

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

HEAVY DUTY BALL JOINTS

PPM-4120 PPM-4120-01 PPM-8009-12 PPM-8009-12-01

Version 1.3

GENERAL NOTES:

- These instructions are also available on our website; www.synergymfg.com. Check the website before you begin for any updated instructions and additional photos for your reference.
- Refer to the factory service manual for general installation instructions for ball joints, these are no different, any important differences are noted below.
- A special ball joint C-frame press and adapters are required for installation. OTC and Miller special tools have quality tools available.
- Lubricate the ball joints at every oil change using Synergy High Performance Chassis & Bearing Grease (PPM-4119).
- These HD ball joints carry a 12 month unlimited warranty. Available to the original purchaser from the date of purchase and are non transferable.
- 1. Remove the boots prior to installation to prevent damage. Do not forget to reinstall them prior to installing the knuckles
- 2. Install the ball joints using the factory service manual as a guide. Torque the lower ball joint nut to 80 ft-lbs, then tighten the upper ball joint nut to 75 ft-lbs. Further tighten to align the cotter key holes, do not loosen to align the cotter key.
- 3. Orient the lower ball joint so the grease fitting is pointing forward.
- 4. Wait until the ball joints are installed to install the grease zerk fittings. You have two options for the lower ball joint grease zerk: Use the flush style grease zerk ONLY if you are using RCV axle shafts; you will need a long needle adapter to grease the lower ball joints. If you are using standard U-joint axle shafts, you can use the regular grease zerk provided, and a standard grease gun fitting will work.
- 5. Recheck caster on vehicle after new Balljoints have been installed as worn balljoints could result in an increase in actual caster due to excessive play.