

# Service Information

Mazda Motor Corporation

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



Category <b>E</b>	<b>Modification</b>	Ref. No. M001/07	Page 1 of 3
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued May 29, 2007	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised December 4, 2007	
Applicable Models Mazda5(CR), MPV(LW), E-Series(SK), Facelift Mazda2 (DY), RX-8 (FE/SE), MX-5 (NC), BT-50 (UN), Mazda6 (GG/GY) / Mazda6 MPS / Mazdaspeed6 (GG), CX-7 (ER), CX-9 (TB), <b>Mazda3 / Mazda3 MPS / Mazdaspeed3</b>		Applicable Countries or Specifications  Worldwide	

**UPDATED**

## Subject: Long-life Coolant FL22 (Update of Service Information M002/05)

**Update Note: The beginning VIN for Mazda3 has been added.**

### DESCRIPTION

Long-life coolant (FL22) has now been used for most of Mazda vehicles assembled in Japan. The new coolant enables service life longer.

### BEGINNING VIN & DATE OF MODIFICATION

#### **Mazda5 (CR)**

Job#1

#### **MPV (LW)**

##### **US Spec.**

JM3LW28\*\*\*\* 546928                      March 8, 2005

##### **EC Spec.**

JMZLW\*\*\*\*\* 309530                      March 8, 2005

##### **ADR Spec.**

JM0LW10\*\*\*\* 301728                      March 8, 2005

##### **General**

JM6LW\*\*\*\*\* 301728                      March 8, 2005

JM8LW28\*\*\*\* 301728                      March 8, 2005

#### **E-Series (SK)**

##### **ADR Spec**

JM0SK\*\*\*\*\* 302989                      March 7, 2005

JM0SY\*\*\*\*\* 200486                      March 7, 2005

**MX-5 (NC)**  
Job #1

**Facelift Mazda2 (DY) – Japan Production**  
Job #1

<b>RX-8 (FE/SE)</b>	
<b>US Spec.</b>	
JM1 FE17** ** 155009	May 25, 2005
<b>EC Spec.</b>	
JMZ SE17** ** 131658	May 25, 2005
<b>ADR Spec.</b>	
JM0 FE1730 50 103368	May 25, 2005

**BT-50 (UN)**  
Job #1

**CX-7 (ER)**  
Job #1

**CX-9 (TB)**  
Job #1

**Mazda6 / Mazda6 MPS / Mazdaspeed6**

<b>US Spec.</b>	
JM1 GG**** ** 110220	May 15, 2007
<b>EC Spec.</b>	
JMZ GG**** ** 717486	May 15, 2007
JMZ GY**** ** 470147	May 15, 2007
<b>ADR Spec.</b>	
JM0 GG**** ** 545076	May 15, 2007
JM0 GY**** ** 304994	May 15, 2007
<b>General Spec.</b>	
JM6 GG**** ** 545077	May 15, 2007
JM6 GY**** ** 304996	May 15, 2007
JM7 GG**** ** 545077	May 15, 2007
JM7 GY**** ** 304996	May 15, 2007

**Mazda3 (BK)**

<b>US Spec.</b>	
JM1 BK**** ** 864673	December 1, 2007
<b>EC Spec.</b>	
JMZ BK**** ** 704428	December 1, 2007
<b>ADR Spec.</b>	
JM0 BK**** ** 390650	December 1, 2007
<b>General Spec.</b>	
JM6 BK**** ** 390650	December 1, 2007
JM7 BK**** ** 390650	December 1, 2007

**Outline of New Engine Coolant (FL22)**

**1. Reasons for introducing new engine coolant (FL22)**

- 1) To reduce maintenance costs for customers
- 2) To reduce amount of waste material and resources saving (environmentally friendly)

**2. Identification**

New radiator cap label shows “FL22” (See the right illustration.)



### 3. Compatibility and service interval

3-1 FL22 and the conventional engine coolant are compatible.

