NEW FLYER

06V-212
(17 Pages)

8 June, 2006

George Person
Head - Recall Management Division
US DOT – National Highway Traffic Safety Administration
Office of Defects Investigation (NVS-215)
400 Seventh St. S.W.
Washington, DC 20590

Subject: Safety Recall – **Cummins ISL & ISC Engine High Pressure Fuel Lines.**

Dear Mr. Person:

This letter is written to inform you of New Flyer Industries' intention to notify customers of a safety defect related to Cummins ISL engines installed on New Flyer transit buses between August 2003 and March 2006.

The Cummins ISL and ISC Engines equipped with the CM850 fuel system have a high pressure fuel line, which conducts fuel from the high pressure pump to the engine fuel rail at a nominal pressure of 18,000 to 22,000 psi. This fuel line has had several reported failures in the field on New Flyer buses equipped with Cummins ISL engines.

Failure of the line introduces high pressure atomized fuel into the engine compartment which can ignite when it comes in contact with a hot surface (i.e. exhaust or turbocharger).

Post failure examination of the lines, determined that they failed due to excessive vibration. Cummins has since developed a bracket for installation to alleviate the stress on this line, and are currently conducting Cummins campaign c0610 to address this. The correction campaign involves the replacement of the existing fuel line, addition of new bracket and the marking of code 0610 on the engine data plate.

The window for the recall encompasses all Cummins ISL engines supplied to New Flyer production plants prior to the receipt of engines with the fuel line bracket installed. New Flyer does not offer or install ISC engines.

Headquarters/ Winnipeg Facility
711 Kernaghan Avenue
Winnipeg, Manitoba
R2C 3T4 Canada
Ph: (204) 224-1251
Fx: (204) 224-0551
E: bussales@newflyer.com

Customer Services
25 DeBaets Street
Winnipeg, Manitoba
R2J 4G5 Canada
Ph: (204) 982-8400

New Jersey Service Support Center
808 Garfield Avenue
Jersey City, New Jersey
07305-4423 USA
Ph: (201) 369-1200
Fx: (201) 369-0345

New Product Development
Unit 7, 45 Beghin Avenue
Winnipeg, Manitoba
R2J 4B9 Canada
Ph: (204) 982-8413
Fx: (204) 654-4941

Crookston Facility
214 5th Avenue SW
Crookston, Minnesota
56716 USA
Ph: (218) 281-5752
Fx: (218) 281-5672

St. Cloud Facility
6200 Glenn Carlson Drive
St Cloud, Minnesota
56301 USA
Ph: (320) 203-0576
Fx: (320) 203-0584

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New Flyer will contact the customers who purchased these buses with instructions to contact their local Cummins dealer to arrange to have the campaign completed as soon as possible.

At this time New Flyer is in disagreement with Cummins Inc. that this is a safety recall. New Flyer is therefore filing the appropriate 573 report (see attached). If you have any further questions please contact me.

Sincerely,

Kerry Legg
Safety and Compliance Manager
Customer Service Support
Office (204) 934-4876
Fax (204) 224-0248
email kerry_legg@newflyer.com .

cc: H. Peper, C. Murray, D. Bean, S. Halbesma, J. Funari

Attachments: 573 Defect Report,
Sample Letter to Customer,
C610 Installation Instructions
Cummins Field Campaign Notification

Safety Defect and Noncompliance Report Guide for Vehicles

PART 573 Defect and Noncompliance Report[1]

On 1 June, 2006 New Flyer 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: 8 June, 2006

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

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.

New Flyer Industries Limited 711 Kernaghan Ave, Winnipeg, Manitoba, Canada, R2C 3T4

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

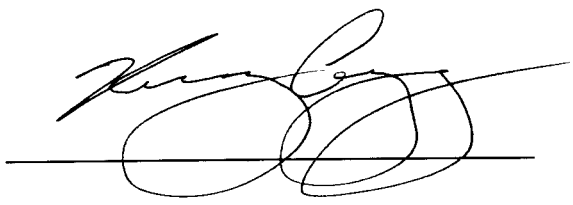
Kerry Legg, Safety and Compliance Manager

PH: 204-934-4876

Fax: 204-224-0248

Name and Title of Person who prepared this report.

