

MODIFICATION BULLETIN

Subject: **Modification 05M-2**
Series 60 EPA 04 Injector Harness

Defect Involved

Detroit Diesel Corporation (DDC) has found a quality issue on Series 60 EGR 12.7 and 14L engines which will require the injector harness to be replaced on units built between December 1, 2003 and February 14, 2005. In some cases DDC would like to update the fuel pump to the latest configuration which includes a pressure regulator in place of the R80 restrictive fitting on units built between December 1, 2003 and December 21, 2004. DDC will also take this opportunity to update the copper washers and o-rings on the injectors for these units while replacing the injector harness as well as reprogramming the ECM to the latest calibration.

Replacing the injector harness will address the quality issues on these engines that may lead to customer dissatisfaction. Replacing the fuel pump with an assembly to include a regulator will improve the fuel pressure stability. Also in order to enhance the robustness of the injector to cup seal the following steps need to be taken:

1. Replace injector copper washers and injector hold-down clamp washers with increased hardness as well as replace existing o-rings
2. Injector bolt torque will need to be increased from 65 to 70 NM

Engines Involved

A list of engines located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Model Year	Inclusive Mfg. Date (From) (To)	Other Descriptive Information
Series 60	2004	December 1, 2003 – December 21, 2004	All On-Highway EGR Applications
Series 60	2005	January 1, 2005 – February 14, 2005	All On-Highway EGR Applications

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Owner Notification

Detroit Diesel Corporation will notify owners of equipment incorporating engines identified with this modification. A copy of the owner letter that will be used by DDC is enclosed with this bulletin.

Distributor / Dealer Modification Responsibility

Detroit Diesel Distributors and Dealers are to service all engines subject to this modification. The modification is to be performed at no charge to owners on all affected engines under the engine warranty or prior to **May 5, 2006**, under the provisions of this modification notice.

Parts Information

Parts required for Engine Serial Number Range 06R0755298 through 06R0814265:

Part Number	Quantity	Part Description
23532014	1	Injector Harness (with Jake Brakes)
23533304	1	Injector Harness (without Jake Brakes)
R23535776	1	Injector O-Ring and Washer, & Fuel Pump Service Kit

Parts required for Engine Serial Number Range 06R0814266 through 06R0823823:

Part Number	Quantity	Part Description
23532014	1	Injector Harness (with Jake Brakes)
23533304	1	Injector Harness (without Jake Brakes)
23535700	6	Injector O-Ring and Washer Service Kit

Corrective Procedure

- **Reference** attached Tech Service Bulletin (05 TS-04):
New Fuel Pump & Regulator for Series 60 EGR DDEC V Engines
- **Reference** attached Tech Service Bulletin (05 TS-14):
Series 60 EGR DDEC V N3 Injector and Harness
- **Reference** 18SP607 and 18SP611 for Installation Instructions.
 - 18SP607** Series 60[®] EGR DDEC V Fuel Pump, Combination Pressure Regulator / Check Valve, and N3 Injector O-Ring and Washer Kit
 - 18SP611** N3 Injector Washer and O-Ring Seal Kit for Series 60[®] EGR DDEC V Engines
- **Reprogram** the ECM with current Mainframe Calibrations;
 - **NO** Mainframe Change is **REQUIRED**;
 - Select '**NO CHARGE**' and Enter "05M2" for the reason for "**No Charge**" in the comment area.

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Warranty Information

Claim Type:		01
Modification:		05M2
Failure Code:		037
Complaint Code:		PD
Primary Failed Part:	with Jake	23532014 <i>or</i>
Brake		23533304
	without Jake Brake	

Labor:

with Jakes	7.6* Hours
without Jakes	7.0* Hours

Replace Injector Harness
Replace Fuel Pump and Regulator
Replace Copper Washers and existing O-Rings
Injector Bolt Torque
Reprogram ECM
Clean and Test

Labor:

with Jakes	6.8* Hours
without Jakes	6.2* Hours

Replace Injector Harness
Replace Copper Washers and existing O-Rings
Reprogram ECM
Clean and Test

*Includes 0.5 Hour for Reprogramming ECM.
Deduct 0.5 Hour if a ECM reprogramming is not performed.

Labor Operation:	02.99-00
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Parts Return:	Yes**
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**Return FUEL PUMP ONLY to Detroit
Diesel Remanufacturing Facility

Should you have any additional questions, please contact Detroit Diesel.

DETROIT DIESEL CORPORATION
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