



MOTOR COACH INDUSTRIES

Timothy J. Nalepka
Senior Vice President & General Counsel

Direct Line: (847) 285-2085
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April 24, 2006

BY TELEFAX

National Highway Traffic Safety Administration
400 Seventh Street, N.W.
Washington, DC 20590
Attention: Ms. Kelly Schuler

06V-140
(26 pages)

Re: **NHTSA Campaign No. 06E-019**
Detroit Diesel Corp. Series 60 Turbocharger Failure

Dear Ms. Schuler:

Pursuant to 49 CFR 573.3(f) and 573.6, I have enclosed Motor Coach Industries, Inc.'s ("MCI") Part 573 Defect and Noncompliance Report and proposed customer notification letter in connection with the referenced matter. It is MCI's understanding that Detroit Diesel Corporation will be submitting the quarterly reports required for this recall, pursuant to 49 CFR 573.3(f) and 573.7.

Please confirm receipt of these documents and advise if NHTSA has any comments or recommendations prior to MCI sending the customer notifications.

Thanks for your assistance with this matter.

Sincerely,
MOTOR COACH INDUSTRIES, INC.


By: Timothy J. Nalepka
Senior Vice President &
General Counsel

Enclosures

Safety Defect and Noncompliance Report Guide for Vehicles
PART 573 Defect and Noncompliance Report⁽¹⁾

On March 22, 2006, Motor Coach Industries, Inc. decided that a defect which relates to motor vehicle safety exists in the motor vehicles listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Reports.

Date this report was prepared: April 24, 2006

Furnish the manufacturer's identification code for this recall (if applicable):

Detroit Diesel Corporation Safety Recall 06C-4 (copy attached hereto and incorporated herein) (NHTSA # 06E-019)

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Motor Coach Industries, Inc.
1700 E. Golf Road
Suite 300
Schaumburg, IL 60173

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

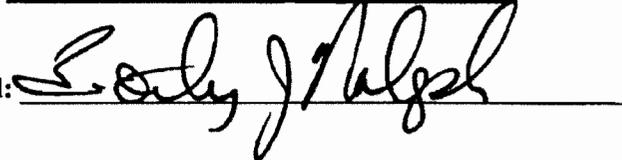
Timothy J. Nalepka
Senior Vice President & General Counsel

Telephone Number: (847) 285-2085 Fax No.: (847) 285-2095

Name and Title of Person who prepared this report.

Timothy J. Nalepka
Senior Vice President & General Counsel

Signed: _____



I. Identify the Vehicle Models Involved in the Recall

2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:

Make(s): MCI
Model Years Involved: 2000-2006
Model(s): D, DL3, D4000, D4005, DISTV, D4500, D4505
Production Dates: **Beginning:** 1/28/2000 **Ending:** 2/15/2006
VIN Range: **Beginning:** 53038 **Ending:** 57197
Vehicle Type: Bodystyle: COACH; D SERIES

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Make(s): MCI
Model Years Involved: 2000 – 2005
Model(s): 102EL3, E4500
Production Dates: **Beginning:** 12/10/2000 **Ending:** 06/10/2005
VIN Range: **Beginning:** 61275 **Ending:** 63243
Vehicle Type: Bodystyle: COACH; E SERIES

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Make(s): MCI
Model Years Involved: 2001 – 2006
Model(s): J4500
Production Dates: **Beginning:** 08/18/2000 **Ending:** 01/11/2006
VIN Range: **Beginning:** 61491 **Ending:** 63545
Vehicle Type: Bodystyle: COACH; J SERIES

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Make(s): MCI

Model Years Involved: 2001 – 2004

Model(s): G4500

Production Dates: **Beginning:** 2001 **Ending:** 2004

VIN Range: **Beginning:** 80026 **Ending:** 80518
62536 62561

Vehicle Type: Bodystyle: COACH; G SERIES

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

The vehicles included in the recall are those containing a Detroit Diesel Corporation Series 60 engine as described more fully in the attached (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

Models and Model Years Potentially Involved

| | <u>D Series</u> | <u>E Series</u> | <u>G Series</u> | <u>J Series</u> |
|--------------|-----------------|-----------------|-----------------|-----------------|
| <u>2001</u> | <u>365</u> | <u>224</u> | <u>44</u> | <u>56</u> |
| <u>2002</u> | <u>1001</u> | <u>60</u> | <u>248</u> | <u>149</u> |
| <u>2003</u> | <u>741</u> | <u>91</u> | <u>198</u> | <u>261</u> |
| <u>2004</u> | <u>279</u> | <u>29</u> | <u>27</u> | <u>255</u> |
| <u>2005</u> | <u>143</u> | <u>8</u> | | <u>248</u> |
| <u>2006</u> | <u>161</u> | <u>12</u> | | <u>165</u> |
| <u>Total</u> | <u>2690</u> | <u>424</u> | <u>517</u> | <u>1134</u> |

