

OIL COOLER KITS

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INCLUDED:

- Cooler
- Fittings
- 4 Clamps
- Hardline Adapter
- Mounting Kit
- Hose



Zirgo's™ transmission & fluid coolers prevent your engine oil and transmission fluids from reaching their limits. At high temperatures, these fluids can create a varnish on critical engine and transmission components, harden seals, cause transmission plates to slip, and cause transmission clutches to burn out. Extend the mileage of your fluids by keeping them cool, and extend the life of your car or truck.

Slim design makes it simple to mount in remote locations. Advance finned aluminum design expedites the removal of heat from the fluid, while routing the air down the complete cooler length.

REASONS FOR INSTALLING AN OIL COOLER

ADDITIONAL COOLER

When your vehicle transmission is under additional load because of towing, roof racks, extra cargo load or driving cycle, an additional transmission oil cooler will prolong the life of your transmission.

Original equipment coolers are designed only:

- a.) To be adequate for normal loading and operating requirements
- b. To protect the transmission from the destructive effects of overheating

Additional cooling capacity is needed for:

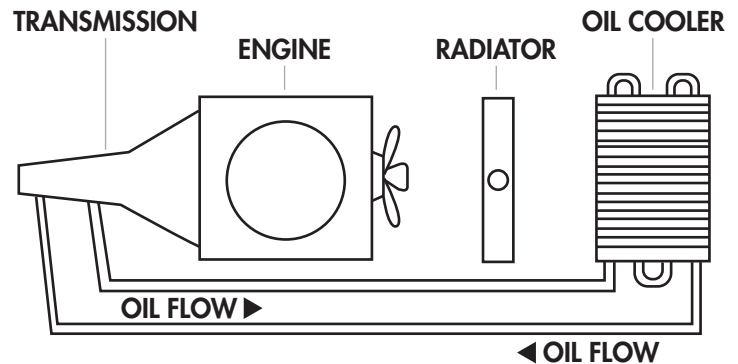
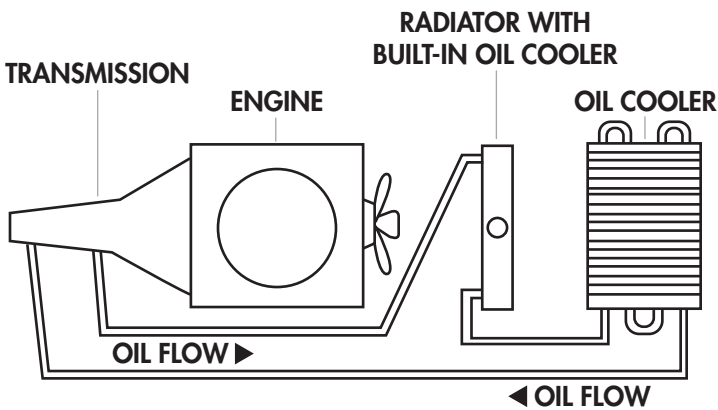
- a.) Extreme load conditions (towing and hauling)
- b.) Hilly terrain
- c.) High ambient air temperatures
- d.) Stop-and-go driving

REPLACEMENT COOLER

When your factory transmission oil cooler, installed in the radiator, becomes clogged or develops leaks, install a new transmission oil cooler as a replacement.

DIAGRAM

OVERHEAD VIEW



- 1 Normally the line entering the transmission at the rear connection is the return line.
- 2 The oil return line will be cooler to the touch than the line bringing oil from the transmission to the cooler.

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INSTALLATION



WARNING: To achieve maximum cooling efficiency, the transmission oil cooler should be installed in front of the radiator or air conditioning condenser. Cooling air must pass through the fins of the transmission oil cooler either from ram air or the engine cooling fan drawing air through the oil cooler. The oil cooler can be mounted in any vertical, horizontal or diagonal position. Do not mount the transmission oil cooler in a location where it may be damaged by road debris.

- 1 Push the four plastic screws through the flange on the oil cooler and slide a rubber spacer onto each screw.
- 2 Position the cooler in front of the car's radiator or A/C condenser with the hose fittings near the car's transmission oil hoses.
- 3 Gently push the plastic screws through the radiator and/or A/C condenser fins. Twist or turn the screw to ease penetration between the fins without damaging the radiator tubes.
- 4 Slide the disk nut onto the screw until it touches the radiator or A/C condenser. Turn the nut until snug.

