

Service Alert

Mazda North American Operations
Irvine, CA 92618-2922



Subject: PHEV COOLANT BLEEDING PROCEDURE	Service Alert No.: SA-004/24
	Last Issued : 01/19/2024

BULLETIN NOTES

APPLICABLE MODLE(S)/VINS

2024 CX-90 (PHEV)

DESCRIPTION

[Click here to view coolant bleeding 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.

PHEV COOLANT BLEEDING PROCEDURE

Drain EV System Coolant

Recommend to locally source bleeder tool.

Example photo below.



Warning

- The EV system is hot immediately after driving and charging, and can cause severe burns. Turn off the EV system and wait until it is cool before performing the servicing.
- If the cooling system cap is removed while the EV system is hot, hot coolant may be ejected, causing severe burns or injury. Perform the removal of the cooling system cap when the EV system is cool.
- When removing the cooling system cap, cover the cooling system cap with a clean cloth and remove it slowly.
- The cooling fan may suddenly start operating regardless of the main power switch position. Keep hands and tools away from the cooling fan even if the cooling fan is not operating to prevent injury, or damage to the cooling fan. When servicing the cooling fan or parts near the cooling fan, ensure the following.
 - Do not perform charging
 - Do not select high voltage battery cooling on center display after EV system stops
 - Do not open/close doors frequently with main power switched OFF
 - Access connected vehicle maintenance mode (MyMazda App connected vehicle)
 - Cancel climate control timer

Note

- If the [FL22] mark is shown on or near the cooling system cap, use Mazda Genuine FL22 EV system coolant.



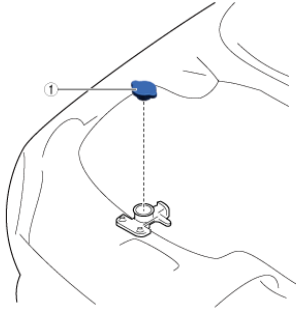
- FL22 type EV system coolant is shipped as a diluted solution. Use the solution as is when replacing coolant.

EV system coolant capacity (approx. quantity)

Capacity
9.6 L {10 US qt, 8.4 Imp qt}

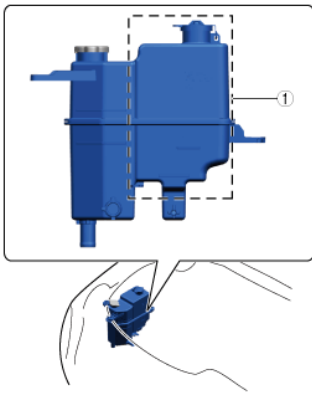
1. Remove in the order indicated in the table.

PHEV COOLANT BLEEDING PROCEDURE



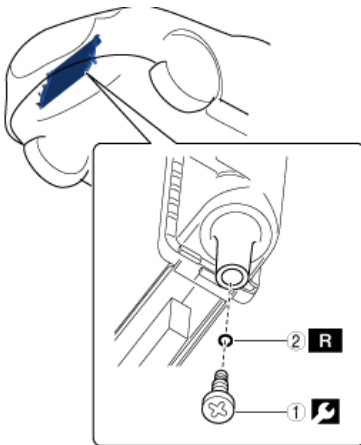
Procedure	Part name	Applicable condition
1	Cooling system cap (sub)	Continuous

2. Drain the EV system coolant from the coolant reserve tank (sub).



Procedure	Part name	Applicable condition
1	Coolant reserve tank (sub)	Continuous

3. Remove in the order indicated in the table.



PHEV COOLANT BLEEDING PROCEDURE

Procedure	Part name	Applicable condition		
1	Radiator drain plug (sub)	Continuous	—	—
2	Drain cock gasket	Continuous	Replacement part	1 N·m {11 kgf·cm, 9 in·lbf}

4. Draining the EV system coolant.

5. Install the radiator drain plug (sub).

Inspect For PHEV Coolant Leakage

Warning

<<High voltage>>

- Always observe the following thoroughly to ensure safety when inspecting or removing/installing parts in the motor compartment. Otherwise, the high voltage circuit may operate on the vehicle regardless of whether or not the main power is switched OFF or ON (READY off or on). If this occurs, it could cause electrical shock and result in serious injury or, in the worst case, death.
 - Do not perform normal charging or quick charging
 - Access connected vehicle maintenance mode (MyMazda App connected vehicle)
 - Cancel climate control timer

Warning

- Always observe the following thoroughly to ensure safety when inspecting or removing/installing parts in the motor compartment. Otherwise, the cooling fan may operate on the vehicle regardless of whether or not the main power is switched OFF or ON (READY off or on). If this occurs, it could cause injuries such as lacerations and from getting caught in the cooling fan.
 - Do not perform normal charging or quick charging
 - Access connected vehicle maintenance mode (MyMazda App connected vehicle)
 - Cancel climate control timer
- The EV system is hot immediately after driving and charging, and can cause severe burns. Turn off the EV system and wait until it is cool before performing the servicing.
- If the PHEV cooling system cap is removed while the PHEV cooling system is hot, hot coolant may be ejected, causing severe burns or injury. Perform the removal of the PHEV cooling system cap when the PHEV cooling system is cool.
- When removing the PHEV cooling system cap, cover the PHEV cooling system cap with a clean cloth and remove it slowly.

Note

- Perform the procedure with the PHEV cooling system cap removed.

1. Install the radiator cap tester to the filling port.



PHEV COOLANT BLEEDING PROCEDURE

2. Apply pressure using the radiator cap tester.

Coolant leakage inspection pressure
122.6 kPa{1.148 kgf/cm², 16.33 psi} [1 min]

3. When pressurizing the radiator, verify that the pressure is maintained.

- If the pressure decreases, repair or replace the location where water is leaking because water leakage can be considered.