



## INSTALLATION INSTRUCTIONS

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### 4988 HANGER & SHACKLE KIT DODGE RAM

**Thank you for being selective enough to choose our high quality BELLTECH PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during installation.**

- Note: Confirm that all of the hardware listed in the parts list is in the kit. **Do not** begin installation if any part is missing. Read the instructions thoroughly before beginning this installation.
- Warning:** **DO NOT** work under a vehicle supported by only a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.
- Warning:** **DO NOT** drive vehicle until all work has been completed and checked. Torque all hardware to values specified.
- Reminder: Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!
- Note: It is very helpful to have an assistant available during installation.

#### RECOMMENDED TOOLS:

- Properly rated floor jack, support stands, and wheel chocks
- Combination wrench set
- Torque wrench: *0-75 lb ft. range*
- Ratcheting socket wrench and socket sets
- Air Chisel / Die grinder W/ cut off wheel
- Heavy Duty Drill
- Safety Glasses

#### KIT INSTALLATION

1. Open the hardware kit and remove all of the contents. Refer to the part list (Page 3) to verify that all parts are present.
2. Park the vehicle on a smooth level asphalt or concrete surface. Place a block in front of and behind the front wheels. Jack up the rear of the vehicle and place jack stands securely under the frame in the manufacturer's specified locations. Remove the rear wheels.
3. While supporting the drive shafts, unbolt the center carrier bearing from its mount plate. Secure the drive shafts to the chassis side rail out of the immediate work area of the center carrier bearing mounting plate, and remove the mount plate.
4. The forward flange of the cross member must be modified to clear the forward drive shaft when the center carrier bearing is mounted to the inside "ceiling" of the cross member. (PHOTO 1 & 2) Mark off the forward flange of the center carrier bearing cross member with masking tape, or a suitable marker, so that the area 1" in from either side of the plate mount holes and across the base of the inner surface of the flange will be removed. (PHOTO 3, 4 & 5) (The cross member has been removed only for clarity.)

5. After marking off the area indicated, drill through the cross member at the corners of the marked off area using a 3/8" drill bit. (PHOTO 6) Remove the marked off area using a die grinder with a cutoff wheel or similar tool. Remove the punched "dimple" in the area where the center carrier bearing will be located using a die grinder, or suitable tool. (PHOTO 7) **CAUTION: Always wear eye protection when using power tools.**
6. Drill two 1/2" holes in the cross member 6-5/8" apart, measured from hole centers, centered between the existing center carrier bearing mount plate holes. (PHOTO 8) **CAUTION: Always wear eye protection when using power tools.** Remove all rough edges using a file or suitable tool. Refer to before and after comparison of modified and stock cross members for further clarification. (PHOTO 9)
7. Bolt the center carrier bearing into its new location, using the kit supplied hardware and torque the hardware to 88-93 Ft-lbs.
8. On a stock vehicle it will be necessary to modify or remove the exhaust system stub that engages the rubber mount on the stock transmission mount steel plate. A vehicle equipped with a Belltech transmission mount plate will not have the rubber mount and will not need the exhaust system modified.
9. Remove the two sets of hardware that secure the transmission mount steel plate to the transmission rubber mount. With a floor jack rated for this load, raise the rear of the transmission to the point that the kit supplied transmission spacer can be installed between the transmission mount plate and the transmission rubber mount. (PHOTO 10) **CAUTION: Excessive lifting of the rear of the transmission to install the transmission spacer may result in transmission component damage. Lift the transmission only as necessary to install the spacer.**
10. Install the kit supplied hardware through the transmission mount plate, transmission spacer and transmission rubber mount. Lower the transmission back down onto its mount and torque the kit supplied hardware to 20-25 Ft-lbs. **NOTE: In some cases it may ease the transmission hardware installation if the bottom transmission rubber mount nuts are loosened to allow movement of the transmission rubber mount.** Re-torque the transmission mount nuts to 45-50 Ft-lbs. Also, check the cooling fan to cooling fan shroud clearance after the transmission spacer installation to make sure there is at least 1/2" clearance between these parts. Trim the cooling fan shroud as necessary to gain this clearance.
11. Raise the rear of the vehicle to unload the jack stands, remove the jack stands and lower the vehicle to the ground. The installation is complete.

## PART LIST FOR 4988 DODGE RAM

### HANGER & SHACKLE KIT

PART No.	DESCRIPTION	QTY.
6584-012	1" Transmission Spacer	1
110312	7/16-20 x 2" NF Grade 8 CS ZP	2
110303	7/16-20 Grade C LN ZP	4
110645	7/16 SAE FW ZP	8
110650	7/16-20 x 1-1/4" Grade 8 CS ZP	2



