

# Service Information

Mazda Motor Corporation

3-1, Shinchu, Fuchu-cho, Aki-gun  
Hiroshima 730-8670, Japan  
TEL : 81(82)287-5323  
FAX : 81(82)287-5220



Category <b>F</b>	<b>Technical</b>	Ref. No. E007/18	Page 1 of 6
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued June 1, 2018	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised	
Applicable Model Mazda2 (DJ), Mazda3 (BM/BN), Mazda6 (GJ/GL), CX-3 (DK), CX-5 (KE/KF), CX-9 (TC) and MX-5 (ND) with SKYACTIV-G		Applicable Countries or Specifications  Worldwide (Except China)	

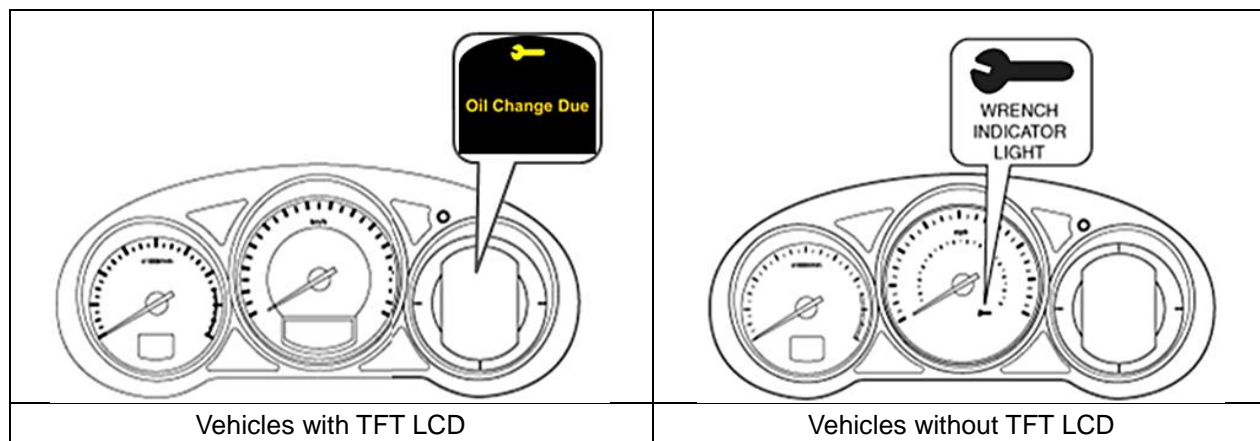
**Subject: Engine Oil Data Reset is necessary on vehicles equipped with new engine oil replacement strategy  
(Wrench indicator light on / “Oil Change Due” message with wrench mark)**

## DESCRIPTION

Some newer models with SKYACTIV-G are equipped with the function that the PCM calculates the remaining oil life.

When the PCM determines the remaining oil life becomes close to the end, the instrument cluster notifies the driver by displaying "Oil Change Due" message or illuminating the wrench indication light.

Always reset the engine oil data whenever replacing the engine oil even if no “Oil Change Due” message or indicator light is illuminated.



## NOTE:

- If this function is activated, the driver may be informed about the oil replacement becoming due earlier than the preset fixed oil maintenance period.
- If 1) this function is activated and 2) “fixed” setting interval is selected, two steps of reset procedure are required. One is to reset PCM, and the other is to reset CMU.

## Function Type and Its Applicable Model

3 variants (types) exist depending on the models and the markets.

- Type 1: The function only works when “Flexible” setting is selected.  
ENGINE OIL DATA RESET is necessary only if “Flexible” setting is selected.
- Type 2: The function always works regardless setting either “Fixed” or “Flexible”.  
ENGINE OIL DATA RESET is necessary whenever engine oil is replaced.
- Type 3: The function always works (no “Flexible” setting is available)  
ENGINE OIL DATA RESET is necessary whenever engine oil is replaced.

