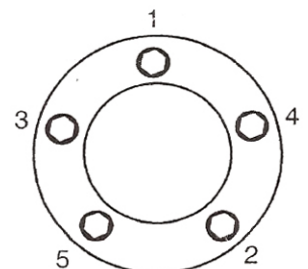


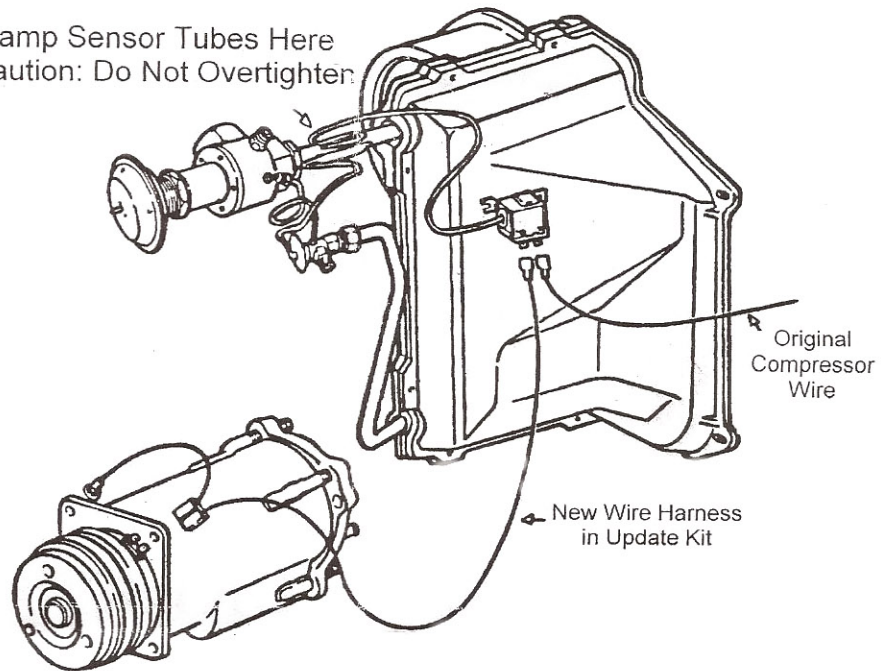
INSTRUCTIONS FOR IMPROVED SUCTION THROTTLING VALVE UPDATE KIT

- 1) Evacuate and Recycle existing refrigerant from system.
- 2) Removal of the STV valve from the vehicle is recommended.
- 3) Loosen outer diaphragm locking nut on housing.
- 4) Carefully unscrew outer diaphragm from housing. **CAUTION: SPRING UNDER TENSION.**
- 5) Remove screws from outer diaphragm housing and separate valve halves.
- 6) Discard spring, inner diaphragm and piston.
- 7) Apply a thin film of **Aviation FORM-A-GASKET Sealant Liquid (Permatex Part# 80019)** on both sides of gasket. Allow to air dry a few minutes before assembling. **CAUTION - Do Not Use RTV or Silicone Gasket Sealer - Use of incorrect gasket sealer will Void Warranty.**
- 8) Insert (A) Gasket, (B) Reinforcement Plate as shown.
- 9) Screw outer diaphragm locking nut towards base leaving approximately 1/8 inch of threads visible. (this will let plunger clear update plate)
- 10) Using valve core tool, remove valve core from (male insert o-ring) oil bleed line fitting only.
CAUTION: DO NOT REMOVE VALVE CORE FROM THE MALE FLARE CHARGING PORT
- 11) Reverse Steps 5 through 3 to reassemble valve, using the new allen head screws supplied.
- 12) Reinstall valve on vehicle and complete wiring modification on page 2.

Allen Head Screw
Tightening Sequence



Clamp Sensor Tubes Here
Caution: Do Not Overtighten



WIRING MODIFICATION

- A) For vacuum operated valve insert vacuum restrictor (ball bearing) into vacuum line leading to valve. (disregard this step for Cable or motor operated STV valves).
- B) Using Clamp, secure thermostat sensor tube onto suction outlet tube of the evaporator near the temperature sensing bulb of the expansion valve.
(SURFACE MUST BE CLEAN FOR GOOD CONTACT)
- C) Wrap thermostat sensor tube at evaporator outlet with insulation tape provided.
- D) Mount thermostat to evaporator case using screws provided.
(BE SURE NOT TO PUNCTURE EVAPORATOR CORE)
- E) Connect Original Compressor Clutch wire to the thermostat using electrical connector provided.
- F)C Connect the new clutch wire provided from the remaining terminal on thermostat to the compressor clutch coil.
- G) Have system evacuated and recharged by a qualified A/C technician.