

FORD 5R110W TRANS RANGE SENSOR/ SPEED SENSOR FAULTS OR NO START

COMPLAINT: Ford Vehicles equipped with the 5R110W transmission, may exhibit a condition of numerous Diagnostic trouble codes set for the Transmission Range Sensor P0706,P708, P1705 or Speed sensor faults including, P0715 up to P0722, and or possibly a No Start condition.

CAUSE: The cause may be a shorted Electronic Fan Clutch speed sensor, as shown in Figure 1, drawing down the Reference Voltage to the Transmission Range Sensor and the Turbine and Output sensors which are in-directly connected thru the PCM. This may cause these sensors to provide in-accurate information to the PCM, and of course a No Start situation if the Trans Range Sensor were not operating. Refer to Figure 2 for a connector identification for the PCM Connector "C" which is the connector that the Electronic Fan Clutch speed sensor is wired to, also shown in the partial schematic in Figure 3 . Terminal 46 is the Reference Voltage to the Speed Sensor which is housed inside of the Fan Clutch. Refer to Figure 5 and note that terminal 1 of the PCM connector "B" is the Reference Voltage for the Trans Range Sensor, Turbine, Intermediate and Output speed sensors, also shown in the partial schematic in Figure 6. These Circuits are connected internally in the PCM and if there is a short, it can affect the reference voltage to all.

CORRECTION: To correct this condition, locate the connector for the Electronic Fan Clutch, as shown in Figure 4 which is on the drivers side of the fan shroud, and simply dis-connect it. Clear all DTC's and re-drive the vehicle to verify if the codes reset, and or to see if the vehicle starts. If all is well, replace as necessary.

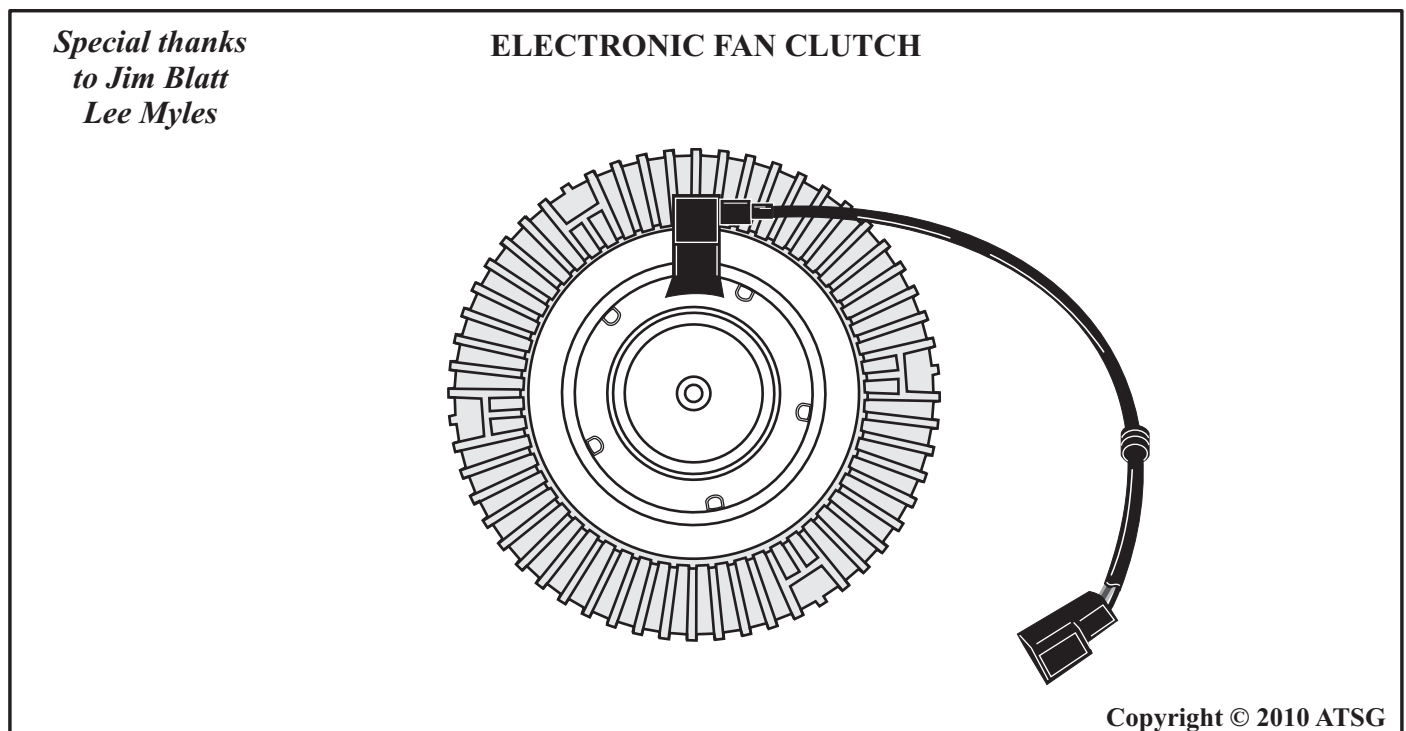


Figure 1