

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

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




QUALITY DRIVEN® SERVICE

## REPAIR PROCEDURE

**APPLICABILITY:** 2015MY Legacy  
 2015MY Outback  
 2015MY Impreza  
 2015MY XV Crosstrek  
 2016MY WRX

**DATE:** June 5, 2015

**SUBJECT:** Repair Procedure for Subaru Recall Campaign Stop Sale WQS-54  
 Driver Assist System Delay in Warning Indicator

### INTRODUCTION

Subaru of America, Inc. (SOA) is recalling certain 2015 model year Subaru Legacy, Subaru Outback, Subaru Impreza (4Door and 5Door) and Subaru XV Crosstrek vehicles and certain 2016MY Subaru WRX vehicles equipped with a Driver Assist System.

The programming of the Driver Assist System will not detect a fault in one of the associated system components. In the event of Brake Lamp Switch (BLS) failure, the Vehicle Dynamic Control (VDC) correctly detects the BLS failure, but the Driver Assist System will be delayed in detecting the BLS failure. Therefore, it will take longer for the multi information display to inform the driver of a malfunction. In addition, VDC will not receive the brake request from the Driver Assist System, resulting in no automatic braking, including Adaptive Cruise Control and PreCollision Braking.

**Automatic braking will not occur under the following condition:**

If a BLS failure occurs, the VDC Warning Lamp will illuminate. If the driver of an affected vehicle approaches an obstacle, “Obstacle Detected” will be properly indicated on the multi information display. Upon noticing the “Obstacle Detected” warning, the driver can apply the brake pedal to safely stop the vehicle. If the driver ignores the “Obstacle Detected” warning and does not apply the brake pedal, the VDC pressure control system will not operate.

### DESCRIPTION OF THE SAFETY HAZARD

In the event of Brake Lamp Switch (BLS) failure, the Driver Assist System will be delayed in detecting the BLS failure, which may increase the risk of a crash.

### DESCRIPTION OF THE REMEDY

The Driver Assist System will be reprogrammed.

### AFFECTED VEHICLES

This condition may exist on certain vehicles listed below. **NOTE:** Not all vehicles within the range are affected. Coverage for all affected vehicles must be confirmed by using the Vehicle Coverage Inquiry function on Subarunet.com.

MODEL YEAR	MODEL	STARTING PRODUCTION DATE	ENDING PRODUCTION DATE
2015	Legacy	March 10, 2014	April 16, 2015
2015	Outback	February 24, 2014	April 16, 2015
2015	Impreza	September 9, 2014	April 14, 2015
2015	XV Crosstrek	October 16, 2014	April 15, 2015
2016	WRX	March 23, 2015	March 23, 2015

*Continued...*

## PAK FILE APPLICABILITY

MODEL	PAK FILE NAME	NEW ECM PART NUMBER	OLD ECM PART NUMBER
Legacy / Outback	87501AL003.pak	87501AL003	87501AL002
Impreza / XV Crosstrek	87501FJ032.pak	87501FJ032	87501FJ031
WRX	87501VA012.pak	87501VA012	87501VA011

## FlashWrite INFORMATION

PAK FILE NAME	DECRYPTION KEYWORD	CONTROL SOFTWARE VERSION*
87501AL003.pak	CB28A80C	00006394
87501FJ032.pak	60182D70	00006391
87501VA012.pak	37CC8AE5	00006393

\* After reprogramming the Driver Assist System please verify that the correct Control Software Version is displayed.

## REPAIR PROCEDURE

### 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.

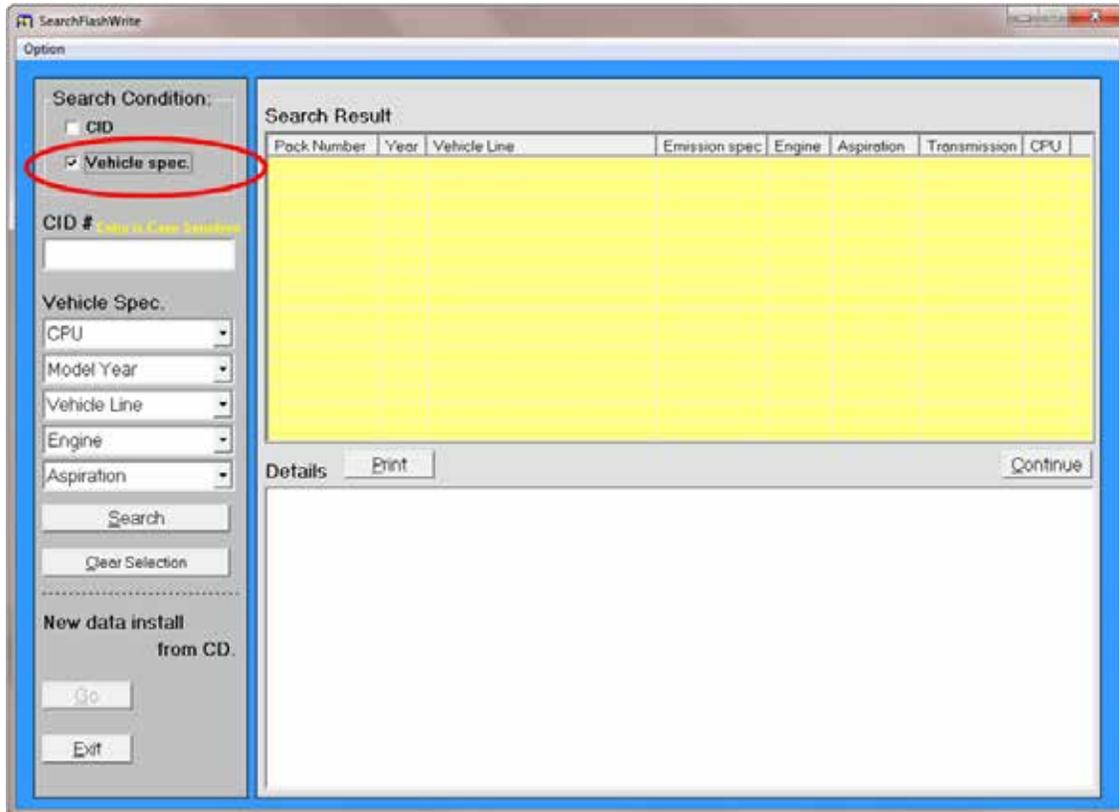
**VERY IMPORTANT:** This information is applicable to the Midtronics GR8 Diagnostic Battery Charger **ONLY**. It does not apply to any other brand / type of “generic” battery charger whatsoever. **ONLY** the GR8 and its Power Supply Mode feature has been tested and approved by SOA.

- 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.

