

Subject: CX-70 AND CX-90 SERVICE CAUTIONS FOR NEW AND REVISED FEATURES Last Issued : 04/23/2024

BULLETIN NOTES

This SA supersedes the previously issued SA(s) listed below. The changes are noted in Red.

Previous SA:	Date(s) Issued:	
SA-020/24	4 03/19/24	
SA-017/23	11/06/23, 09/14/23, 08/28/23, 07/24/23, 06/09/23, 05/24/23, 05/15/23 and 03/27/23	

APPLICABLE MODEL(S)/VINS

2025 CX-70 2024 CX-90

DESCRIPTION

The CX-70 and CX-90 have new and revised features that are different from previous models and may be difficult to understand. This Service Alert provides valuable information to support potential dealer and customer concerns.

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- PDI fuse
- Key Transmitter and Auxiliary Key
- Immobilizer (Code Word)
- Theft-Deterrent System
- High Voltage
 - Mazda M Hybrid Boost
 - Plug-In Hybrid Electric Vehicle (PHEV)
 - High Voltage Battery Service Cautions
 - High Voltage Battery Maintenance
 - PHEV 355V High Voltage Shutdown Before Service
 - M Hybrid Boost 48V High Voltage Shutdown Before Service
 - High Voltage Battery Replacement
 - Back Up Sub Battery for e-SKYACTIV PHEV
 - PHEV Refueling Procedure
 - PHEV Instrument Cluster Battery Range
 - PHEV interfere with flat lift
 - PHEV 355V and M Hybrid Boost 45V Electric Fan Service Caution
 - Engine Coolant Drain Location

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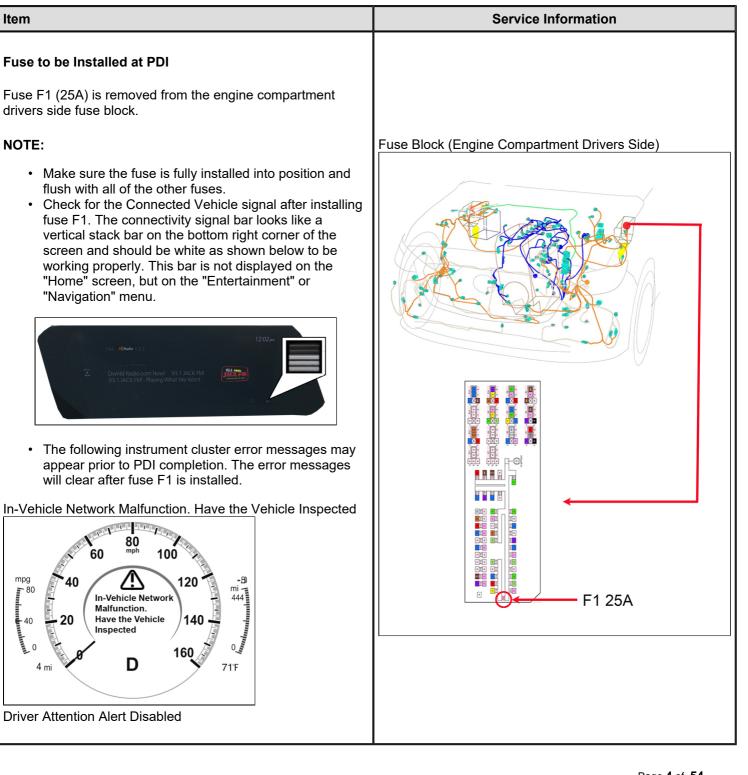
- PHEV 355V HVAC Compressor Oil
- Engine Oil Level Measurement (Infotainment Center Display)
- FR-8EAT(Front Engine Rear Drive-8 Electrical Automatic Transmission)
- Transfer Case for All-Wheel Drive
- i-stop
- 12V Battery Charging / Testing
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 - i-ACTIVSENSE Indicators
 - Smart Brake Support (SBS)
 - Forward detection function
 - Turn-Across Traffic
 - Front Crossing
 - Intersection accident avoidance assist function
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 - Rear Crossing
 - Secondary Collision Reduction
 - Mazda Radar Cruise Control with Stop & Go Function System (MRCC)
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 - Cruising and Traffic Support- Risk Mitigation Function (CTS-RMF) (CX-70 only)
 - Distance & Speed Alert (DSA)
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 - Lane Departure Warning System (LDWS)
 - Emergency Lane Keeping (ELK)
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 - Head-on traffic avoidance assist
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 - Blind Spot Monitoring (BSM) System
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 - Rear Cross Traffic Alert (RCTA) System
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 - Driver Monitoring (DM)
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 - Traffic Sign Recognition System (TSR)
 - 360° View Monitor System
 - Trailer Hitch View (CX-70 only)
 - Driver Personalization System
- Connected Vehicle
 - MyMazda App Remote Engine Start
 - Mazda Connected Vehicle Viewer (MCVV)
- Mazda intelligent Drive Select (Mi-Drive)
- Hill Descent Control
- AUTOHOLD
- Hill Launch Assist (HLA)
- Kinematic Posture Control (KPC)
- Liftgate Lens Illumination

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- Power Liftgate Hands-free function
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- Electric Parking Brake (EPB)
- MAZDA CONNECT
 - MAZDA CONNECT Power Function
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 - Wireless Apple Carplay[™] / Android Auto[™]
 - Wireless Qi Charger
 - USB Type C Flash Drive
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- Occupant Comfort
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- Maintenance Mode
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 - PHEV 355V High Voltage Shutdown Before Service
 - M Hybrid Boost 48V High Voltage Shutdown Before Service
- Web-Based Training Courses

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Service Alert No.: SA-020/24

 Disgard the plastic bar code tag during PDI. The plastic bar code tag is used during vehicle production and is not needed by the customer. If additional auxiliary metal keys are needed, the key machine will require a 5-digit code. Just add "5" as the 1st digit to make the 4-digit to 5-digit. 		
transmitters during PDI. Remove the transmitter lower cover by sliding the knob in the direction shown and then sliding the cover in the opposite direction.		
Insert the auxiliary key.		
Install the transmitter lower cover by inserting the tabs of the lower cover into the slots of the transmitter.		
Transmitter Note:		

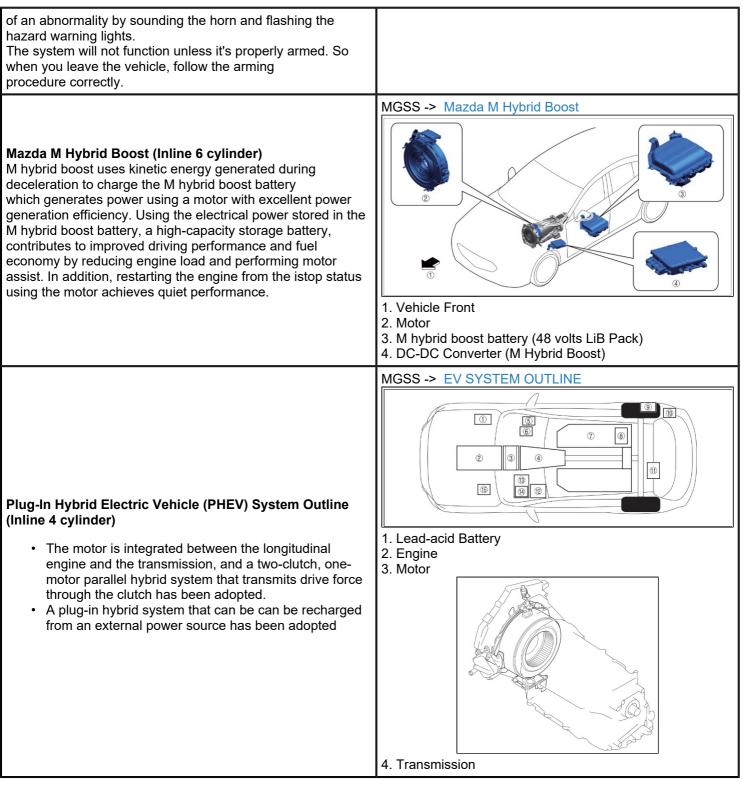
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 If one transmitter is lost, inform the customer to take cautions not to lose the 2nd transmitter. If both transmitters are lost, the vehicle will be disabled and MDARS will need to be used to program new transmitters. Replacement battery type is CR2032 (3V, 225mAh), which is different then previous 6th generation transmitter battery type CR2025 (3V, 160mAh). If the wrong battery is installed, the transmitter might not work properly (malfunction). 	
Immobilizer (Code Word) CX-70, CX-90 have 32 character immobilizer in and out codes (2 sets of 16 characters).	When a CX-70, CX-90 VIN is input into the Immobilizer (Code Word application you will have two Out Code fields. Outcode #1 and Outcode #2 from MDARS should be entered in these fields. Mazda North American Operations Immobilizer (Code Word) Dealer Code User ID Part Number Serial/Authentication Number Error Control Number Request Reason Outcode1 Outcode2 Model Type CX-90 Outcode1 Once retrieved, there will be an "Incode1" and "Incode2" that will need to be entered into MDARS. Mazda North American Operations Immobilizer (Code Word) Mazda North American Operations Immobilizer In Code Incode1 StabBCAF912B14A11
Theft-Deterrent System If the theft-deterrent system detects an inappropriate entry into the vehicle, which could result in the vehicle or its contents being stolen, the alarm alerts the surrounding area	Owner's Manual -> Opening / Closing -> Security System - > Theft-Deterrent System