Kerry Legg, Safety and Compliance Manager

Signed: 

I. Identify the Vehicle Models Involved in the Recall

2. Identify the Vehicles Involved in the Recall,

Make(s): New Flyer **Model Years Involved:** 2003 through 2005 **Model:** D30LF

Production Dates: Beginning: Aug 03 **Ending:** May 05

VIN Range: Beginning: **026040** **Ending:** **027642**

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 30 Foot Diesel Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

Make(s): New Flyer **Model Years Involved:** 2003 through 2006 **Model:** D35LF

Production Dates: Beginning: Aug 03 **Ending:** Mar 06

VIN Range: Beginning: **026078** **Ending:** **029749**

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 35 Foot Diesel Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

Make(s): New Flyer **Model Years Involved:** 2005 **Model:** D40I

Production Dates: Beginning: Jan 05 **Ending:** Jun 05

VIN Range: Beginning: 027379 **Ending:** 028154

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 40 Foot Invero Diesel Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

Make(s): New Flyer **Model Years Involved:** 2005 through 2006 **Model:** D40LF

Production Dates: Beginning: Aug 03 **Ending:** Mar 06

VIN Range: Beginning: **025757** **Ending:** 029639

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 40 Foot Diesel Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

Make(s): New Flyer **Model Years Involved:** 2005 **Model:** DE35LF

Production Dates: Beginning: Nov 05 **Ending:** Dec 05

VIN Range: Beginning: 028938 **Ending:** 028941

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 35 Foot Diesel/Electric Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

Make(s): New Flyer **Model Years Involved:** 2005 through 2006 **Model:** DE40LF

Production Dates: Beginning: Aug 04 **Ending:** Mar 06

VIN Range: Beginning: 026929 **Ending:** 029636

Vehicle Type: Heavy Duty Transit Bus **Bodystyle:** 40 Foot Diesel/Electric Low Floor Bus

Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:
Recalled Vehicles have Cummins ISL engine installed.

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.

19.9 %

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
D30LF	2003 - 2005	21
D35LF	2003 - 2006	73
D40I	2005	43
D40LF	2003 - 2006	574
DE35LF	2005	4
DE40LF	2004 – 2006	83

Total Number Potentially Affected by the Recall: 798

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:

All Cummins ISL and ISC Engines equipped with the CM850 Fuel System, shipped from Cummins between the dates of August 2003 and February 2006 require the installation of a support bracket for the high pressure fuel line.

New Flyer began installing properly modified Cummins ISL engines, into production vehicles in February of 2006.

All New Flyer production vehicles equipped with the Cummins ISL engine, and manufactured between August 2003 and March 2006 have been identified and will require this recall.

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.

On Cummins ISL and ISC engines equipped with the CM850 fuel System, the engine high pressure fuel lines, from engine high pressure pump to the engine fuel rail, are prone to failure. Failure typically occurs at or under the fuel line fitting attachments. Failure of the fuel line introduces high pressure atomized diesel fuel into the engine compartment. Fuel line pressure is typically between 18,000 and 22,000 psi.

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

Fuel line failures have been determined to be caused by prolonged vibration.

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

The introduction of high pressure atomized fuel into the engine compartment creates a risk of fire due to possible ignition when the fuel vapor comes in contact with hot surfaces.

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

(a) Fuel leakage would be visible during a maintenance inspection of engine compartment.

(b) Strong fuel odor resulting in nausea, has been reported by passengers in one case.

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

Cummins Inc.

500 Jackson Street

Columbus, Indiana 47201

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

Steve Butler – Director of Engine Certification

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.

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.

