

Perma-Cool



Installation Instructions

This guide covers the following:

Oil Filter Mount

Two or Four Port Filter Mount or Dual Oil Filter Mount

IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

Thank you for purchasing our product(s). Install filter nipple into mount; thread short knurl side into casting. Tighten to lock knurl. See illustration **A**. On filter nipple without locking knurl, apply a small amount of threadlocking material such as Loctite® to one end of nipple. Install hose fittings in the filter mount ports. If the fittings are tapered pipe (NPT), seal the threads with Teflon® tape or appropriate sealer. If the fittings are AN/SAE, **DO NOT** use any type of sealer on the threads. **MAXIMUM TORQUE** on the fittings is 28 ft.lbs. (38Nm). **DO NOT OVERTIGHTEN!**

Oil Filter Flow: The hot oil is pumped out of the engine into the filter. The oil passes through the filter media into the centrally located perforated tube. The filtered oil flows up through the tube out and back into the engine. If there is an auxillary oil cooler installed in the circuit the oil flows through the oil cooler reducing its operating temperature and back into the engine.

The dual filter mount filters the hot engine oil twice. The oil is pumped out of the engine into the first oil filter. It passes through the filter media and exits the filter through the perforated tube. The hot engine oil will also go directly to the second filter and be filtered in the same way as the first filter. All filtered engine oil will exit the filter mount and flow back into the engine oil galleys or the auxillary oil cooler.

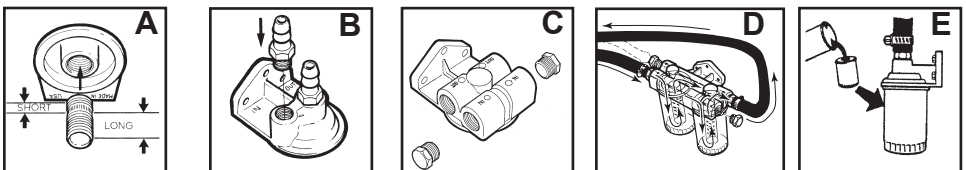
Dual filter mounts have two inlet ports and two outlet ports. It is necessary to install the supplied plugs in one entry port and one exit port for the filter mount to properly filter all engine oil. Pay attention to the arrows located on the top of the ports to ensure proper flow through the filters. See illustration **D**.

Two (2) Port Filter Mount: Install the hosebarb fittings in the filter mount. Pay attention to the arrows or "IN" and "OUT" located on the filter mount to ensure proper flow through the filter. See illustration **B**.

Four (4) Port Filter Mount: Install the hosebarb fittings in the filter mount. Pay attention to the arrows located on the top of the ports to ensure proper flow through the filter. Dual ports offer multiple plumbing options for easy installation. Install plugs in the ports not used. See illustration **C**.

Dual Oil Filter Mount: Install the hosebarb fittings in the filter mount. Pay attention to the arrows located on the top of the ports to ensure proper flow through the filters. Install plugs in the ports not used. See illustration **D**.

Locate a convenient location to mount the oil filter mount. Some suggested locations are on the vehicle frame, fenders, or firewall. Attach the filter mount with sheet metal screws or nuts and bolts, available at any hardware store. Apply a thin film of fresh oil to the new oil filter(s), and install on the filter mount. Tighten by hand 1/4 to 1/2 turn past O-Ring contact with sealing surface. See illustration **E**.



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