

# DEALER PRE-DELIVERY CHECK LIST

## E-141 Tractor

The predelivery operations and checks on this list should have been performed and signed for by your dealer prior to delivery. If, for any reason, there is an indication your tractor has not been checked, make sure the following operations have been performed **BEFORE** starting your tractor.

### ☐ INSTALL FRONT WHEEL AND TIRE ASSEMBLIES

Using a suitable hoist or jack, raise the front of the tractor.

- If a floor jack is employed, center the jack under the frame assembly behind the front axle. Use a 2 x 4 piece of lumber or similar material, long enough to span the width of the frame, between the jack and the tractor to prevent damage to the vehicle.
- If a chain hoist is used, attach the hoist to the front axle, being careful not to scratch the side of the tractor, hood, or the axle itself.

Install a wheel and tire assembly on each spindle as illustrated in Fig. 1. The tire valve stem should be to the inside. Correct wheel end play is 0-.015 in. (.4 mm). In some cases it may be necessary to add or remove a shim washer to achieve correct end play.

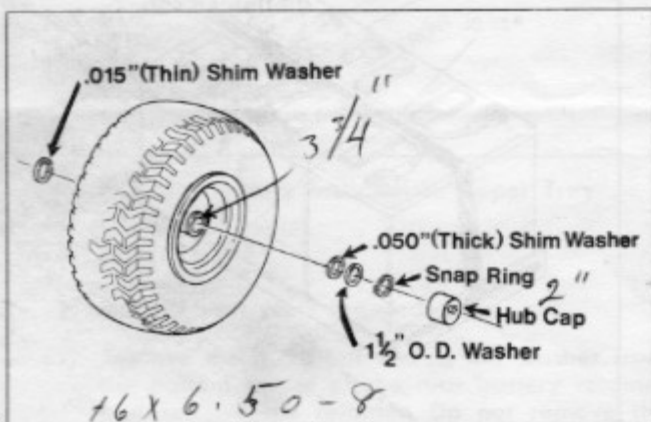


FIG. 1. Front Wheel Installation

### ☐ INSTALL REAR WHEEL AND TIRE ASSEMBLIES

Raise the rear of the tractor.

- If a floor jack is employed, center the jack under the transmission case. Use a 2 x 4 block of wood or similar material, between the jack and the transmission to prevent damage to the transmission case.
- If a chain hoist is employed, attach the hoist to the drawbar hitch. Use a suitable spacer or other means to insure the rear seat pan is not damaged.

Mount a rear wheel and tire assembly on each axle hub so the tire valve stem faces inside. Secure each wheel and tire assembly with the lug bolts provided. Starting at the top, tighten every other lug bolt until all are tight. Torque the lug bolts to 75-80 ft. lbs. (105-112 Nm).

### ☐ ADJUST TIRE PRESSURE

Using a low pressure tire gauge, adjust the tire pressure in all four tires\*:

	Front	Rear
PSI	12-24	12-15
kg/cm <sup>2</sup>	.85-1.69	.85-1.05

\*Tire pressures may be adjusted within range given to maximize operator comfort and control. A mid-range setting is suggested for initial tractor set up.

### ☐ MOUNT STEERING WHEEL

Grease the rubber grommet and push it onto the steering shaft. Position the grommet about 1 in. (2.5 cm) above the top of the dash console.

Install the plastic spacer (side holes up) over the steering shaft. With the wheels straight ahead, install steering wheel so that the spokes form a "Y" and line up the hole in the wheel hub and plastic spacer with the hole in the steering shaft.

Insert a 1/4 punch through the hole to hold the steering wheel in position. Install the 1/4 x 1 1/2 spirol pin by driving it in with a hammer; as the spirol pin is driven in, it should push the punch out.

Install the steering wheel insert with the "R" inside the "wheel" in its upright position, with the front wheels pointing straight ahead.

### ☐ SERVICE THE BATTERIES

#### **CAUTION**

Electrolyte and battery fluid are poisonous and can be injurious to eyes, skin and clothing. In the event of an accident, flush affected area immediately with a solution of one part baking soda to four parts water. Notify physician immediately. If baking soda is not immediately available, flush affected area with water. Notify physician immediately.

