

Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



© 2006 Mazda Motor of America, Inc.

Subject: MILKY SUBSTANCE ON OIL LEVEL GAUGE (DIPSTICK)	Bulletin No: 01-050/06
	Last Issued: 11/21/2006

BULLETIN NOTE

This bulletin supersedes the previous bulletin 01-009/05, issued 2/7/2005. The APPLICABLE MODEL(S) / VINS, DESCRIPTION, REPAIR PROCEDURE and PART(S) INFORMATION sections have been changed.

APPLICABLE MODEL(S)/VINS

2004-2005 RX-8

DESCRIPTION

On some vehicles, during engine oil level check, the customer may find a milky substance sticking to the oil level gauge. When you encounter a customer complaint for this concern, explain to the customer that this milky substance does not affect engine performance or any other functions of the vehicle.

During cold weather, moisture contained in blow-by gases (exhaust, oil, fuel, water vapor) is cooled by the intermediate housing wall and condenses due to difference in temperature. The moisture reacts chemically with the engine oil in the intermediate housing and the milky substance appears. The substance eventually dissipates when engine reaches full operating temperature.

This milky substance does not affect the quality of the engine oil and engine performance is not affected. Mazda Motor Corporation has verified the amount of moisture in the oil is within the acceptable standard for motor oils commonly found in the market. Verify the coolant reservoir is full and there is no sign of engine coolant leakage.

A ventilation kit has been developed as a countermeasure to keep the milky substance off of the oil level gauge. When you encounter a customer complaint for this concern, explain to the customer that this is a normal characteristic of the rotary engine. If this characteristic presents problems for customer inspection of engine oil level, or customer does not wish to see this substance on the oil level gauge, install the ventilation kit using the following repair procedure.

REPAIR PROCEDURE

1. Remove engine and battery cover.
2. Record customer radio station presets. Disconnect negative battery cable.

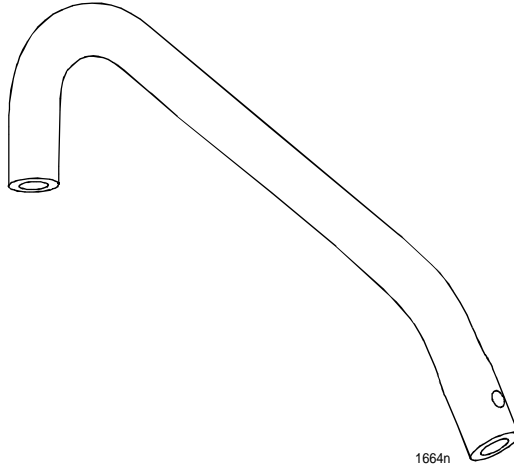
CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

3. Disconnect intake air hose from throttle body.

NOTE:

- Remove and discard the existing hose from between the intake air hose and the oil filler pipe.

**DISCARD OLD HOSE FROM
BETWEEN INTAKE AIR HOSE
AND OIL FILLER PIPE**

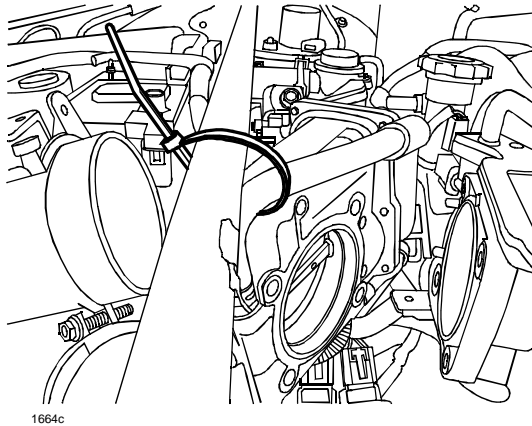


4. Remove throttle body bolts and tie-wrap throttle body to the strut tower brace.

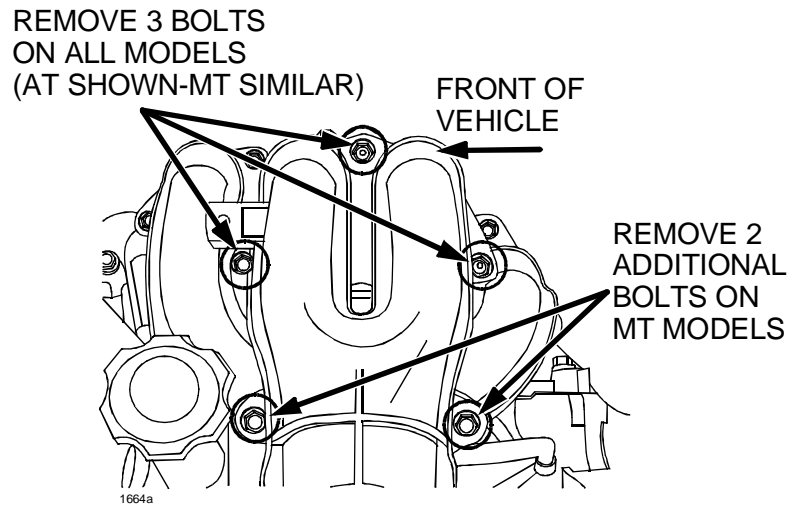
NOTE:

- DO NOT disconnect the throttle body coolant hoses.

**DO NOT DISCONNECT THROTTLE
BODY HOSES-TIE WRAP THROTTLE
BODY TO BRACE AS SHOWN**



5. Remove the extension manifold (upper) bolts from passenger side of engine.



6. Remove 2 nuts attaching oil filler pipe to engine. Remove EVAP and fuel lines from clips. Disconnect Blue EVAP line quick connector.