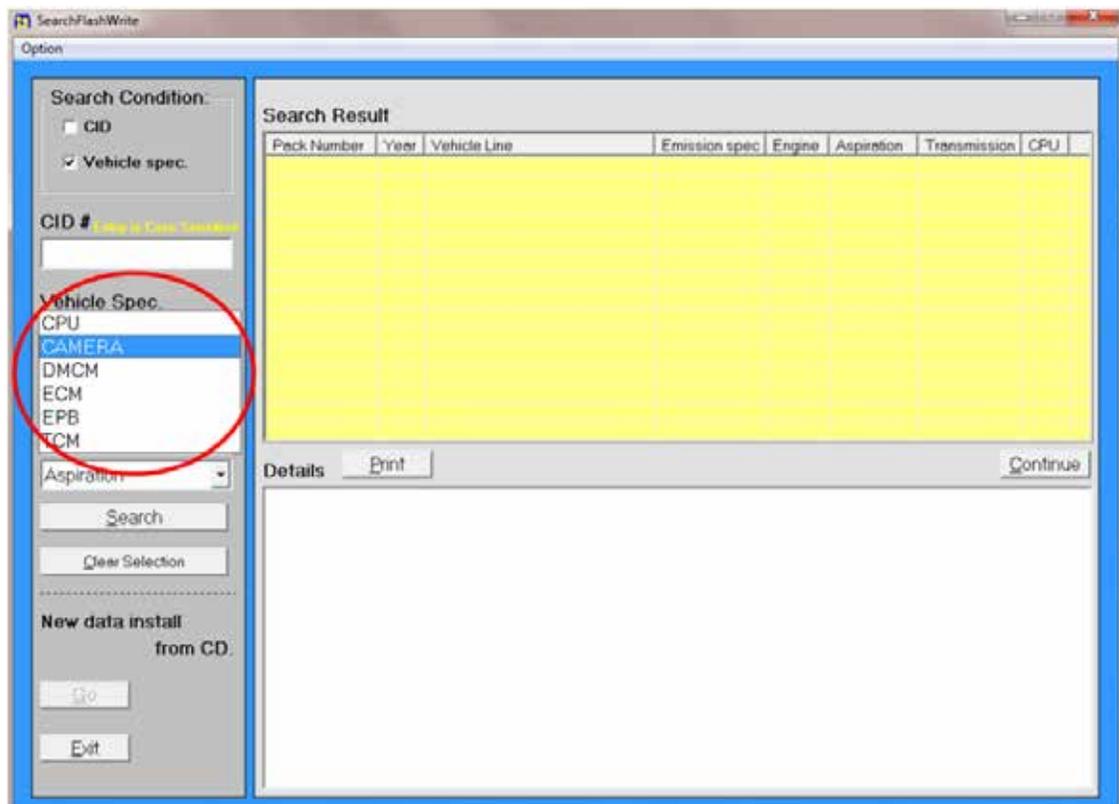
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## Reprogram the Driver Assist System

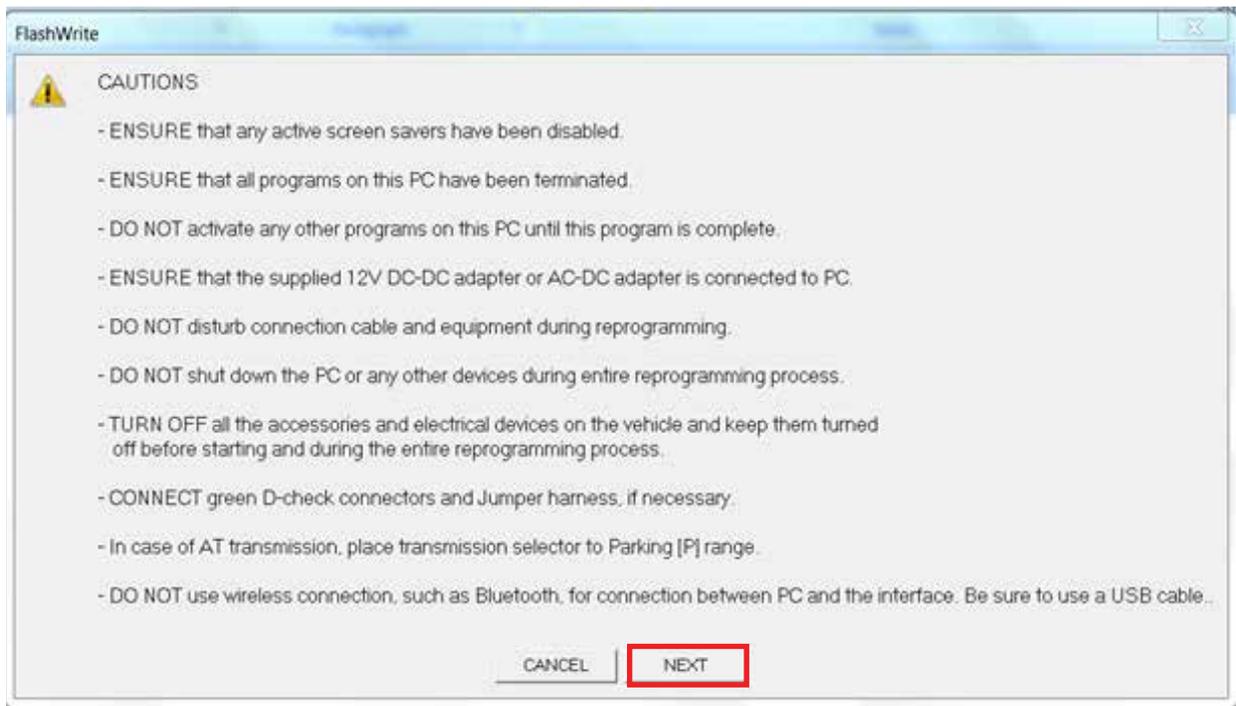
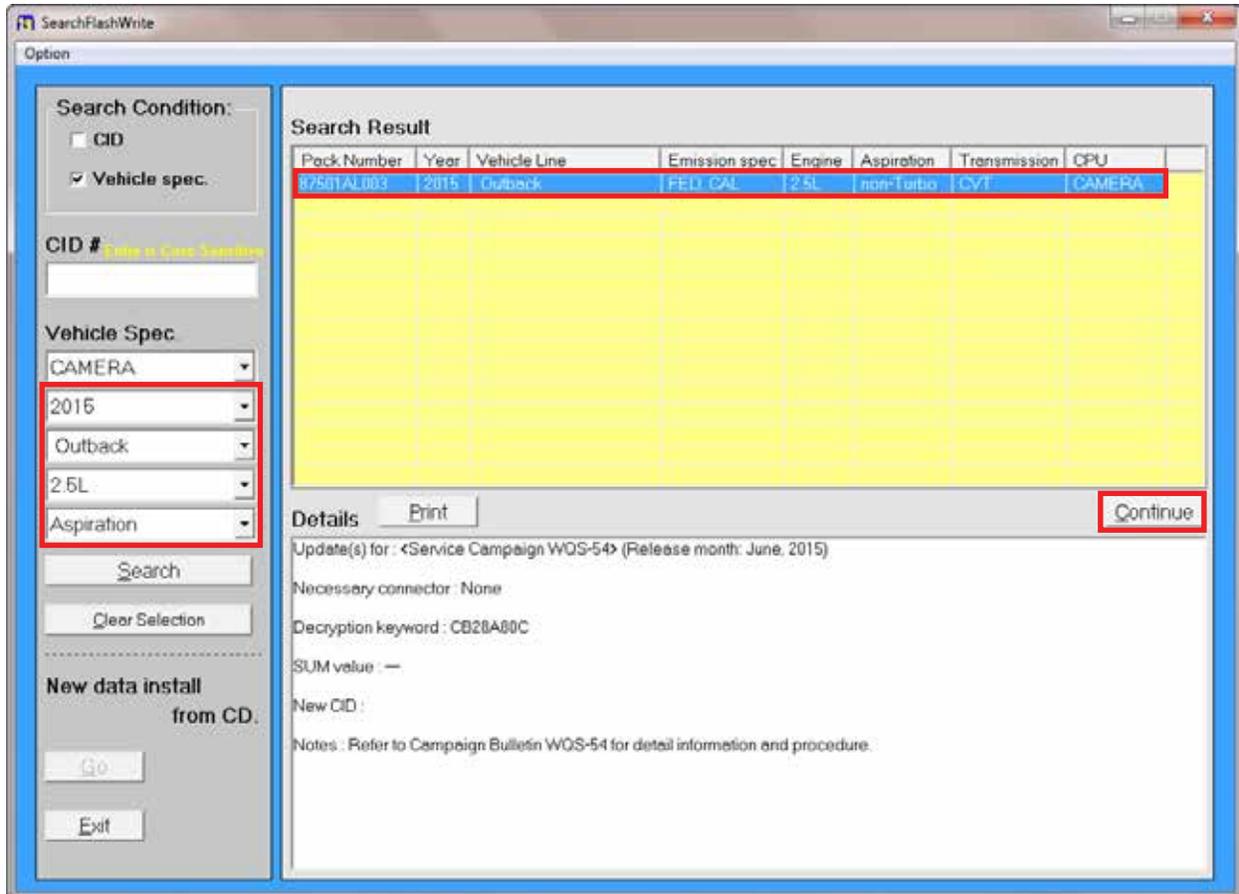
Open FlashWrite application. Click the box “Vehicle spec.”

