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 INFORMATION

APPLICABILITY: All Models	**NUMBER:** 01-172-14
SUBJECT: Subaru Select Monitor III (SSMIII) Usage Tips	**DATE:** 08/13/14

INTRODUCTION

The purpose of this Service Information bulletin is to provide helpful tips for using the SSMIII diagnostic tool. For some, this information may seem basic or even remedial but for others, very relevant and helpful, especially for those technicians who are new to the Subaru brand. Some of the topics will be especially beneficial when working with the Techline or field staff as part of repair escalation or reporting of new quality concerns. Knowing the proper way to access, save and send (e-mail) requested electronic data and information files can often help expedite accurate repair recommendations and solutions.

Topics covered include:

- Identifying DTCs Stored in Memory
- Accessing and Saving Freeze-Frame Data
- Locating Calibration Identification (CID) and Calibration Verification (CVN) Information
- Saving OBD Data Files
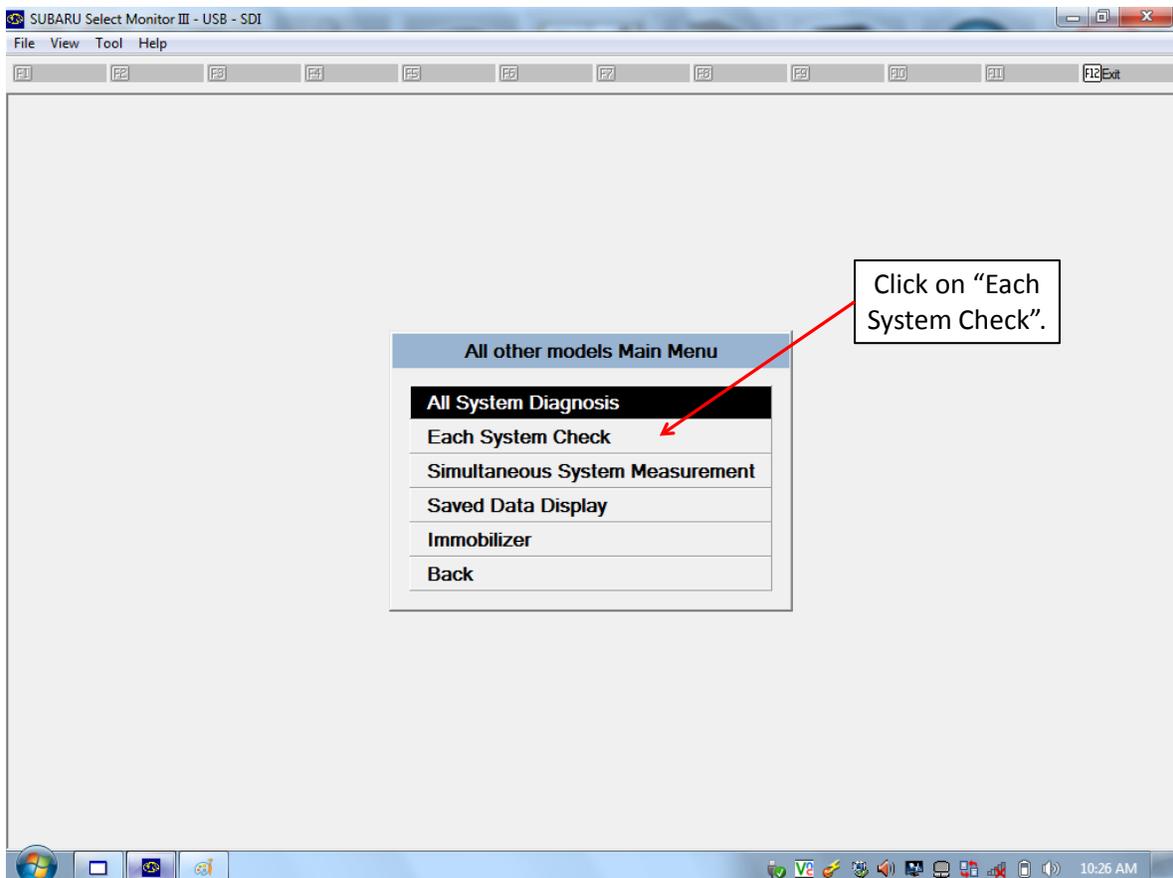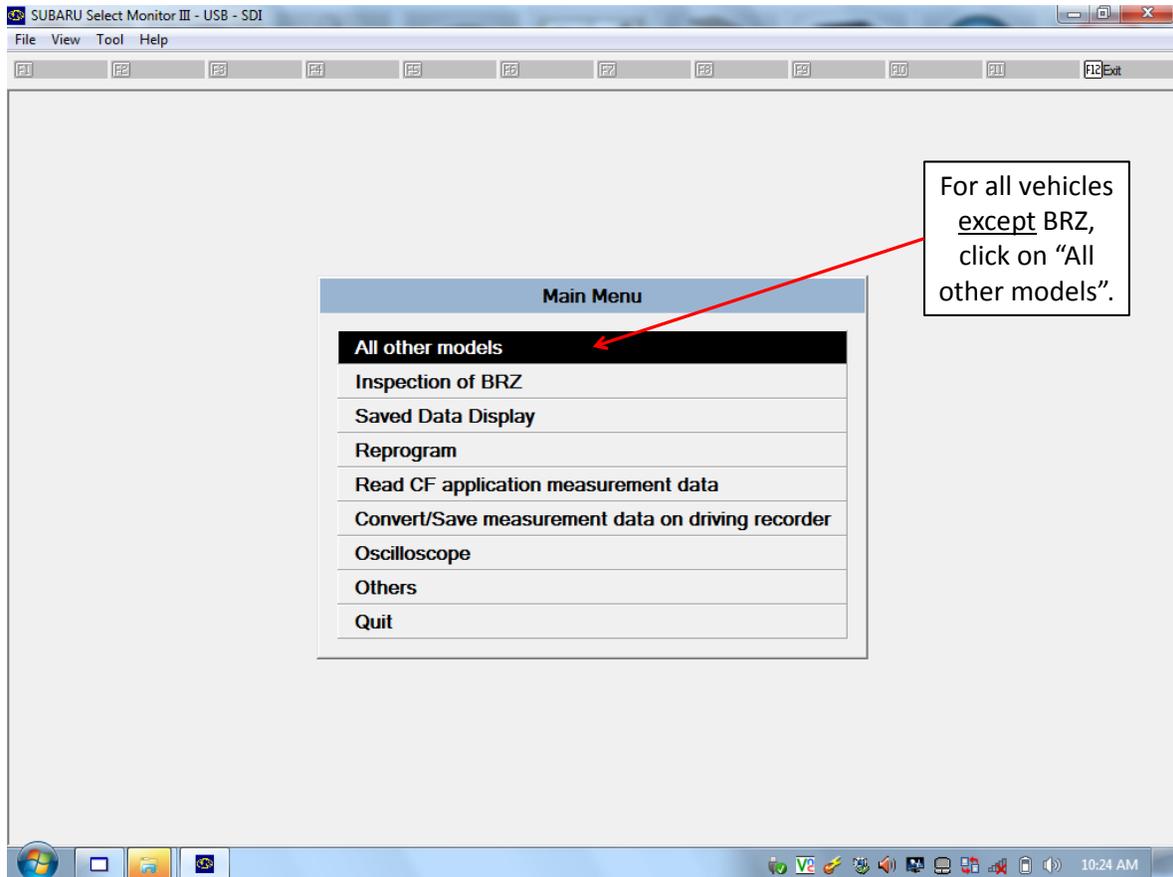- How To Send (or E-Mail) Saved Data Files

SERVICE PROCEDURE

Begin by clicking on the Select Monitor III icon.

Continued...

