GROUP	MODEL
Product Improvement	**2024-2026MY EV9 (MV1, MV1a)**
NUMBER	DATE
PI2502 (Rev 1, 1/09/2026)	**November 2025**

TECHNICAL SERVICE BULLETIN

SUBJECT:

WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)

📄 NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information to install enhanced windshield wiper software that provides drivers with additional warnings related to the use of the windshield wipers during winter conditions on all 2024-2025 MY and certain 2026 MY EV9 (MV1, MV1a) vehicles manufactured from September 25, 2023, through October 31, 2025. The enhanced software detects obstructed windshield wipers and provides advance messages to remind the driver to check for any obstructions such as snow/ice in the windshield wiper area.

Follow the procedure outlined in this publication to apply the software updates to the CLU and BDC modules. Refer to SST081 for software upgrade instructions using the Kia Diagnostic System (KDS) tablet and VCI-II, and confirm the Upgrade Event Number/Name, ROM ID Information, and Manual Mode passwords (if applicable) on the applicable vehicle. Additionally, for vehicles in dealer stock, a label with updated information regarding these warning messages will be placed over certain existing information of the vehicle's owner's manual.

Model	Production Date Range
EV9 (MV1)	September 25, 2023 to October 15, 2024
EV9 (MV1a)	May 17, 2024 to October 31, 2025

"Wipers **may be disabled**. Turn off vehicle, open hood, and clear snow from wiper area & roof."

Wipers may be disabled. Turn off vehicle, open hood, and clear snow from wiper area & roof.

"Wipers **disabled**. Stop safely, turn off vehicle, open hood, clear snow from wiper area & roof."

Wipers disabled. Stop safely, turn off vehicle, open hood, clear snow from wiper area & roof.

📄 NOTICE

A Product Improvement Campaign is a repair program with customer notification. There is no charge to the vehicle owner for this repair.
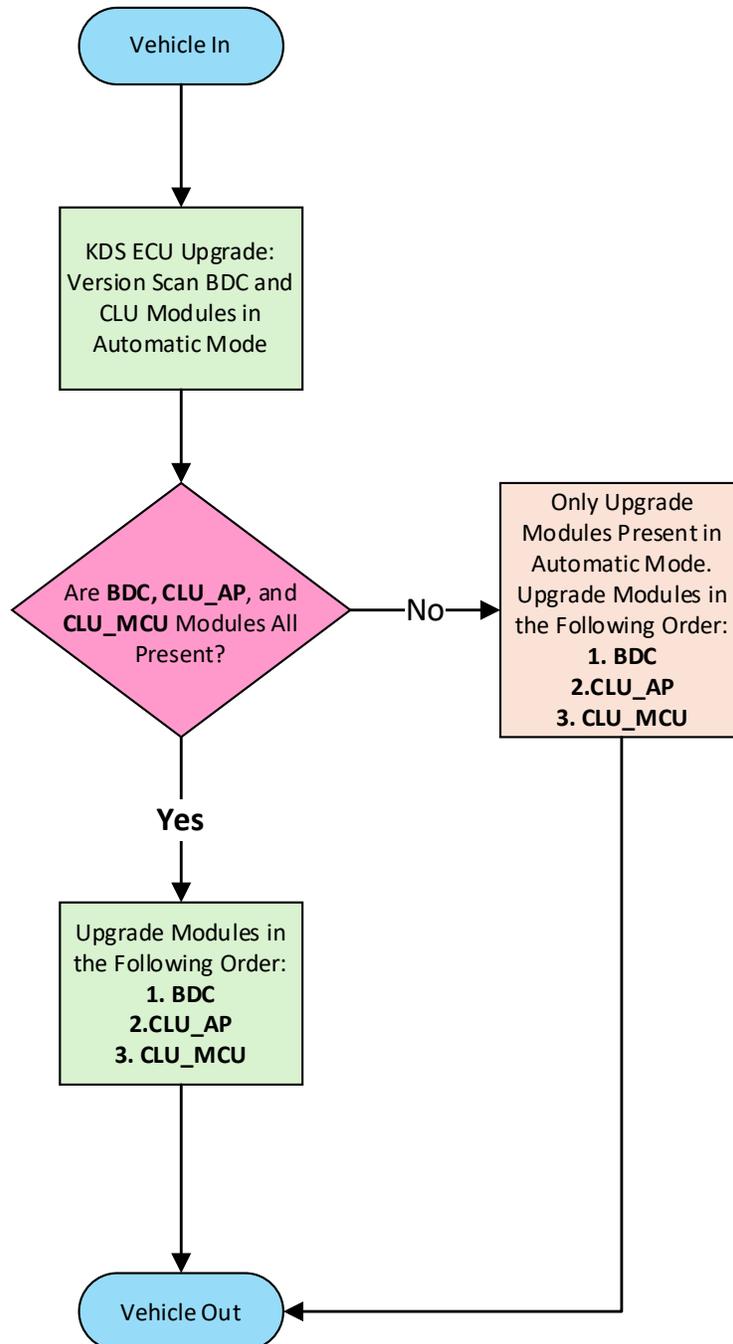
Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