The first failure was reported in August of 2005. Failures then began occurring at multiple customers. Failures were reported to engine manufacture for analysis.

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.

Vendor developed a bracket to dampen vibration and prevent line failure. Cummins is currently conducting an internal campaign to replace lines and install brackets (Campaign C0610 – initiated on 14 Apr 06).

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

Non-remedied engines will not have a bracket supporting the high pressure fuel line. Remedied engines will have the fuel line bracket (Cummins P.N. 4937500) installed and the campaign number 0610 will be present on the engine data plate.

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.

New Flyer Production started receiving engines from our supplier, with the fuel line brackets already installed, in March of 2006.

VI. Identify the Recall Schedule

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.

Affected New Flyer customers will be notified to contact their local Cummins Distributor and arrange for Cummins campaign 0610 to be conducted as soon as possible.

VII. Furnish Recall Communications

9. 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.

NEW FLYER

9 June, 2006

<<Name>>
<<Title>>
<<Company>>
<<Address 1>>
<<Address 2>>

Re: **Recall 06V-XXX – Cummins ISL Engine High Pressure Fuel Line**

Dear **<<Name>>,**

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

New Flyer has decided that a defect which relates to motor vehicle safety exists in certain New Flyer transit vehicles. Further investigation has revealed that the following vehicles, operated by **<<Company>>** are affected:

Make: New Flyer Transit Vehicle

Model:

VIN Range (last 6 digits): **XXXXXX** to **XXXXXX**.

We regret any inconvenience which this action may cause you. However, we are concerned about your safety. The Cummins high pressure fuel line is subject to failure and requires the installation of a support bracket to prevent line failure. This includes all Cummins ISL and ISC engines equipped with the CM850 fuel system and manufactured between August of 2003 and February of 2006.

Failure of the fuel line could introduce high pressure fuel spray into the engine compartment which may ignite when contacting hot surfaces.

For specific information or assistance with regards to this defect, contact your Local Cummins Dealer (refer to Cummins campaign code c0610), your Regional Product Support Manager **<<RPSM>>** or New Flyer Customer Services at (204) 934-4874. If you no longer own this vehicle, please inform us when you call.

Federal regulations require that any vehicle lessor receiving this notice, must forward a copy of this notice to the lessee within ten days.

Headquarters/ Winnipeg Facility
711 Kernaghan Ave.
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R3C 3T4 Canada
Ph: (204) 224-1251
Fx: (204) 224-0551
e-mail: buses@newflyer.com

Customer Services
25 DeBaets St.
Winnipeg, Manitoba
R2J 4G5 Canada
Ph: (204) 982-8400

Winnipeg Service Support Center
111 Elan Blvd.
Winnipeg, Manitoba
R2J 4H1 Canada
Ph: (204) 982-9128
Fx: (204) 233-4857

New Jersey Service Support Center
808 Garfield Ave.
Jersey City, New Jersey
07305-4423 USA
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Fx: (201) 369-0345

New Product Development
Unit 7, 45 Beghin Ave.
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Fx: (204) 654-4941

Crookston Facility
214 5th Ave. SW
Crookston, Minnesota
56716 USA
Ph: (218) 281-5752
Fx: (218) 281-5672

St. Cloud Facility
6200 Glenn Carlson Dr.
St. Cloud, Minnesota
56301 USA
Ph: (320) 203-0576
Fx: (320) 203-0584

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This recall is being declared and tracked by New Flyer Ind. All parts and labor required to accomplish this repair will be done in accordance with Cummins Campaign Instruction c0610, will be provided by your local Cummins dealer.

Upon completion of the bracket installation, the code "0610" should be visible on the engine data plate.

If you had this repair performed 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. For more information please contact your local Cummins dealer

If there is a failure to remedy this defect without charge and within a reasonable time, you may submit a written compliant to:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, SW
Washington, DC, 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 .

Thank you for your attention to this important matter.

