

Compressor label information: Ford AM64-19D623-AB

The following canbus information was captured from the compressor. The message sent is from node ID 0x439. Canbus baud rate is 500 kbps.

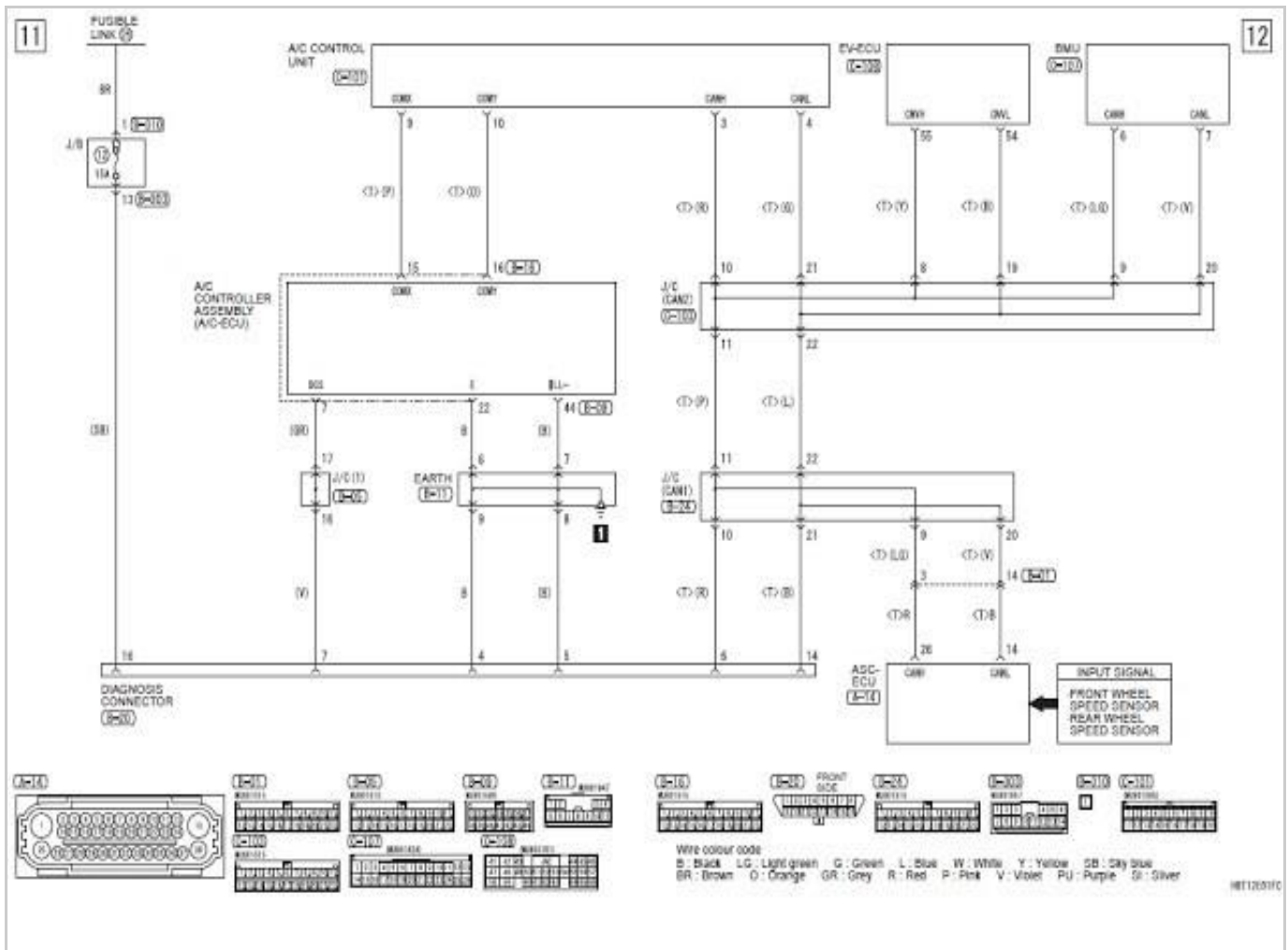
The AC compressor sent the following messages:

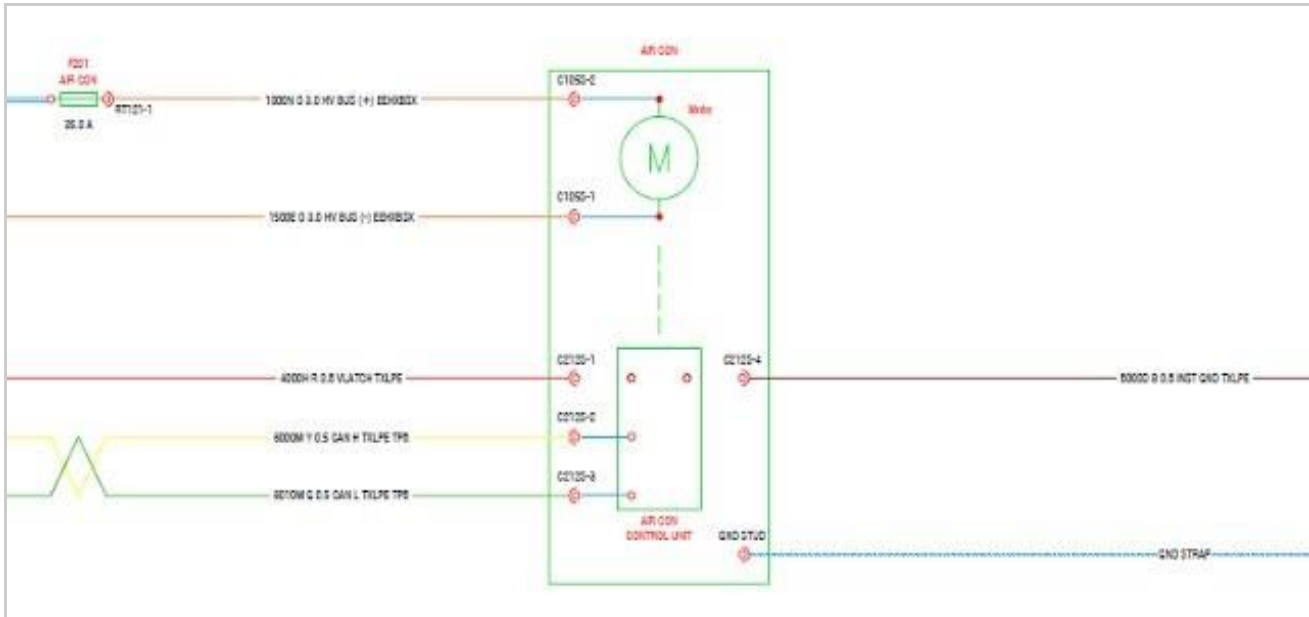
439 0300000000000000 when off

439 0000000000000000 when on

Below are the schematics and a few photos. The PCBs are all immersed in a gelatinous sealant. This is to increase insulation between high voltage points, and protect the HV circuits from humidity and moisture.

From the photos it can be seen the HV positive is Orange with a white stripe. HV negative is Orange with a Black stripe.





AZD Schematic

(1) Electric driven compressor

Table 2.1 Electric driven compressor spec.

<i>L * W * H</i>	291 * 162 * 157 (mm)
<i>Mass</i>	10.2kg (with Bracket)
<i>Compressor type</i>	Scroll with rare earth metal motor
<i>Displacement</i>	30 cc/rev.
<i>Inverter</i>	Integrated, suction ref. cooling
<i>Max. rev.</i>	6000 rpm
<i>High Voltage range</i>	DC 220 ~ 400 V
<i>Low Voltage range</i>	DC 8 ~ 16 V
<i>Max. power</i>	4,5 kW
<i>Max. input current</i>	20.5 A (@DC 220V)
<i>Refrigerant</i>	HFC-134a
<i>Ref. Lubricant</i>	POE oil

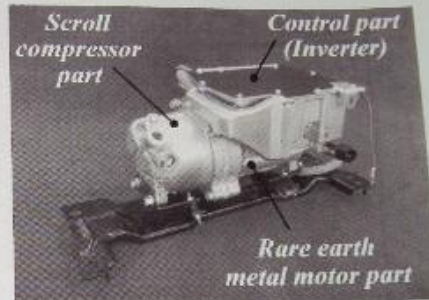


Fig. 2.3 Electric driven compressor

Oil separator is integrated due to improvement of both ref cycle capacity and efficiency.

