

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922



|                                                                                                  |                                |
|--------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Subject:</b><br><br><b>CHECK ENGINE LIGHT ON WITH DTCs P2096:00, P2097:00 AND/OR P0524:00</b> | <b>Bulletin No.:</b> 01-012/20 |
|                                                                                                  | <b>Last Issued:</b> 09/30/2020 |

## APPLICABLE MODEL(S)/VINS

### US (except California) / Canada Spec.(without cylinder deactivation or turbo charger)

2019 CX-3 vehicles with VINs lower than JM1DK\*\*\*\*\*460772 (produced before Sep. 10, 2019)

2018-2019 CX-5 vehicles with VINs between JM3KF\*\*\*\*\*341877 - 689724 (produced from Jan. 9, 2018 - Aug. 29, 2019)

2019 MX-5 vehicles with VINs lower than JM1ND\*\*\*\*\*310734 (produced before Aug. 29, 2019)

2019 MX-5 30th SV vehicles with VINs lower than JM1ND\*\*\*\*\*400683 (produced before Aug. 28, 2019)

2019-2020 Mazda3 (Japan built) vehicles with VINs lower than JM1BP\*\*\*\*\*147794 (produced before Jul. 1, 2019)

2019-2020 Mazda3 (Mexico built) vehicles with VINs lower than 3MZBP\*\*\*\*\*115261 (produced before Jul. 1, 2019)

2018 Mazda6 vehicles with VINs lower than JM1GL\*\*\*\*\*336710 (produced before Dec. 21, 2018)

### Puerto Rico Spec.:

2019 Mazda2 vehicles with VINs between 3MDDJ\*\*\*\*\*309487 - 316139 (produced from Nov. 1, 2018 - Jun. 13, 2019)

**NOTE:**This service bulletin is not applicable to California spec. vehicles. Refer to ("SSPC0 - CALIFORNIA REGISTERED VEHICLES DIAGNOSTIC TROUBLE CODES (DTC) CONCERN")for CA emissions vehicles registered in California.

## DESCRIPTION

Some vehicles may experience the check engine light on with DTCs P2096:00, P2097:00 and/or P0524:00 that cannot be cleared by itself, and the check engine light stays on even if the detection condition has gone.

- P2096:00 - Air fuel too lean
- P2097:00 - Air fuel too rich
- P0524:00 - Engine oil pressure too low

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This concern may be caused by improper PCM control logic. The PCM software has been modified to eliminate this concern.

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

## REPAIR PROCEDURE

1. Verify the customer concern.
2. If DTCs P2096:00, P2097:00 and/or P0524:00 are stored in PCM memory.
3. Reprogram the PCM according to:
  - CX-3, CX-5, MX-5 Mazda2 and Mazda6:IDS ECU Reprogramming Procedure
  - Mazda3: MDARS ECU Reprogramming Procedure
4. Verify the repair.

## CALIBRATION INFORMATION

### 2019 MAZDA2 (Puerto Rico Spec.)

| Transmission | File Name    |
|--------------|--------------|
| MT           | P5G9-188K2-E |
| AT           | P5H1-188K2-E |

### 2019-2020 MAZDA3 (Japan built)

| Engine | Transmission | File Name    | Note       |
|--------|--------------|--------------|------------|
| 2.0L   | MT           | PAJ2-188K2-H | Mitsubishi |
|        |              | PAJ3-188K2-J | Denso      |
|        | AT           | PAH9-188K2-H | Mitsubishi |
|        |              | PAJ1-188K2-J | Denso      |
| 2.5L   | AT           | PXJ7-188K2-C | Mitsubishi |
|        |              | PXJ8-188K2-D | Denso      |

### 2019-2020 MAZDA3 (Mexico built)

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| Engine | Transmission | File Name    | Note       |
|--------|--------------|--------------|------------|
| 2.0L   | MT           | PAK1-188K2-D | Mitsubishi |
|        |              | PAK2-188K2-E | Denso      |
|        | AT           | PAJ8-188K2-D | Mitsubishi |
|        |              | PAJ9-188K2-E | Denso      |
| 2.5L   | AT           | PXK5-188K2-B | Mitsubishi |
|        |              | PXK6-188K2-C | Denso      |

**2018 MAZDA6**

| Transmission | File Name    |
|--------------|--------------|
| MT           | PYH1-188K2-K |
| AT           | PYH2-188K2-K |

**2019 CX-3**

| Emission | Transmission | Drive | File Name    |
|----------|--------------|-------|--------------|
| FED      | MT           | 2WD   | PAD7-188K2-F |
|          | AT           | 2WD   | PAD8-188K2-F |
|          |              | 4WD   | PAD9-188K2-F |
| CALIF    | MT           | 2WD   | PA01-188K2-F |
|          | AT           | 2WD   | PA02-188K2-F |
|          |              | 4WD   | PA03-188K2-F |

**2018-2019 CX-5**

| MY   | Engine | Transmission | Drive | File Name    | Note       |
|------|--------|--------------|-------|--------------|------------|
| 2018 | 2.0L   | MT           | 2WD   | PEL1-188K2-F | Mitsubishi |
|      |        |              |       | PEL2-188K2-E | Denso      |
|      | 2.5L   | AT           | 2WD   | PYH9-188K2-G | Mitsubishi |

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|      |      |    |     |              |            |
|------|------|----|-----|--------------|------------|
| 2019 |      |    |     | PYJ1-188K2-F | Denso      |
|      |      |    | 4WD | PYJ2-188K2-G | Mitsubishi |
|      |      |    |     | PYJ3-188K2-F | Denso      |
|      | 2.0L | MT | 2WD | PAL9-188K2-D | Mitsubishi |
|      |      |    |     | PAM1-188K2-C | Denso      |
|      | 2.5L | AT | 2WD | PX46-188K2-D | Mitsubishi |
|      |      |    |     | PX47-188K2-C | Denso      |
|      |      |    | 4WD | PX48-188K2-D | Mitsubishi |
|      |      |    |     | PX49-188K2-C | Denso      |

**2019 MX-5**

| Roof     | Transmission | File Name    |
|----------|--------------|--------------|
| Soft top | MT           | PAD2-188K2-D |
|          | AT           | PAC6-188K2-D |
| RHT      | MT           | PAD4-188K2-C |
|          | AT           | PAD5-188K2-D |

**NOTE:** It is not necessary to order a replacement PCM for this repair procedure.

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

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Fed. Emission Warranty (long term).
- Additional diagnostic time cannot be claimed for this repair.

|               |    |
|---------------|----|
| Warranty Type | A  |
| Symptom Code  | 6X |

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|                                 |                     |
|---------------------------------|---------------------|
| Damage Code                     | 9W                  |
| Part Number Main Cause          | 5555-18-881         |
| Quantity                        | 0                   |
| Operation Number / Labor Hours: | XXS53XFX / 0.3 Hrs. |

**NOTE:**

- After reprogramming, be sure to keep the "Log Viewer" screen shot on M-MDS along with the repair order and warranty application sheet.
- **Mazda3 Only:** After reprogramming, be sure to keep the screen shot of the ECU FILENAME on M-MDS along with the repair order and warranty application sheet.

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