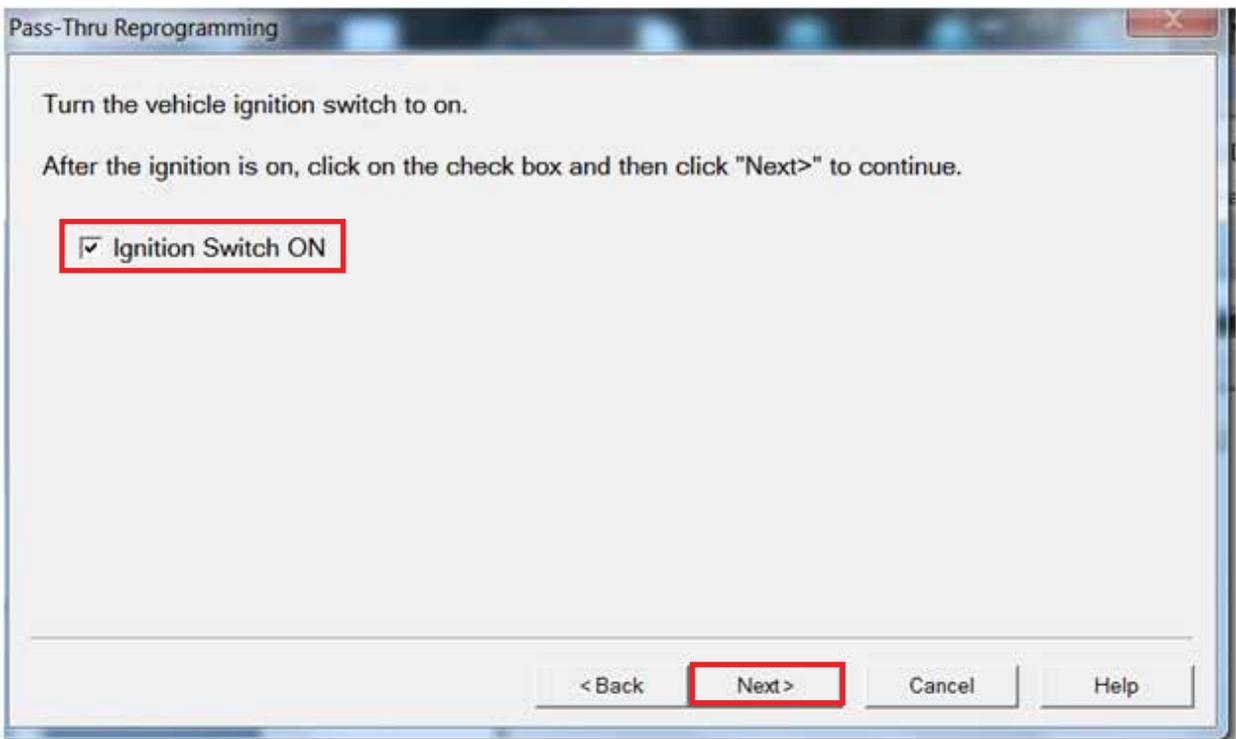


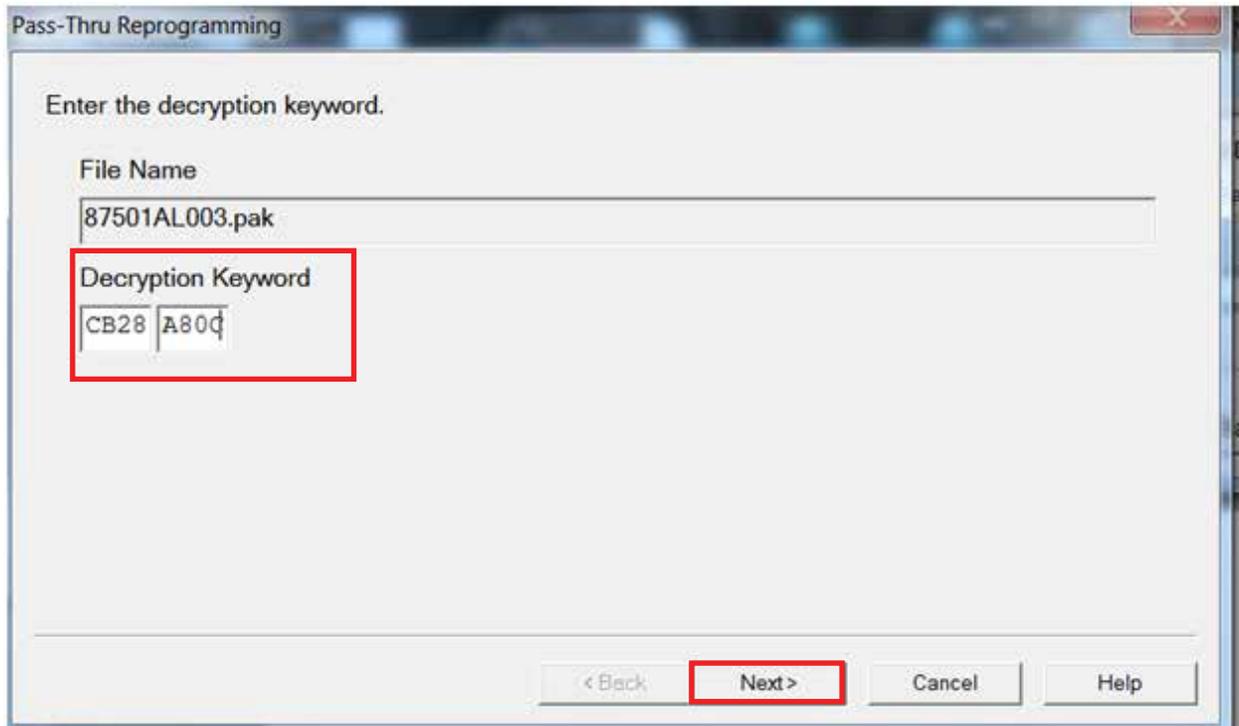
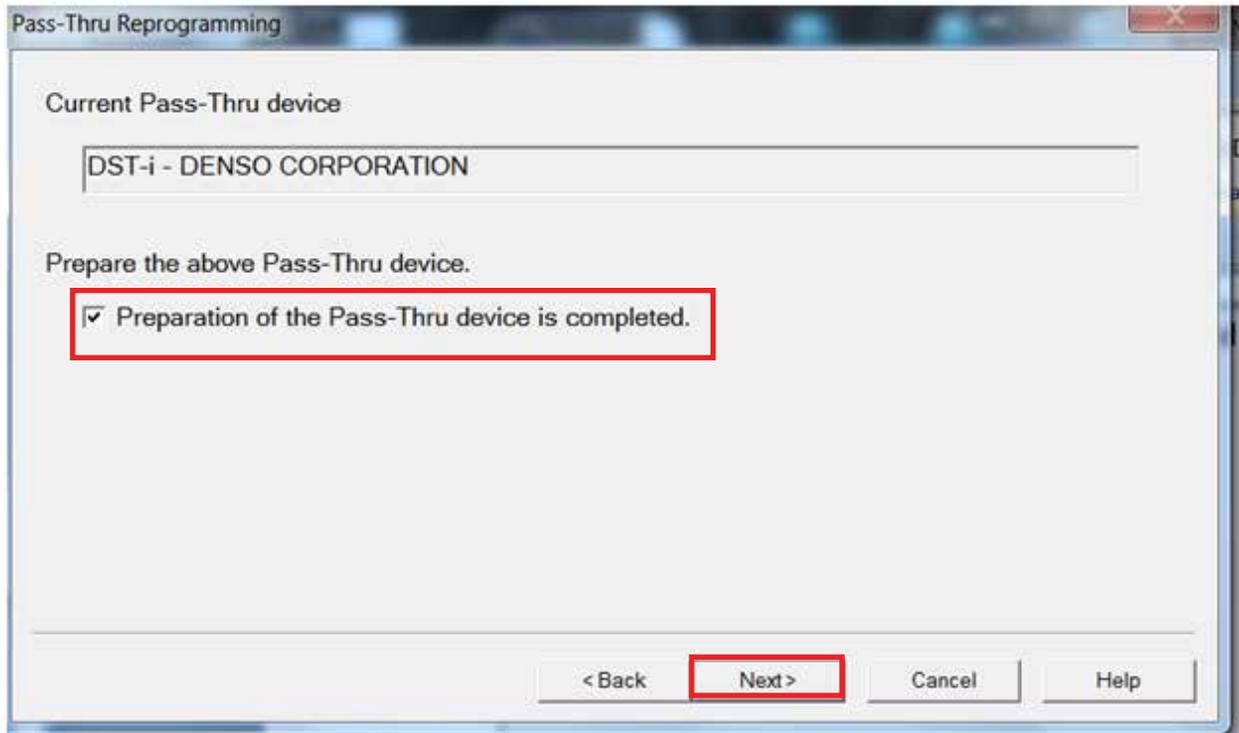
Click on the drop down box for CPU and Select CAMERA

