

## Installation Instructions

### Model 116 Dodge RAM

Fits 1994- 2001

Long & Short Bed - 1/2, 3/4 & 1 Ton

Fits 2002

Long and Short Bed- 3/4 & 1 Ton



**PopUp**®  
Towing Products  
Mfg by Young's Products, LLC  
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Chanute, KS 66720  
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## MODEL 116 11-2010 FOR THE SAFEST INSTALLATION

**WARNING** Most pick up trucks have **FUEL LINES** and/or **BRAKE LINES** and/or **ELECTRICAL WIRING** positioned along the truck frame rails where your PopUp hitch will install. **BEFORE INSTALLATION** identify and examine the location of fuel lines, brake lines and electrical wires. Be sure you will not damage fuel lines, brake lines or electrical wiring when positioning PopUp hitch components, drilling holes or tightening fasteners. **Be Certain To Avoid Fuel Tanks When Drilling Holes.**

- Wear Safety Glasses, Gloves and Particle Mask for protection while installing a PopUp gooseneck hitch.
- ALWAYS correctly chock tires prior to raising truck with jacking device. For protection in case of jacking device failure ALWAYS use Jack Stands when working under or around a truck which has been raised by a jacking device.
- Be certain the exhaust system to cool prior to installation to avoid possible burns from hot tail pipe and muffler.
- Torque ALL fasteners used in the PopUp gooseneck hitch installation as specified in these Installation Instructions.

## INSTALLATION PROCEDURE **NOTE: Does Not Fit 2002 Ram 1500 Trucks (Use Model 119)**

**CAUTION:** If larger after-market wheels and/or tires have been installed verify adequate Actuating Rod clearance.

**CAUTION:** Before mounting **SNOW CHAINS** verify adequate Actuating Rod clearance. Allow for suspension travel.

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

1. Mark and center punch a location for **SHORT BED TRUCKS at 44-7/16"** or for **LONG BED TRUCKS at 48-7/16"** from the rear lip of the truck bed (tailgate end) centered between the wheel wells. Use a 3" hole saw to cut a hole in the bed floor centered at this location. Clean all saw tailings from the bed area before proceeding. Remove the spare tire.
2. If so equipped, cut the **Heat Shield** off where it bends upward to pass over the muffler hanger/shock absorber mount, remove the three 3/8" sheet metal screws, and discard the rear section of the heat shield.
3. Some **Short Bed** trucks have sheet metal brackets spot welded outside the frame rails at the bed cross member forward of the axle. It may be necessary to remove these brackets to mount the Frame Plates. It is often possible to distort these brackets sufficiently to install the Frame Plates. (These brackets are used for bed alignment during truck manufacture.)
4. On **Four Wheel Drive** trucks it is necessary to remove the driver side plastic fender liner. After hitch installation is complete re-install the fender liner using pop rivets or nuts and bolts (not provided) and cut a 6" diameter or larger hole in the fender liner to allow access to the Actuating Rod.
5. On the driver side, on the lip formed where the bed floor and fender well are welded together, mark a location immediately at the rear edge of the bed cross member forward of the axle, and mark another location 8" rearward. Use a muffler cutter or tin snips to make vertical cuts at these locations the full depth of the lip where the bed side and the fender well join. Fold the lip section between the two cuts inward and upward to a position level with the bottom of the bed floor. (Use vise-grips and/or a prying bar levered against the top of the frame.)
6. Identify the Front Cross Member (Solid Bar). Slide the Cross Member across the frame rails of the truck from the driver side with the two center holes up. Position the Front Cross Member centered across the frame rails against the bed cross member forward of the hole for the ball.
7. Slide the Rear Angle Cross Member (1), across the frame rails similarly, with the plain side (2" leg) up and with the slotted side facing forward. Position the Rear Cross Member about 6" rearward of the 3" hole in the bed floor.
8. With the ball down, and with the hole for the pull rod facing the drivers side of the truck, raise the Ball Assembly (3) into position between the Cross Members with the protruding tube fitting in the 3" hole. On Diesel trucks pop the rubber donuts off the tail pipe and pull the tail pipe down and over for clearance to install Ball Assembly. Place the Eye Bolt (provided) in the threaded hole in the top of the hitch ball and secure it to an overhead lifting device, or to a saw horse in the bed of the truck, and use cable or rope to hold the Ball Assembly firmly against the underside of the bed floor. Fasten the Ball Assembly to the Cross Members using 1/2"bolts and nuts with flat washers over the slotted holes.

**NOTE:** On trucks equipped with **OVERLOAD SPRINGS** it is necessary to cut 3" off of the rearward end of the Frame Plates

## INSTALLATION PROCEDURE - CONTINUED

9. Square the assembled Cross Members and Ball Assembly across the frame. Identify the driver side (4, with labels) and passenger side (5) Frame Plates. Position the Frame Plate extensions between the Cross Members. Fasten to the Front Cross Member using a flat washer and a 1/2" nut. Fasten to the Rear Cross Member by passing a 1-1/4" bolt with a flat washer from the Frame Plate and securing with a 1/2" nut. Snug these fittings at this time.

10. Fasten the Frame Plates to the frame by aligning two of the slots in the Frame Plate with existing holes in the truck frame. Pass 1-1/2" bolts with flat washers from inside the frame and secure with 1/2" flat washers and nuts.

11. **Torque 1/2" fasteners to 65 foot pounds** in the following sequence: First the Cross Members to Ball Assembly, then to the Frame Plates to the Cross Members, and finally the Frame Plates to the truck frame.