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Service Alert No.: SA-020/24	Last Issued : 04/23/2024
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	 5. Sub-battery 6. PCM 7. High voltage (for drive) battery (355 volts LiB Pack) 8. BECM 9. Charging port electrical supply unit 10. Charging control unit 11. 1500W PSU 12. DC/DC converter 13. Inverter 14. Drive Motor Control Module 15. Electronically controlled brake unit 	
High Voltage Battery Service Cautions Inner Service of High Voltage Battery (LiB Pack for PHEV: 355 volts) should NOT be handled by Dealer Technicians for SAFETY reason. Also, NO Inner Service for 48 volts LiB Pack is allowed.		
High Voltage Battery Maintenance For new vehicles in stock at the dealer, inspect and maintain the high voltage battery periodically.	SA-018/23	
 PHEV 355V High Voltage Shutdown Before Service CAUTION: Technician Hybrid & EV Specialist Cerfitication is required. Always make sure to follow the MGSS High Voltage Shutdown procedure before servicing the vehicle. 1) Confirm No charging cable at the charging connector. 2) Open the Driver's side door. 3) IG ON (READY LAMP ON) and wait for 3 seconds or more. 	View from the bottom of PHEV LiB Package P-N Terminals	

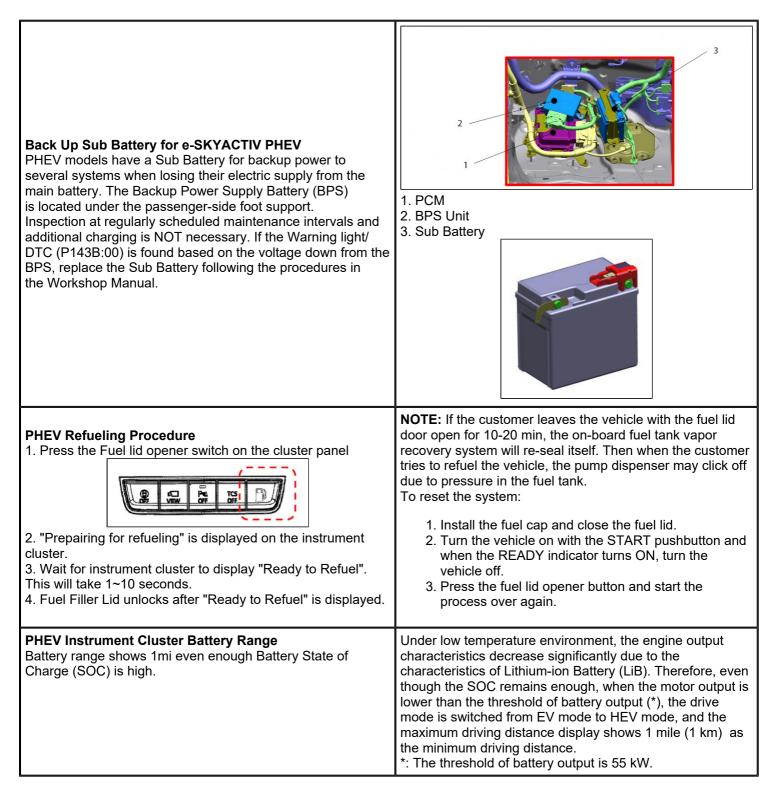
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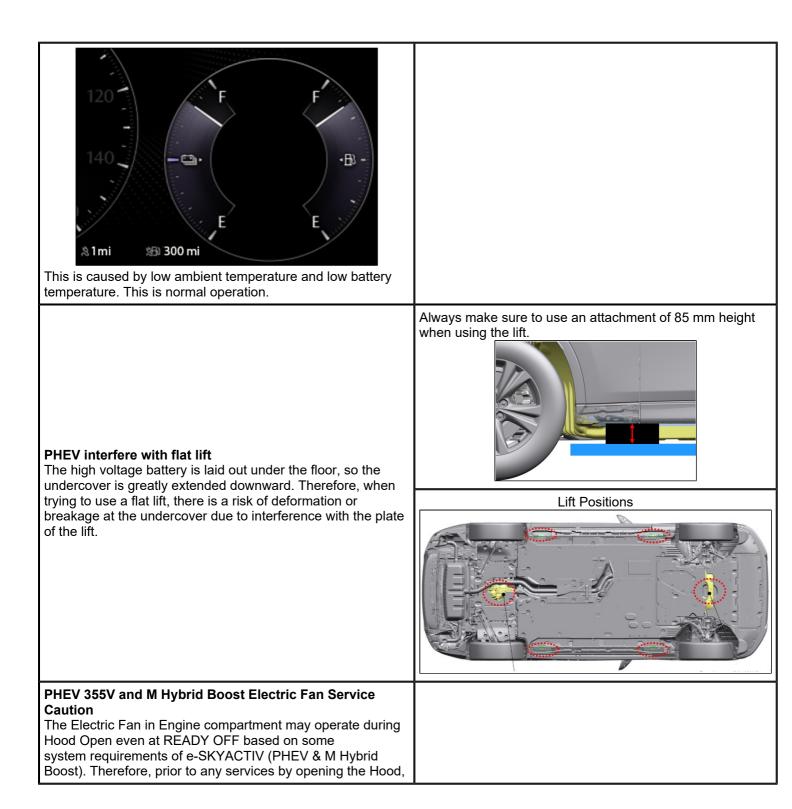
 4) IG OFF (READY LAMP OFF) and wait for 5 minutes (Wait for stop of Electric fan if moving even after 5 minutes.) 5) Remove minus terminal at 12 volts Lead-acid battery within 25 minutes after IG OFF (then, Driver's door can be closed.) and wait for more 1 minute. 6) Remove SERVICE PLUG with electrical insulating gloves. 7) Leave 10 minutes or more for electric discharge. 8) Check NO voltage at INVERTER Harness connection (P-N terminals) in PHEV LiB Package with electrical insulating gloves. 9) In case of removing OBC &/or 1500W Power Supply after OBC Contactor, Check NO voltage at P-N terminals at 1500W Power Supply coupler with electrical insulting gloves. 	Isoow Power Supply
 M Hybrid Boost 48V High Voltage Shutdown Before Service Always make sure to follow the MGSS High Voltage Shutdown procedure before servicing the vehicle. 1) IG OFF (READY LAMP OFF) and confirm stopping the Engine. 2) Leave 30 seconds or more. 3) Remove minus terminal at 12 volts Lead-acid battery. 	
High Voltage Battery Replacement If MGSS diagnosis leads to a high voltage battery replacement, contact Hotline for technical support. CAUTION: DO NOT perform MGSS HIGH VOLTAGE BATTERY REMOVAL/INSTALLATION.	

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 Always make sure NOT to Charge (PHEV). Always make sure to set TCU (Telematics Communication Unit) into communication restriction mode. Always make sure to cancel Climate Control Timer only for PHEV. to avoid any unexpected Operation of Electric Fan for safety in the service. 	
Engine Coolant Drain Location	A. Drain Plug for High Temperature (Engine Cooling)
PHEV 355V HVAC Compressor Oil PHEV 355V electric A/C compressor requires Polyolester (POE) oil (part number KRY9-61-K39 -9U) due to the electrical insulation performance. Polyalkyleneglycol (PAG) oil (such as E1Y0-61-K39) cannot be used in an electric A/C compressor. Always make sure to use only Mazda Genuine POE oil (KRY9-61-K39 -9U) for the electric A/C compressor. Using	 CAUTION: A properly adjusted amount of fluorescent agent (dye) is used during vehicle production. NEVER add fluorescent agent (dye) into the refrigerant system, otherwise the electrical insulation performance may deteriorate.
any POE Oil other than Mazda Genuine POE oil may cause electric leakage, deteriorated A/C performance, or damages to A/C components. NOTE:	NEVER use A/C refrigerant gas containing A/C compressor oil and fluorescent agent (dye). Rege 13 of 54

