



TECHNICAL SERVICE BULLETIN



FORD FG A/C COMPRESSOR NOT ENGAGING (not cold)					TSB #:	78
					Date:	07/06/2013
Initial Once Read:						

VEHICLE:	Ford BA, BF, FG and Territory.
CUSTOMER COMPLAINT:	A/C compressor not engaging. Customer complaint may be "A/C not cold". The fresh / recirculation icon may also be "flashing".
TESTING or INSPECTION:	For testing, use a dedicated HVAC scan tool (such as ADAIR Pt No. TUNI218 refer TSB 46 & TSB 51) and an accurate digital multimeter. A number of Diagnostic Trouble Codes (DTC) will be set owing to the loss of voltage and communications. The fresh / recirculation icon may also be "flashing" if the communications with other modules are lost. After repairing the root cause of the issue, all DTC's must be removed with the scan tool.
RESULT:	A/C Compressor not engaging as the HIM is in "default mode". Default = Compressor will not engage; blower fan will not operate; and modes directions cannot be selected.
CAUSE or REASON:	At a battery voltage below 9V the HIM goes into default mode. This situation could also occur during engine cranking when the battery is under load. Once the DTC U1900 (no communication due to low battery voltage) has been set the HIM stays in default mode until the DTC's are removed.
SUMMARY:	Recharge the battery and carry out load test or replace the battery if suspect. Carry out an alternator output test to see if the alternator is charging correctly up to a maximum of 16 volts. Note: If the battery voltage is above 16 volts the HIM will also go into default mode. After rectifying the battery, carry out a HIM re-configuration using the scan tool.

PHOTOGRAPH OR DRAWING:

"B" 2 Pin Connector

HVAC (HIM) Module

"A" 12 Pin Main Connector (shown from the Wire Side of the Connector)

Pin Number	Circuit Designation/Description	Normal Condition/Measurement
1	Circuit (B-O) + Battery Voltage	Battery Voltage (12V ~ 14V) with engine not running.
2	Circuit (R-B) + Ignition Voltage	Battery Voltage (12V ~ 14V) while engine running.
14	Circuit (B) Power Ground	Resistance (T14) to vehicle body electrical ground 0 ohms approx. Ground point located at passenger side A pillar.