12. Drill four 1/2" holes for the Safety Chain Brackets from under the truck bed. Drill through the four holes in the Ball Assembly through the truck bed floor. Place a U-bolt in each pair of holes from the top side of the bed. From under the bed place a spring and 1/2" lock nut on each U-bolt leg. Tighten each nut until thread extends through the nut.

13. Pass the Actuating Rod (6) through the slotted hole between the Frame Plate extensions and into the hole in the slide. Align the Actuating Rod and secure using the 1/4" bolt. Seat the bolt in the hole in the rod, and tighten to 7 foot pounds. Ascertain that the rod is free in the frameplate and doesn't drag.

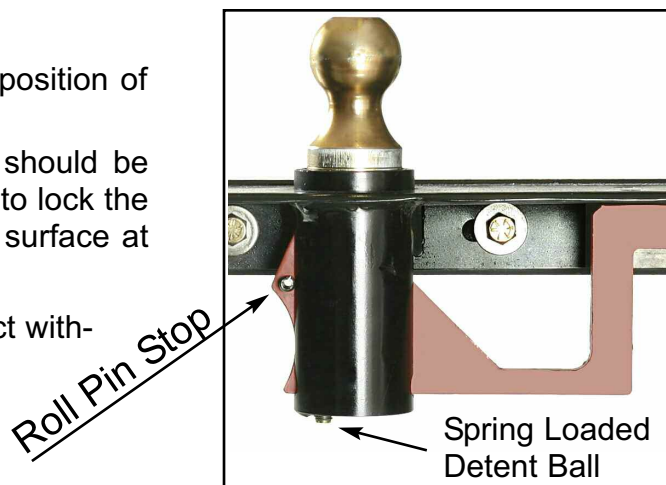
## IMPORTANT!

The final step is to raise the ball and check the position of the slide from under the truck.

When the ball is fully raised, the Roll Pin Stop should be against the ball tube. This allows the Detent Ball to lock the slide in place and positions the ball over the flat surface at top of the slide.

In this position it is impossible for the ball to retract without manually pushing in the handle.

Read the **SAFE TOWING INSTRUCTIONS** on the **PopUp Warranty Sheet**



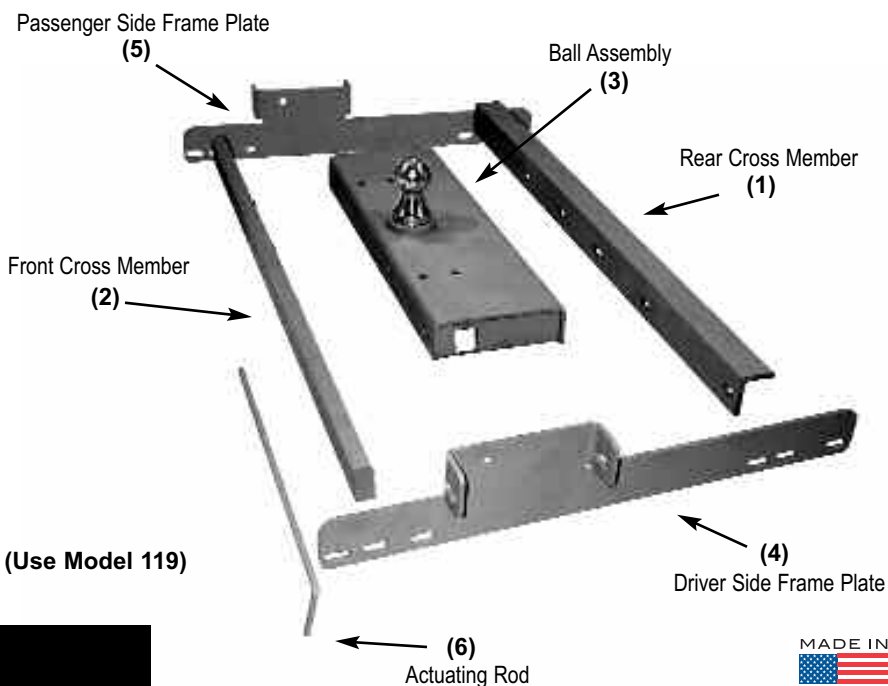
### HARDWARE PROVIDED

- 16 - 1/2" X 1-1/4" Grd. 8 Bolts
- 14 - 1/2" Lock Nuts
- 14 - 1/2" Flat Washers
- 2 - U-Bolts & 4 Springs
- 1 - 3/8" Eyebolt
- 1 - Plastic Cap



[www.popuphitch.com](http://www.popuphitch.com)

**Does Not Fit 2002 Ram 1500 Trucks (Use Model 119)**



**Model Number 116**  
**Gross Trailer Weight: 30M lbs.**  
**Gross Trailer Tongue Weight: 7.5M lbs.**



# IMPORTANT!

Before installing the actuating rod place the indicator / lock collar on the rod toward the bend for the handle.

As a last step firmly pull the handle to raise the ball, verify that the Roll Pin Stop is against the ball tube. Then slide the indicator / lock collar against the outside of the frame plate and secure it in this position using a 1/8" allen wrench.

With the indicator / lock collar in place raise the actuator rod slightly and push in to lower the ball. To raise the ball raise the handle and pull the actuator rod out till the indicator / lock collar clears the frame plate. This gives a positive indication that the ball is fully raised and is ready for towing.

**Pop up**<sup>®</sup> Towing Products  
Mfg by Young's Products, LLC

Indicator /  
Lock Collar



Frame  
Plate

