

Installation Instructions

Model RV1, RV2 and RV3 Fifth Wheel Adapter for Gooseneck Ball

Fits Standard Trailer King Pin Box
and 2-5/16" Gooseneck Ball



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RV1 / RV2 / RV3 7/06

SAFETY CHAIN REQUIREMENT

CAUTION: DO NOT TOW A TRAILER USING THE Fifth Wheel Adapter WITHOUT ADEQUATE SAFETY CHAINS.

All states require **safety chains** for wagons and trailers used on public roads, and commercial vehicles are required by federal law to have safety chains. Safety chains are intended to keep the trailer under control in the event hitch connections fail. Safety chains must be attached to the trailer at a point at least as strong as the chain. Do not weld safety chains to the trailer because welding will weaken the welded chain link and the link or weld may fail in an accident. Your PopUp Fifth Wheel Adapter installer or local trailer dealer can supply suitable safety chains.

INSTALLATION PROCEDURE

CAUTION: Verify the quality of all existing welds in the king pin box assembly.

CAUTION: Verify adequate trailer swing clearance between trailer nose and cab of truck, and trailer and rear of truck.

1. Remove lube plate if so equipped and thoroughly de-grease the king pin and the bottom of the king pin plate before proceeding. Position the large hole Top Adapter Box over your king pin and against your king pin box with a plain side of the Top Adapter Box facing forward. Square the Top Adapter Box to your king pin box and secure in this position with vise clamps. See Fig. D.

2. Position the King Pin Clamp on the king pin with the two 3/4" holes accessible through the large holes in the side of the Top Adapter Box. Insert two 3/4" bolts and snug. Square the King Pin Clamp to the adapter and torque bolts to 250 ft. lbs. See Fig. A and Fig. B. Snap the Hole Plugs into the access holes.

3. Tighten the four Cup Point Set Bolts in the King Pin Clamp. Torque to 85 ft. lbs. See Fig. C.

4. **It is necessary to bolt the Top AdapterBox to the king pin box:**

Bolting to a 10" X 10" or larger king pin plate, that is at least 1/4" thick: Install the eight 3/8" bolts provided in the four holes closest to the corners of the king pin plate. Bolts should also be installed in the four center holes on all four sides of the king pin plate if fitting them is possible.

If you have access inside the king pin box, drill 3/8" holes and use washers and nuts to fit the 3/8" bolts. Torque to 28 ft.lbs. If the king pin box is sealed, mark the hole centers, drill 5/16" holes and tap to 3/8"-16. Fit the 3/8" bolts. Torque to 20 ft. lbs.

Under-Size King Pin Plate: A king pin plate that is smaller than 10" X 10" requires welding for a safe installation. When it is not possible to bolt through the perimeter mounting holes, have a qualified welder apply a stitch-weld where the king pin plate and Top Adapter Box meet. (Example: A 9" deep and 12" wide plate can use 3/8" bolts in the side holes but requires a stitch-weld across the front and back perimeter.)

Light Gauge King Pin Plate: A king pin plate less than 1/4" thick should not be drilled and tapped for installing the 3/8" perimeter mounting bolts. For these installations, use heavy washers with nuts on the top side of the king pin plate. If access inside the king pin box is not possible, have a qualified welder apply a stitch-weld around the perimeter where the king pin plate and Top Adapter Box meet.

5. Insert the Bottom Adapter Box into the Top Adapter Box with the gooseneck coupler pointing forward. Secure using eight 5/8" flange head bolts. The length of adapter can be set in 1" increments between 12" and 16". Torque these bolts to 150 ft. lbs.

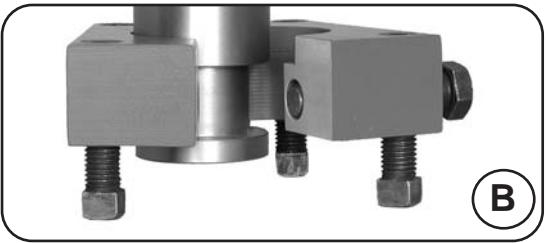
6. Attach the coupler release cable to the coupler lever with a cable clamp. Route the cable up and rearward through eye-bolts to near the trailer jack switch or handle. Secure the cable to an eyebolt near the trailer jack switch or handle with a cable clamp in such a way that the coupler can be un-latched by pulling on the cable while standing at the trailer jack switch or handle. Coupler will latch automatically when lowered onto gooseneck ball. Lubricate the inside of the coupler with a thin film of lithium grease.

