



INSTALLATION INSTRUCTIONS

HEAT SINK POWER STEERING COOLER KIT

PART # 13349 & 13350

Please read these instructions completely before starting the installation.

KIT CONTENTS

QTY. DESCRIPTION	QTY. DESCRIPTION
1 Heat Sink Cooler - 1/2" NPT	4 Hose Clamps
4ft. 11/32" OEM Spec Hose	4 1/4-20 x 3/4" Bolts
2 Cooler Brackets	4 1/4" Washers
2 1/2" x 3/8" NPT Hose Barb Fittings	4 1/4-20 Nuts
6 10-24 x 5/16" Stainless Button Head Bolts	

TOOLS NEEDED

Standard Screw Driver or 5/16" Nut Driver
 Marker
 Drill & 9/32" Drill Bit
 Thread Sealant Tape

IMPORTANT

This cooler is designed to install on the Low Pressure side of the pump. Do not cut or remove the High Pressure hose.

IMPORTANT: The hose provided in this kit can only be used for Transmissions and Power Steering Applications. Engine Oil and Fuel applications require the purchase of the proper OEM Spec hose.

COOLER LOCATION

This cooler can be mounted anywhere space permits. When selecting the best location for your vehicle, always consider a location that will deliver the maximum airflow to the cooler.

Note: The Cooler core will flow in either direction, there is no specified inlet or outlet port.

COOLER LOCATION

This cooler can be mounted anywhere space permits. When selecting the best location for your vehicle, always consider a location that will deliver the maximum airflow to the cooler.

PRE-ASSEMBLY - COOLER

1. Locate the Aluminum Heat Sink Cooler, two Cooler Brackets and six 10-24 x 5/16" Stainless Button Head Bolts.
2. Using a 1/8" Allen Wrench, assemble the two cooler brackets on both sides of the Aluminum Heat Sink Cooler, making sure the 90° bent tab is facing away from the cooler. (See Fig. 1) Leave the Button Head Bolts loose.

MOUNTING

1. Holding the cooler in place use a marker to identify the four mounting hole locations.
2. Using a drill and 9/32" drill bit, drill the four mounting holes in the desired location.

HOSE BARB INSTALLATION

1. Now Locate the two 1/2" NPT x 3/8" Male Adapter fittings (See Fig. 2)
2. Using Thread Sealant tape or suitable sealant, apply to the NPT threads on the fittings.
3. Install both fittings onto the cooler. Making sure to not over tighten fittings. Doing so can damage the cooler.



Fig. 1

CLOCK HEAT SINK COOLER

1. In the Pre-Assembly Cooler instruction line 2, you were told to leave the Button Head Bolts loose. The reason for this is because you can now clock the body of the Heat Sink Cooler so the fittings work best for the install. (See Fig. 3). Tighten the Button Head Bolts when you have found the best rotation of the fittings on the cooler.

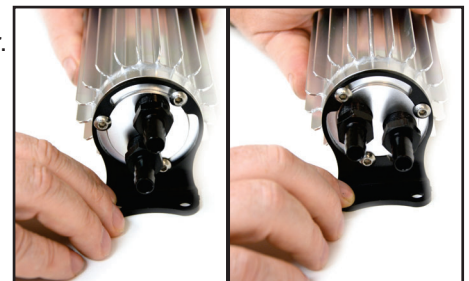


Fig. 2

ROUTING HOSES

This cooler is designed to install on the Low Pressure side of the power steering pump. (See Diagram #3)

1. Identify the Low Pressure hose coming from the power steering pump. The Low Pressure hose is usually smaller and is secured by a hose/band clamp. The High Pressure hose is usually larger and has swaged fittings.
2. Disconnect the Low Pressure hose from the power steering pump.
3. Carefully route the looped hose now attached to the cooler toward the power steering pump.

Note: The Oil Cooler will flow in either direction, there is no specified inlet or outlet port.

