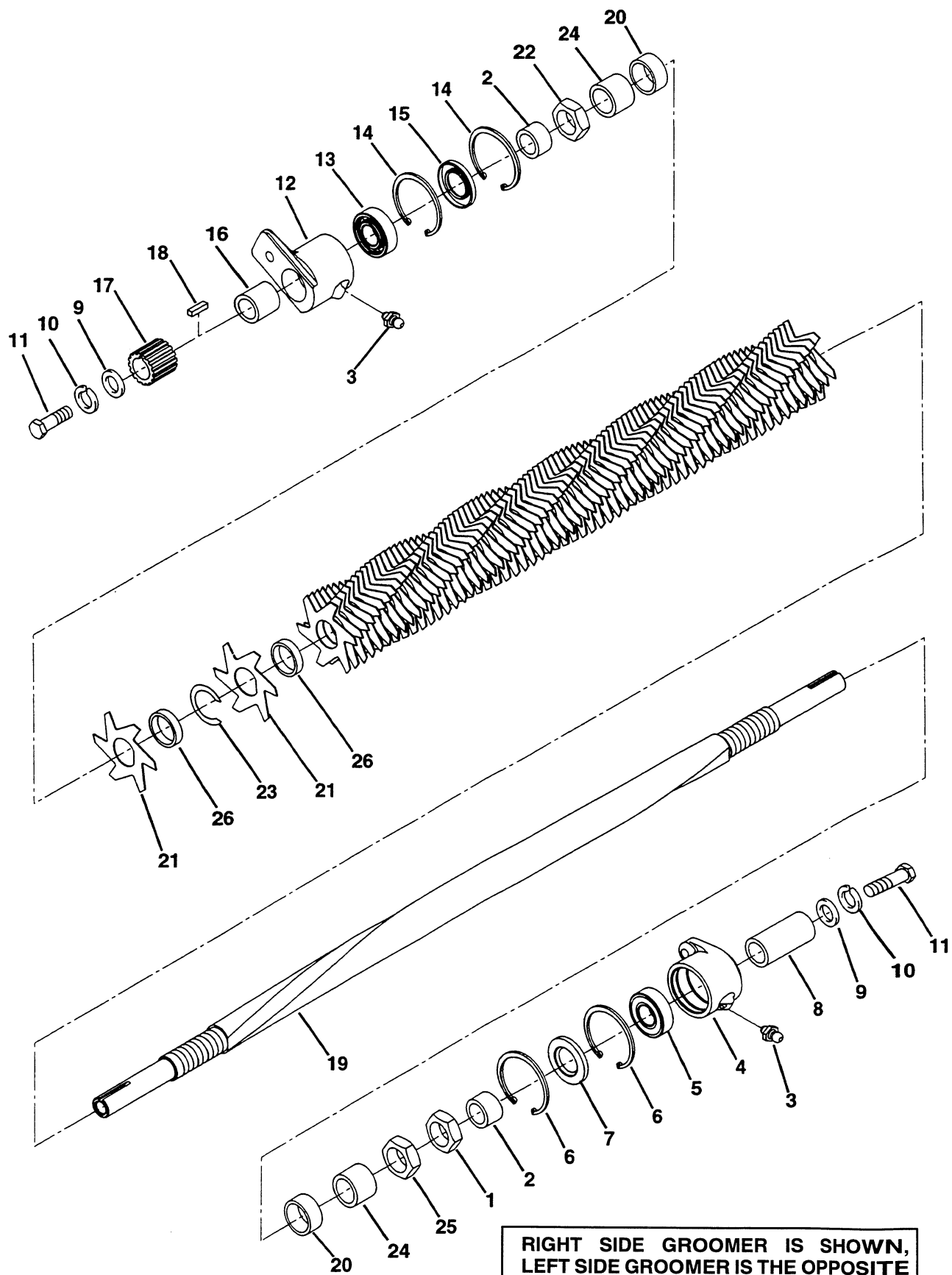


**TURF GROOMER 25.1  
DRIVEN ASSEMBLY**

| Ref.<br>No. | Part<br>No. | Description                              | No.<br>Req'd | Notes                           |
|-------------|-------------|------------------------------------------|--------------|---------------------------------|
| 1           | 3010708     | Bracket, groomer roller .....            | 1            | See parts breakdown on page 121 |
| 2           | 338748      | Bracket, groomer mounting .....          | 1            |                                 |
| 3           | 400186      | Screw, 5/16–18 x 7/8" .....              | 1            |                                 |
| 4           | 365233      | Link, roller adjusting .....             | 1            |                                 |
| 5           | 444718      | Locknut, 5/16–18, center .....           | 2            |                                 |
| 6           | 453009      | Washer, 5/16" .....                      | 1            |                                 |
| 7           | 364061      | Bracket, adjusting pivot .....           | 1            |                                 |
| 8           | 447212      | Lockwasher .....                         | 2            |                                 |
| 9           | 2000088     | Block, pivot .....                       | 1            |                                 |
| 10          | 365247      | Rod end .....                            | 1            |                                 |
| 11          | 434032      | Bolt, 5/16–18 x 1 3/4" socket head ..... | 1            |                                 |
| 12          | 365270      | Bolt, micro adjusting .....              | 1            |                                 |
| 13          | 465006      | Ball, 5/16 dia., steel .....             | 1            |                                 |
| 14          | 365291      | Spring .....                             | 1            |                                 |
| 15          | 323016      | Plug, pipe, 1/8 NPT, 90° .....           | 1            |                                 |
| 16          | 422502      | Screw, set, 1/4–20 x 1/4" .....          | 1            |                                 |
| 17          | 3005108     | Knob, micro adjuster .....               | 1            |                                 |
| 18          | 445667      | Nut, 1/2–20, hex nyloc .....             | 1            |                                 |
| 19          | 3003969     | Pin, pivot .....                         | 1            |                                 |
| 20          | 434024      | Screw, 5/16–18 x 3/4" socket head .....  | 1            |                                 |
| 21          | 367166      | Cam .....                                | 1            |                                 |
| 22          | 400118      | Screw, 1/4–20 x 1 3/4" socket head ..... | 2            |                                 |
| 23          |             | Quick height adjuster .....              | 1            |                                 |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 TURF GROOMER BLADE ASSEMBLY