Total Number Potentially Affected by the Recall: 4765

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance:

100 % of the models identified above, excluding those vehicles containing an engine from a supplier other than Detroit Diesel Corporation, or a Detroit Diesel Corporation Series 60 engine that is not included in the recall described more fully in the attached (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Identify and describe how the recall population was determined—in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:

MCI determined the recall population based on the information provided by Detroit Diesel Corporation in the attached (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Describe the cause(s) of the defect or noncompliance condition.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Describe the consequence(s) of the defect or noncompliance condition.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Identify any warning which can (a) precede or (b) occur.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

IV. Provide the Chronology in Determining the Defect/Noncompliance

If the recall is for a defect, complete item 6, otherwise item 7.

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.

V. Identify the Remedy

8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

VI. Identify the Recall Schedule

9. Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.

See attached copy of (1) Detroit Diesel Corporation Part 573 Defect and Noncompliance Responsibility and Reports dated March 8, 2006, and (2) Detroit Diesel Corporation notification to customers, incorporated herein by reference.

VII. Furnish Recall Communications

10. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.*

Note that these documents are to be submitted separately from those provided in accordance with Part 573.8 requirements.

Safety Defect and Noncompliance Report Guide for Vehicles
PART 573 Defect and Noncompliance Responsibility and Reports

On January 4, 2006, Detroit Diesel Corporation decided that (a defect which relates to motor vehicle safety)(a noncompliance with Federal Motor Vehicle Safety Standard No. N/A) exists in the motor vehicles listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Responsibility and Reports.

Date this report was prepared: March 8, 2006

Furnish the manufacturer's identification code for this recall (if applicable): 06C-4

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Detroit Diesel Corporation
13400 Outer Drive West
Detroit, Michigan 48239

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

Glenn W. Lysinger
Chief Compliance Officer

Telephone Number: (313) 592-7357 Fax No.: (313) 592-5906

Name and Title of Person who prepared this report.

Glenn W. Lysinger
Chief Compliance Officer

Signed:

Glenn W. Lysinger

¹ Each manufacturer must furnish a report, to the Associate Administrator for Safety Assurance, for each defect or noncompliance condition which relates to motor vehicle safety.

This guide was developed from 49 CFR Part 573, "Defect and Noncompliance Responsibility and Reports" and also outlines information currently requested. Any questions, please consult the complete Part 573 or contact Mr. George Person at (202) 366-5210 or by FAX at (202) 366-7882.

I. Identify the Vehicle Models Involved in the Recall

2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:

Make(s): Series 60 Model Years Involved: 2000 through 2005

Model(s): Highway Coach and Motor Home

Production Dates: Beginning: 1-1-2000 Ending: 3-3-06

VIN Range: Beginning: 6R- Ending: N/A

Vehicle Type: _____ Bodystyle: N/A

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Make(s): _____ Model Years Involved: _____ Model(s): _____

Production Dates: Beginning: _____ Ending: _____

VIN Range: Beginning: _____ Ending: _____

Vehicle Type: _____ Bodystyle: _____

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Make(s): _____ Model Years Involved: _____ Model(s): _____

Production Dates: Beginning: _____ Ending: _____

VIN Range: Beginning: _____ Ending: _____

Vehicle Type: _____ Bodystyle: _____

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

| Model | Year | Number of Vehicles Potentially Involved |
|--|------|---|
| Series 60 | 2000 | 2,871 |
| Series 60 | 2001 | 2,397 |
| Series 60 | 2002 | 2,538 |
| Series 60 | 2003 | 1,674 |
| Series 60 | 2004 | 1,612 |
| Series 60 | 2005 | 1,293 |
| Series 60 | 2006 | 104 |
| Total Number Potentially Affected by the Recall: | | 12,489 |

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: 100%

Identify and describe how the recall population was determined—in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:

Turbocharger speeds were progressively increased as emissions regulations required performance improvements to optimize combustion processes. With the 2000 emissions regulations, turbocharger speeds increased. It is on these units and later where fires were experienced. Build records and warranty information records were examined to determine the population of units built prior to when the ECM programming logic was installed to detect a turbocharger wheel burst.

III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

The turbocharger on these engines may fail. The failure would consist of breakage of the turbocharger compressor.

Describe the cause(s) of the defect or noncompliance condition.

The turbocharger compressor wheel is subject to low cycle fatigue as a result of certain duty cycles of the vehicle operation. This could lead to breakage of the wheel.

Describe the consequence(s) of the defect or noncompliance condition.