Model		Market				
		USA. Guam Saipan Puerto Rico	Europe (*1)	Russia Belarus	Canada	Others
Mazda2 (DJ)		Type 1	Type I	N/A		N/A
Mazda3 (BM)		Type I	Type I	N/A	N/A	N/A
Mazda3 (BN)		Type 1	Type 1	N/A	Type 3	N/A
Mazda6 (GJ)	without EPB	N/A	Type 1	N/A	N/A	N/A
	with EPB	Type 1	Type 1	N/A	N/A	N/A
Mazda6 (GL)	Except 2.5L Turbo	Type 1	Type 1	N/A	Type 3	N/A
	2.5L Turbo	Type 2			Type 3	Type 3
CX-3 (DK)		Type 1	Type 1	N/A	Type 3 (18MY or later)	N/A
CX-5 (KE)	without EPB	N/A	N/A	N/A	N/A	N/A
	with EPB	Type 1	Type I	N/A	N/A	N/A
CX-5 (KF)		Type 1	Type 1	Type 1	Type 3	N/A
CX-9 (TC)		Type 2	Type 2	Type 3	Type 3	Type 3
MX-5 (ND)		Type 1	Type 1	N/A	Type 3 (18MY or later)	N/A

(\*1) Following countries are excluded; ARMENIA, AZERBAIJAN, CANARY ISLAND, FAEROE, F.GUIANA, GEORGIA, GUADELOUPE, MARTNIQUE, MONGOLIA, MOROCCO, NEW CALEDONIA, REUNION, TURKEY  
EPB: Electric Parking Brake

## **ENGINE OIL DATA RESET Procedure**

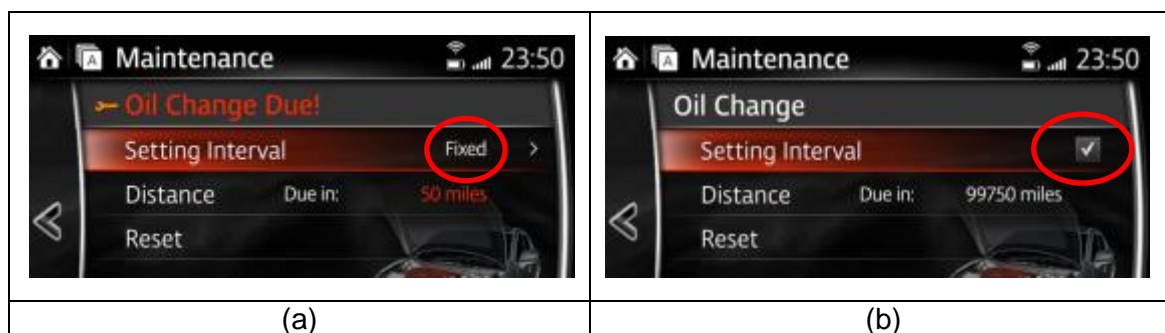
The trip meter and the average fuel economy are reset when following procedure is performed.

1. Switch the ignition ON (engine off) and change meter display to odometer.
2. Switch the ignition OFF (LOCK).
3. Press and hold the panel light control / trip meter switch with the ignition switched off, then switch the ignition ON (engine off). Keep pressing the panel light control / trip meter switch for more than 7 seconds.
4. The master warning light flashes for few seconds when the PCM engine oil data has been reset. (No flash on CX-9 (TC).)
5. If “Fixed” setting is selected, also reset CMU engine oil data on center display.

### How to check “Fixed” setting on the center display

Either of the screens shown below appears depending on the model and the market.

On the right of “Setting Interval”, if “Fixed” is shown as (a) or checked as (b), “Fixed” is selected. Use “Reset” button under “Setting Interval”.