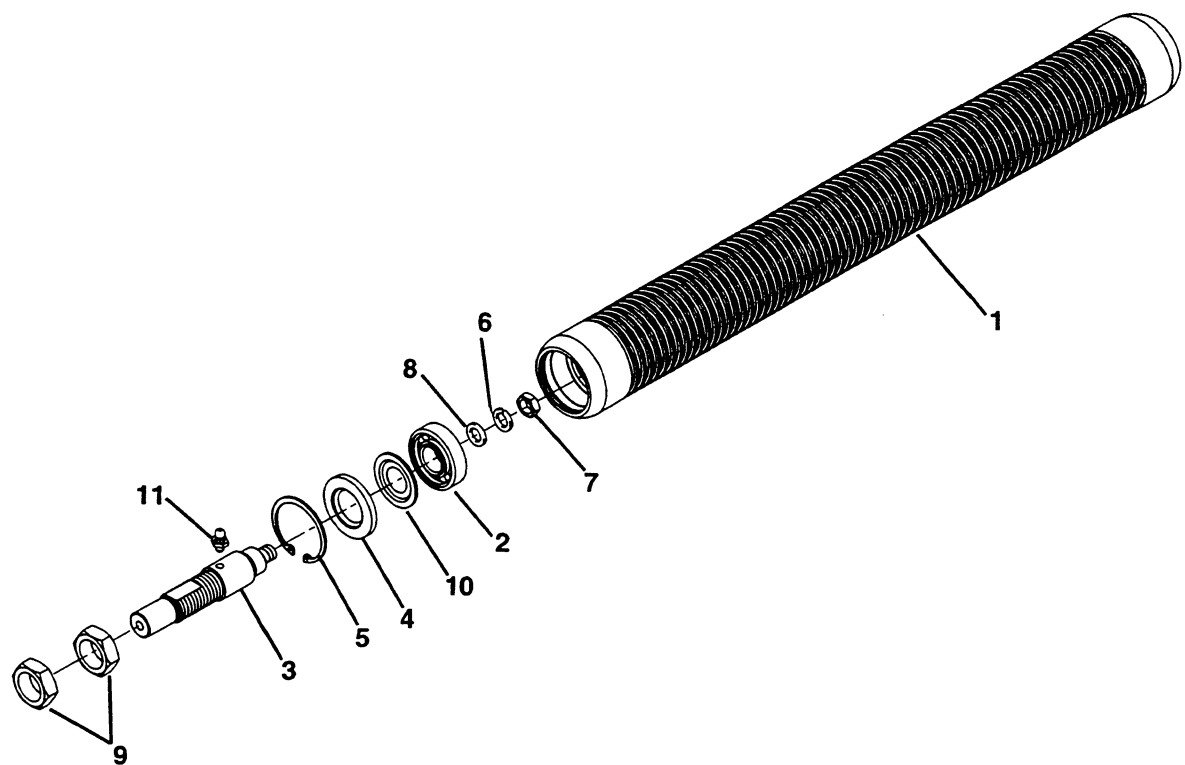
RIGHT SIDE GROOMER IS SHOWN,  
LEFT SIDE GROOMER IS THE OPPOSITE

**TURF GROOMER 25.1  
BLADE ASSEMBLY**

| Ref. No. | Part No. | Description                                | No. Req'd | Notes                               |
|----------|----------|--------------------------------------------|-----------|-------------------------------------|
| 1        | 367029   | Locknut, 3/4-16, hex nyloc .....           | 1         |                                     |
| 2        | 367165   | Spacer, 7/8 x 17/32" .....                 | 2         |                                     |
| 3        | 471214   | Fitting, grease, 1/4-28 .....              | 1         |                                     |
|          | 132211   | Housing, driven bearing .....              | 1         |                                     |
| 4        | 241808   | •Housing, bearing .....                    | 1         |                                     |
| 5        | 365229   | •Bearing, ball .....                       | 1         |                                     |
| 6        | 458461   | •Snap ring .....                           | 2         |                                     |
| 7        | 336962   | •Seal, grease .....                        | 1         |                                     |
| 8        | 367164   | Spacer, 7/8 x 1 13/16" .....               | 1         |                                     |
| 9        | 453011   | Washer, 3/8" .....                         | 2         |                                     |
| 10       | 446142   | Lockwasher, 3/8" .....                     | 2         |                                     |
| 11       | 400298   | Screw, 3/8-24 x 1" .....                   | 2         |                                     |
|          | 132210   | Housing, drive bearing .....               | 1         |                                     |
| 12       | 241807   | •Housing, bearing .....                    | 1         |                                     |
| 13       | 365229   | •Bearing, ball .....                       | 1         |                                     |