This issue number is PI2502.

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Flowchart:

> ⓘ **IMPORTANT**
>
> On certain vehicles, not all modules will require all three (3) software updates. Perform updates only on the modules that appear when running Auto Mode AND, in the following order.

```
        ┌──────────────┐
        │  Vehicle In  │
        └──────┬───────┘
               │
               ▼
    ┌──────────────────────┐
    │ KDS ECU Upgrade:     │
    │ Version Scan BDC and │
    │ CLU Modules in       │
    │ Automatic Mode       │
    └──────────┬───────────┘
               │
               ▼
         ◆ Are BDC, CLU_AP, and
           CLU_MCU Modules All      ──No──►  Only Upgrade Modules Present in
           Present? ◆                         Automatic Mode. Upgrade Modules in
               │                              the Following Order:
             Yes                              1. BDC
               │                              2. CLU_AP
               ▼                              3. CLU_MCU
    ┌──────────────────────┐
    │ Upgrade Modules in   │
    │ the Following Order:  │
    │ 1. BDC               │
    │ 2. CLU_AP            │
    │ 3. CLU_MCU           │
    └──────────┬───────────┘
               │
               ▼
        ┌──────────────┐
        │ Vehicle Out  │◄─────────────────────────┘
        └──────────────┘
```

SUBJECT:	WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)

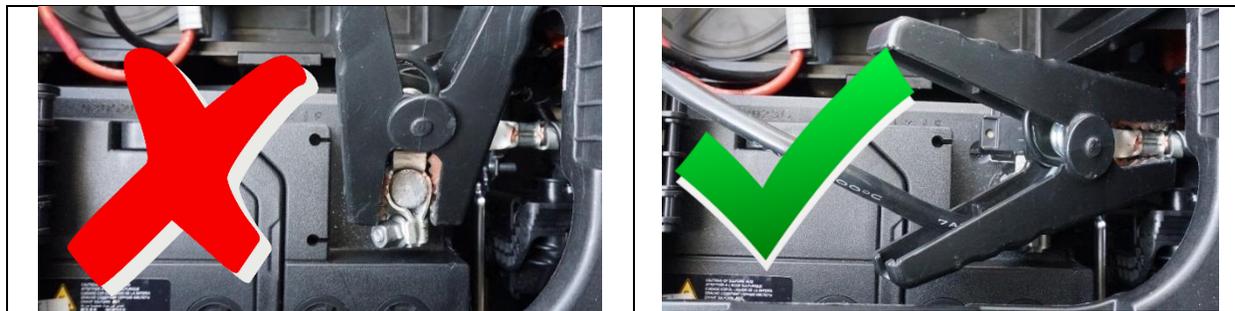### Refer to TSB SST081 for instructions to upgrade the 'BDC' and 'CLU' systems:

To correct this condition, the specified system module should be reprogrammed using KDS as described in this bulletin in 'Auto Mode'.

