ABC COMPANIES
Exclusive U.S. VANHOOL Distributor

TECH TIPS
#1403

COACH MODEL :	C 2045, T2100, T 2145, Model Year 2006 to Present
DATE :	January 1, 2014
SUBJECT :	Interior Temperature Sensor Replacement

Replacement of the interior temperature sensor with 4 wires can be confusing since there are two red wires and two black wires. The red and black wires on the new sensor with the + & - stickers are the power and ground wires for the fan.

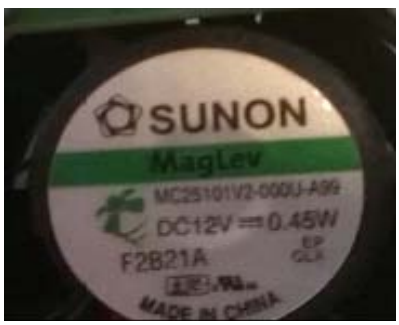




The red and black wires associated with the fan connect to the purple and brown wires from the coach. Red (+) to purple and black (-) to brown.

The white and brown wires wrapped in a gray sheath, originating from the coach, are signal wires for the temperature sensor and shall be connected to the red and black wires from the sensor without decals, red to white and black to brown.
NOTE: The wires without the "+" and "-" decals attached are associated with the temperature sensor data signal.
A sensor without "+" and "-" decals requires the following action:
Measure the resistance of one set of wires (each set are fused together at the jacketing, one red, one black). Refer to the maintenance manual temperature charts located in the climate control section. Review the chart of temperatures and corresponding resistances i.e. 4700 ohms at 77 degrees Fahrenheit. The set of wires associated with the fan will have a resistance of approximately 170K ohms.





The motor associated with the fan is rated nominally at DC12V but is compatible with the 24V system utilized on Van Hool coaches.



Harness shown for interior temperature sensor after removing reading light