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Technical Service Bulletin – 55

PCM ASLEEP Warning Banner on C187 Display

Purpose: Correction for intermittent PCM ASLEEP warning banner.

Action: PCM terminal replacement for effected vehicles.

Under certain conditions an alarm banner may be present on the C187 display stating “PCM ASLEEP” (Figure A).

There are situations where this banners is warning of a legitimate fault, and others where the PCM (Powertrain Control Module) has gone into sleep mode. *See Table 1 for more information.*

Figure A

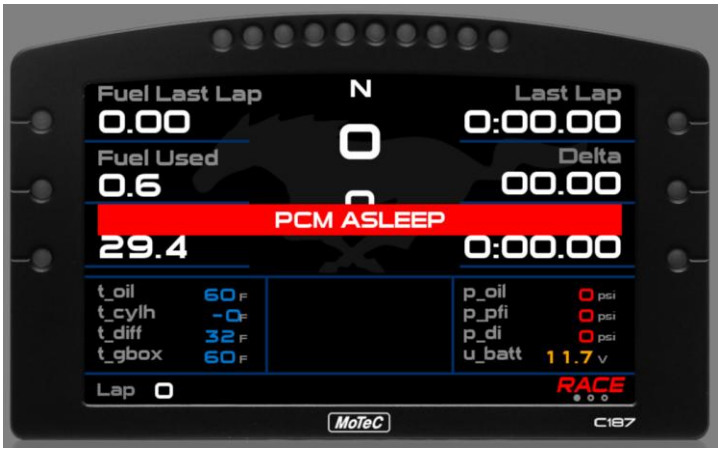


Table 1

Switch Position	Condition
Both Master & Ignition ON (Engine OFF)	PCM warning banner will show after continuous 7 minutes of switches left ON with engine OFF. After 7 minutes the banner will cycle on/off every minute until the vehicle is powered off. ***The warning banners showing under this condition is normal.***
Both Master & Ignition ON (Engine ON)	Warning banner should ***not*** be present with the vehicle running. ***If banner shows while the vehicle is running there is a legitimate fault that will require further diagnosis.***

For a legitimate PCM communication or power/ground fault refer to the vehicle electrical schematic document for further diagnosis.

NOTE: *On limited occasions there have been spread terminals at the PCM CAN and/or relay control terminals at the PCM which have caused the PCM ASLEEP banner to display on the C187.* ****Only use the information below if your diagnosis leads you to the circuits outlined. ****

The document [*Mustang Dark Horse R_PCM Service Pigtail Procedure found in the Owner Information area on the Competitor Information Page*] details how to remove and replace terminals from the PCM connector bodies with parts available on the parts truck.

The PCM CAN and relay control circuits are contained within C175B (Connector labeled FP-14S411-VA in the *Mustang Dark Horse R_PCM Service Pigtail Procedure* document). This will be the connector body at the most outside connector position (drivers right) with the PCM mounted in the vehicle (see Figure C).

PCM CAN circuits can be found at C175B cavities 33 & 48 (circled with RED in Figure B). PCM relay control can be found at cavity 74 (circled with BLUE in Figure B).

Figure B

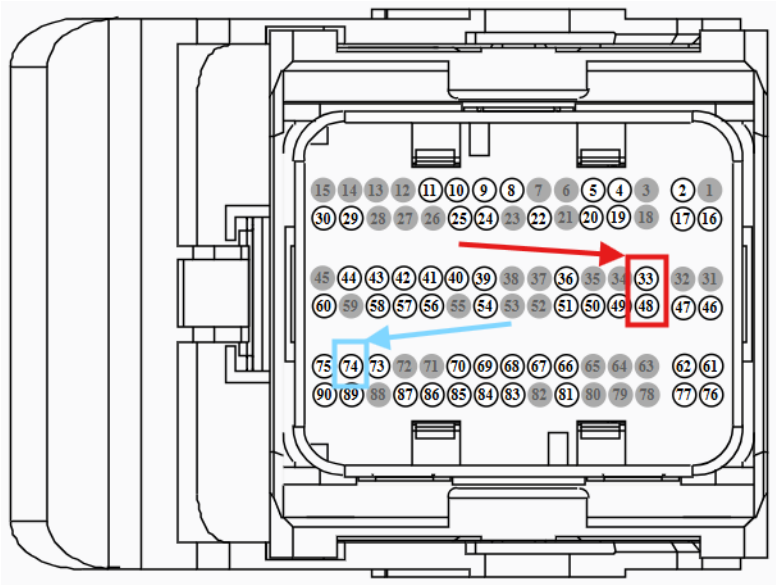
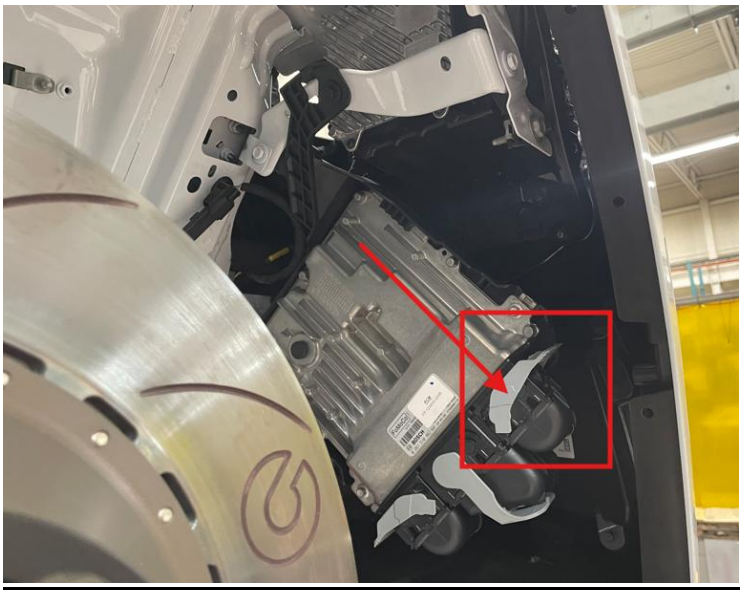


Figure C



NOTE: *If replacing the terminals at C175B 33 (CAN -) or 48 (CAN +) there is a splice for these circuits in the general area of the RED arrow in Figure D. This splice must remain in place in order to maintain the CAN network between the PCM and other modules on the vehicle.*

Figure D