| 14       | 458461   | •Snap ring .....                           | 2         |                                     |
| 15       | 336962   | •Seal, grease .....                        | 1         |                                     |
| 16       | 367163   | Spacer, 7/8 x 7/8" .....                   | 1         |                                     |
| 17       | 365227   | Pulley, 16 groove .....                    | 1         |                                     |
| 18       | 345556   | Key, 1/8 x 1/8 x 31/32" .....              | 1         |                                     |
|          | 132215   | Groomer shaft assembly, 1/4" spacing ..... | 1         | Product No. 67871                   |
|          | 132213   | Groomer shaft assembly, 1/2" spacing ..... | 1         | Product No. 67873                   |
| 19       | 390857   | •Shaft, groomer .....                      | 1         |                                     |
| 20       | 365234   | •Spacer, 1 1/16 x 15/32" .....             | 2         |                                     |
| 21       | 365230   | •Blade (1/4" spacing) .....                | 71        | 365230 is a package of<br>50 Blades |
|          | 365230   | •Blade (1/2" spacing) .....                | 40        |                                     |
| 22       | 367029   | •Locknut, 3/4-16, hex nyloc .....          | 1         |                                     |
| 23       | 364040   | •Shim, groomer shaft .....                 | As Req'd  |                                     |
| 24       | 367161   | •Spacer, 1 x 3/4" .....                    | 2         |                                     |
| 25       | 443832   | •Nut, 3/4-16, jam .....                    | 1         |                                     |
| 26       | 365236   | •Spacer, 1/4" spacing .....                | 70        | Product No. 67871                   |
| 26       | 365234   | •Spacer, 1/2" spacing .....                | 39        | Product No. 67873                   |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

