



Alpha 997.1 Intercooler

Install Instructions w/stock turbo



The goal of Alpha Performance is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs Alpha Performance will never compromise the quality or performance of our products. In addition, Alpha Performance will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. Alpha Performance was built on a foundation of integrity. This is who we are; this is what you can count on.

A vehicle modified by the use of performance parts may not meet the legal requirements for use on public roads. Federal and state laws prohibit the removal, modification, or rendering inoperative of any part or element of design affecting emissions or safety on motor vehicles used for transporting persons or property on public streets or highways. Use or installation of performance parts may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty, and/or new OEM part warranty. Performance parts are sold as-is without any warranty of any type. There is no warranty stated or implied due to the stresses placed on your vehicle by performance parts and our inability to monitor their use, tuning, or modification.

These instructions are provided as a guide only as there are many variables that cannot be accounted for concerning your particular vehicle, including but not limited to model year differences, model differences, the presence of non-OEM parts, and modifications that may already be or were previously installed. A basic knowledge of automotive parts and systems is helpful but a better understanding of the parts and systems on your particular vehicle may be required.

If you have any questions or issues at any time during the installation of your Alpha Performance product(s) please call us for technical assistance. The Alpha Performance tech line can be reached during business hours at 847-709-0530 for Alpha Performance products only.

- 1) Start by removing the rear bumper to gain access to the intercoolers.
- 2) Remove the factory y-pipe and rubber charge hoses pre and post intercooler.
- 3) Unbolt both intercooler mounting bracket and remove the factory intercooler assemblies.
- 4) Once on the ground, remove the intercoolers from the mounting brackets. Leave the rubber mounts in the brackets. They will be reused.
- 5) Insert the collared spacers into the rubber bushing on the brackets with the collar facing outwards away from the intercooler.
- 6) The factory lower intercooler duct needs to be trimmed to fit the new intercooler. (locating rib needs to be eliminated)
- 7) Install the new AMS intercooler into the bracket using the M10 x 25 bolts. Make sure the factory lower air duct is in place.
- 8) Place the Alpha carbon air duct on the intercooler and mark where it sits on the intercooler core. There are 4 8.5" strips of foam that will be placed there across the intercooler to prevent any noise and chaffing. Place the foam strips down and install the carbon ducts.
- 9) Install the rubber o-rings onto the side brackets of the carbon duct down to the factory lower air duct. These are there for ease of installation and are not used to hold the air duct in place. Once the assembly is installed, the carbon duct will not move.



May Need Clearance



Change This Bolt

Performance Packages

- 10) Before installing the intercooler assemblies, replace the 2 bumper clip bolts shown in the picture with the supplied shorter m6 bolts and large washers. They are the bolts closest to the corner of the bumper where it meets the quarter panel. The factory bolts in these locations are too long and may contact the carbon air duct. See illustration.
- 11) Test fit the intercooler assemblies. There is part of the body just under the tail light that may need to be trimmed to clear the carbon air duct. Some cars will need this done depending on model and year but most will not. Once cleared, install the intercooler assemblies and adjust so the intercooler outlets are centered. This is so the outlet silicone can pass through into the engine bay without interference.
- 12) There is plenty of room for adjustment in the brackets. Adjust as necessary to align the intercoolers.
- 13) Install the stock turbo outlet adapter rings. They will snap into place on the factory groove. These allow the use of the new Alpha silicone hoses.
- 14) Install the turbo outlet to intercooler silicone with the supplied hose clamps. The Passenger side wheel well may need some slight trimming at the very bottom to clear the silicone.

- 15) Install the factory air box. The factory air box is highly recommended!!! It has been proven to have no HP restrictions even at 800+ WHP and provides the best seal for fresh air. All other open air inductions in the engine bay will lose significant HP due to the filter being open to hot engine bay air.
- 16) Next install the intercooler outlet silicone. Leave everything loose until fully installed and adjusted.
- 17) Plug the Pop Valve outlets with the supplied plugs. These ports are for our Alpha Turbo which utilizes Pop Valves. They are not used on cars with stock turbos.
- 18) Remove the MAP sensor from the factory Y-pipe and install in the new Alpha Y-pipe.
- 19) Remove the factory Y-pipe to throttle body coupler and install onto the new Alpha Y-pipe. Make sure this coupler snaps into place when installing.
- 20) There are 2 additional 1/8" NPT ports on the Alpha Y-pipe that are plugged. These are just additional ports and are not used. Make sure these plug are tight if the ports are not being used.
- 21) Install the new Alpha Y-pipe and tighten all the clamps after everything is adjusted. Make sure all factory lines, P/S, A/C etc are in place.
- 22) Reinstall the bumper.

