

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

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

Refer to Figure 1 to match your transmission style; Foot Control CVT (Continuously Variable Transmission), CVT or Hydrostatic.

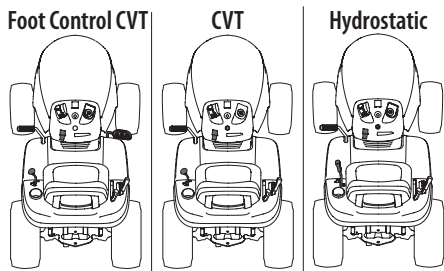


Figure 1

Manually Moving the Tractor

HYDROSTATIC MODELS (IF EQUIPPED)

1. Remove parking brake if activated.
2. Engage the transmission bypass rod to move the tractor manually without starting it. The transmission bypass rod is located on the rear of the tractor, on the frame. Engage the bypass rod by pulling out and down. See Figure 2.

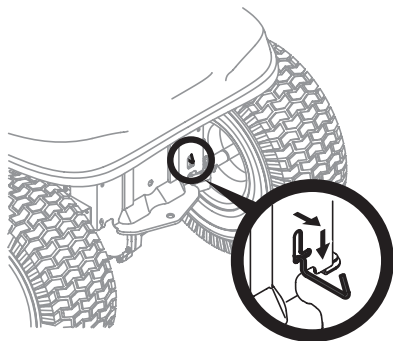


Figure 2

NOTE: If the tractor will not move or does not move freely when pushing check if the hydrostatic bypass rod is fully open or the brake is engaged.

NOTE: The transmission will NOT engage when the hydrostatic bypass rod is pulled out. Return the rod to its disengaged position prior to operating the tractor.

3. Disengage the transmission bypass rod by pushing the rod back in after moving the tractor.

CVT OR FOOT CONTROL CVT MODELS (IF EQUIPPED)

1. Release Parking Brake, if activated.
2. Place the shift lever in the NEUTRAL (N) position.

Install Operator's Seat (If necessary)

KNOB ADJUST OR BOLT ADJUST

NOTE: The seat is shipped fastened to the tractor seat's pivot bracket with a cable tie OR mounted backward to the pivot bracket. To install the seat proceed as follows:

1. Remove the seat from its shipping position.
2. Remove the seat adjustment knob or 9/16" bolt (a) from the bottom of the seat (b). See Figure 3.

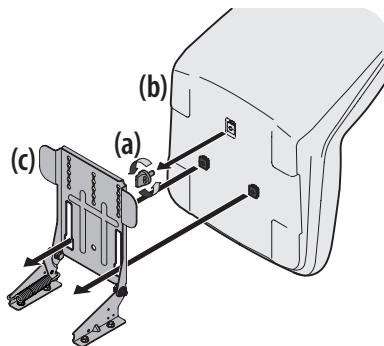


Figure 3

3. Align the seat (b) over the seat pivot bracket (c) as shown in Figure 3 and fit the seat (b) onto the seat pivot bracket (c) inserting the two tabs on the seat (b) bottom into the wide opening of the slots on the seat pivot bracket (c).
4. Slide the seat (b) rearward in the seat pivot bracket (c), lining up one of the slots in the seat pivot bracket (c) with the hole in the center rear of the seat (b) base. See Figure 4.

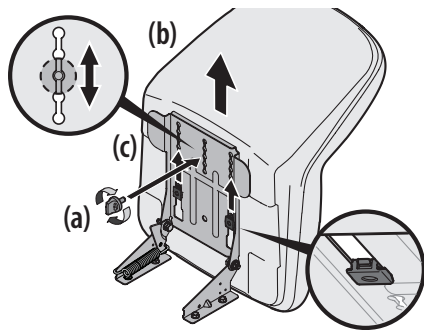


Figure 4

NOTE: Be certain the two seat tabs engage the seat pivot bracket as shown in the bottom right inset of Figure 4.

5. Select the desired position for the seat (b), and secure with the adjustment knob or 9/16" bolt (a) removed in Step 2.

LEVER ADJUST

NOTE: The seat is shipped with the seat switch and seat pan attached.