Sincerely,

Kerry Legg
Safety and Compliance Manager
New Flyer Customer Service Support

cc: **<<RPSM>>**, Joe Funari, Hans Peper, Cliff Murray, Don Bean, Scott Halbesma.

CUMMINS FIELD CAMPAIGN

Please Deliver TO: Service Managers and Warranty Decision Makers

FROM: Cummins Customer Assurance Communications

Subject: ISC/ISL CM850 Fuel Line Bracket

Number: C0610 **Date:** 14-Apr-2006

Expires: 28-Feb-2008 (U.S./Canada)
31-Dec-9999 (International)

Attention: U.S./Canada Distributors/Branch and Division/Regional Offices
U.S./Canada Warranty Dealers

If additional information is required, contact your Cummins Warranty Operations Group Leader.

DESCRIPTION: This campaign is being released to address a fuel line breakage issue on ISC/ISL transit bus engines.This campaign authorizes the field to install a fuel line bracket on ISC/L CM850 engines in transit bus applications (see attached ESN list). The bracket was designed to reduce fuel line stress.

ACTION:

In order to qualify for repair under this Campaign, an engine:

1. **must** be within new engine warranty or CAP coverage, AND
2. **must** be an ISC with CM850 or ISL with CM850 engine installed in a transit bus application, AND
3. **must** be indentified in the ESN listing found in Attachment A, AND
4. data plate **must not** be stamped 0610.

After verifying the engine meets the qualifying criteria, use the following instructions to upfit the engine with bracket, Part Number 4937500. A new fuel line **must** be installed when installing the bracket.

1. Remove the high pressure fuel line between the injection pump and high pressure common rail.
2. Install a new fuel line and the bracket included with kit, Part Number 4937500. Refer to the Troubleshooting and Repair Manual, ISC and ISL Engines, Bulletin 4021418.
3. Stamp the engine data plate 0610 to show completion of this Campaign.
4. File a claim with parts and labor for the repair.

MATERIAL DISPOSITION: Materials removed **must** be scrapped.

REIMBURSEMENTS:

Parts:

Part Number	Description
3964144	Injector Fuel Tube
4955367	Kit

NOTE: Access SRTs, which are sufficiently explained in the narrative, may also be claimed on this TRP pre-work campaign.

Labor using applicable Access Code and Time:

SRTs to gain access that are required to complete the repair, that are sufficiently explained in the claim narrative, may also be claimed on this Campaign.

SRT Code	Description	Time
19-101	Administrative Time	
06-166	Fuel Line, Remove and Install	
99-999	Fuel Line Bracket, Install	0.4

Travel: Travel is covered under this Campaign, however, towing is **not** covered.

Other Claimables: Consumables are **not** covered under this repair.

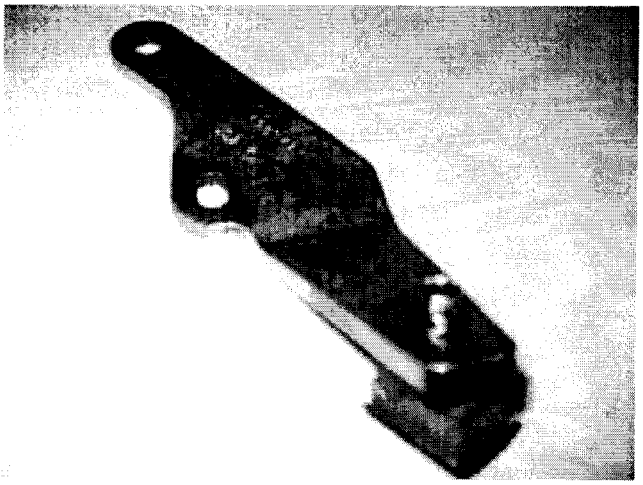
CLAIM INSTRUCTIONS: *If applicable, this Campaign is eligible to be filed via* ***RAPID***SERVE™ Web.