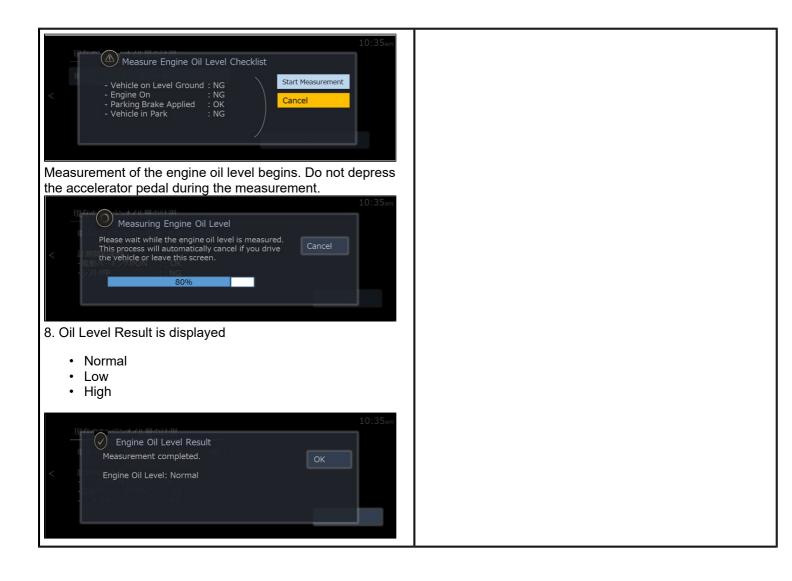
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 ETA for orderability of POE oil (KRY9-61-K39 -9U) late April 2023. A properly adjusted amount of fluorescent agents is used during vehicle production. Never add fluorescent 	NEVER use A/C compressor oil with fluorescent agent (dye).		
agent into the refrigerant system, otherwise the	Model	Part Number	Description
insulation performance may deteriorate. Never use A/ C refrigerant gas containing A/C compressor oil and fluorescent agent, or A/C compressor oil with fluorescent agent.	PHEV	KRYP-61-K39 9U	POE Oil for Electric Compressor
	НЗТ	0000-77-540E-20	PAG Oil
Engine Oil Level Measurement (Infotainment Center Display) 1. Make sure the hood is closed. 2. Start the engine. 3. Select "Information" on the Home screen to display the vehicle status monitor. 4. Select "Vehicle Status Monitor". 10:35 10:35 10:35 10:35 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 			

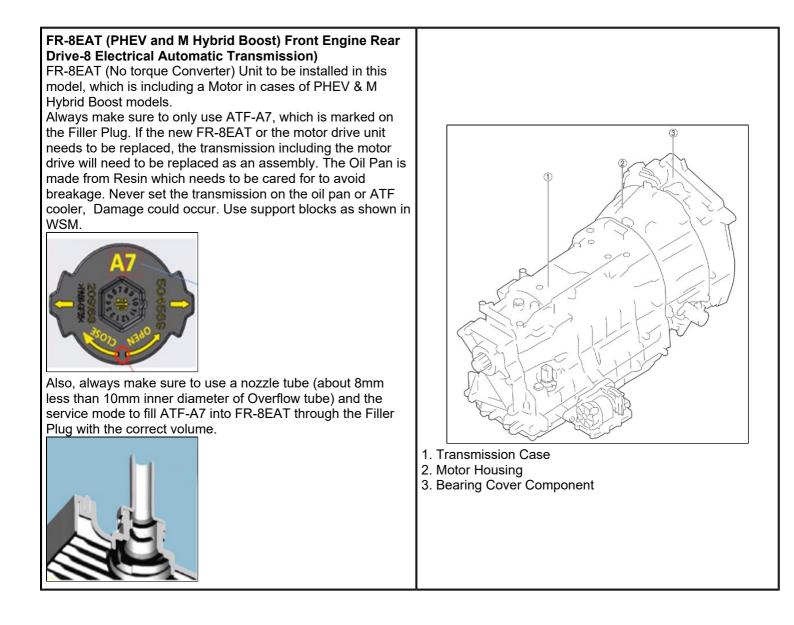
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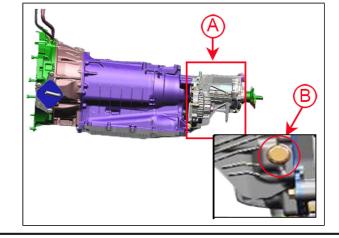
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Transfer Case for All-Wheel Drive

Transfer Case (A) to be installed in the All-Wheel Drive model.

Always make sure to use ATF-A7 (Not to use SG1), which is marked on the case near the Filler Bolt (B), to improve fuel economy.



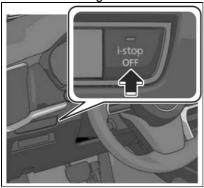
i-stop (M Hybrid Boost Inline 6 cylinder)

i-stop is a function that automatically stops and restarts the engine to improve fuel economy, reduce exhaust emissions, and idling noise.

Stopping the Operation of the i-stop Function

The i-stop function stops and the i-stop OFF switch indicator light turns on.

NOTE When the i-stop function is stopped and the engine is stopped, the i-stop function becomes operational again the next time the engine is started.



NOTE

- If the engine is stopped with the i-stop function stopped, the i-stop function becomes operational again when the engine is started the next time.
- · LN3 Battery for vehicles equipped with i-stop.
- Battery disconnect/reconnect Perform the battery

Owner's Manual -> Driving -> i-stop

Indicator Light



The i-stop indicator light (green) notifies the driver that the engine is stopped by i-stop control.



If the i-stop control inhibits i-stop operation, the i-stop warning light (amber) flashes to inform the driver.

DTC stored

Amber Solid



If the i-stop control inhibits i-stop operation, the i-stop warning light (amber) turns ON solid to inform the driver.

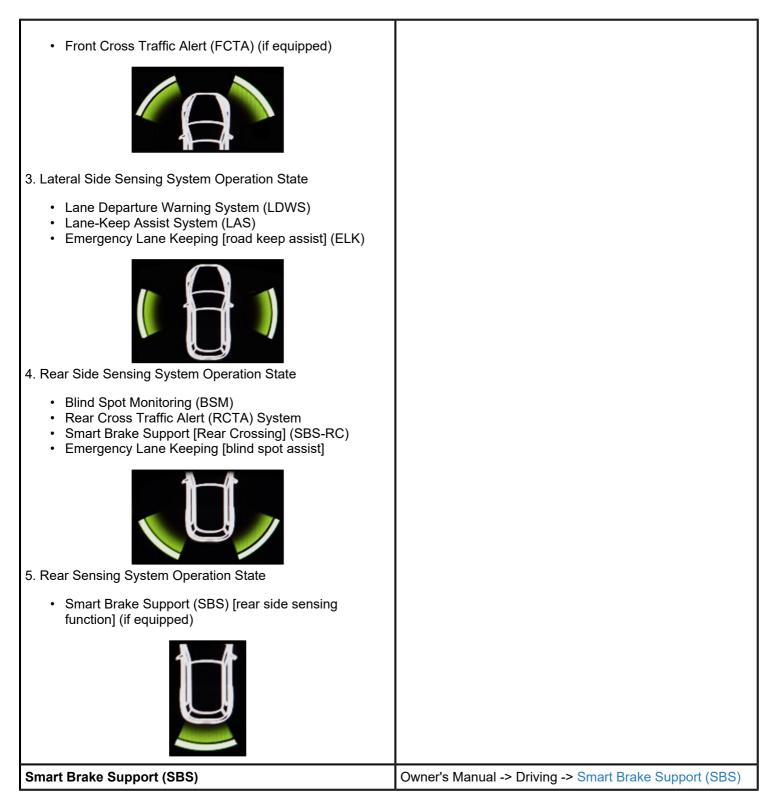
- Ignition switched ON (check of i-stop control system)
- Engine stalls due to driver's operation while engine is stopped by i-stop control

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condition initial setting (i-stop setting). Go to MGSS BATTERY CONDITION INITIALIZATION SETTING (i- stop SETTING)	Communication error to PCM and instrument cluster
12V Batttery Charging / Testing	MGSS -> 01-007/23
FACTIVSENSE i-ACTIVSENSE Driver Monitoring Camera Unit Outline Radar Sensor (front side) Ultrasonic Radar Sensor (front side) Driver Monitoring Camera & LED Driver Monitoring Camera Unit Adaptive LED Headlight Control Module Parking Assist Unit Radar Sensor (Rear side) Driver Monitoring Camera & LED Side Camera Back Camera Radar Sensor (Rear side) Control Module	Owner's Manual -> Driving -> i-ACTIVSENSE
 i-ACTIVSENSE Indicators Indicators Indi	Owner's Manual -> Driving -> i-ACTIVSENSE Status Symbol