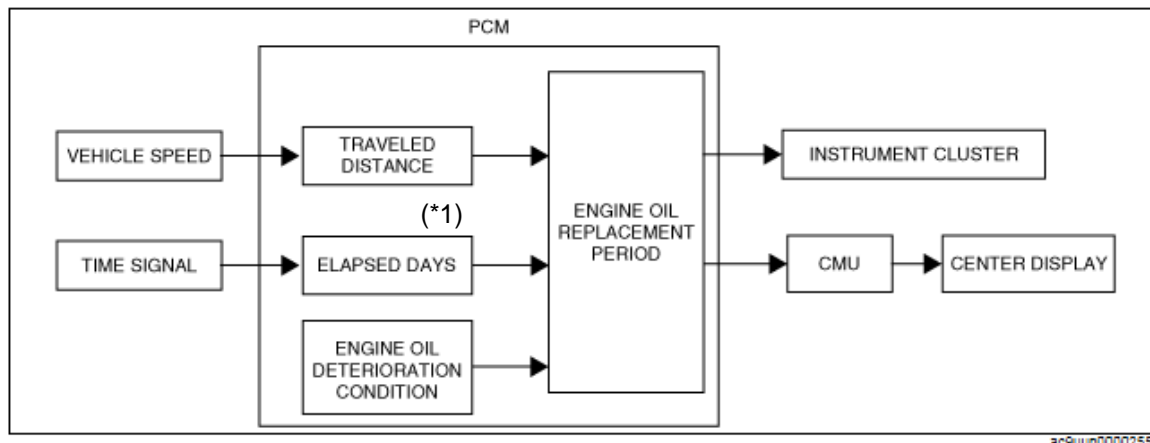


**NOTE:** When “Flexible” is selected, “Flexible” is shown on the right of “Setting Interval” or the box is not checked. In this case, “Reset” button works the same as the panel light control / trip meter switch as described above.

### **Reference 1: Oil Due Calculation Logic and Block Diagram**

The PCM monitors and counts the following elements, and notifies the driver when any of the following exceed their threshold.

- Traveled distance
- Elapsed days
- Engine oil deterioration condition



(\*1) ELAPSED DAYS counts only while the room fuse is installed.

**NOTE:** Those vehicles equipped with the oil level sensor have the low oil level notification function that works independently from the oil due calculation logic. When the sensor detects the low oil level, DTC P250F:00 is stored in memory and the Engine oil level warning light / indication turns on or shows up. The oil level detected by the PCM can be monitored as the datalogger PID: OIL\_LEVEL using Mazda Modular Diagnostic System (M-MDS).

### **Reference 2: How To Switch Flexible Setting on/off**

- Flexible setting is available for some countries / models. See table on previous page for detail.
- Flexible setting can be switched on and off by using M-MDS. On models for United States, Puerto Rico, Guam and Saipan, the flexible setting can be switched by operating the center display.

**NOTE:**

- **When activating the Flexible oil maintenance monitor, make sure to replace the engine oil and perform oil data reset.**

- [USA, Guam, Saipan, and Puerto Rico]

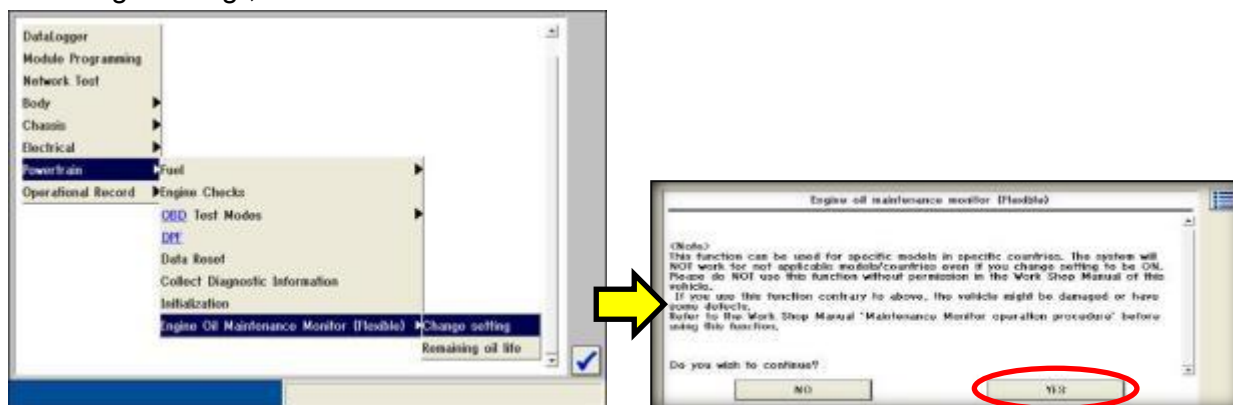
PCM software should be modified one according to Service Information R069/15 or later "Engine Oil Flexible Maintenance Notification will not work".

