

ATTENTION:
 GENERAL MANAGER
 PARTS MANAGER
 CLAIMS PERSONNEL
 SERVICE MANAGER

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.

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QUALITY DRIVEN® SERVICE

SERVICE INFORMATION BULLETIN

APPLICABILITY: 2023 Ascent

NUMBER: 18-233-23

SUBJECT: Service Manual Correction / 360 Surround Multiview Monitor

DATE: 01/03/23

INTRODUCTION:

This Service Information Bulletin announces additional information regarding the 360 Surround Multiview Monitor on Ascent models. There will be multiple corrections in the following areas:

1. Diagnostic Trouble Code list.
2. Additional work procedures are required when replacing the Multiview Control Module.
3. Correction and addition of reference images displayed during Multiview Monitor malfunction.

Review the information outlined in this bulletin prior to proceeding with any Multiview Monitor diagnostic procedures.

CORRECTION FOR DIAGNOSTIC TROUBLE CODE LIST:

	DTC	DESCRIPTION & TROUBLE PART	CONTENT
DELETE	B2D02	SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (POWER)	-
DELETE	B2D05	SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (IMAGE)	-
ADD	B2D0A	LEFT SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (POWER)	Same as B2D02
ADD	B2D0B	RIGHT SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (POWER)	Same as B2D02
ADD	B2D0C	LEFT SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (IMAGE)	Same as B2D05
ADD	B2D0D	RIGHT SIDE CAMERA WIRING HARNESS OPEN CIRCUIT OR TROUBLE (IMAGE)	Same as B2D05
ADD	B2D11	Uncalibrated Camera	The steps are shown below

CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

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ISO 14001 is the international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations.

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1 Perform Calibration	
Inspection	<p>1. Perform a simple calibration of the uncalibrated camera.</p> <p><u>Refer to Multi-View Monitor (Diagnostics) > Work Support</u></p> <p>Uncalibrated camera are indicated with “! “ is displayed on the view screen.</p> <p>Refer to MultiView Monitor (Diagnostics) > Overview > Reference</p> <p>2. Clear the memory of [Front & Side Camera/Multi View Monitor] using the SUBARU SELECT Monitor.</p> <p><u>Refer to Common (Diagnostics)>Memory Clear</u></p> <p>3. Using the SUBARU SELECT monitor, read the DTCs for [Front & Side Camera/Multiview Monitor].</p> <p><u>Refer to Multi View Monitor (Diagnostics) > Diag Code (DTC)</u></p>
Check	Is DTC B2D11 displayed? (Current malfunction)
Yes	Replace the camera CU. Entertainment & Monitoring>Control Unit
No	Calibration was not performed.

ADDITIONAL WORK PROCEDURES REQUIRED WHEN REPLACING THE MULTIVIEW CONTROL MODULE.

The following information is supplied in the Subaru Service Manual. The additional steps have been outlined below in **RED**. Refer to STIS: Body & Electrical/WIRING SYSTEM > ENTERTAINMENT & MONITORING > Control Unit > INSTALLATION

1. MULTIVIEW CONTROL MODULE

1. Install the Multiview Control Unit.
2. Install the center information display assembly. [Ref. to ENTERTAINMENT & MONITORING > Cockpit Display > INSTALLATION](#)
3. Install the center grille ventilation assembly center. [Ref. to AIR CONDITIONER > Air Vent Grille > INSTALLATION > CENTER GRILLE ASSEMBLY](#)
4. Connect the ground terminal to the battery sensor. [Ref. to REPAIR CONTENTS > NOTE > BATTERY](#)
5. When the multiview control unit has been replaced, perform the following procedures:
 - Models equipped **WITHOUT** the 4 cameras.
 1. **Switch the ignition switch from OFF to ON. Wait at least 2 seconds. Switch the ignition switch OFF. Switch the ignition switch ON.**
 2. Using the Subaru Select Monitor, read the “Front & Side Camera/Multi View Monitor” customizing information.