Model	Upgrade Event Name
MV1	880. MV1 (GT) BDC Upgrade for Wiper Operation Logic Improvement
	881. MV1 (GT) CLU Upgrade for Wiper Operation Logic Improvement (MCU)
	882. MV1 (GT) CLU Upgrade for Wiper Operation Logic Improvement (AP)
MV1a	883. MV1a BDC Upgrade for Wiper Operation Logic Improvement
	884. MV1a CLU Upgrade for Wiper Operation Logic Improvement (MCU)
	885. MV1a CLU Upgrade for Wiper Operation Logic Improvement (AP)

> **📄 NOTICE**
>
> - Confirm a fully charged battery (12.3 volts or higher is necessary) is used or utilize a fully charged jump starter box connected to the battery.
> - Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.
> - All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
> - Damaged VCI II units should not be used and promptly replaced.
> - Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
> - DO NOT start the engine during ECU upgrade.
> - DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
> - When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.
> - ONLY use approved ECU upgrade software designated for the correct application.

Connect the negative (-) terminal to the battery as shown below.

> **📄 NOTICE**
>
> Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer 🔒 security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

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ROM ID Information Table:

> **📄 NOTICE**
>
> Some vehicles may already be equipped with updated modules. Do not perform updates on any module that does not appear during the version scan in automatic mode.

> **ⓘ IMPORTANT**
>
> It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.

Upgrade Event #880 MV1 BDC:

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1)	BDC	Yes	95400 DO500 95400 DO510	1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70	2.80

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

Upgrade Event #881 MV1 MCU:

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1)	MCU	Yes	940C3 DO010 940C3 DO050	CP12_M.MCU.KMC.ALL.0000.V004.050.240905	CP12_M.MCU.KMC.ALL.0000.V004.050.250924
			940C3 DO200 940C3 DO210	CP12_M.MCU.KMC.ALL.0000.V014.093.241119	CP12_M.MCU.KMC.ALL.0000.V014.093.250812
EV9 (MV1)			940C3 DO110 940C3 DO160	CP12_M.MCU.KMC.ALL.0000.V014.093.241216	CP12_M.MCU.KMC.ALL.0000.V014.093.250822

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

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Upgrade Event #882 MV1 AP:

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1)	AP	Yes	940C3 DO010 940C3 DO050	CP12_M.AP.KMC.ALL.00 00.V014.089.240905	CP12_M.AP.KMC.ALL.000 0.V014.089.251014
			940C3 DO200 940C3 DO210	CP12_M.AP.KMC.ALL.00 00.V014.089.241122	CP12_M.AP.KMC.ALL.000 0.V014.089.251014
EV9 (MV1)			940C3 DO110 940C3 DO160	CP12_M.AP.KMC.ALL.00 00.V014.089.250122	CP12_M.AP.KMC.ALL.000 0.V014.089.251014

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

Upgrade Event #883 MV1a BDC:

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1a)	BDC	Yes	95400 XA000	1.10 1.20 1.30	1.40

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

Upgrade Event #884 MV1a MCU :

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1a)	MCU	Yes	940C3 XA000	CP12_M.MCU.KMC.ALL.0 000.V014.093.240807	CP12_M.MCU.KMC.ALL.0 000.V014.093.250924
			940C3 XA200	CP12_M.MCU.KMC.ALL.0 000.V014.093.241119	CP12_M.MCU.KMC.ALL.0 000.V014.093.250812

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.
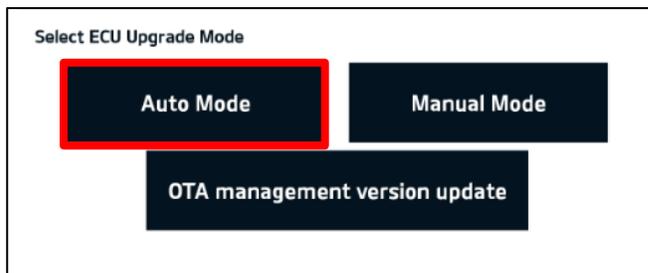
SUBJECT:

WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)

Upgrade Event #885 MV1a AP:

Model	System	IMMO 🔑	ECU P/No.	ROM ID	
				Previous	New
EV9 (MV1a)	AP	Yes	940C3 XA000	CP12_M.AP.KMC.ALL.0000.V014.089.240905	CP12_M.AP.KMC.ALL.0000.V014.089.251014
			940C3 XA200	CP12_M.AP.KMC.ALL.0000.V014.089.241122	CP12_M.AP.KMC.ALL.0000.V014.089.251014

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

ⓘ IMPORTANT

The software update may also be available via Over-The-Air (OTA) upgrade feature through an 'active' Kia Connect account for customers. An OTA software upgrade may not be available at the time a TSB publication is released. Dealers can confirm OTA availability by checking for OTA release notes on the Kia Owners Portal: OTA Software Update Release Notes.
Note: An OTA installed software is time-stamped for each VIN.