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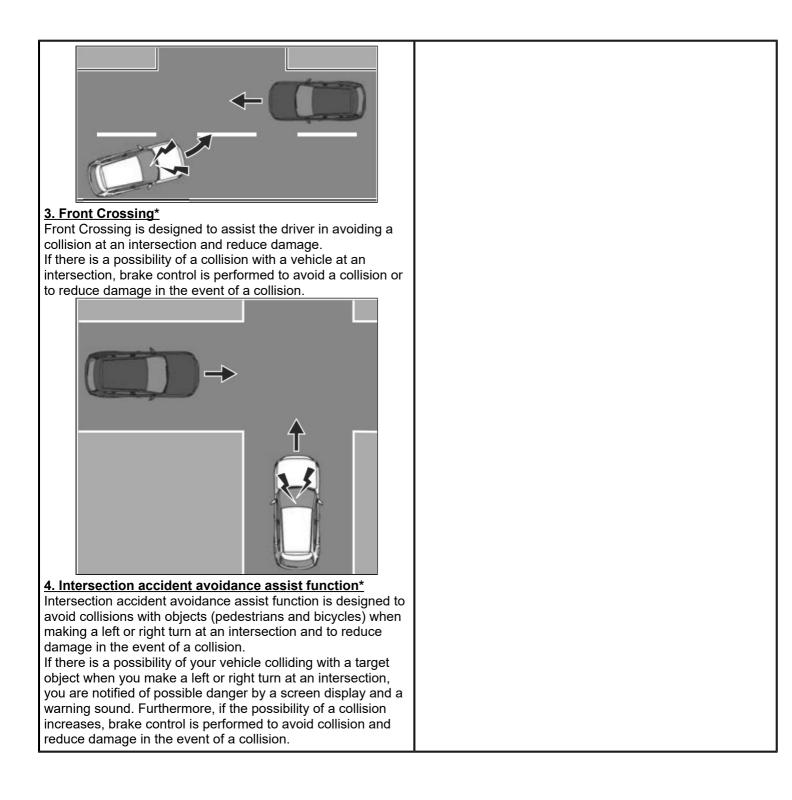


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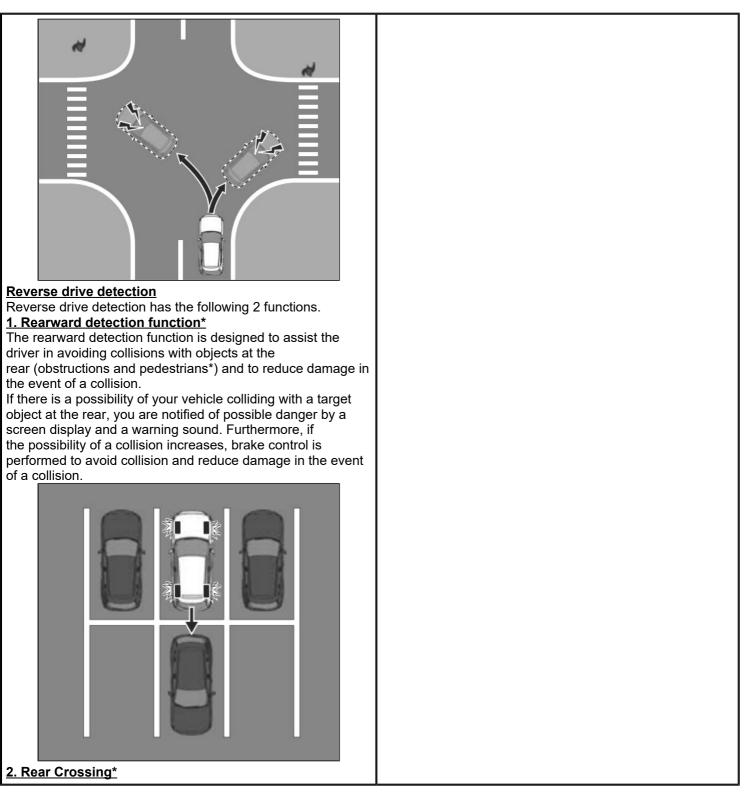
SBS is a system designed to avoid collisions and reduce	
damage in the event of a collision by controlling the brakes.	
Sensors and camera equipped on the vehicle detect objects,	
and operate brake control if there is a possibility of your	
vehicle colliding with the object.	
One part of the SBS functions when you are driving forward	
and the other part functions when you are driving in reverse.	
Forward drive detection	
Forward drive detection has the following 4 functions.	
<u>1. Forward detection function*</u>	
The forward detection function is designed to assist the driver	
in avoiding collisions with objects (vehicles	
ahead, pedestrians, bicycles, and motorcycles) at the front	
and to reduce damage in the event of a collision.	
If there is a possibility of your vehicle colliding with a target	
object at the front, you are notified of possible danger by a	
screen display and a	
warning sound. Furthermore, if the possibility of a collision	
increases,	
brake control is performed to avoid collision and reduce	
damage in the event of a collision.	
In addition, when the driver depresses the brake pedal, the	
brakes are applied firmly and quickly to assist.	
······	
2. Turn-Across Traffic*	
The Turn-Across Traffic is designed to assist the driver in	
avoiding a collision with a vehicle approaching in the opposite	
direction when making a left turn at an intersection and to	
reduce damage in the event of a collision.	
If there is a possibility of your vehicle colliding with a vehicle	
approaching in the opposite direction when you make a left	
turn at an intersection, you are notified of possible danger by	
a screen display and a warning sound.	
Furthermore, if the possibility of a collision increases, brake	
control is performed to avoid collision and reduce damage in	
the event of a collision.	

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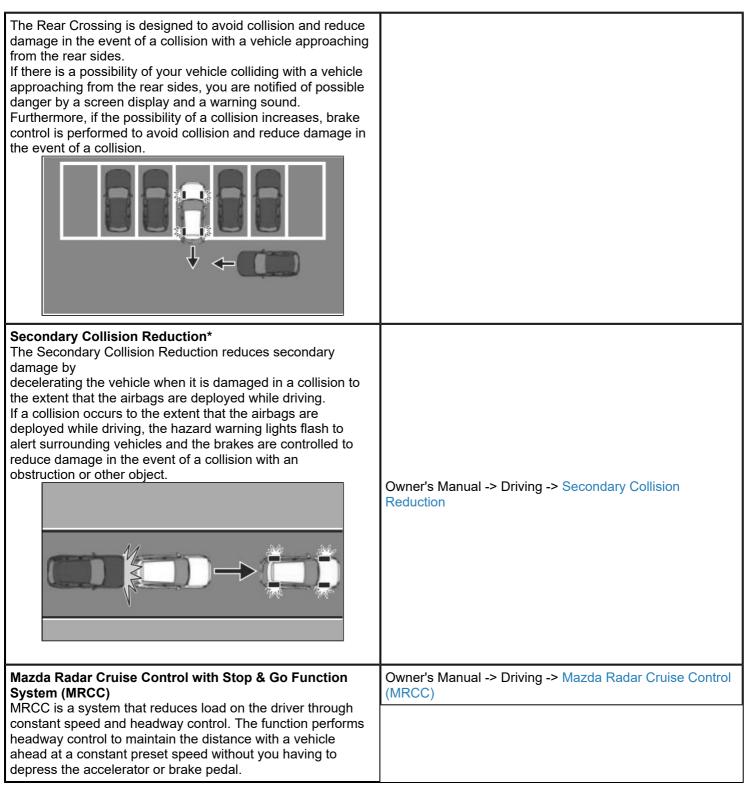


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Speed Limit Assist It is possible to set the vehicle speed of the speed sign recognized by the FSC and map information to the MRCC with one touch (RES button). Note: Navigation SD Card is required Note: Navigation SD Card is required Image: Speed Limit Sign Image: Speed Limit Sign	
5 mph offset10 mph offset	
Cruising & Traffic Support (CTS) The CTS is a system that reduces the load on the driver while the vehicle is driven on expressways or highways. The CTS has the following 2 functions.	Owner's Manual -> Driving -> Cruising & Traffic Support (CTS)
distance with a vehicle ahead at a constant preset speed without you having to depress the accelerator or brake pedal. Steering wheel assist function When vehicle lane lines are detected, the function assists your steering wheel operation to follow the vehicle lane lines. When vehicle lane lines are not detected, the function assists your steering wheel operation to follow the trajectory of the vehicle ahead.	
Cruising & Traffic Support - Risk Mitigation Function (CTS-RMF) (CX-70 only)	MGSS -> CRUISING & TRAFFIC SUPPORT (CTS)
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The risk mitigation function is a function that decelerates the vehicle if the driver is not driving the vehicle under the appropriate conditions. If the driver is not driving the vehicle under the appropriate conditions, a screen display and a warning sound urge the driver to drive appropriately. Furthermore, if this situation continues for a certain period of time, the vehicle is decelerated. Press the CTS switch to turn the system on.	Owner's Manual -> Driving -> Cruising & Traffic Support (CTS) -> Risk mitigation function
 Inattention Eyes Closed Looking aside Improper Driving Hands off Operation: System determines risk and responds with: Multiple warning messages Delecerates to a stop Keeps vehicle parked by applying EPB 	
Driver input such as steering wheel operation will cancel CTS-RMF	
Distance & Speed Alert (DSA) The DSA is a system in which the screen display notifies the driver that the distance between your vehicle and a vehicle ahead is close.	Owner's Manual -> Driving -> Distance & Speed Alert (DSA)