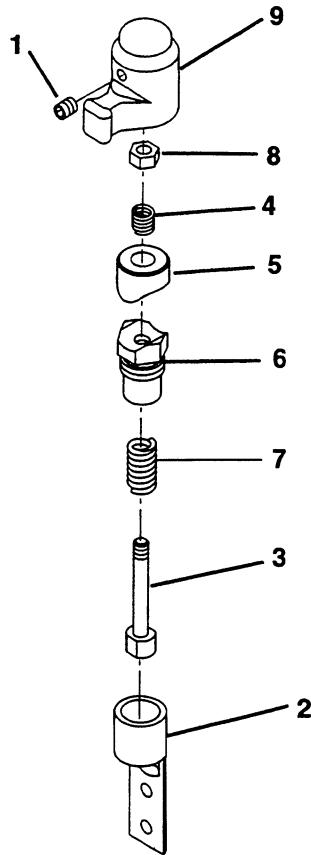
25.1 TURF GROOMER  
ROLLER ASSEMBLY



| Ref. No. | Part No. | Description                      | No. Req'd | Notes                                  |
|----------|----------|----------------------------------|-----------|----------------------------------------|
| 1        | 390899   | Tube, roller, 1/4" spacing ..... | 1         | Product No. 67871<br>Product No. 67873 |
| 1        | 390900   | Tube, roller, 1/2" spacing ..... | 1         |                                        |
| 2        | 365330   | Bearing, ball .....              | 2         |                                        |
| 3        | 338772   | Shaft, roller .....              | 2         |                                        |
| 4        | 338773   | Seal, grease .....               | 2         |                                        |
| 5        | 458113   | Snap ring .....                  | 2         |                                        |
| 6        | 446148   | Lockwasher, 7/16" .....          | 2         |                                        |
| 7        | 443186   | Nut, 7/16-20, jam .....          | 2         |                                        |
| 8        | 452008   | Washer, 7/16" .....              | 2         |                                        |
| 9        | 443836   | Nut, 7/8-14, jam .....           | 4         |                                        |
| 10       | 365345   | Ring, nylos .....                | 2         |                                        |
| 11       | 471214   | Fitting, grease, 1/4-28 .....    | 2         |                                        |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