Software Information:

The required software must be installed by selecting the 'Auto Mode' ECU Upgrade option.

Note: In some case, the 'Manual Mode' installation option may be required ONLY if the 'Auto Mode' function fails or is otherwise noted above.

📄 NOTICE

If the automatic upgrade fails, turn the ignition 'OFF' for about 10 seconds then place it back in the 'ON' position to reset the control unit BEFORE performing the manual upgrade.

SUBJECT: **WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)**

'Manual Mode' passwords.

Event #880 - EV9 (MV1)

Menu	Password
MV1 (GT) BDC : 95400-DO500/510	0510

Event #881 - EV9 (MV1)

Menu	Password
MV1 CLU (MCU) : 940C3-DO200/210	0210
MV1 GT CLU (MCU) : 940C3-DO110/160	0160
MV1 GT CLU (MCU) : 940C3-DO010/050	0050

Event #882 - EV9 (MV1)

Menu	Password
MV1 CLU (AP) : 940C3-DO200/210	0120
MV1 GT CLU (AP) : 940C3-DO110/160	0610
MV1 GT CLU (AP) : 940C3-DO010/050	0500

Event #883 - EV9 (MV1a)

Menu	Password
MV1a BDC : 95400-XA000	4000

Event #884 - EV9 (MV1a)

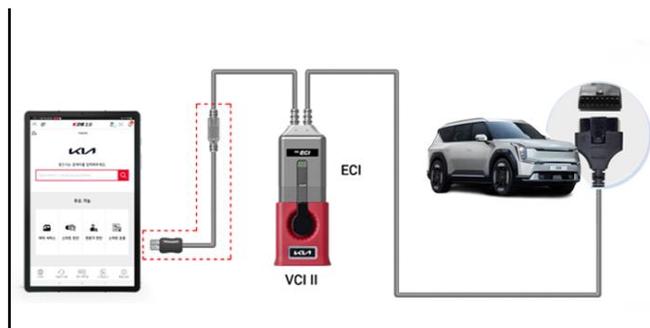| Menu	Password
MV1a CLU (MCU) : 940C3-XA200	0023
MV1a CLU (MCU) : 940C3-XA000	0003

Event #885 - EV9 (MV1a)

Menu	Password
MV1a CLU (AP) : 940C3-XA200	9403
MV1a CLU (AP) : 940C3-XA000	3000

Ensure the ECI cable is configured by referring to the 'KDS Configuration for ECI Cable Usage'.

Connect the ECI DLC connector to the OBD-ll connector, located under the driver's side of the instrument panel.

Connect the ECI USB -C connector to the KDS tablet.

Connect the VCI ll to the ECI OBD-ll connector.

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UPGRADE EVENT:

Select the applicable **'BDC' system** module and the Event Group.

EV9 (MV1)
- **880.MV1 (GT) BDC Upgrade for Wiper Operation Logic Improvement**

  Or

EV9 (MV1a)
- **883.MV1a BDC Upgrade for Wiper Operation Logic Improvement**

Select the applicable **'CLU' system** module and the Event Group.

