



Perma-Cool® Products
 1689 South Parco Avenue • Ontario, CA 91761 USA
 Tel 909.391.3000 • Fax 909.391.3007
 www.perma-cool.com

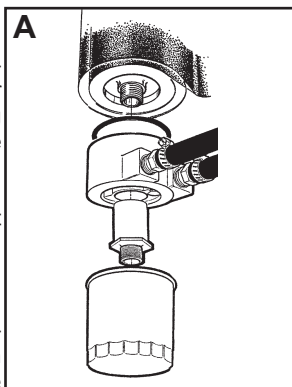
**Installation
 Instructions**
 This guide covers the following:
**Sandwich Adapter
 Systems**

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

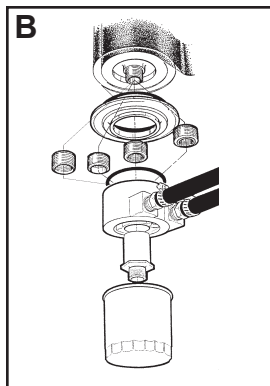
Our sandwich adapter is a full flow unit, and MUST have 1/2" (13mm) I.D. or -8AN MINIMUM oil hoses. Hoses should be rated at 250°F (121°C) operating temperature and 250 psi working pressure for best results.

With the engine cool to the touch, remove the oil filter. Wipe the engine sealing surface and filter nipple clean of any dirt or grease. Install the hose fittings in the engine adapter ports. Seal the threads with Teflon® tape or appropriate sealer. MAXIMUM TORQUE on the fittings is 28 ft. lbs. (38 Nm). DO NOT OVERTIGHTEN!

Standard: See Illustration A. Apply a thin film of fresh oil to the sandwich adapter O-Ring that most closely matches the engine oil filter landing. Install the adapter in place of the old filter, with the O-Ring side of casting against the engine. Screw the sleeve nut on to the engine nipple. Position the ports in the desired direction, then tighten. Torque about 20 ft. lbs. (28 Nm). Apply a thin film of oil to a new oil filter and install. Tighten by hand 1/4 to 1/2 turn past O-Ring contact with sealing surface.



Universal: See Illustration B. One of the four provided adapter bushings may fit the engine filter nipple. The correct bushing will spin on to the filter nipple easily. Remove the correct bushing from engine nipple and install into the sandwich adapter sleeve nut; thread first, knurl last. To determine whether the large adapter plate must be used, position the plate on the engine filter mount and compare O-Ring landings. To install apply a thin film of fresh oil to the engine adapter O-Ring (large adapter plate O-Ring, if required). Screw the sleeve nut on to the engine nipple. Position the ports in the desired direction, then tighten. Torque to about 20 ft. lbs. (28 Nm). Next install a new oil filter, tighten by hand 1/4 to 1/2 turn past O-ring contact with sealing surface. Apply a thin film of new oil to a new Ford style oil filter, such as Fram PH8A or PH43, and install. Tighten by hand 1/4 to 1/2 turn past O-Ring contact with sealing surface.



An O-Ring MUST be used between all adapters and the engine.

Replacement hose, fittings, and additional accessories available.

Visit www.perma-cool.com

U.S. Patent 4,355,688
 U.S. Patent 5,291,969



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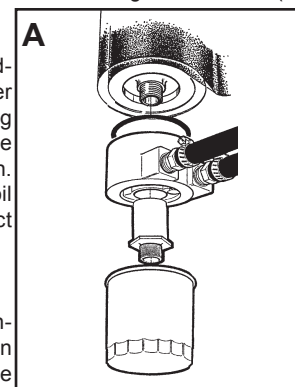
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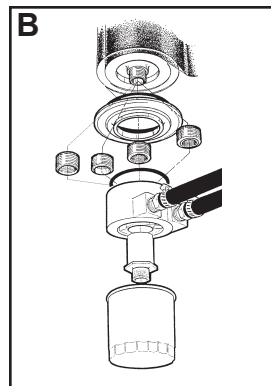
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