

## Fitting Instructions – CD6687 Suction Throttle Valve Kit

1. Evacuate & 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 & separate valve halves
6. Discard spring, inner diaphragm & piston
7. Insert Gasket & Reinforcement plate as shown
8. Screw outer diaphragm locking nut towards base leaving approximately 1/8 inch of threads visible (this will let plunger clear update plate)
9. 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
10. Reverse steps 5 through 3 to reassemble valve, using the new allen head screws supplied.

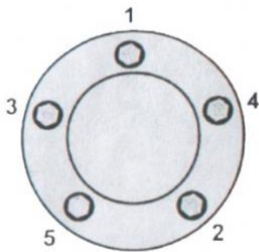


Figure 1 - Allen Head Screw  
Tightening Sequence

11. Reinstall valve on vehicle & complete wiring modification on page 2.

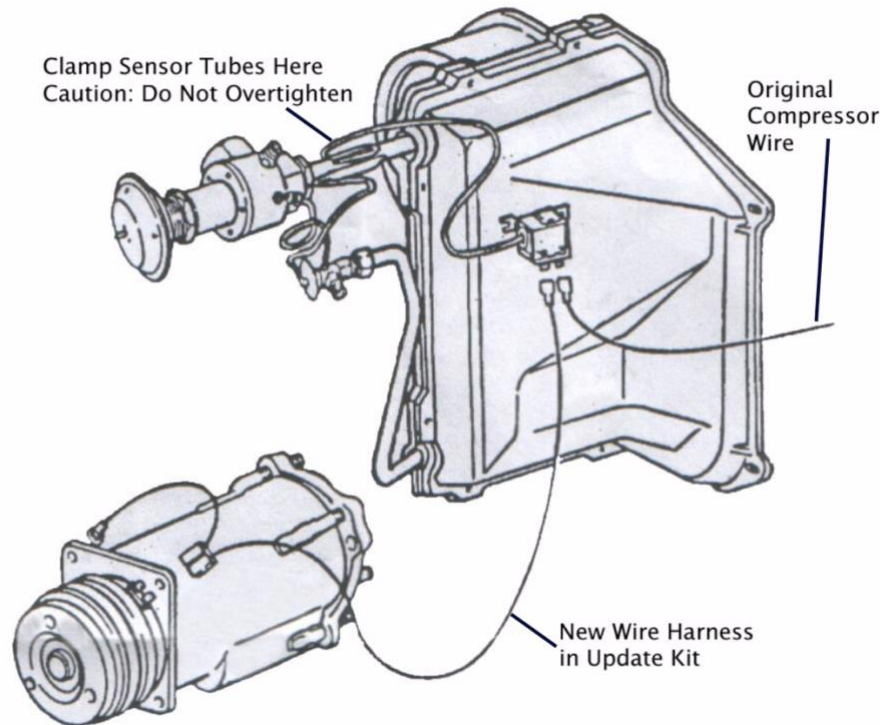


Figure 2 - Wiring Modification

12. 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).
13. 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.
14. Wrap thermostat sensor tube at evaporator outlet with insulation tape provided.
15. Mount thermostat to evaporator case using screws provided. Be sure not to puncture evaporator core.
16. Connect original compressor clutch wire to the thermostat using electrical connector provided.
17. Connect the new clutch wire provided from the remaining terminal on thermostat to the compressor clutch coil.
18. Have system evacuated & recharged by a qualified A/C technician.