1. Cut any straps securing the seat assembly to the tractor.
Remove any packing material.

NOTE: Be careful not to cut the wiring harness connecting the seat and the seat switch.

2. Remove the two shoulder bolts (a) and flange lock nuts (b) in the seat pan as shown in Figure 5.

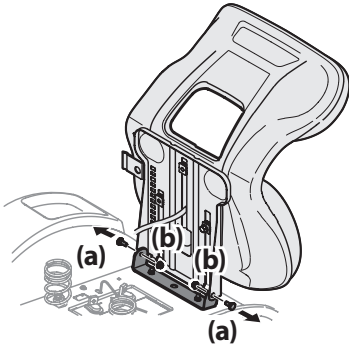


Figure 5

3. Rotate the seat into position and slide a Phillips screwdriver through one of the seat-securing holes and seat bracket for alignment.
4. With the previously removed shoulder bolts (a) and flange lock nuts (b) secure one side of the seat and seat bracket. While supporting the seat, remove the Phillips screwdriver and secure the other side of the seat. Be careful not to crimp or damage the wire harness while installing the seat. See Figure 6. Torque to 84-103 in-lbs (10-12 N-m).

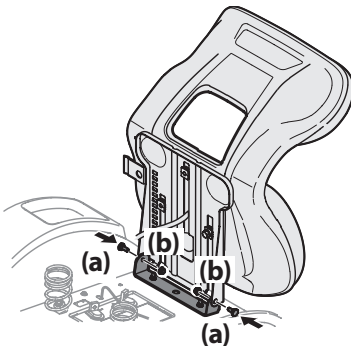


Figure 6

5. Using the harness clip attached to the harness, secure the excess wire to the fender by snapping the harness clip in place as shown in Figure 7.

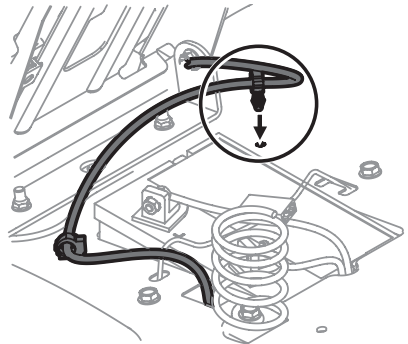


Figure 7

Dash Shroud (If equipped)

1. If the dash shroud (a) was shipped loose, the hardware for attaching the dash shroud (a) is shipped attached to the dash shroud (a). Remove the two bolts (b) from the dash shroud (a). See Figure 8.
2. Mount the dash shroud (a) and align the mounting holes between the top of the dash and the dash shroud. See Figure 8.
3. Secure the dash shroud (a) to the dash (c) with the bolts (b) removed in Step 1. See Figure 8.

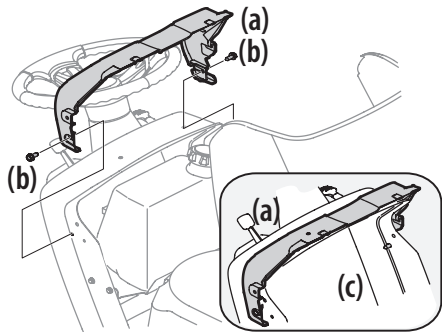


Figure 8

Attaching the Hood Topper (If necessary/ If equipped)

NOTE: Be careful not to damage the headlight harness when installing the hood topper.

1. Cut the cable ties securing the hood topper to the tractor.
2. Remove the four screws pre-installed in the hood topper and retain for Step 4.

3. Snap the hood topper into place using the hood as your guide. See Figure 9.

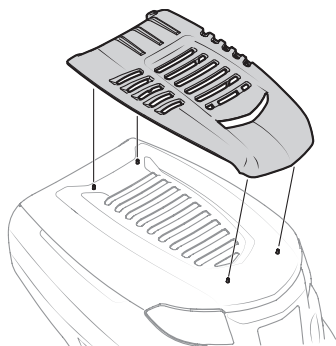


Figure 9

4. Install the hood topper onto the hood of the tractor and secure from the underside using the four screws removed in Step 2.

