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Service Tips and Best Practices

Front Upper Ball Joint Installation - 2020-2012 Tesla Model S

Brand	Supreme	Product	Ball Joint	Date	July 2021
Part Number(s)	MS95502				

Installation Notes: General

- Discard old nuts and bolts. Do not reuse hardware.
- Inspect all mating surfaces and replace mating components if damaged or out of specification conditions are found.
- Remove all rust, burrs and other contaminants from the steering knuckle bore and other mating surfaces.
- Refer to Mevotech Insider "Best Practices – Pinch Bolts and Steering Knuckles" (MI-21-098-04-01), for an optimal repair outcome when removing and fitting the upper steering knuckle pinch bolt.
- Use only a calibrated torque wrench for all fastening procedures at correct preloaded vehicle ride height.
- If vehicle is equipped with air suspension, deflate both front air bags before commencing repair.
- Perform 4-wheel vehicle alignment after repair.



Installation Notes: Ball Joint to Control Arm

When servicing ball joints attached by rivets onto the control arm body, pay special attention to rivet removal, so as to not damage the body of the control arm assembly. Control arm surfaces must be free from dirt, cracks and any burrs generated from the removal of rivets.

- This control arm may be equipped with a tapered shank-type rivet. Forcing out a tapered shank rivet in the incorrect direction may damage the control arm beyond use. It is recommended to remove both sides of the rivet head and then carefully remove any other rivet fragments from the control arm assembly.
- **See Figure 1** for ball joint to control arm body fastening values.

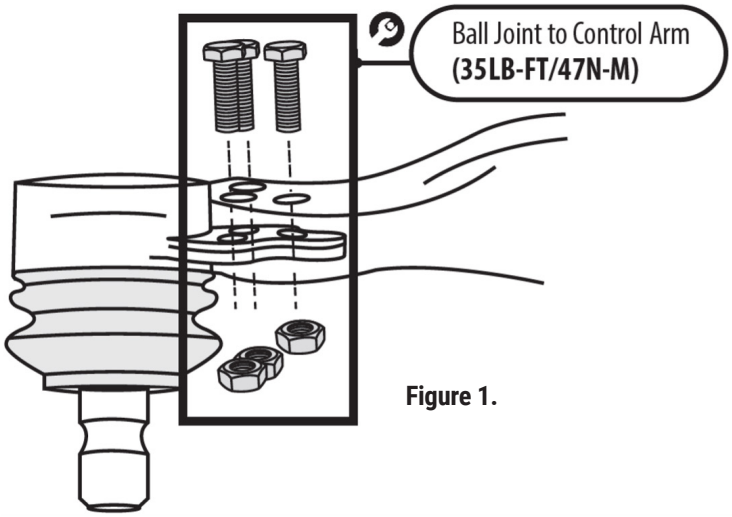


Figure 1.

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Installation Notes: Control Arm to Steering Knuckle

- **See Figure 2** for control arm to steering knuckle and frame fastening values.

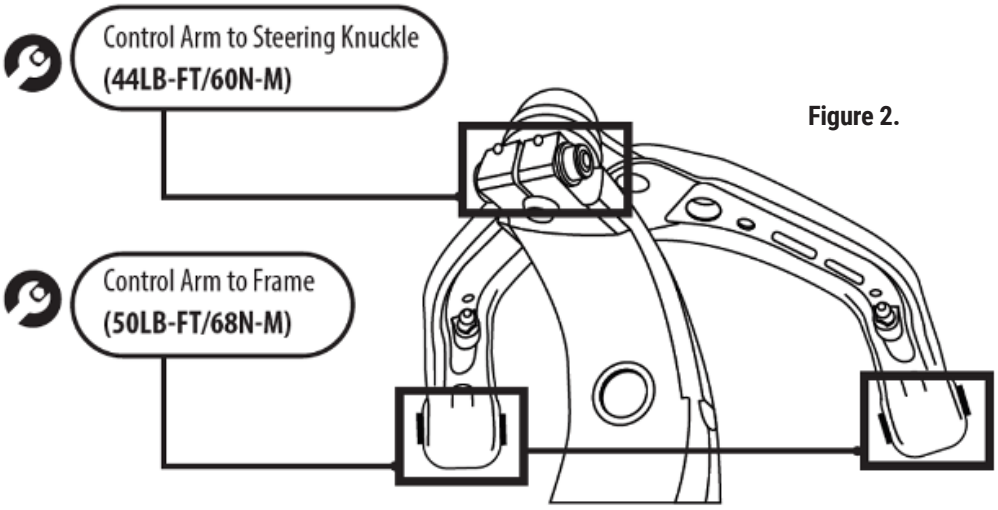


Figure 2.

Always reference original factory service manual for proper diagnostic, removal and replacement procedures, as well as all related specifications and values.

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