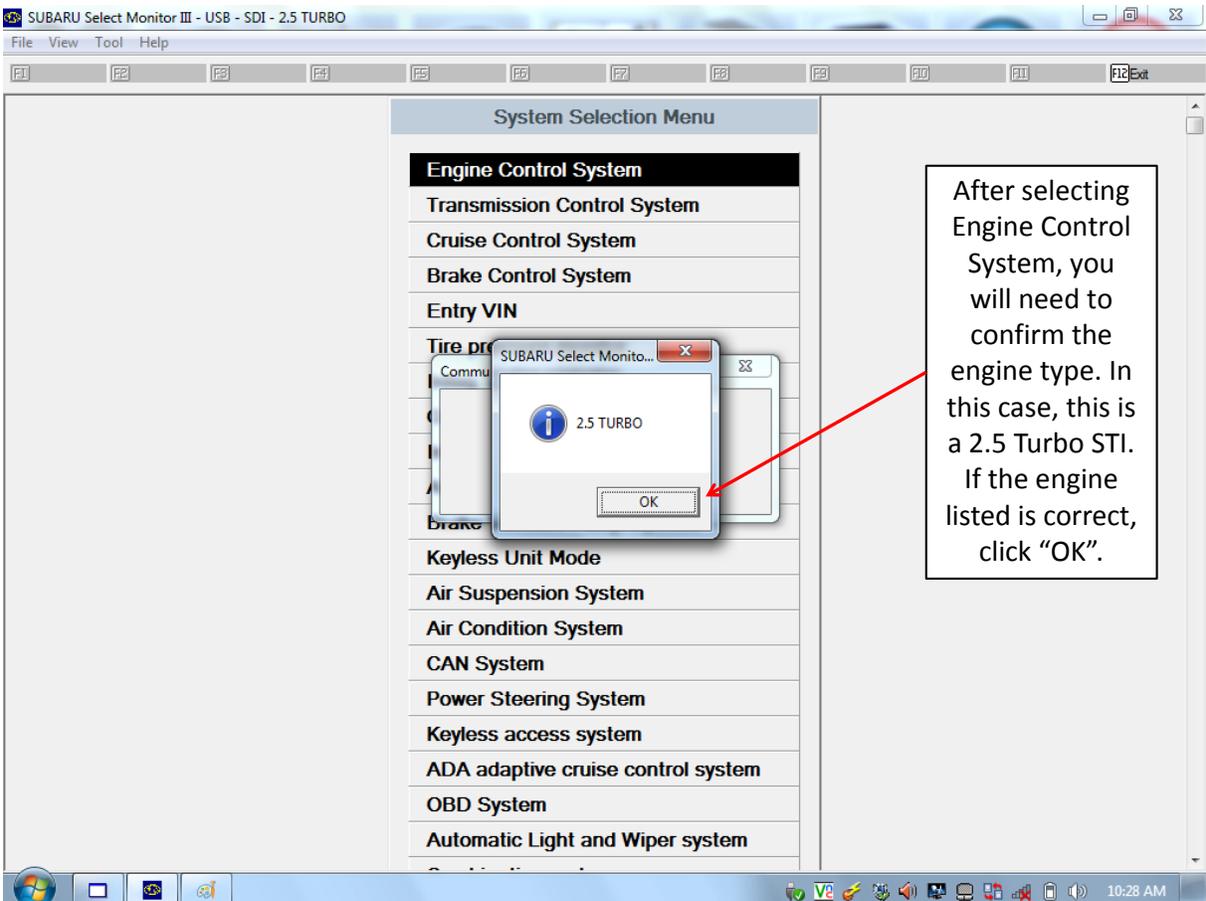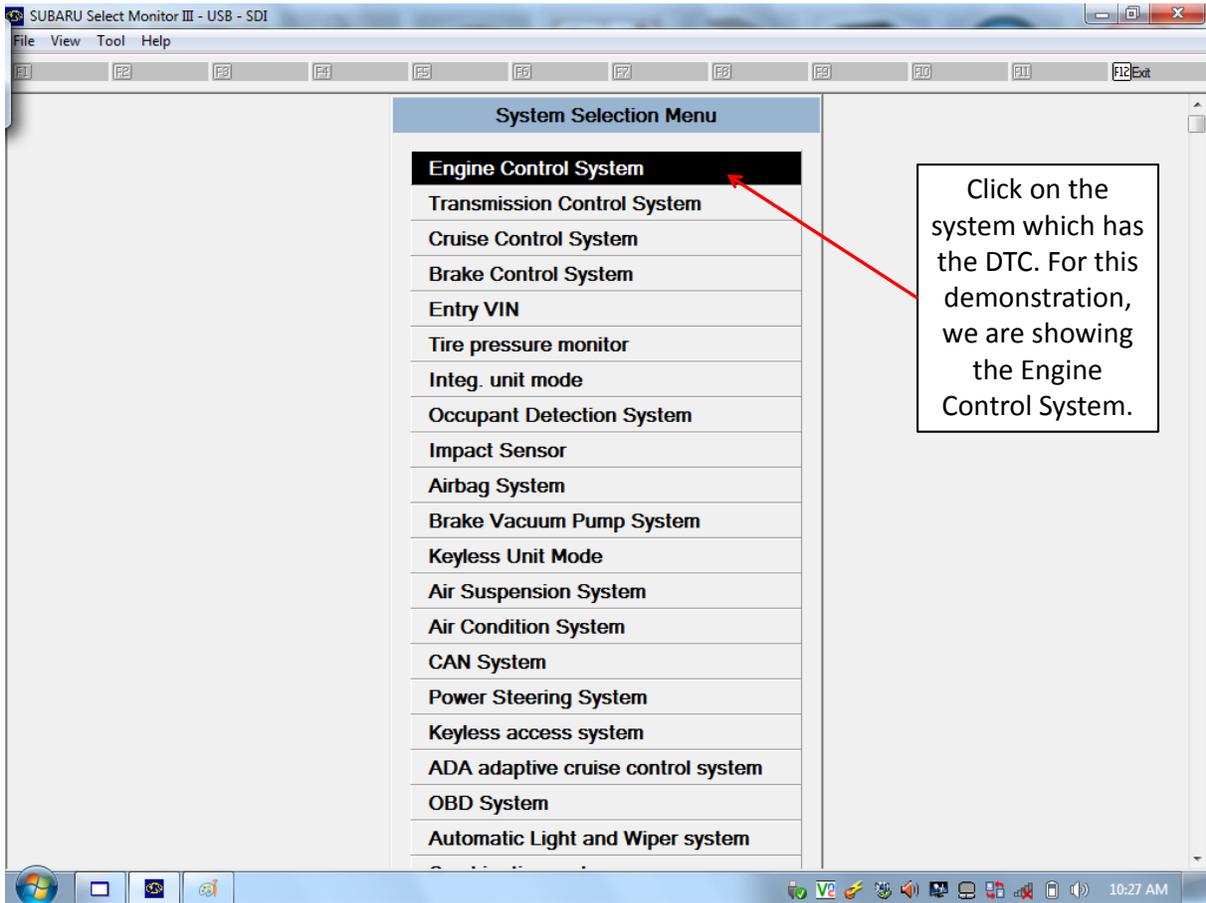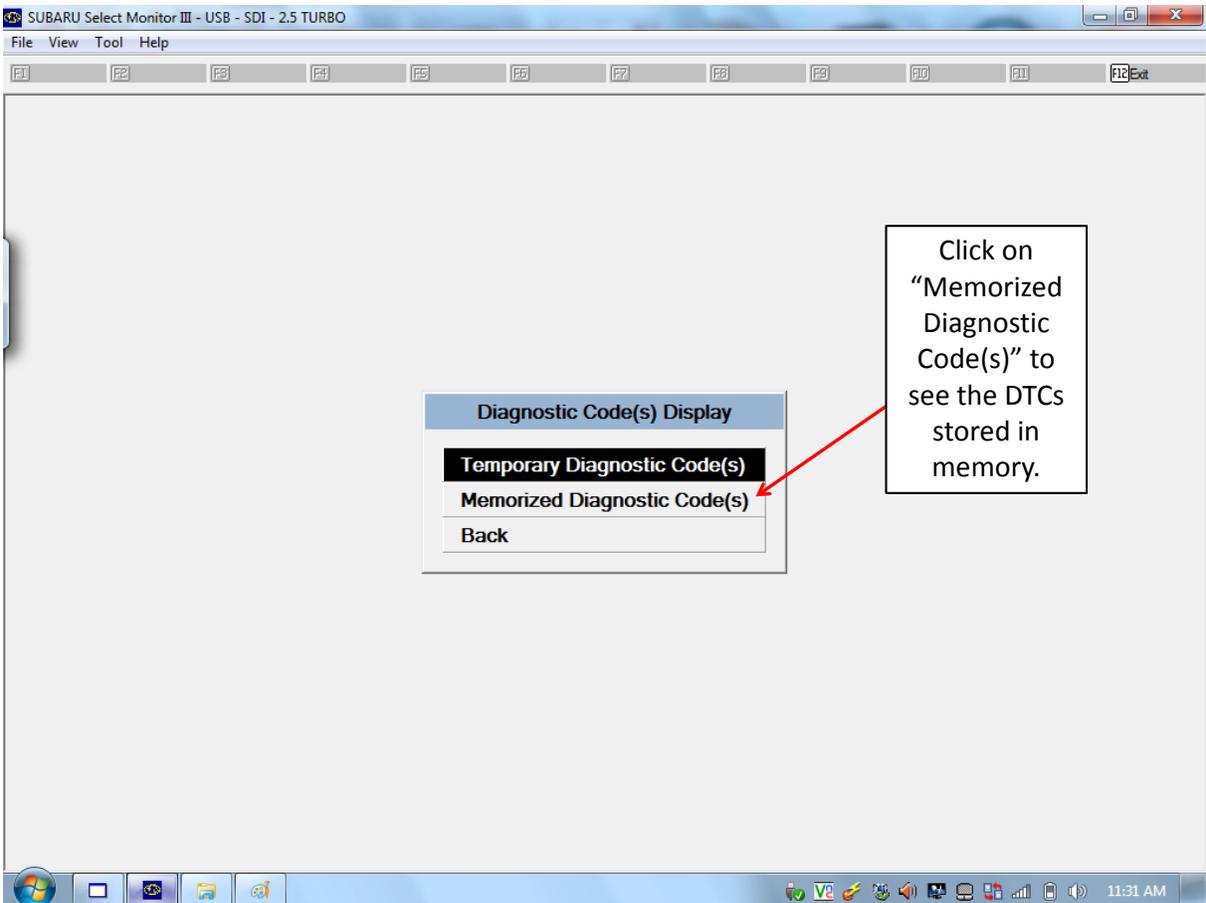|	
CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.	**SUBARU OF AMERICA, INC. IS ISO 14001 COMPLIANT**
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of 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.	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.