CLAIM CODES:

Account Code: 65
Pay Code: ..... Distributor = X
Pay Code: ..... Dealer = D
Failure Code: ..... WFLRSB

Attachment A

Upfit this bracket on the high pressure fuel line that supplies the rail with fuel from the high-pressure pump on C- and L-Series engines equipped with the CM850 Fuel System.



Bracket Kit Part # 4937500

A new fuel line must be installed when installing the bracket.

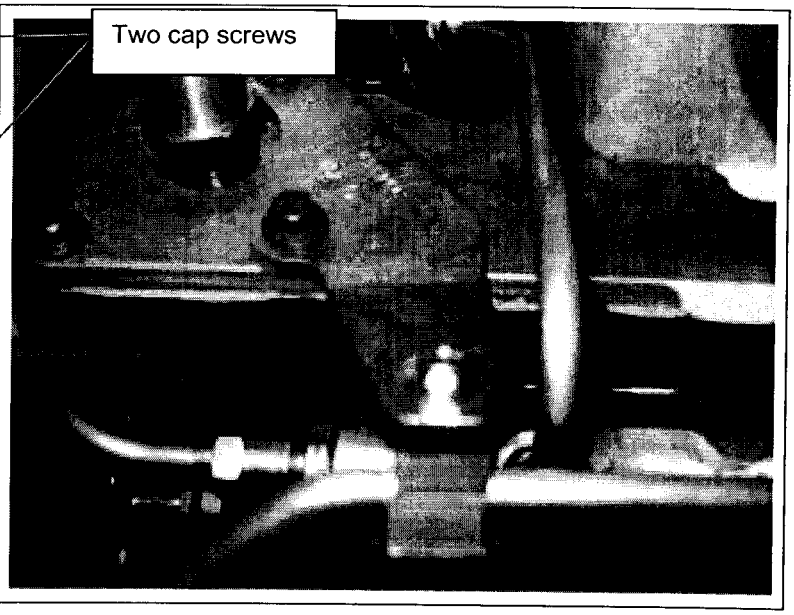
Installation Instructions

Remove the current high pressure fuel line	

Remove the two (2) cap screws on the top of the intake manifold cover plate.

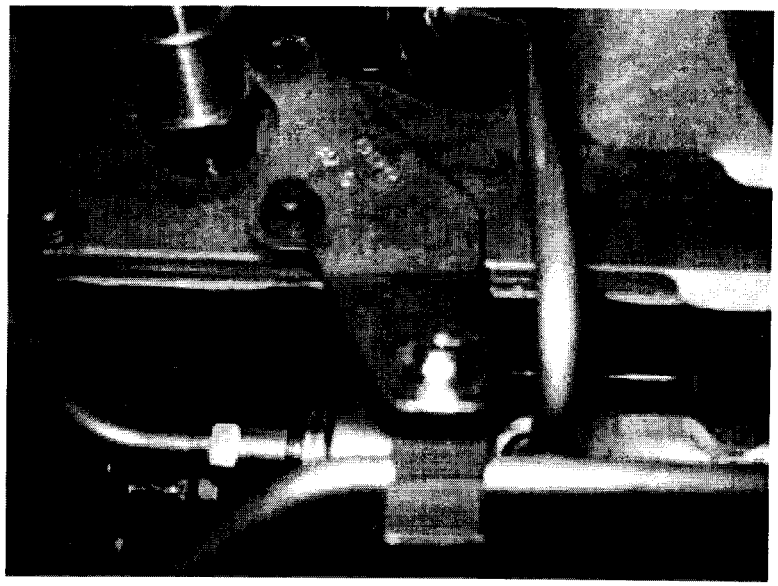
Install the bracket over the two (2) cap screw holes.

