

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: A/C BLOWS WARM AIR AFTER ACCELERATION AND/OR AT AMBIENT TEMPERATURE OF AROUND 68 °F (20 °C) IN DAYTIME	Bulletin No.: 07-004/22
	Last Issued : 10/10/2022

BULLETIN NOTES

Previous TSBs:	Date(s) Issued:
07-004/22	09/23/22
07-006/20	12/07/20

APPLICABLE MODEL(S)/VINS

2019-2022 Mazda3 (Japan built) with VINS lower than JM1BP*****516941 (produced before March 1, 2022)

2019-2022 Mazda3 (Mexico built) with VINS lower than 3MZBP*****302558 (produced before February 27, 2022)

2020-2022 CX-30 with VINS lower than 3MVDM*****414338 (produced before February 27, 2022)

NOTE: To identify vehicles with cylinder deactivation, examine the 8th digit of the VIN.

- L: 2.5L without cylinder deactivation
- M: 2.5L with cylinder deactivation

DESCRIPTION

Some customers may complain the A/C blows warm. This may be caused by one of two things.

- **Cause 1:** After accelerating in hot weather, the A/C blows warm air for a longer time than other models. This is caused by improper control software of the PCM not allowing the A/C compressor to resume properly after acceleration. During a hard acceleration above a certain throttle level opening, the PCM stops the A/C compressor operation for better acceleration. It then resumes the compressor operation after the acceleration. To eliminate this concern, the control software of the PCM has been modified.
- **Cause 2:** Insufficient cooling performance at ambient temperature of around 68 °F (20 °C) in daytime. This is caused when both the ambient temperature and the cabin temperature are at around 20 °C (68 °F), auto A/C set at around 20 °C (68 °F) may not cool down the cabin temperature properly. To eliminate this concern, control software of the dash-electrical supply unit (Dash-ESU) has been modified.

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

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

REPAIR PROCEDURE

1. Verify customer concern.
2. Perform one or both of the following reprogramming procedures, depending on the VIN and production date.
 - Reprogram the PCM for the following vehicles (for Cause 1). Refer to MDARS ECU Reprogramming Procedure.
 - 2019-2021 Mazda3 (Japan built) with VINS lower than JM1BP*****319059 (produced before October 28, 2020)
 - 2019-2021 Mazda3 (Mexico built) with VINS lower than 3MZBP*****208291 (produced before October 30, 2020)
 - 2020-2021 CX-30 with VINS lower than 3MVDM*****231004 (produced before November 13, 2020)
 - Reprogram the ESU for the following vehicles (for Cause 2). Refer to MDARS ECU Reprogramming Procedure.
 - 2019-2022 Mazda3 (Japan built) with VINS lower than JM1BP*****516941 (produced before March 1, 2022)
 - 2019-2022 Mazda3 (Mexico built) with VINS lower than 3MZBP*****302558 (produced before February 27, 2022)
 - 2020-2022 CX-30 with VINS lower than 3MVDM*****414338 (produced before February 27, 2022)

NOTE:

- 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 reprogramming, pending DTC P2610:00 [PCM] will be stored without the Check Engine Light ON. Start the engine and clear the DTC.
 - If DTC U2120:00 or/and U2500:82 are stored and i-ACTIVSENSE warning light (amber) turns on after the reprogramming, refer to SA-036/19.
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.

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical--including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

CALIBRATION**For ESU**

File Name

BDGF-66S11-M

For PCM**2019-2021 US / 2019-2021 Canada spec.**

Mazda3 (Japan built) with VINS starting with JM1

Engine	Transmission	Drive	File Name	Note
2.0L (Canada spec.)	AT	2WD	PAH9-188K2-L	Mitsubishi
			PAJ1-188K2-M	Denso
	MT	2WD	PAJ2-188K2-K	Mitsubishi
			PAJ3-188K2-L	Denso
2.5L w/ cylinder deactivaton	AT	2WD	PX05-188K2-N	Mitsubishi
			PX06-188K2-N	Denso
		MT	4WD	PX07-188K2-R
	PX08-188K2-R			Denso
	2WD		PX58-188K2-M	Mitsubishi
		PX59-188K2-M	Denso	
2.5L w/out cylinder deactivation (Canada spec.)	AT	2WD	PXJ7-188K2-F	Mitsubishi
			PXJ8-188K2-G	Denso
		4WD	PX4V-188K2-C	Mitsubishi
			PX4W-188K2-C	Denso
	MT	2WD	PX4X-188K2-C	Mitsubishi
			PX5A-188K2-C	Denso

