



# INSTALLATION INSTRUCTIONS

## AUTOMATIC TRANSMISSION FILTER KIT W/ GAUGE

### PART # 13091

Please read these instructions completely before starting the installation.

#### KIT CONTENTS

QTY.	DESCRIPTION	QTY.	DESCRIPTION
1	Filter Mount	1	Insta-dapt Adapter
1	Oil Filter	4	Hose Clamp
1	Temperature Gauge	1	3/4-16 Filter Nipple
1	Gauge mounting Bezel	2	10-32 Mounting Nuts & Washers
1	Gauge mounting Bracket	1	10-32 Temp Sender Nut & Washer
3	#14 Sheet Metal Screws	3	6-32 Mounting Nuts & Washers
4ft	11/32" OEM Spec Hose	1	Temp Sender
2	3/8" NPT x 3/8" Barb Fittings		

#### TOOLS NEEDED

Standard Screw Driver or 5/16" Nut Driver	Center Punch
6mm Nut Driver	Drill
8mm Nut Driver	3/16" Drill Bit
5/8" Open End Wrench	Teflon Tape
3/4" Open End Wrench	Marker
12mm Open End Wrench	
Razor Knife	

## INSTALLATION

### Filter Mount

- Choose a convenient location for the Filter Mount, making sure there is enough space for future servicing of the oil filter.  
Suggested Locations: Firewall, Radiator Support, Fender well
- Take the 3/4-16 Filter Nipple supplied and install onto the Filter Mount, making sure the shorter end of threads is towards the Filter Mount. (See Diagram #1)
- Using the filter mount as a template, mark and drill three 3/16" holes.
- Using the #14 Sheet Metal Screws provided, install the Filter Mount onto the vehicle.
- Identify the 3/8" NPT x 3/8" Barb Fittings, using Teflon Tape or suitable Sealant install the two 3/8" NPT x 3/8" Barb Fittings onto the Filter Mount.
- Apply a light coat of oil onto the o-ring of the oil filter and install on the filter mount.

### Locate Transmission Lines

- 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.
- Determine the supply line to the transmission. Warm up vehicle & feel the trans lines, the warmer of the two lines will be the supply line.

### Hose Connections

- Disconnect the supply transmission cooler line from the radiator.
  - Take the supplied Insta-dapt Adapter fitting and install onto radiator using the appropriate Male or Female end. (See Diagram #2)
- Note:** The Insta-dapt fitting has a 1/2"-20 Thread and fits most vehicles with 5/16" transmission cooler lines. For vehicles that are not compatible with the Insta-dapt Adapter, please reference the Radiator Adapter Fitting Guide or go to [www.derales.com](http://www.derales.com) for alternative radiator fitting options.
- Using the supplied Hose and Hose Clamps, Connect both ends of the Hose to the 3/8" NPT x 3/8" Barb Fittings now installed on the Filter Mount forming a loop.
  - Carefully route the looped Hose to the desired locations.
  - Cut and attach the Hose coming from the IN on the Filter Mount to the supply line coming from the Transmission. (See Diagram #3)
  - Cut and attach the Hose coming from the OUT on the Filter Mount to the Insta-dapt Adapter now attached to the Radiator. (See Diagram #3)

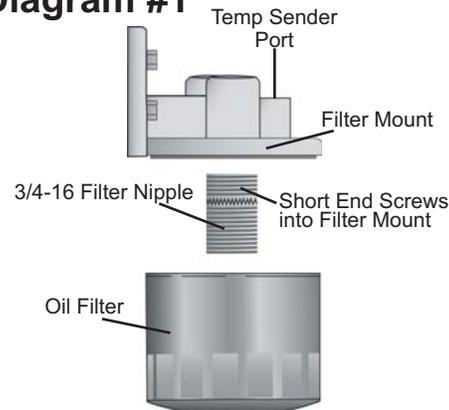
**Warning:** When routing hoses, be sure to keep all hoses away from sharp edges, moving parts and hot engine components. Hoses should be routed carefully and should not be bent in less than a 3" radius.

**Important:** A kinked hose will restrict flow and could cause transmission failure.

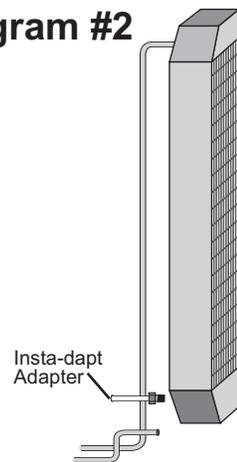
**Note:** Filter element should be replaced every 25,000 miles or whenever the transmission is serviced. Order Derales replacement filter element part #13092.

