Mazda North American Operations Irvine, CA 92618-2922



Subject: CX-90 SERVICE CAUTIONS FOR NEW AND REVISED FEATURES Last Issued : 05/15/2023

BULLETIN NOTES

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

Previous SA:	Date(s) Issued:
SA-017/23	03/27/23

APPLICABLE MODEL(S)/VINS

2024 CX-90

DESCRIPTION

The CX-90 has 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) Temporary Process
- 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
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 - 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
 - PHEV 355V HVAC Compressor Oil
- Engine Oil Level Measurement (Infotainment Center Display)
- New FR-8EAT(Front Engine Rear Drive-8 Electrical Automatic Transmission)

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- Newly developed Transfer Case for All-Wheel Drive
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- i-ACTIVSENSE
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 - Rear Crossing
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 - Cruising & Traffic Support (CTS)
 - Distance & Speed Alert (DSA)
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 - Driver Attention Alert (DAA) System
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- Driver Personalization System
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- Transmission Selector Lever Operation Change
- Mazda intelligent Drive Select (Mi-Drive)
- Hill Descent Control
- AUTOHOLD
- Hill Launch Assist (HLA)
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- Wireless Qi Charger
- Liftgate Lens Illumination
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- MAZDA CONNECT Power Function
- Power Door Locks
- Proximity Type Auto Lock Function

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- Transmitter Battery Saving Function
- Keyless Entry Using Auxiliary Key
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Key Transmitter and Auxiliar Vehicles arrive at the dealer wi	y Key th auxiliary keys and key	
transmitters located in the front	t cup holders.	
200		SA-016/23 Temporary Lost Key Procedure
		See Owner's Manual -> Opening/closing -> Key
NOTE:		
 Key machine software u the CX-90. 	pdate coming soon to support	
Except CX-50, CX-90, 5 digit key code	CX-50, CX-90, 4 digit key code and a plastic bar code tag	

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Install the transmitter lower cover by inserting the tabs of the lower cover into the slots of the transmitter. Transmitter Note:	
 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-90 will have a 32 character immobilizer in and out codes. Incode retrevial (temporary process): Immobilizer (Code Word) via MGSS will not be available on initial vehicle launch. As we work on updating our systems to support CX-90 immobilizer code word, please submit your Immobilizer incode request using the Product Quality Monitoring (PQM) screen available when running a VIN in eMDCS.	Be sure to specify that you are requesting immobilizer incode along with a brief summary in the "Issue Feedback" field when submitting the PQM.

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Service A	Alert No.:	SA-017/23
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	Once received a New Product Launch (NPL) Specialist will contact your dealer to speak with the Technician and request the necessary information (shown below) to retrieve the incode. The goal is to provide the incode on this initial call and minimize vehicle down time. • Part number: • Serial/Authentication Number: • Error Control Number: • Outcode#1 (16 digits): • Outcode#2 (16 digits):
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 of an abnormality by sounding the horn and flashing the hazard warning lights. The system will not function unless it's properly armed. So when you leave the vehicle, follow the arming procedure correctly.	Owner's Manual -> Opening / Closing -> Security System - > Theft-Deterrent System
Mazda M Hybrid Boost (Inline 6 cylinder) M hybrid boost uses kinetic energy generated during deceleration to charge the M hybrid boost battery which generates power using a motor with excellent power generation efficiency. Using the electrical power stored in the M hybrid boost battery, a high-capacity storage battery, contributes to improved driving performance and fuel economy by reducing engine load and performing motor assist. In addition, restarting the engine from the istop status using the motor achieves quiet performance.	MGSS -> Mazda M Hybrid Boost
 Plug-In Hybrid Electric Vehicle (PHEV) System Outline (Inline 4 cylinder) The motor is integrated between the longitudinal engine and the transmission, and a two-clutch, one-motor parallel hybrid system that transmits drive force through the clutch has been adopted. A plug-in hybrid system that can be can be recharged from an external power source has been adopted 	MGSS -> EV SYSTEM OUTLINE

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NOTE:	
 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 agent into the refrigerant system, otherwise the 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. 	
Engine Oil Level Measurement (Infotainment Center	
Display)	
1. Make sure the hood is closed.	
 Select "Information" on the Home screen to display the 	
vehicle status monitor.	
4. Select "Vehicle Status Monitor".	
10:35am	
Information	
i-DM	
Fuel Efficiency Monitor Preview	
High Voltage Battery Monitor	
Owner's Manual	
Description	
5. Select "Engine Oil Level".	
10:35 _{am}	
Vehicle Status Monitor	
Vehicle Warning Messages	
Preview Preview	
Maintenance Details	
Vehicle Maintenance Settings	
Description	
6. Select "Measure Engine Oil Level".	
10:35 _{am}	
Measure Engine Oil Level Latest Measurement	
<	
Description	
beactpron	
7. Select "Start Measurement"	

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Distance & Speed Alert (DSA) ٠ Smart Brake Support (SBS) [forward sensing function] Smart Brake Support (SBS) [collision avoiding assist • system during turning] 2. Forward Side Sensing System Operation State Front Cross Traffic Alert (FCTA) 3. Lateral Side Sensing System Operation State Lane Departure Warning System (LDWS) Lane-Keep Assist System (LAS) Emergency Lane Keeping [road keep assist] (ELK) 4. Rear Side Sensing System Operation State Blind Spot Monitoring (BSM) ٠ Rear Cross Traffic Alert (RCTA) System • Smart Brake Support [Rear Crossing] (SBS-RC) Emergency Lane Keeping [blind spot assist] Page 20 of 53

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5. Rear Sensing System Operation State	
Smart Brake Support (SBS) [rear side sensing function]	
Smart Brake Support (SBS) 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 function* 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. Extended to a science of a collision The Turn-Across Traffic* The Turn-Across Traffic is designed to assist the driver in avoiding a collision with a vehicle approaching in the opposite	Owner's Manual -> Driving -> Smart Brake Support (SBS)

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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.



3. Front Crossing*

Front Crossing is designed to assist the driver in avoiding a collision at an intersection and reduce damage. If there is a possibility of a collision with a vehicle at an intersection, brake control is performed to avoid a collision or to reduce damage in the event of a collision.



Intersection accident avoidance assist function avoid collisions with objects (pedestrians and bicycles) when making a left or right 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 target

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Mazda Radar Cruise Control with Stop & Go Function System (MRCC) MRCC is a system that reduces load on the driver through constant speed and headway control. The function performs headway control to maintain the distance with a vehicle ahead at a constant preset speed without you having to depress the accelerator or brake pedal.	
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 Image: Note: Navigation SD Card is required	Owner's Manual -> Driving -> Mazda Radar Cruise Control (MRCC)
۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲0 ۲0 100 <	
 Manual (On) Off 0 mph (same as speed limit sign) 3 mph offset 5 mph offset 10 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)

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Image: constant speed/Headway control functionThe function performs headway control to maintain the distance with a vehicle ahead at a constant preset speed without you having to depress the accelerator or brake pedal.Steering wheel assist functionWhen 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 vehicle lane lines. When vehicle lane lines are not 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.	
<text></text>	Owner's Manual -> Driving -> Distance & Speed Alert (DSA)
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)

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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 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.	Owner's Manual -> Driving -> Emergency Lane Keeping (ELK)

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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.	
in the	
oncoming lane due to your vehicle departing from its lane the	
Head-on traffic avoidance assist assists your steering wheel	
operation to keep you in the original driving lane. In addition, a	
screen display and a warning sound notify the driver of the	
danger.	
High Beam Control System (HBC)* The HBC determines the conditions in front of the vehicle	Owner's Manual -> Driving -> High Beam Control System (HBC)

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while driving at night to automatically switch the headlights between high and low beams.	
Blind Spot Monitoring (BSM) System The BSM is a system that assists the driver in checking for vehicles at your rear when making a lane change. When a vehicle approaching from the rear is detected, various screen displays and warning sounds notify the driver of the danger.	Owner's Manual -> Driving -> Blind Spot Monitoring (BSM)
 Vehicle Exit Warning The vehicle exit warning is a system that assists the driver in checking the rear of the vehicle when exiting the vehicle. When a vehicle or bicycle approaching from the rear is detected, various screen displays and warning sounds notify the driver of the danger. Detectable Scenes Bicycle approaches from the rear side 	

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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.	
Rear Cross Traffic Alert (RCTA) System The RCTA assists the driver in checking the area to the rear of the vehicle, such as while reversing out of a parking space. When a vehicle approaching from the rear on the left or right is detected, various screen displays and warning sounds notify the driver of the danger. Image: Comparison of the danger. Image: Compare: Comparison of the danger.	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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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. Display Button Display Button	Owner's Manual -> Driving -> 360° View Monitor
Top View	

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See-Through View The See-Through View is a function that combines the images taken by each camera and processes them to look as if the vehicle is transparent and displays them on the center	
display. Front See-Through View	
Rear See-Through View	
Driver Personalization System*	
using the camera inside the vehicle and automatically restores the various driver settings that have	Owner's Manual -> Equipment to Make Cabin More Comfortable -> Driver Personalization System
been stored.	MGSS -> DRIVER PERSONALIZATION SYSTEM
grade and specification.	

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Outside Mirror Position

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H	
 Active Driving Display Position 	
78 •80	
 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.	
Mazda Connected Vahiola Viewar (MC)(1/)	
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.	MAZDA CONNECTED VEHICLE VIEWER USER GUIDE (MCVV)
This powerful tool allows you to proactively understand and diagnose customer concerns and resolve potential issues, demonstrating how well you know the customer's	

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vehicle while establishing your readiness and willingness to assist.	
P R Image: Transmission Selector Lever CX-90 Image: P R Image: Transmission Selector Lever 1. Selector lever button 2. Shift indicator	See Owner's Manual -> Driving -> Selector Lever -> Operating the Selector Lever

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cx-9	
Mazda intelligent Drive Select (Mi-Drive)*	
<image/> <text><text><image/></text></text>	See Owner's Manual -> Driving -> Mazda intelligent Drive Select (Mi-Drive)

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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
AUTOHOLD AUTOHOLD is a function to keep the vehicle stopped by	See Owner's Manual -> Driving -> AUTOHOLD

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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.	
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)
Wireless Apple Carplay [™] / Android Auto [™] Infotainment Touch Screen enabled during Wireless Apple Carplay [™] / Android Auto [™] operation.	Owner's Manual -> MAZDA CONNECT OWNER'S MANAUL -> Touch Panel Operation Owner's Manual -> MAZDA CONNECT OWNER'S MANAUL -> Apple Carplay™ / Android Auto™
Wireless Qi Charger* You can charge mobile devices such as Smartphones which comply with the Qi Wireless Charging standard. Only use mobile devices that have a maximum power consumption of 5 W, or 15 W or below. The maximum power consumption differs depending on the mobile device.	See SA-028/22 for troubleshooting See Owner's Manual -> Other Equipment -> Wireless Charger (Qi) See Service Highlights -> WIRELESS CHARGER (Qi) Indicator Infotainment Display Solid white Image: Charging is possible

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	Solid amber	6	Normal charging	
	Solid green	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	Fast charging*1	
	Flashes white		Charging conditions are not met	
 1. Charging area 2. LED indicator The LED indicator turns on in amber or green when 			Charging is not possible because high temperature	
 charging starts. For details on the LED indicator, refer to the LED indicator table. Charging starts when Engine is running Qi compatible device placed in center of the charging area on the tray All the doors and liftgate are closed. 	Flashes red		is detected Charging is not possible because foreign matter is detected	
 * if equipped *1 Some mobile devices can switch between normal charging and fast charging. 	Solid red	\bigotimes	Problem with Wireless Charger (Qi)	
	Use MGSS of equipped with	or GEPC with V th illumination:	IN to determine	e if vehicle is
Liftgate Lens Illumination	MGSS -> Other Application -> Warranty Veh. Inq > Model / Year			y Veh. Inq -
Liftgate lens on higher trims Liftgate lens on lower trims	With ill	umination	No illum	ination
on does not illuminate			Exce	ept
	C90 C90 C90	S SPP SPPP	 C90 S C90 SF C90 SF 	р рр
	Detail: • C90 S = 3.3 Turbo S • C90 SPP = 3.3 Turbo S Premium Package • C90 SPPP = 3.3 Turbo S Premium Plus			

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	Package			
	GEPC (with VIN)			
	LEπ KMV <u>7513</u> GU [*] KMV <u>6513</u> GU*			
	NOTE: Parts are not interchangeable. This method to determine if vehicle is equipped with illumination.			
Power Liftgate Hands-free function* The liftgate can be opened and closed by doing a kicking motion when both hands are occupied, such as when holding groceries or luggage.	See Owner's Manual -> Opening / closing -> Liftgate -> Hands-free function			
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.	See Owner's Manual -> Opening / closing -> Windows Remote Power Window Operation			

