SHOCKER HD BOLT ON VERTICAL CHANNEL TONGUE ADAPTER INSTALL INSTRUCTIONS - SH-430

SH-430 INSTALLATION INSTRUCTIONS

1. SETUP
Support the trailer with jack stands. Remove the factory coupler and existing trailer jack. Slide the assembled adapter onto the aluminum A-frame to find the best fit.

2. MARK AND DRILL
Use existing factory holes as a template to mark the adapter. Space bolts evenly, and choose locations that avoid trailer wiring, gas tanks and other obstructions.
- 14K SIDE mounting: TWO bolts on EACH side (four total).
- 20K SIDE mounting: FOUR bolts on EACH side (eight total).
- 20K TOP mounting: THREE bolts total.

The two 20K patterns are separate approved options; top AND side bolts are not required together. Select the pattern appropriate to the trailer frame and clearance. Remove the adapter; drill the marked holes with a 17/32-inch drill bit. Refit the adapter onto the A-frame and check that all holes align.

3. SELECT AND INSTALL HARDWARE
Use Grade 8 1/2-13 bolts, Grade 8 1/2-13 lock nuts and 1/2-inch washers on both sides. Bolt length depends on the beam dimension through which the bolt passes: measure that dimension and add 1-1/4 inches. For a 2-inch beam, use a 3-1/4-inch bolt. Top mounting generally requires longer bolts; measure that mounting direction. Insert each bolt with a washer and ensure 1 inch of thread protrudes beyond the opposite side of the trailer frame. Add the second washer and hand-tighten the lock nut. Repeat for all bolts. Use 3/4-inch tools and tighten the frame-mounting bolts to 100 ft-lb. Verify final torque with a torque wrench.

4. INSTALL THE ATTACHMENT
Once the adapter is firmly bolted to the factory A-frame, install the compatible vertical-channel accessory using that accessory's own hardware and instructions. Recommended attachments include a Demco EZ Latch coupler or Shocker Air Trailer Tongue Mount. The 100 ft-lb specification above is for the SH-430 frame bolts; do not apply it to accessory-to-channel hardware.

Towing capacity is limited by the lowest-rated component. Confirm the trailer frame, adapter and accessory are suitable for the intended load before towing.

Engineering clarification incorporated September 24, 2026; source approval Sept. 23. For different frame geometry or uncertain fitment, contact Shocker Hitch before drilling.

Instructions Page

YouTube Channel

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