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# Installation Instructions

This guide covers the following Item Numbers:

1000, 1004, 1006, 6312, 6315, 6318, 6321

*Congratulations, you have made a wise decision. Thank you for purchasing our product.*

## Frame Rail Transmission Cooler

**IMPORTANT!** READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

Your frame rail transmission fluid cooler coil has been designed and built with patented Turbulators™ (U.S. Patent 4,190,105). This allows these coils to fit along the frame rail or other out of the way locations, and still deliver exceptional cooling. Naturally it should be protected from flying objects, and contact with any other moving parts.

Perma-Cool® Frame Rail Coolers come with -6 AN Male Fittings (for use with braided steel hose) and Perma-Cool® exclusive AN to Hosebarb fittings for use with standard high temperature - high pressure oil hose. Heavy Duty Frame Rail Transmission Coolers feature 3/8" NPT (Int.) fittings. For easy installation it is recommended that Perma-Cool's Transmission Cooler Mounting System, part number 107, be used (available separately).

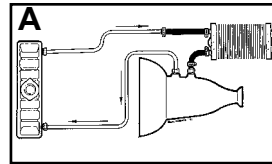
**CAUTION:** DO NOT remove protective wrapping around cooler coil until installation is completed!

Find a convenient or accessible location to mount the coil to the vehicle. Attach the coil with the sheet metal screws. Install the coil with a minimum of 7" (178 mm) from hot exhaust pipes or mufflers. If mounting along the frame, attach to the opposite side, parallel to the exhaust system.

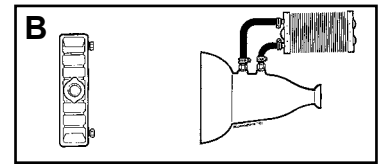
There are two different ways to install the frame rail cooler. It can be installed in **Series Method** (see illustration A) or using the **Bypass Method** (see illustration B). On all frame rail coolers with AN fittings it is necessary to use a back-up wrench when attaching the AN female fittings and braided steel hose. On Heavy Duty Coolers only with 3/8" NPT fittings use Teflon® tape or appropriate sealant. Once the frame rail cooler is securely mounted, remove the protective wrapping.

**CAUTION:** Avoid hot exhaust pipes, manifolds, or headers. DO NOT BEND the hose tighter than a 5" radius. Secure hoses with clamps or tie-straps if necessary.

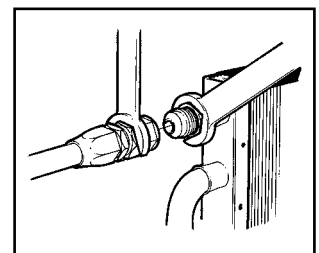
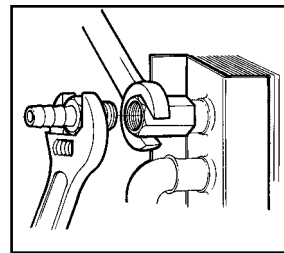
**NOTE:** The preceding instructions are provided as a general guide. After installation, operate the vehicle in a normal manner for a day or so. Recheck all fittings and clamps for proper tension. Retighten if necessary.



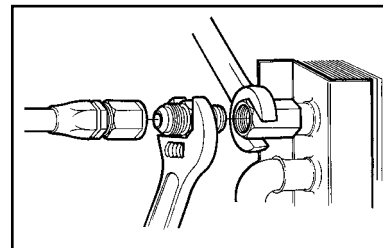
**Series Method**



**Bypass Method**



Hosebarb or AN Adapter fittings require use of back-up wrench on coil fitting



### Accessories Available:

- P/N 107 Transmission Cooler Mounting System
- P/N 130 Replacement Fluid Hose, 11/32" x 4'
- P/N 133 Replacement Fluid Hose, 11/32" x 25'
- P/N 1060 Transmission Fluid Thermostat
- P/N 1160 Thermostat Mounting System
- P/N 15106 Temperature Gauge System
- P/N 15148 Brass Fittings, 1/8" MPT x 3/8" Hose Barb
- P/N 15152 Brass Fittings, 3/8" MPT x 3/8" Hose Barb
- P/N 15167 Brass Fittings, 1/8" MPT x 3/8" Hose Barb 90°
- P/N 15266 Adapter Fitting, -6 AN Male to 3/8" MPT
- P/N 10678 Transmission Fluid Filter System

For additional accessories or replacement parts visit [www.perma-cool.com](http://www.perma-cool.com)