Identifying DTCs Stored In Memory

SUBARU Select Monitor III - USB - SDI

File   View   Tool   Help

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Exit

Main Menu

All other models
Inspection of BRZ
Saved Data Display
Reprogram
Read CF application measurement data
Convert/Save measurement data on driving recorder
Oscilloscope
Others
Quit

For all vehicles _except_ BRZ, click on "All other models".

10:24 AM

SUBARU Select Monitor III - USB - SDI

File   View   Tool   Help

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Exit

All other models Main Menu

All System Diagnosis
Each System Check
Simultaneous System Measurement
Saved Data Display
Immobilizer
Back

Click on "Each System Check".

10:26 AM

Continued...

Click on the system which has the DTC. For this demonstration, we are showing the Engine Control System.

After selecting Engine Control System, you will need to confirm the engine type. In this case, this is a 2.5 Turbo STI. If the engine listed is correct, click "OK".

Continued...

Engine Diagnosis

- Current Data Display & Save
- Diagnostic Code(s) Display
- Cancel Code(s) Display
- Clear Memory
- System Operation Check Mode
- Dealer Check Mode Procedure
- OBD System
- Entry VIN
- Driving recorder
- Roughness monitor
- Select/save sampling items
- Back

To retrieve the DTCs stored in memory, click on "Diagnostic Code(s) Display".

Diagnostic Code(s) Display

- Temporary Diagnostic Code(s)
- Memorized Diagnostic Code(s)
- Back

Click on "Memorized Diagnostic Code(s)" to see the DTCs stored in memory.

Continued...
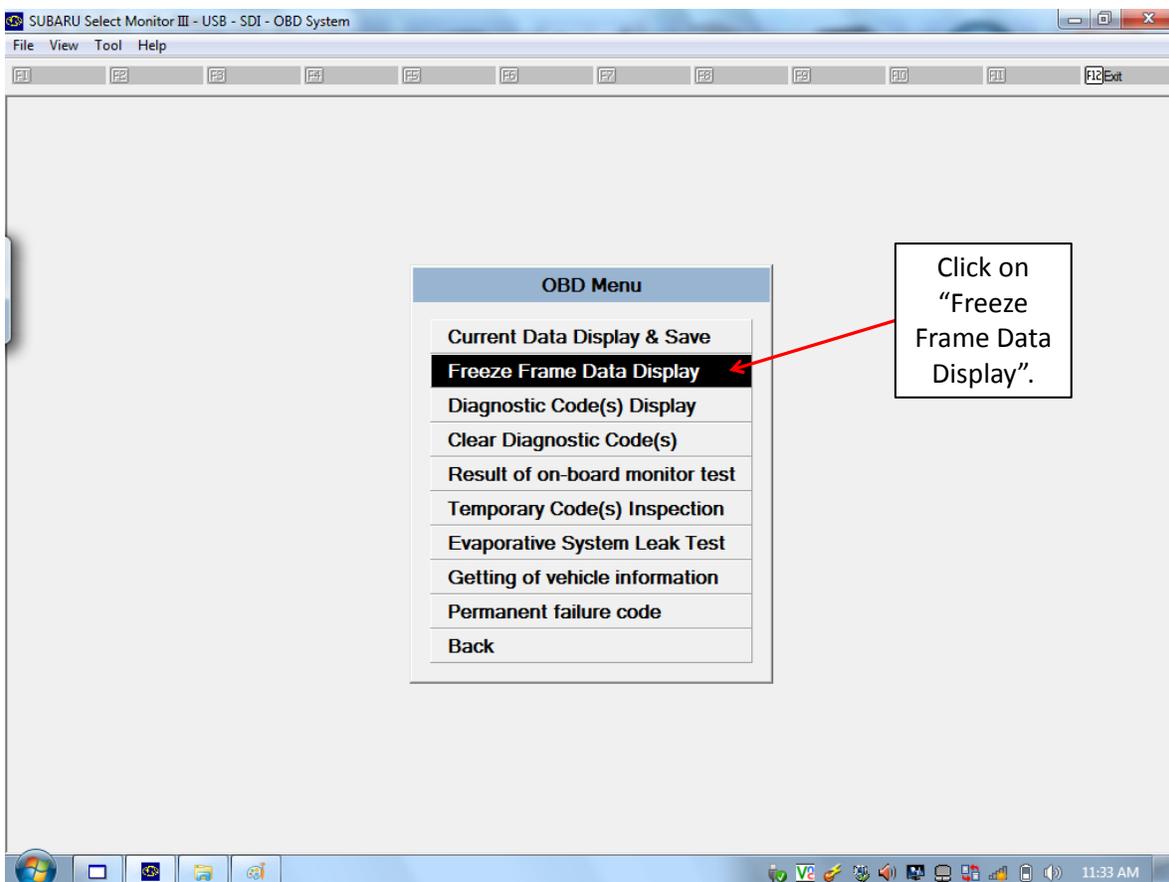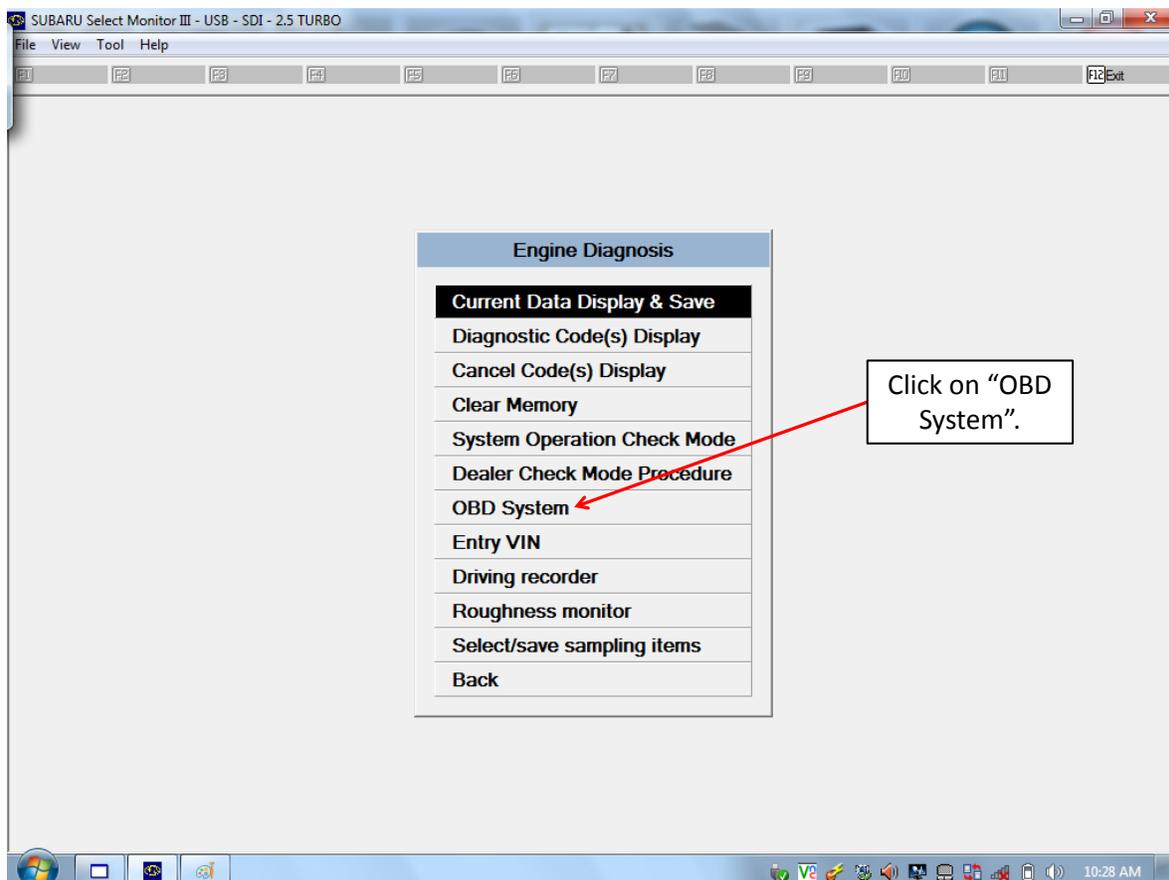
SUBARU Select Monitor III – USB - SDI - 2.5 TURBO

File   View   Tool   Help

| F1 | F2 Clear | F3 | F4 | F5 | F6 | F7 | F8 Print | F9 Save | F10 | F11 | F12 Exit |

Code	Description & trouble position	
Memorized Diagnostic Code(s) Number of Diagnostic Code(s): 1		
P0117	Engine Coolant Temp. Sensor Circuit Low Input	

P0117 is the only DTC stored in the engine computer (ECM) at this time. To save this, click on the F9 button above.

