

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922

**Subject:**

**ROUGH IDLE AND/OR MIL ON WITH DTC P0300, P0301, P0302, P0303  
OR P0304 IN COLD TEMPERATURE**

**Bulletin No.:** 01-007/19

**Last Issued:** 01/24/2019

## BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below: The changes are noted in Red.

Previous TSBs:	Date(s) Issued:
01-006/18	03/09/2018
01-002/17	01/13/2017 and 03/02/2017
01-011/16	04/15/2016 and 06/20/2016

## APPLICABLE MODEL(S)/VINS

2014-2018 Mazda3

2014-2017 Mazda6

2016-2019 CX-3

2013-2019 CX-5

## DESCRIPTION

When the engine is started for the first time after parking the vehicle overnight in cold conditions (below 32 degrees Fahrenheit / 0 degrees Celsius), some vehicles may exhibit a rough idle and/or the check engine light on with any of the following DTC(s) stored in memory.

- P0300 - Random misfire detected
- P0301 - Cylinder No.1 misfire detected
- P0302 - Cylinder No.2 misfire detected
- P0303 - Cylinder No.3 misfire detected
- P0304 - Cylinder No.4 misfire detected

This may be caused by frozen water accumulated in the main silencer, restricting exhaust flow.

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

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## REPAIR PROCEDURE

1. Verify customer concern of water accumulated and frozen in the main silencer and the tail pipe. **NOTE:** Review and verify the data listed below to determine if the conditions where present when the DTC and symptom where set. If the vehicle has been driven or if the ambient temperature is over 32F (0 C) and the water frozen inside the silencer may have melted away.

- Freeze frame data "IAT" (Intake Air Temperature) is below 32 F (0 C).
- Average drive time is less than 30 minutes (or less than 18 miles (10km)).
- Vehicle was parked outside in freezing conditions before driving.

Are the conditions above present?

- If Yes, proceed to next step.
- If No, this TSB does not apply.

2. Replace the main silencer according to the instructions on MGSS online:

- Mazda3 - EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5]
- Mazda6 - EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5]
- CX-3 - EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.0]
- 2013-2016 CX-5 - EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]
- 2017-2019 CX-5- EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]
- 2017-2019 CX-5 - EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]

**NOTE:** The modified service parts have two (2) drain holes at the bottom of the main silencer.

3. Inspect the engine oil level.

- If the engine oil level is above the F mark, replace the engine oil.

4. Erase any stored DTC(s).

5. Verify repair.

**PARTS INFORMATION**

Part Number	Description	Qty.	Notes
PEY7-40-100	SILENCER ASSY-MAIN	1	(Japan built) Mazda3 4-Door
PEY8-40-100	SILENCER ASSY-MAIN	1	(Japan built) Mazda3 5-Door
PEY9-40-100	SILENCER ASSY-MAIN	1	(Mexico built) Mazda3 4-Door
PEZ1-40-100	SILENCER ASSY-MAIN	1	(Mexico built) Mazda3 5-Door
PYY3-40-100	SILENCER ASSY-MAIN	1	Mazda6
PEZ2-40-100	SILENCER ASSY-MAIN	1	2016-2019 CX-3 2WD
PEZ3-40-100	SILENCER ASSY-MAIN	1	2016-2019 CX-3 4WD
PEY6-40-100	SILENCER ASSY-MAIN	1	2013-2016 CX-5 2.0L
PYY1-40-100	SILENCER ASSY-MAIN	1	2013-2016 CX-5 2.5L 2WD
PYY2-40-100	SILENCER ASSY-MAIN	1	2013-2016 CX-5 2.5L 4WD
PEZ4-40-100	SILENCER ASSY-MAIN	1	2017-2019 CX-5 2.0L 2WD
PYY4-40-100	SILENCER ASSY-MAIN	1	2017-2019 CX-5 2.5L 2WD
PYY5-40-100	SILENCER ASSY-MAIN	1	2017-2019 CX-5 4WD
PE23-40-305	GASKET-EXH PIPE	1	---
9994-61-000	NUT-SELFLOCK	2	---

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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 New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

	Replace Main Silencer	Replace Main Silencer and Engine Oil
Warranty Type	A	
Symptom Code	03	
Damage Code	9W	
Diagnostic Trouble Code (DTC)	P0300, P0301, P0302, P0303, or P0304	
Part Number Main Cause	****-40-100	
Quantity	1	
Operation Number / Labor Hours:	XXM1GARX / 0.4 Hrs.	XXM1GBRX / 0.6 Hrs.

### NOTE:

- Warranty claim submission will require entry of a valid DTC.
- Attach the IDS session file with FFD and Mode 6 to the RO