Thank You

Thank you for purchasing this product. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If applicable, the power testing information used to establish the power rating of the engine equipped on this machine can be found at www.opei.org or the engine manufacturer's web site.

If you have any problems or questions concerning the machine, phone your local authorized service dealer or contact us directly. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to *right* and *left* side of the machine are observed from the operating position.

Contents of Carton

- Zero-Turn Tractor (1)
- Battery Installation Hardware (1)
- Seat Tilt Knob Assembly & Hardware Pack (1)
- Tractor Operator's Manual (1)
- Seat Mounting Hardware (1)
- Engine Operator's Manual (1)

Note: This Operator's Manual covers several models. Tractor features may vary by model. Not all features in this manual are applicable to all tractor models and the tractor depicted may differ from yours.

Note: All references in this manual to the left or right side and front or back of the machine are from the operating position only. Exceptions, if any, will be specified.

Tractor Preparation

TOOLS NEEDED: Safety glasses, leather gloves, wire cutters.

1. Remove the upper crating material from the shipping pallet, and cut any bands or tie straps securing the tractor to the pallet.
2. Use the deck lift pedal (a) to raise the deck to its highest position and secure in place with the clevis pin (b) attached to the tractor. See Figure 2-1.

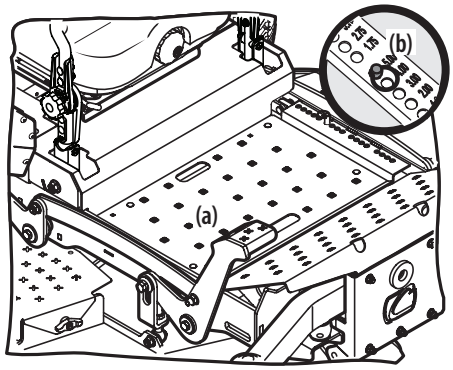

Figure 2-1

3. The two hydrostatic transmissions are equipped with a bypass valve that will allow you to manually move the tractor short distances.
4. Engage the transmission bypass valves by pulling the bypass lever (a) outward then upward and all the way back. See Figure 2-2.

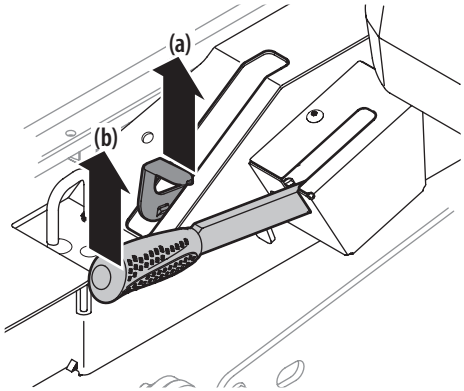

Figure 2-2

⚠ WARNING

Do not tow the tractor, even with the bypass valves engaged. Serious transmission damage will result from doing so.

5. Carefully roll the tractor off the shipping pallet.
6. To release the bypass lever (a), push the lever forward. See Figure 2-2.
7. To engage the parking brake, pull back completely on the parking brake lever (b). See Figure 2-2.
8. Cut any wire ties holding the chute deflector up and discard any packing material.

Roll Over Protective System (ROPS)

1. Pull slightly up on the upper ROPS to relieve any tension on the locking pin (a) and rotate the locking pin (a) from the LOCKED (b) position into the ADJUSTMENT (c) position. See Figure 2-3. Repeat the procedure for the locking pin on the opposite side.

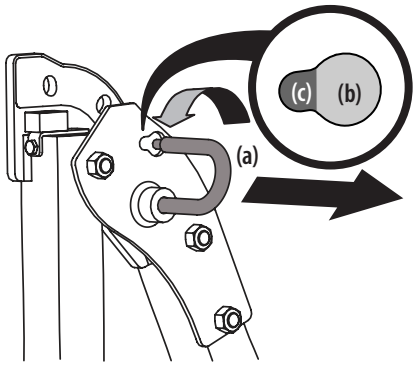

Figure 2-3

2. When both locking pins are secured in the ADJUSTMENT position, slowly lift and rotate the upper ROPS from the TRANSPORT (a) position, past the TRANSPORT WITH BAGGER (b) position and into the OPERATION (c) position. See Figure 2-4.

