SERVICE BULLETIN No.1192

Addressees: owners and operators of units listed under 'Application'

COACH MODEL	**:** T2140, T2145, S2145, and C2045
BULLETIN TYPE	**:** Safety Recall Program
SECTION	**:** Section 3 – Drive Train
DATE	**:** September 1, 2006
SUBJECT	**: Detroit Diesel NHTSA recall campaign #06E-019**
TERMS & CONDITIONS	**:** Refer to Detroit Diesel Safety Recall Bulletin 06C-4, which has been attached to this Bulletin.

APPLICATION:

The service information subject of this Bulletin is applicable to following units:

Model	Engine	VIN
T2140	Detroit Diesel Series 60	40611 → 40617
T2145		43985 → 43999, 44501 → 44517, 44528 → 44565 → 44657
S2145		42210, 42213 → 42218, 42221, 42223 → 42224
C2045		45521 → 45999, 46501 → 46702

DESCRIPTION:

1. Detroit Diesel Corporation (DDC) has informed Van Hool that there is a safety concern on the exhaust systems on Series 60 coach and motor home engines.
   The affected engines have been manufactured between January 1, 2000 and March 3, 2006.
   To address the issue, DDC has initiated a Safety Recall Campaign in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

2. The Safety Recall will require reprogramming all Electronic Control Modules (ECM), and installing barometric pressure sensors and pigtail harnesses on certain Series 60 engines to prevent the possibility of a turbocharger failure progressing to an engine compartment fire by allowing lubrication oil to enter the exhaust system.

Description continued on next page.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

Continued from page 1.

3. DDC has instructed its Authorized Repair Facilities to repair the engines of the above-mentioned units at no charge.
   Reprogramming these engines will take approximately 0.5 hours.
   For units that need reprogramming as well as wiring changes and sensor installation, repair time will be approximately 1.0 hours.
   Please contact your authorized repair facility to arrange a service date ASAP.

4. This Service Bulletin supplements the Van Hool customer notification letter, which has been sent to owners and operators of affected coaches by certified mail.

   CAUTION: The customer notification letter contains the details necessary to successfully complete the conversion of your engines. Please read immediately.

   If there are any questions regarding this campaign please call ABC Customer Care & Parts Source for assistance.

5. For your information following documents have been attached to this Bulletin:

   1) Detroit Diesel owner's notification letter
   2) Detroit Diesel Safety Recall Bulletin 06C-4

Description complete.

SERVICE INFORMATION:

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

DETROIT DIESEL

CORPORATION

Attention Owner:

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

Detroit Diesel Corporation (DDC) has decided that a defect which relates to motor vehicle safety exists in the exhaust systems in certain Series 60 Coach and Motor Home engines.

The turbocharger can fail, allowing lubricating oil to enter the exhaust system. This can result in a fire in the engine compartment.

Records available to us indicate that your vehicle is equipped with one of these affected engines. DDC will repair your engine at no charge to you by reprogramming the ECM to prevent the possibility of a turbocharger failure progressing to an engine compartment fire. We estimate that it will take approximately 0.5 hours to reprogram your engine. In addition to reprogramming the ECM, certain model year engines will need to have barometric pressure sensors and pigtail harnesses installed. The estimated time for this repair is approximately 1.0 hours. Please contact your authorized repair facility to arrange a service date.

If you have any questions about this recall campaign, you may call 313-592-3708. If you believe that DDC has failed or is unable to remedy the defect without charge within a reasonable time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590 or call the toll-free Auto Safety Hotline at 1-888-327-4236; (TTY: 1-800-424-9153); or go to http://www.safercar.gov.

If you had this reprogramming done before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. **If you are the lessor of this vehicle, Federal Law requires that you forward this notice to the lessee within ten days.** For more information, contact Warranty Administration at Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48239 or call (313) 592-5791.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your continued satisfaction with our products.

DETROIT DIESEL CORPORATION
CAMPAIGN BULLETIN 06C-4
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)

SAFETY RECALL BULLETIN

Subject: **Safety Recall 06C-4**
Series 60 Burst Logic

Defect Involved

Detroit Diesel Corporation (DDC) has determined that Detroit Diesel Series 60 engines equipped in Coach and Motor Homes will require the ECM to be reprogrammed to current mainframe calibrations. In addition to reprogramming the ECM, barometric pressure sensors and pigtail harnesses will need to be installed on Model year 2000-2002 engines (Model No. 6067-MK28 and 6067-BK28). Reprogramming the ECM will prevent the potential of a turbocharger failure from progressing to an engine compartment fire.

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)
Series 60	2000-2006	January 1, 2000 – March 3, 2006

Owner Notification

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

Distributor/Dealer Campaign Responsibility

Detroit Diesel Repair Facilities are to service all engines subject to Recall 06C-4. Recall 06C-4 is to be performed at no charge to owners on all affected engines under the engine warranty or under the provisions of Recall 06C-4.