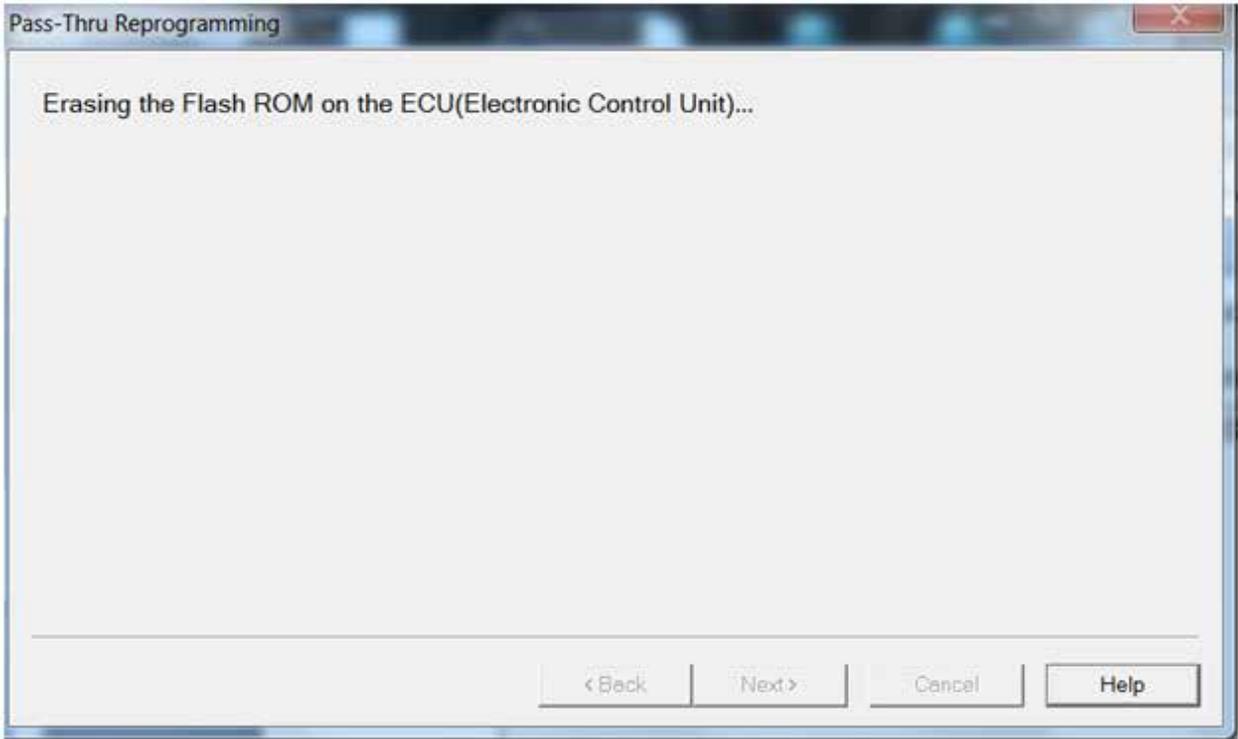
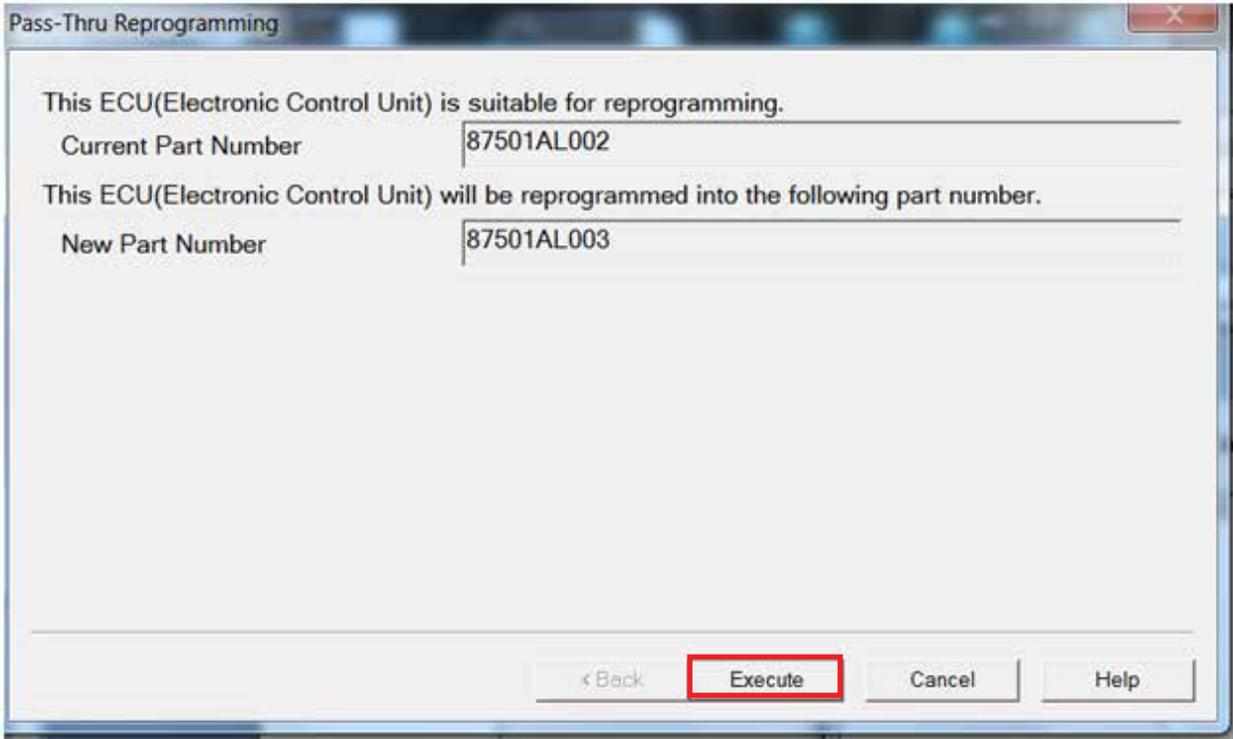


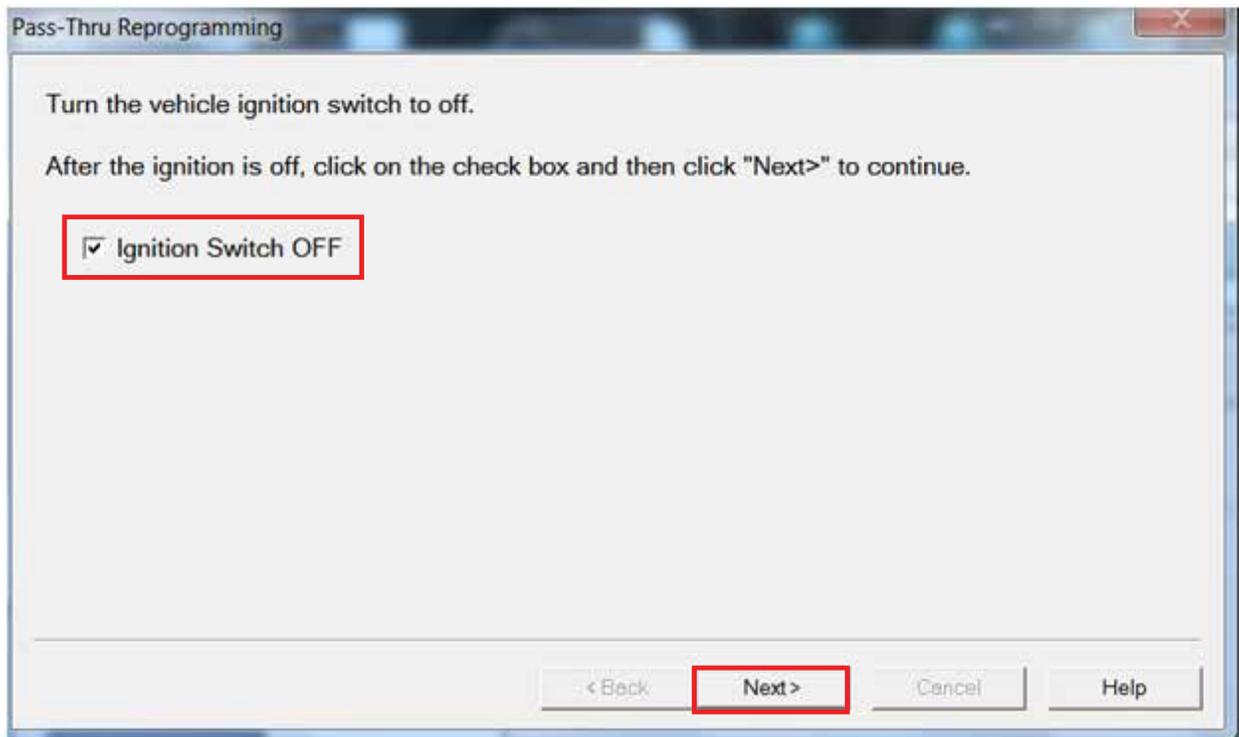
