TECHNICAL SERVICE BULLETIN

Upper and Lower Ball Joint Installation on RAM 4500/5500

Issue: Correct Installation of Front Upper and Lower Ball Joint on RAM 4500/5500

Publication:	TSB-21-040-01-01-E	**Product**	Ball Joints	**Date**	February 2021
Part Number(s)	TXMS25519/TXMS25520				

To successfully install the ball joints, it is imperative to adhere to the following:

- Discard old ball joint nuts and bolts. Do not reuse hardware. Ensure to renew hardware.
- Ensure the ball joint is even and square on the proper install axis. Correct seating and alignment are critical to part life longevity. This may require more than one reset of the tool position during install.
- Do not use a heat source to aid in removal. This can warp/distort or otherwise damage the knuckle bore or spindle ears.
- Do not use a hammer or apply blunt force to aid in removal or installation. This can warp/distort or otherwise damage the knuckle bore and or ball joint.
- Only use a calibrated torque wrench for final fastening.

Before Installation of New Ball Joint

After removing old ball joint and before pressing-in new ball joint:

- Ensure to check press-in diameters and tapered hole/stud tolerances. Replace all damaged or out of specification mating components.
- Remove all rust, burrs and corrosion from mating components.
- If a broken, bent or loose ball joint stud is discovered, the knuckle must be replaced. If there is deformation, an out-of-round condition or damage to the tapered mating surfaces of the steering knuckle, it must be replaced. **See Figure 1**.

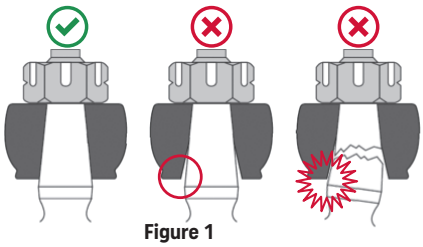


Figure 1

INSTALLATION

- Mevotech TTX Front Upper Ball Joint TXMS25519 features both a sliding and swing movement between the stud and housing to compensate for variation in the axle assembly. This is normal operation. **See Figure 2.**
- Mevotech TTX Front Upper Ball Joint TXMS25519 additionally features an Install Socket tool included in-box to aid the fitting process.
- When pressing-in ball joint, ensure pressure is applied to the mounting flange and the not the ball joint back plate or lamination. Contact with either during installation may cause damage and limit part performance and service life.

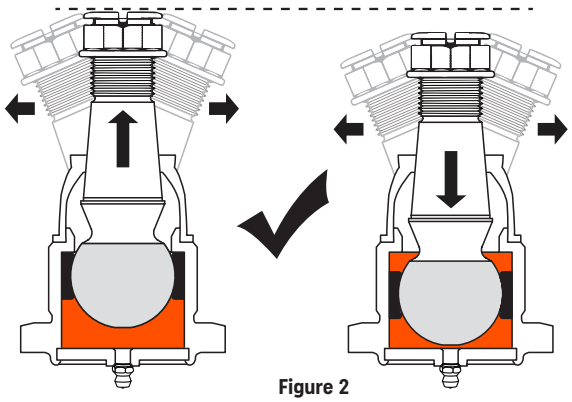
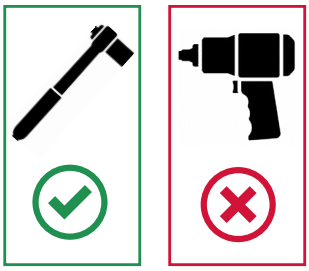


Figure 2

• Ensure to follow the torque sequence as outlined below and in **Figure 3**. It is recommended to perform this sequence with the steering knuckle in the straight-ahead position. This ensures steering knuckle is properly aligned to the axle assembly.

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Re-Assembly Torque Sequence



1. Torque Lower ball stud nut to (148LB-FT/200N-M)
2. Thread Upper ball joint into knuckle and torque to specifications (295LB-FT/400N-M)
3. Torque Upper ball stud nut to (148LB-FT/200N-M)
4. Torque Lower ball stud nut to (148LB-FT/200N-M)

Continue to tighten the nut to the next available slot. Never back off the nut to align hole in the stud for cotter pin insertion.

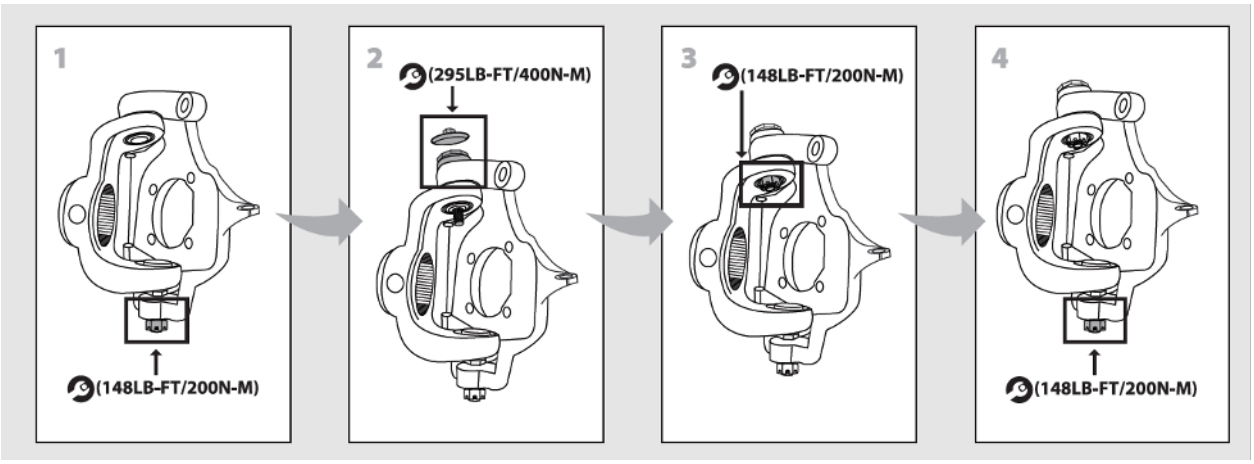


Figure 3

WE SUPPORT
ASE CERTIFICATION

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