Upon completion of Recall 06C-4, or if there is knowledge to the fact that Recall 06C-4 has been performed on an engine that is listed on the Serial Number List provided by DDC, please apply a **"CAMPAIGN 06C-4 COMPLETE"** label on the valve cover.

Instructions for downloading and printing "**Campaign 06C-4 Completed**" labels reside on the Extranet under:

Warranty/Letters/Modification Letters/Modification Bulletins, 2006/06C-4

Parts Information

Parts listed below are **ONLY** for **Model Year 2000-2002** Series 60 Coach and Motor Home engines (**Model No. 6067-MK28** and **6067-BK28**).

Quantity Required	Description	Part Number
1 each	Barometric Pressure Sensor	23527673
1 each	Pigtail Harness for Barometric Sensor	23536485

Corrective Procedure

- ***Reprogram*** the ECM with current Mainframe Calibrations
- ***NO*** Mainframe Change is ***REQUIRED***;
- *Select* '**NO CHARGE**" and Enter "**06C4**" for the reason for "**No Charge**" in the comment area.

Corrective Procedure – (Continuation)

- ***Reference*** the attached Installation Instructions for installing the Barometric Pressure Sensor and Pigtail Harness **(Attachment I)**.

Warranty Information

Claim Type:	04
Modification:	**06C4**
Failure Code:	098
Complaint Code:	PD
Primary Failed Part:	**Reprogram**
Labor:	
Programming Only	0.5 Hours
Programming & Hardware	1.0 Hours
Parts Return:	**None**

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

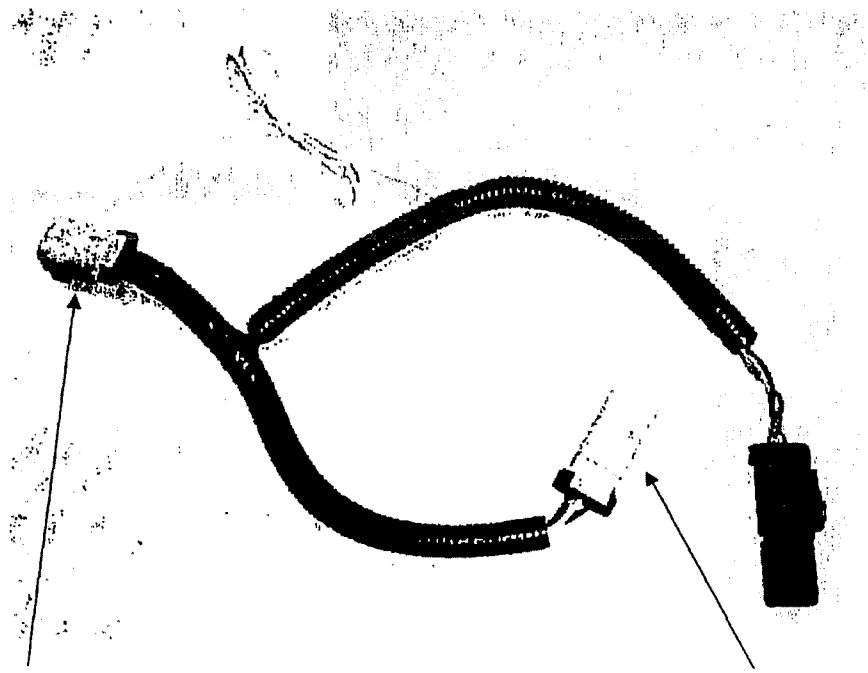
DETROIT DIESEL CORPORATION
13400 Outer Drive West
Detroit, Michigan 48239-4001

Attachment I

Compressor Wheel Burst Logic with Separate Baro Sensor

- **DDEC Feature Description**
- **This feature will aid in the detection of a failed turbocharger on the S60 diesel and natural gas engines.**
- **DDEC will monitor engine speed, load, air inlet pressure (natural gas) or turbo boost (diesel), barometric pressure, and the digital input for the parking brake.**
- **If the engine rpm increases due to driver power demand, and there is no significant increase in the intake manifold pressure, DDEC will turn on the CEL and SEL, log a hard fault turbo speed low (PID 103 FMI 1) and initiate a shutdown. This feature will be disabled if the parking brake is applied, as in the engine no load test.**
- **A turbocharger failure is detected when all of the following conditions are met:**
  - **Park brake is not active**
  - **Engine speed is greater than 1200 rpm**
  - **Intake manifold pressure is less than barometric pressure**
  - **Load demand is greater than 30%**
  - **The failure condition has existed for .1 seconds**
- **Once these conditions have been meet, the following action will take place:**
- **Initiate shutdown to be overridden by stop engine override**

Baro Harness and Sensor



Connect to Turbo Booost Sensor Connect to Sensor Harness Connector

Harness P/N 23536485
Sensor P/N 23527673

Van Hool SB 1192

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