EV9 (MV1)
- **881.MV1 (GT) CLU Upgrade for Wiper Operation Logic Improvement (MCU)**

  And

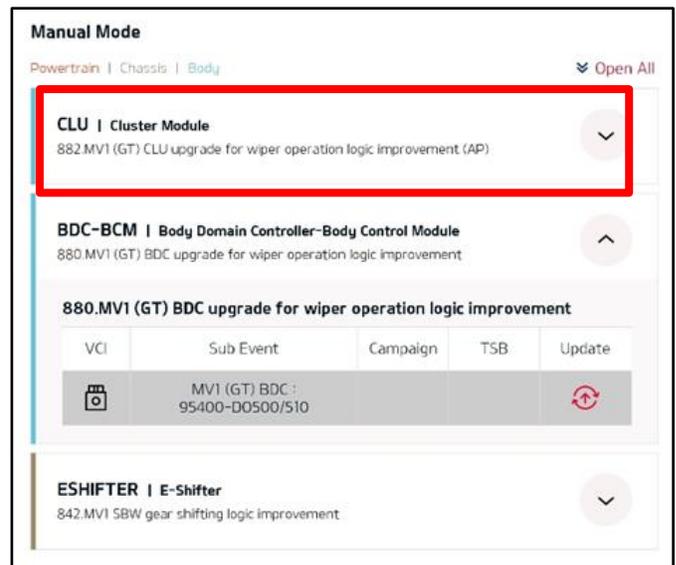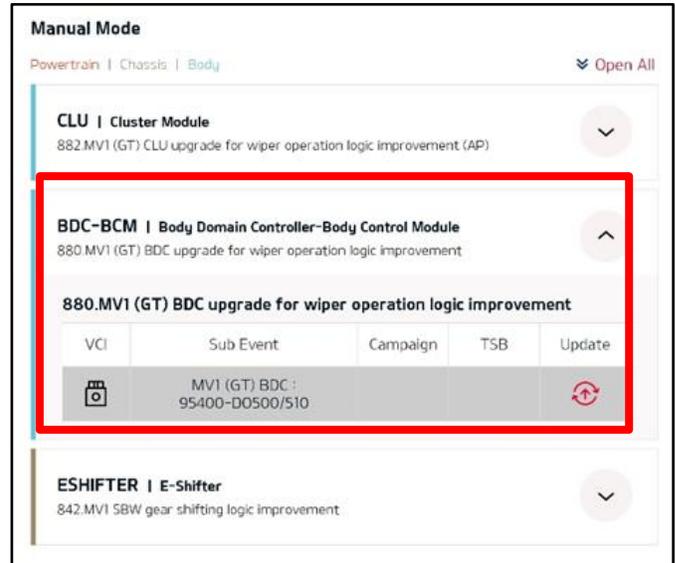- **882.MV1 (GT) CLU Upgrade for Wiper Operation Logic Improvement (AP)**

  Or

EV9 (MV1a)
- **884.MV1a CLU Upgrade for Wiper Operation Logic Improvement (MCU)**

  And

- **885.MV1a CLU Upgrade for Wiper Operation Logic Improvement (AP))**

Verify the affected vehicle Calibration Identification of the applicable ECU ROM ID and reference the Information Table on page 4 as necessary.

ⓘ **IMPORTANT**

On certain vehicles, not all modules will require all three (3) software updates. Perform updates only on the modules that appear when running Auto Mode AND, in the order shown on the flowchart, on page 2.

KIA

AFFECTED VEHICLE RANGE:

Model	Production Date Range
EV9 (MV1)	September 25, 2023 to October 14, 2024
EV9 (MV1a)	May 17, 2024 to October 31, 2025

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
Kia Diagnostic System (KDS)	N/A		KDS + VCI
ECI Adapter	GIT1XDDMN057 or GIT0XDDMN052		Located in Toolbox #1 Drawer 8

REQUIRED PART:

Part Name	Part Number	Figure	Comments
Owners Manual Label	UT160 PI2502		Apply Label to Dealer Stock VINs, section 5; "Wipers and Washers" of the owners manual.

Note: If a label is not available, refer to the last page of this Technical Service Bulletin (TSB) for instructions on printing the label. After printing, apply the label to Dealer Stock VINs in Section 5: "Wipers and Washers" of the Owner's Manual.

Please be advised that the required part for this repair is currently under PartsEye ordering control. Dealers must follow the instructions outlined in Parts Bulletin MI-25-08R2 for proper ordering procedures.

