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Installation Instructions

Flip-Over Model 219 Dodge Ram (Not for Mega Cab)

Fits 2002-2008 1/2 Ton (2WD & 4WD)
2003-2012 3/4 & 1 Ton (2WD & 4WD)



www.popuphitch.com

FOR THE SAFEST INSTALLATION

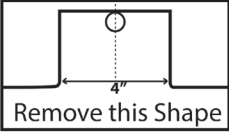
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WARNING Most pick up trucks have **FUEL LINES** and/or **BRAKE LINES** and/or **ELECTRICAL WIRING** positioned along the truck framerails where your under-bed hitch will install. **BEFORE INSTALLATION** identify and examine the location of fuel lines, brake lines and electrical wires. Be sure you will not damage fuel lines, brake lines or electrical wiring when positioning the 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 under-bed gooseneck hitch.
- ALWAYS correctly chock tires prior to raising truck with jacking device. For protection ALWAYS use jack stands when working under or around a truck which has been raised by a jacking device.
- Be certain the exhaust system is cool prior to installation to avoid possible burns from hot tail pipe and muffler.
- Torque ALL fasteners used in the under-bed gooseneck hitch installation as specified in these Installation Instructions.
- **READ ALL SAFETY AND WARNINGS ON THE LAST PAGE OF THE PROVIDED INSTRUCTIONS.**

INSTALLATION PROCEDURE

WARNING: Verify adequate trailer swing clearance between trailer nose and cab of truck, and trailer and rear of truck. READ spray in bed liner warning on last page.

1. Mark and center punch a location for **SHORT BED TRUCKS** at 45" - **LONG BED TRUCKS** at 47" from the rear lip of the truck bed floor centered between the wheel wells. Use a 3-1/2" hole saw to cut a hole in the bed floor centered at this location. Smooth hole edges with file after sawing. Clean all saw tailings from the bed area before proceeding.
2. If so equipped, cut and remove the tail pipe heat shield between the two truck bed cross members ahead of and rearward of the axle where the hitch will install. Some models have a plastic fender liner that you may simply remove to install the hitch. Re-install the liner and use your 3 1/2" hole saw to make an access hole to the actuating rod.
3. Locate the bed sill that is forward of the hole for the ball. Measure back 4 1/2" on the bed lip and cut out a section as shown. This will allow the angles to be passed across the top of the frame and give clearance for the actuating rod.
4. Pass the Front Bar Cross Member across the frame rails of the truck from the driver side with the 1/4" spacers on the bottom for 3/4 and 1 ton trucks or on the top for 1/2 ton trucks. Center the Front Bar Cross Member across the frame about three inches in front of the 3-1/2" hole.
5. Pass the Rear Angle Cross Member across the frame rails similarly, with the plain side (2" leg) up and with the hole leg facing forward. Place the Rear Angle Cross Member across the frame about 5" rearward of the 3-1/2" hole in the bed floor.
6. With the actuating rod coupler facing the driver side of the truck, raise the Center Assembly into position between the Cross Members with the protruding tube in the channel web passing into the 3-1/2" hole. Use an overhead lifting device or a saw horse in the bed of the truck, and chain or strap to hold the Center Assembly firmly against the underside of the bed floor. Insure that the top of the Center Assembly channel is flush with the bottom of the bed floor.
7. Fasten the Center Assembly to the Front Cross Member with 1-1/4" bolts. Slide the Rear Cross Member forward and fasten it to the Center Assembly with 1-1/4" bolts with washers on the slotted holes and 1/2" nuts. **Do not fully tighten these fittings at this time.** Square the assembled Cross Members and Center Assembly across the frame from to back and side to side.
8. Identify the driver side Frame Plate and passenger side Frame Plate. Position the Frame Plate extension tabs between the Cross Members. Remove the brake cable bracket if necessary. Loosely hang the frame plates on the angle and solid bar cross members using flat washers and 1 1/4" bolts and 1/2" nuts.
9. Square the hitch across the frame.

INSTALLATION PROCEDURE- CONTINUED

10. First pass the 7" bolt thru the existing vertical hole in the frame from underneath with a flat washer against the bottom of the frame and a 1/2" nut on top. If done first, the tab will be flat on the top of the frame and the 7" bolt will easily pass thru it. Secondly, position the frame plate u-bolt around the the frame and into the frame plate. Secure with 1/2" Lock Nuts.

Note: There are four U-Bolts in the hardware kit. The two wide bolts are used for 3/4 and 1-Ton trucks and the narrower ones are for use in 1/2 ton trucks. **Caution:** Avoid brake and electrical lines when positioning U-Bolt against truck frame.

11. Drill four 1/2" holes for the Safety Chain U-Bolts from under the truck bed. Drill through the two pairs of holes in the Center Assembly that are farthest from the hitch ball. 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" nut on each U-bolt leg. **Tighten each nut until thread extends through the nut.**

caution: Use this sequence for tightening Frame Plate fasteners: (Install safety chain u-bolts in step 11 before tightening fasteners. This will keep the hitch from pulling out of square). 1. Snug the center section to the cross rails. 2. Snug the Cross rails to the side plates. 3. Snug the frame plate u-bolt and the 7" bolt. Using the same sequence, **torque to the specifications** shown below. Use a Torque Wrench. **Do not overtighten.**

12. If the brake cable bracket was removed from frame in Step 8, mount it using the sq. hole in the bottom of the Driver Side Frame Plate using the 5/16" lock nut.

13. From the driver side, pass the Actuating Rod thru the hole between the Frame Plate extensions and into the linkage coupler. Align the Actuating Rod so the set screw seats in the hole provided in the rod, and **tighten to torque specifications.** You may need to remove some of the lip above where the Actuating Rod installs to allow free travel.

