

# Z1 FORGED FUCA REPLACEMENT BALL JOINT INSTALLATION MANUAL

**PROLOGUE:**

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

**WARNING!**

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Motorsports Forged FUCA Replacement Ball Joint, consult with a Professional Mechanic, or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Ball Joint

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Wrenches
- Assorted Metric Sockets
- Press or Ball Joint Removal Tool

## **SAFETY REQUIREMENTS:**

- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Only operate drivetrain in safe space and well-ventilated areas.

## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Motorsports Forged FUCA Replacement Ball Joint and verify that ALL necessary hardware is present.

## **PROCEDURE:**

1. Refer to either the [Z33 FUCA Install Manual](#) or the [Z34/RZ43 FUCA Install Manual](#) to remove your Forged FUCAs from the vehicle.
2. Place your Ball Joint(s) in the freezer. Freezing them will allow the Ball Joint to be pressed in easier in the later steps.
3. Remove the Black Ring securing the bottom of the Ball Joint. It can be pried out using a pick or similar tool. *Figure 1.*



*Figure 1*

4. Remove the Zerk Fitting on the bottom of the Ball Joint. *Figure 2.*



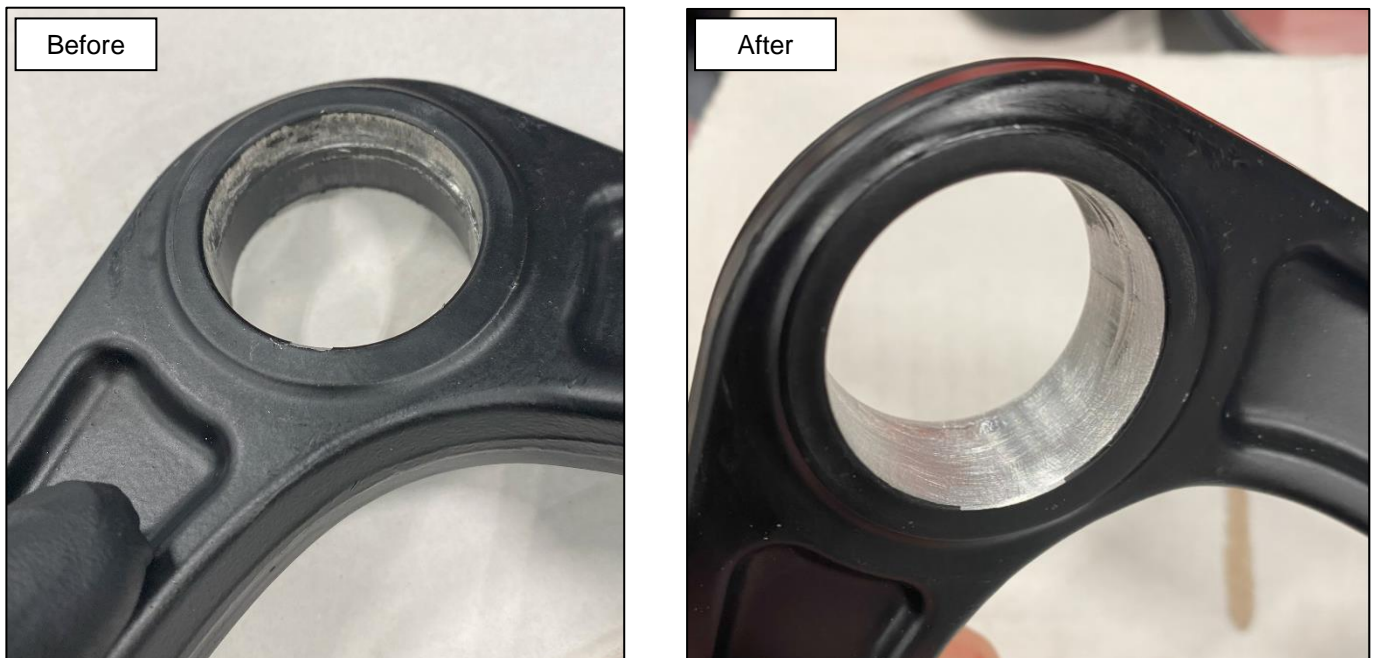
*Figure 2*

5. Using a press or a ball joint removal tool, press on the bottom of the Ball Joint to remove it from the Control Arm. *Figure 3.*



*Figure 3*

6. Clean the inside of the Control Arm where the new Ball Joint will sit. File any lips or edges that may have been created when removing the Ball Joint. Remove all debris as this can prevent the new Ball Joint from being installed correctly. *Figure 4.*



*Figure 4*

7. Locate a new Ball Joint and remove the (3) three clips securing the bottom of the Ball Joint and the Ball Joint Boot, as well as the Zerk Fitting on the bottom of the Ball Joint. Retain these clips.
8. Position the Ball Joint into the Control Arm, and make sure it is as straight as possible. *Figure 5.*



*Figure 5*

9. Locate a suitable impact socket that fits on the edge of the Ball Joint and press the Ball Joint into the Control Arm with a Hydraulic Press or Ball Joint Tool. Make sure the Ball Joint goes in straight when pressing. *Figure 6.*



*Figure 6*

10. Clean up any debris that may have appeared from pressing in the Ball Joint.
11. Reinstall the Ball Joint Boot and the (3) three clips removed in *Step 7*. Be careful not to tear the Ball Joint Boot when reinstalling. *Figure 7*.



*Figure 7*

12. Reinstall the Zerk Fitting into the bottom of the Ball Joint.
13. Reinstall the Control Arm into the vehicle. Follow the Install Manual for your specific model regarding the installation procedure.
14. Grease the Ball Joints through the supplied Zerk Fitting prior to operating the vehicle.

**END**

**Additional Technical Support:**  
Contact Z1 Motorsports at [info@z1motorsports.com](mailto:info@z1motorsports.com)  
Or call 770-838-7777 between 9am and 6pm ET