

## A/C Clutch Service Kit

# 27150

**OEM<sup>®</sup>**  
Tools for Professionals

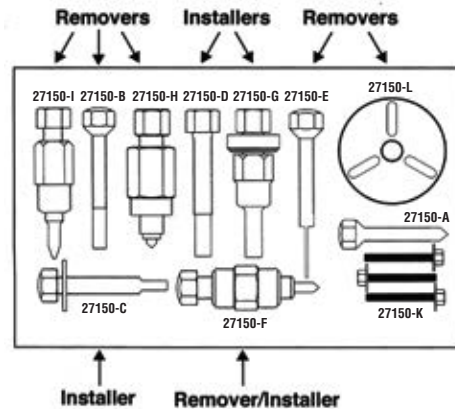
### Deluxe A/C Clutch Hub Puller & Installer

**Removing Procedure:**

1. Remove shaft, nut, or retaining ring.
2. Thread removing tool onto hub. Position center screw against the end of compressor shaft.
3. Hold body of remover with wrench and turn center screw into remover body to remove clutch hub assembly.

**Installing Procedure:**

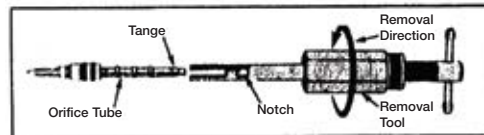
1. Ensure frictional surface of clutch plate and rotor is clean.
2. Align shaft key with shaft keyway and place clutch plate and hub assembly on compressor shaft. (Do not drive or pound on clutch hub or shaft, as this may cause internal damage to compressor.)



3. Attach installing tool onto compressor shaft. (Body of installing tool should be backed off sufficiently to allow center screw to be threaded fully onto end of compressor shaft.)
4. Hold center screw with wrench and tighten hex portion of installer to press hub onto shaft.
5. Tighten body several turns until the air gap between the friction surfaces is .020 - .030 inch.
6. Remove installer and check for proper positioning of shaft key.
7. Install shaft nut or retaining ring. (Refer to manufacturer specifications for correct torque)
8. Spin pulley by hand to check for free operation.

**Orifice Tube Remover/Installer Set**

1. **Orifice Tube Remover** - recover any refrigerant from system.
2. Disconnect refrigerant line at the evaporator inlet and pour a small amount of refrigeration oil into the inlet of lubrication.
3. Screw the brass extension onto the Arbor.
4. Screw the correct end (GM/Ford) onto the extension.
5. Back off the outer nut portion of the orifice tube remover/installer to the handle and insert the tip of the tool into the evaporator inlet.
6. While exerting a slight downward pressure on the tool, rotate its handle until the tool drops down and locks onto the tangs of the orifice tube (see sketch below).
7. Tighten the outer nut portion of the tool against the end of the evaporator inlet to remove the orifice tube.



**Orifice Tube Installation**

1. Pour a small amount of refrigerant oil into the evaporator inlet. Also, lubricate the o-rings on the new orifice tube.
2. Attach the new orifice tube to the orifice tube remover/installer, insert the assembly into the evaporator inlet, and push downward until the orifice tube is stopped by the dimples in the evaporator inlet line.
3. Turn the tool handle 1/8 turn to release it, withdraw it from the inlet and reinstall the refrigerant line.

**Broken Orifice Tube Removal**

1. If a portion of the orifice tube has broken off, use the Auger point shaft to remove the assembly that remains in the evaporator inlet.
2. Thread the screw tip portion of the tool into the metal tube in the center of the assembly and pull outward with a clockwise twisting motion.
3. If this fails, a special repair kit is available for some systems.

**WARNING!**

Puller parts can break under stress!  
Wear safety goggles (user and bystanders)!  
Do not heat pullers!  
Do not over stress pullers!  
Be aware of hand positions.  
Read and follow instructions.  
Broken parts can cause injury!  
Avoid contact with refrigerant!

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