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300ZX Front Upper Control Arm (FUCA) Set Street & Race Version Installation Manual



PROLOGUE:

Study these instructions completely and thoroughly before proceeding to assemble. Installation can be completed using common tools and automotive procedures. 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 ANY 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 the installation or the various components included with the Z1 Motorsports 300ZX Front Upper Control arms, consult with a Professional Mechanic or contact Z1 Motorsports for more information.

Parts Included:

Control Arm Set - Street Version		
Item	Quantity	Description
1	2	Fully-Assembled Control Arm
2	1	Capsule, Loctite #271 Thread Locker

Control Arm Set - Race Version		
Item	Quantity	Description
1	2	Fully-Assembled Control Arm
2	1	Capsule, Loctite #271 Thread Locker
3	2	M12-1.25 x 140mm Bolt
4	2	M12-1.25 Locking Hex Nut

Recommended Tools:

- Hydraulic Jack
- (2) Jack Stands
- Wheel Chock
- Lanyard
- Ratchet
- Ratchet Extension Bar
- 17mm Socket
- 17mm Wrench
- 14mm Socket
- 14mm Wrench
- Crescent Wrench (up to 30mm)
- Torque Wrench

Safety Requirements:

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

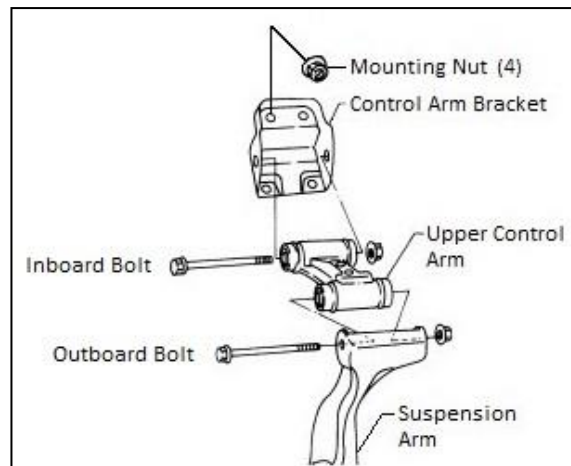
***BEFORE YOU BEGIN!**

Remove contents from the Z1 Motorsports 300ZX Front Upper Control Arm (FUCA) Set and verify that ALL necessary hardware is present.

Installation:

1. Turn off Vehicle's engine and place transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply Parking Brake and Wheel Chock to backside of rear tire.
2. Raise and support front of vehicle. Locate proper jacking points on vehicle's Chassis (Refer to vehicle's Owner's Manual).
3. Remove Front Driver and Passenger side Wheels.

Use the diagram below for the following steps:



4. **Wrap Lanyard Strap around Suspension Arm and Strut Assembly. Lanyard will prevent brake line from becoming stretched/damaged during installation process.**

5. **Remove Outboard Nut & Bolt which attaches OEM Upper Control Arm to the Suspension Arm.**

Note: Label Inboard and Outboard Bolts, as they are not the same and will need to be placed in its OEM location & direction.

6. **Remove (4) Mounting Nuts which attaches Control Arm Bracket to Chassis.**

7. **Remove OEM Upper Control Arm & Control Arm Bracket assembly from Vehicle.**

8. **Remove Inboard Nut & Bolt which attaches OEM Upper Control Arm to Control Arm Bracket.**

Note: Label Inboard and Outboard Bolts, as they are not the same and will need to be placed in its OEM location & direction.

9. **Locate Z1 Front Upper Control Arms (FUCAs)**

Use the diagram shown for the following steps:



10. Adjust Z1 FUCA length to match the OEM Control Arm (approximately 180mm). Tighten Jam Nuts against FUCA Ends, but do not add Thread Locker.

Note: Assure that Adjuster is centered between both FUCA Ends.

Note: Z1 FUCAs are symmetrical and can be installed to either Driver or Passenger side without issue.

11. Locate and place Inboard End of Z1 FUCA into Control Arm Bracket, with Z1 Logo facing downward.

Note: Inboard End is indicated with a marking on its Sleeve & Bushing (as shown).

Note: Assure that Control Arm is secured tightly inside Bracket.



12. Insert Nut & Bolt through Inboard Z1 FUCA End and Control Arm Bracket. Torque to 65-80 ft.-lbs.

Note: Assure that Bolt is facing the direction as originally installed.

Note: Mount Race Version Fuca End to Control Arm Bracket using M12-1.25 x 140mm Bolt and Nut provided.

13. Install Z1 FUCA and Control Arm Bracket assembly onto Chassis. Tighten (4) Mounting Bolts.

Torque (2) Upper Mounting Nuts to 80-94 ft.-lbs.

Torque (2) Lower Mounting Nuts to 43-58 ft.-lbs.

14. Align Suspension Arm to Z1 FUCA, with Z1 Logo facing upward

15. Insert Nut & Bolt through Outboard Z1 FUCA End and Suspension Arm. Torque to 65-80 ft.-lbs.

Note: Assure that Bolt is facing in the direction as before.

Note: Insert Bolt provided with Racing Version of Z1 FUCA, if applicable.

16. Remove Retaining Lanyard

17. Re-Install Wheel & Lug Nuts

18. Repeat steps #4-17 to opposite side of Vehicle.

Note: Do not mix Driver and Passenger Side Control Arm Brackets & Hardware.

19. Carefully lower vehicle from Jack Stands.

20. Perform an Alignment Check & Adjust Z1 Front Upper Control Arms accordingly.

Note: Assure that exposed threads of standard length adjuster do not exceed 18mm at each end.
Exposed threads of extended length adjuster must not exceed 38mm at each end.

Note: Once Z1 FUCA is set, loosen Jam Nut and apply Red Thread Locker to exposed threads at both ends of Adjuster. Thread Jam Nut over Thread Locker and tighten against FUCA End.

21. Perform a final test drive of the Vehicle.

End

Additional Technical Support:

Contact Z1 Motorsports at info@z1motorsports.com

Or call 770 838 7777 between 9am and 6pm ET