

ECM / BCM Remarry Procedure



The purpose of this bulletin is to inform automotive personnel of the procedure to remarry (electronically reconnect) the Workhorse ECM and BCM (Gateway Module) on 2008 and later Workhorse vehicles in order to restore communication between the modules in the event of an ECM or BCM replacement. Until the modules are electronically connected, the vehicle may crank but not start and give a false impression of ECM or BCM component failure.

This procedure can also be used for isolated occasions where a vehicle may not start while broadcasting a “BCM COMM FAILURE” message in instrument cluster LCD.

Process:

Using the actual ignition keyed switch, cycle the key ON for 10 minutes, then cycle the key OFF for 5 seconds. Repeat this step 3 times. The entire remarrying procedure will take approximately 30 minutes and 15 seconds.

If the “BCM COMM FAILURE” message persists, reference the EMI situations listed below from the Workhorse Service Manual for a possible cause of an interference situation with the BCM and nearby components.

Electromagnetic Interference (EMI) and Electrical Noise

Some electrical components/circuits are sensitive to electromagnetic interference (EMI) or other types of electrical noise. Inspect for the following conditions:

- A misrouted harness that is too close to high voltage/high current devices such as secondary ignition components, motors, generator etc. – These components may induce electrical noise on a circuit that could interfere with normal circuit operation.
- Electrical system interference caused by a malfunctioning relay, or a control module driven solenoid or switch – These conditions can cause a sharp electrical surge. Normally, the condition will occur when the malfunctioning component is operating.
- Improper installation of add on accessories such as lights, electric motors, remote starters, alarm systems – These accessories may lead to interference while in use, but do not fail when the accessories are not in use.
- The generator may be allowing AC noise into the electrical system.