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- Models equipped the **WITH** the 4 cameras.
 - Switch the ignition switch from OFF to ON. Wait at least 2 seconds. Switch the ignition switch OFF. Switch the ignition switch ON.
 - Using the Subaru Select Monitor, select “Carrying over Calibration data when replacing the Camera ECU” selection in the “Work Support” menu for the “Front & Side Camera/Multi View Monitor” and perform the operations displayed on the screen. [Ref. to 360-degree Surround View Monitor/Multi View Monitor \(DIAGNOSTICS\) > Work Support.](#)

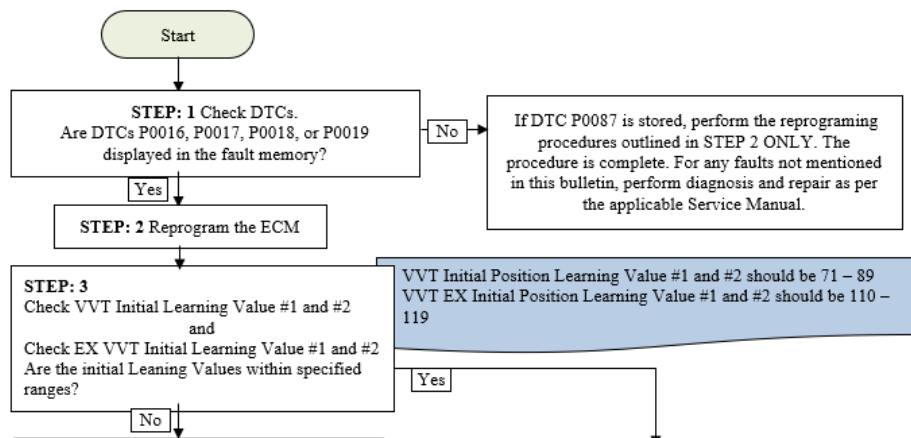
NOTE: Data transfer is a procedure to write the automatically backed-up calibration data of each camera in a new Multiview control assembly.

- Read the “Front & Side Camera/Multi View Monitor” customizing information. [Ref. to 360-degree Surround View Monitor/Multi View Monitor \(DIAGNOSTICS\) > Customize](#)

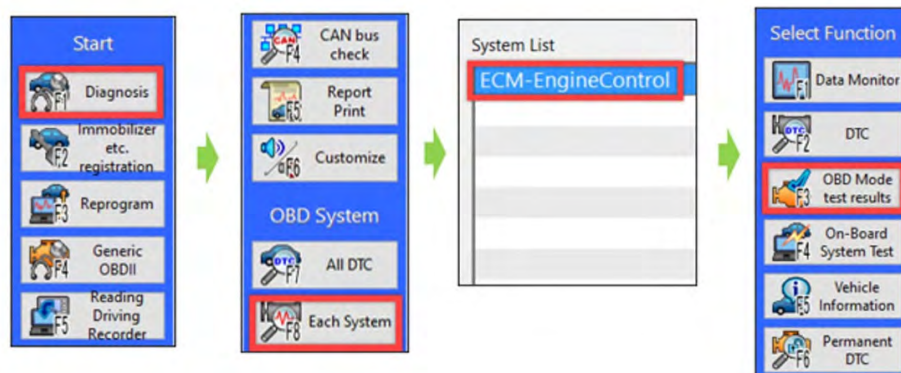
CORRECTION AND ADDITION FOR REFERENCE IMAGES IN THE EVENT OF MULTIVIEW MONITOR SYSTEM MALFUNCTION:

Refer to STIS: DIAGNOSTICS > Multi View Monitor > General Description > NOTE

- Corrected icon position when the control unit malfunctions.



- Corrected icon position when CAN message error occurs.



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3. Additional icon indicates calibration completion.

MID	TID	Scaling ID	Value	Unit	Minimum	Maximum	Result
\$31	\$BE	\$17	0.05	psi	0.00	5.56	OK
\$31	\$BF	\$17	0.14	psi	0.00	3.65	OK
\$35	\$8B	\$9D	308.0	°	0.0	4000.0	OK
\$35	\$8C	\$9D	-291.5	°	-4000.5	0.0	OK
\$35	\$8D	\$9D	228.0	°	0.0	4500.0	OK
\$35	\$8E	\$9D	-284.5	°	-4500.0	0.0	OK
\$35	\$D3	\$9D	1.0	°	-10.5	10.0	OK
\$35	\$D5	\$9D	-1.0	°	-10.5	10.0	OK
\$35	\$D6	\$9D	-0.5	°	-10.5	10.0	OK
\$36	\$8B	\$9D	327.5	°	0.0	4000.0	OK
\$36	\$8C	\$9D	-285.0	°	-4000.5	0.0	OK
\$36	\$8D	\$9D	324.0	°	0.0	4500.0	OK
\$36	\$8E	\$9D	-132.0	°	-4500.0	0.0	OK
\$36	\$D3	\$9D	1.0	°	-10.5	10.0	OK

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.