



## NP16508 BELL SHACKLE FRAME KIT D21/ WD21 HARDBODY / PATHFINDER

NOTE: It is recommended that this part be installed by a certified welder. It is also recommended to fully ensure that the hanger itself is square and true to the frame of the truck BEFORE welding to the vehicle. Failure to do so is not our responsibility. Improper alignment of the shackle mount will affect the entire front suspension geometry.

This kit will require the use of either a plasma torch (recommended) or standard cutting torch. This will only be used to cut the necessary hole in the frame to continue the installation. This step may also require grinding of the hole to allow for the pivot housing sleeve to be properly aligned.

### Complete Kit Includes

2 - Formed Frame Guides  
2 - Bent Shackle Plates  
2 - Straight Shackle Plates

2 - Pivot Housing Sleeve  
2 - Shackle Bushing Sleeve  
4 - Polyurethane Bushings

2 - 1/2" x 4.5" Grade 8 Bolts  
2 - 1/2" x 6.5" Grade 8 Bolts  
8 - 1/2" Flat Washers

1. This bell shackle kit is designed to install directly underneath the body mount as shown in the picture below. Using the supplied frame guide (8 gauge bent plate) transfer the two large holes onto either side of the frame. This is where the hole will be cut. The cut can be made using a oxygen/aceylene torch, plasma torch or hole saw. Some minor grinding may need to be done to the outer edge of the hole to make it concentric and to allow for the heavy wall tube to be installed.



2. Picture detailing the cutting of the frame hole.





Picture of the newly torched hole.

3. Once the hole is cut and the tube has been test fit in the opening, the tube will need to be placed perpendicular to the direction of the frame rail. Caution should be taken here to ensure the proper orientation of the pivot tube. Failure to do so will cause suspension geometry and flex issues. Once properly located, the tube will need to be tack welded in place to hold the position and then fully welded.





Another view of the installed pivot sleeve.

4. After the tube has been welded, the shackles can be installed. The supplied bushing install into the welded tube with the center pivot sleeve riding down the center. The straight side plate mounts to the inside of the frame rail and the bent is on the outside. The supplied bolts install according to length.





ADDITIONAL PICTURES INCLUDED FOR REFERENCE. PLEASE EMAIL [DAVIDK@CALMINI.COM](mailto:DAVIDK@CALMINI.COM) IF YOU HAVE ANY QUESTIONS.



QUESTIONS, PLEASE CALL THE TECH DEPARTMENT  
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