Installation Instructions

A-arm Installation Procedure

For all IS3100Z and IS5100Z Models

Correct Procedure for Installing A-arms

Field reports indicate that if the correct procedure for installing an a-arm onto your zero-turn riding mower is not followed, it can cause unnecessary and immediate stress on the a-arm which could lead to premature failure. When replacing an a-arm on your zero-turn riding mower please use the following procedure to ensure that the a-arms are installed correctly.

A WARNING



Remove the ignition key prior to performing maintenance on the unit.

Before beginning any service work turn off the PTO, engage the parking brake, turn off the ignition, remove the ignition key, and disconnect the spark plug wire(s).

- 1. Park machine on a flat, level surface and engage the parking brake. Disengage the PTO switch, turn off the engine and remove the key from the ignition.
- 2. Lock the deck lift pedal (A, Figure 1) in the TRANSPORT position by pushing the deck lift pedal all the way forward. Remove the cutting height adjustment pin (B) and lower the mower deck to its lowest position, push the pedal by hand towards the rear of the unit. Install the cutting height adjustment pin (B) in the front of the deck lift pedal arm to prevent the pedal from moving forward.
- 3. Chock the front wheels to prevent the machine from rolling.
- 4. Raise the rear of the machine and support with jack stands. Do not place the jack stands under the wheel motors or a-arms.
- 5. Block up the mower deck until all hanger chains are slack.
- 6. Remove the rear tire.
- 7. Disengage the parking brake. Disconnect the adjustment link (A, Figure 2) from the brake lever (B).
- 8. **3100 Models Only** Refer to Figure 3. Measure the distance from the top of the shock adjustment bracket to the top of the jack bolt platform. This measurement will be needed for reassembly. Loosen all hardware (A, Figure 3) that secures the upper half of the shock assembly (B) to the adjustment bracket.
- 9. 5100 Models Only Remove all hardware (A, Figure 4) that secures the lower half of the shock assemblies (B) to the wheel motor mount (C).

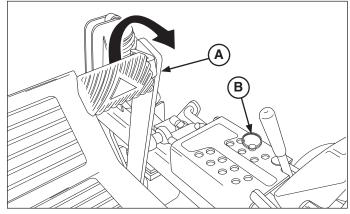


Figure 1. Locking the Deck A. Deck Lift Pedal

B. Height Adjustment Pin

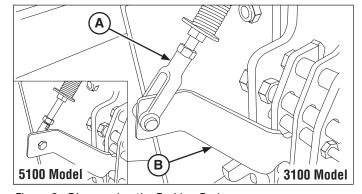


Figure 2. Disengaging the Parking Brake A. Adjustment Link

B. Brake Lever

- Remove all 1/2" hardware (D, Figure 3 & 4) securing the top a-arm (E) to the frame and wheel motor mount. Clean all dirt and grease from the inside surfaces of the frame and wheel motor tabs.
- 11. Install the new a-arm onto the frame. Loosely install the $1/2-13 \times 3$ " allen head bolts and 1/2-13 nylon lock nuts. Do not tighten at this time.
- 12. Install the $1/2-13 \times 6 \times 1/2$ " bolt (**D**) from the rear of the machine and secure the top a-arm to the wheel motor mount. Do not tighten at this time.
- 13. Repeat steps 10 12 to replace the bottom a-arm (F).
- 14. Place a 2" tall spacer (**A**, **Figure 5**) in between the wheel motor mount (**C**) and the a-arm mount brace as shown. See Figure 5.
- Tighten all 1/2" hardware securing the a-arms to the frame and wheel motor mount. Torque to 110 ft/lbs (149 Nm). Remove 2" spacer.
- 16. **3100 Models Only** Tighten all previously loosened hardware (**A**, **Figure 3**) that secured the shocks (**B**) to the adjustment bracket. Use the measurements taken in step 8 to adjust the shock properly.
- 17. **5100 Models Only** Reinstall the previously removed hardware (**A**, **Figure 4**) that secured the shocks (**B**) to the wheel motor mount (**C**).
- 18. Reconnect the adjustment link to the brake lever and secure with the hair pin or bolt previously removed. See Figure 2.
- 19. Re-install the tire, torque wheel lugs to 120 ft/lbs (163 Nm).

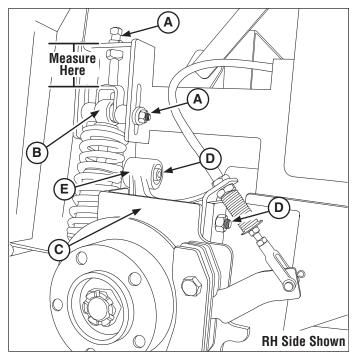


Figure 3. Replacing the A-Arms (IS3100 Models)

- A. 1/2" Shock Assembly Hardware
- B. Shock Assembly
- C. Wheel Motor Mounts
- D. 1/2" A-Arm Hardware
- E. Top A-Arm

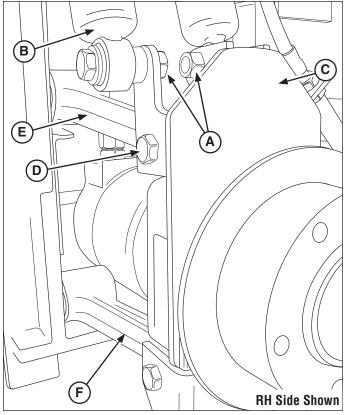


Figure 4. Replacing the A-Arms (IS5100 Models)

- A. 1/2" Shock Assembly Hardware
- B. Shock Assembly
- C. Wheel Motor Mounts
- D. 1/2" A-Arm Hardware
- E. Top A-Arm
- F. Bottom A-Arm

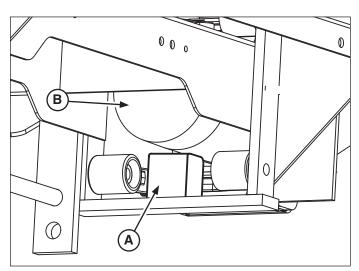


Figure 5. Spacing the Wheel Motor Mount

- A. 2" Spacer
- B. Wheel Motor Mount