

## 660HD Case STX Quad 480-530 With Hubs

## **Undercarriage Installation Instructions**

## Caution:

- Always use precaution when working around any equipment.
- Always wear safety glasses.
- Follow tractor manufacturer's safety guidelines when installing this product.
  - **1.** Read all instructions prior to installation.
  - 2. Remove existing toolboxes and tow cable holder if equipped.
  - **3.** Remove the 2 24mm bolts and spacers from the front axle on the left and right side of the tractor. Discard the spacers.
  - **4.** Install the yoke brackets (PN: 18-5170-R,L) (see attached diagram for correct orientation). Dip the previously removed 24mm bolts in W30 oil and install with a heavy flat washer (PN: 57-20819) on each bolt and tighten finger tight.
  - **5.** Remove the bottom 2 bolts from the front nose casting on each side of the tractor for undercarriage (U/C) clearance.
  - **6.** Insert 6 20mm x 90mm bolts (PN: 16-1510) with a 0.91" ID heavy washer (PN: 57-11659) on each of the bolts into the front vertical slots at the front of the U/C. See attached diagram for clarification.

Caution: When lifting the undercarriage, be aware of the 20mm x 90mm bolts so that you do not damage the threads.

- **7.** Position the undercarriage under tractor and center on the frame of the tractor. Lift U/C to within 3/4" of touching the tractor frame.
- **8.** Push the U/C back until the vertical push plates are firmly against the cross member. Clamp the rear mounting ears to the cross member to prevent movement of the U/C.
- **9.** Insert the 20mm x 90mm bolts (PN: 16-1510) with washers from Step #6 into the tractor frame. Tighten until frame is tight vertically.
- 10. Reinstall the front nose casting bolts removed in Step #5.
- **11.** Verify that the rear mounting ears and the vertical push plates are still tight against the cross member and that the yoke bracket holes line up with the U/C holes.
- **12.** Using the two holes in the ears as guides, drill 2 1" holes through the cross member and install 2 1" x 3" bolts (PN: 16-20562) with a 1" nut (PN: 70-20599) on each bolt. Tighten finger tight.
- **13.** Using the U/C as a guide, drill the 12 1" holes through the side of the tractor frame.

Caution: When drilling, be aware of all parts behind the material being drilled so that you do not mistakenly hit or puncture components on engine side of tractor frame.

- **14.** Attach each yoke bracket to the U/C with 4 3/4" x 3" bolts (PN: 16-20222), 8 3/4" ID heavy washers (PN: 57-3680), and 4 3/4" nuts (PN: 70-20607) in the bottom 4 holes. Use a 1" x 3-1/2" bolt (PN: 16-20564), 2 1" heavy washers (PN: 57-3682), and a 1" nut (PN: 70-20599) in the top hole of each yoke bracket.
- **15.** Attach the side plates of the U/C to the tractor frame with 4 1" x 3" bolts (PN: 16-20562), 8 1" heavy washers (PN: 57-3682), and 4 1" nuts (PN: 70-20599) on each side of the U/C. See attached diagram for clarification.
- **16.** Insert 4 1" x 3-1/2" bolts (PN: 16-20564) with a 1" heavy washer (PN: 57-3682) on each bolt into the 4 side holes on each side of the U/C and the drilled holes in the tractor frame. See attached diagram for clarification.
- **17.** After all 8 bolts are through the tractor frame, attach with a 1" heavy washer (PN: 57-3682) and 1" nut (PN: 70-20599) on each bolt.
- 18. Once all bolts have been installed, torque the two rear ear 1" bolts to 903 ft. lbs.
- 19. Torque the 4 24mm bolts to 555 ft·lbs. and the 8 3/4" yoke bracket bolts to 257 ft·lbs.
- 20. Torque the 6 20mm front vertical bolts to 432 ft·lbs., and the remaining 1" bolts to 903 ft·lbs.
- 21. If tow cable is available, install the tow cable bolting plate (PN: 44-12790) in between the 2 plates on the left side of the undercarriage. Attach with 2 3/4" x 3" bolts (PN: 16-20222), 4 3/4" flat washers (PN: 57-20747), and 2 3/4" lock nuts (PN" 70-20607. Torque the 3/4" bolts to 257 ft·lbs.
- **22.** Attach the latching plate (PN: 44-12789) to the bolting plate with a 3/4" x 2" bolt (PN: 16-20218) and 3/4" lock nut (PN: 70-20607).
- **23.** Hook the tow cable on the tow cable bolting plate. Position the latching plate so the cable stays in place. Lock the latching plate with a lynch pin (PN: 43-9360). See attached diagram for clarification.
- **24.** After first 8 hours of use, re-torque all bolts.
- **25.** Check all fasteners regularly to ensure proper operation of equipment.