11:31 AM

SUBARU Select Monitor III – USB - SDI - 2.5 TURBO

File   View   Tool   Help

| F1 | F2 Clear | F3 | F4 | F5 | F6 | F7 | F8 Print | F9 Save | F10 | F11 | F12 Exit |
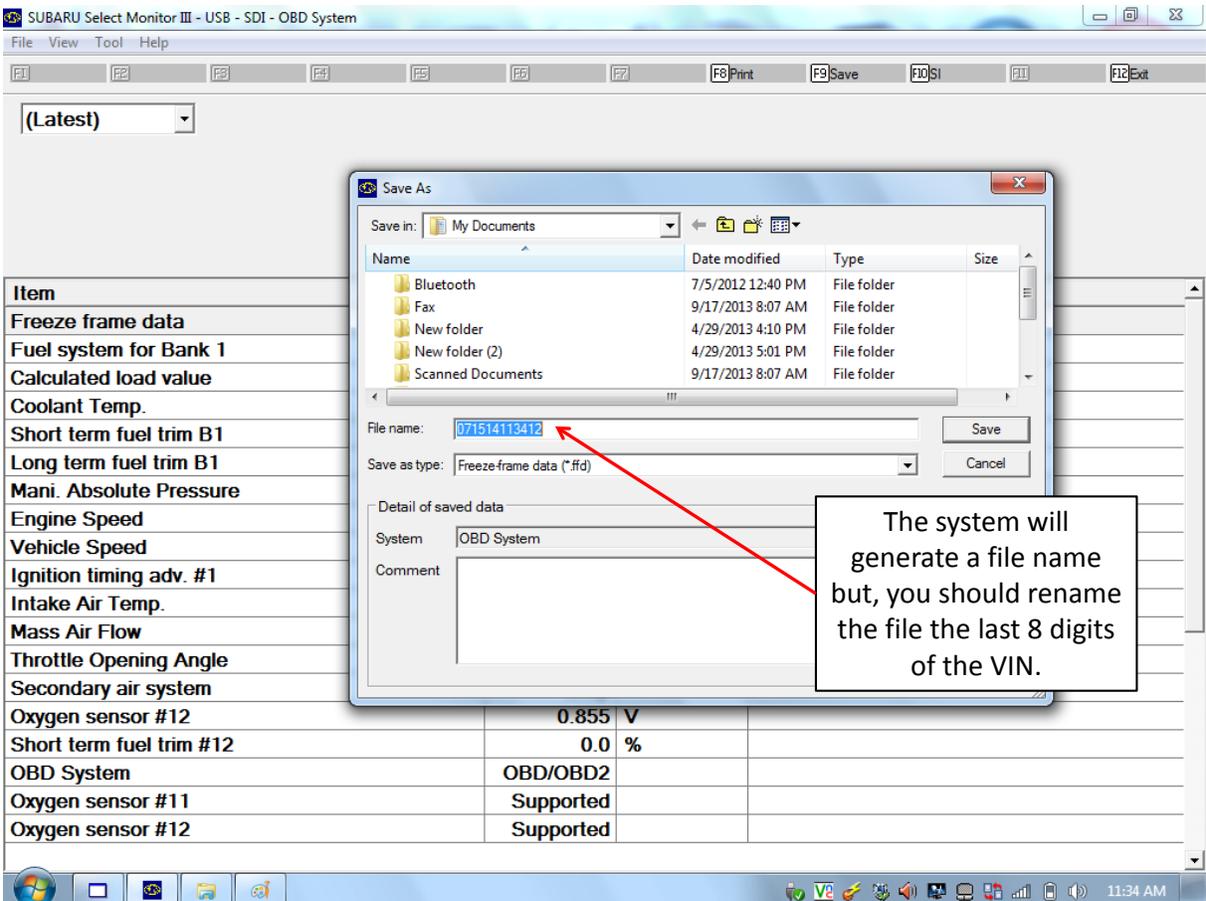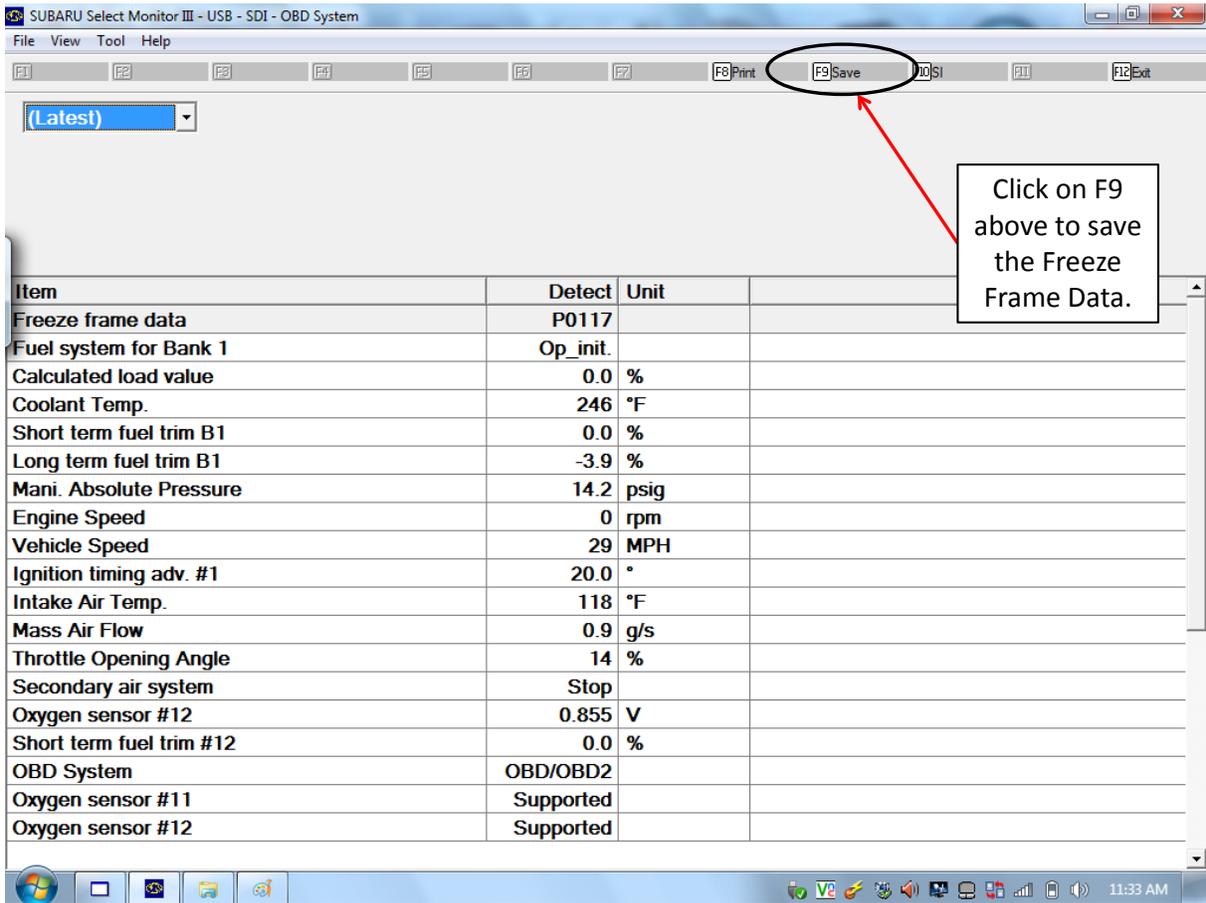