SUBJECT: WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)

WARRANTY INFORMATION:

N Code: N99   C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
MV1 VIN K (Korea)	V	95400 DO500	0	(PI2502) Software Version Inspection	250205R0	0.2 M/H	N/A	0
				(PI2502) Software Version Inspection + (CLU) and (BDC) SW Logic Improvement	250205R1	0.5 M/H		
MV1a VIN 5 (USA)		95400 XA000		(PI2502) Software Version Inspection	250A59R0	0.2 M/H		
				(PI2502) Software Version Inspection + (CLU) and (BDC) SW Logic Improvement	250A59R1	0.5 M/H		

Note: Refer to **Warranty Bulletin 2025-34** for claim submission procedures. For Substitute Transportation policy, please refer to **Service Policy and Procedures Manual (SPPM) 6.11 "Kia Substitute Transportation".**

> 📄 **NOTICE**
>
> **VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference PI2502 when accessing the KDealer+ system.**

WINDSHIELD WIPER LOGIC IMPROVEMENT (PI2502)

SUBJECT:

📄 NOTICE

DEALER STOCK ONLY - Owner's Manual Label Installation

After completing the software updates on vehicles in dealer stock, affix a label to Section 5: "Wipers and Washers" of the Owner's Manual. **If a label is not available, print this page, cut along the red dotted line, and attach the label to the Owner's Manual using clear tape.**

⚠ CAUTION

If there is heavy accumulation of snow or ice on the windshield, remove it before operating the wipers, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers. If you do not remove the snow and/or ice before using the wiper and washer, it may damage the wiper and washer system.

⚠ WARNING

Do not use the washer in freezing temperatures without first warming the windshield with the defroster; the washer solution could freeze on the windshield and obscure your vision.

✳ NOTICE

- Before driving, clear all accumulated snow and/or ice from the roof and wiper area.
- If the wipers remain outside the normal stop position due to accumulated snow or other obstruction, a warning "Wipers may be disabled. Turn off vehicle, open hood, and clear snow from wiper area & roof" may appear. Follow the message and resume operation.
- If the wipers stop operating due to accumulated snow or other obstruction, the warning "Wipers disabled. Stop safely, turn off vehicle, open hood, clear snow from wiper area & roof" will appear. This is normal, temporary, and not a failure. It is a safety feature to prevent vehicle accidents and wiper damage from overloading the wiper motor. If this occurs, pull over to a safe location, park and turn off the vehicle, open the hood and remove the snow and/or other obstruction from around/below the wiper area and roof. Operate the wipers to ensure proper wiper operation.

Cut along the red dotted line and attach the label to the 'Owner's Manual' on the Windshield Wipers section of Chapter 5 using clear tape.

Features of your vehicle | Wipers and washers

- OFF: Wiper is not in operation
- INT: Wiper operates intermittently at the same wiping intervals. Use this mode in light rain or mist. To vary the speed setting, turn the speed control knob.
- LO: Normal wiper speed
- HI: Fast wiper speed

✳ NOTICE

If there is heavy accumulation of snow or ice on the windshield, remove it before operating the wipers, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers. If you do not remove the snow and/or ice before using the wiper and washer, it may damage the wiper and washer system.

⚠ WARNING

Do not use the washer in freezing temperatures without first warming the windshield with the defroster; the washer solution could freeze on the windshield and obscure your vision.

✳ INFORMATION

If you operate the wipers while driving on snowy roads, the wipers may stop due to snow buildup on your windshield. This is normal and not a failure. It is a safety feature to prevent vehicle accidents and wiper damage from overloading the wiper motor. If the wipers stop, pull over and remove snow accumulated on the windshield before using them.

Auto control

The rain sensor (A) located on the upper edge of the windshield senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops.

To vary the speed setting, turn the speed control knob (B).

If the wiper switch is set in AUTO mode when the EV button is on, the wiper will operate once to perform a self-check of the system. Set the wiper to OFF position when the wiper is not in use.

⚠ WARNING

When the EV button is on and the windshield wiper switch is placed in the AUTO mode, use caution in the following situations to avoid any injury to the hands or other parts of the body:

- Do not touch the upper end of the windshield glass facing the rain sensor.
- Do not wipe the upper end of the windshield glass with a damp or wet cloth.
- Do not put pressure on the windshield glass.

⚠ CAUTION

- When washing the vehicle, set the wiper switch in the OFF position to stop the auto wiper operation.

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Printed document copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

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