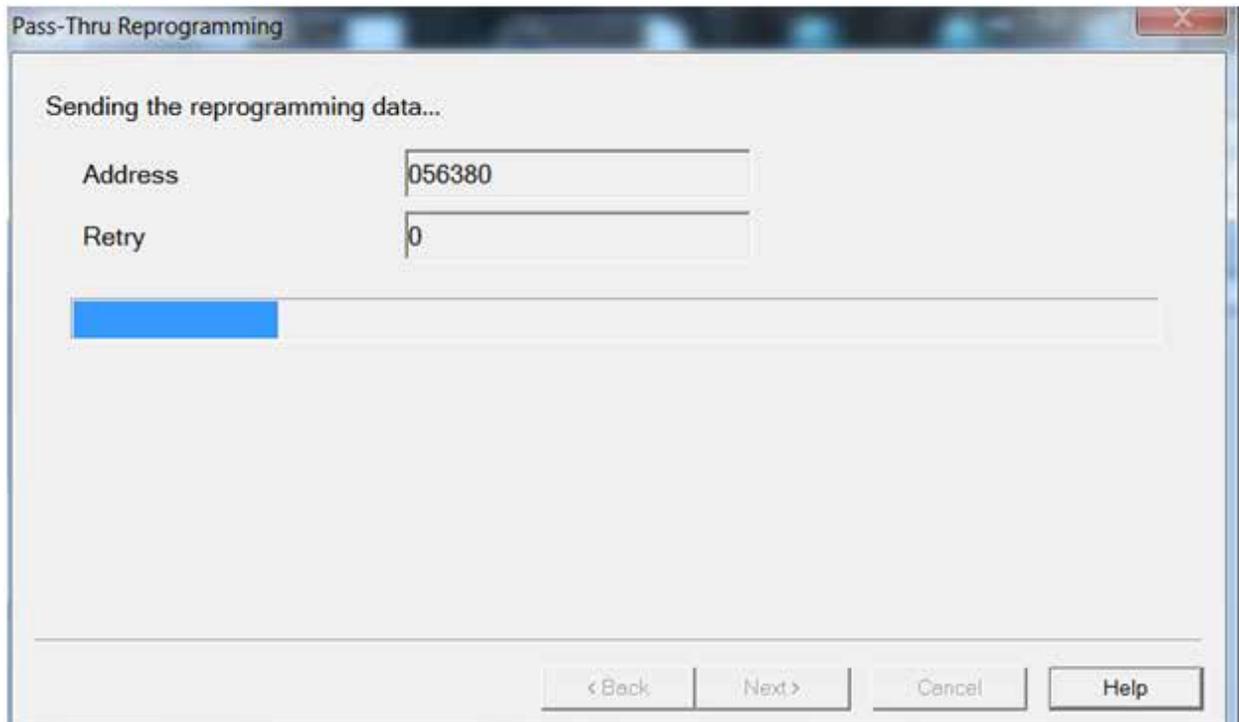
Using the drop down boxes, select the applicable vehicle  
Under Search Result, highlight applicable file, click “Continue”