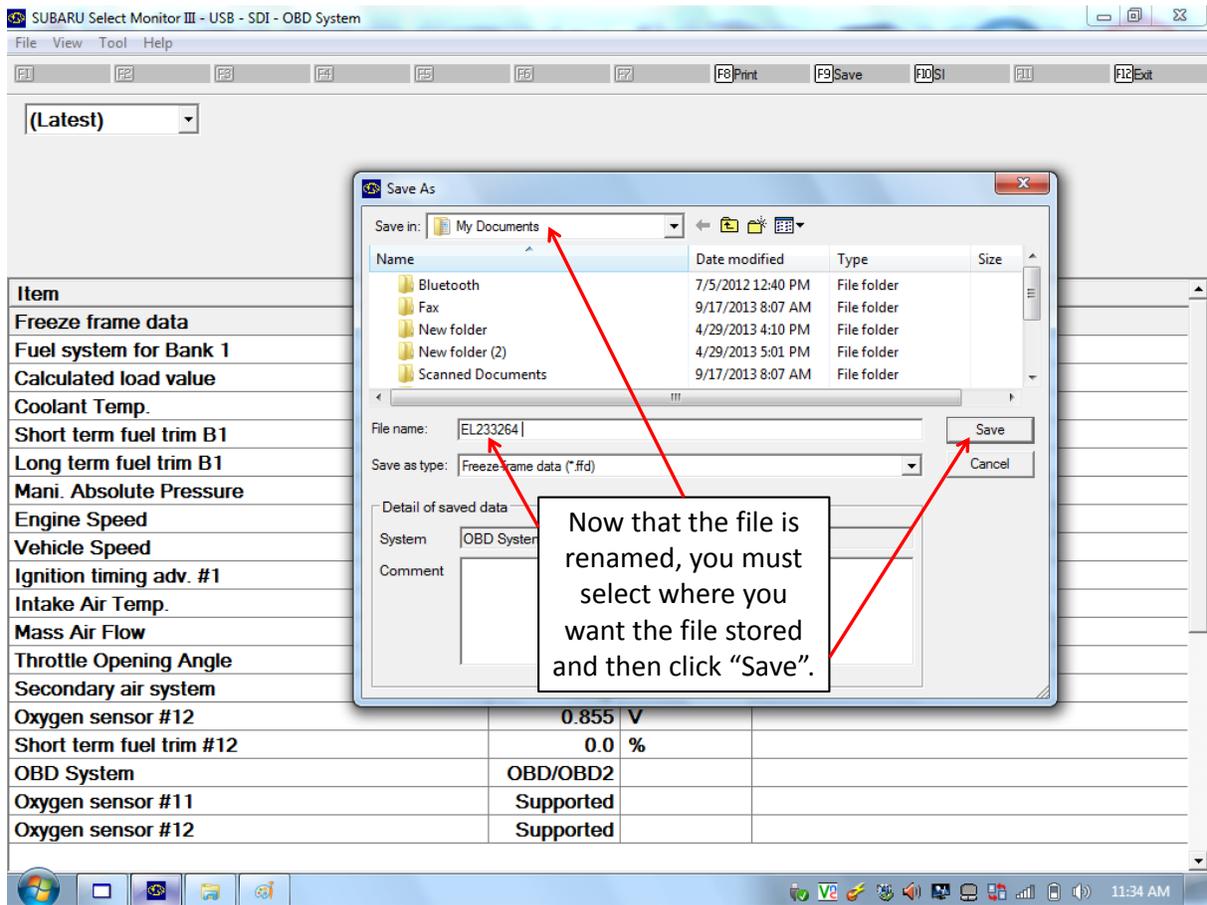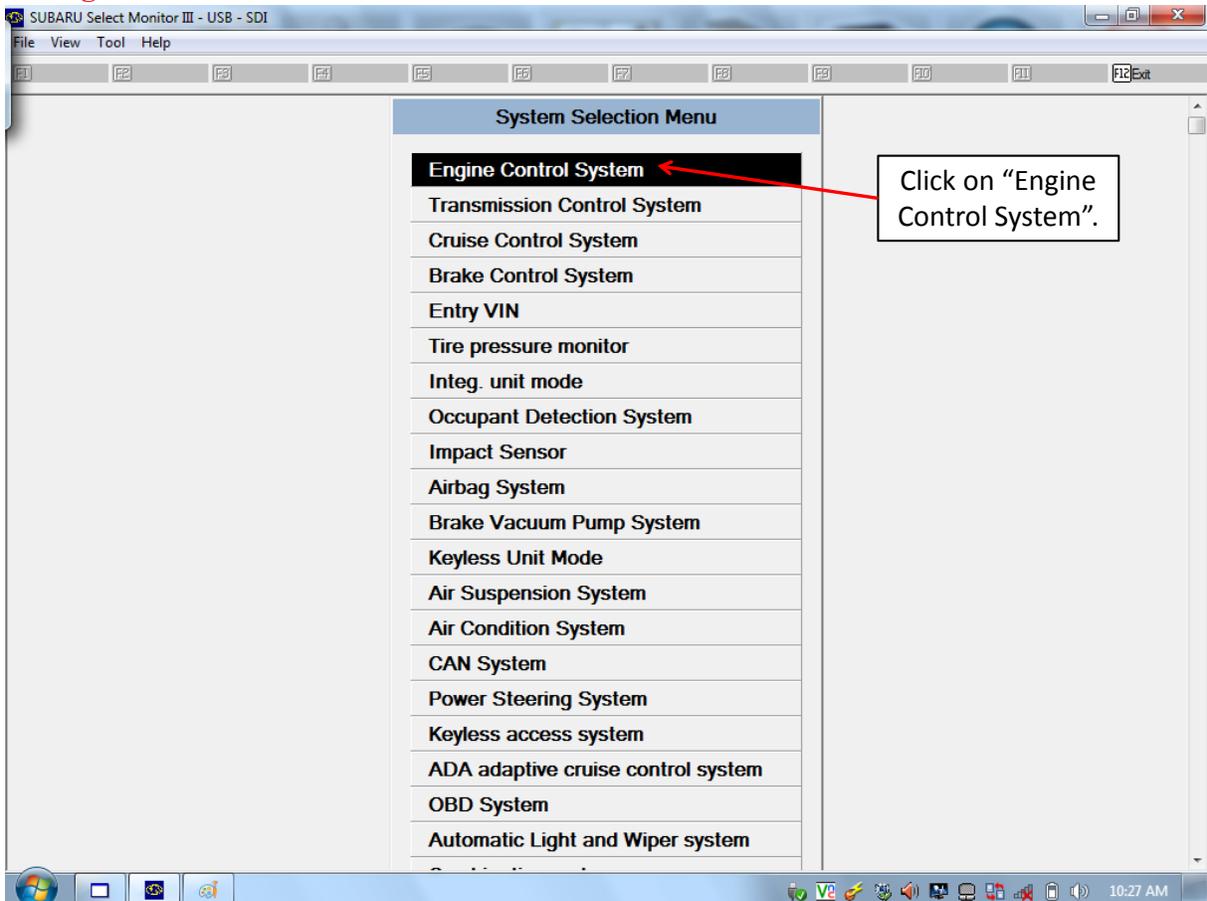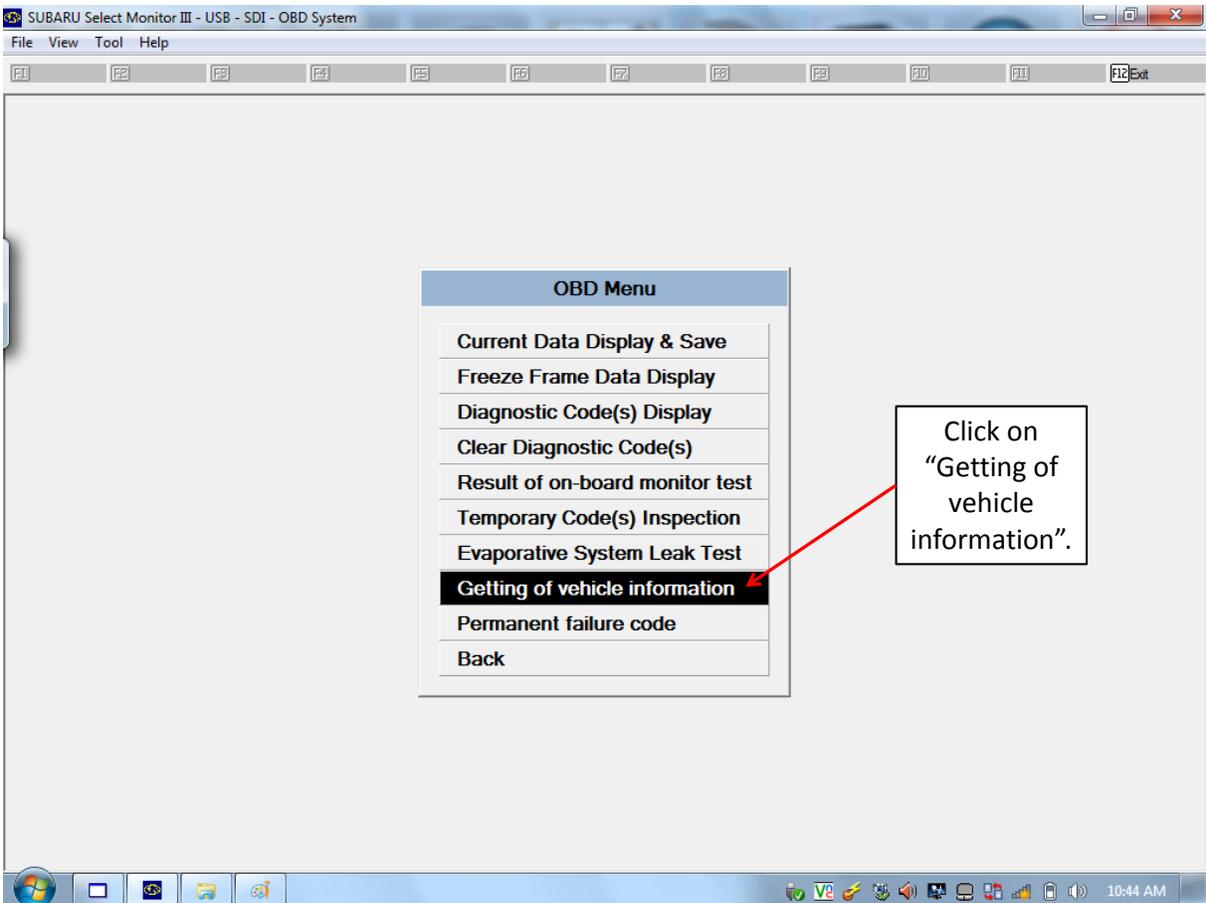