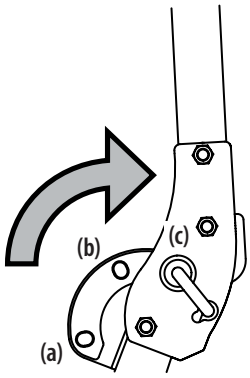

Figure 2-4

3. Rotate both locking pins into the LOCKED position. Move the upper ROPS slightly until the locking pins are fully engaged in the LOCKED position.

Adjusting Drive Control Levers

The RH and LH drive control levers can be adjusted up or down and fore-and-aft for the comfort of the operator. Proper drive control lever and seat adjustment will result in the following:

In the neutral position with hands on the control levers,

- Operator's upper arms should be relaxed and approximately vertical.
- Operator's forearms should be approximately horizontal.

In the full forward position,

- Operator's back should stay in contact with the seat back.
- Control levers should not contact operator's legs.

In the full reverse position,

- Control levers should not contact the operator's legs or torso.

Set the seat to the preferred operating position.

- Adjustment lever is located under the front edge of the seat.

Check factory settings of control levers for the conditions listed above.

Note: If control lever adjustments are required, height adjustments should be made prior to angular adjustments.

To adjust the height of the drive control levers:

1. Remove the flange lock nuts (a) that secure the carriage bolts (b) in the drive control levers. See Figure 2-5.

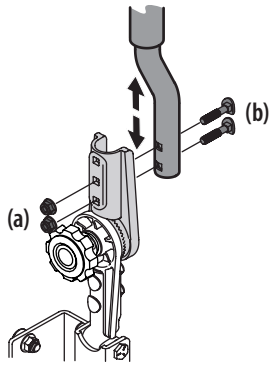

Figure 2-5

2. Remove the carriage bolts (b) from the drive control levers and reposition to the second set of holes in the mounting block. See Figure 2-5.
3. Reinstall the carriage bolts (b) and flange lock nuts (a), and tighten to 28-34 ft-lbs. See Figure 2-5.
4. The same adjustments should be made to both sides of the mower.

To adjust the front-to-rear angle of the drive control levers:

1. Loosen the control lever knob (a) to unlock the drive control levers. See Figure 2-6.

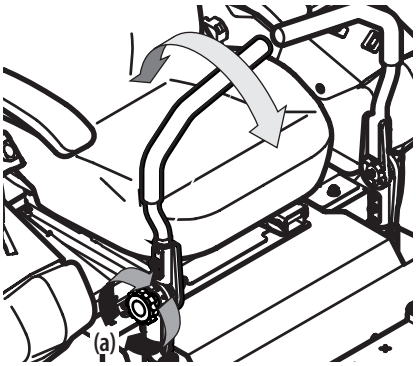

Figure 2-6

2. Move drive control levers to the desired angle and retighten the drive control knob (a) to secure the drive control levers in place.
3. Check the results of any adjustments to the conditions described above. Repeat any adjustment procedures as required until all conditions are met.

Operator's Seat

1. Remove the two flange lock nuts (b) and shoulder bolts (a) from the manual bag. See Figure 2-7.

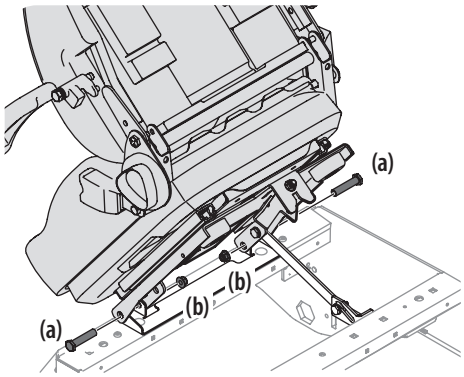

Figure 2-7

2. Place the seat into position and secure the seat into place with the hardware as shown in Figure 2-7.
3. Remove the shoulder screw (a) and flange lock nut (b) from manual bag and install the seat lockout bracket (c) as shown in Figure 2-8.

