

<b>Subject:</b>  <b>RATTLE NOISE FROM TURBOCHARGER WASTEGATE ACTUATOR ARM DURING ACCELERATION AND IDLING</b>	<b>Bulletin No.:</b> 01-013/24
	<b>Last Issued :</b> 12/11/2024

## BULLETIN NOTES

### APPLICABLE MODEL(S)/VINS

2024 CX-50 (2.5L Turbo) with VINS 7MMVA\*\*\*\*\*202832 to 244889 (produced between February 24, 2024 and July 23, 2024)

## DESCRIPTION

Some customers may complain about a rattle noise coming from the engine compartment when accelerating or idling. This may be caused by play at the turbocharger wastegate pivot arm creating a rattle-type noise. To eliminate this concern, a wave washer has been added.

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

## REPAIR PROCEDURE

1. Verify the customer's concern.
2. Replace the turbocharger wastegate valve spring as follows.
  - a. Disconnect the exhaust and remove the propeller shaft (See PROPELLER SHAFT REMOVAL/INSTALLATION).  
**NOTE:** Place rags over the catalytic converter, PTO, and around the work area in case the E clip or spring washer is dropped.
  - b. While reaching between the engine and subframe, carefully insert and twist a small flat-blade screwdriver between the E clip and pivot to remove the E clip (using a rag to catch the E clip when it detaches from the pivot).

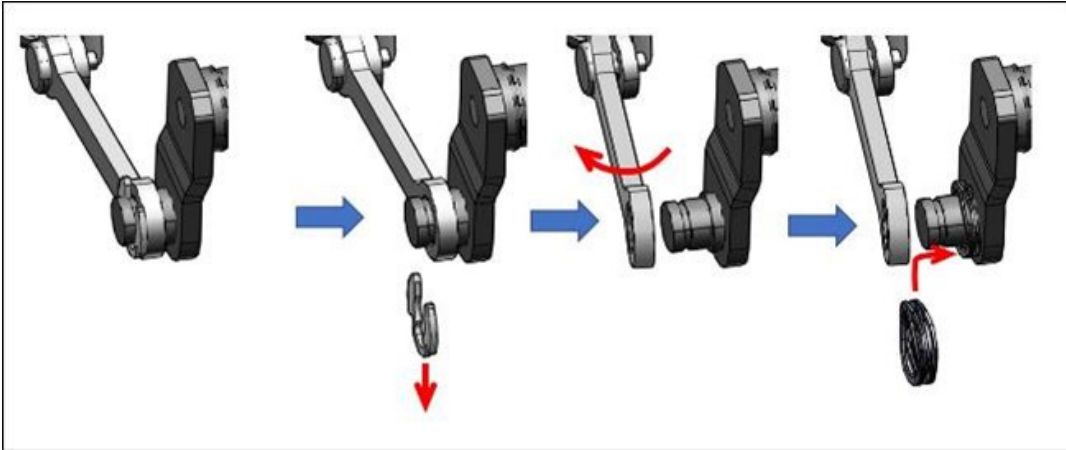


- c. Gently lower the wastegate actuator pivot rod from the wastegate pivot.

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d. Install the new spring washer over the step on the pivot.

**NOTE:** A temporary small dab of grease can help hold the wave washer into position.



e. Install the wastegate actuator arm onto the pivot.

f. While gently depressing the spring washer, carefully install the new E clip into the pivot arm groove.

g. Using pliers, squeeze the E clip until it is fully seated in the pivot groove.

h. Clean the grease used to hold the spring washer in place on step d with a non-residue parts cleaner.

i. Reassemble in reverse order.

3. Verify the repair.

#### PARTS INFORMATION

Parts Number	Description	Qty.	Notes
PX4P-13-Z52	Washer Spring	1	
PX4P-13-Z42	Ring-E	1	[R]
9994-61-000	Nut	4	[R]
PE23-40-305	Gasket	2	[R]

[R]: Replacement parts

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**WARRANTY INFORMATION****NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's Powertrain Warranty.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	82
Damage Code	97
Part Number Main Cause	7777-SP-Y52
Quantity	0
Operation Number / Labor Hours:	XXWSSARX / 1.4 Hrs. (with i-stop)

**NOTE:** Claim all parts as related parts.

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