Installing the Steering Wheel (If necessary)

The hardware for attaching the steering wheel has been packed within the steering wheel, beneath the steering wheel cap. Carefully pry off the steering wheel cap and remove the hardware.

IMPORTANT! Do not use impact tools to install or remove the steering wheel. Doing so can over-torque and damage the fastener.

1. Remove the key, attached with a cable tie to the steering wheel.
2. With the front wheels of the tractor pointing straight forward, align the steering wheel (a) and place it onto the steering shaft (b). See Figure 10.

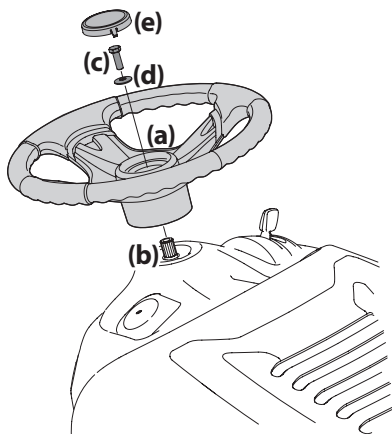


Figure 10

3. Secure the steering wheel (a) with the hex bolt (c) and washer (d) from under the steering wheel cap (e) and torque to 18-22 ft-lbs (24-30 N-m). See Figure 10.
4. Place the steering wheel cap (e) over the center of the steering wheel (a) and push downward until it "clicks" into place. See Figure 10.

NOTE: The hex bolt (c) securing the steering wheel (a) has thread locker applied to it, so if it is removed, it is recommended that the hex bolt (c) be replaced or thread lock re-applied.

Lower Deck Discharge Chute Deflector (If equipped)

WARNING

Never operate the mower deck without the chute deflector installed and in the down position.

46" DECK MODELS

1. Remove the key attached with a zip tie to the chute bracket.
2. Remove the flange lock nut and hex screw from the deck.
3. Place the chute deflector on the deck, be sure to insert the tabs on the chute deflector into the holes on the deck. See Figure 11.
4. Slide the chute deflector toward the rear of the tractor until the bolt hole in the chute deflector aligns with the hole in the deck. See Figure 11.
5. Secure the chute deflector in place with the flange lock nut and hex screw removed in Step 2. Tighten to 102-124 in-lbs (12-14 N-m). See Figure 11. Skip ahead to Setting the Deck Wheels.

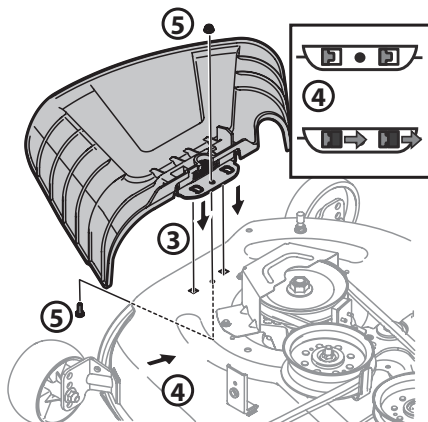


Figure 11

38"/42"/50"/54" DECK MODELS

1. Check the tractor deck for a shipping brace that may be holding the chute deflector upward for shipment. If the shipping brace is present, it must be removed before operating the tractor. Holding the chute deflector fully upward, remove the shipping brace.
2. Lower the chute deflector and discard the shipping brace. See Figure 12.

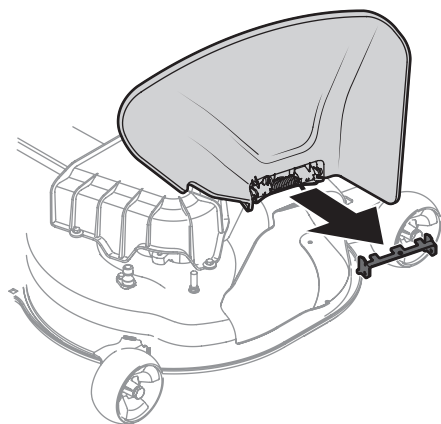


Figure 12

NOTE: 36" deck models come equipped with mulch plugs rather than chute deflectors and no shipping brace is included.