- [Europe]

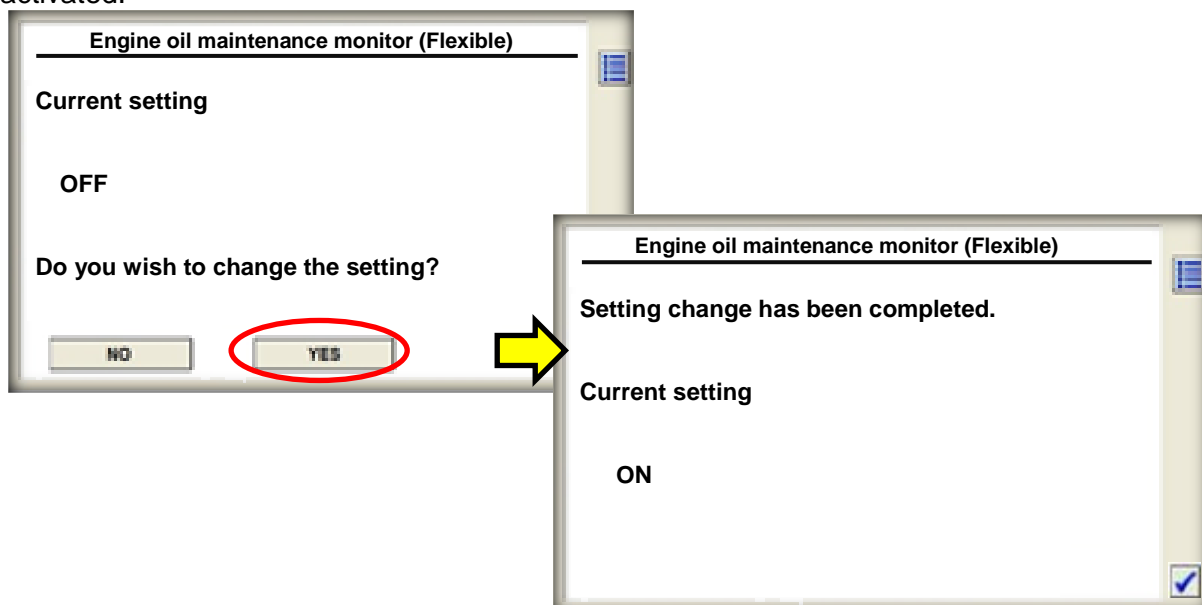
PCM software should be modified one according to Service Information R094/15A or later "Flexible Engine Oil Maintenance Monitor does not work properly".

MZD connect CMU software should be Ver.56.00.512 or later.

1. Start M-MDS and select "Toolbox" - "Powertrain" - "Engine Oil Maintenance Monitor (Flexible)" - "Change setting", then click on "YES" in the next window.



2. In the next screen click on "YES".  
When the message "Current setting ON" appears, the oil flexible setting has been successfully activated.