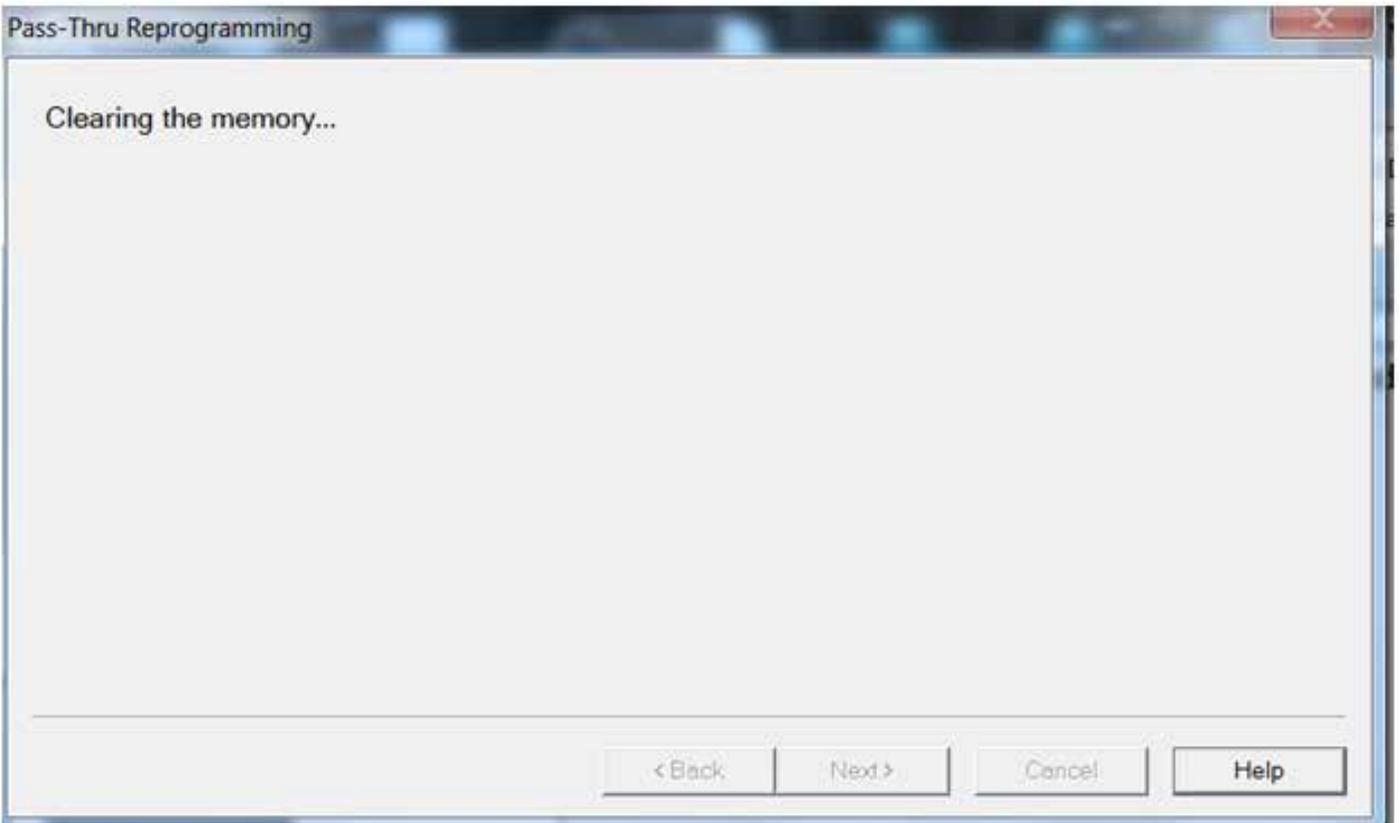
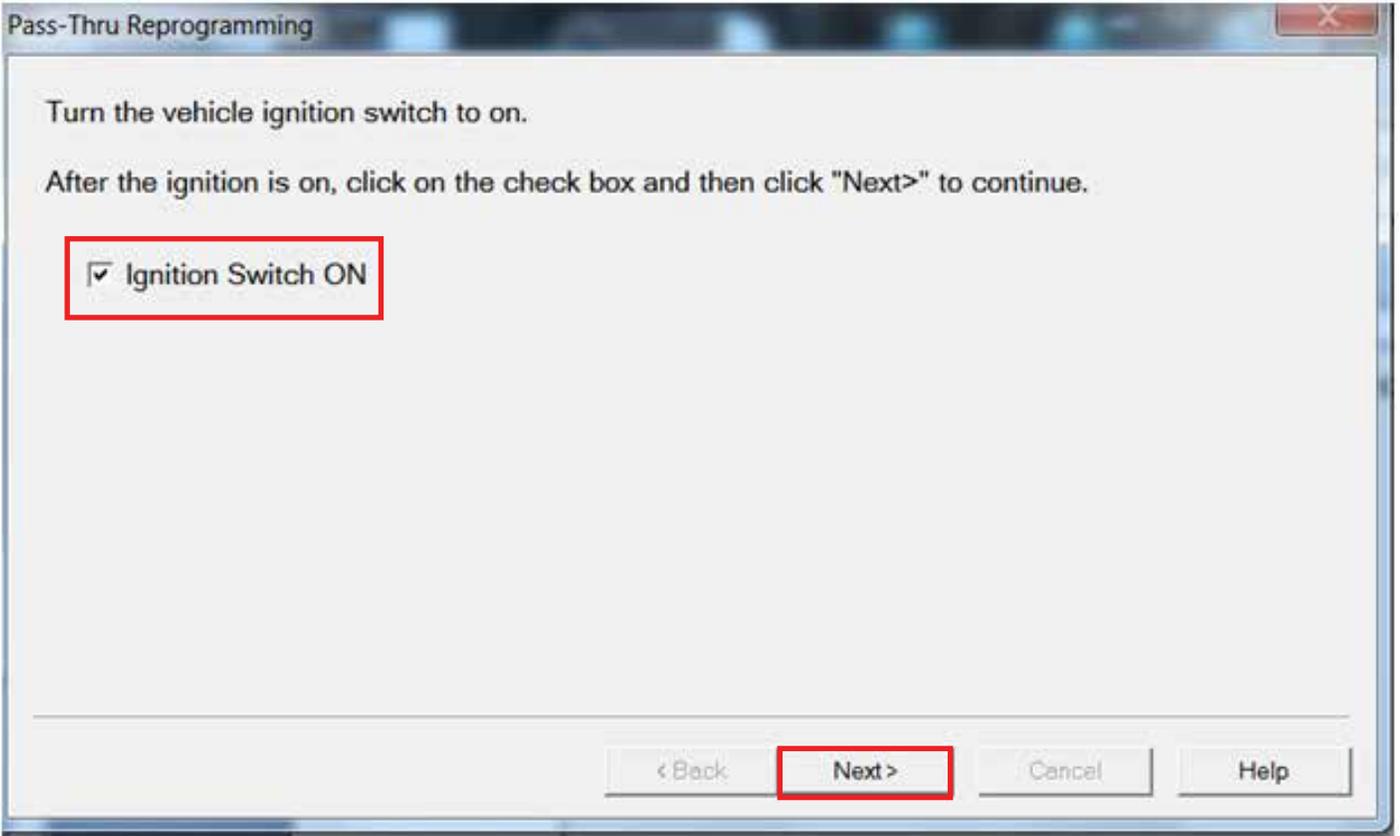












