

Field Repair Instructions

Ford F-59 CNG OEM ECU Programming Procedure



Part(s) Affected Ford F-59 compressed natural gas (CNG) OEM engine control unit (ECU)

Overview

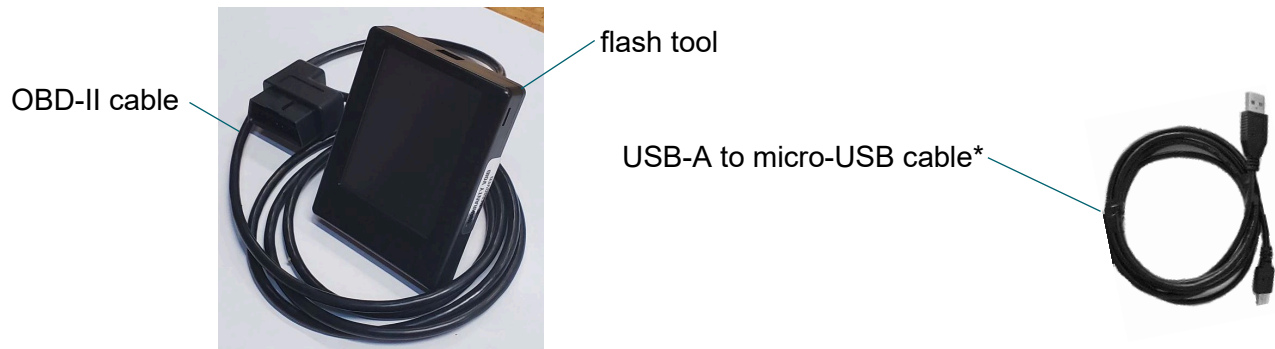
This procedure is used to program the OEM engine control unit (ECU) on Ford F-59 vehicles equipped with Hexagon Agility® CNG fuel systems.

NOTICE

Vehicle ECU calibration requests typically require up to 24 hours for supplier response.

Tools Required

Hexagon Agility® Flash Tool Kit



*Not used in procedure but included in the flash tool kit.

Procedure

NOTICE

Perform **Initial Vehicle Check** prior to proceeding.

Step 1 – Prepare vehicle for flash calibration.

- Confirm flash tool, OBD-II connector cable, and USB-A to micro-USB cable are in the package received from Hexagon Agility® Customer Care and Technical Services (CCTS).
- Turn off all vehicle accessories.
- Unplug all electronic devices from any vehicle power supply or USB port.
- Connect an appropriate battery charger to the vehicle. *Refer to OEM instructions.*

NOTICE

Do not open any vehicle doors or turn on any accessories during the ECM programming procedure.

Step 2 – Save stock calibration.

- Connect OBD-II cable connector to flash tool RJ45 ethernet port. **FIGURE 1**

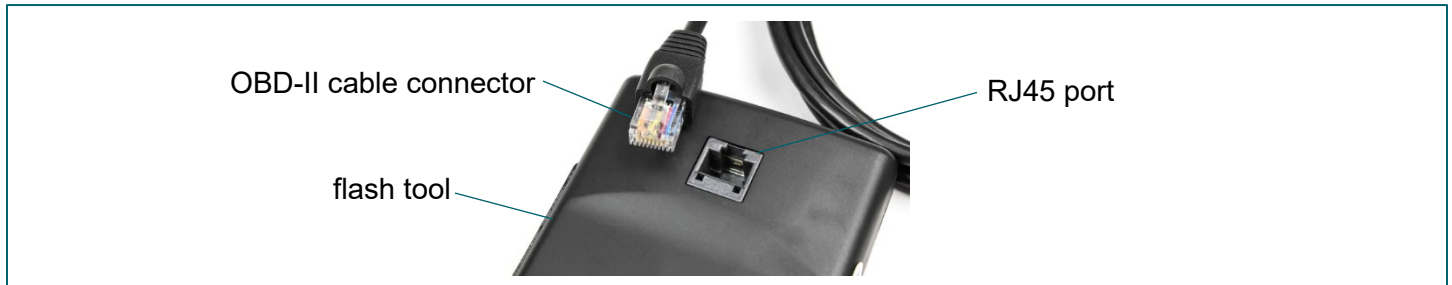


FIGURE 1. Rear of flash tool with RJ45 ethernet port and OBD-II cable connector

- Ignition **OFF**.
- Connect other end of OBD-II connector cable to vehicle OBD-II diagnostic port.
- Ignition **ON**, engine **OFF**.
- Select “Programing” option in the flash tool “Main Menu.”
- Follow onscreen prompts to “Read/Save” the current calibration.

NOTICE

Do not turn off ignition or disconnect flash tool until prompted to do so.

Step 3 – Program ECM.

- Return to “Main Menu.”
- Select “Programming” option in the Main Menu.
- Select “Preloaded Tunes” option.
- Click on the **CNG calibration file** and follow all onscreen prompts.
- After calibration update has been completed, turn Ignition **OFF**.
- Disconnect flash tool from OBD-II diagnostic port.

Step 4 – Start and idle vehicle.

- *If any malfunction indicator lamps (MILs) illuminate, please record codes(s) using an OBD-II scan tool and contact CCTS.*

Step 5 – Test drive vehicle limiting all driving to light throttle operation until shift quality has stabilized.

- *If any malfunction indicator lamps (MILs) illuminate, please record codes(s) using an OBD-II scan tool and contact CCTS.*

Step 6 – Return flash tool kit.

Confirm flash tool, OBD-II connector cable, and USB-A to micro-USB cable are present and return CCTS using the included RMA shipping label.

NOTICE

Flash tool kits must be returned within 5 business days of receipt.

Warranty Information

This procedure is covered under warranty. Standard repair time (SRT) is 1.0 hours which includes flash update and testing.

Hexagon Agility® Customer Care and Technical Services

Fuel system warranty or non-warranty product support may be obtained by calling or emailing Hexagon Agility® Customer Care and Technical Services (CCTS).

Please provide **your name, phone number, email address, and complete vehicle information: VIN, year, make, model, mileage, unit number, and current vehicle location.** A service advisor will contact you to arrange vehicle repair or ship a part.

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