



Perma Industries Incorporated
 400 South Rockefeller Avenue • Ontario, CA 91761-8144 USA
 Tel 909.390.1550 • Fax 909.390.1551
 www.perma-cool.com

Installation Instructions

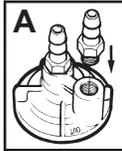
This guide covers the following Item Numbers:
10695 and 10795

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

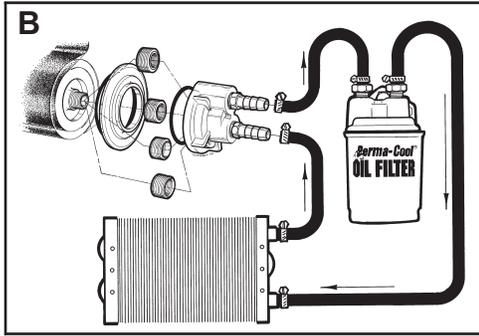
Universal Oil Filter Relocation System

IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

With the engine cold, remove the old oil filter. Clean the sealing surface. Install the two hose fittings in the engine adapter. Seal the threads with Teflon® tape or appropriate sealer. **MAXIMUM** torque on the fittings is 28 ft. lbs. (38 Nm). **DO NOT OVER-TIGHTEN.** (Illustration A).

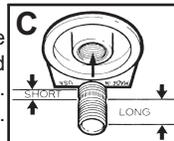


One of the four adapter bushings that have been supplied may fit the engine filter nipple. To determine which bushing is correct, spin each one on to the filter nipple. The correct bushing will spin on to the filter nipple easily. Remove the correct bushing from the filter nipple and install it in the engine adapter (thread first/knurled last). Some adapter bushings are designed with partial internal thread. Tighten securely. (Illustration B).

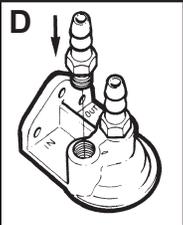


To determine whether the large adapter plate must be used, position the plate on the engine oil filter landing and compare O-ring/gasket landing surfaces. To install, apply a thin film of oil to the engine adapter O-ring (the large adapter plate O-ring, if required). Install the adapter(s) in place of the oil filter. Tighten by hand 1/2 turn past contact with the sealing surface. Note: An O-ring **MUST** be used between all adapters and the engine.

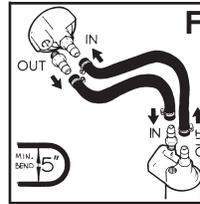
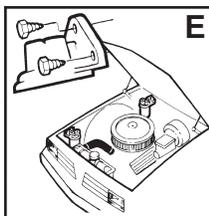
Install the threaded nipple into the bottom of the remote oil filter mount. Insert the shortest end in the mount and tighten securely. Repeat for dual mount, if applicable. (Illustration C). **DO NOT** use Teflon® tape on filter nipple.



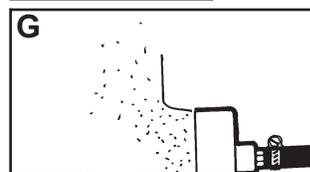
Install the two hose fittings in the filter mount. Use the same procedure as step 2. (Illustration D). **DUAL REMOTE FILTER SYSTEM:** The dual filter mount has two ports for the flow of oil in and out of the filters. Select the most convenient port with the arrow pointed IN toward the center of casting. Install a hose fitting. Install a plug in the other IN port. Select the most convenient port with the arrow pointed OUT from the casting. Install a hose fitting. Install a plug in the other OUT port. Use Teflon® tape, as above (Illustration G).



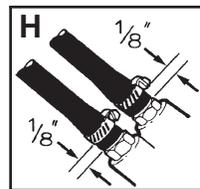
Uncoil the hose to its full length and measure. The maximum distance the mount can be installed is one half the distance of the hose length. Select a location and install the remote oil filter mount. Mark and drill the mounting holes. Attach mount using the fasteners supplied. Consider the following when choosing a location; the combined weight of the mount and full oil filter(s) and a clearance of 1" minimum in all directions around the filter cannister. (Illustration E). Slide two (2) loose hose clamps over the end of the hose. Push the hose over the "OUT" fitting on the



engine adapter. Position and fit the hose to deliver engine oil to the remote oil filter mount "IN" fitting. Keep the hose away from hot surfaces and sharp edges. Do not bend the hose sharper than a five inch radius. Rough cut the hose with at least 1 inch longer than needed. Push hose end over the "IN" fitting on the filter mount. (Illustration F).



Slide two (2) loose hose clamps over the end of the remaining hose. Complete the circuit by adding the remaining hose connecting the "IN" fitting on the engine adapter to the remote oil filter mount "OUT" fitting. (Illustration G).



Position the clamps 1/8" (4mm) from the end of the hose, and tighten. The proper tension is indicated by the hose surface bulging slightly up through the slots in the clamps. The hose should not rip or burst through the slots (Illustration H). **CAUTION:** Avoid hot exhaust pipes, manifolds, or headers. **DO NOT BEND** the hose sharper than a 5 inch radius. Secure hoses with clamps or tie-straps if necessary.

Install a new full flow oil filter(s) on the remote filter mount. All oil filter mounts in these systems utilize a Ford type oil filter. Use the chart below to determine which oil filter to purchase. Lubricate the oil filter gasket with new motor oil and hand turn 1/2 turn after gasket contacts the sealing surface. It is recommended that all oil filter(s) be filled with new oil **BEFORE** installation.

When installation is completed, test as follows **BEFORE DRIVING VEHICLE ON THE STREET:**

- Recheck all fittings, adapters, clamps, and hose for proper tension and safe routing.
 - Set parking brake. Place transmission in "PARK" or "NEUTRAL". Start engine and immediately check oil pressure.
 - Check for leaks at adapters, fittings, hose and clamps. If leaks are observed, **STOP MOTOR IMMEDIATELY!!!**
 - Idle motor for 10 minutes. Continue to check for leaks.
 - Stop engine. Check oil level with dipstick. Add oil if necessary. **DO NOT OVERFILL!**
- Operate vehicle in normal manner for a day or so. **RECHECK** all hose clamps for proper tension. Retighten if necessary.

GENERAL INFORMATION: Check hoses every six months for tears, collapsed or pinched sections. The hose should be replaced every two years. Hoses should be positioned to provide easy drain off during oil changes.

For additional accessories or replacement parts see www.perma-cool.com

Brand Name	Standard Fit	Tight Fit	Note:
PERMA-COOL®	81008	81043	Some vehicles have extra long oil filter nipples. For these models it may be necessary to cut the nipple at about 5/8" from the face of the filter landing. File and remove all chips.
AC®	PF2	PF13	
FRAM®	PH8A	PH43	
LEE®	LF1	LF16	
MOTORCRAFT®	FL1A	FL173A	
NAPA®	1515	1068	
PUROLATOR®	PER1A	PER17	
WIX®	51515	51068	