- Obtain the six power pack batteries.
- Use an electrolyte with a specific gravity of 1.260; fill each cell until the electrolyte (battery acid) is 1/4 - 1/2 in. (6 - 13 mm) over the top of the separators. **DO NOT OVERFILL.** Be sure to fill all cells as close to the same level as possible, to insure equal specific gravity readings and a "balanced" battery pack.

## □ INSTALL BATTERIES

Turn the power disconnect switch off.

### LOWER BATTERY TRAY

1. Remove the hairpin cotter and clevis pin from the bracket on each side of the lower battery tray.
2. Pull the battery tray out toward the left side of the tractor. Move the two main harness battery cables and wire #26 out of the way.
3. Check that the hole in the plastic 3-battery tray is positioned over the drain hole in the metal tray.
4. Apply a "black-out" decal to each end of three batteries. Place the batteries in the battery tray as shown in Fig. 2.
5. Cut off a 7 ft. (213 cm) strip of plastic banding material. Route the banding material through the slots in the lower battery tray as shown in Fig. 2.
6. Secure the banding material with one of the special clips, routing the banding through the clip as shown in Fig. 3. A pair of pliers may be used to pull the banding tight. Make sure the banding is positioned in the notch provided for it at each end of the battery tray. Cut off excess material, leaving free ends of about 2 in. (5 cm) in length.
7. Connect the left side wiring harness battery cable and long jumper cable as shown in Fig. 2. The terminal on wire #26 should be placed under the bolt head of the cable clamp on the negative post of the rear battery.  
NOTE: Because of the slight size difference between positive and negative battery posts, all cable clamps are stamped with a "P" or "N" for easy identification.
8. Push the lower battery tray over to the right side of the tractor and connect the right side wiring harness battery cable and a short jumper cable as shown in Fig. 2. Leave the lower battery tray in its present position until after the remaining batteries are installed.

### UPPER BATTERY TRAY

1. Cut off a 5 ft. (152 cm) strip of plastic banding material.
2. Slip one end of the banding under the cross rod at the rear end of the upper battery tray and lay both ends of the banding back across the hoodstand, out of the way. Move the two main harness battery cables, wire #27 and the fused connector lead from the light switch out of the way.
3. Check that the plastic single-battery tray is positioned so that drain holes are aligned.
4. Place the battery in the rear of the upper battery tray, between the two cross rods, as shown in Fig. 4.

5. Secure the battery in position with the banding material and a clip as shown in Fig. 4. Position the clip on the front side of the battery, for neat appearance, and cut off excess banding material.
6. Connect wiring harness battery cables, wire #27, and the fused connector lead as shown in Fig. 4.