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Lane-Keep Assist System* The LAS is a system to help the driver stay within the vehicle lane if the vehicle might be deviating. If your vehicle may be deviating from the vehicle lane, the LAS provides steering assistance to avoid departure from the lane.	Owner's Manual -> Driving -> Lane-keep Assist System (LAS)
Lane Departure Warning System (LDWS) The LDWS notifies the driver that the vehicle might be deviating from its lane. If there is a possibility of your vehicle deviating from the vehicle lane, a screen display and a warning sound notify the driver of the danger.	Owner's Manual -> Driving -> Lane Departure Warning System (LDWS)
Emergency Lane Keeping (ELK)* The ELK is a system designed to assist the driver's steering wheel operation to avoid danger. The ELK has the following	Owner's Manual -> Driving -> Emergency Lane Keeping (ELK)

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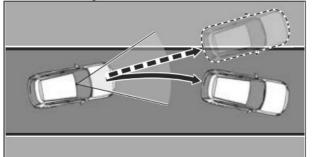
3 functions.

Road Keep Assist

The Road Keep Assist assists the driver to avoid departure from the road.

If your vehicle may be deviating from the road, the Road Keep Assist

provides steering assistance to avoid departure from the road. In addition, a screen display and a warning sound notify the driver of the danger.



Blind Spot Assist*

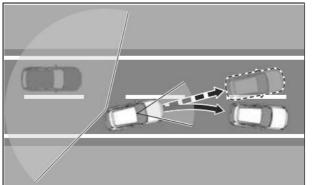
The Blind Spot Assist assists the driver in avoiding collisions with vehicles in adjacent lanes (excluding

vehicles approaching in the opposite direction).

If there is a possibility of a collision with a vehicle in an adjacent lane

when you try to change lanes or if you may deviate from your lane, the Blind Spot Assist assists your steering

wheel operation to keep you in the driving lane. In addition, a screen display and a warning sound notify the driver of the danger.



Head-on traffic avoidance assist*

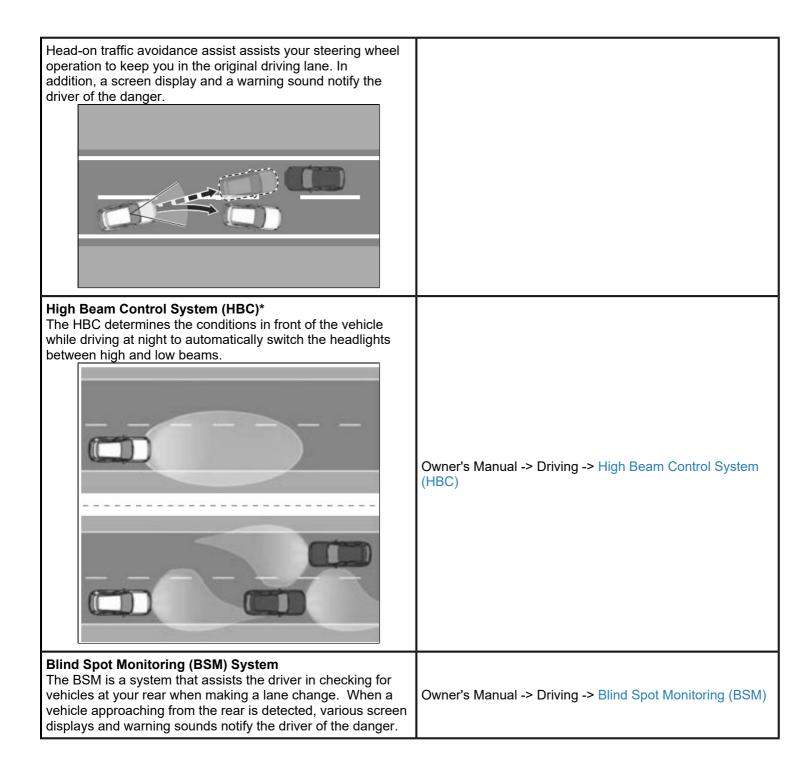
The Head-on traffic avoidance assist assists you in avoiding a collision with a vehicle approaching in the oncoming lane and your vehicle.

If there is a possibility of a collision with a vehicle

approaching in the

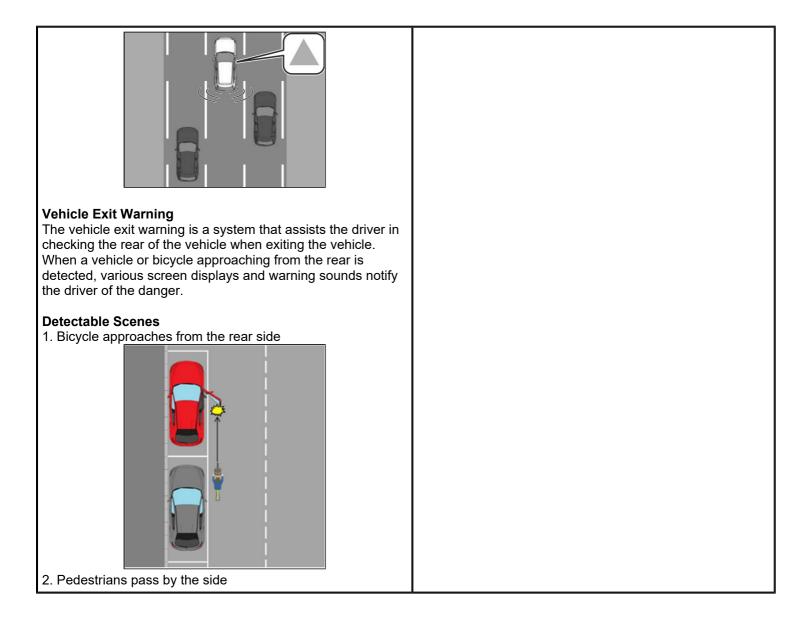
oncoming lane due to your vehicle departing from its lane, the

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3. Other scenes	
Front Cross Traffic Alert (FCTA) System The FCTA assists the driver in checking both sides of the vehicle when the vehicle starts to drive at an intersection. When a vehicle approaching from the blind spots on the front left or right side is detected, a screen display and warning sound notify the driver of the danger.	Owner's Manual -> Driving -> Front Cross Traffic Alert (FCTA)

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Owner's Manual -> Driving -> Rear Cross Traffic Alert (RCTA)

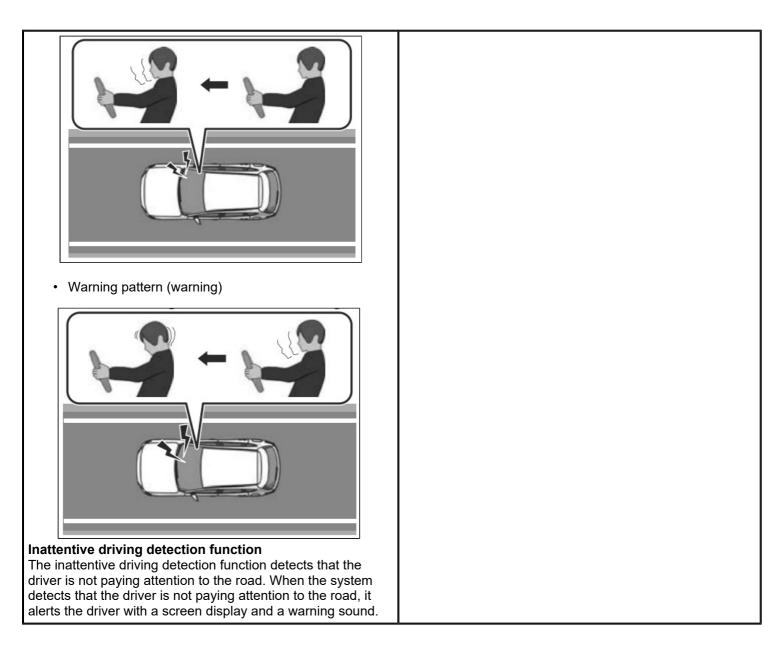
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Driver Attention Alert (DAA) System The DAA is a system that detects the driver fatigue and decreased attentiveness based on various types of vehicle information, and encourages the driver to take a rest using a screen display and warning sound.	Owner's Manual -> Driving -> Driver Attention Alert (DAA)
 Driver Monitoring (DM)* The DM is a system that detects dangerous conditions and behavior of the driver and notifies the driver of possible danger. The DM has two detection functions. Drowsiness detection function The drowsiness detection function detects the level of driver drowsiness. When the driver drowsiness is detected, the screen display and warning sound encourage the driver to take a rest. There are 2 levels of screen display and warning sound. Warning pattern (caution) 	Owner's Manual -> Driving -> Driver Monitoring (DM)

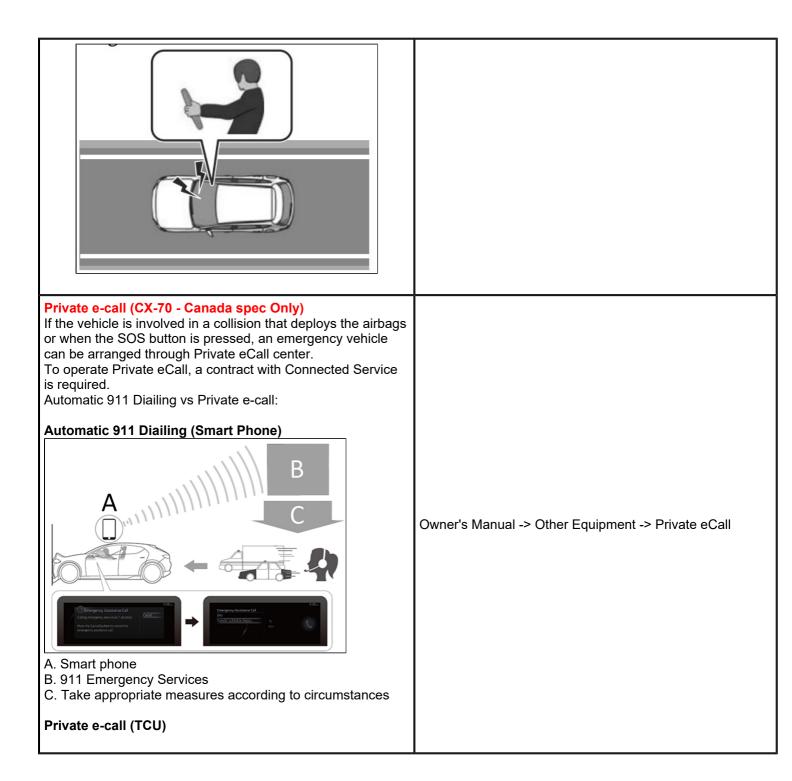
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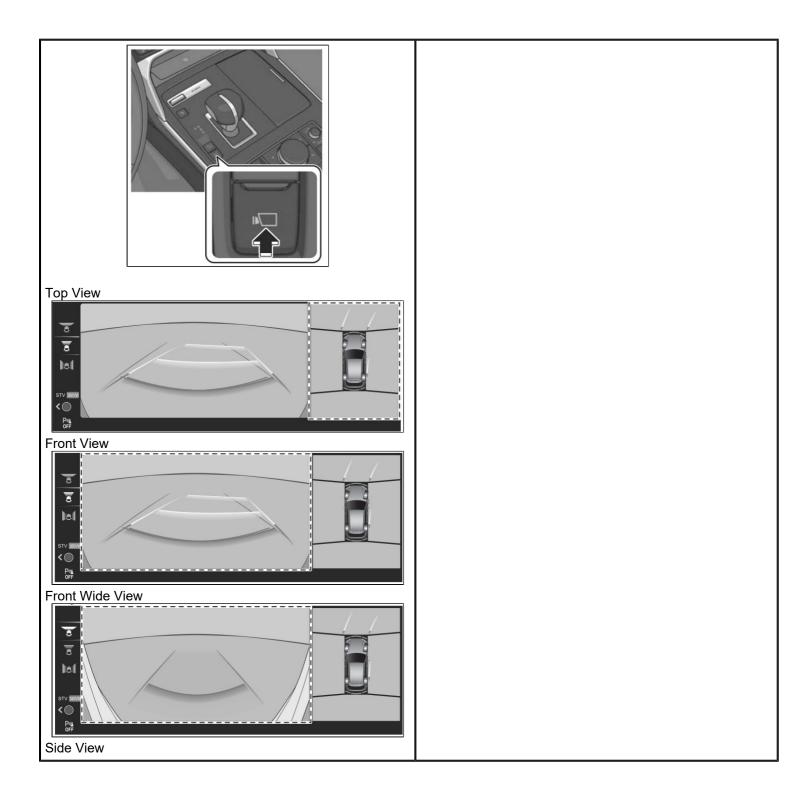


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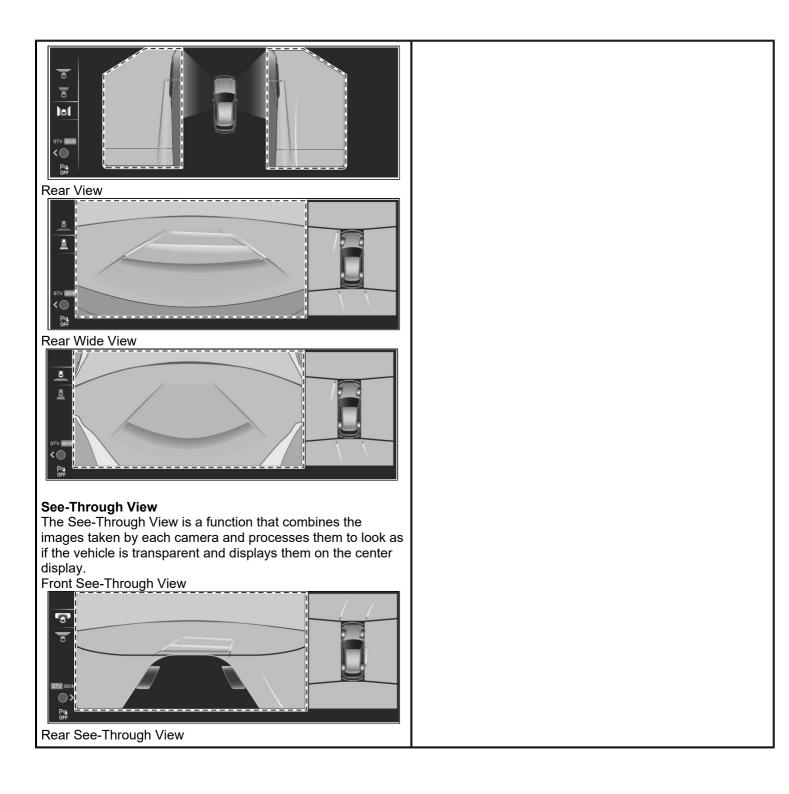
A Description of the second se	
SOS button The second state of the second sta	
Traffic Sign Recognition System (TSR)* The TSR is a system to notify the driver of traffic signs by displaying traffic signs on the screen which are recognized by the vehicle while driving.	Owner's Manual -> Driving -> Traffic Sign Recognition System (TSR)
360° View Monitor System The 360° view monitor is a system which assists the driver in checking safety by displaying the conditions around the vehicle on the center display when the vehicle is driven at low speeds or when the vehicle is parked or stopped.	Owner's Manual -> Driving -> 360° View Monitor
Display Button	

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Trailer Hitch View (CX-70 only) The Trailer Hitch View is a function that combines the image of the vehicle rear with the Trailer Hitch Guideline on the center display to facilitate alignment when hitching a trailer to the vehicle. Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. Image: Trailer Hitch View can be selected if equipped with a Mazda genuine trailer hitch. <	MGSS -> 360°VIEW MONITOR SYSTEM -> Trailer Hitch View Owner's Manual -> Driving -> 360° View Monitor -> Trailer Hitch View
Driver Personalization System* The Driver Personalization System recognizes the driver using the camera inside the vehicle and automatically restores the various driver settings that have been stored. The following 2 functions have been added depending on the grade and specification. Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver Image: Comparison of the driver <td>SA-061/23 - OPERATION OF DRIVER PERSONALIZATION SYSTEM Owner's Manual -> Equipment to Make Cabin More Comfortable -> Driver Personalization System MGSS -> DRIVER PERSONALIZATION SYSTEM</td>	SA-061/23 - OPERATION OF DRIVER PERSONALIZATION SYSTEM Owner's Manual -> Equipment to Make Cabin More Comfortable -> Driver Personalization System MGSS -> DRIVER PERSONALIZATION SYSTEM

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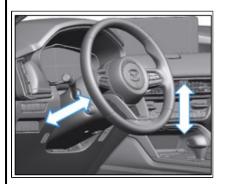
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rice Alert No.: SA-020/24	Last Issued : 04/23/2024	
ice Alert No.: SA-020/24	Last Issued : 04/23/2024	

