

Section 01	Applicable Model/s 1999 Protege 1.6L 1999-00 Miata 1.8L	Subject RATTLING NOISE FROM ENGINE	Bulletin No. 014/00R
			Issued 10/04/00
			Revised 11/29/00

BULLETIN NOTE:

- This bulletin supersedes 01-014/00, issued 10/04/00. The majority of the bulletin has been revised.

APPLICABLE MODEL(S)/VINS

All 1999 Protege (1.6L) with VINs lower than JM1 BJ222* X0 140057.

All 1999 - 2000 Miata with (1.8L) VINs lower than JM1 NB353* Y0 155947.

DESCRIPTION

A rattling noise may be heard from the engine when depressing the clutch or when revving the engine in neutral. In extreme cases, customers may experience noise at all times. This concern can be caused by improperly machined number 4 main cap of cylinder blocks which may result in premature wear of the thrust bearing.

Customers having this concern should have their vehicle repaired using the following procedure.

REPAIR PROCEDURE

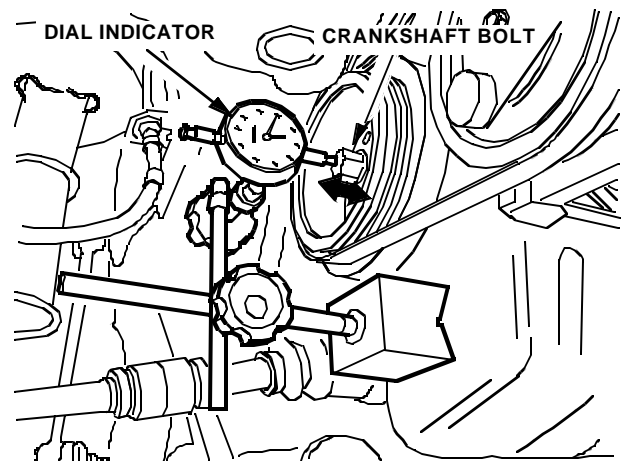
- Verify customer concern.
- Using a dial indicator, measure and record the crankshaft end play as shown (Protege). Rotate the crankshaft 180°, and again measure and record the crankshaft end play.
 - If end play is 0.3mm or more, proceed to STEP 3.
 - If end play is still less than 0.3mm, refer to the Workshop Manual for further diagnostics.
- Replace the applicable part per the Workshop Manual:
 - Protege - Short Engine
 - Miata - Partial Engine

Note

- Completely clean any parts that will be reused.

- Verify the repair.

**CHECKING CRANKSHAFT END PLAY
(PROTEGE SHOWN)**



PART(S) INFORMATION

Part Number	Description	Qty.	Notes
ZM01-02-200	Engine, Short	1	Protege
BP4W-02-300A	Engine, Partial	1	Miata (Federal)
BP4Y-02-300A	Engine, Partial	1	Miata (California)

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." Consumers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, consumers should contact their nearest authorized Mazda dealership.

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WARRANTY INFORMATION

Note

- This information applies to verified customer complaints on vehicles covered under normal warranty. Refer to the SRT microfiche for warranty term information.

Warranty Type	A
Symptom Code	82
Damage Code	9M
Part Number Main Cause	See PART(S) INFORMATION
Quantity	1
Operation Number / Labor Hours	B0102XRX / 11.2 (Protege) B0103XRX / 7.2 (Miata M/T) B0103XRX / 8.0 (Miata A/T)