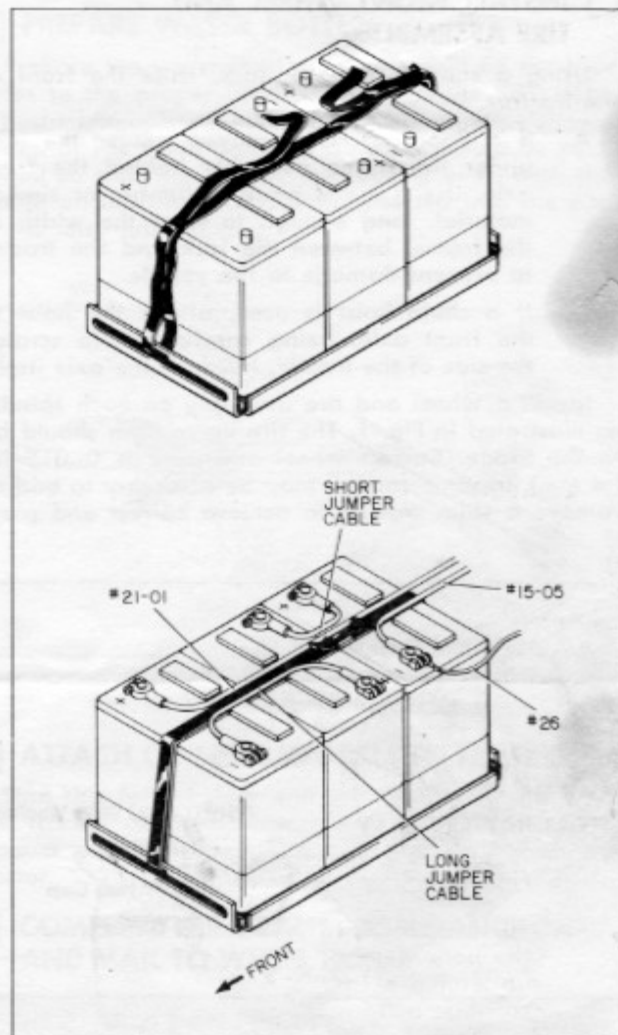


FIG. 2. Battery Installation, Lower Tray

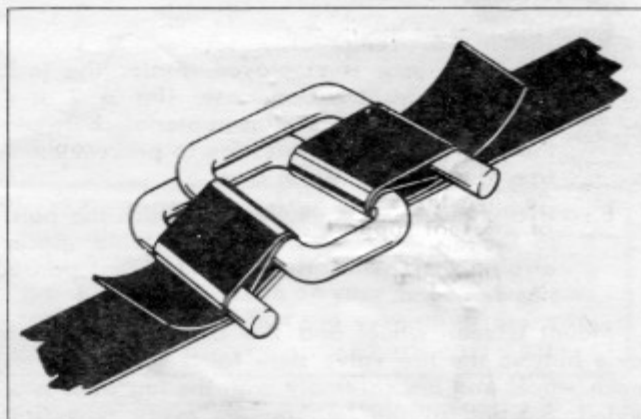


FIG. 3. Routing Banding Material through Clip

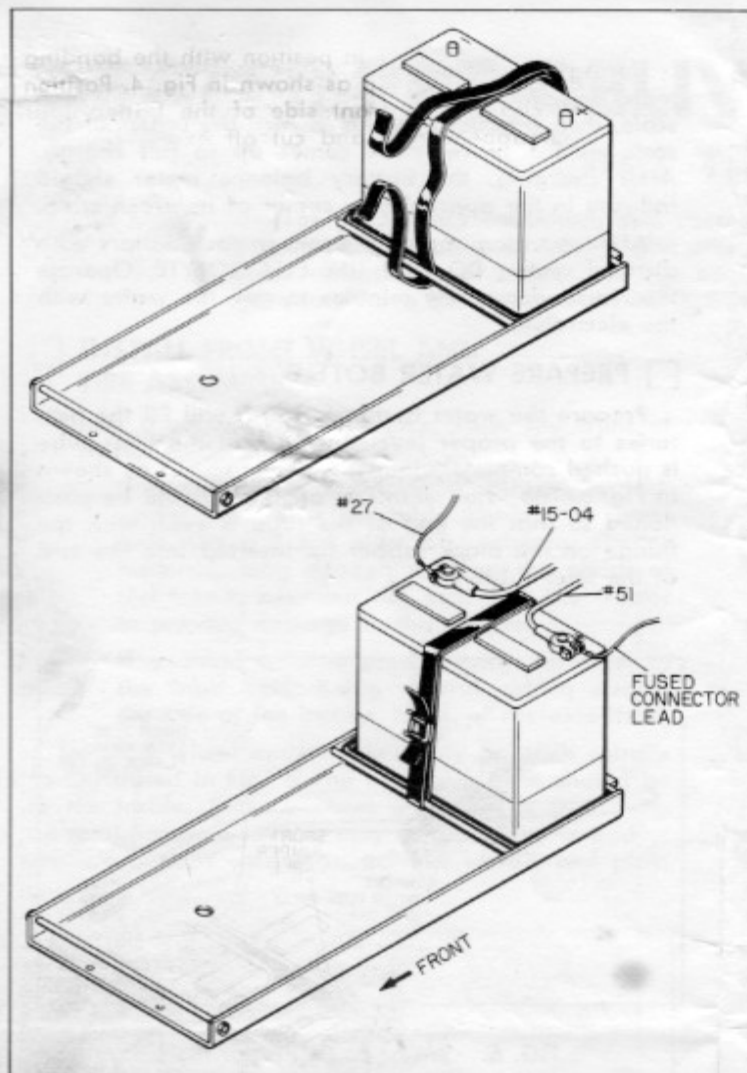


FIG. 4. Battery Installation, Upper Tray

#### REAR BATTERY TRAY

1. Flip the seat plate forward.
2. Remove the  $\frac{5}{16}$ -18 nut and  $\frac{5}{16}$  flat washer from the bottom center of the rear battery retainer and remove the retainer. Do not remove the carriage bolt installed in the battery tray.
3. Check that the plastic 2-battery tray is positioned so that drain holes are aligned.
4. Route the remaining banding material through the two slots in each fender support as shown in Fig. 5. Temporarily secure the banding material above the seat support to keep it out of the way during battery installation.
5. Place the two main harness battery cables in the space between the seat plate and fender. Remove the seat switch and tape it to the top of the seat support.
6. Slide the plastic battery tray out a few inches.
7. Install the batteries as shown in Fig. 5, sliding them into the battery tray from the rear. Use care to avoid pinching any wiring and be sure the banding does not get caught in front of the batteries. Do not push the batteries completely into the battery compartment.

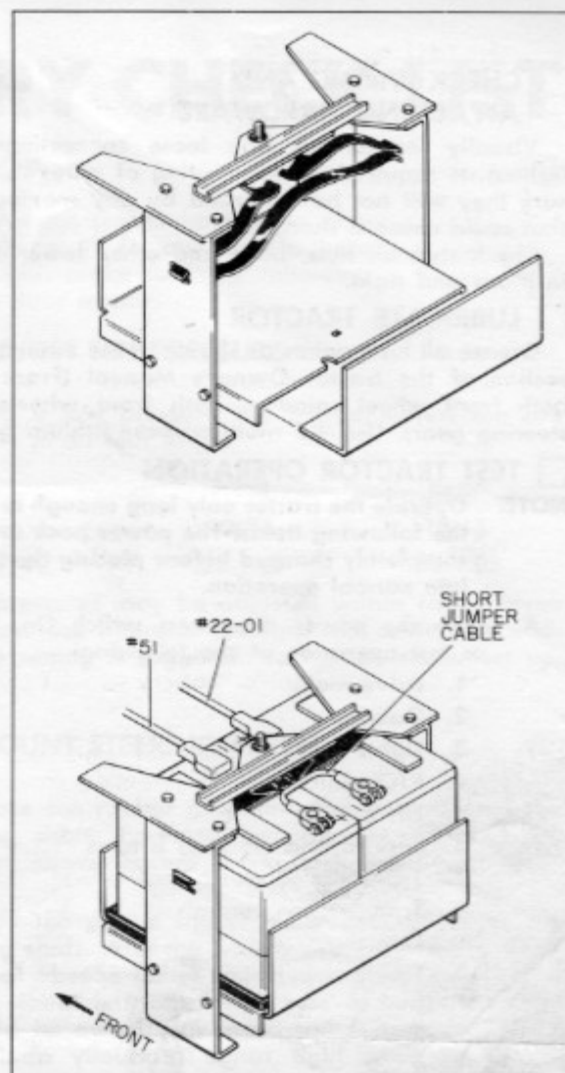


FIG. 5. Battery Installation, Rear Tray

8. Connect the two main harness battery cables to the front battery posts (Fig. 5). Apply terminal grease or petroleum jelly to the cable clamps. Install a plastic terminal cover on the two cables and then push the batteries completely into the battery compartment.
9. Secure the batteries in position with the banding material and a clip. Cut off excess banding.
10. Connect the remaining short jumper cable between the rear battery posts.
11. Reinstall the battery retainer, flat washer and nut. Reinstall the seat switch.

Apply terminal grease or petroleum jelly to all cable clamps. Install plastic terminal covers on all battery cables. Push the lower battery tray back into position and secure with the clevis pins and hairpin cotters.

#### ☐ CHECK TRANSMISSION OIL LEVEL

Check that the transmission oil is at the proper level and for oil leaks. Add SAE 140 oil to bring the level up to the top of the pipe nipple at the left rear of the transmission, if required.

#### ☐ INSTALL SEAT

Mount seat to seat springs with lockwashers and bolts.



## ☐ CHECK WIRING AND ATTACHING HARDWARE

Visually inspect for any loose connections and tighten as required. Check routing of wires to make sure they will not be disturbed by any moving part that could cause a short.

Check that all nuts, bolts and other fasteners are in place and tight.