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Power Door Locks	
 The doors cannot be unlocked using the outside door handle touch sensor. The door handle touch sensor system may not operate normally under the following conditions: The front passenger (without key) grabs and holds the outside door handle before the driver (with key) touches the drivers outside door handle unlock touch sensor. The driver touches the sensing area of the door lock touch sensor and the sensing area of the door release touch sensor at the same time. 	See Owner's Manual -> Opening/closing -> Doors
Proximity Type Auto Lock Function You can set the vehicle to lock automatically when you leave the detection area of the touch sensor. A sound is activated one time when closing all the doors and the liftgate while the key is being carried. If you proceed to leave the operation range, the vehicle is locked automatically (it is locked automatically after about 30 seconds	See Owner's Manual -> Opening/closing -> Doors -> Proximity Type Auto Lock Function

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Service	Alert No.:	SA-017/23
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 even if you do not leave the operation range). NOTE However, they are not locked under the following conditions. Another key is left inside the vehicle. The driver's door is already locked.s. 		
Operational Ra	ange	
Scenarios White	Reason	Solution
Key transmitter is outside of antenna range while any of the doors have not been closed.	By the time all the doors are closed, the key transmitter is already out of operational range, causing walk- away lock to not function.	Always make sure the key transmitter holder is in operational range and is the last person to leave after all doors/trunk/ liftgate are closed.
Key transmitter holder exits driver's door then opens	 Depending on the key transmitter holder's distance to the 	Be mindful of the key holder's position in relation to the door exterior

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ear left door o retrieve ems.	 antenna when he/ she is closing the driver side rear door, the walk-away lock may or may not function. If standing closer to the rear bumper area when closing the rear door, the key transmitter may be out of the operational range, causing walk- away lock to not function. If standing closer to the B-pillar when closing the rear door, the walk-away 	antenna (31 in).	
smitter	 away lock to not function. If standing closer to the B-pillar when closing the rear door, the walk-away lock should function correctly. If the key transmitter holder is in a hurry to get out of the car and leaves the operational range too quickly before the audio beep, the walkaway lock function may not 	Slow down and make sure the audio beep sounds before leaving the operational range, the audio beep sound	
moves out of operational range too quickly.	 function may not work. The key transmitter holder opens the driver's door, gets out, and walks away at a fast pace while shutting the door. It is possible that by the time the door is 	will always sound to alert the key transmitter holder that the key was detected for walk-away door lock function.	

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completely shut, the key transmitter holder is already out of operational range because she/he is moving away too fast, causing walk- away lock to not function.		
 Key Transmitter Power Saving Function The CX-90 has a "power saving" function built into the keyless entry system where <u>some</u> 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
Keyless Entry Using Auxiliary Key If the vehicle battery is discharged and/or the key battery is dead, vehicle entry is possible using the auxiliary key.		See Owner's Manual -> What to Do in Case of Emergency -> Key Does Not Operate -> Unlocking Using the Auxiliary Key
Occupant Comfort*		See Owner's Manual -> Equipment to Make Cabin More

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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	Go to MGSS SERVICE CAUTIONS FOR VEHICLES WITH TELEMATICS COMMUNICATION SYSTEM [(US)].
 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 1.Switch the ignition ON (engine off). 2.Depress the brake pedal and then press the electric parking brake switch to release the parking brake. 3.Release the brake pedal, switch to depressing the accelerator pedal and depress it until the kickdown switch is depressed, and then hold it there. 4.Press down the electric parking brake switch and hold it in that condition. 	MGSS -> MAINTENANCE MODE

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 5.Within 5 seconds, perform the following steps : (1)SWITCH IGNITION OFF. (2)Switch the ignition to ACC. (3)Switch the ignition ON (engine off). 6.Verify that the brake control system warning light turns on in amber and the mode transitions to maintenance mode. 7.Turn off the engine switch and open the accelerator pedal and the electric parking brake switch. 	
Ending Maintenance Mode 1.Switch the ignition ON (engine off). 2.Depress the accelerator pedal fully and hold it. 3.Pull up the electric parking brake switch and hold it in that condition. 4.Within 5 seconds, perform the following steps : (1)SWITCH IGNITION OFF. (2)Switch the ignition to ACC. (3)Switch the ignition ON (engine off). 5.Verify that the brake control system warning light turns on in amber and the mode is finished maintenance mode. 6.Switch the main power OFF and release the accelerator pedal and the electric parking brake switch	
USB Type C Flash Drive (Except 3.3 Turbo Select Package) Used for module software update and/or Data Collection	<image/>

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

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