**TURF GROOMER 25.1  
QUICK HEIGHT ADJUSTER**



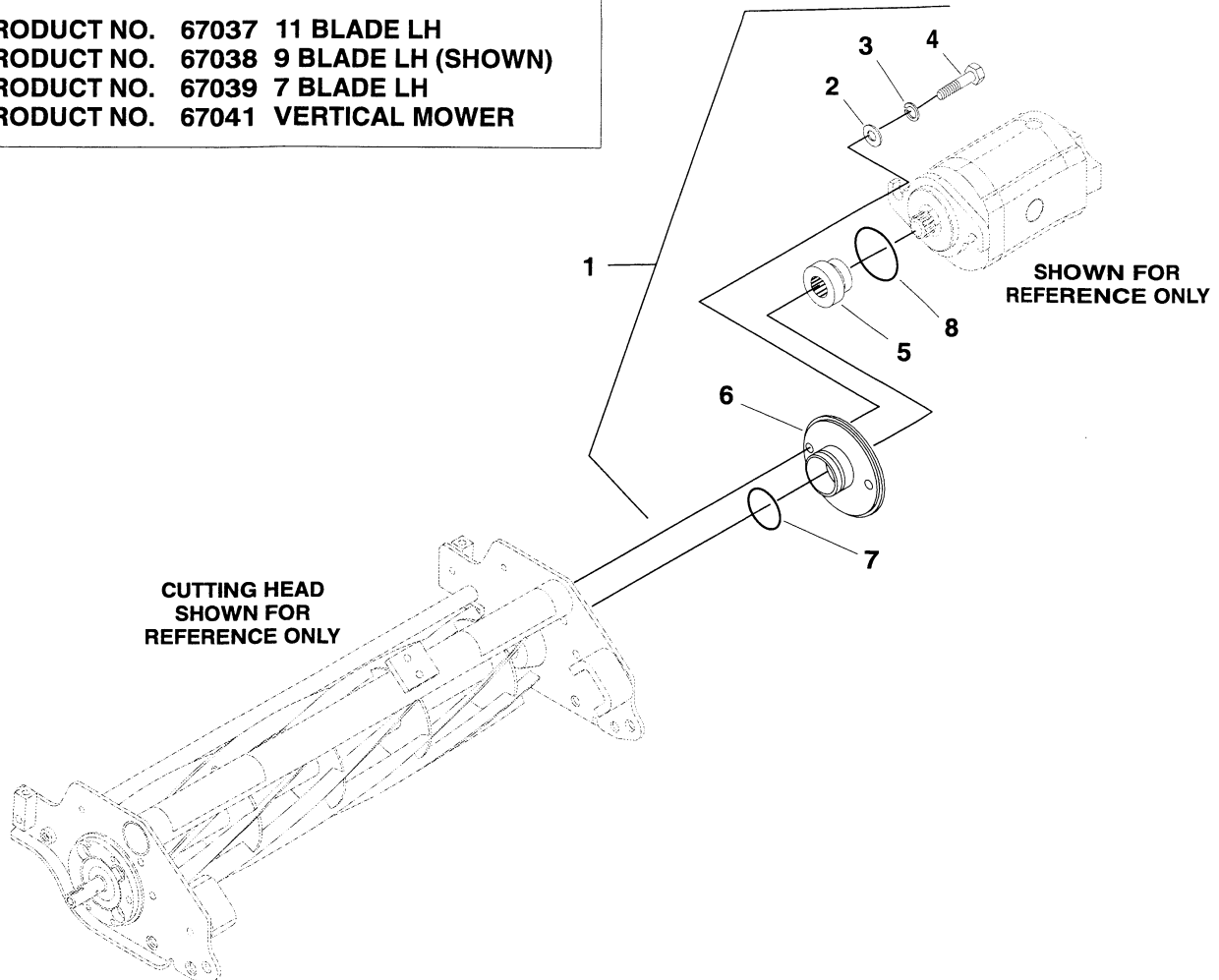
| Ref. No. | Part No. | Description                     | No. Req'd | Notes |
|----------|----------|---------------------------------|-----------|-------|
| 1        | 422502   | Screw, set, 1/4-20 x 1/4" ..... | 1         |       |
| 2        | 365265   | Link, adjusting .....           | 1         |       |
|          | 163761   | Knob assembly .....             | 1         |       |
| 3        | 365271   | •Bolt .....                     | 1         |       |
| 4        | 365268   | •Spring .....                   | 1         |       |
| 5        | 365267   | •Plunger .....                  | 1         |       |
| 6        | 365266   | •Bolt, adjusting .....          | 1         |       |
| 7        | 365269   | •Spring .....                   | 1         |       |
| 8        | 444708   | •Locknut, 1/4-20, center .....  | 1         |       |
| 9        | 271919   | Knob, quick adjuster .....      | 1         |       |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