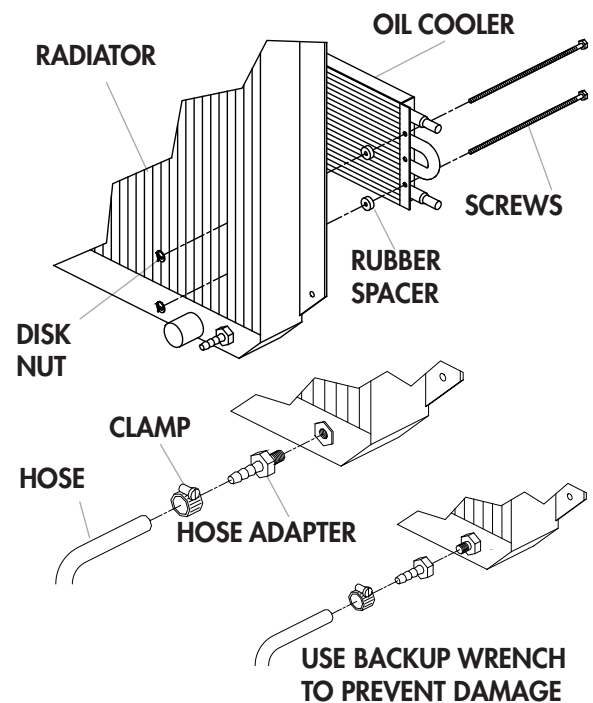
When installing an additional transmission oil cooler:

- a.) Disconnect the transmission fluid return line from the radiator.
- b.) Install the correct hose adapter fitting into the transmission oil return line and radiator transmission oil return fittings. Some newer vehicles require different adapters, available at your local parts store.
- c.) Cut a length of hose to reach from the radiator fitting to the oil cooler hose fitting. Attach the hose using hose clamps provided. (Do not over tighten clamps.)
- d.) Use another length of hose to attach the transmission oil return line to the remaining oil cooler fitting. Attach using hose clamps.
- e.) Check and replace transmission fluid as required.

When installing a replacement cooler:

- a.) Disconnect both transmission oil lines from the radiator and transmission.
- b.) Cut a length of hose to reach from each transmission oil line to the newly installed cooler fittings.
- c.) Attach hoses using clamps to the cooler from the oil lines. (Do not over tighten.)
- d.) If your radiator transmission oil cooler is leaking, plug the radiator fitting.

NOTE: Hoses should not hang loose. Secure hoses to prevent chafing or damage from vibration or hitting other objects. Do not over tighten hose clamps. Hoses should be free of sharp bends or kinks.



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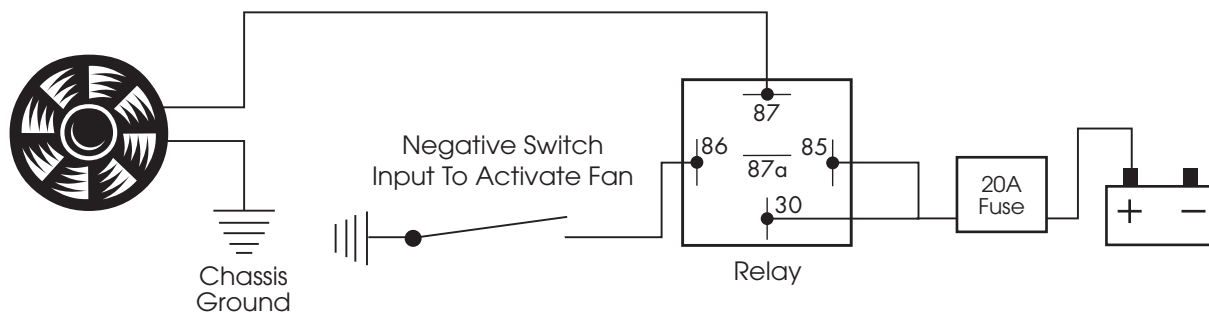
OPTIONAL FAN INSTALLATION

- 1 Position fan on top of cooler.
- 2 Use included mounting kit to secure your cooler to your fan. Stick the fan tie through the front of the fan foot and through the cooler.
- 3 On the back, string a safety pad through the fan tie to reduce vibration.
- 4 Lastly string through a fan tie circular lock and secure with the smaller interlocking lock.
- 5 Secure at all four corners.



Fan Relay Wiring Diagram

All ZIRGO FANS



*Note: for optimal performance use 10 gauge OFC copper wire (KICPW10500RED) & a 40 Amp Relay (KICRA1000)

*Note: Relay & wire not included