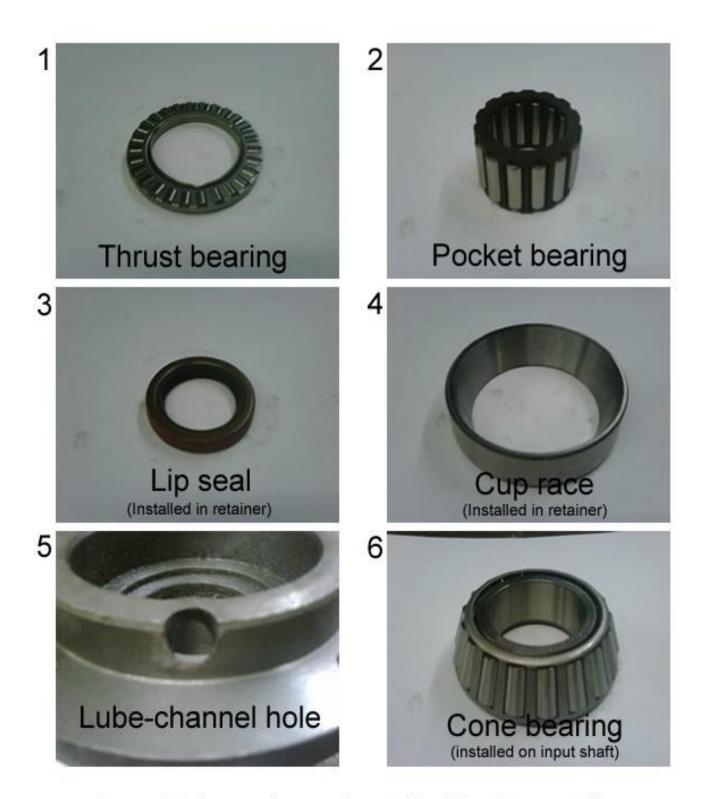
## **NV4500 Input Shaft Kit Installation Instructions**

## **Disassembly**

- 1. Remove the 4 bolts that hold the input shaft retainer in place, remove old retainer.
- 2. Remove old pocket bearing and thrust bearing from transmission.
- 3. Check for any damaged gears or synchronizers (Do not install new input shaft in a damaged transmission!)

## **Assembly**

- 1. Lubricate the drive gear thrust bearing in Syntorq transmission oil and install it on the main shaft, the bearing rollers should face towards the front.
- 2. Lubricate the pocket bearing in Syntorq transmission oil and slip it into the input shaft.
- 3. Install the input shaft through the synchronizer clutch splines and onto the main shaft until seated.
- 4. Lubricate the input shaft bearing cup and input shaft seal lip with petroleum jelly.
- 5. Apply a 1/8" bead of RTV sealant to the flange surface of the bearing retainer.
- 6. Locate the round lube-channel hole in the bearing retainer. This lube-channel matches a slot in the top of the transmission case.
- 7. Install the bearing retainer onto the transmission. Apply silicone sealant to the bolt threads; install the bolts into the retainer. Torque the bearing retainer bolts to 22 lb. ft.
- 8. After installing the retainer, make sure the lube-channel hole is not blocked by RTV!
- 9. Check that the input shaft rotates freely and has no in and out play.



3 and 4 have been installed in the retainer and 6 has been pressed onto the input shaft for your convenience.