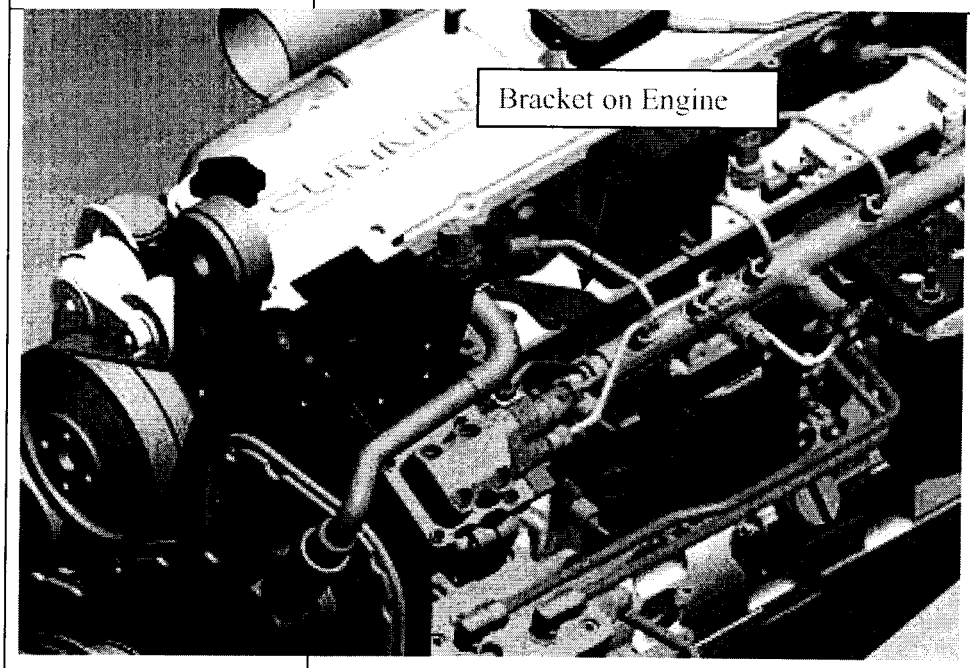
Initially, install the two capscrews finger tight.

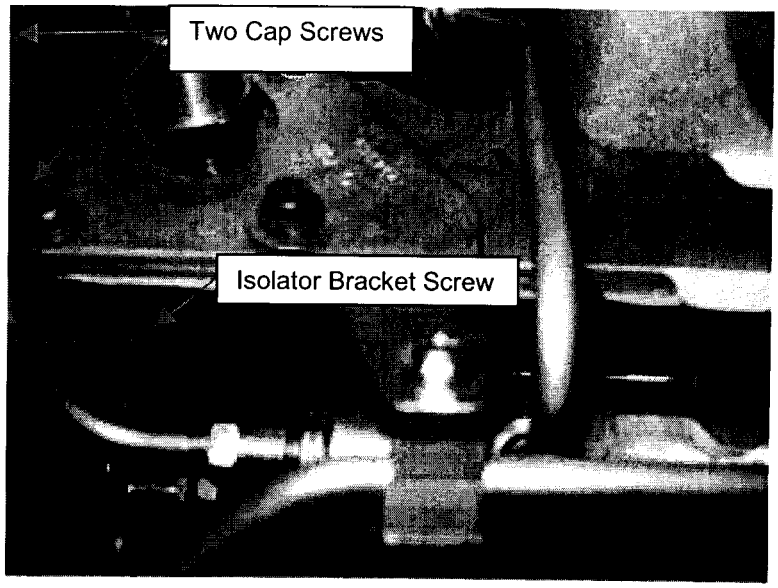


Install the fuel line finger tight between the bracket isolators.

Then, install the bracket isolator capscrew finger tight.





Tighten the bracket screws to the intake manifold cover plate. Torque Value: 24Nm [18 ft-lb]	
Tighten the isolator bracket screw. Torque Value: 9Nm [7 ft-lb]	
Start the engine and check for leaks.	

Stamp the data plate 0610 showing completion of this campaign.