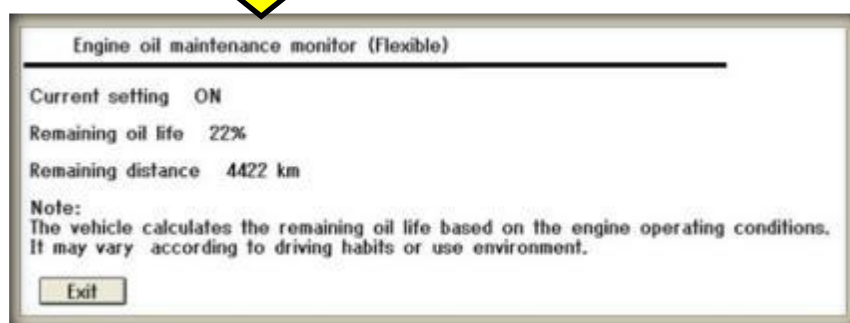
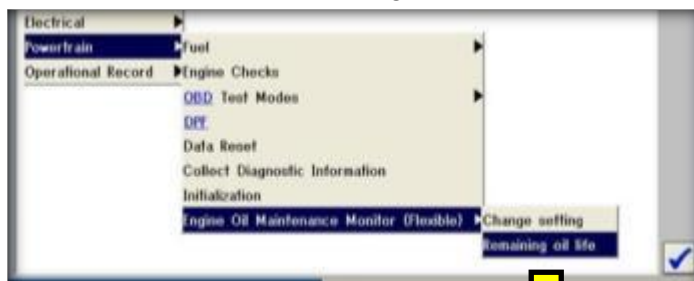


- Make sure if the Engine Oil Maintenance Monitor flexible is activated on M-MDS or the center display.

<On M-MDS>

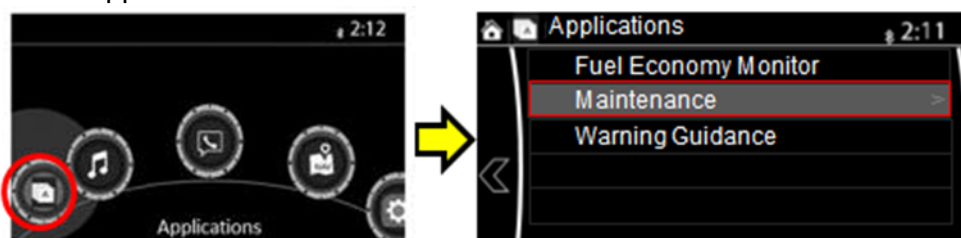
Remaining oil life and remaining distance can be displayed in the menu below.

Select "Toolbox" - "Powertrain" - "Engine Oil Maintenance Monitor (Flexible)" - "Remaining oil life"

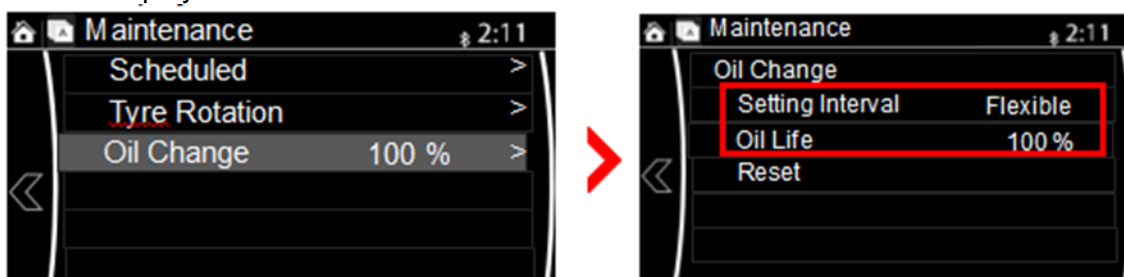


<On center display>

Select "Applications" - "Maintenance"



Oil life is displayed as shown in below.



**NOTE:** Just after performing engine oil data reset, a remaining distance of 0 km is displayed on M-MDS. However, after the vehicle has traveled a certain distance, the correct remaining distance value will be shown. This is normal operation and must not be considered as a malfunction.