3-2 Service interval after filling FL22 engine coolant into the vehicles originally filled with conventional engine coolant

	New engine coolant (FL22)		Ref.) Conventional engine coolant	
	Initial	Subsequent	Initial	Subsequent
USA	10 years/ 192,000km	5 years/ 96,000km	4 years/ 96,000km	2 years
Mexico	10 years/ 190,000km	3 years/ 60,000km	2 years/ 40,000km	
Europe	11 years/ 200,000km *1		4 years/ 100,000km *1	2 years
Russia	11 years/ 195,000km		4 years/ 90,000km	2 years
Israel	10 years/ 195,000km		4 years/ 90,000km	2 years
Australia/ New Zealand	10 years/ 200,000km	5 years/ 100,000km	4 years/ 80,000km	2 years
Taiwan	10 years/ 200,000km	5 years/ 100,000km	2 years	
China	10 years/ 200,000km	5 years/ 100,000km	10 years/ 200,000km	2 years
Others	5 years/ 100,000km		2 years	

\*1: Europe L3T Engine Only

11 years/ 195,000km	4 years/ 90,000km	2 years
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### 4. Action recommended

Mazda recommends using FL22 engine coolant into the vehicles originally filled with FL22 coolant. Some customers may prefer to conventional one due to economy reason. In cases of that, the following actions are recommended for identification.

4-1 In case of filling FL22 engine coolant into the vehicles filled with conventional engine coolant

⇒ Obtain the sticker below from Mazda Overseas Field Service Dept and attach it next to the reservoir tank. Contact Email is [ocsd@mazda.co.jp](mailto:ocsd@mazda.co.jp)



4-2 In case of filling conventional engine coolant into the vehicles filled with FL22 engine coolant.

⇒ Use black paint to hide the letters of "FL22" on the radiator cap label.



*K. Tsuji*

Koji Tsuji  
Manager, Technical Information Gr.  
Technical Service Dept.  
Mazda Motor Corporation

For more detailed information about this change, we have included Service Information Activity A003/05 released from Vehicle Service & Program Department.

Category --	<b>Activity</b>	Ref. No. A003/05	Page 1 of 1
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued March 18, 2005	
Please convey this information to your <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Attachment: 3 page	
Applicable Models --	Applicable Countries or Specifications Worldwide		

### Subject: New engine coolant (FL22) Introduction

Dear All,

Thank you for your ongoing cooperation in our after-sales service activities.

As of Mazda5 mass production, Mazda will introduce a longer-life engine coolant (FL22). Refer to the attached document for details. Please share this information with all affected employees, affiliated dealers, and, of course, your customers.

Sincerely yours,

  
 Yoshifumi Uenome  
 General Manager  
 Vehicle Service & Program Dept.  
 Mazda Motor Corporation

New Engine Coolant (FL22)-related Information

1. Reasons for introducing new engine coolant (FL22)

- 1) Reduces maintenance costs borne by customers
- 2) Reduces amount of waste material and resources saving (environmentally friendly)

Ref.) Among Japanese manufacturers, Toyota and Honda already adopts the coolant with long similar longevity.

2. New engine coolant (FL22) replacement Interval

	New engine coolant (FL22)		Ref.) current engine coolant	
	Initial	Subsequent	Initial	Subsequent
USA	10 years/ 192,000km	5 years/ 96,000km	4 years/ 96,000km	2 years
Europe	11 years/ 200,000km		4 years/ 100,000km	
Israel	10 years/ 195,000km		4 years/ 90,000km	
Australia/ New Zealand	10 years/ 200,000km	5 years/ 100,000km	4 years/ 80,000km	
Taiwan	10 years/ 200,000km	5 years/ 100,000km	2 years	
Others	5 years/ 100,000km			

Ref.) Toyota/Honda replacement Intervals

	Honda		Toyota	
	Initial	Subsequent	Initial	Subsequent
USA	10 years/ 192,000km	5 years/ 96,000km	7 years/ 160,000km	4 years/ 80,000km
Europe	11 years/ 200,000km		7 years/ 160,000km	4 years/ 80,000km
Israel	11 years/ 200,000km		7 years/ 160,000km	4 years/ 80,000km
Australia/ New Zealand	10 years/ 200,000km	5 years/ 100,000km	160,000km	80,000km
Taiwan	10 years/ 200,000km	5 years/ 100,000km	7 years/ 160,000km	4 years/ 80,000km
Others	5 years/ 100,000km		5 years/ 100,000km	

3. Models in which FL22 will be used/ introduction schedule

All models will be gradually switched over to FL22 beginning with mass production of the Mazda5. The Technical Service Dept. will advise you in a separate notice as to when the coolant in each model will be changed.

The present schedule calls for the Mazda6 produced at the AAI plant and the B-series produced at the AAT plant to be switched to FL22 in June, 2005 and February, 2006 respectively.