Turbocharger compressor wheel failure can result in shaft imbalance and lubricating oil passing into the exhaust system. This can result in a fire.

Identify any warning which can (a) precede or (b) occur.

The failure can occur without warning. When such a condition occurs, visible exhaust smoke can be seen out the exhaust tailpipe.

If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.

The turbochargers in question were manufactured by two suppliers. The first is:

Honeywell Turbocharging Technologies

3201 W. Lomita Blvd.

Torrance, CA

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Jeff Donnell, President

If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.

The turbochargers in question were manufactured by two suppliers. The second is:

Borg Warner Inc.

3850 Hamlin Road

Auburn Hills, MI 48326

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Timothy M. Manganello, CEO

IV. Provide the Chronology in Determining the Defect/Noncompliance

If the recall is for a defect, complete item 6, otherwise item 7.

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

The Series 60 engine has been used in coach applications for many years. There have been six cases reported alleging turbocharger failures as a cause of fires on coaches built between 2000 and 2004 where investigation revealed there was turbocharger failure existent upon inspection of the coach. Some of these cases, upon investigation, revealed there was no fire, but smoke from the exhaust alerted the driver of a problem. There have been no accidents, injuries or fatalities associated with these fires. The information on these cases was determined by a search of customer complaints, field reports and warranty records. A summary chart is attached.

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.

N/A

V. Identify the Remedy

8. A description of the manufacturer's program for remedying the defect or noncompliance. This program shall include a plan for reimbursing an owner or purchaser who incurred costs to obtain a remedy for the problem addressed by the recall within a reasonable time in advance of the manufacturer's notification of owners, purchasers and dealers, in accordance with §573.13 of this part. A manufacturer's plan may incorporate by reference a general reimbursement plan it previously submitted to NHTSA, together with information specific to the individual recall. Information required by §573.13 that is not in a general reimbursement plan shall be submitted in the manufacturer's report to NHTSA under this section. If a manufacturer submits one or more general reimbursement plans, the manufacturer shall update each plan every two years, in accordance with §573.13. The manufacturer's remedy program and reimbursement plans will be available for inspection by the public at NHTSA headquarters.

Detroit Diesel will conduct a Safety Recall Campaign to reprogram the ECM calibration and install a barometric pressure sensor where necessary.

9. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.

The ECM calibration will detect a turbocharger wheel burst failure. The logic will then reduce fuel to the engine and safely shut it down to prevent a fire.

Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

All affected engines will be recalled to program the ECM to the new logic which detects and addresses a turbocharger wheel burst failure.

Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.

The ECM was programmed with turbocharger wheel burst detection logic on certain units beginning on 10-1-05. Turbocharger wheel burst detection logic was programmed into all other units in production beginning 3-3-06.

VI. Identify the Recall Schedule

10. Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.

ECM programming is not a part, but is software that is available through Detroit Diesel authorized service outlets. The barometric sensor, if required is available through the Detroit Diesel Service Parts System.

VII. Furnish Recall Communications

11. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.*

Note that these documents are to be submitted separately from those provided in accordance with Part 579.5 requirements.

Series 66 Equipped Coaches Alleged to be Caused by Turbocharger Failure

| <u>Date</u> | <u>Customer</u> | <u>Serial No.</u> | <u>Build Year</u> | <u>Mileage</u> | <u>Damage Description</u> | <u>OEM</u> | <u>Cause</u> |
|-------------|--|-------------------|-------------------|----------------|---|------------|------------------------------------|
| 7-Jul-04 | Liberty Lines #538 Westchester County | 6R-688152 | 2002 | 94,659 miles | Flames out Exhaust, No Damage | Neoplan | Turbo |
| 28-Jul-04 | Liberty Lines #539 Westchester County | 6R-686138 | 2002 | 90,427 miles | Flames out Exhaust, No Damage | Neoplan | Turbo |
| 2-Aug-04 | New Jersey Transit #7701 | 6R-672292 | 2002 | 91,446 miles | Damage Minimal | MCI | Turbo |
| 2-Aug-04 | Liberty Lines #502 Westchester County | 6R-663293 | 2001 | 90,615 miles | Smoke out Exhaust, No Damage | Neoplan | Turbo |
| 6-Aug-04 | Liberty Lines #576 Westchester County | 6R-771274 | 2004 | 50,522 miles | Smoke out Exhaust, No Damage | Neoplan | Turbo |
| 11-Aug-04 | Adventure Bus Charter & Tours Inc | 6R-618104 | 2000 | 284,577 miles | Damage to the fan and radiator and engine compartment | MCI | Turbo Compressor Wheel Burst |

