



# DID YOU KNOW?

## ADVICE FOR THE PROFESSIONAL

### Overview

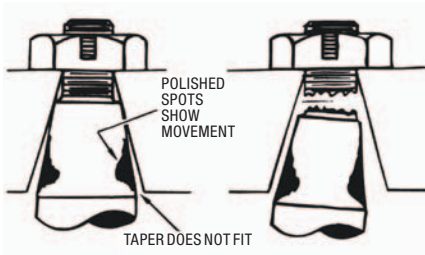
It is vital to torque ball joint stud nuts to proper specifications. Improper torquing will cause looseness that may eventually cause joint stud breakage and damage to the steering knuckle. Also, looseness due to improper torquing may produce the same symptoms as a defective ball joint and may lead to unnecessary replacement.

**This Bulletin Affects:**

All Makes, All Models Utilizing A Ball Joint With Stud Nut

### Repair Procedure

**WARNING:** Before attempting to remove the old ball joint stud from the steering knuckle, make sure the stud of the worn ball joint was firmly seated in the tapered hole of the steering knuckle. If the worn ball joint was loose in the steering knuckle, or if any out-of-roundness, deformation, or damage is observed, the **STEERING KNUCKLE MUST BE REPLACED**. Failure to replace a damaged or worn steering knuckle may cause loss of steering ability since the ball joint stud **MAY BREAK** and cause the wheel to separate from the vehicle.



### Installation Procedure

**WHEN INSTALLING THE NEW MOOG® BALL JOINT, ALWAYS REFER TO THE MOOG INSTRUCTION SHEET ENCLOSED WITH THE PART, OR TO THE OE SERVICE MANUAL.**

1. Clean the steering knuckle tapered hole. Test fit the new part by inserting the new ball joint through the steering knuckle tapered hole by hand and check the fit of the stud taper to the knuckle. Stud should seat firmly without any rocking. Only the threads of the stud should extend through the steering knuckle. If these parts do not meet these requirements either the steering knuckle is worn, and needs replacement, or the incorrect parts are being used.
2. Secure dust boot and/or retaining ring (as applicable).
3. Confirm the tapered hole in the steering knuckle is clean (Step 1).
4. Insert the stud of the new ball joint through the tapered hole of the knuckle and install either self-locking nut, or the slotted (castle) nut as supplied.



Self-locking nut



Slotted nut

5. Thread the nut on by hand until it stops, making sure it threads evenly and smoothly.
6. Using a hand torque wrench, torque to the specification found in the MOOG instruction sheet supplied with the part.

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### Installation Procedure (con't)

**IMPORTANT: CONTINUE TO TIGHTEN THE SLOTTED NUT TO THE NEXT AVAILABLE SLOT. NEVER BACK OFF THE SLOTTED NUT TO ACHIEVE THE ALIGNMENT WITH THE HOLE IN THE STUD. BACKING OFF THE NUT WILL LEAD TO IMPROPER TORQUING AND CAN CAUSE LOOSENESS THAT WILL RESEMBLE A DEFECTIVE BALL JOINT AND/OR CAN CAUSE STUD BREAKAGE OVER TIME.**

7. Install and spread the supplied cotter pin.
8. Complete the installation per the instructions supplied with the part.



For parts lookup, visit [www.FMe-cat.com](http://www.FMe-cat.com) tech line: 1-800-325-8886

[moogproblemsolver.com](http://moogproblemsolver.com)