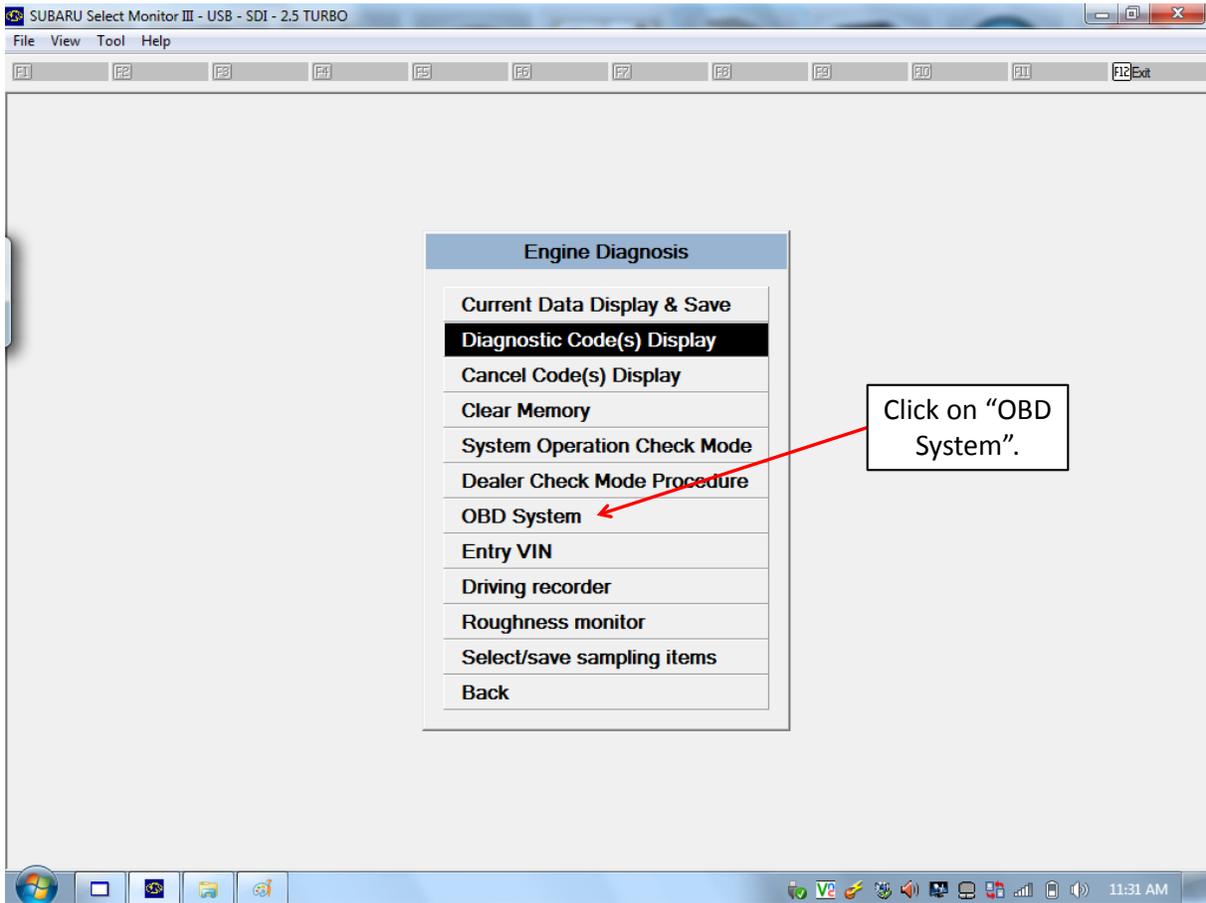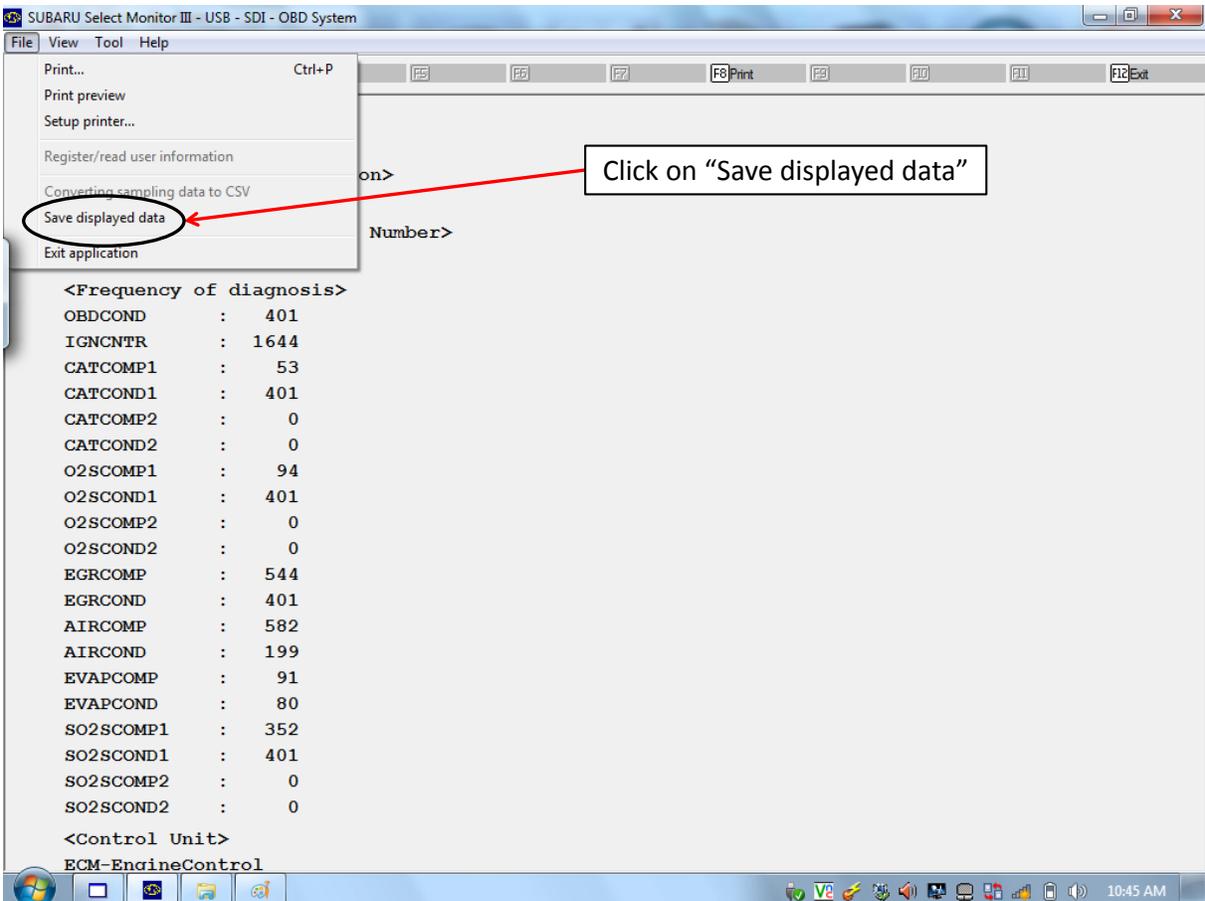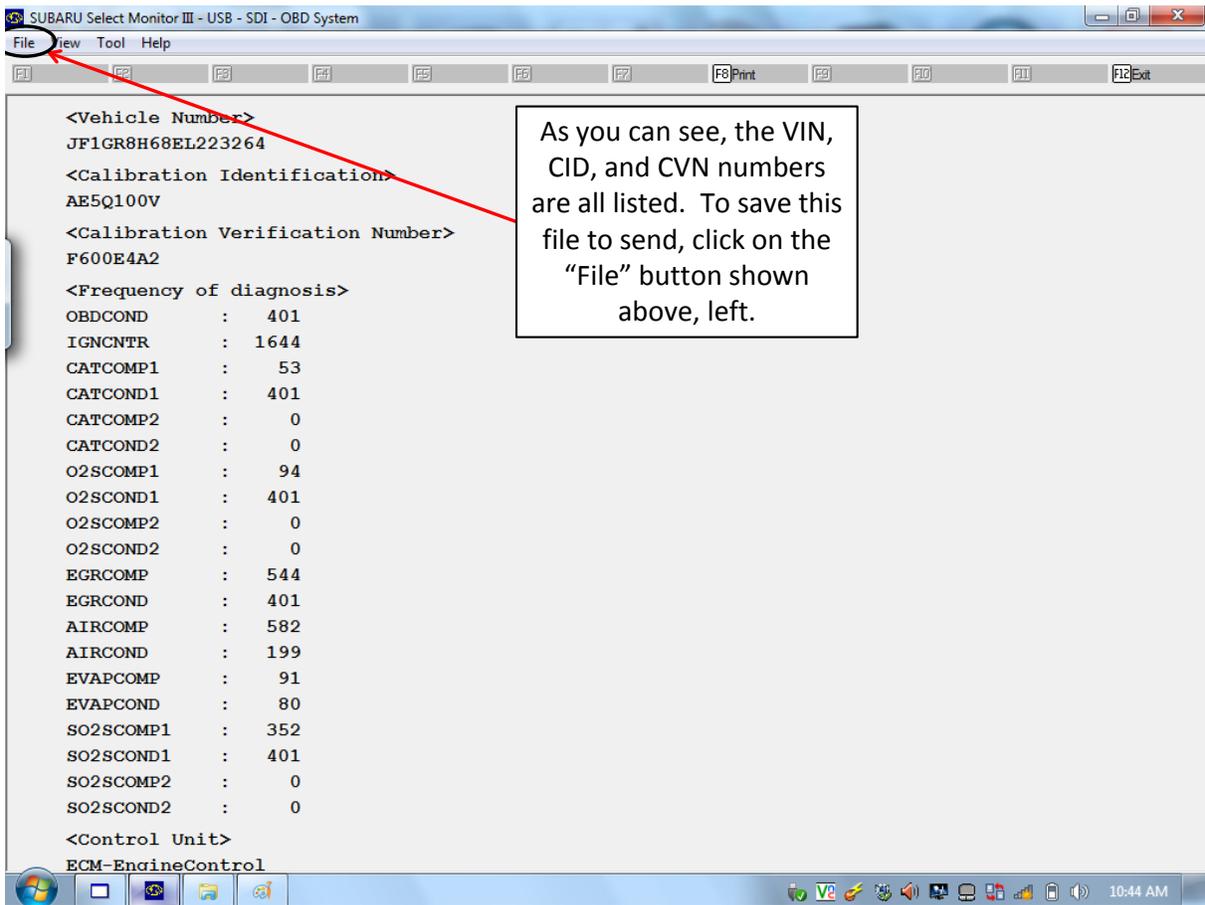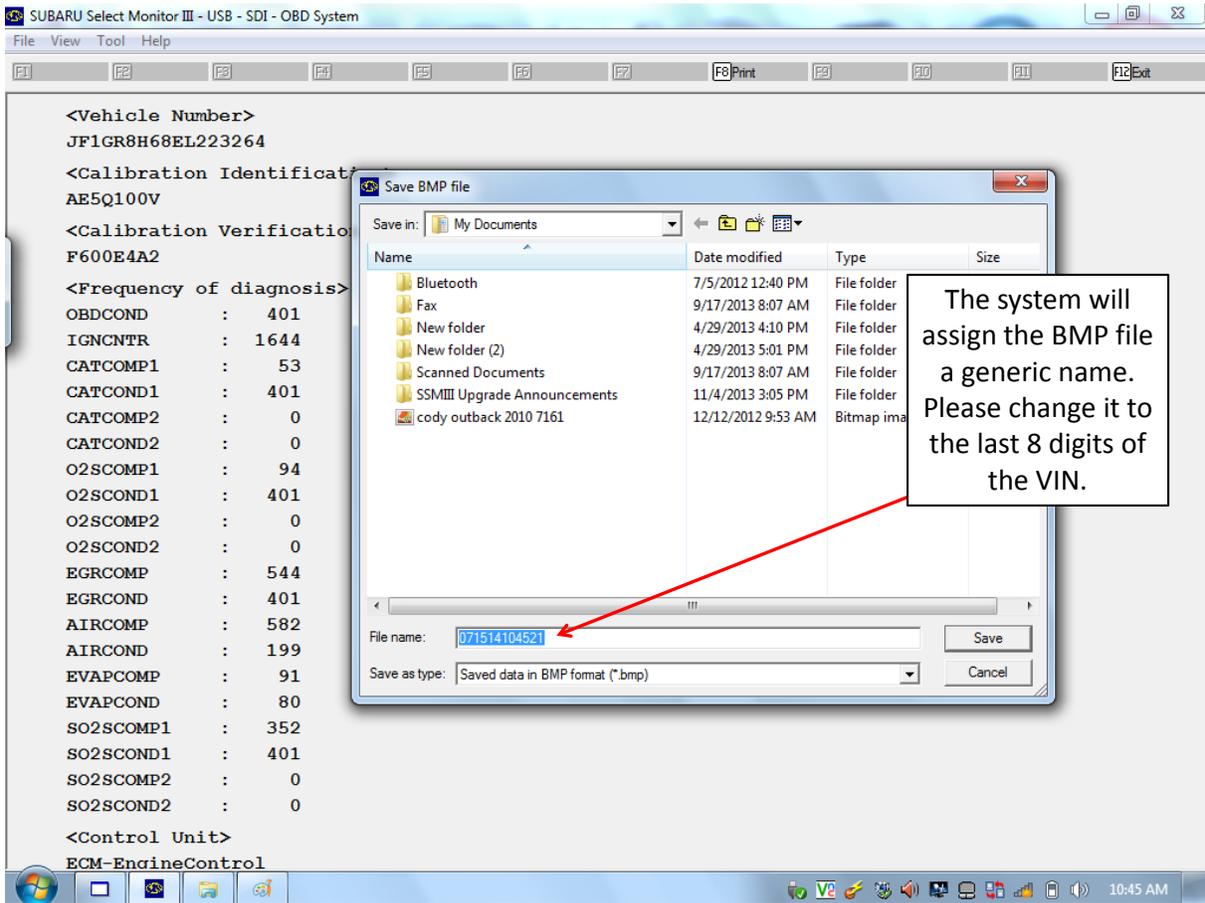