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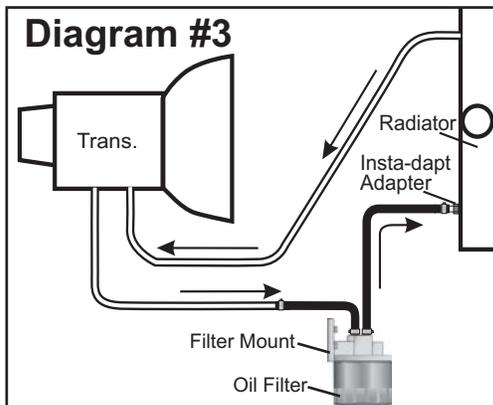
### Diagram #1



### Diagram #2



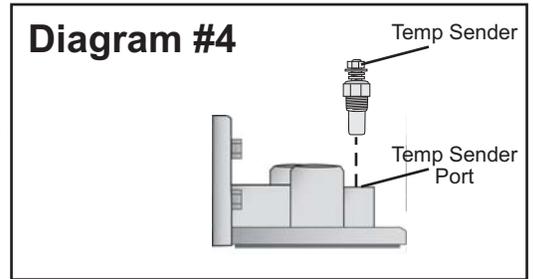
### Diagram #3



## TEMPERATURE SENDER INSTALLATION

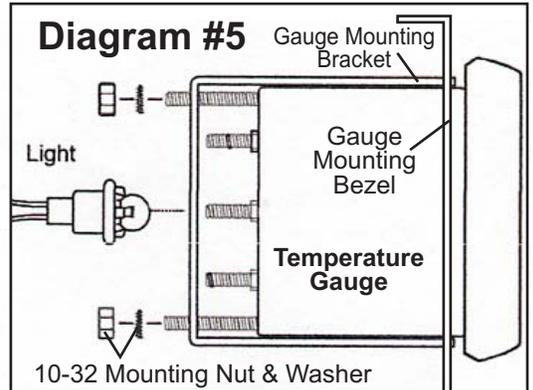
### **Filter Mount Port Installation** (See Diagram #4)

1. Locate the port on the supplied Filter Mount.
2. Using Teflon Tape or suitable sealant install the Temp Sender into the port on the Filter Mount.



## GAUGE INSTALLATION

1. Identify the best location for mounting the Temperature Gauge.
2. Using the Gauge Mounting Bezel as a template, mark, drill and mount in the proper location. (See Diagram #5)
3. Install the Temperature Gauge into the Gauge Mounting Bezel. Using the Gauge Mounting Bracket and 10-32 Mounting Nuts and Washers tighten the Temperature Gauge into place.

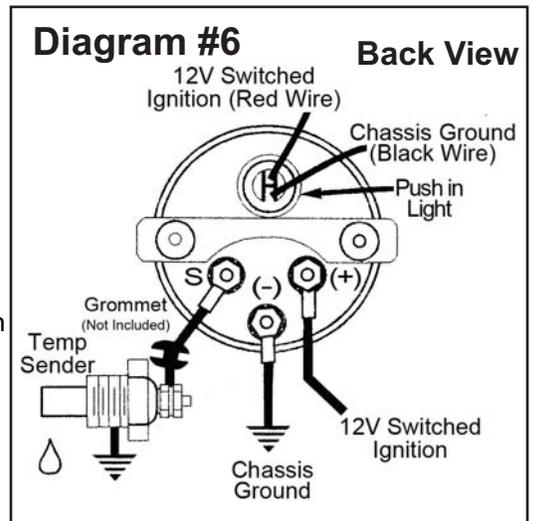


## WIRING

(See Diagram #6)

1. Connect an 18 gauge wire to the Temp Sender now mounted on the vehicle.
2. Using a grommet (Not supplied) route the wire through the firewall and into the passenger compartment where the Temperature Gauge is mounted.
3. Attach the Temp Sender wire to the terminal marked (S) on the gauge.
4. Attach an 18 gauge wire to the terminal marked (-) on the gauge, then attach the other end of the wire with the black wire coming from the gauge light to a suitable chassis ground.
5. Attach an 18 gauge wire to the terminal marked (+) on the gauge, then attach the other end of the wire with the red wire coming from the gauge light to a 12V Switched Ignition source.

**Note:** Red Gauge Light wire can be connected to dash lights if desired.



## SYSTEM CHECK

1. Start the vehicle and quickly check all connections for leaks.
2. With the vehicle in neutral, check the transmission fluid level.
3. Add fluid as needed.
4. Drive vehicle making sure transmission is warm, then recheck fluid level.

**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.