Setting the Deck Wheels (If equipped)

NOTE: The deck wheels are an anti-scalp feature of the deck and are not designed to support the weight of the cutting deck.

1. Move the tractor to a level surface, preferably pavement.
2. Check the tire pressure, adjust, if necessary. See tire sidewall for proper tire pressure.
3. Make sure the deck is level side-to-side and properly pitched. See the Service and Maintenance section for deck leveling information and instructions.
4. Place deck lift lever in the desired mowing height position.
5. Check the wheels for contact or excessive clearance with the surface below.

NOTE: The deck wheels should have between 1/4"-1/2" (6.35 mm-12.7 mm) clearance above the ground. Proceed as follows to adjust the wheels:

- a. Raise the deck lift lever to its highest setting.
- b. Remove the front (a) and rear (b) deck wheels by removing the flange lock nuts (c) and shoulder bolts (d) that secure them to the deck. See Figure 13.

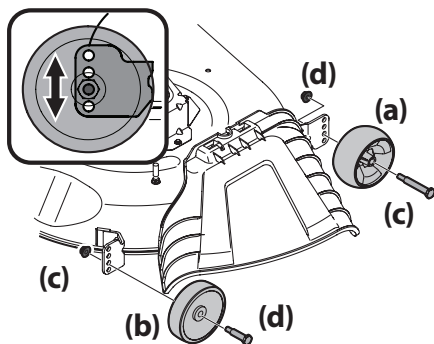


Figure 13

- c. Place the deck lift lever in the desired mowing height setting.
- d. Reinsert the shoulder bolt (with each deck wheel) into the index hole that leaves approximately 1/2" (13 mm) between the bottom of the wheel and the pavement. Tighten the flange lock nut and shoulder bolt to between 25-30 ft-lbs (34-40 N-m) using a torque wrench.

NOTE: Refer to Leveling the Deck in the Service and Maintenance section of this manual for more detailed instructions regarding various deck adjustments.

Battery Information

⚠ WARNING

CALIFORNIA PROPOSITION 65 WARNING:

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.

⚠ WARNING

Should battery acid accidentally splatter into the eyes or onto the skin, rinse the affected area immediately with clean cold water. Seek prompt medical attention.

If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.

NEVER connect (or disconnect) battery charger clips to the battery while the charger is turned on, as it can cause sparks.

Keep all sources of ignition (cigarettes, matches, lighters) away from the battery. The gas generated during charging can be combustible.

As a further precaution, only charge the battery in a well ventilated area.

Always shield eyes and protect skin and clothing when working near batteries.

Batteries contain sulfuric acid and may emit explosive gases. Use extreme caution when handling batteries. Keep batteries out of the reach of children.

⚠ CAUTION

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

NOTE: The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

CONNECTING THE BATTERY CABLES

⚠ WARNING

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

For shipping reasons the factory may leave both battery cables disconnected from the terminals. To connect the battery cables, proceed as follows:

1. If present, remove the plastic cover from the positive battery terminal. Attach the red connector to the positive battery terminal (+) using the bolt (a) and hex nut (b). See Figure 14.
2. If present, remove the plastic cover from the negative battery terminal and attach the black cable to the negative battery terminal (-) with the bolt (a) and hex nut (b). See Figure 14.

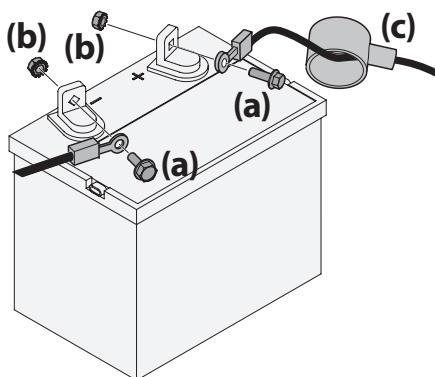


Figure 14

3. Position the red rubber boot (c) over the positive battery terminal to help protect it from corrosion.

NOTE: If the battery is put into service after the date shown on top/side of battery, charge the battery as instructed in the Charging the Battery section on page 13 prior to operating the tractor.