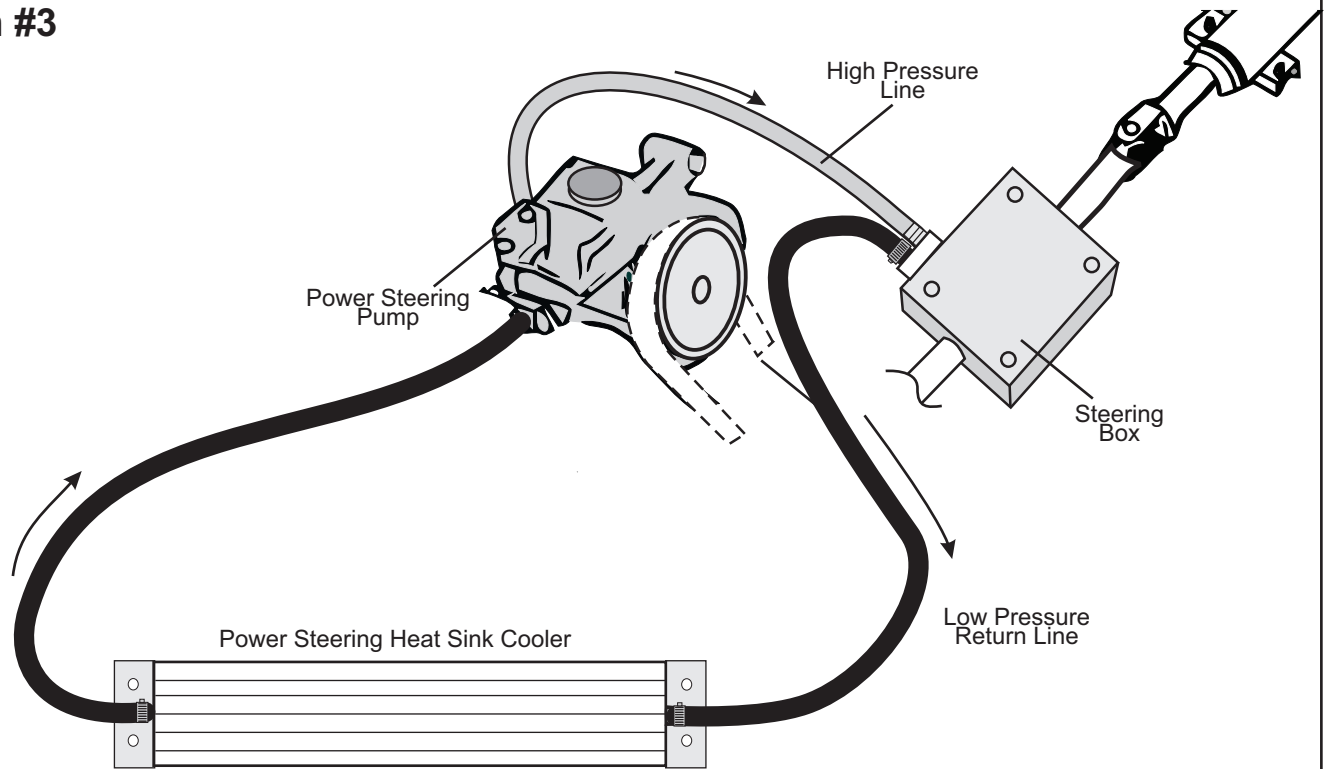
4. Using the Hose Clamp supplied, cut hose to length and attach hose coming from the Oil Cooler to the fitting on the power steering pump.
5. Route remaining hose toward the steering box.
6. Using the Hose Clamp supplied, cut hose to length and attach remaining hose coming from the Oil Cooler to the fitting on the steering box.

Warning: When routing hoses, be sure to keep all hoses away from sharp edges, moving parts and hot engine components. Hoses should be routed carefully and should not be bent in less than a 3" radius.

Important: A kinked hose will restrict flow and could cause pump failure. The vehicle has completely warmed up, check all connections for leaks.

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Diagram #3



SYSTEM CHECK

1. Heat Sink Coolers require added fluid to your vehicles system. Add fluid after the installation, before starting the vehicle.
2. Always check fluid levels on a flat surface.
3. After the installation and the vehicle has completely warmed up, check all connections for leaks.

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Warning: Installation of accessories should only be undertaken by those with mechanical knowledge and are familiar with working on vehicles. Always use eye protection (goggles, safety glasses or shield). Park the vehicle in a well lit area, on level ground and apply the parking brake. Only work on a cold vehicle that has been sitting overnight, failure to do so will result in severe burns and injury. Before starting the vehicle, make sure no tools or any other items are left under hood that could interfere with or be drawn into moving parts of the engine. Failure to follow instructions can lead to severe damage and personal injury.