The Tribute (produced in Kansas), the Mazda2 (produced at the Valencia plant) and vehicles produced at the KD (Knockdown) plant are not affected by the above.

4. Distinguishing between FL22 and the current engine coolant

Both coolants are green, making them impossible to distinguish visually.

The radiator cap labels of vehicles designated for use with FL22 say "FL22" on them. Use this label to distinguish between the coolants (See figure).

(The radiator cap labels for vehicles not designated for use with FL22 do not say "FL22" on them.)

Since both replacement intervals described above are provided in the owner's manual, we recommend checking both the radiator cap label and owner's manual when replacing engine coolant.



Radiator Cap Label

Ref.) "FL22" is a term used at Mazda for associating owners manuals and their corresponding vehicles.

5. Coolant compatibility (FL22/ current engine coolant)

FL22 and the current engine coolant are compatible.

Mazda6 production at the AAI plant is scheduled to switch to FL22 this June. The coolant presently used in these vehicles is orange. Although these coolants are compatible, mixing the two together turns the coolant black. To prevent customers from being alarmed when coolant turns black after being replaced, provide a full explanation when servicing the vehicle.

1) Using FL22 in a vehicle designated for use with the current engine coolant

a) Replace coolant in accordance with the intervals indicated below.

	Replacement interval
USA	5 years/ 96,000km
Europe	5 years/ 100,000km
Israel	5 years/ 90,000km
Australia/ New Zealand	5 years/ 100,000km
Taiwan	
Others	



FL22 sticker

b) FL22 is not mentioned in the owner's manuals or on the radiator cap labels of vehicles designated for used with the current engine coolant. Consequently, it is necessary to provide a way to identify the coolant in use in the event that FL22 is used in these vehicles at a later date.

Mazda is preparing the sticker like the one shown above to indicate vehicles containing FL22.

Please apply this sticker next to the reserve tank.

To obtain this sticker, contact the department indicated below.

Overseas Fields Service Dept. (ocsd@mazda.co.jp)

Customer Service Div.

TEL: +81-82-287-4595/ Fax: +81-82-287-5198

2) Using the current engine coolant in a vehicle designated for use with FL22

- After the initial replacement, replace the current engine coolant once every two years.
- The current engine coolant must be replaced more frequently than FL22, which makes it necessary to be able to visually confirm which coolant is in use in the event that FL22 is replaced with the current coolant at a later date. Erase, cross off, or otherwise obscure the marking "FL22" on the radiator cap label when replacing FL22 with the current engine coolant.
- Use the FL22 replacement interval when topping off the reserve tank (5% of total capacity). Be aware that the FL22 replacement interval cannot be used for frequent topping off, because the addition of current engine coolant will reduce the ratio of FL22 in the mixture. Inspect the engine for leaks and then replenish the coolant with FL22.

6. FL22 notation in owner's manuals

Since FL22 and the current engine coolant are compatible, replacement intervals for both are indicated in the owner's manual. The following comment appears in documentation because Mazda is encouraging the use of FL22.

"Use FL22 type coolant in vehicles with the inscription 'FL22' on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant"

In addition, an explanation of radiator cap labels is given under "engine coolant" in the Owner Maintenance section of the owner's manual.

Be aware that owner's manuals for certain manuals do not contain this information. These owner's manuals will be updated through the inclusion of a leaflet at the time of the next reprint.

7. FL22 composition

Both FL22 and the current engine coolant are ethylene glycol-based. The ratio of additives has been changed to lengthen the replacement interval.

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8. Coolant shipping format

- a) It is described to the drum as "FL22".
- b) Coolant is shipped as a diluted solution (55% coolant, 45% water) in 18L drums. Use the solution as is when replacing coolant.
- c) Use the solution as is when topping off coolant.
- d) F.O.B: JPY 5,253 per 18L drum  
This F.O.B. price is for information purposes only. Actual price must be confirmed through price information supplied by Mazda or associated Trading Company.

9. Ordering coolant

The part number is K018-W0-122.

10. Possible coolant shipping dates

Coolant for replacement is scheduled to be available on April 1st, 2005.

11. Contact Information

Contact the individuals listed below if you have questions/ comments on any of the above.

Yoji Garaku (garaku.y@mazda.co.jp)/ Rie Inoue (inoue.rie@mazda.co.jp)

TEL: +81-82-252-5240 / FAX: +81-82-252-5334

Upstream Service Program Gr.

Vehicle Service & Program Dept.

Customer Service Div.