## ☐ LUBRICATE TRACTOR

Grease all lube points as shown in the maintenance section of the tractor Owner's Manual (Front axle, both front wheel spindles, both front wheels, and steering gear). Use #2 multi-purpose lithium grease.

## ☐ TEST TRACTOR OPERATION

**NOTE:** Operate the tractor only long enough to check the following items. The power pack must be completely charged before placing the tractor into normal operation.

A. Turn the power disconnect switch On. Check or test operation of the following:

1. Drive motor
2. Gauges
3. Lights
4. PTO switch
5. Lift system
6. Service and parking brakes
7. Transmission clutch
8. Transmission controls
9. Steering
10. Tractor operation in all speeds forward and reverse. Check that the "audio alert" system operates; with the tractor in third gear, high range gradually apply the foot brake to load down the tractor — a high pitched horn sound should be heard. Do not slow the tractor excessively with the brake, to avoid damaging the drive belt. The drive motor must be overloaded for 5 continuous seconds before the "audio alert" alarm will sound.

B. Test operation of the safety interlock system:

1. The drive motor should NOT start unless the seat is occupied and the clutch pedal is depressed.
2. With the drive motor running, rise off the seat; the drive motor should stop.
3. The PTO circuit must not operate until the drive motor is started. To test, install the mower or temporarily connect it to the PTO outlet. With the drive motor NOT running, attempt to start the mower with the ignition switch in the Off and Run positions, while the seat is occupied and the clutch pedal is depressed.

## ☐ INSTALL DRAWBAR HITCH PIN

Install the drawbar hitch pin in the drawbar hitch and secure with a hairpin cotter.

## ☐ CHARGE THE POWER PACK

Connect the charger unit to the tractor with the power disconnect switch in the On position. The tractor's "audio alert" system should operate and a high pitched horn sound will be heard. Turn the power disconnect switch Off, and leave the charger connected for a complete charge cycle.

During the charge cycle, check that the fuel level meter initially indicates to the far right of the green scale, then gradually moves toward the center of the scale as the power pack comes up to full charge. After charging, the battery balance meter should indicate in the approximate center of its green scale.

After charging, top off the cells in each battery with distilled water. **DO NOT USE ELECTROLYTE.** Operate the tractor for a few minutes to mix the water with the electrolyte.

## ☐ PREPARE WATER BOTTLE

Prepare the water bottle so that it will fill the batteries to the proper level. Insure that the filler tube is pushed completely into the cap grommet as shown in Fig. 6. The small diameter air tube should be positioned so that the end of the tube is even with the flange on the black rubber tip inserted into the end of the filler tube.

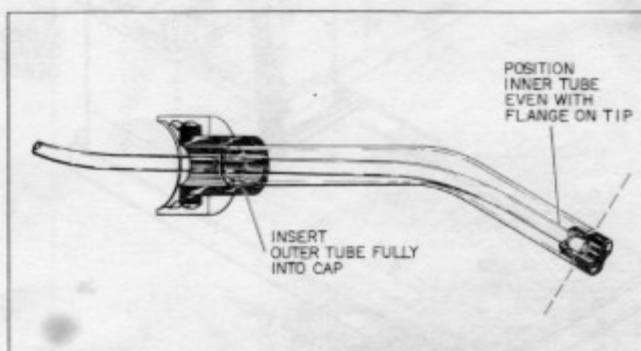


FIG. 6. Water Bottle Preparation

## ☐ ATTACH OWNERS MANUAL TO TRACTOR

Sign this form below and insert it in the front of the tractor Owner's Manual. Attach the Owner's Manual and the manuals for all attachments to the tractor.

## ☐ COMPLETE THE QUALITY ASSURANCE CARD AND MAIL TO WHEEL HORSE

THE AFFIXED SIGNATURE BELOW CERTIFIES THAT THIS TRACTOR HAS BEEN SERVICED AND PREPARED FOR CONSUMER OPERATION.

X AUTHORIZED WHEEL HORSE DEALER

Signature

The preceding items covering the pre-delivery inspection should have been completed by a Wheel Horse Dealer. Failure to complete the pre-delivery inspection on your new Wheel Horse tractor prior to its first use may affect the warranty.

Product information and specifications are shown herein as of the time of printing. Wheel Horse Products, Inc. reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligation.