

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 PROGRAM BULLETIN

APPLICABILITY: 2015 MY WRX 2.0L DIT Models
 2014-2015 MY Forester 2.0L DIT Models
SUBJECT: Engine Control Module (ECM)
 Reprogramming

NUMBER: WQW-58R
DATE: February 10, 2016
REVISED: April 15, 2016

INTRODUCTION

Subaru of America, Inc. has determined that vehicles affected by this Service Program require ECM reprogramming.

This bulletin includes the service procedure for diagnosis and repair of customer concerns involving engine idle roughness or, in some cases, engine noise and/or damage resulting from spark knock (pre-ignition). The Engine Control Module logic has also been optimized requiring the ECM reprogramming.

The new logic optimizes the ECM for control of the following parameters:

- Change to Fuel Cut control when fuel level is extremely low / near empty
- Change to improve idle smoothness / quality
- Change to boost pressure control under wide-open throttle (WOT) conditions.

Under certain high engine load driving conditions, spark knock can occur which results in elevated cylinder temperatures and pressures. Over time, excessive erosion of the spark plugs and possible damage to the pistons can be consequences of continued operation with these conditions present.

AFFECTED VEHICLES

- Certain 2015 model year WRX 2.0L DIT (Direct Injection Turbo) vehicles
- Certain 2014-2015 model year Forester 2.0L DIT vehicles

Not all vehicles listed below are covered by this service program. Coverage for all affected vehicles must be confirmed by using the Vehicle Coverage Inquiry function on subarunet.com. This data is scheduled to be available in the system when owner notification begins.

MODEL YEAR	MODEL	STARTING PRODUCTION DATE	ENDING PRODUCTION DATE
2015	WRX 2.0L DIT	January 17, 2014	September 26, 2014
2014 & 2015	Forester 2.0L DIT	January 15, 2013	November 4, 2014

OWNER NOTIFICATION

Notification letters will be sent by First Class mail to owners of all potentially affected vehicles in early February, 2016. A copy of the letter is included at the end of this bulletin.

Continued...

RETAILER AFFECTED VIN LISTS

Each Subaru retailer will receive an affected VIN list from their Zone Office when owner notification begins. Vehicles will be assigned to retailers in the affected VIN list as follows:

- Original vehicle owners are assigned to the original selling retailer when their current address is within a 100 mile radius of that retailer.
- If the original selling retailer is inactive, the VIN has been assigned to the nearest active retailer.
- For any new owners or when original owners live more than 100 miles from the original selling retailer, the VIN has been assigned to the nearest active retailer.

IMPORTANT: Retailer affected VIN lists include owner name and address information for vehicles affected by this service program. This information will enable retailers to follow-up with owners of potentially affected vehicles. The lists contain owners' names and addresses obtained from State Motor Vehicle Registration Records. The use of such motor vehicle registration data for any other purpose is unlawful. Accordingly, retailers are required to limit the use of these lists for the purpose of completion of this Service Program.

SUBARU RETAILER PROGRAM RESPONSIBILITY

Retailers are to promptly perform the applicable service procedures to correct all affected vehicles in their inventory. Additionally, whenever a vehicle subject to this service program is taken into inventory or in for service, necessary steps should be taken to ensure the Service Program has been performed before selling or releasing the vehicle.

Any vehicles listed in a Service Program that are in the retailer's stock must be:

- Immediately identified
- Tagged or otherwise marked to prevent their delivery or use prior to inspection and/or repair
- Repaired in accordance with the repair procedures outlined in this Service Program bulletin.

PACK FILE APPLICABILITY:

MODEL / MODEL YEAR		TRANSMISSION	PAK FILE NAME	NEW ECM PART NUMBER	OLD ECM PART NUMBERS	NEW CID NUMBER
2015MY WRX 2.0L		MT	22765AG235.pak	22765AG235	22765AG230, 31, 32, 33 & 34	LF75300S
		CVT	22765AG245.pak	22765AG245	22765AG240, 41, 42, 43 & 44	LF75300T
Forester Turbo	2014	CVT	22611AW068.pak	22611AW068	22611AW060, 61, 62, 63, 64, 65, 66 & 67	AF56D00B
	2015		22765AG974.pak	22765AG974	22765AG970, 71, 72 & 73	LF61700B**

*** When searching Flashwrite for a 2015 Forester Turbo by Vehicle spec, the New CID will display incorrectly although the correct (new) update will be applied (LF61700B) as long as the January, 2016 SSM4 software release is being used. This will be corrected in a future SSM4 release.*

Continued...

MODIFIED VEHICLES

Aftermarket Engine Control Module (ECM) software changes may adversely affect the proper operation of some vehicles and prevent Subaru retailers from performing the ECM software logic update described in the WQW-58 customer letter. If unable to perform this update as a result of non-authorized modifications made to the vehicle's ECM, the vehicle must be returned to its original factory condition at the Owner's expense. In this case, the Owner must be informed of their options to return the ECM to original condition by one of the following methods:

- Owner removes non-authorized ECM modifications returning ECM to original condition
- Owner installs the original ECM
- Owner requests retailer install the original ECM (at vehicle Owner's expense)
- Owner installs a new factory ECM
- Owner requests retailer install a new factory ECM (at vehicle Owner's expense).

If aftermarket engine modifications are preventing completion of the engine inspection or repair procedures outlined in this service campaign, the customer must be informed of their options to:

- Owner removes the aftermarket engine modifications
- Owner requests the retailer remove the aftermarket modifications (at vehicle owner expense).

If any of the following conditions exist, the retailer must complete the Vehicle Modification and Accident Damage Form as found on Subarunet under Service/Forms.

- Owner declines to return the ECM to original factory condition, ECM modifications are preventing installation of required software update.
- Owner declines to remove the aftermarket engine modifications, Engine modifications are preventing completion of the engine testing or repair.
- Retailer determines the procedure cannot be performed with existing modifications. Engine or ECM modifications are preventing the retailer from completing some portion of the campaign procedures.

All completed Vehicle Modification and Accident Damage Forms must be forwarded to **Claimsteam@subaru.com**. A list of modifications and photos must be included. These forms will be used to document the condition(s) preventing the completion of this campaign and will be noted on the Coverage Inquiry Report located on subarunet.com/Service-Claims Entry/Info/Vehicle Inquiry (combined).

In addition, the following language must be noted on the Repair Order:

"Aftermarket Engine Control Module (ECM) software changes and/or aftermarket engine modifications are preventing completion of the service campaign described in the WQW-58 customer notification letter. Your Subaru retailer is unable to perform this update as a result of non-authorized modifications made to your vehicle's ECM or engine. Subaru will not be able to assist you until your vehicle is returned to its original factory condition. If this software update is not performed or if the installed aftermarket modifications cause similar engine damage as addressed in this Service Program, Subaru may not assist with any resulting repairs to the vehicle."

Continued...

SERVICE PROCEDURE FLOW CHART

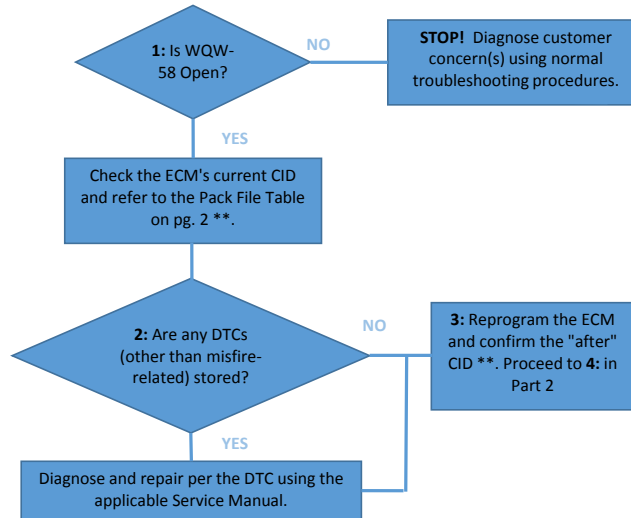
IMPORTANT: PARTS 1 & 2 OF THIS CHART MUST BE COMPLETED.

PART 3 ONLY APPLIES IF DIAGNOSIS INDICATES ENGINE ASSEMBLY REPAIRS ARE REQUIRED.

PART 1:

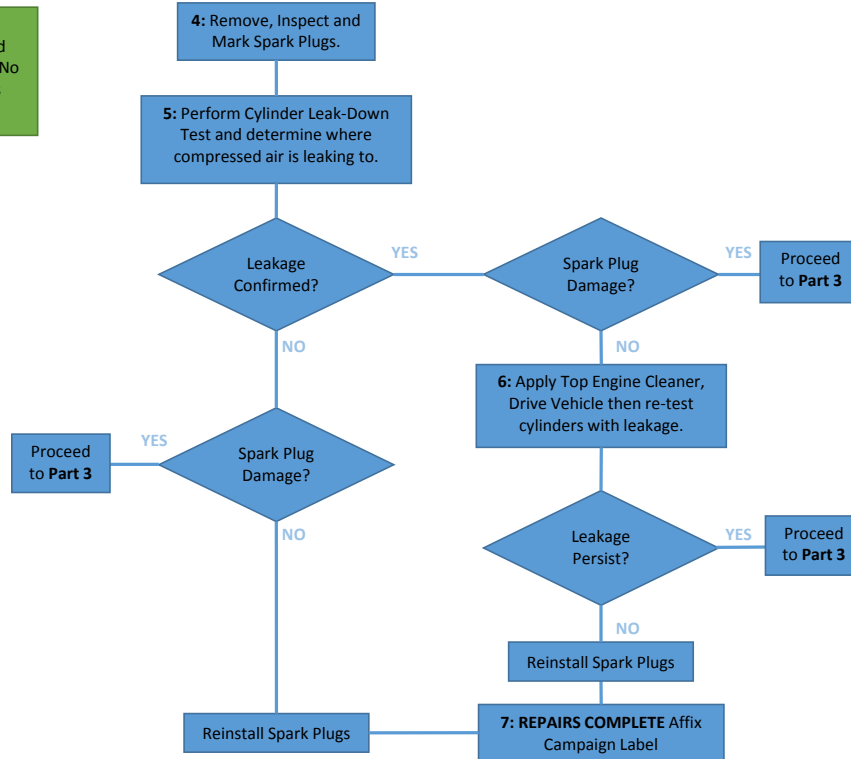
APPLICABILITY and
REPROGRAMMING

****IMPORTANT:** If ECM
or engine is modified,
refer to Modified
Vehicles section of this
bulletin.



PART 2:

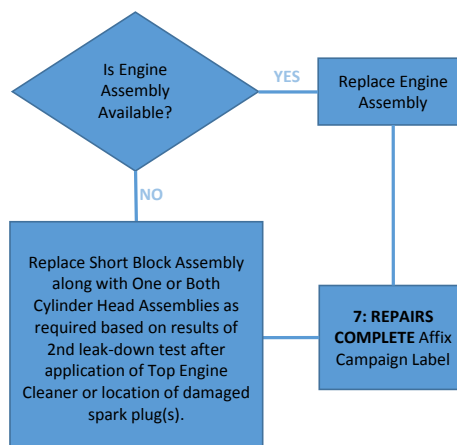
DIAGNOSIS and
SIMPLE REPAIR (No
engine repairs
required).



PART 3:

ADDITIONAL
DIAGNOSIS AND
ENGINE REPAIR
PROCEDURE

IMPORTANT: All
conditions must be
confirmed per the
information supplied later
in this bulletin. Refer to
applicable bulletin section
for full details.
Inappropriately replaced
engine claims will be
debited. If unsure of your
findings, contact your FSE
or Techline to review.



Continued...

Follow the procedure steps below when a potentially affected vehicle presents for repair. Perform a Vehicle Inquiry before proceeding to **Step 1**.

Step 1: Is WQW-58 open?

YES: Check the current CID of the ECM using SSM4. Refer to the above Pack File Applicability table and proceed to **Step 2**.

VERY IMPORTANT: Regardless of whether the CID check shows the ECM is or is not suitable for reprogramming (latest version already installed), this ENTIRE Service Procedure MUST be performed on any vehicle subject to this Service Campaign. Record the **CURRENT** (if ECM already has the latest logic installed) or the **NEW** (after reprogramming) CID on the repair order hard copy as it is required for claim submission.

NOTE: If the ECM has been modified, refer to the Modified Vehicles section of this bulletin before proceeding further.

NO: STOP. Do not proceed any further with this procedure. Diagnose any Customer concerns following normal troubleshooting procedures using the applicable Service Manual.

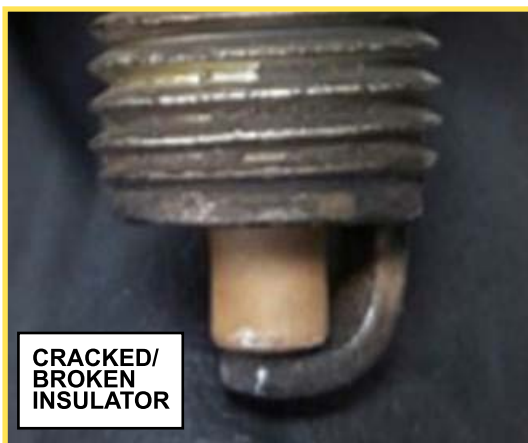
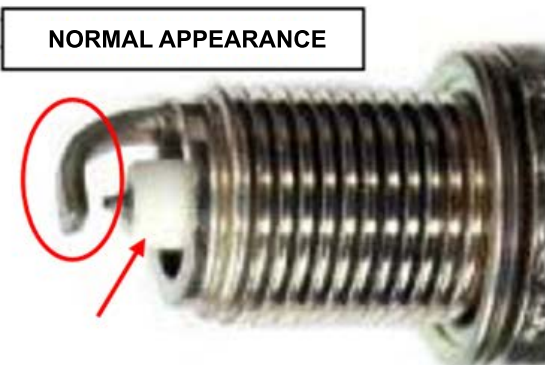
Step 2: Are there any DTCs (other than misfire related DTCs) stored in memory?

YES: Diagnose and repair as per the stored DTC(s) using the applicable Service Manual. **When completed, proceed to Step 3.**

NO: Proceed to **Step 3**.

Step 3: Reprogram the ECM following the currently established normal procedure. When complete, verify the “after” CID to confirm successful reprogramming and **record it on the repair order hard copy.**

Step 4: Remove and inspect the spark plugs closely for any damage, erosion or melting. Inspect, rotate, turn upside-down and shake each spark plug to check for a cracked or loose porcelain insulator around the center electrode. Take note which cylinder(s) have spark plugs with verified damage and mark each plug, damaged or not, with the corresponding cylinder number.



Continued...

NOTE: Any damage to the spark plug porcelain outside of the cylinder head is not a result of this condition.

Step 5: Perform a cylinder leak-down test on **ALL 4** cylinders following the procedures supplied with the testing equipment being used. Record test results on the Repair Order hard copy. Due to differences in leak-down test equipment, an actual cylinder leakage specification cannot be provided. However, your results should be consistent from cylinder to cylinder. Large variations in cylinder leakage readings will direct you toward a problem cylinder. Experience with the test equipment being used and past engine failure diagnosis should be your guides for how much variation between cylinders is acceptable when damage has occurred to one or more cylinders. Contact your FSE or Techline to review if you are uncertain about your test results.

NOTE: More information regarding cylinder leak-down testing can be found on STIS in Technician's Reference Booklet: Engine Theory and Diagnosis (MSA5P2106C).

Evaluation of Test Results

- If the inspections performed in **Step 4** above revealed spark plug damage, the engine assembly must be replaced (refer to Part 3 of Flow Chart) following the procedure in the applicable Service Manual.
- If no spark plug damage is found but high or inconsistent leak-down results are determined, reinstall the plugs and proceed to **Step 6**.
- If the testing performed in **Step 5** above revealed high cylinder leak down percentages as described in the test equipment instructions or inconsistencies between cylinders, use the table below as a guide to help determine where the compressed air is being lost. If it is determined the compressed air is leaking into the exhaust, or intake (heard escaping from the tail pipe or, throttle body), this would likely indicate a valve sealing concern. Proceed to **Step 6**. If it is determined the compressed air is leaking into the crankcase (heard escaping from the oil fill pipe and/or dipstick tube), proceed to **Step 6**.

Step 6: Perform a top engine clean using SOA868V9160 Top Engine Cleaner and companion tool #SOA868V9430. When completed, road test the vehicle then perform **Step 5** again and re-evaluate the results. If the results are now consistent between cylinders, the leakage was not a result of any mechanical concern. Reinstall the spark plugs to complete the procedure. If there is still significant or unusual leakage past the intake and/or exhaust valves, it is not related to this campaign. Diagnose and repair the engine following the procedures in the applicable Service Manual. If there is still significant or unusual leakage into the crankcase, proceed with replacing the engine assembly (refer to Part 3 of Flow Chart).

Source of Compressed Air Loss:	Probable Cause:
Throttle Body	Intake Valve(s) Sealing *
Exhaust (Tail Pipe)	Exhaust Valve(s) Sealing *
Crankcase (Oil Fill / Dipstick Tube)	Piston Ring Sealing / Possible Ring Land(s) Damage

**This finding is not related to the condition(s) addressed by this bulletin. Engine replacement is not required.*

When diagnosis and/or leak-down testing has confirmed either spark plug damage and/or cylinder leakage into the crankcase, install a complete engine assembly (if available) following the procedure in the applicable Service Manual (refer to Part 3 of the Flow Chart). If a complete engine assembly is not available (and will be on backorder for 7 days or more), a new short block assembly must be used for the repair along with replacing the affected cylinder head (or heads) as required and described below.

Continued...

Replacement Cylinder Heads

If diagnosis and/or leak-down testing has confirmed either spark plug damage and/or cylinder leakage into the crankcase, a complete “loaded” cylinder head assembly should be installed for the corresponding “side” of the engine identified as having damage along with the new short block assembly. **EXAMPLE:** If spark plug damage and/or leakage into the crankcase has identified an issue in cylinder #3, the 1-3 (right side) cylinder head must also be replaced along with the new short block assembly. Always review with your Parts Department and the applicable Service Manual to determine any other components which may be required.

If a complete “loaded” cylinder head assembly is not available, the replacement cylinder head must be “built” using a new “bare” head (bare heads include new valve guides) following the procedure in the applicable Service Manual. The valve train components are to be changed over from the original head assembly **EXCEPT for the intake and exhaust valves from any affected cylinder(s)** which must be replaced. The remaining valve train components (spring seats, valve springs, retainers and locks) along with the remaining miscellaneous components are all to be reused. A “bare” head will also require installation of new valve stem oil seals during reassembly. Always review with your Parts Department and the applicable Service Manual to determine any other components which may be required.

Because some engine assemblies are no longer in active production or available, the following substitutions must be used to complete those repairs if available.

REMINDER: Engine assembly replacement will only be required in a **very limited** number of cases.

- For 2014-15 Forester XT- order the 2016MY Forester XT Engine assembly p.n. 10100CB740 and replace the engine harness included on the 2016MY engine with a 2014/15MY engine harness, p.n. 24020AF363. If a new harness is unavailable, swap the original onto the new engine assembly to minimize downtime. **IMPORTANT:** Once the new harness is received, it **MUST** be installed ASAP.
- For 2015MY WRX, order the 2016MY WRX engine assembly as there is no difference between 2015-16MY engines. Order p.n. 10100CA550 for MT models and p.n. 10100CA560 for CVT models.

WQW-58R Parts List**	
2014-15 Forester XT	2015 WRX
Complete Engine Assembly	
10100CB740	10100CA560 For CVT or 10100CA550 For 6MT
NOTE: For 2014-15 Forester, replace the engine harness on 10100CB740 engine assy. or any Short Block with 2014-2015 engine harness 24020AF363.	NOTE: 2015-2016 WRX engine assemblies are the same part number. No harness change required.
Exhaust Gaskets	
14038AA040- Qty. 2 Up to May, 2015 or 14038AA050 - Qty. 2 May, 2015 and Forward	
If May, 2015 production date, decode by VIN	
OR, when Engine Assembly is not available:	
Short Block Assembly	Short Block Assembly
2014-2015 Forester - 10103AC310	2015 WRX CVT and 6MT - 10103AC480
Engine Gasket & Seal Kit	
All Models - 10105AB560	
“Loaded” Cylinder Head	
2014 Forester - 11018AA130 RH Side	2015 WRX CVT - 11018AA440 RH Side
2014 Forester - 11019AA110 LH Side	2015 WRX CVT - 11019AA440 LH Side
2015 Forester - 11018AA210 RH Side	2015 WRX 6MT - 11018AA430 RH Side
2015 Forester - 11019AA210 LH Side	2015 WRX 6MT - 11019AA430 LH Side
OR, when “Loaded” Cylinder Head(s) are not available:	
“Bare” Cylinder Head	
11039AC400 RH Side	
11063AB720 LH Side	

Continued...

PLUS (items not included in Engine Gasket & Seal Kit)	
Intake Gaskets	
14035AA630 - Qty. 4	
Exhaust Gaskets	
14038AA040- Qty. 2 Up to May, 2015 or 14038AA050 - Qty. 2 May, 2015 and Forward If May, 2015 production date, decode by VIN	
Liquid Gasket	
All Models- SOA5499100	
Miscellaneous Related Hard Parts When Replacing Short Block and Cylinder Head(s)	
17540AA370 Fuel Delivery Pipe Qty. 1	
17540AA380 Fuel Delivery Pipe Qty. 1	
16698AA110 O-Ring, Injector Qty. 4	16698AA160 O-Ring, Injector Qty. 4
16608AA070 Seal- Fuel Injector Qty. 8	
16677AA050 Ring- Back-Up Qty. 4	
16677AA060 Ring- Back-Up Qty. 4	
22401AA830 Spark Plug Qty. 4	

****NOTE:** Additional parts will be needed when performing these repairs. This list is provided as a reference only and not totally complete depending on the needs of your specific repair. It is important to anticipate these needs and have all the parts needed to perform the repair on hand to expedite the repair and minimize down-time.

Step 7: When the required repairs are complete, confirm the running condition of the engine. If the engine runs normally, no further action is required. Affix the campaign sticker to the radiator support and release the vehicle.

VERY IMPORTANT: If the engine continues to exhibit any idle roughness after completing the testing and this ECM reprogramming, confirm your work to ensure the ignition coils and spark plugs are correctly installed and undamaged. If any concerns are found, correct as needed then check the engine's running condition again. If any concerns persist, collect and save an SSM IV data file showing the condition. While recording, be sure to mark the data whenever any roughness occurs. Share the data file with the SOA Technical Helpline through the SDS notebook. Include any FFD should a DTC set during these checks. Follow up with the SOA Technical Helpline to review the saved data before proceeding further.

NOTES:

SOA now highly recommends connecting the Midtronics GR8 Diagnostic Battery Charger to the vehicle and utilizing the Power Supply Mode feature anytime a vehicle control module is being reprogrammed. 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 the Power Supply Mode, and have the battery voltage stabilized and ready for reprogramming. **VERY 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 Subaru of America, Inc. (SOA).

- If the GR8 indicates the vehicle's battery must be charged, charge the battery using the GR8 before proceeding to reprogram the vehicle while using the Power Supply Mode.
- 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.

Continued...

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 SSM4 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.

STATE EMISSION TESTING ADVISORY

After ECM reprogramming, the OBD system's readiness code monitors will reset to "incomplete". Normally, the vehicle needs to be driven under a variety of conditions before the readiness code monitors will indicate "complete". (See State I/M Program Advisory Bulletin number 11-120-12R, dated 2-02-2016 for details.)

SERVICE PROGRAM IDENTIFICATION LABEL

Type or print the necessary information on a Service Program identification label. The completed label should be attached to the vehicle's upper radiator support.

Additional labels are available through normal parts ordering channels. The part number is MSA6P1302. Ordering qty 1 = 1 sheet of 20 labels.

PART NUMBER	APPLICABILITY	DESCRIPTION	ORDER QUANTITY
MSA6P1302	All models	Campaign Completion Labels (contains one sheet of 20 labels)	1

SUBARU
Campaign Code
WQW-58
COMPLETED
DIST./DEALER NO.
SERIAL NO.
DO NOT REMOVE

CALIFORNIA "VEHICLE EMISSION RECALL - PROOF OF CORRECTION" CERTIFICATE

The California Air Resources Board and the Department of Motor Vehicles Registration/Recall Program requires that all emission related Recall/Campaign or Service Program repairs be completed before a vehicle registration is renewed. Please provide owners of vehicles registered in the state of California a completed "Vehicle Emission Recall - Proof of Correction" certificate. Vehicle owners should be advised to retain this certificate because the California Department of Motor Vehicles may require they provide proof this service program repair has been completed.

Additional certificates are available through normal parts ordering channels using part number MSA6P1301. Quantity 1 = 1 booklet of 50 certificates.

Continued...

Vehicle Emission Recall - Proof of Correction				
License Number	Make	Year Model	Body Type	Vehicle Identification Number
Manufacturer Subaru of America, Inc.			Recall Number	
The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws				
Dealer's Name		Address, City, State and Zip		
Date	Dealership's Authorized Signature			
Return this certificate to DMV only when required-otherwise retain for your records.				

CLAIM REIMBURSEMENT AND ENTRY PROCEDURES

Credit to perform this service program will be based on the submission of properly completed repair order information. Retailers may submit claims through Vehicle Claim Entry on subarunet.com. Enter the Recall Claim the same day as the recall is performed to update the recall status to "Completed".

VERY IMPORTANT: The coding provided below is to be used **ONLY** when the customer declines continuation of this campaign procedure after vehicle is found to have ECM and/or engine modifications which preclude completion of this campaign. **DETAILED** Technician's notes and a completed Vehicle Modification and Accident Damage form submission are required to document modifications found to be preventing completion of this campaign.

VEHICLES WITH MODIFICATIONS					
OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Campaign incomplete due to modifications	MODIFIED VEHICLE CID AND CVN CHECKS	B114-660	0.4	PA	BAX-58
	MODIFIED VEHICLE ENGINE CHECKS	C114-661	0.4		
ECM / Engine Inspection ONLY, NO Repairs Made.					
WQW-58 SERVICE PROGRAM WITH NO ENGINE OR PART REPLACEMENT					
OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Spark Plugs- OK Leak-Down Test- OK ECM is up-to-date*	INCLUDES: CID CHECK, SPARK PLUG REMOVAL FOR INSPECTION, MARKING, REINSTALLATION, CYLINDER LEAK-DOWN TEST, ECM CHECK FOR REPROGRAMMING	B114-550*	3.3	RC	WQW-58
Spark Plugs- OK Leak-Down Test- N/G ECM is up-to-date*	INCLUDES: CID CHECK, SPARK PLUG REMOVAL FOR INSPECTION, MARKING, REINSTALLATION, CYLINDER LEAK DOWN TEST, ECM CHECK FOR REPROGRAMMING	B114-666*	3.3		

**If ECM reprogramming is required, use in conjunction with C114-558*

Continued...

OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Top Engine Clean	HIGH FIRST LEAK-DOWN TEST RESULT, PERFORM TOP ENGINE CLEAN, ROAD TEST & PERFORM 2ND LEAK-DOWN TEST	C114-663	2.2	RC	WQW-58
If ECM is not up-to-date	ECM REPROGRAMMING	C114-558	0.3		
Top Engine Cleaner Corrected Cylinder Leakage Condition.					
*If ECM reprogramming is required, use in conjunction with C114-558					
COMPLETE ENGINE ASSEMBLY REPLACEMENT					
OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Spark Plugs- and/or Leak-Down Test- N/G ECM up-to-date*	INCLUDES: CID CHECK, SPARK PLUG REMOVAL FOR INSPECTION, MARKING, REINSTALLATION, LEAK-DOWN TEST, ENGINE REPLACEMENT AND ECM CHECK FOR REPROGRAMMING	B114-662*	7.6	RC	WQW-58
Top Engine Clean (if required)**	HIGH FIRST LEAK-DOWN TEST RESULT, PERFORM TOP ENGINE CLEAN, ROAD TEST & PERFORM 2ND LEAK-DOWN TEST	C114-663	2.2		
When Applicable	ENGINE HARNESS CHANGE-OVER TO REPLACEMENT ENGINE ASSEMBLY WHEN REQUIRED ON APPLICABLE FORESTER MODELS	C114-556	1.9		
If ECM is not up-to-date	ECM REPROGRAMMING	C114-558	0.3		
** NOTE: Top Engine Cleaning is Not Required if Spark Plug damage is confirmed.					
Failed Leak-Down Test, Top Engine Clean Did Not Correct Cylinder Leakage Condition.					
*If ECM reprogramming is required, use in conjunction with C114-558					
SHORT BLOCK REPLACEMENT FOR WHEN COMPLETE ENGINE ASSEMBLY IS NOT AVAILABLE					
OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Spark Plugs- and/or Leak-Down Test- N/G ECM up-to-date*	INCLUDES: CID CHECK, SPARK PLUG REMOVAL FOR INSPECTION, MARKING & REINSTALLATION, LEAK DOWN TEST AND ECM CHECK FOR REPROGRAMMING	B114-664*	3.3	RC	WQW-58
Top Engine Clean (if required)**	HIGH FIRST LEAK-DOWN TEST RESULT, PERFORM TOP ENGINE CLEAN, ROAD TEST & PERFORM 2ND LEAK-DOWN TEST	C114-663	2.2		
Spark Plugs- and/or Leak-Down Test- N/G Only one bank affected	SHORT BLOCK AND ONE COMPLETE CYLINDER HEAD ASSEMBLY REPLACED	C114-551	11.8		
Spark Plugs- and/or Leak-Down Test- N/G Both banks affected	SHORT BLOCK AND BOTH COMPLETE CYLINDER HEAD ASSEMBLIES REPLACED	C114-554	12.2		

****If ECM reprogramming is required, use in conjunction with C114-558***

Continued...

OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Includes time for changeover of all cylinder head components including valve replacement when required	SHORT BLOCK AND ONE BARE CYLINDER HEAD REPLACED	C114-571	13.4	RC	WQW-58
	SHORT BLOCK AND BOTH BARE CYLINDER HEADS REPLACED	C114-574	14.6		
If ECM is not up-to-date	ECM REPROGRAMMING	C114-558	0.3		
** NOTE: Top Engine Cleaning is Not Required if Spark Plug damage is confirmed.					
Failed Leak-Down Testing, Top Engine Cleaner Did Not Correct Cylinder Leakage Condition.					
* If ECM reprogramming is required, use in conjunction with C114-558					
POST-REPAIR CONCERN					
OUTCOME	LABOR DESCRIPTION	LABOR OPERATION #	LABOR TIME	CLAIM TYPE	CAMPAIGN CODE
Spark Plugs- OK Leak-Down Test- OK ECM Reprogramming BUT engine operation issue(s) persist	INCLUDES: CID CHECK, SPARK PLUG REMOVAL FOR INSPECTION, MARKING, REINSTALLATION, LEAK-DOWN TEST, ECM REPROGRAMMING AND DATA FILE COLLECTION FOR SUBMISSION TO TECHLINE	B114-553	3.9	RC	BAY-58
Condition Occurred After Engine Repairs/Replacement Completed. MUST Review With Techline And/Or FSE Before Proceeding!					

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.

**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"**

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.

Continued...

OWNER NOTIFICATION LETTER



Subaru of America, Inc

Subaru Plaza
PO Box 6000
Cherry Hill, NJ 08034-6000
800-782-2783
www.subaru.com

**Subaru Service Program WQW-58
February 2016**

Dear Subaru Owner:

We would like to thank you for your selection of a Subaru vehicle. We take pride in our products and are committed to your continued satisfaction.

Subaru has developed a modification to the Engine Control Module (ECM) software logic due to a possible pre-ignition issue on certain 2015 model year WRX vehicles and certain 2014 and 2015 model year 2.0XT Forester vehicles, equipped with a 2.0 liter turbocharged engine.

You received this notice because our records indicate that you currently own one of these vehicles.

DESCRIPTION

Under certain high engine load driving conditions, engine combustion may occur prior to spark ignition resulting in elevated cylinder temperatures and pressures. This could cause a rough idle and engine noise, and if left unaddressed it could lead to excessive erosion of the spark plugs and possible engine damage.

REPAIR

The repair will be performed at no cost to you. Subaru will inspect your vehicle and reprogram the ECM. If any related spark plug or engine damage is detected during the inspection, your vehicle will be repaired.

WHAT YOU SHOULD DO

You should immediately contact your Subaru retailer (dealer) for an appointment to have this repair performed.

HOW LONG WILL THE REPAIR TAKE?

The time to perform the inspection and reprogramming is approximately three hours. However, it may be necessary to leave your vehicle for a longer period of time on the day of your scheduled appointment to allow your Subaru retailer flexibility in scheduling, or for repair.

CALIFORNIA REGISTERED OWNERS

The California Air Resources Board requires that emission related campaigns be completed prior to California's vehicle registration renewal process; without this repair, you will not be able to register your vehicle during your next annual registration. Upon completion of this campaign, your California dealer will complete and provide you a "Proof of Correction Certificate." If required, present the certificate to the California Department of Motor Vehicles (the "DMV") when renewing your California registration as proof of campaign completion. If the DMV does not request the certificate, we recommend that you keep it for your records.

In addition, the State of California requires that every vehicle must pass an emission test (SMOG Check) every two years and before it is sold. Without the service we are providing at no charge, your vehicle may not pass this test.

Continued...

CHANGED YOUR ADDRESS OR SOLD YOUR SUBARU?

If you have moved or sold your vehicle, please complete the enclosed prepaid postcard and mail it to us. Or if you prefer to update this information online, please go to www.subaru.com, select 'Customer Support,' then select 'Address Update' or 'Ownership Update' from the drop down menu.

IF YOU NEED FURTHER ASSISTANCE:

To locate the nearest Subaru retailer you can access our website at www.subaru.com and select 'Find a Retailer.'

For additional information, please go to: <http://www.wqw58.service-campaign.com>.

If you need additional assistance, please contact us directly:

- By e-mail: Go to www.subaru.com, Customer Support and select "Contact Us"
- By telephone: 1-800-SUBARU3 (1-800-782-2783)
Monday through Thursday between 7:30 a.m. and 8:00 p.m. ET
Friday between 10:30 a.m. and 5:00 p.m. ET
Saturday between 9:00 a.m. and 3:30 p.m. ET
- By U.S. Postal mail: Write us at Subaru of America, Inc., Attn: Customer-Retailer Services Department, P.O. Box 6000, Cherry Hill, NJ 08034-6000

Please contact us immediately if the Subaru retailer fails or is unable to make the necessary repairs free of charge.

Your continued satisfaction with your Subaru is important to us. Please understand that we have taken this action in the interest of your vehicle's proper operation. We sincerely apologize for any inconvenience this matter may cause and urge you to schedule an appointment as soon as possible to have this repair performed.

Sincerely,
Subaru of America, Inc.

Notice to Lessors: Under Federal law the lessor of a vehicle who receives this letter must provide a copy of it to the vehicle lessee(s) within 10 business days from receipt. The lessor must also keep a record of the lessee(s) to whom this letter is sent, the date sent, and the applicable vehicle identification number (VIN). (For the purposes of this section, a lessor means a person or entity that in the last twelve months prior to the date of this notification has been the owner, as referenced on the vehicle's title, of any five or more leased vehicles. A leased vehicle is a vehicle leased to another person for a term of at least four months.)

A subsidiary of Fuji Heavy Industries Ltd.