



SYNERGY MFG. 870 INDUSTRIAL WAY, SAN LUIS OBISPO, CA (805) 242-0397

## 8069-02 / 8095-02 Jeep JK Sector Shaft Brace Needle Bearing Replacement

### **GENERAL NOTES:**

- These instructions are also available on our website; [www.synergymfg.com](http://www.synergymfg.com). Check the website before you begin for any updated instructions and additional photos for your reference.
- These instructions are for needle bearing replacement on both 8069-02 and 8095-02 Jeep JK Sector Shaft Braces

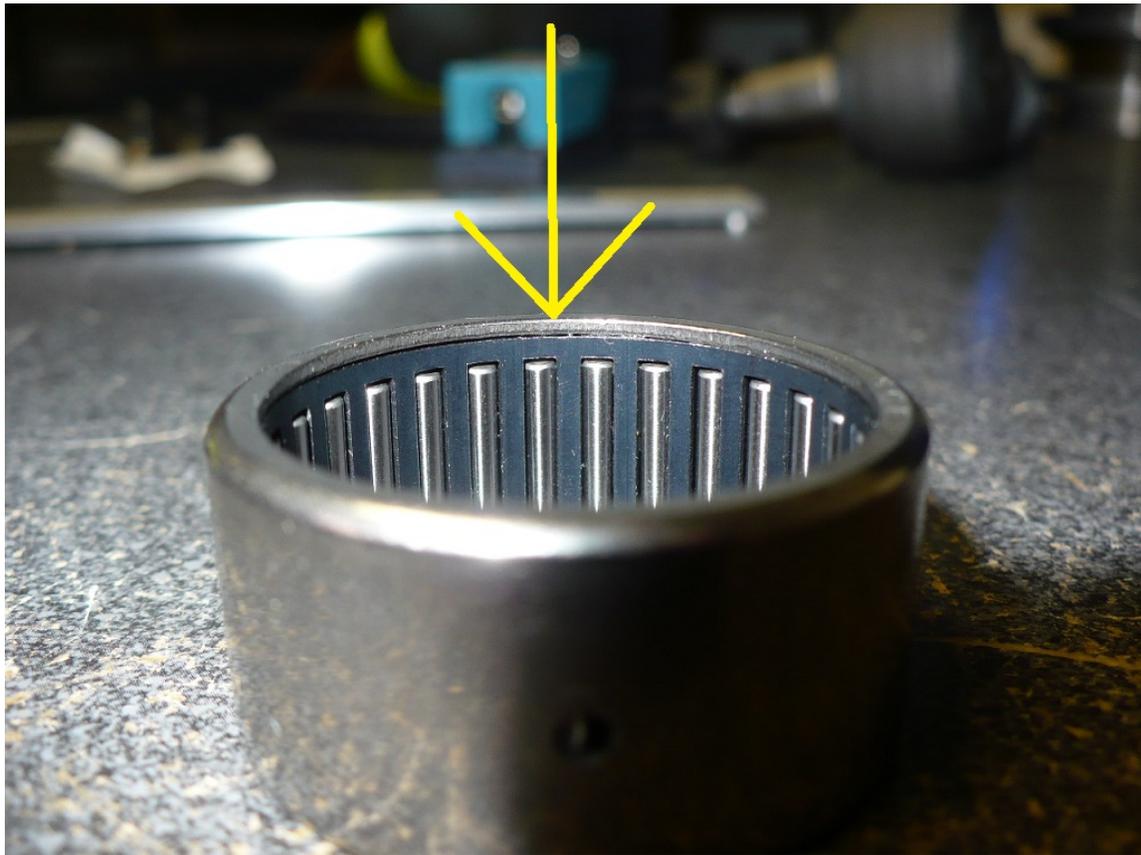
### **Parts / Tools Needed to complete installation:**

- Basic simple hand tools.
- Hydraulic press or Large vise
- Various press tooling or sockets

*APPROXIMATE INSTALL TIME:* 1-2 HOURS

### **INSTALLATION:**

- 1) Part will need to be removed from the vehicle for needle bearing replacement.
- 2) Reference 8069-02 or 8095-02 Sector Shaft Brace instructions for part removal from vehicle.
- 3) Once assembly is removed from vehicle, remove the zerk fitting from the sector shaft brace.
- 4) Next, acquire the appropriate tooling / sockets to press out the needle bearing. The needle bearing housing is made from 1.875 x .188 DOM tubing. So a small piece of 2.0" x .120 wall tubing works well as a female side to press against.
- 5) At this time, it is a good idea to thoroughly clean all grease and dirt from the sector shaft brace.
- 6) With needle bearing remove, look closely at the new bearing as they are not symmetrical.
  - One side of the bearing has a larger lip. This is the side you want to press against when installing into the brace. See images 5.1 and 5.2 below.



