

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922

**Subject:**

**ACTIVE AIR SHUTTER IS WORKING AND DTC P05A0:00 IS STORED**

**Bulletin No.: 01-009/21**

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## BULLETIN NOTES

### APPLICABLE MODEL(S)/VINS

2019-2020 Mazda3 (Japan built) US spec (2.5L with cylinder deactivation) with VINS lower than JM1BP\*\*M\*\*\*176406 (produced before April 3, 2020)

2019-2021 Mazda3 (Mexico built) US spec (2.5L with cylinder deactivation) with VINS lower than 3MZBP\*\*M\*\*\*208288 (produced before October 30, 2020)

2020-2021 CX-30 US spec (2.5L with cylinder deactivation) with VINS lower than 3MVDM\*\*M\*\*\*231002 (produced before November 12, 2020)

## DESCRIPTION

Some vehicles may exhibit that the active air shutter is working, but DTC P05A0:00 (Active air shutter: Opening angle abnormality (sticking)) is stored in memory.

This is caused by improper control software of the PCM detecting the DTC immediately without performing the failsafe operation. When the active air shutter detects unusual torque, it is designed to repeat the open/close cycles up to three times as a failsafe to try to remove the objects which temporarily disturbed the movement. To correct this concern, the control software of the PCM has been modified.

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

## REPAIR PROCEDURE

1. Verify customer concern.

**NOTE:** If nothing is found disturbing the movement of the active air shutter, the DTC most likely was caused by an incoming object which temporally disturbed the movement. DO NOT replace the active air shutter.

2. Reprogram the PCM with the Mazda Modular Diagnostic System (M-MDS), using the Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.

- If the current calibration file name in the ECU FILENAME screen is the same as shown in the Calibration Files Information or with a later suffix, reprogramming is not necessary.
- After the reprogramming, pending DTC P2610:00 [PCM] may be stored without the CHECK ENGINE light ON. Since this DTC may turn to a current DTC depending on operations after the reprogramming, clear DTC after all repair work done.
- If DTC U2120:00 or/and U2500:82 are stored and i-ACTIVSENSE warning light (amber) turns on after the reprogramming, refer to SA-043/20.
- If the Welcome Lamp function is accidentally activated while using MDARS, it may also cause this concern. Check and correct as necessary. Refer to the SA-054/20 for details.

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3. Clear the DTC, turn the ignition off, and get out of the vehicle.
4. Close and lock the door.
5. Wait for at least ten minutes.
6. Verify the repair by starting the engine and making sure the Check Engine light is OFF and no abnormal warning lights are ON.

**NOTE:** If any DTC should remain after performing a DTC erase, diagnose the DTC according to the instructions on MGSS.

## CALIBRATION

### Mazda3

Japan built

Engine	Trans- mission	Drive	File Name	Note
2.5L with cylinder deactivation	AT	2WD	PX05-188K2-N	Mitsubishi
			PX06-188K2-N	Denso
		4WD	PX07-188K2-R	Mitsubishi
			PX08-188K2-R	Denso
	MT	2WD	PX58-188K2-M	Mitsubishi
			PX59-188K2-M	Denso

Mexico built

Engine	Trans- mission	Drive	File Name	Note
2.5L with cylinder deactivation	AT	2WD	PX13-188K2-H	Mitsubishi
			PX14-188K2-H	Denso
		4WD	PX15-188K2-H	Mitsubishi
			PX16-188K2-H	Denso

### CX-30

Engine	Trans- mission	Drive	File Name	Note
2.5L with cylinder deactivation	AT	2WD	PXH7-188K2-F	Mitsubishi
			PXH8-188K2-F	Denso
		4WD	PXJ9-188K2-F	Mitsubishi
			PXK1-188K2-F	Denso

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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 Federal Emission Warranty or CA Emission Warranty (short term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	5555-18-881
Quantity	0
Operation Number / Labor Hours:	XXS7AXFX / 0.3 Hrs.

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