ATTENTION:
GENERAL MANAGER ❑
PARTS MANAGER ❑
CLAIMS PERSONNEL ❑
SERVICE MANAGER ❑

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

SUBARU

QUALITY DRIVEN® SERVICE

SERVICE BULLETIN

APPLICABILITY: 2015-19MY Legacy & Outback 3.6L

NUMBER: 02-195-26

DATE: 06/01/26

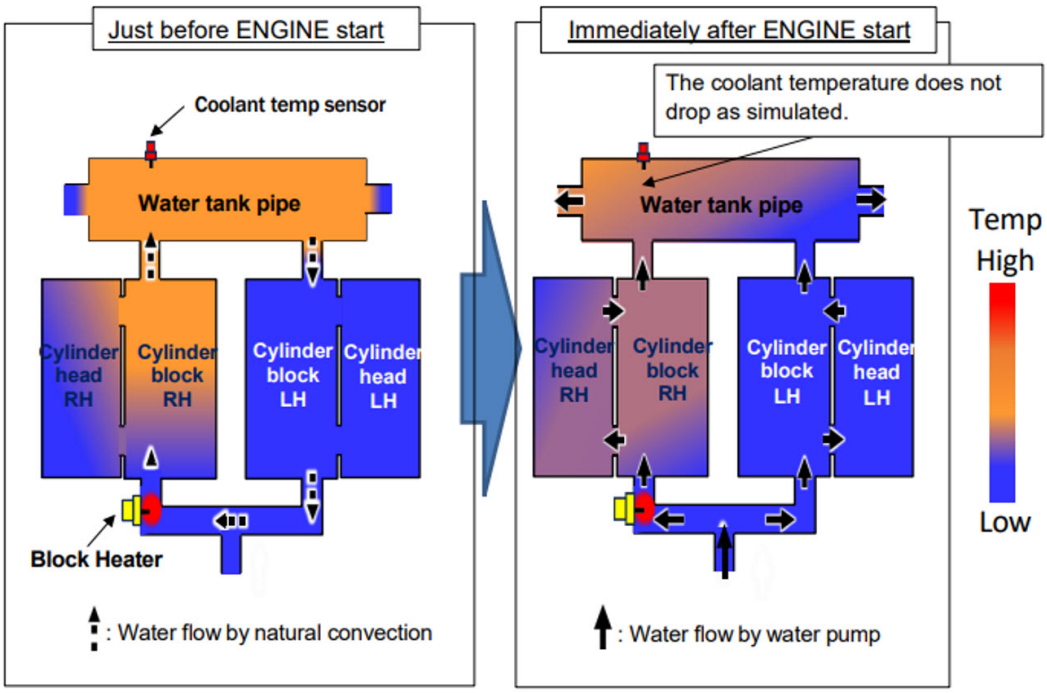
SUBJECT: Reprogramming Files for DTC P0116

INTRODUCTION:

This bulletin announces the availability of reprogramming files for the Engine Control Module (ECM) for certain vehicles equipped with 3.6L engines. The updated logic has been developed to address Diagnostic Trouble Code (DTC) P0116 – Engine Coolant Temperature Sensor 1 Circuit Range/Performance, which may be triggered when the vehicle is equipped with a block heater.

Under specific conditions, this DTC may set while the block heater is in use due to cool coolant circulating immediately after startup. This rapid change in coolant temperature can cause the sensor reading to drop quickly, resulting in the DTC being set.

If DTC P0116 is detected by the ECM, follow the reprogramming procedure outlined in this bulletin.



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.

Subaru of America, Inc. is ISO 14001 Compliant
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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PFC FILE INFROMATION:

MY	Model	File Description	Specification	Old Part #	Keyword	New CID #
15	Legacy & Outback	22765AF45J.pak	3.6 NA CVT	22765AF45A 22765AF45B 22765AF45C 22765AF45D 22765AF45E 22765AF45F 22765AF45G 22765AF45H	21BFA104	DB4GJ00D
16		22765AJ17G.pak		22765AJ17A 22765AJ17B 22765AJ17C 22765AJ17D 22765AJ17E 22765AJ17F	223275B8	DB4IA00D
17		22765AK31H.pak		22765AK31A 22765AK31B 22765AK31C 22765AK31D 22765AK31E 22765AK31F 22765AK31G	593D00EB	DB4IB00D
18		22765AK89F.pak		22765AK89A 22765AK89B 22765AK89C 22765AK89D 22765AK89E	4E02AC6C	DB4T900D
19		22765AN11F.pak		22765AN11A 22765AN11B 22765AN11C 22765AN11D 22765AN11E	05A54019	DB4VB00D

SERVICE PROCEDURE / INFORMATION:

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

Reprogram the ECM following the normal FlashWrite procedure.

Subaru of America, Inc. (SOA) highly recommends utilizing either the Subaru Midtronics DCA-8000 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 the Power Supply Mode, and have the battery voltage stabilized and ready 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.

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- Select the correct battery type (Enhanced Flooded, Flooded, Gel, AGM or AGM Spiral).
- Input the CCA which 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 can indicate a need to test or charge the vehicle battery before any further attempt at programming is made.
- 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 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. Should any DTCs reset after the reprogramming update is performed, diagnose per the procedure outlined in the applicable Service Manual.

VERY IMPORTANT:

This information is applicable 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. **ONLY** the DCA-8000 and the GR8-1100 and their Power Supply Mode feature have been tested and approved by SOA.

WARRANTY / CLAIM INFORMATION:

For vehicles within the Federal Emissions Extended Defect Warranty, For vehicles registered in SULEV states, California Emissions Extended Defect Warranty coverage applies, or covered by an active Subaru Added Security Classic or Gold plan, this repair may be submitted using the following claim information:

Claim Type	Labor Description	Labor Operation #	Labor Time	Fail Code	Dispatch Assignment
WC	ECM Reprogramming	A455286	0.4h	UPG48	SG 08 / SL 02

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: Always note the original Calibration Identification number (CID) / ROMID the vehicle came in with on the repair order before reprogramming and, make sure to list the NEW CID / ROMID for any newly installed programming (as confirmed from the actual control module AFTER installation). The NEW CID / ROMID MUST also be noted on the repair order as this information is required for entry in the Miscellaneous Detail field during claim submission. These numbers can be read using SSM4-R

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.