14. Retract the Retaining Pin by rotating the Actuating Rod 90 degrees counter clockwise. Place the Flip-Over ball in the Socket. Rotate the Actuating Rod 90 degrees clockwise to engage the Retaining Pin.

15. Keep the base of the Flip-Over ball lightly lubricated with **lithium grease.**

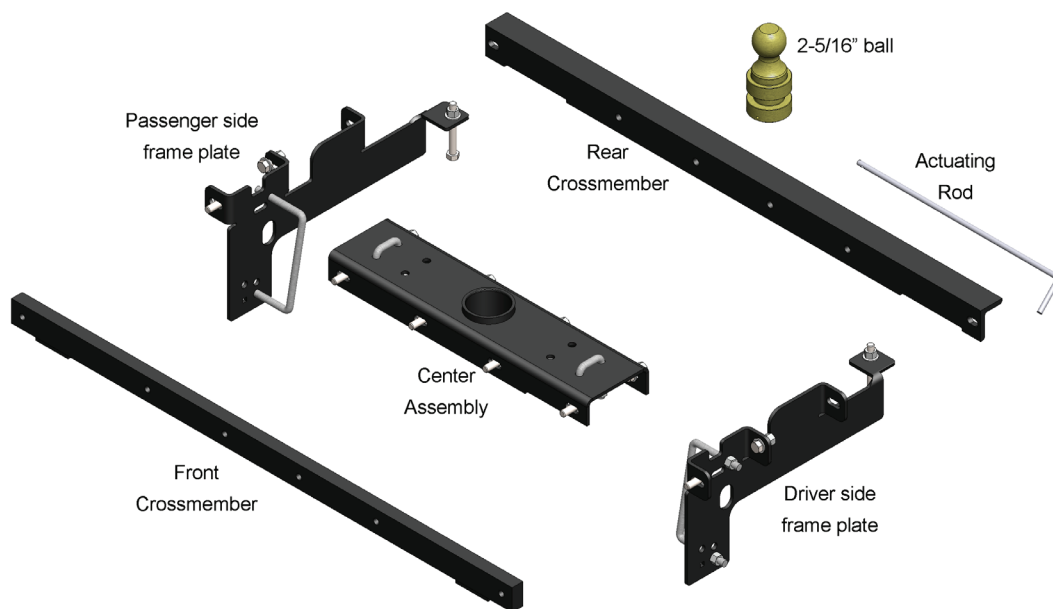
16. Please read the **SAFE TOWING INSTRUCTIONS** on the WARRANTY sheet. Fill out and return warranty card to us, or go online to www.popuphitch.com and fill out the online version.

Torque Specifications:

1/2" grade 8 bolts - 119 ft. lbs
Frame plate U-bolts - 50 ft. lbs.
Actuating rod set screw - 15 ft. lbs.

Hardware Provided

12 - 1/2" X 1-1/4" Grd. 8 Hex Bolts
2 - 1/2" X 7" Grd. 8 Hex Bolts
12 - 1/2" Hex Lock Nuts
16 - 1/2" Flat Washers
2 - 5-3/4" wide U-Bolts
2 - 6-11/16" wide U-Bolts
1 - 5/16" Set Screw
2 - U-Bolt Assemblies (for safety chains)
1 - 5/16" Lock Nut (use when relocating brake cable hanger)



Please call or email with questions.
Call us at 800-837-8578 or
email us at info@popuphitch.com

Model Number 219
Gross Trailer Weight: 30M lbs.
Gross Trailer Tongue Weight: 7.5M lbs.

Flip-Over™



READ ALL SAFETY AND WARNINGS BEFORE STARTING THE INSTALL

WARNING AND SAFETY INFORMATION, READ ENTIRELY BEFORE INSTALLATION.

Read all installation and operating instructions along with all labels before using this product.

PopUp Towing's under-bed hitches are standard with a 2-5/16" ball. Make sure the coupler on the trailer is designed for 2-5/16" ball. Using a larger size coupler could cause loss of attachment and cause serious injury.

Do not modify this product in any manner. Doing so could alter the integrity and proper use of the product causing serious damage or injury.

Do not exceed tow or tongue rating of coupler, tow or tongue rating of the hitch, or tow or weight ratings of the truck or trailer. See vehicle and trailer manufacturer information for proper ratings. Exceeding these ratings may cause damage to truck and/or trailer, or possible bodily injury.

Adding components such as a PopUp Towing under-bed gooseneck hitch to the chassis of any vehicle can be hazardous. There is potential for unexpected combustion of fuel, electric shock, burns, shifting or falling of unstable vehicle, damage to vehicle, injury from tool usage and many other hazards. This installation must be completed by someone who is aware of the hazards involved.

Always be sure the ball is properly latched into place while in the up or down position. Before hauling heavy loads make sure that your hitch will clear the truck's differential before hauling a load.

Cab clearance can be an issue with short bed trucks and limits towing on certain trailers. Failure to insure that there is adequate clearance before towing, may result in property damage, or serious injury.

IMPORTANT: The hitch is designed to install only at the location described in the included instructions. Failure to place the ball hole precisely may result in property damage or difficulty during installation.

Failure to follow the bolt tightening sequence and torque settings listed above may result in the hitch being misaligned which could affect the performance of the hitch, or result in property or bodily damage.

PopUp Towing Products assumes no responsibility for injury to self, or damage that may occur during installation. As always its best to have this product installed by an experienced installer.

CAUTION: If your truck is equipped with a spray in bed liner that covers the rear lip of the truck bed, make sure and add the thickness of the bed liner to the hole location measurement before drilling the hole.