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 BULLETIN

APPLICABILITY: 2015-2017MY Legacy and Outback 2015-2017MY WRX 2017MY Forester	**NUMBER:** 11-174-17R **DATE:** 06/15/17 **REVISED:** 06/23/17

SUBJECT: Reprogramming File Availability for:
DTC P05A0- Battery Discharge after Repeated
Short-Trip Driving High Engine Idle RPM After
Depressing Clutch Pedal

INTRODUCTION:

This bulletin announces the availability of reprogramming files to optimize the ECM and address the following customer concerns:

- Check Engine light coming on (with DTC P05A0 stored in memory).
- Potential battery discharge (dead battery) after repeated periods of short-trip driving.
- A high (or "hanging") engine RPM after depressing the clutch pedal (Forester only).

PRODUCTION CHANGE INFORMATION:

The new ECM logic was incorporated into production starting with the following VINs:

Vehicle / Model	Starting VIN
2017MY Legacy 2.5L CAL Spec.	H*066602
2017MY Legacy 2.5L FED Spec.	TBD
2017MY Outback 2.5L CAL Spec.	H*410208
2017MY Outback 2.5L FED Spec.	TBD
2017MY Legacy 3.6L	H*066607
2017MY Outback 3.6L	H*410212
2017MY Forester	TBD

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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.

PACK FILE APPLICABILITY:

The table below identifies what conditions are addressed with these reprogramming files according to the model year / vehicle:

Model Year / Vehicle	These Files Reprogram the ECM for:
2015 -2016 MY Legacy & Outback	P05A0
2017MY Legacy & Outback 2.5L	P05A0 & New Charging Logic
2017MY Legacy & Outback 3.6L	New Charging Logic
2015-2017MY WRX 2.0 DIT	New Charging Logic
2017MY Forester 2.5L 6MT	New Charging Logic & Hanging Engine RPM

Model	PAK File Name	New ECM Part Number	Old ECM Part Numbers	Decryption Keyword	New CID Number
2015MY Legacy & Outback 2.5 CAL	22765AF36E.pak	22765AF36E	22765AF36A, B, C & D	30ACEF9E	EB4GA01C
	22765AK16C.pak	22765AK16C	22765AK16A & B	BE3E931F	EB4GA01c
2015MY Legacy & Outback 2.5 FED	22765AF35E.pak	22765AF35E	22765AF35A, B, C & D	802DAFB1	EB4GA01B
2016MY Legacy & Outback 2.5 CAL	22765AJ14B.pak	22765AJ14B	22765AJ14A	CD2A15F8	EB4I311C
2016MY Legacy & Outback 2.5 FED	22765AJ15B.pak	22765AJ15B	22765AJ15A	7C5E47CA	EB4I311B
2017MY Legacy & Outback 2.5 CAL	22765AK48D.pak	22765AK48D	22765AK48A, B & C	5128F599	EB4I503C
2017MY Legacy & Outback 2.5 FED	22765AK50D.pak	22765AK50D	22765AK50A, B & C	DC04AF72	EB4I504B
2017MY Legacy & Outback 3.6 FED	22765AK31C.pak	22765AK31C	22765AK31A & B	8B2BA880	DB4I502D
2015MY WRX 2.0 DIT 6MT FED	22765AG238.pak	22765AG238	22765AG230, 1, 2, 3, 4, 5, 6 & 7	3D970152	LF75402S
2015MY WRX 2.0 DIT CVT FED	22765AG248.pak	22765AG248	22765AG240, 1, 2, 3, 4, 5, 6 & 7	4A63E929	LF75402T
2016MY WRX 2.0 DIT 6MT FED	22765AH613.pak	22765AH613	22765AH610, 611 & 612	09FC6D63	LF75402H
2016MY WRX 2.0 DIT CVT FED	22765AH623.pak	22765AH623	22765AH620, 621 & 622	AD45B5E1	LF75402G
2017MY WRX 2.0 DIT 6MT FED	22765AK382.pak	22765AK382	22765AK380 & 381	E0946E06	LF79101P
2017MY WRX 2.0 DIT CVT FED	22765AK392.pak	22765AK392	22765AK390 & 391	FD25ED3F	LF79101N
2017MY Forester 2.5 6MT	22765AH852.pak	22765AH852	22765AH850 & 851	AEF0D961	EB4L012W

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SERVICE PROCEDURE:

- Reprogram the ECM following the normal FlashWrite procedure.

Subaru of America, Inc. (SOA) highly recommends connecting the Subaru Midtronics GR8 Diagnostic Battery Charger to the vehicle and utilizing the Power Supply Mode feature anytime a vehicle control module is being reprogrammed. Follow the procedure as outlined in document GR8-1100 on STIS for use of the GR8's Power Supply Mode:

- Confirm all electrical loads such as lights, audio, HVAC, seat heaters, and rear defroster are all switched **OFF** before setting up for Power Supply Mode.
- Select the correct battery type (Flooded, AGM or AGM Spiral).
- Select the CCA which matches the vehicle's battery (**NOTE:** OE and replacement batteries have different CCA ratings. Always confirm the battery rating before proceeding.)
- If the "Charge Battery" **WARNING** appears, the battery **MUST** be charged before attempting reprogramming.
- **DO NOT** connect the DSTi or SDI until the GR8 Power Supply mode has completed its battery test mode and the Charging Voltage has dropped to a steady 13.5 Volts on the display.
- If the GR8 "beeps" or the Status Light flashes, a diagnostic charge should be performed on the battery before proceeding further.
- Once Power Supply Mode reaches a steady 13.5 volts, connect the DSTi or SDI to the OBD connector and initiate the reprogramming process.
- Amperage will fluctuate based upon the vehicle's demand for power. **NOTE:** If the voltage rises beyond 14V 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.

IMPORTANT:
This information is applicable to the Midtronics GR8 Diagnostic Battery Charger **ONLY**. It does not apply to any other brand / type of "generic" battery charger whatsoever. **ONLY** the GR8 and its Power Supply Mode feature has been tested and approved by SOA.

Once the GR8 is connected to the vehicle, **as long as the battery is fully charged**, it takes less than 3 minutes to boot-up the charger, select Power Supply Mode, and have the battery voltage stabilized and ready for reprogramming.

REMINDER: If the GR8 indicates the vehicle's battery must be charged, charge the battery using the GR8 before proceeding to reprogram the vehicle.

NOTE: Control module failures as a result of 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.

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WARRANTY / CLAIM INFORMATION:

For vehicles within the Basic New Car Limited, an applicable Emission Warranty period or covered by an active Subaru Added Security Classic or Gold plan, this repair may be submitted using the following claim information:

Labor Description	Labor Operation #	Fail Code	Labor Time
MFI OBDII ECM Reprogramming	A455-288	UPG-48	0.4

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

NOTE: The pack file listings provided in this bulletin are the latest available at the time of publishing. Updates are often released thereafter without revision to the original bulletin. For this reason, it is critical to always have the latest version of Select Monitor software installed on your system. You can confirm if a later version is available by entering the CID listed in this bulletin into FlashWrite. If a newer CID is shown as available in FlashWrite, reprogram using that file.

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.