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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SUBARU

QUALITY DRIVEN® SERVICE

SERVICE BULLETIN

APPLICABILITY: 2020-25MY Legacy & Outback
2019-25MY Forester
2017-25MY Impreza
2018-25MY Crosstrek
2019-25MY Ascent
2022-25MY WRX
2022-25MY BRZ

NUMBER: 09-142-26

DATE: 10/30/26

SUBJECT: P2404 Evap System Leak Detection Pump Sense Circuit Range/Performance / Diagnostic Procedure

INTRODUCTION:

This service bulletin announces a change to the troubleshooting tree when diagnosing DTC P2404 EVAP SYSTEM LEAK DETECTION PUMP SENSE CIRCUIT RANGE/PERFORMANCE. If you find this DTC, follow the procedure outlined in this bulletin.

SERVICE PROCEDURE / INFORMATION:

REMINDER: Customer satisfaction and retention start with performing quality repairs.

Step 1: Check DTCs

Are there any other DTCs found?

Yes: Go to Step 2.

No: Go to Step 3.

Step 2: Are any of the DTCs present in the list below:

P2419
P2420
P2401
P2402
P24BA
P24BB
P24B9

Yes: Follow troubleshooting that DTC as per the applicable Service Manual.

No: Go to Step 3.

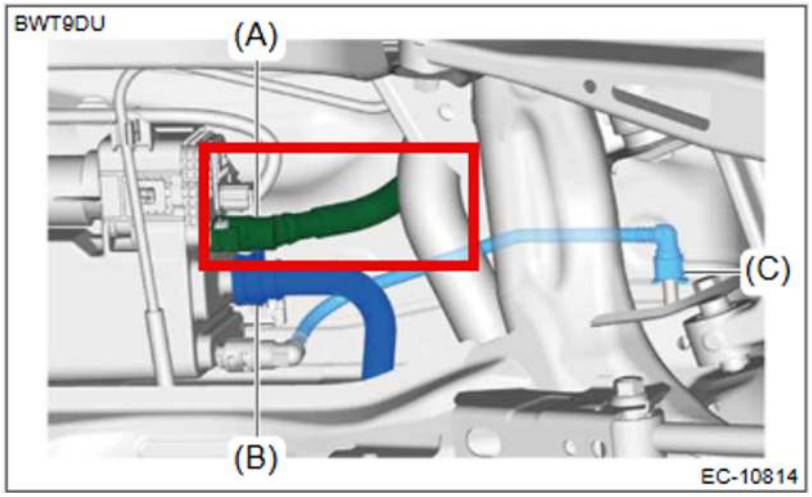
CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide 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.

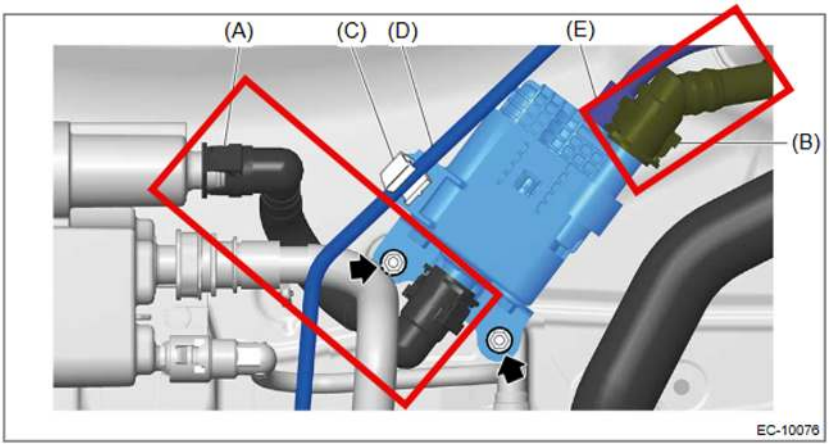
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Step 3: Disconnect the ELCM drain tube and clean out any oil and/or water proceed to **Step 4**.

