



**Installation Manual v1.2:  
ATS Sub Zero Intercooler Kit  
2003-08 Dodge, Common Rail 5.9L and 6.7L**

**Please read all instructions before installation.**

**Warning: If the engine was just turned off, the air intake system tubes may be hot!**



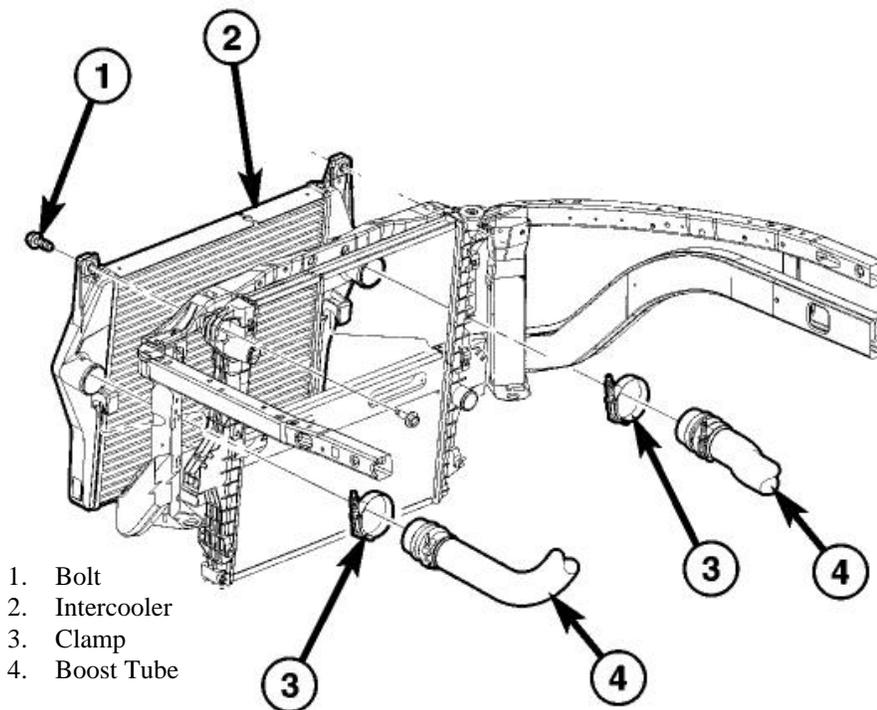
**Figure 1 - ATS Sub Zero Intercooler Kit**

Prior to installation, visually inspect the ATS Sub Zero Intercooler for cracks, holes or damage. All intercoolers are carefully pressure tested, inspected and packaged but damage can occur during shipping. If intercooler arrives damaged, please contact ATS customer service.

Visually inspect interior of inlet and outlet tanks for debris. ATS Sub Zero Intercoolers are packaged to prevent anything from entering tanks during shipping but ATS suggests double checking prior to installation.

If debris of any kind is present, position the intercooler so the inlet and outlet tubes are vertical. Shake the intercooler and lightly tap on the end tanks with a rubber mallet to dislodge trapped debris. Rinse thoroughly with clean water and blow dry with compressed air.

1. Disconnect the negative(-) battery cable(s) and secure them away from the negative battery terminal(s).
2. A majority of the time, it is possible to unbolt the A/C condenser and tie it out of the way if the condenser uses flexible lines (if equipped with A/C). On some vehicles, however, it may be necessary to discharge the A/C system and remove the A/C condenser.

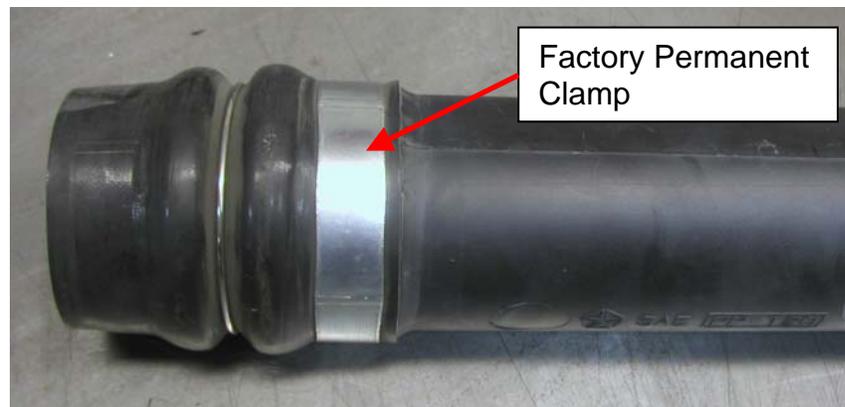


**Figure 2 - Factory Intercooler Assembly**

3. Loosen the clamps shown in Figure 2.
4. Disconnect the factory boost tubes from the factory intercooler.
5. Remove the factory intercooler bolts located on the top of the tanks. Pivot the intercooler forward and up to remove.

6. Slide the ATS Sub Zero Intercooler into the truck in the same orientation the factory intercooler came out.
7. Reinstall the factory bolts and tighten bolts to **17 in-lbs**.
8. Install new intake boots and factory charge tubes using supplied and factory clamps. Tighten clamps to **95 in-lbs**.

**Note:** vehicles with 6.7L engines have permanent clamps on the driver's side boost tube. The clamp on the intercooler outlet side of the tube has to be removed to install the new 3" to 3.5" boots supplied with the kit. The clamp can be easily cut off using an angle grinder with a cutoff wheel or equivalent. Take care not to cut too deep so as not to damage the plastic boost tube. This is where the 3.5" clamp is used.



**Figure 3 - 6.7L Boost Tube Permanent Clamp**

9. Install the A/C condenser (if equipped) and recharge A/C system (if necessary) using supplied hardware.
10. Reconnect negative (-) battery cable(s).
11. Start engine and check for boost leaks. Soapy water can be sprayed onto intercooler and boots to check for leaks.

## **Have Any Questions?**

Thank you for purchasing the ATS Sub Zero Intercooler Kit. Please check our website at <http://www.atsdiesel.com> for technical support and other performance products such as the 5-Star™ torque converter, ATS High Performance Valve Body and ATS High Performance Transmission along with our full line of power enhancers. Please call or e-mail our Technical Service Department, 8:00am to 5:30pm Mountain Standard Time, Monday through Friday.

### **Contact Information**

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We strive to make our instructions as clear and complete as possible. To achieve this, our instructions are under constant construction. We encourage you to visit our Technical Support Website (<http://www.atsdiesel.com/ATSWebsite/Technical.asp>) to check for the most up-to-date manuals and diagrams as well as other information. If you have any suggestions as to how we can improve this installation manual, let us know at <mailto:Suggestions@ATSDiesel.com>.

## **Bill of Materials**

1. (1) ATS Sub Zero Intercooler 2272-203-100
2. (2) 3" to 3.5" Silicone Boots 1000-202-019
3. (2) 4" T-Bolt Clamps 94100-0400
4. (1) 3.5" T-Bolt Clamp 94100-0350
5. (4) 5/16-18 x 3/4 Bolts 616
6. (4) 5/16 Flat Washers 88446
7. (1) ATS Parts Catalogue
8. (2) ATS Stickers

Not Pictured:

9. (1) ATS Instruction Manual