

## Mazda North American Operations

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**TO:** Mazda Dealership General Managers, Service Managers, and Parts Managers

**DATE:** August 2006

**SUBJECT:** 2004-2006 RX-8 Voluntary Emission Recall Campaign 4206F

Dear Mazda Dealer:

Mazda Motor Corporation has decided to conduct an Emission Recall Campaign to reprogram the Powertrain Control Module (PCM) and replace the spark plugs on certain 2004-2006 RX-8 vehicles produced from April 10, 2003 through June 1, 2006.

Due to PCM software calibration issues, the following conditions may result:

- i) The oil-injection metering system may be inaccurate causing poor engine sealing of the combustion chambers resulting in drivability or emissions problems.
- ii) Too much fuel may be injected at the time of engine start causing carbon to be deposited on spark plugs or plugs may be flooded, causing a difficult start condition. In addition, the catalytic converter may be degraded on some vehicles.
- iii) (Only 2006 RX-8 vehicles are affected.) A test value indicating engine coolant temperature may be incorrectly shown on the service tool when a diagnostic function test is performed at dealership.

Owners of affected vehicles will be notified by first class mail beginning August 31, 2006.

This package contains important information about emission recall campaign 4206F:

Attachment I	Dealer Service and Parts information
Attachment II	Repair procedures
Attachment III	Owner notification letter

**Important notice:** California Department of Motor Vehicles, Vermont Department of Motor Vehicles, and the Commonwealth of Massachusetts, in conjunction with the California Air Resources Board and the Environmental Protection Agency for the State of Massachusetts and Vermont, have implemented the Registration Renewal/Recall Tie-In Program, which requires the completion of Emission Recalls prior to registration renewal. Mazda dealers must provide a *Vehicle Emission Recall – Proof of Correction Certificate* upon completion of the recall. Instruct owners to keep the certificate until needed for registration renewal.

**Failure to perform applicable recalls before delivery can result in extensive dealer fines and penalties from the Federal Government. Therefore, you must complete this recall for all affected vehicles in your inventory prior to delivery.**

To help you effectively perform this emission recall, Mazda has developed the following resources:

1. Service and Parts recall instructions follow (Attachment I), were e-mailed to your Service Department, and are also available on eMDCS and the MS3 (Mazda Service Support System) website.
2. Inspection and repair procedures follow (Attachment II), were e-mailed to your Service Department, and are also available on eMDCS and the MS3 (Mazda Service Support System) website.
3. We recommend using the enclosed report of registered owners in the dealer's area to encourage customers to come in for the recall (with recall reminder postcards, for example). Dealers may use such owner information for the sole purpose of conducting and performing this emission recall, and for no other purpose. **Using it for marketing activities is strictly prohibited and could subject your dealership to substantial fines and other penalties.** The information in this report is protected by state privacy and other applicable laws regarding disclosure of personal and/or confidential, restricted or blocked information. It is the dealer's responsibility to protect the confidentiality of owner records and prevent the release of information to other parties.

In California, privacy laws prevent the release of names and addresses on this report.

4. For technical assistance, call the Technical Assistance Hotline at (888) 832-8477.
5. For warranty questions, contact the Corporate Dealer Assistance Group at (877) 727-6626 (select option 2).

Please make certain that the appropriate personnel in your dealership are aware of these resources and are familiar with the details of this recall before responding to customer inquiries. If you have any questions, please contact your region manager or DCSM.

As a reminder, owners may request information about their eligibility for a rental car under the Mazda Driver's Assurance Plan. Rental car reimbursements are available only vehicles 2001 or newer and within the mileage and time limitations under the Mazda New Vehicle Limited Warranty as stated in the Rental Car Reimbursement Program, Policy 12.0.

We apologize for any inconvenience this recall may cause you and your customers. Your understanding and support in carrying out this campaign is greatly appreciated.

Sincerely,

Michael J. Giblin  
Director, Technical Services  
Mazda North American Operations

## ATTACHMENT I – DEALER INFORMATION

### CONDITION OF CONCERN

Due to PCM software calibration issues, the following conditions may result:

- i) The oil-injection metering system may be inaccurate causing poor engine sealing of the combustion chambers resulting in drivability or emissions problems.
- ii) Too much fuel may be injected at the time of engine start causing carbon to be deposited on spark plugs or plugs may be flooded, causing a difficult start condition. In addition, the catalytic converter may be degraded on some vehicles.
- iii) (Only 2006 RX-8 vehicles are affected.) A test value indicating engine coolant temperature may be incorrectly shown on the service tool when a diagnostic function test is performed at dealership.

### SUBJECT VEHICLES

Model	VIN Range	Build Date Range
2004-2006 RX-8	JM1 FE17** 40 100053 – 140891 JM1 FE17** 50 140892 – 161178 JM1 FE17** 60 200012 – 206995	April 10, 2003 through June 1, 2006

### OWNER NOTIFICATION

Mazda will notify owners by first class mail beginning August 31, 2006.

