

**Subject:****CHECK ENGINE LIGHT ON WITH DTC P0171****M-Tips No.: MT-004/22****Last Issued : 12/01/2022****BULLETIN NOTES**

This M-Tip supersedes the previously issued service M-Tip(s) listed below. The changes are noted in **Red** text.

Previous M-Tips:	Date(s) Issued:
<b>MT-021/17</b>	<b>12/05/17</b>

**APPLICABLE MODEL(S)/VINS**

2012-2013 Mazda3 (SKYACTIV Models)	2014- <b>2023</b> Mazda3	2014- <b>2021</b> Mazda6	2016- <b>2021</b> CX-3
2013 - <b>2023</b> CX-5	2016- <b>2023</b> CX-9	<b>2022-2023</b> CX-30	<b>2023</b> CX-50
2016- <b>2023</b> MX-5			

**DESCRIPTION**

Some vehicles may experience the Check Engine Light ON with DTC P0171 (Fuel Trim too Lean) and possibly DTCs P030X (Misfire).

Vehicles having this concern should use the following Inspection/Repair procedure.

**REPAIR PROCEDURE****Inspection Procedure**

1. Inspect the airbox/air filter for proper fitment and repair if necessary.
2. Inspect the MAF for correct operation according to the instructions on MGSS and repair if necessary.
3. Inspect the A/F sensor for correct operation according to the instructions on MGSS and repair if necessary.
4. Inspect the Fuel Trims during normal engine idle condition.

- If fuel trims are normal after performing steps 1-3, repair is complete.
- If fuel trims remain abnormal, continue to Repair Procedure.

An editorial board comprised of MNAO service staff members generates, collects, and verifies information for this publication.

To contribute repair tip ideas, send an e-mail to [mtips@mazdausa.com](mailto:mtips@mazdausa.com). All contributions become property of MNAO, which assumes permission to publish them without further consideration.

**NOTE:**

P0171 will set while the engine is idling or the vehicle is driven and the fuel feedback correction amount reaches the upper limit ( 25 % or more) for 20 s or more.

## Repair Procedure

1. Replace the fuel injectors

2. Verify fuel trims have been corrected.

- If the Check Engine light turns on again, follow the Repair Procedure in the WSM.

An editorial board comprised of MNAO service staff members generates, collects, and verifies information for this publication.

To contribute repair tip ideas, send an e-mail to [mtips@mazdausa.com](mailto:mtips@mazdausa.com). All contributions become property of MNAO, which assumes permission to publish them without further consideration.