

FH-400 Case - Puma Tier 4 (W/Out Loader)Series

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 either the weights and weight bracket or the front nose casting from the front of tractor.
 - **3.** Install 2 1" x 3" bolts (PN: 16-20562) and 2 1" nuts (PN: 70-20599) on the end of the undercarriage. Turn the 1" bolts in for installation. The bolts will be adjusted after the push pole is installed. See the attached diagram for proper installation of the bolts and nuts.
 - 4. Position the undercarriage (U/C) under the tractor and center with the frame of the tractor.
 - 5. Lift the U/C until the holes on the tractor line up with the holes on the U/C.
 - **6.** Insert 4 24mm x 150mm bolts (PN: 16-1875) through the top 4 holes of the U/C first and then the tractor frame.
 - **7.** Once the bolts are through the tractor frame, install a 1" heavy clipped washer (PN: 57-3098) and 24mm nut (PN: 70-20874) on each 24mm bolt.
 - **8.** Insert 2 20mm x 100mm bolts (PN: 16-1877) and 2 3/4" flat washers (PN: 57-20747) through the bottom 2 holes of the U/C and the tractor frame.
 - **9.** Once the bolts are through the tractor frame, install a 3/4" flat washer (PN: 57-20747) and 20mm nut (PN: 70-3494) on each 20mm bolt.
- **10.** Remove the hardware attaching the exhaust support to the right side of the tractor. If there is a spacer with the exhaust support, the spacer will be used when installing the right rail. Remove the hardware attaching the exhaust to the exhaust support. While keeping the exhaust in the same location, slide the support out to make room for installing the right rail in step #12. Reattach the exhaust to the exhaust support.
- **11.** Use 4 20mm x 90mm bolts (PN: 16-1510) with a 3/4" flat washer (PN: 57-20747) on each bolt in the holes of the left rail (PN: 46-15545-L) to attach the left rail to the tractor frame.
- **12.** Use 4 20mm x 100mm bolts (PN: 16-1877) with a 3/4" flat washer (PN: 57-20747) on each bolt in the holes of the right rail (PN: 46-15545-R) to attach the the spacer, exhaust support, and right rail to the tractor frame. See attached diagram for any clarification.
- **13.** Attach the left and right rails to the left and right sides of the undercarriage with 3 1" x 2-1/2" bolts (PN: 16-20560), 6 1" heavy flat washers (PN: 57-20819), and 3 1" nuts (PN: 70-20599) for each side.
- **14.** Once all bolts are installed, torque the front 24mm bolts to 909 ft-lbs., the front 20mm bolts to 432 ft-lbs., the remaining 20mm bolts to 432 ft-lbs., and all 1" bolts to 903 ft-lbs.

- **15.** Position the push pole (PN: 17-15555) under the tractor. See the attached diagram for correct orientation of the push pole.
- **16.** Slide the push pole onto the rod at the rear of the undercarriage.
- **17.** Support the drawbar bracket and remove the four bolts from the drawbar under the rear axle.
- **18.** Attach the push pole to the drawbar under the rear axle with 4 18mm x 80mm bolts (PN: 16-1815080) and 4 3/4" flat washers (PN: 57-20747).
- **19.** Push the push pole back until it is tight against the tractor's drawbar bracket. Torque the 18mm bolts to 405 ft-lbs. See attached diagram for any clarification.
- **20.** Unscrew the two 1" x 3" bolts at the rear of the undercarriage until they are tight against the push pole. Torque the 1" bolts to 90-95 ft-lbs. Tighten the nuts up tight against the undercarriage. Use the nuts to lock the bolts in place
- **21.** To attach the hood latch bracket (PN: 18-11990) to the top of the U/C insert 3 3/8" x 1" carriage bolts (PN: 16-21064) from the bottom. Install a 3/8" lock washer (PN: 57-20762) and a 3/8" nut (PN: 70-20582) on each carriage bolt. See attached diagram for any clarification.
- 22. After first 8 hours of use, re-torque all bolts.
- **23.** Check all fasteners regularly to ensure proper operation of equipment.

