



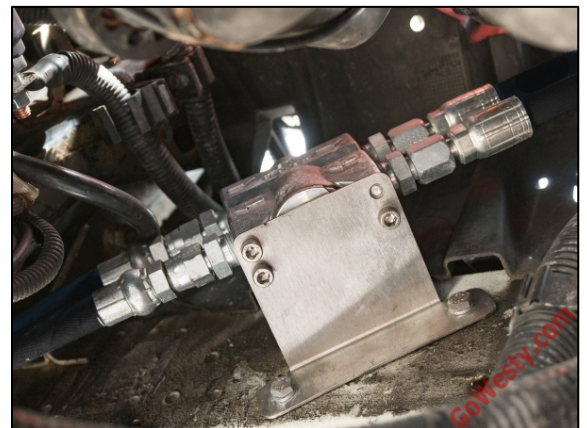
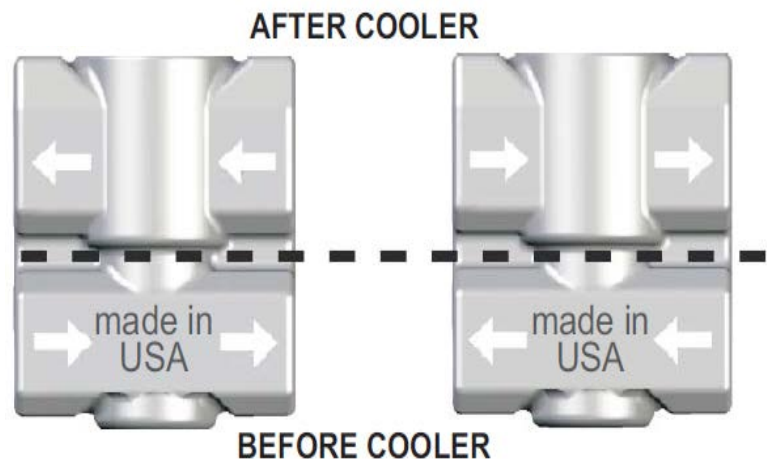
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EV-AT-COOLER

External Automatic Transmission Cooler [Eurovan]

DISCLAIMER: *It is recommended that a professional mechanic install this kit. This kit is **not a simple install**. The front end of a Eurovan is a crowded and difficult place to work. At a minimum, disassembly of the front end is required, as for a major service (removing the grill and tilting the radiator assembly forward).*

- Remove the existing transaxle cooler. For detailed instructions on how to remove the original cooler, refer to the workshop manual.
- Insert the plastic restrictor into the hose that was attached to the forward nipple on the cooler (the one that Ts into the 1.25" upper radiator hose). This restrictor maintains proper fluid flow through the system. Connect the coolant hoses together using the supplied straight fitting and clamps.
- Attach the adaptor fittings to top of transmission with the thick aluminum sealing washers (don't reuse the stock o-rings). Make sure the washers are fully seated in the depression. Torque to 20 ft-lbs.
- Loosely attach the 90-degree end of the hose to the fittings on top of the transmission.
- Route the hoses behind and to the outside of the transmission mount and forward along the side of the frame rail.
- Assemble the thermostat with the four remaining fittings. Use the blue thread locker provided to seal the threads—and use just enough to form a thin smear all the way around the first few threads. *Note: The thermostat opens fully at 180° F.*
- Loosely attach the hoses from the transmission to the thermostat. The **rear port** of the transmission is the **output** and should be attached so the flow matches up with the arrows on the thermostat and goes to the "smaller" end of the thermostat (the side with the "Made in USA" logo in the diagram at right).
- Install the thermostat mounting bracket. Depending on your vehicle there are two different ways to do this. The bracket is designed to attach to mounting holes present in the frame rail of the vehicle. In early vehicles there is a bracket for the ABS module that utilizes these holes. If this is present, simply remove the two 6mm mounting bolts and use them to affix the thermostat bracket in place over the top of the bracket. In later vehicles, these holes are not utilized, but are present in the frame rail. If this is the case, drill the holes out to 25/64" and install the 6mm rivet nuts per the instruction included with the RIVNUT-BOLT-TOOL.





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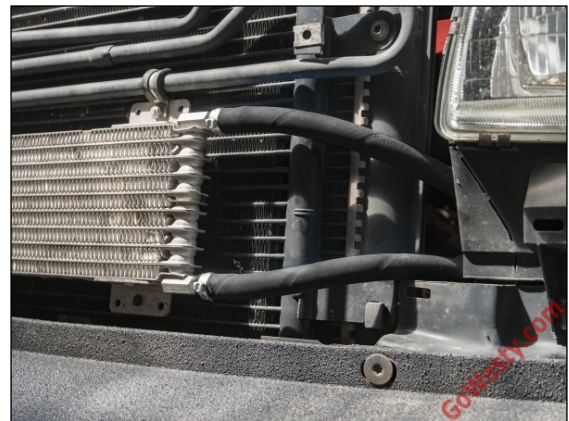
External Automatic Transmission Cooler [Eurovan]

- Attach the thermostat to the mounting bracket with the four ¼" internal hex bolts. Utilize the blue thread locker on these bolts as well. The thermostat and bracket can be oriented up or down depending on your particular installation and preference.

- The cooler itself is attached to the power steering cooling loop with the included adel clamps and 5mm machine screws and nuts. The rubber bumpers are installed on the lower tabs of the cooler to cushion it where it will contact the radiator. Simply push them in from the rear until they seat into place.



- The long hose runs between the cooler and the thermostat. Cut a small section of the shroud between the radiator and the body of the vehicle to pass the hose through. You can add some large rubber hose or other material around the hoses here to protect against abrasion if necessary. **Be sure to leave enough length in the hose to allow the cooler to be tilted forward, along with the whole radiator assembly, when it is tilted out during service appointments.**



- Attach the hose to the cooler and the thermostat using 2 of the ear (Oetiker) clamps at each junction. The cooler is not directional, so it doesn't matter which hose is connected to the top vs. the bottom.
- Make sure all connections are tightened down and fill transmission to appropriate level using the standard filling method. Overall fluid volume increase is roughly 0.25 liters.