BATTERY MAINTENANCE

- The battery is filled with battery acid and then sealed at the factory. However, even a "maintenance free" battery requires some maintenance to ensure its proper life cycle.
- Spray the terminals and exposed wire with a battery terminal sealer, or coat the terminals with a thin coat of grease or petroleum jelly, to protect against corrosion.
- Always keep the battery cables and terminals clean and free of corrosion.
- Avoid tipping. Even a sealed battery will leak electrolyte when tipped.

BATTERY STORAGE

- When storing the tractor for extended periods, disconnect the negative battery cable. It is not necessary to remove the battery.
- All batteries discharge during storage. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge more rapidly.
- The battery must be stored with a full charge. A discharged battery can freeze sooner than a charged battery. A fully charged battery will store longer in cold temperatures than hot.
- Recharge the battery before returning to service. Although the tractor may start, the engine charging system may not fully recharge the battery.

BATTERY REMOVAL

⚠ WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

The battery is located beneath the seat frame. To remove the battery:

1. Remove the battery hold down bracket by pushing the hooked end out of the tab on the fender to the right side of the battery. Then flip the battery hold-down bracket up to free the battery. See Figure 15.

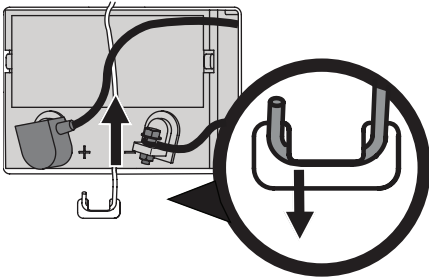


Figure 15

2. Remove the bolt and hex nut securing the black negative battery lead to the negative battery post (marked NEG). Move the cable away from the negative battery post.
3. Remove the bolt and hex nut securing the red positive battery lead to the positive battery post (marked POS).
4. Carefully lift the battery out of the tractor.
5. Install the battery by repeating the above steps in the reverse order.

CHARGING THE BATTERY

Test and, if necessary, recharge the battery after the tractor has been stored for a period of time.

- A voltmeter or load tester should read 12.7 volts (DC) or higher across the battery terminals. See Figure 16.

Voltmeter Reading	State of Charge	Charging Time
12.7	100%	Full Charge
12.4	75%	90 Min.
12.2	50%	180 Min.
12.0	25%	280 Min.

Figure 16

- Charge the battery with a 12-volt battery charger at a MAXIMUM rate of 10 amps.

Adjusting the Seat

KNOB ADJUST OR BOLT ADJUST

To adjust the position of the seat, remove the adjustment knob or 9/16" bolt (a) on the bottom of the seat (b). Slide the seat (b) forward or backward as desired. Reinstall the adjustment knob or 9/16" bolt (a). See Figure 4.

LEVER ADJUST

To adjust the position of the seat, lift the seat adjustment lever up. Slide the seat forward or rearward to the desired position; then release the adjustment lever. Make sure seat is locked into position before operating the tractor. See Figure 17.

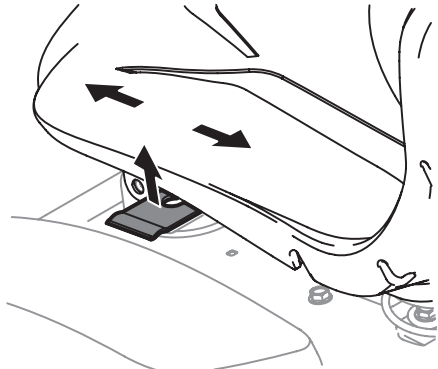


Figure 17

Oil

NOTE: Your tractor is shipped with oil in the engine. However, you **MUST** check the oil level before operating. See the Engine Operator's Manual for instructions on checking, adding and changing oil.

⚠ CAUTION

Always check the engine oil level before each use as instructed in the Engine Operator's Manual. Add oil as necessary. Failure to do so may result in serious damage to your engine.