

DOC'S BLOCKS
AUTOMOTIVE AIR CONDITIONING REPAIR

Question:

Is there more than one reason to read superheat?

Answer:

Yes! The method of servicing can be done by reading pipe temperatures entering and leaving the evaporator. This will indicate when the evaporator is full of refrigerant. This method is commonly used, although not limited to, servicing the orifice tube system.

The second reason superheat temperature is read is to find what the TXV setting is. Expansion valves are adjusted to control the flow of refrigerant so additional heat can be absorbed by the refrigerant. These readings are taken the same way as just reading superheat. The difference is it for adjusting the expansion valve or adding refrigerant to the system.

See page; 23

There is a hex head screw in the outlet side of the L type TXV that is for a superheat adjustment. If using a valve that is for R-134a on a R-12 system, a superheat adjustment will be necessary. Turn the screw one full turn clockwise before installing the valve. If the valve is for R-12 and is being used in a R134a system, there is no adjustment required.

On the block style valve, there is a cap screw on the bottom end of the valve. If the valve is for a R134a system, an R-12 valve requires no adjustment. If the valve is a R-134a valve to be used on a R-12 system, turn the cap screw one turn clockwise before installing.