## 25.1 REEL MOTOR MOUNTING

### ONLY USED ON CUTTING HEAD ACCESSORIES

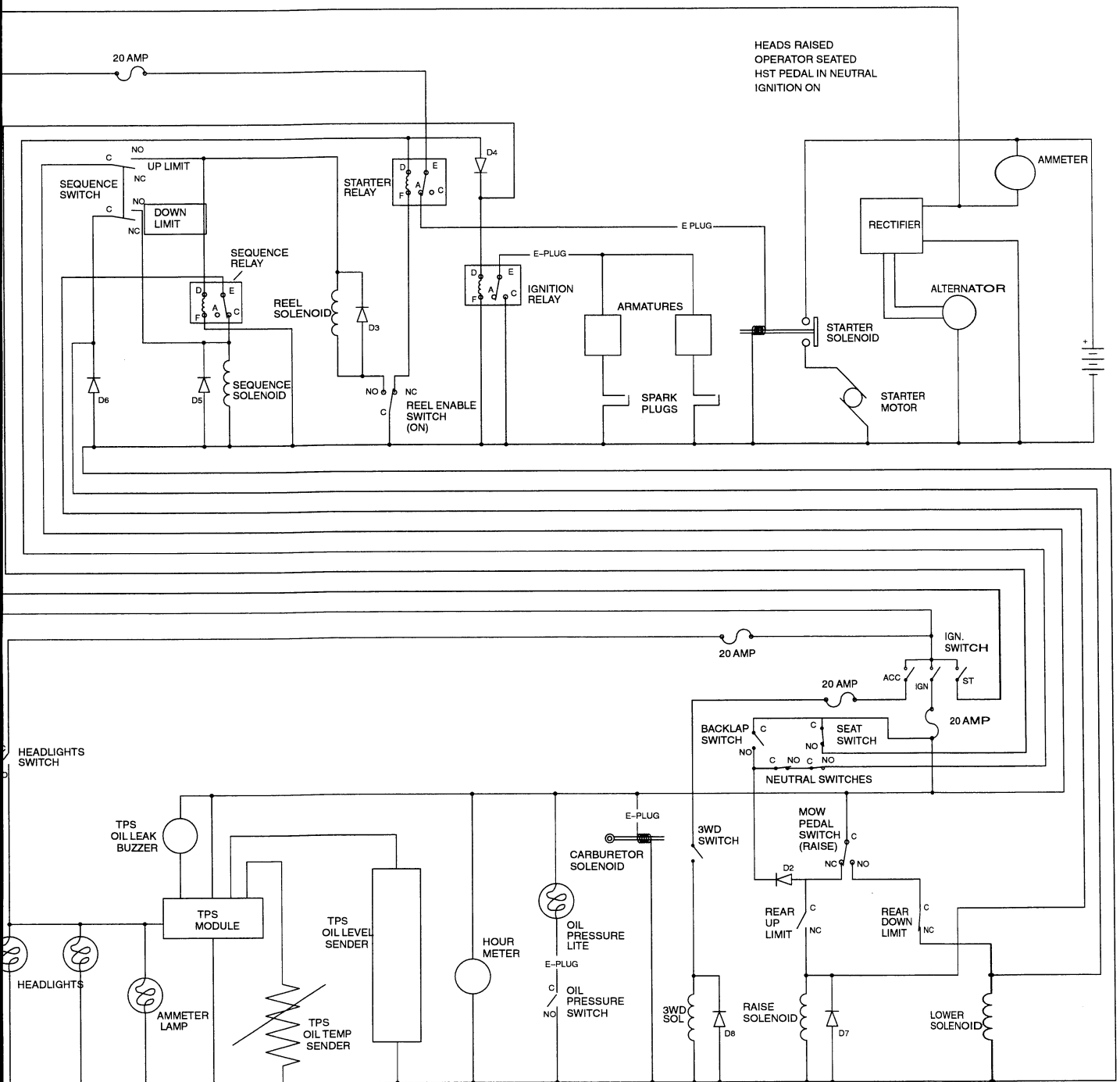
PRODUCT NO. 67037 11 BLADE LH  
 PRODUCT NO. 67038 9 BLADE LH (SHOWN)  
 PRODUCT NO. 67039 7 BLADE LH  
 PRODUCT NO. 67041 VERTICAL MOWER



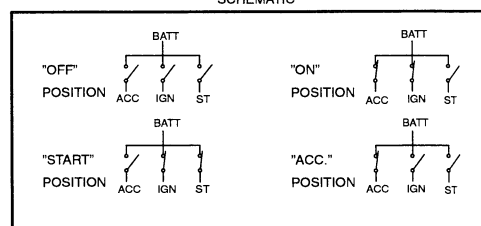
| Ref. No. | Part No. | Description                          | No. Req'd | Notes                          |
|----------|----------|--------------------------------------|-----------|--------------------------------|
| 1        | 894991   | Kit, motor adapter .....             | 1         | Must have to mount these heads |
| 2        | 103867   | •Washer, 5/16 .....                  | 2         |                                |
| 3        | 306325   | •Lockwasher, 5/16 .....              | 2         |                                |
| 4        | 306501   | •Screw, 5/16-18 x 1 1/2" .....       | 2         |                                |
| 5        | 337370   | •Coupling, drive .....               | 1         |                                |
| 6        | 845278   | •Adapter, motor .....                | 1         |                                |
| 7        | 845279   | •Seal, o-ring, 1.49 i.d. x .07 ..... | 1         |                                |
| 8        | 845280   | •Seal, o-ring, 1.99 i.d. x .07 ..... | 1         |                                |