Seat Position



• Steering Wheel Position



· Outside Mirror Position



Active Driving Display Position

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 Personalization feature settings Personalization feature settings Example: Entertainment System favorites Climate control settings NOTE: A driver needs to be programmed in advance to use this function Additionally, driver information that is no longer needed can be deleted. Entry/Exit Assist* This function automatically moves the seat and the steering wheel so that the driver can easily enter and exit the vehicle. 	
 MyMazda App The MyMazda App Remote Engine Start function <u>is</u> only available on H3T (inline 6) M Hybrid Boost models. The MyMazda App Remote Engine Start function <u>is</u> <u>not</u> available on PHEV (inline 4 2.5l) models. 	MGSS -> SA-038/23
Mazda Connected Vehicle Viewer (MCVV) The Mazda Connected Vehicle Viewer (MCVV) enhances the Mazda ownership experience by providing Mazda Service Advisors, Technicians and Call Center Associates access to real-time vehicle status information alerts for applicable Mazda connected vehicles. This powerful tool allows you to proactively understand and diagnose customer concerns and resolve potential issues, demonstrating how well you know the customer's vehicle while establishing your readiness and willingness to assist.	MAZDA CONNECTED VEHICLE VIEWER USER GUIDE (MCVV)

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Mazda intelligent Drive Select (Mi-Drive)* Mi-Drive is a system which switches the vehicle's drive mode depending on the driving conditions, road conditions, and vehicle conditions. Mi-Drive has the following driving modes. $\underbrace{Forward}_{Formal} \underbrace{Formal}_{Formal} \underbrace{Formal}_{Form$	See Owner's Manual -> Driving -> Mazda intelligent Drive Select (Mi-Drive)

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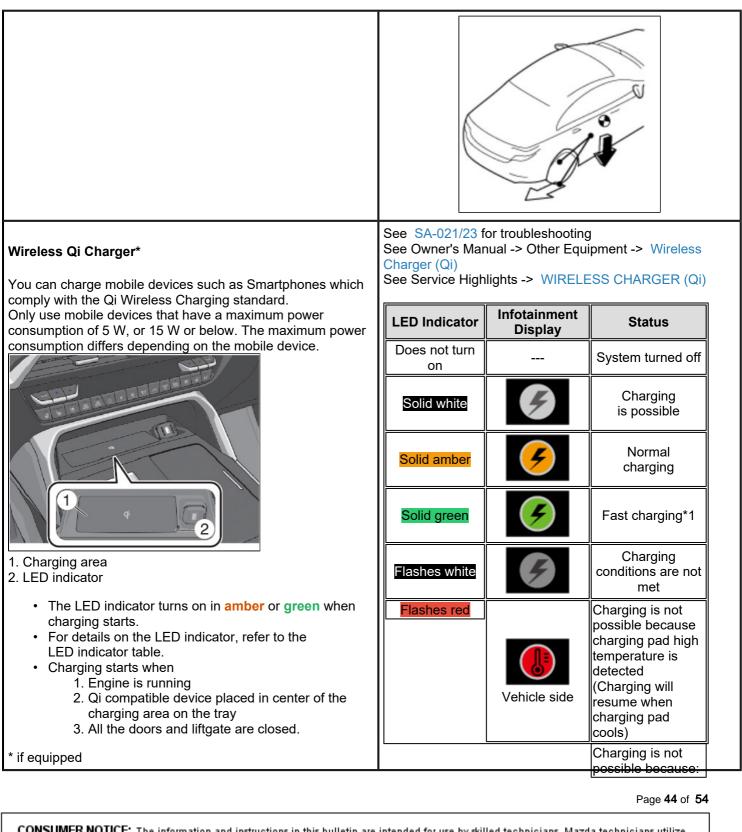
MI-DRIVE MI-DRIVE Normal mode	
This mode optimizes fuel efficiency.	
Sport mode	
This mode maximizes responsiveness. It increases vehicle response when the accelerator pedal is depressed and accelerates powerfully.	
Off-road mode	
 This mode maximizes running performance. It prevents the drive wheels from spinning during off- road driving and improves the running performance. 	
Towing mode*	
• This mode optimizes power performance. It reduces the loss of driving performance due to increased weight when towing a trailer and improves the vehicle stability.	
EV mode (PHEV)	
This mode enables pure electric driving.	
* if equipped	
Hill Descent Control The hill descent control is a system that maintains a constant vehicle speed when the vehicle descends a steep slope, off- road or on a snowy road. As the low speed can be maintained without operating the accelerator pedal or the brake pedal, the driver can concentrate on the steering wheel operation.	See Owner's Manual -> Driving -> Hill Descent Control

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AUTOHOLD is a function to keep the vehicle stopped by applying the brakes even if you take your foot off the brake pedal while the vehicle is stopped. This function reduces the burden on the driver while the vehicle is stopped, such as at traffic lights.	See Owner's Manual -> Driving -> AUTOHOLD
Hill Launch Assist (HLA) The HLA prevents the vehicle from rolling backward or forward, such as when releasing the brake pedal while on a slope.	See Owner's Manual -> Driving -> Hill Launch Assist (HLA)
 Kinematic Posture Control (KPC) Kinematic Posture Control (KPC) is a function that stabilizes the vehicle's turning posture by combining the rear suspension structure, which has the characteristic of pulling the vehicle down during braking, with the brake control. Braking control is performed to stabilize the turning 	See MGSS -> KINEMATIC POSTURE CONTROL (KPC)
posture in situations where high G is generated on the vehicle, such as during turning at high speed, tight cornering, or driving on rough road surfaces.	

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*1 Some mobile devices can switch between normal charging and fast charging.		Custome device issu	
	Solid red	\bigotimes	Problem with Wireless Charger (Qi)
	Use MGSS or GE equipped with illu		to determine if vehicle is
	MGSS -> Other	Application del / Y	-> Warranty Veh. Inq -> Mo ∕ear
	With illum	ination	No illumination
Liftgate Lens Illumination	• C90 S • C90 SPP	_	Except • C90 S • C90 SPP
Liftgate lens on higher trims illuminates when tail lights are on	• C90 SPP	P	• C90 SPPP
illuminates when tail lights are does not illuminate	Detail: • C90 S = 3 • C90 SPP	3.3 Turbo S = 3.3 Turbo S	
illuminates when tail lights are on tilluminate the son lower thins does not illuminate	Detail: • C90 S = 3 • C90 SPP • C90 SPP	3.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo	C90 SPPP Premium Package S Premium Plus Package
illuminates when tail lights are on tilluminate the son lower thins does not illuminate	Detail: • C90 S = 3 • C90 SPP • C90 SPP	8.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo GEPC (with V	C90 SPPP Premium Package S Premium Plus Package (IN)
illuminates when tail lights are on	Detail: • C90 S = 3 • C90 SPP • C90 SPP	3.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo GEPC (with V nination	C90 SPPP Premium Package S Premium Plus Package
illuminates when tail lights are on tilluminate the son lower thins does not illuminate	Detail: • C90 S = 3 • C90 SPP • C90 SPP	3.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo GEPC (with V nination <u>3</u> G0*	C90 SPPP Premium Package S Premium Plus Package (IN) No illumination
illuminates when tail lights are on	Detail: • C90 S = 3 • C90 SPP • C90 SPP • C90 SPP • C90 SPP • Mith illur Left KMV751 Right KMV751	3.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo GEPC (with V nination <u>3</u> G0* <u>3</u> F0* not interchan	C90 SPPP Premium Package S Premium Plus Package (N) No illumination KMV <u>6513</u> G0*
illuminates when tail lights are on tilluminate the son lower thins does not illuminate	Detail: • C90 S = 3 • C90 SPP • C90 SPP	3.3 Turbo S = 3.3 Turbo S P = 3.3 Turbo GEPC (with V nination <u>3</u> G0* <u>3</u> F0* not interchan shicle is equip	C90 SPPP Premium Package S Premium Plus Package No illumination KMV <u>6513</u> G0* KMV <u>6513</u> F0* geable. This method is used

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motion when both hands are occupied, such as when holding groceries or luggage.	
Remote Power Window Operation The windows can be opened for ventilating the cabin before getting in the vehicle. Press the unlock button on the key quickly and briefly 3 times and then immediately afterwards, press and hold the unlock button to open the windows. Image: Colspan="2">Image: Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2">Colspan="2"C	See Owner's Manual -> Opening / closing -> Windows -> Remote Power Window Operation
Electric Parking Brake (EPB) The EPB system applies the parking brake using a motor. NOTE If the parking brake is applied with the vehicle power switched to OFF or ACC, the EPB indicator light in the instrument cluster and the indicator light in the switch may turn on for a certain period of time. Applying the Parking Brake	See Owner's Manual -> Driving -> Electric Parking Brake (EPB)

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Service Alert No.: SA-020/24	Last Issued : 04/23/2024
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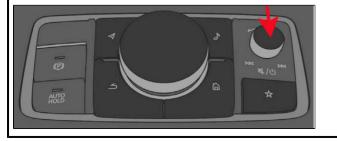
Releasing the Parking Brake.