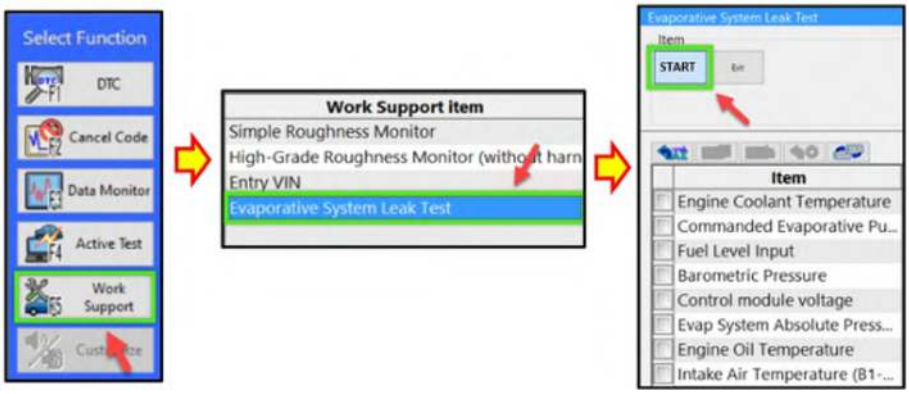
For vehicles with the ELCM integrated into the canister, inspect the drain tube highlighted by the red rectangle.



For vehicles with a separate ELCM and canister, inspect the drain tubes outlined by the red rectangle.



Step 4: Perform an EVAP force test. Connect the vehicle to a recommended power supply. See **APPENDIX A** for additional information regarding power supply. Using SSM, perform the Evaporative System Leak Test. Collect and save all data.



After the evaporative system leak test, check the DTCs and review the vacuum results. Record the value shown in the row labeled MID: $3C, TID: $C4, and Scaling ID: $FE. Is this value lower than

Continued...

-0.55 PSI?

MID	TID	Scaling ID	Value	Unit	Minimum	Maximum	Result
$3C	$C1	$FE	0.00	psi	0.00	0.00	OK
$3C	$C2	$FE	0.00	psi	0.00	0.00	OK
$3C	$C3	$FE	0.00	psi	0.00	0.00	OK
$3C	$C4	$FE	0.00	psi	0.00	0.00	OK
$3C	$C5	$FE	0.00	psi	0.00	0.00	OK
$3C	$C6	$35			0.00	0.00	OK
$3C	$C7	$FE			0.00	0.00	OK
$3C	$C8	$FE			0.00	0.00	OK
$3C	$C9	$FE	0.00	psi	0.00	0.00	OK
$3C	$CA	$FE	0.00	psi	0.00	0.00	OK

Value Must Be Lower Than -0.55 PSI

Yes: Replace the ELCM.

No: Go to Step 5

NOTE: Always save SSM data and record the results of the following tests.

Step 5: Does the vehicle match the applicable chart below?

Applicable Vehicle	MY	TSB
Legacy & Outback	20-23	09-122-24
Forester	19-23	
Impreza	17-23	
Crosstrek	18-23	
Impreza/Crosstrek	24	09-118-24
Ascent	19-23	09-107-23
WRX	22	09-102-23
Brz	22-24	09-128-24

Yes: Perform procedure outlined in the applicable TSB found in chart above.

No: Perform the diagnosis as per the applicable Service Manual.

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WARRANTY / CLAIM INFORMATION:

- Applicable Warranty Coverages:
- Basic New Car Warranty
- Federal Emissions Defect Warranty
- California Emissions Extended Defect Warranty coverage applies to vehicles registered in SULEV states
- SAS GOLD

Warranty coverage depends on the customer concern matching the condition described in the service bulletin; P2404 DTC is the primary DTC.