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY

# **WIRING SCHEMATIC 26.1** **GREENPLEX II GAS MODELS**



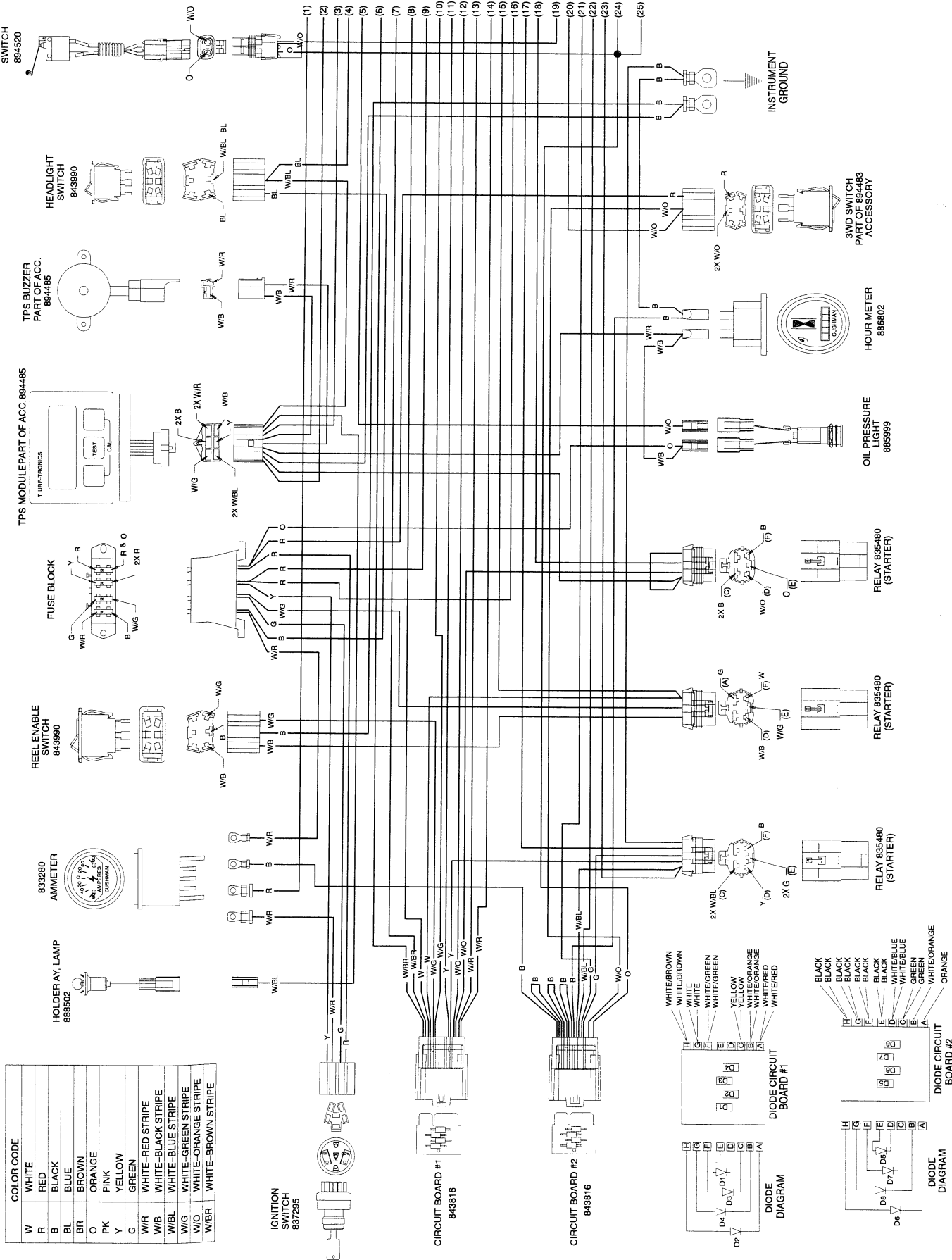
IGNITION SWITCH  
SCHEMATIC



**FOR DIESEL MODELS THE WIRING  
SCHEMATIC AND DIAGRAM ARE  
OFFERED SEPARATELY, ORDER  
PART NO. 844751**

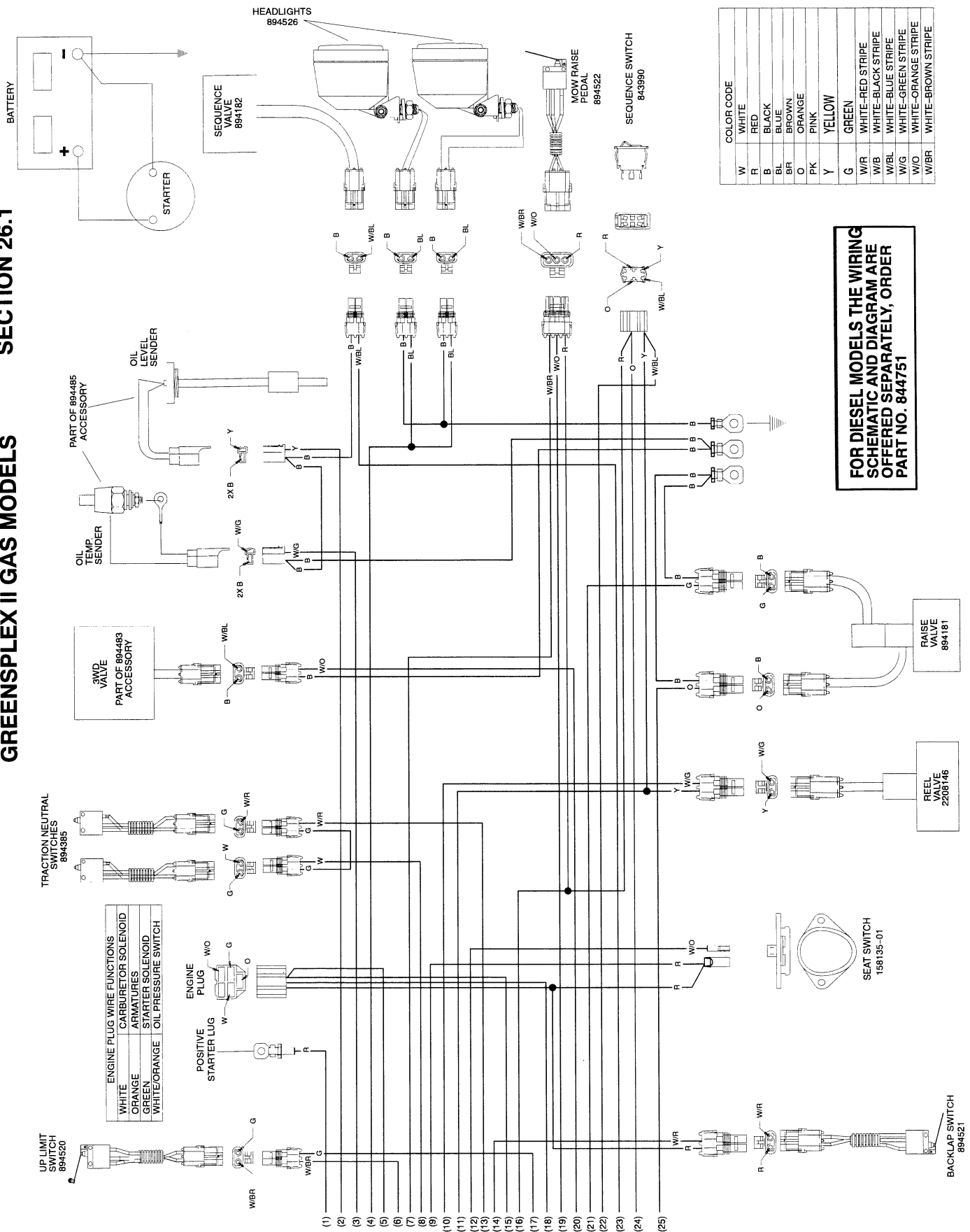
# WIRING DIAGRAM GREENSPLEX II GAS MODELS

## SECTION 26.1



# WIRING DIAGRAM GREENSPLEX II GAS MODELS

## SECTION 26.1



[illegible]

## SERVICE

[illegible]



## World Class Quality, Performance And Support

Equipment from Textron Turf Care And Specialty Products is built to exacting standards ensured by ISO 9001 registration at all our manufacturing locations.

A worldwide dealer network and factory-trained technicians backed by Textron Parts Xpress provide reliable, high-quality product support.



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