

MEFI 3/4 DTC (Diagnostic Trouble Code) Reader

Parts:

- 12v LED with small solid wire ends***
- 2" small solid wire (paper clip)

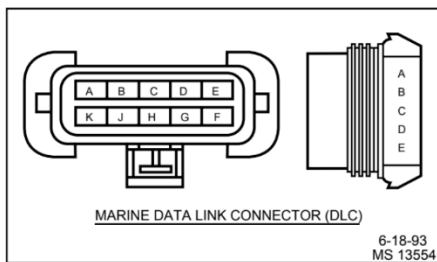
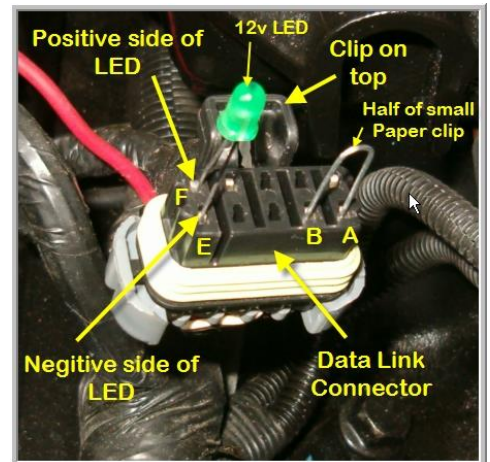
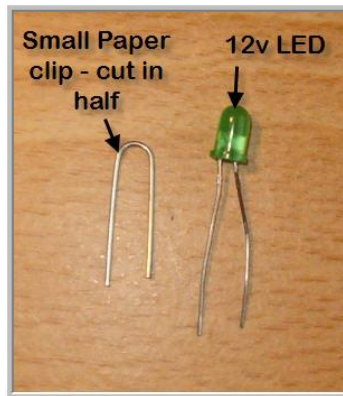


Figure 1-1 - Marine Data Link Connector (DLC)



*** If there is a "Check Engine" Light (CEL) on the dash, a 12v LED may not be needed. When the jumper is inserted, the CEL may flash codes on the dash. ***

MEFI - trouble code manuals here:

<https://www.dropbox.com/sh/o91j4vsfromgu2x/AACERpRmcSTNVoa18-4WPa/Engine%20Manual?dl=0>

Steps:

1. Turn key off
 2. Insert positive side of LED goes into terminal hole F and negative into hole E
 3. Turn ignition key on - LED should come on steady
 4. Turn ignition key off
 5. Jump the A & B terminals - be very careful - jumping/shorting wrong terminals could damage ECU
 6. Turn ignition key on - Once you jump A & B the led will flash
 7. Count flashes - Code 12 (flash(1), pause, flash, flash(2), long pause)
- Repeated code 12 = no issues – otherwise Code 12 will be followed by other DTC codes and repeat

Steps per the manual: MEFI 4 Manual, Section 1 (General Information), page 3

"Once the MDTC tool has been connected, and service mode or "ON" selected, the ignition switch must be moved to the key "ON", engine "OFF" position. At this point, the MIL should flash DTC 12 three times consecutively. This would be the following flash sequence: flash, pause, flash-flash, long pause, flash, pause, flash-flash, long pause, flash, pause, flash-flash. DTC 12 indicates that the ECM's diagnostic system is operating. If DTC 12 is not indicated, a problem is present within the diagnostic system itself, and should be addressed by consulting the On-Board Diagnostic (OBD) System Check in the Diagnosis section.

"Following the output of DTC 12, the MIL will indicate a DTC three times if a DTC is present, or it will continue to flash DTC 12. If more than one DTC has been stored in the ECM's memory, the DTCs will be flashed out from the lowest to the highest, with each DTC being flashed three times. At the end of the DTCs, the ECM will simply go back and start over with flashing DTC 12."

Clearing Diagnostic Trouble Codes - Non Scan

1. Install Diagnostic Trouble Code (DTC) tool.
2. Ignition "ON", engine "OFF".
3. Switch DTC tool to "service mode" or "ON". (Insert jumper between A & B)
4. Move the throttle from 0% (idle) to 100% (WOT) and back to 0%.
5. Switch DTC tool to "normal mode" or "OFF". (Remove jumper from A & B) (If this step is not performed, the engine may not start and run).
6. Turn ignition "OFF" for at least 20 seconds.
7. Ignition "ON", engine "OFF".
8. Switch DTC tool to service mode or "ON" and verify DTC 12 only. Remove MDTC tool.
9. If original DTCs are still present, check "Notice" below and repeat the DTC clearing procedure.
10. If new DTCs are displayed, perform the On-Board Diagnostic (OBD) system check.

NOTICE: When clearing DTCs with or without the use of a scan tool, the ignition must be cycled to the "OFF" position or the DTCs will not clear.

DTC 13 Heated Oxygen Sensor 1 Inactive
DTC 13 Heated Oxygen Sensor 2 Inactive
DTC 14 ECT Sensor Circuit Low
DTC 15 ECT Sensor Circuit High
DTC 21 TP Sensor Circuit High
DTC 22 TP Sensor Circuit Low
DTC 23 IAT Sensor Circuit Low
DTC 24 VSS Sensor Circuit
DTC 25 IAT Sensor Circuit High
DTC 33 MAP Sensor Circuit High
DTC 34 MAP Sensor Circuit Low
DTC 41 IC Circuit - Open IC
DTC 42 IC Circuit - Grounded IC Open or
Grounded Bypass Scan
DTC 44 Knock Sensor 1 System
DTC 44 Knock Sensor 2 System
DTC 51 Calibration Checksum Failure
DTC 54 Heated Oxygen Sensor 1 Low
DTC 54 Heated Oxygen Sensor 2 Low
DTC 55 Heated Oxygen Sensor 1 High
DTC 55 Heated Oxygen Sensor 2 High
DTC 81 Fuel Pump Relay Driver Circuit
DTC 81 Fuel Injector Driver A Circuit
DTC 81 Fuel Injector Driver B Circuit
DTC 81 5 Volt Reference Out Of Range