



INSTALLATION INSTRUCTIONS FRAME RAIL COOLER PART # 13220, 13222, 13224

Please read these instructions completely before beginning installation.

KIT CONTENTS

QTY.	DESCRIPTION
1	Frame Rail Cooler-11/32" Inlets
4ft	11/32" OEM Spec Hose
1	Insta-dapt Radiator Adapter
4	Hose Clamps
2	1/4-20 x 1" Hex Bolts
2	1/4-20 Lock Nuts
4	1/4" Flat Washers

COOLER LOCATION

This transmission cooler was designed to mount on the vehicles frame rail. When selecting the best location for your vehicle, always consider a location that will deliver the maximum airflow to the cooler.

MOUNTING

1. Holding the cooler in place use a marker to identify the two mounting locations.
2. Using a drill and 9/32" drill bit, drill the two mounting holes in the frame.
3. Using the Bolts, Washers & Lock Nuts provided, install cooler onto the frame.

PLUMBING

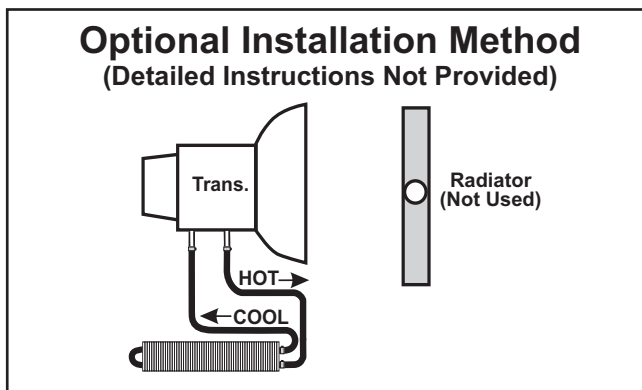
Locate Transmission Lines

1. Find the two transmission oil lines that run from the transmission to the radiator, usually steel lines connected to the bottom radiator tank or on a cross-flow radiator the passenger side tank.
2. We recommend using the cooler in series with the factory radiator cooler. To do this you need to determine the return line to the transmission. Warm up vehicle & feel the trans lines, the colder of the two lines will be the return line.

Hose Connections

1. Disconnect the return transmission line from the radiator.
2. Take the Insta-dapt Radiator Adapter provided and check to see if the threads match. (some 1996 and later vehicles have larger transmission lines and require the purchase of alternate radiator fittings). The Insta-dapt adapter has both a 5/16 male and female thread. If the threads are correct, screw the adapter onto the radiator. See Diagram #2
3. Using the hose and hose clamps provided, attach a hose to either of the 11/32" Inlets on the Frame Rail Cooler.
4. Attach the other end of the hose to the Insta-dapt Radiator Adapter. See Diagram #1
5. Attach a second hose to the return transmission line and then to the second fitting on the Frame Rail Cooler. See Diagram #1

Optional Installation Method (Detailed Instructions Not Provided)



Secondary Cooling (Preferred Method)

Diagram #1

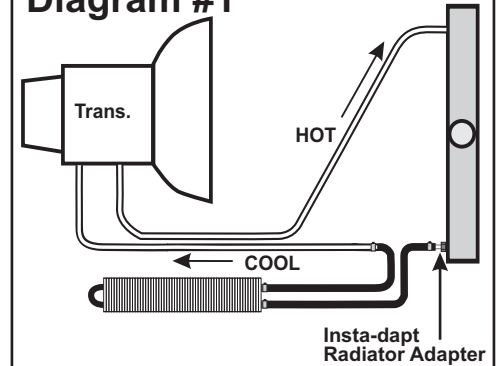
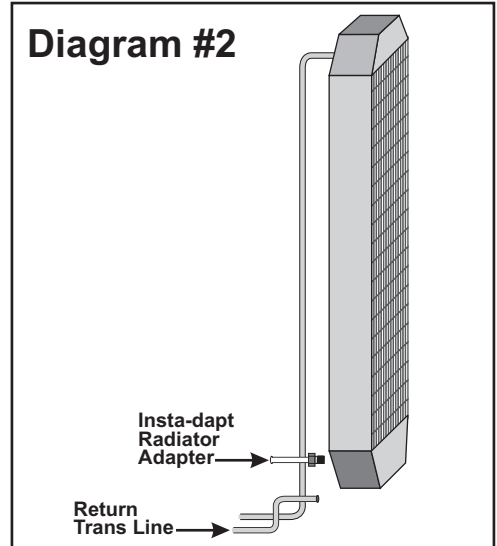


Diagram #2



SYSTEM CHECK

1. Check the transmission fluid and add fluid as needed. Start the engine and check for and secure any leaks. Verify that the hoses do not interfere with any moving parts.
2. Re-check the transmission fluid and add fluid as needed after transmission is at operating temperature.

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.