Reprogramming is now complete.  
Turn the vehicle ignition switch to off.

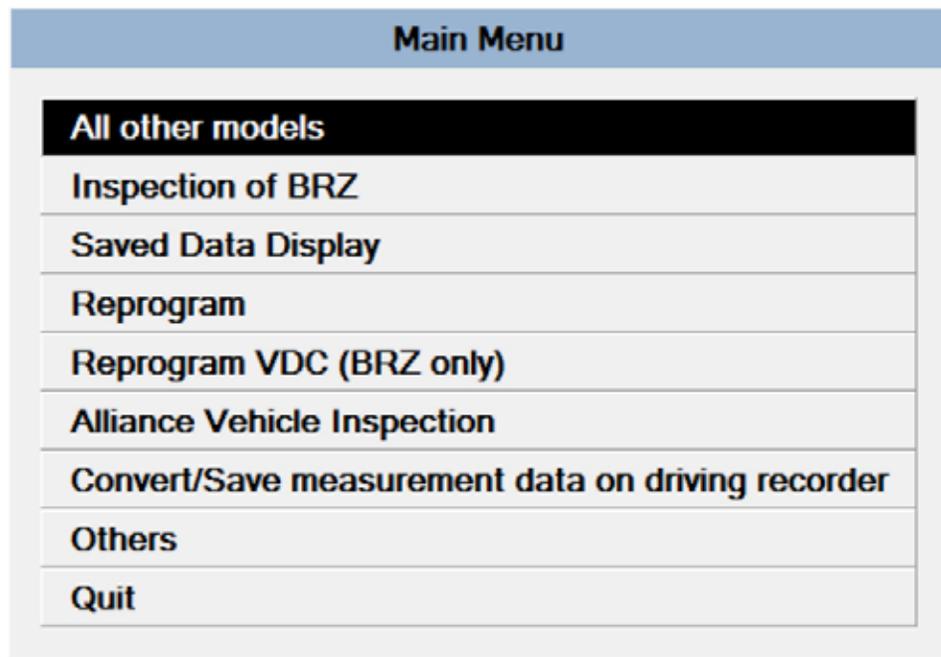
< Back

Finish

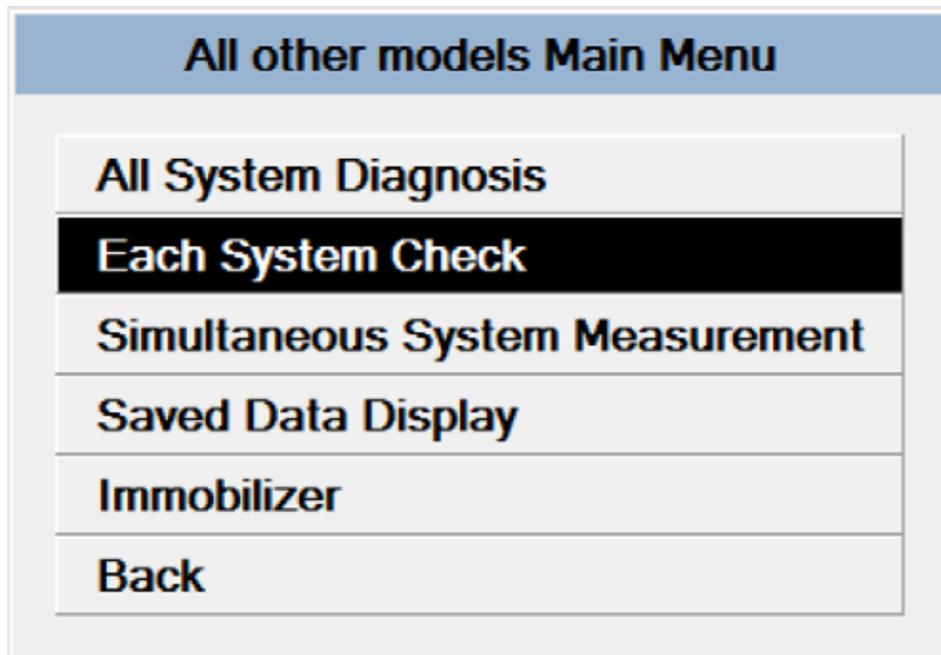
Help

After reprogramming verify the Control Software Version\* using the SSMIII as follows.