CLAIM REQUIREMENTS INCLUDE

- SSM PROJECT FILE ATTACHED

Warranty Type	Labor Description	Labor Operation#	Labor Time; WRX	Labor Time; Forester	Labor Time; Ascent	Fail Code	Skill Level
WC / SAS	DRAIN TUBE CLEAN / EVAP TESTING	A458086	1.0H	1.0H	1.0H	HDX22	SG8 / SL3
	OR						
	DRAIN TUBE CLEAN & LEAK CHECK MODULE R&R	A458286	2.3H	2.6H	2.7H		

Warranty Type	Labor Description	Labor Operation#	Labor Time; Legacy& Outback	Labor Time; Impreza& Crosstrek	Labor Time; BRZ	Fail Code	Skill Level
WC / SAS	DRAIN TUBE CLEAN / EVAP TESTING	A458086	1.0H	1.0H	1.0H	HDX22	SG8 / SL3
	OR						
	DRAIN TUBE CLEAN & LEAK CHECK MODULE R&R	A458286	2.9H	3.4H	5.2H		

The Skill Group and Skill Level listed in this bulletin define the qualifications recommended for this work. Repairs should be dispatched to a technician who is trained at the specified level. For more information on Labor Operation Skill Group/Level assignments, click here to access the Gear Reduction. To request a Skill Group/Skill Level change, fill out this form.

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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

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APPENDIX A

Subaru of America, Inc. (SOA) highly recommends connecting either the Subaru Midtronics DCA8000 Dynamic Diagnostic Charging System or the Subaru Midtronics GR8-1100 Diagnostic Battery Charger to the vehicle in the Power Supply Mode feature anytime a vehicle control module is being reprogrammed. Once the Midtronics charger is connected to the vehicle, if the battery is fully charged, it will take less than three (3) minutes to boot up the charger, select Power Supply Mode, and stabilize the battery voltage for reprogramming.

NOTES:

- • For instructions on using the Power Supply Mode, reference the applicable User Manual for the Midtronics DCA-8000 Dynamic Diagnostic Charging System and the Midtronics GR8- 1100 Diagnostic Battery Charger on STIS.
- • Confirm all electrical loads such as lights, audio, HVAC, seat heaters, and rear defroster are all switched OFF before setting up the charger for Power Supply Mode. • Select the correct battery type (Enhanced Flooded, Flooded, Gel, AGM, or AGM Spiral).
- • Input the CCA that matches the vehicle's battery. NOTE: OE and replacement batteries have different CCA ratings. Always confirm the battery's CCA rating before proceeding.
- • If using a DCA-8000 Dynamic Diagnostic Charging System, set the power supply voltage to 13.5 Volts. • DO NOT connect the DST-i or DST-010 until the Power Supply mode function has completed its battery test mode and the Charging Voltage has dropped to and shows a steady 13.5 Volts on the display.
- • Once Power Supply Mode reaches a steady 13.5 Volts, connect the DST-i or DST-010 to the OBD connector and proceed with initiating the normal FlashWrite reprogramming process.
- • Amperage will fluctuate based upon the vehicle's demand for power. NOTE: If the voltage rises beyond 14 Volts while programming is in process, the procedure will abort. This may indicate the need to test or charge the vehicle battery before attempting to program again.
- • ALWAYS set the power supply voltage to 13.5 Volts when using Power Supply Mode. NEVER turn the ignition switch on when charging at voltages of 15 Volts or higher.

REMINDER: If the DCA-8000 or GR8-1100 indicates the vehicle's battery must be charged, charge the battery fully before proceeding to reprogram the vehicle while using the Power Supply Mode.

NOTE: Control module failures resulting from battery discharge during reprogramming are not a matter for warranty. If any DTCs reset after the reprogramming update, diagnose them per the procedure outlined in the applicable Service Manual.

VERY IMPORTANT: This information applies to the Subaru Midtronics DCA-8000 Dynamic Diagnostic Charging System and the Subaru Midtronics GR8-1100 Diagnostic Battery Charger ONLY. It does not apply to any other brand/type of "generic" battery charger whatsoever. SOA has tested and approved ONLY the DCA-8000 and the GR8-1100, and their Power Supply Mode feature.