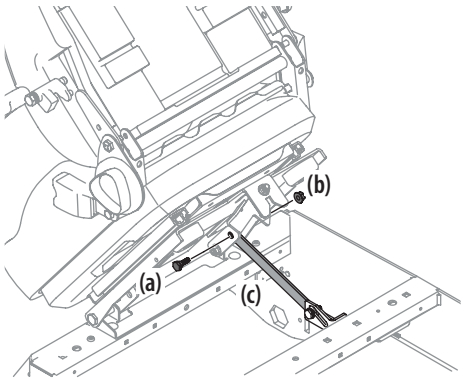

Figure 2-8

4. Insert the wiring harness (a) into the bottom of the seat as shown in Figure 2-9.

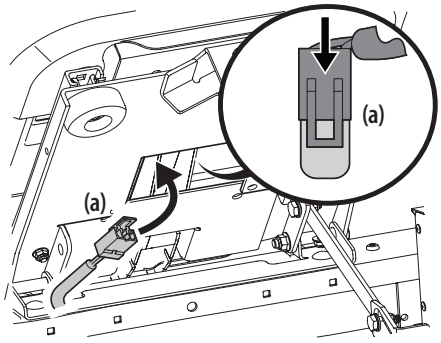

Figure 2-9

Note: When the wiring harness (a) is connected, be sure to push the excess wire from the wire harness (a) into the seat box hole before continuing.

5. Remove the screw (a) securing the recliner plate in the seat back position. See Figure 2-10.

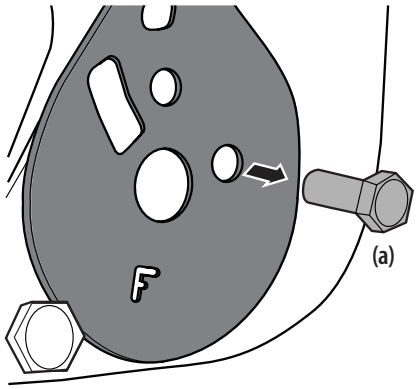

Figure 2-10

6. Tilt the seat forward into the full forward position. Replace the recliner plate with the clinch-stud (a) and the recliner pin (b) passing through the recliner plate in the locations shown in Figure 2-11.

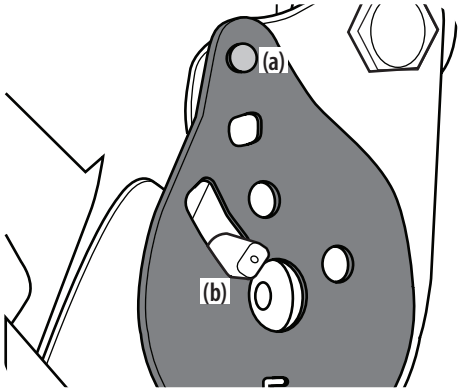

Figure 2-11

7. Remove the seat tilt knob assembly from the bag and install as shown in Figure 2-12.

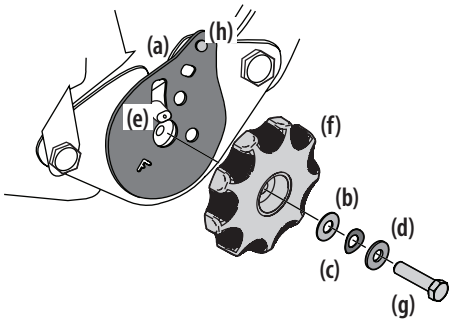

Figure 2-12

Note: Be sure to orient the recliner plate (a) and install the plastic washer (b), spring washer (c) and metal washer (d) as shown in Figure 2-12. The plastic washer is on the inside.

8. Slide the recliner bearing plate (a) onto the recliner pin (e). Refer to Figure 2-12.
9. Then align the spiral (a) on the inside of the recliner knob with the recliner pin. Make sure the hub on the back of the recliner sits properly into the large holes of the side plate. See Figure 2-13.

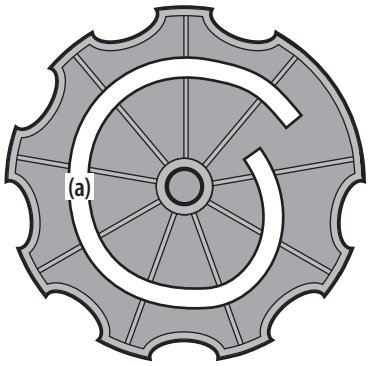

Figure 2-13

10. Use a wrench to hand tighten the hex screw (g) until the recliner knob (f) is difficult to turn. Refer to Figure 2-12.