Select “All other models”



Select “Each System Check”



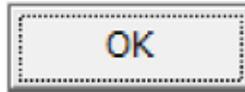
Select “ADA adaptive cruise control system”

System Selection Menu
Engine Control System
Transmission Control System
Cruise Control System
Brake Control System
Entry VIN
Tire pressure monitor
Integ. unit mode
Occupant Detection System
Impact Sensor
Airbag System
Brake Vacuum Pump System
Keyless Unit Mode
Air Suspension System
Air Condition System
Power Steering System
Keyless access system
<b>ADA adaptive cruise control system</b>
OBD System
Automatic Light and Wiper system
Combination meter

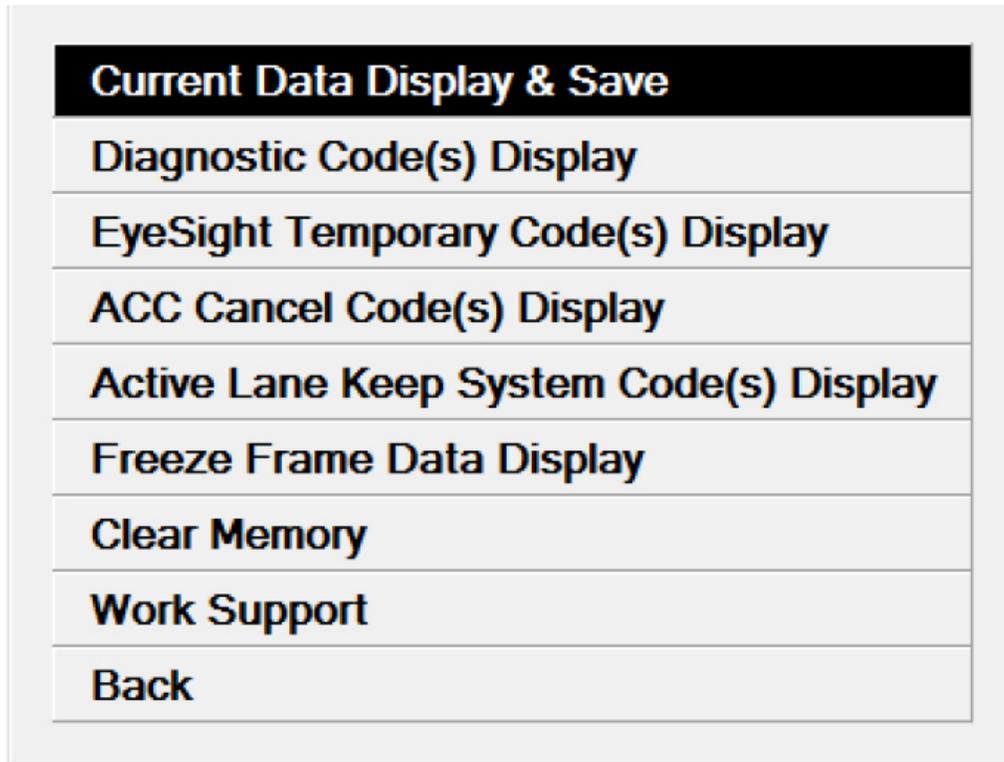
Select the highlighted box below

ADA adaptive cruise control system
<b>EyeSight (from 2009MY)</b>
ADA camera type (until 2008MY)
Adaptive cruise control, radar type
Back

Click “OK”



Select “Current Data Display & Save”



Verify the value of “Control Software Version”

Number of samples 15  
32.16 s from sampling start

Item	Value	Unit	Maximum	Minimum	Average
<input type="checkbox"/> Camera ID	014409170410		-	-	-
<input checked="" type="checkbox"/> Control Software Version	00006394		-	-	-
<input type="checkbox"/> Recognition Software Version	1F401004		-	-	-
<input type="checkbox"/> Model Registration	521108446910		-	-	-
<input type="checkbox"/> ECU Power Supply Voltage (IG)	11.5	V	11.5	11.5	11.5
<input type="checkbox"/> Initial Aiming Completion Status	Finished		-	-	-
<input type="checkbox"/> Aiming Completion Status	Not Finish		-	-	-
<input type="checkbox"/> Ignition SW ON Count	2675	Time	2675	2675	2675
<input type="checkbox"/> Trip Meter	13022.5	km	13022.5	13022.5	13022.5
<input type="checkbox"/> Front Axle Wheel Average Speed	0.00	km/h	0.00	0.00	0.00
<input type="checkbox"/> Engine Speed	0	rpm	0	0	0
<input type="checkbox"/> Accelerator Opening Angle	0	%	0	0	0
<input type="checkbox"/> ETC Throttle Angle Signal	7	%	7	7	7
<input type="checkbox"/> Steering Angle Sensor Value (Ri...)	8.8	deg	8.8	8.7	8.7
<input type="checkbox"/> Longitudinal G Sensor Value (D...)	0.0	m/s <sup>2</sup>	0.0	0.0	0.0
<input type="checkbox"/> Brake Fluid Target Pressure	0.000	MPa	0.000	0.000	0.000
<input type="checkbox"/> Master Cylinder Actual Fluid Pre...	0.00	MPa	0.00	0.00	0.00
<input type="checkbox"/> Right Front Wheel W/C Actual FL...	0.00	MPa	0.00	0.00	0.00
<input type="checkbox"/> Left Front Wheel W/C Actual Flu...	0.00	MPa	0.00	0.00	0.00
<input type="checkbox"/> Target Torque	-100.0	Nm	-100.0	-100.0	-100.0
<input type="checkbox"/> Actual Engine Torque	14.8	Nm	14.8	14.8	14.8
<input type="checkbox"/> Engine Torque Down Target Val...	408.0	Nm	408.0	408.0	408.0
<input type="checkbox"/> Warning Code	No alarm		-	-	-

Continued...

## RECALL IDENTIFICATION LABEL

Type or print the necessary information on a Recall 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.

<b>SUBARU</b>
Campaign Code
<b>WQS-54</b>
COMPLETED
DIST./DEALER NO.
SERIAL NO.
<b>DO NOT REMOVE</b>

## CLAIM REIMBURSEMENT AND ENTRY PROCEDURES

Credit to perform this recall will be based on the submission of properly completed repair order information. Dealers may submit claims through Vehicle Claim Entry on [Subarunet.com](http://Subarunet.com).

CLAIM TYPE	CAMPAIGN CODE	LABOR	DESCRIPTION	LABOR TIME
RC	WQS-54	A106-778	Driver Assist System Delay in Warning Indicator	0.4