TECHNICAL SERVICE BULLETIN

2007-2012 Dodge Caliber & 2007-2016 Jeep Compass and Patriot Front Lower Ball Joint

Correct Installation Procedure for 2007-2012 Dodge Caliber & 2007-2016 Jeep Compass and Patriot Front Lower Ball Joint

Brand	Supreme	Product	Ball Joint	Date	August 2020
Part Number(s)	MS25511				

Due to design of the OEM front lower control arm, FCA does not offer a replacement ball joint for the below listed applications:

Make	Year
Dodge Caliber	2007-2012
Jeep Compass	2007-2016
Jeep Patriot	2007-2016

On the OEM front lower control arm, the ball joint is pressed into a stamped steel arm. The ball joint is then retained by crimping the stamped steel onto the ball joint.

Removing the ball joint during replacement may lead to control arm deformation. At this point, the deformed control arm may not provide sufficient pull out resistance. **(See Figure 1)**



Figure 1: Deformed Control Arm

To correct this OEM design limitation, Mevotech Supreme MS25511 features a unique fastening method.

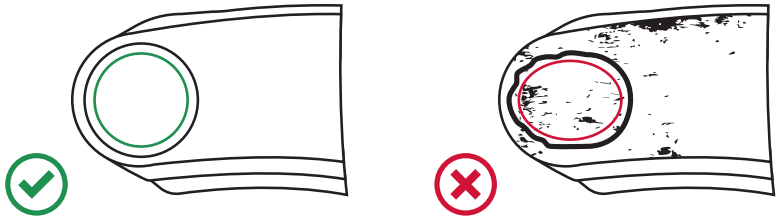
To successfully install this ball joint, the below must be followed.

Before Installation of a Ball Joint

- A (46MM) or (1-13/16") socket is required.
- Ensure all mating surfaces are clear of rust, debris and burrs. Inspect control arm mounting flange for cracks, deformation and or an out of round condition. Do not reuse control arm body if these are found. **(See Figure 2)**

Ensure to check press-in diameters and stud tolerances. Replace all damaged or out of specification mating components.

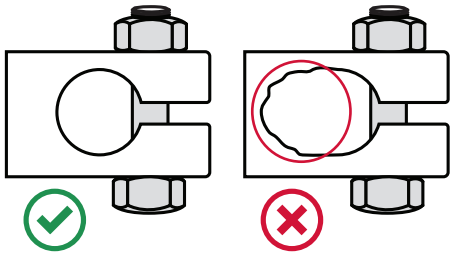
Figure 2



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If a broken, bent or loose ball joint stud is discovered, the steering knuckle must be replaced. Inspect knuckle ear for abnormal wear, enlargement, "out of roundness" and or other damage. Replace knuckle if these are found. **(See Figure 3)**

Figure 3

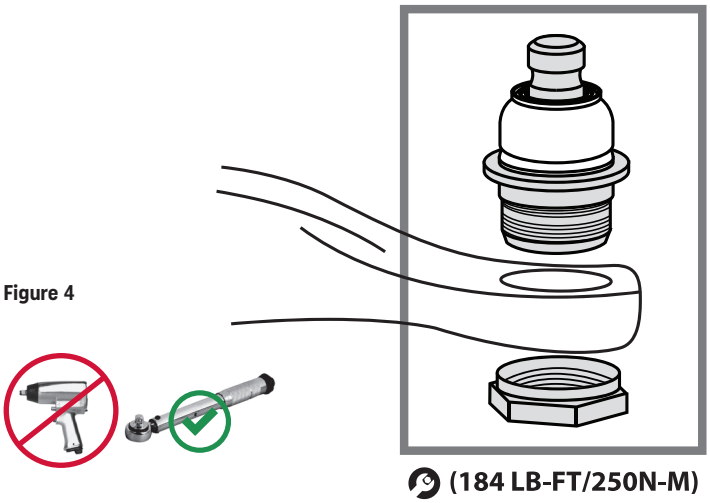


Installation

When pressing in ball joint, ensure pressure is applied to the mounting flange and not ball joint lamination. Contact with ball joint lamination during install will cause damage and may impair operation.

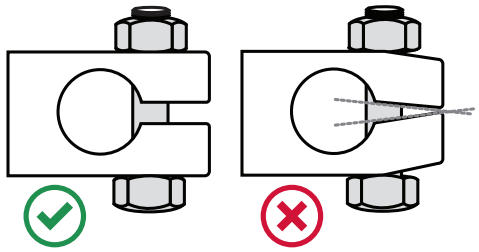
Ball joint retention nut must be tightened to **(184 LB-FT/250N-M)**. **(See Figure 4)**

Figure 4



Do not overtighten pinch bolt and nut. This may cause damage to the knuckle ear. Follow torque value and or sequence as found in the factory service manual. **(See Figure 5)**

Figure 5



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