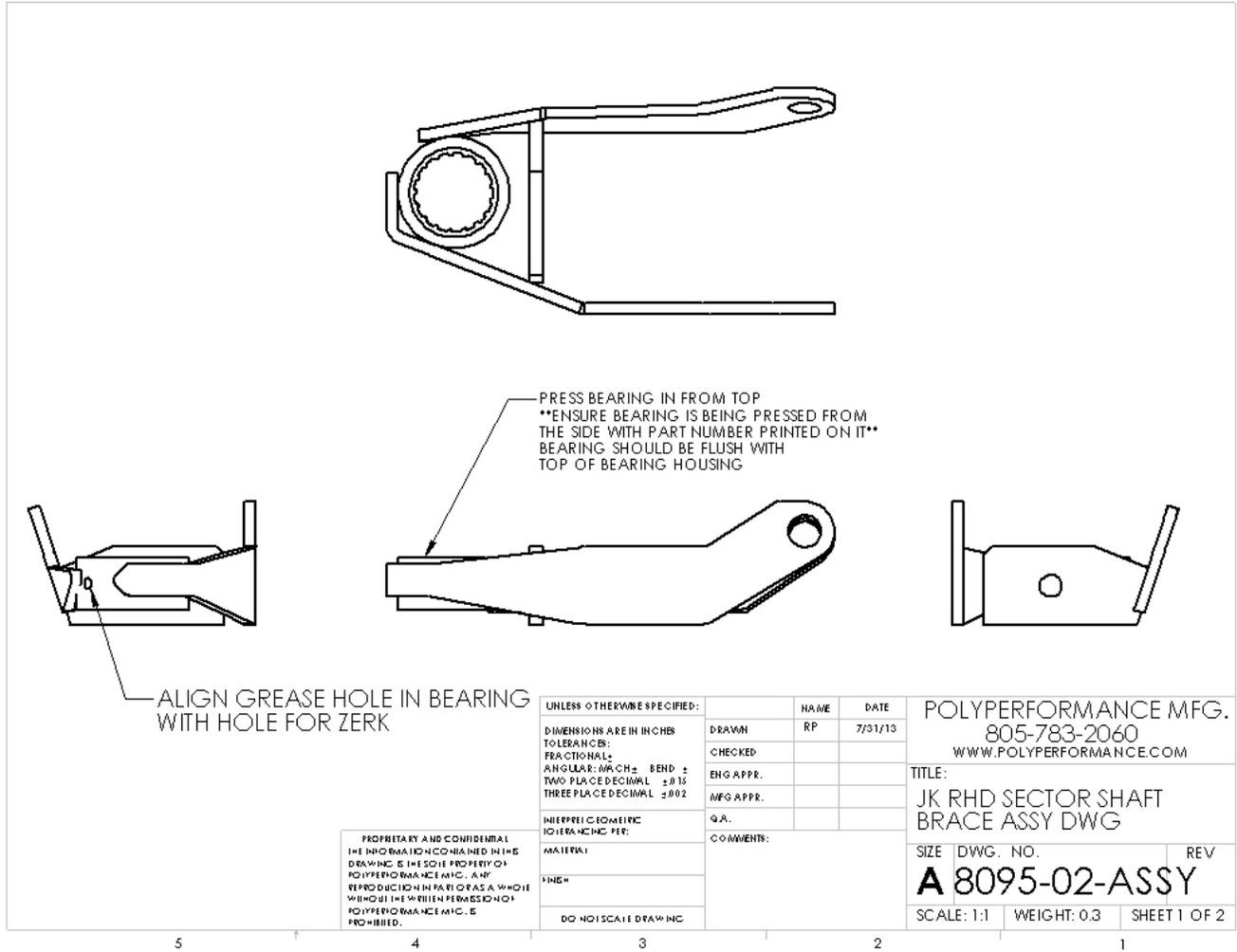
IMG 5.1 - Thicker lip of needle bearing. Press on this side.



IMG 5.2 – Thinner lip of needle bearing. DO NOT press from this side.

- 7) Once the correct side of bearing is determined, carefully orient the grease hole in the needle bearing so that it will align with the zerk hole in the bearing housing.

- 8) Press the new bearing into the sector shaft brace. Be sure to press from the thick side of the bearing and press the bearing in from the top. See image 8.1 below.



- 9) The newly installed needle bearing should be flush with the top of the bearing housing.  
 10) At this time, make sure bearing can be spun freely by hand.  
 11) Reinstall zerk fitting and reinstall onto vehicle.  
 12) Reference 8069-02 or 8095-02 instructions for reinstallation and grease instructions.

Installation is Complete