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Z1 Motorsports 300zx Twin Turbo Oil Cooler Upgrade Installation Manual



Standard Kit Includes:

- 1 Z1 Motorsports Custom Oil Cooler Mounting Bracket
- 1 Setrab 19 Row Oil Cooler Core with -6AN Fittings
- 2 -6AN 90° Push on Fittings
- 4 M6-1.0 x 16mm Bolts
- 4 M6 Rubber Bonded Washers
- 4 M6 Split Lock Washers
- 4 M6-1.0 Nuts
- 1 Z1 Motorsports Installation Sheet

OPTIONAL - NA Hardware Kit Includes:

- 1 Threaded Rivet Nut Installation Tool w/ Instructions Sheet
- 5 M6-1.0 Threaded Rivet Nuts
- 4 M6-1.0 Bolts

**NA Hardware Kit is for Twin Turbo Swapped NA Models ONLY. This assumes that you are reusing the Twin Turbo Oil Filter Tree and Lines. If you are not, please contact the Z1 Motorsports Parts Department for more information as other parts may be necessary.*

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 of the various components included with the Z1 Motorsports 300zx Oil Cooler Upgrade, please consult with a Professional Mechanic or contact Z1 Motorsports for more information.

Installation Note #1:

It is recommended that you perform the installation of the Z1 Motorsports Oil Cooler Upgrade at the scheduled Oil Change interval. This is due to the fact that some Engine Oil must be removed / replaced in order to properly install the kit.

***BEFORE YOU BEGIN!**

Remove all contents from the Z1 Motorsports 300zx Oil Cooler Upgrade and verify that ALL necessary hardware is present.

Installation (FOR ALL MODELS):

1. Properly raise and support your 300zx using jack stands and the proper jacking points on your vehicle's chassis (Refer to vehicle's Owner's Manual)
2. Apply the Parking Brake
3. Raise the vehicle's Hood
4. Remove the Front Nose Panel (Between Headlights).
5. Remove the factory Air Box Assembly or Aftermarket Air Intake Filter.

Installation Note #2:

Removal of the front fascia is not necessary, however it will allow for more room to work on the vehicle with less stress.

6. Drain engine oil and remove engine oil filter (Dispose on engine oil properly and clean up any spills or leaks)

Factory Twin Turbo Models (Non Turbo Models skip to Step 18):

7. Remove the factory 300zx Twin Turbo Oil Cooler Kit and associated hardware. This includes the following items:
 - 1) Oil Cooler Core
 - 2) Oil Cooler Bracket (Keep the four M6 x 1.00mm bolts as they will be reused)
8. Locate the supplied Z1 Motorsports Custom Oil Cooler Bracket and Hardware.
9. Using the factory M6 x 1.00mm bolts, secure the Z1 Motorsports Oil Cooler Bracket in place of the factory bracket.
10. Install the -6AN push fittings into the factory oil cooler lines and secure with the factory clamps. Be sure the fittings are completely inserted into the lines.

Installation Note #3:

It is highly recommended that the oil cooler core be pre-filled with fresh engine oil before installation. This will prevent the possibility of a dry start up when cranking the engine and will limit the time the engine will be without oil while the oil cooler lines are primed.

11. Using a suitable lubricant, apply a thin coat of lubricant to the AN Fittings' O-rings. Install the fittings onto the oil cooler core.
12. Install the pre-filled oil cooler core onto the previously installed Oil Cooler Bracket. Use the supplied hardware as shown in Figure A. Be sure not to tip over or spill any oil while installing the oil cooler core. This step is achieved by dropping the oil cooler core down thru the nose panel (if the front fascia has not been removed).

Figure A

Insert Bolt through the Oil Cooler Core and Hardware in the following order:

- Oil Cooler Core
- Rubber Bonded Washer (Rubber towards mounting bracket)
- Mounting Bracket
- Split Lock Washer
- Hex Nut



13. Re-fill the engine with oil. Keep in mind, the oil capacity will be increased by about 0.5 ~ 0.75 Quarts. (It is safer to start by adding about 3.5 qt when performing this installation)
14. Start the engine and ensure that the oil pressure returns to NORMAL. Once it has done so, turn the engine back off and inspect for any possible oil leaks.
15. Re-check the engine oil level.
16. Re-install any previously removed hardware including splash shield and nose panel.
17. Perform a final test drive of the vehicle. Make sure you periodically check for any oil leaks.

**This completes the installation of the Z1 Motorsports
300zx Twin Turbo Oil Cooler Upgrade.**

Factory Non Turbo Models:

18. Locate the following supplied items:
 - 1) Threaded Rivet Nut Installation Tool w/ Instruction Sheet.
 - 2) Threaded Insert Rivets (x5)
 - 3) M6-1.0 Bolts (x4)
19. Located under the nose panel, just in front of the A/C Condenser Fan, there are 4 pre-drilled holes that mark where the factory Nissan Oil Cooler Kit is placed on the Twin Turbo models. These holes are not tapped and will not accept any bolts. Following the instruction sheet supplied in the Threaded Rivet Nut Tool, install four of the Threaded Rivet Nuts into these four holes. A fifth threaded rivet nut is supplied in the event a rivet nut is damaged during installation.
20. Locate the supplied Z1 Motorsports Custom Oil Cooler Bracket and Hardware.
21. Using the M6 x 1.0 bolts supplied in the NA Hardware Kit, secure the Z1 Motorsports Oil Cooler Bracket in place of the factory bracket.
22. Proceed to step 10.