### PARTS INFORMATION

Description	Part Number	Quantity	Note
Spark Plug	N3Z4-18-110	2	Leading side
Catalytic Converter Kit	N3Y1-20-SA0	1	Includes: (1) N3H4-20-55XL catalytic converter (1) N3H1-40-305 gasket (3) 9YB1-01-004 nuts
Short Engine (for A/T)	K008-99-008R-54	1	When necessary
Short Engine (for M/T)	K008-99-008R-55	1	When necessary
Campaign Label	9999-95-065A-00	1= sheet of 18 labels	MStore (no charge)
Vehicle Emission Recall – Proof of Correction Certificate*	9999-95-ERPC-99	1=25 certificates	MStore (no charge)

\* *Important notice:* California Department of Motor Vehicles, Vermont Department of Motor Vehicles, and the Commonwealth of Massachusetts, in conjunction with the California Air Resources Board and the Environmental Protection Agency for the State of Massachusetts and Vermont, have implemented the Registration Renewal/Recall Tie-In Program, which requires the completion of Emission Recalls prior to registration renewal. Mazda dealers must provide customers with a *Vehicle Emission Recall - Proof of Correction Certificate* upon completion of the recall.

### PARTS ORDERING

Use MStore to order additional Campaign labels (1 = sheet of 18 labels) and Vehicle Emission Recall – Proof of Correction certificates (1=25 certificates).

## WARRANTY CLAIM PROCESSING INFORMATION

### RECALL

	PCM Reprogramming Only	PCM Reprogramming & Spark Plugs Replacement *
Warranty Type Code	R	R
Symptom Code	99	99
Damage Code	99	99
Process Number	<b>A0634A</b>	<b>A0634A</b>
Part Number Main Cause	7777-18-019	7777-18-019
Quantity	0	0
Related Part Number	--	N3Z4-18-110
Quantity	--	2
Labor Operation Code	XXB390R1	XXB390R2
Labor Hours	0.3	0.7

\* Dealer in stock vehicle not applicable to this procedure. Spark plug replacement to be preformed at FQI.

### ENGINE DISGNOSTIC TESTING

	Diagnostic Test #1	Diagnostic Test #2 with Engine Vacuum Check
Warranty Type Code	R	R
Symptom Code	99	99
Damage Code	99	99
Process Number	<b>A0634B</b>	<b>A0634B</b>
Part Number Main Cause	5555-06-028A	5555-06-028A
Quantity	0	0
Labor Operation Code	XXB391R1	XXB391R3
Labor Hours	0.5	1.1 (Max)

### CATALYTIC CONVERTER

	Catalytic Converter Inspection Only	Catalytic Converter Inspection & Replacement
Warranty Type Code	R	R
Symptom Code	99	99
Damage Code	99	99
Process Number	<b>A0635A</b>	<b>A0635A</b>
Part Number Main Cause	N3Y1-20-SA0	N3Y1-20-SA0
Quantity	0	1
Labor Operation Code	XXB392R1	XXB392R2
Labor Hours	0.3	0.8

## RENTAL CAR

A rental car may be provided to the customer if eligible based on the terms and conditions of the Rental Car Reimbursement Program, policy 12.0. Rental car reimbursements are available only on 2001 and newer vehicles within the mileage and time limitations under the New Vehicle Limited Warranty. If the customer was placed in a rental car while the campaign was being completed, submit a separate **claim/problem** using the standard rental claim information.

Warranty Type Code	A
Symptom Code	99
Damage Code	99
Part Number Main Cause	5555-RE-NTAL
Part Quantity	0
Labor Operation Code	MM012XRX
Labor Hours	0.0
Sublet – Rental Car	
Sublet Invoice Number	Number from Rental Invoice or Dealer Purchase Order
Sublet Type Code	Enter "L"
Sublet Amount	Up to \$30.00 per day for the number of days customer had rental car

Rental expenses exceeding the two-day limit will require prior DCSM Authorization, as outlined in the Rental Car Reimbursement Program policy.

## VERIFY THE VEHICLE NEEDS THE RECALL

1. Verify the vehicle is within the following ranges:

Model	VIN Range	Build Date Range
2004-2006 RX-8	JM1 FE17** 40 100053 – 140891 JM1 FE17** 50 140892 – 161178 JM1 FE17** 60 200012 – 206995	April 10, 2003 through June 1, 2006

If the vehicle is within the above ranges, go to step 2.

If vehicle is not within the above ranges, return it to inventory or the customer.

2. Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect vehicle for Campaign Label RECALL 4206F attached to the vehicle's hood or bulkhead.

**eMDCS System - Vehicle Status Inquiry Results**

If eMDCS displays:	Campaign Label is:	Action to perform:
RECALL 4206F OPEN	Present	Contact the Mazda Corporate Dealer Assistance Group at (877) 727-6626 to update vehicle history
	Not present	Proceed to "REPAIR PROCEDURE"
RECALL 4206F CLOSED	Present	Return vehicle to inventory or customer
	Not present	Complete a label and apply to vehicle's hood or bulkhead
RECALL 4206F is not displayed	Does not apply	Recall does not apply to this vehicle. Return vehicle to inventory or customer

**Note:** Verify the recall number as the vehicle may have multiple labels.

**REPAIR PROCEDURES:** Please refer to Attachment II