MAZDA CONNECT Power Off Function



- Audio Mute: Short press the volume knob (press again to cancel)
- Power Off: Press and hold the volume knob (press and hold again to Power On)



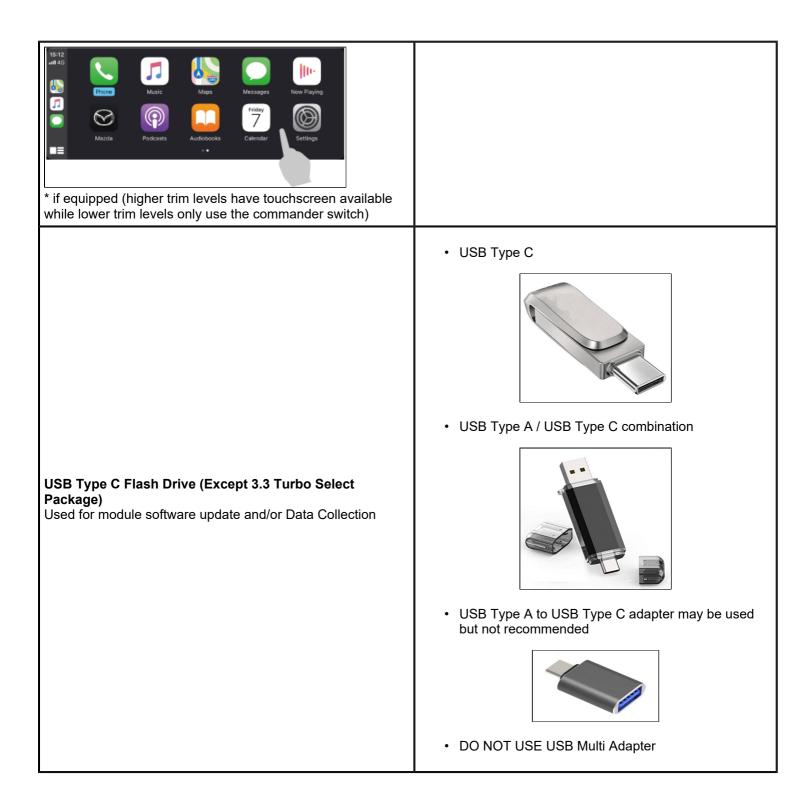
See Owner's Manual -> MAZDA CONNECT OWNER'S MANUAL -> Basic Operations -> Commander Switch Operation -> Power off/on

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Infotainment Touchscreen* enabled during Wireless Apple Carplay™ / Android Auto™ operation.	Owner's Manual -> MAZDA CONNECT OWNER'S MANAUL -> Apple Carplay [™] / Android Auto [™] Page 48 of 54
Wireless Apple Carplay™ / Android Auto™	Owner's Manual -> MAZDA CONNECT OWNER'S MANAUL -> Touch Panel Operation
 Connected Vehicle Contract Navi SD Card Initial setup (License Agreement) Good signal strength 	
**Requires:	
 Server based live search / traffic Up-to-date map Traffic More frequent update and detailed maps Map Update On-demand map update (4 times a year) 	
 POI Larger geographical area (surrounding states) Route 	
Online**	
 Operates same as previous Gen 7 Navi SD Card system 	
Mazda Online Navigation (CX-70 only) Online Navigation uses online data for Navigation. Users can access wider range of and more up-to-date information. Offline	
free telephone, and the audio functions, along others. In addition, Alexa's various functions (such as weather information, news functions, shopping and Smart Home) Cos Angeles, CA Wednesday, May 31, 2023	See SA-015/24 - ALEXA BUILT-IN FAQ Note: Requires Connected Vehicle Contract.
Alexa Built-In (CX-70 only) Alexa is a hands-free and easy to use, allowing the user to control vehicle functions with verbal commands while maintaining the driving posture. Alexa voice recognition can operate the navigation, hands-	

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	NOTE: 3.3 Turbo Select Package uses USB Type A
 Key Transmitter Power Saving Function "Power saving" function is built into the keyless entry system where some key fob functions are disabled. This feature could accidentally be enabled and some concerns with the vehicle may be: Engine does not start. Engine does not start unless you hold the fob to the start/stop button. Doors do not unlock using the door handle, but unlock with the remote. Doors do not lock using the door handle, but lock with the remote. Transmitter indicator light does not turn on/flash. 	See Owner's Manual -> Opening/closing -> Key -> Power saving function
Occupant Comfort* The driver and front passenger's seater warmers*, seat ventilation and the heated steering wheel* can be set to be automatically controlled (turned on and off) by the climate control system, depending on the set temperature. 1. Go to MAZDA CONNECT home screen and select "Settings" 2. Select "Vehicle Settings". 3. Select "Occupant Comfort".	See Owner's Manual -> Equipment to Make Cabin More Comfortable -> Occupant Comfort

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Vehicle Settings 10:13/m Rain-Sensing Wipers Automatic Folding Side Mirrors Turn Signals Rear Window Defogger Cocupant Comfort Use the sensitive of detailed Standard Comfort Rear Window Defogger Automatic Fold Comfort Rear Window Defogger Cocupant Comfort Rear Window Defogger Automatic Foundation Rear Window Defogger Cocupant Comfort Rear Window Defogger Automatic Foundation Rear Window Defogger Cocupant Comfort Rear Window Defogger Automatic Foundation Rear Window Defogger Cocupant Comfort Rear Window Defogger Automatic Foundation Rear Window Defogger Cocupant Comfort Rear Window Defogger Standard Rear Window Defogger Rear Window Defogger Rear Window Defogger Rear Window Defogger Rear Window Defoger Rear Window Defogger Rear Window Defoger Rear Window Defogger Rear Window Defoger	
Occupant Comfort Driver's Seat Temperature Passenger Seat Temperature Heated Steering Wheel Units the operation of Netrod Occupant Comfort It is the operation of Netrod Occupant Comfort Passenger Seat Temperature Detected Steering Wheel Detected Steering Wheel <tr< th=""><th></th></tr<>	
5. Select Climate Control Auto Switch	
*Rear Seat Alert	See Owner's Manual -> Opening/Closing -> Rear Seat Alert

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The Rear Seat Alert is a system that reminds the driver to check if any occupants or luggage have been left behind on the second/third-row seats. The system determines if there is the possibility that occupants or luggage are on a second/third-row seat based on the opening and closing history of the rear doors. For this reason, the system may operate differently from the actual conditions, such as it is not activated even if occupants or luggage are occupying a second/third-row seat.	
Connected Vehicle Maintenance Mode When vehicle is being serviced, switch to Restricted Transmitting Mode. • Restricts MyMazda App remote functions. • Prevents error messages being sent to the customer during vehicle service. Service Information Connected Device Information Backup Restore Personal Information Deletion TCU Linked Information Communication Restricted Mode Helpnet/TCU Information Cancel Restricted Transmitting Mode after completing vehicle service.	Go to MGSS SERVICE CAUTIONS FOR VEHICLES WITH TELEMATICS COMMUNICATION SYSTEM [(US)].

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Engine Maintenance Mode If the fuel has bot been replenished for a certain period of time and the quality of the fuel in the tank is expected to change, an "Engine Maintenance Mode" message is displayed in the instrument cluster when the hybrid system is started. When a certain amountof fuel is consumed, the message displayed is the instrument cluster is no longer displayed.	Engine Maintenance Mode
Front Wiper Service Position Start Procedure a) Switch the vehicle power ON. b) Switch the vehicle power OFF. c) Press up the wiper switch to the MIST position 2 times within 30 seconds after switching the vehicle power OFF. When the procedure is completed, the wipers operate and they stop at the service positions. End Procedure a) Make sure that the wipers are set on the windshield. b) Switch the vehicle power ON. c) Press up the wiper switch to the MIST position 2 times.	See Owner's Manual -> Inspection and Servicing/Cleaning -> Vehicle Exterior Inspection -> Replacing Front Windshield Wiper Blade rubbers
 Rear Brake Maintenance Mode When in maintenance mode, the clearance between the disc pad and the disc plate expands. Switching to Maintenance Mode -> See MAINTENANCE MODE found in MGSS. 	MGSS -> MAINTENANCE MODE

2023 CX-90 Mazda Brand Academy

Hybrid & EV Specialist Cerfitication			
Course	Description	Note	
40067	Hybrid & EV Safety Essentials	Current Certified Level requirement	
40068TST	Certification Test 6	Current Certified Level requirement	
40075	Hybrid & EV Theory of Operation	Current Senior Level requirement	
40072	Large Platform Introduction	New Hybrid & EV Specialist requirement	
40073	Large PlatformPowertrains	New Hybrid & EV Specialist requirement	
40074	Hybrid & EV Technology ILT	New Hybrid & EV Specialist requirement – Enrollment available upon completing prerequisites. Classes available beginning late May 2023.	

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	Prerequisites : Senior Certification, Electrical Specialty and courses 40072 and 40073
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