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Mazda3 (Mexico built) with VINS starting with 3MZ

Engine	Transmission	Drive	File Name	Note
2.0L (Canada spec.)	AT	2WD	PAJ8-188K2-G	Mitsubishi
			PAJ9-188K2-H	Denso
	MT	2WD	PAK1-188K2-F	Mitsubishi
			PAK2-188K2-G	Denso
2.5L w/ cylinder deactivation	AT	2WD	PX13-188K2-H	Mitsubishi
			PX14-188K2-H	Denso
		4WD	PX15-188K2-H	Mitsubishi
			PX16-188K2-H	Denso
2.5L w/out cylinder deactivation (Canada spec.)	AT	2WD	PXK5-188K2-E	Mitsubishi
			PXK6-188K2-F	Denso
		4WD	PX6R-188K2-C	Mitsubishi
			PX6S-188K2-C	Denso

CX-30

Engine	Transmission	Drive	File Name	Note
2.0L (Canada spec.)	AT	2WD	PA6W-188K2-F	Mitsubishi
			PA6X-188K2-F	Denso
		4WD	PA7G-188K2-F	Mitsubishi
			PA7H-188K2-F	Denso
	MT	2WD	PA6T-188K2-F	Mitsubishi
			PA6V-188K2-F	Denso
2.5L w/ cylinder deactivation	AT	2WD	PXH7-188K2-F	Mitsubishi
			PXH8-188K2-F	Denso
		4WD	PXJ9-188K2-F	Mitsubishi
			PXK1-188K2-F	Denso
2.5L w/out cylinder deactivation (Canada spec.)	AT	2WD	PXM1-188K2-F	Mitsubishi
			PXL4-188K2-F	Denso
		4WD	PXM2-188K2-F	Mitsubishi
			PXL5-188K2-F	Denso

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical--including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Mexico spec.

Mazda3 (Japan built) with VINS starting with JM1

Engine	Transmission	Drive	File Name	Note
2.0L	AT	2WD	PAJ4-188K2-K	Mitsubishi
			PAJ5-188K2-L	Denso
	MT	2WD	PAJ6-188K2-K	Mitsubishi
			PAJ7-188K2-L	Denso
2.5L	AT	2WD	PX09-188K2-K	Mitsubishi
			PX10-188K2-L	Denso
	MT	2WD	PX11-188K2-K	Mitsubishi
			PX12-188K2-L	Denso

Mazda3 (Mexico built) with VINS starting with 3MZ

Engine	Transmission	Drive	File Name	Note
2.0L	AT	2WD	PAK3-188K2-G	Mitsubishi
			PAK4-188K2-H	Denso
	MT	2WD	PAK5-188K2-G	Mitsubishi
			PAK6-188K2-H	Denso
2.5L	AT	2WD	PX17-188K2-G	Mitsubishi
			PX18-188K2-H	Denso
	MT	2WD	PX19-188K2-G	Mitsubishi
			PX20-188K2-H	Denso

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

CX-30

Engine	Transmission	Drive	File Name	Note
2.0L	AT	2WD	PA7A-188K2-D	Mitsubishi
			PA7B-188K2-D	Denso
2.5L	AT	2WD	PXH9-188K2-D	Mitsubishi
			PXJ1-188K2-D	Denso
	AT	4WD	PXK2-188K2-B	Mitsubishi
			PXK3-188K2-B	Denso

WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	60
Damage Code	9W
Part Number Main Cause	5555-18-881
Quantity	0
Operation Number / Labor Hours:	XXS8NXFX / 0.3 Hrs. (Cause 1) XXW4CXXFX / 0.3 Hrs. (Cause 2)

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." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.