

V8 Roadsters

PRECISION BALL JOINT MAINTENANCE INSTRUCTIONS



Warning!

Do not use 3/4" socket or wrench on adjuster cap to install or remove ball joint. Use only special ball joint socket that contacts outer flats. The 3/4" hex is only for removing and replacing cap only.

Installation - Screw In

- 1) Assembled ball joints are shipped internally lubricated, adjusted and ready to install.
- 2) Apply Anti-Seize to the threads of the Housing.
- 3) Install the ball joint in the upper a-frame and torque to 100 ft. lb. clockwise using a ball joint socket.

Connecting to the Spindle

Make sure that the stud is in contact with the spindle from top to bottom.

Removing from the A-frame - Screw In

Unscrew the housing from the a-frame using a ball joint socket to turn the ball joint counter clockwise.

Maintenance

Grease with low friction grease every 300 laps or 25K miles whichever comes first. We use Citgo MP Lithoplex 3 or Red Line CV2. Unlike conventional ball joints, this ball joint will only accept grease until it is full (typically, one pump or less is required). Once the grease passages are full they will not vent, the pressure from the grease gun can make it difficult to remove the gun from the zerk fitting. To relieve the pressure work the ball stud around to vent grease onto the ball, if the ball joint is on the vehicle, bounce the suspension for the same result. Disassemble annually or every 2000 laps to adjust the lash.

Adjusting the Lash

Lash can be set with the arm attached to the car if the coilover is unbolted and the ball joint taper is free from the spindle. If you choose to remove the ball joint from the arm, gently clamp the housing by the flat sides in a vise to disassemble.

Disassembly

- 1) Using a pair of snap ring pliers remove the retainer ring then the hex retainer plate.
- 2) Turn adjuster cap counter-clockwise to remove. Use a 3/4" socket if needed.
- 3) Clean moving parts to inspect for excessive wear. Replace any parts that are worn or damaged. The ball stud is concentric and should be checked for straightness. Install the ball stud upside down in the housing and spin the stud against the side of the housing with your fingers. If the ball stud is bent, you will see it wobble.

Assembly

- 1) Install the housing into the a-frame or gently clamp the housing by the flats into a vise.
- 2) Install the ball stud into the housing without grease.
- 3) Apply a small amount of light lubricant to the threads of the cap, install and tighten until it contacts the top of the ball.
- 4) Set the lash on the ball by loosening the cap 1/8 turn.
- 5) Place the hex retainer plate on. Adjust the cap slightly as needed so the retainer locks the cap in place. Install the retainer using snap ring pliers.
- 6) Using a grease gun, grease and rotate the ball stud by hand until the grease is visible on the bottom of the ball.

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