06E-017

DETROIT DIESEL RECEIVED



2006 MAR 14 A 11:37

A DaimlerChrysler PowerSystems Company

Attention Owner:

OFFICE OF DEFECTS
INVESTIGATION

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 Detroit Diesel Distributor 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)**



«Customer»
«attention»
«address»
«c», «s» «zip»

April XX, 2006

SUBJECT: DETROIT DIESEL SERIES 60 BURST LOGIC SAFETY RECALL

Ref: NHTSA # 06E-019
Detroit Diesel Corp. Campaign No. 06C-4

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. DDC has determined that the turbocharger can fail, allowing lubricating oil to enter the exhaust system. This can result in a fire in the engine compartment. Please see enclosed DDC customer notification letter and DDC Safety Recall Bulletin 06C-4.

MCI records indicate that you are the owner or operator of the following unit(s) affected by DDC Safety Recall Bulletin 06C-4:

«unit_number»

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. DDC estimates that it will take approximately 0.5 hour 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 hour. Please contact your DDC authorized repair facility to arrange a service date.

If you have any questions about this recall campaign, you may contact DDC at 313-592-3708, or the MCI Customer Service Line at 1-800-241-2947.

After contacting your DDC authorized repair facility and MCI Customer Service, if you are still unable to have the safety defect remedied without charge and 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 Vehicle 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 from DDC for the cost of obtaining a pre-notification remedy of the problem associated with this recall. For more information, contact Warranty Administration at Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48239 or call (313) 592-5791.

If you are the lessor of this vehicle, Federal law requires that you forward this notice to the lessee within ten days of your receipt of this notice.

If you have sold or otherwise transferred the vehicle(s) identified above, please contact the MCI Customer Service Line at 1-800-241-2947 with all of the information you have regarding the current owner/operator of the vehicle(s), so that we can ensure that the vehicles are corrected.

Motor Coach Industries apologizes for any inconvenience this may cause, but urges you to implement DDC's Safety Recall Bulletin 06C-4 as soon as possible.

Sincerely,

Motor Coach Industries
Warranty Department

Enclosures: 1. DDC Owner Notification Letter
2. DDC Safety Recall Bulletin 06C-4

DETROIT DIESEL

A DaimlerChrysler Powersystems Company



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.

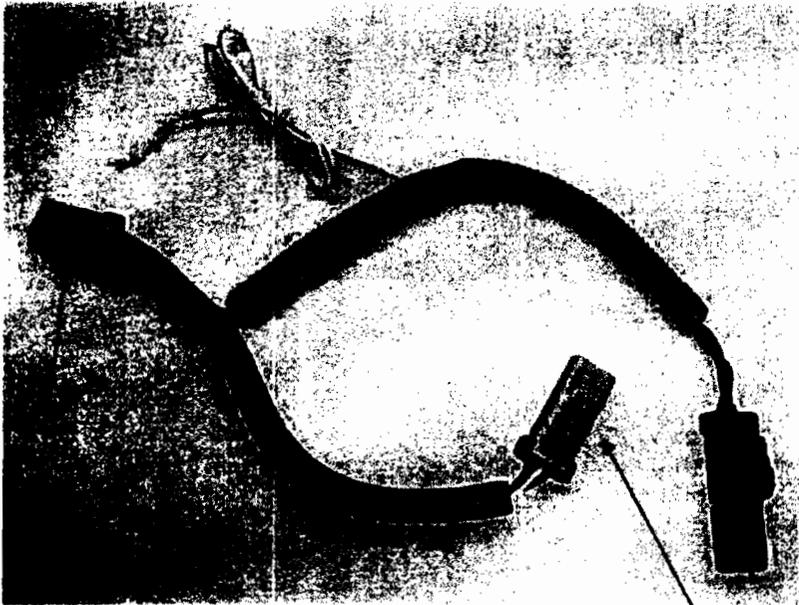
DETROIT DIESEL CORPORATION
13400 Outer Drive West
Detroit, Michigan 48239-4001

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 met, the following action will take place:
- Initiate shutdown to be overridden by stop engine override

Baro Harness and Sensor



Connect to Turbo Boost Sensor

Connect to Sensor Harness Connector

Harness P/N 23536485

Sensor P/N 23527673

S60 Installation

Installation of the barometric pressure harness and sensor.

This is a jumper (T) harness.

Unplug the turbo boost sensor and connect this harness in series with the existing sensor.

The loose length of wire needs to be installed in cavity L1 of the 30 pin sensor harness connector.

Remove 30 pin sensor harness connector from ecm.

Remove the cavity plug and install the new wire

Reconnect 30 pin to ecm.

See DDEC manual for further information.

Locating Sensor

Tie wrap the sensor to the engine sensor harness below the intake manifold.