    Note: Do not use power tools to install.
11. Gradually loosen the hex screw (g) until the recliner knob moves freely. Do not loosen the hex screw (g) more than one full turn.
12. Securely install the 1/4" nut onto the clinch-stud (h) and rotate the recliner knob to check the operation of the seat.

Seat Adjustment

Proper steering column and seat adjustment will result in the following (to adjust the seat see below):

In the neutral position with hands on the steering wheel,

- Operator's upper arms should be relaxed and approximately vertical.
- Operator's forearms should be approximately horizontal.
- Operator's back should stay in contact with the seat back.
- Steering column should not contact operator's legs.

Check the results of any adjustments to the conditions described above. Repeat any adjustment procedures as required until all conditions are met.

This machine is equipped with an adjustable seat, which includes a retractable seat belt assembly and an Operator Presence Sensor (OPS). The OPS, in the form of a switch, is integrated into the seat bottom and is connected to the machine electrical system. The OPS must be connected to the electrical wiring harness.

The seat can be adjusted forward and backward, the armrests can be adjusted up and down (700 and 900 series), the mechanical suspension mechanism weight/ride adjustment controls can be adjusted for weights between 125- and 275-pounds (500 and 700 series) or air ride adjustment (900 series), a lumbar support can be adjusted and the seat can tilt forward and backward.

Note: The seat base must be secured by the latch, otherwise, the seat assembly could tilt forward. To move the seat forward or back, locate the seat adjustment rod under the seat. Push the rod (a) to the left, slide the seat forward or back into the desired position and release the rod (a) when the seat is in the desired position. See Figure 2-14.

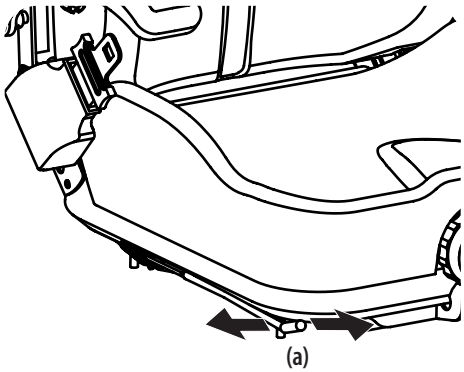

Figure 2-14

The seat tilt is controlled by the knob on the left of the seat. Turn the knob rearward to tilt the seat back, turn the knob forward to tilt the seat forward. See Figure 2-15.

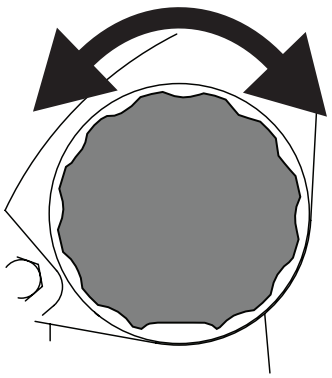

Figure 2-15

The mechanical suspension mechanism (500 and 700 series) incorporates weight/ride adjustment controls for operators in the 125 to 275 lb. weight range. Turn the knob on the front of the seat clockwise to increase the weight capacity and counter-clockwise to decrease. See Figure 2-16.

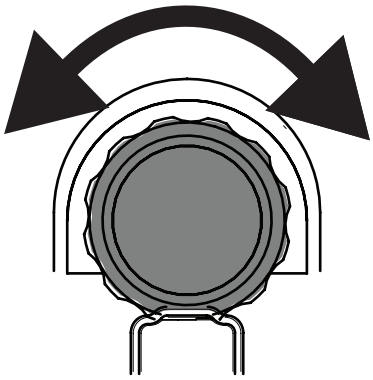

Figure 2-16

To vary the lumbar support (700 and 900 series) move the lever on the right of the seat up and down. See Figure 2-17.

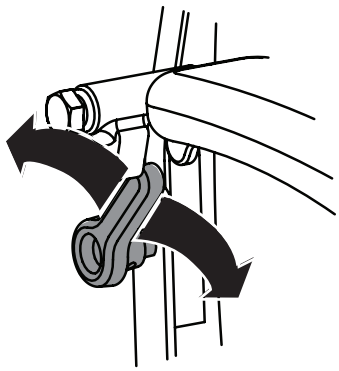

Figure 2-17

To adjust the height of the arm rests (700 and 900 series), lift the arm rest and rotate the knob under the arm rest right or left to increase or decrease the height. See Figure 2-18.