7. Always use safety chains when towing with an RV Fifth Wheel Adapter. **See SAFETY CHAIN REQUIREMENT above.**



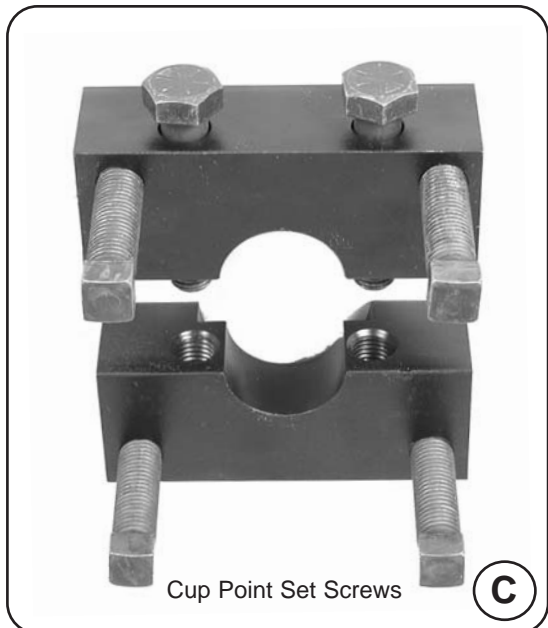
A

Cutaway view showing King Pin Clamp installed.



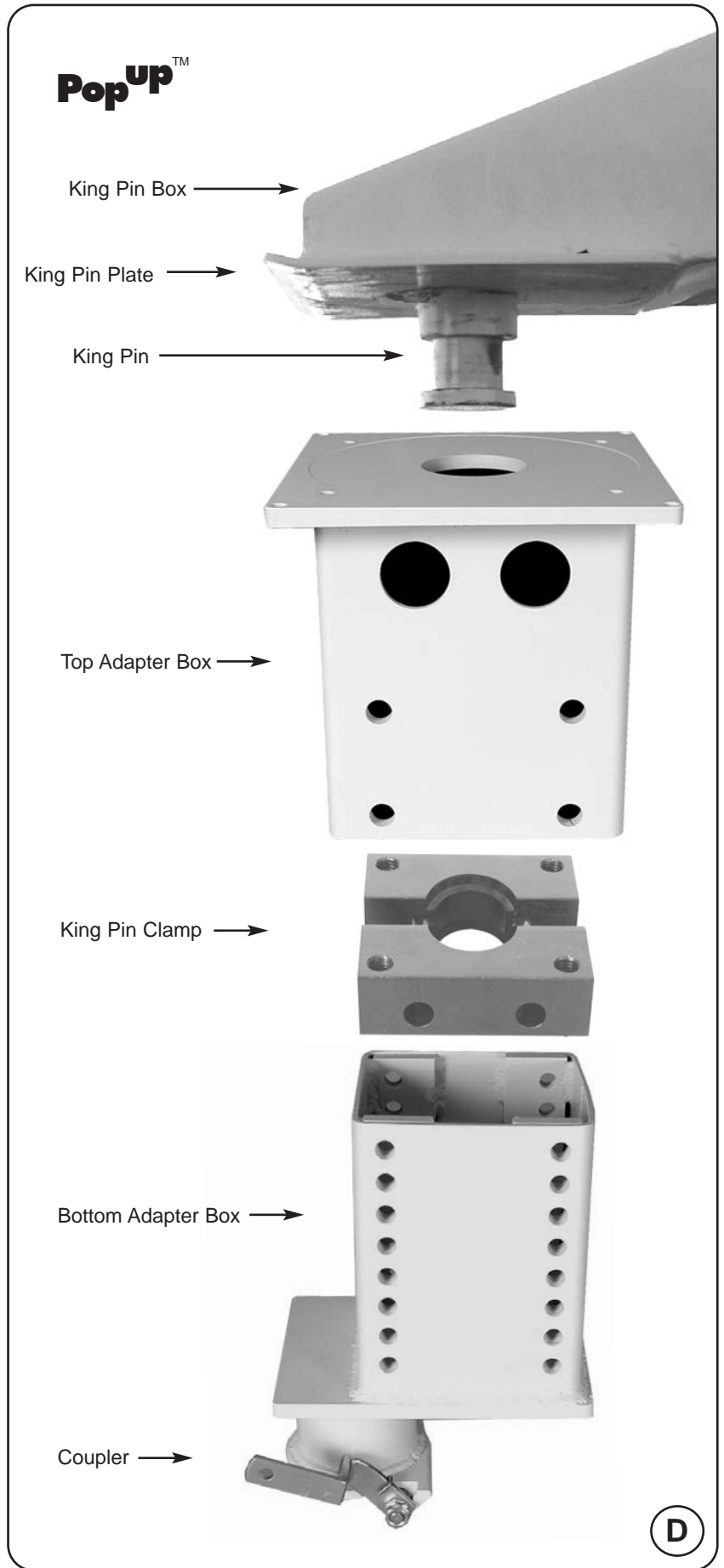
B

King Pin Clamp being fitted to king pin.



C

Bottom view of King Pin Clamp with Clamping Bolts & Cup Point Set Bolts.



D

King pin box and RV1 Adapter components.