

Category B (01)	Applicable Model/s 1999 Protege 1.6L 1999 Miata 1.8L	Subject RATTLING NOISE FROM ENGINE	Bulletin No. 002/99 Issued 04/08/99 Revised
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APPLICABLE MODEL(S)/VINS

- All 1999 Protege (1.6L) with VINs lower than JM1 BJ222* X0 140057.
- All 1999 Miata with (1.8L) VINs lower than JM1 NB353* X0 126468.

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.

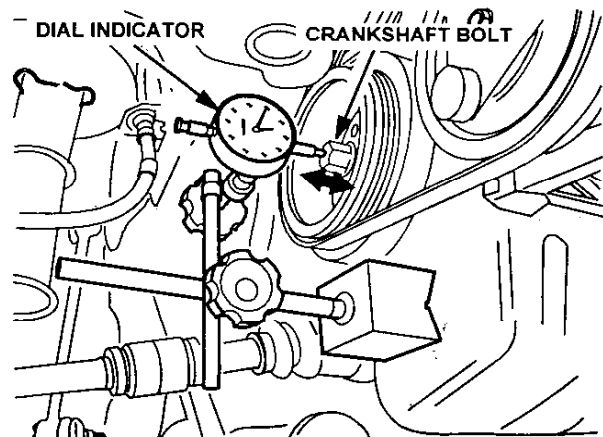
REPAIR PROCEDURE

1. Verify customer concern.
2. 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 STEP3.
If end play is still less than 0.3mm, refer to the Workshop Manual for further diagnostics.
3. Replace the applicable part per the Workshop Manual:
 - Protege - Short Engine
 - Miata - Partial Engine

Note

- Completely clean any parts that will be reused.

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



4. Verify the repair.

PART(S) INFORMATION

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

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.