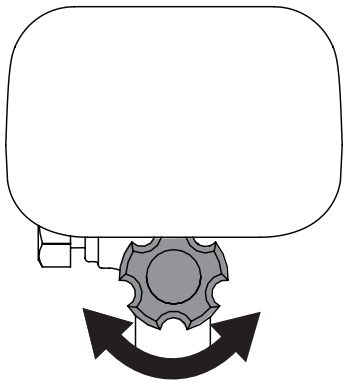

Figure 2-18

The air ride (900 series) can be adjusted up or down using the height adjustment lever on the front of the seat. Press the lever to the left (+) to raise the height of seat and to the right (-) to lower the height of the seat. See Figure 2-19.

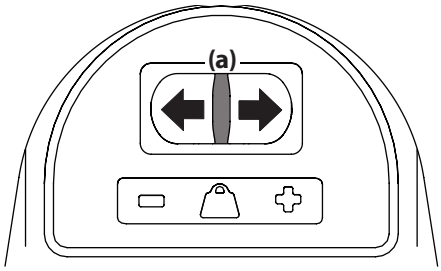

Figure 2-19

Checking Tire Pressure

⚠ WARNING

Maximum tire pressure under any circumstances is 12 psi on rear tires and 25 psi on front tires. Equal tire pressure should be maintained at all times.

Inflation Pressure

Rear Tires — 10-12 psi max

Front Tires — 20-25 psi max

The tires on your tractor may be over-inflated for shipping purposes. Reduce the tire pressure before operating the tractor. Recommended operating tire pressure is 10-12 psi on rear tires and 20-25 psi on front tires.

Lubrication & Grease Points

Before operating the tractor, refer to the Product Care section of this manual to check the lubrication and grease points. Grease and lubricate if necessary.

Connecting the Battery Cables

⚠ WARNING

California PROPOSITION 65: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

⚠ CAUTION

When attaching battery cables, always connect the POSITIVE (Red) wire to its terminal first, followed by the NEGATIVE (Black) wire.

For shipping reasons, both battery cables on your equipment may have been left disconnected from the terminals at the factory. To connect the battery cables, proceed as follows:

1. Using the lever on the back of the seat frame, lift up on the lever and tilt the seat forward locking it in place with the seat prop. Remove the bolts and hex nuts from the manual bag.

   Note: The positive battery terminal is marked POS. (+) (a). The negative battery terminal is marked NEG. (–) (b). See Figure 2-20.

   Note: If the positive cable grouping (c) is already attached, skip ahead to Step 6. See Figure 2-20.

2. Locate the cables routed through the conduit along the inward facing side of the battery and separate the positive and negative groupings (each group will be zip-tied together).

3. Slide the red boot (d), if present, back along the positive cable grouping. See Figure 2-20.

4. Attach the positive cable grouping (c) and positive cable for the 12V outlet (if equipped) to the positive battery terminal (a) with the bolt (e) and sems nut (f). See Figure 2-20.

   Note: Place the thickest cable closest to the battery terminal.

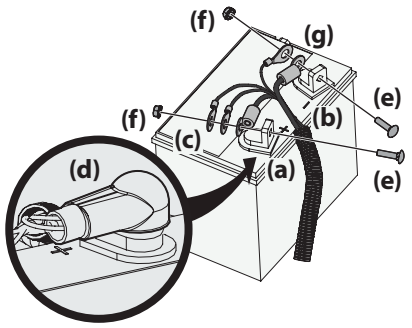

Figure 2-20

5. Position the red boot (d) over the positive battery terminal (a) to insulate it and help protect it from corrosion. See Figure 2-20.

6. Attach the negative cable grouping (g) and negative cable for the 12V outlet (if equipped) to the negative battery terminal (b) with the bolt (e) and sems nut (f). See Figure 2-20.

   Note: Place the thickest cable closest to the battery terminal.

   Note: If the battery is put into service after the date shown on top/side of battery, charge the battery prior to operating the machine.

Notes