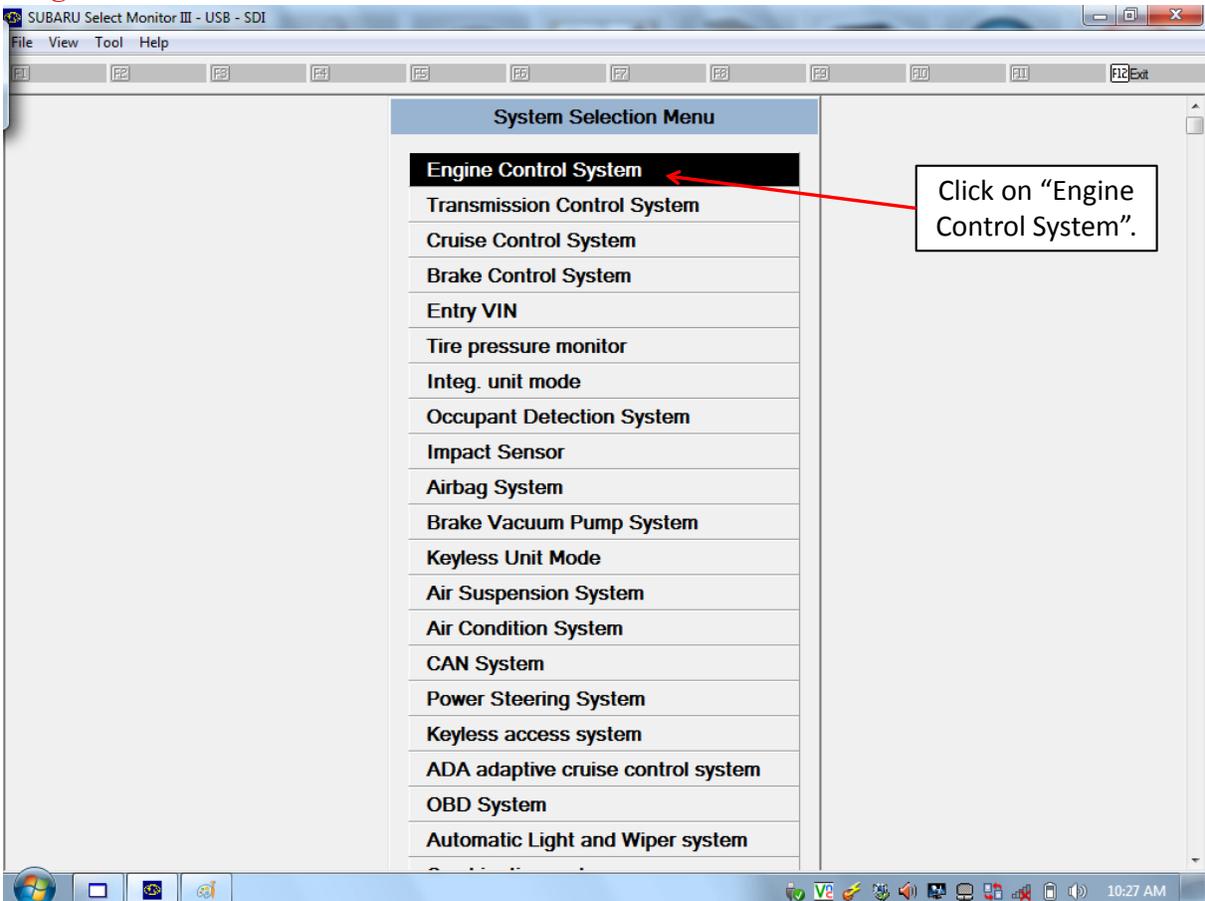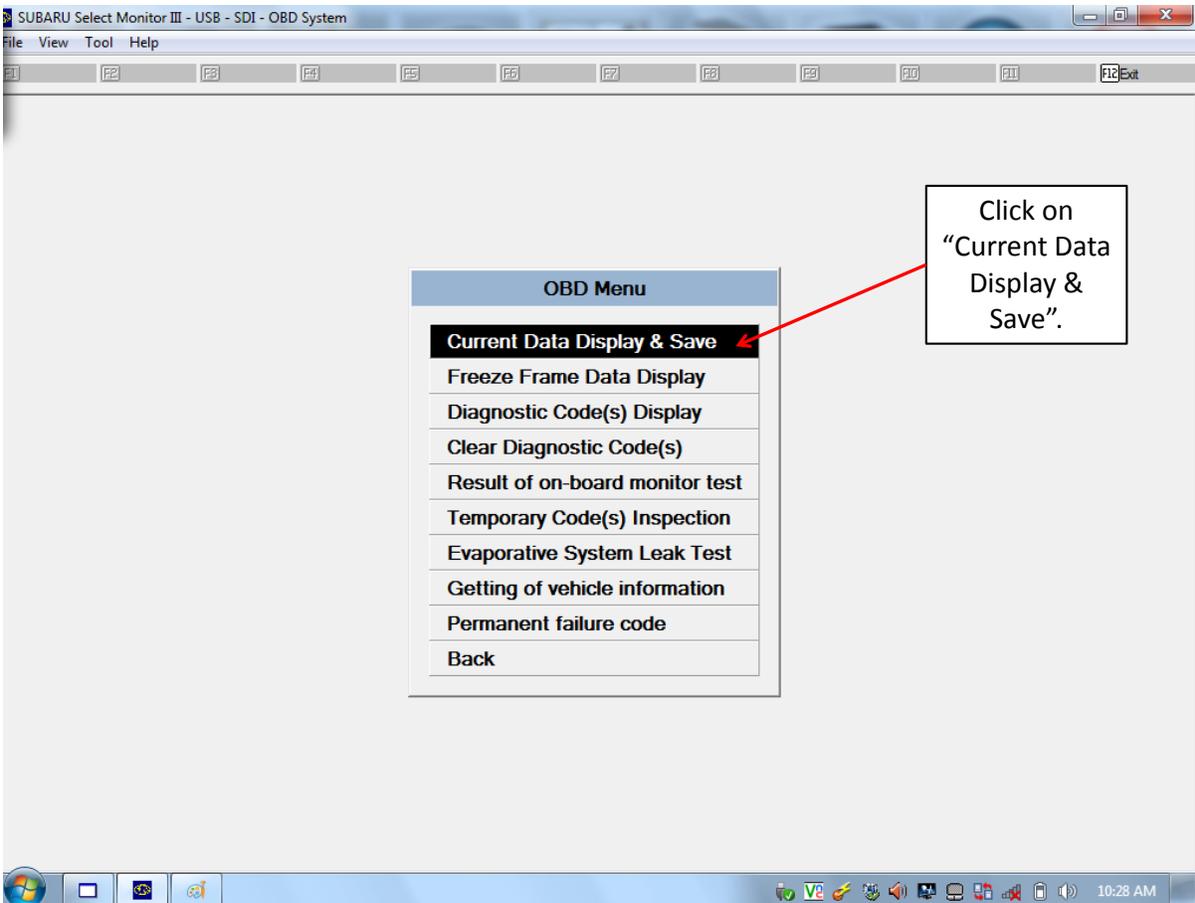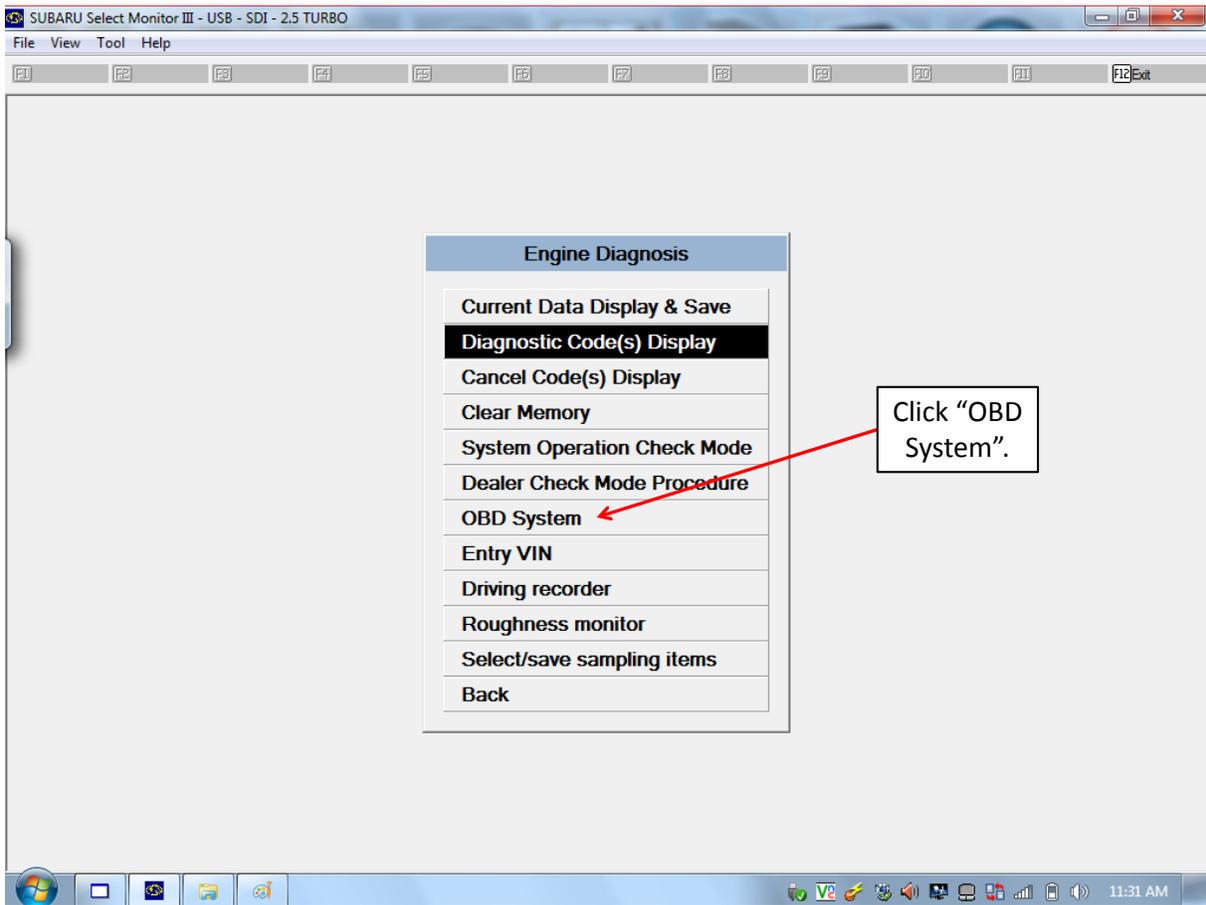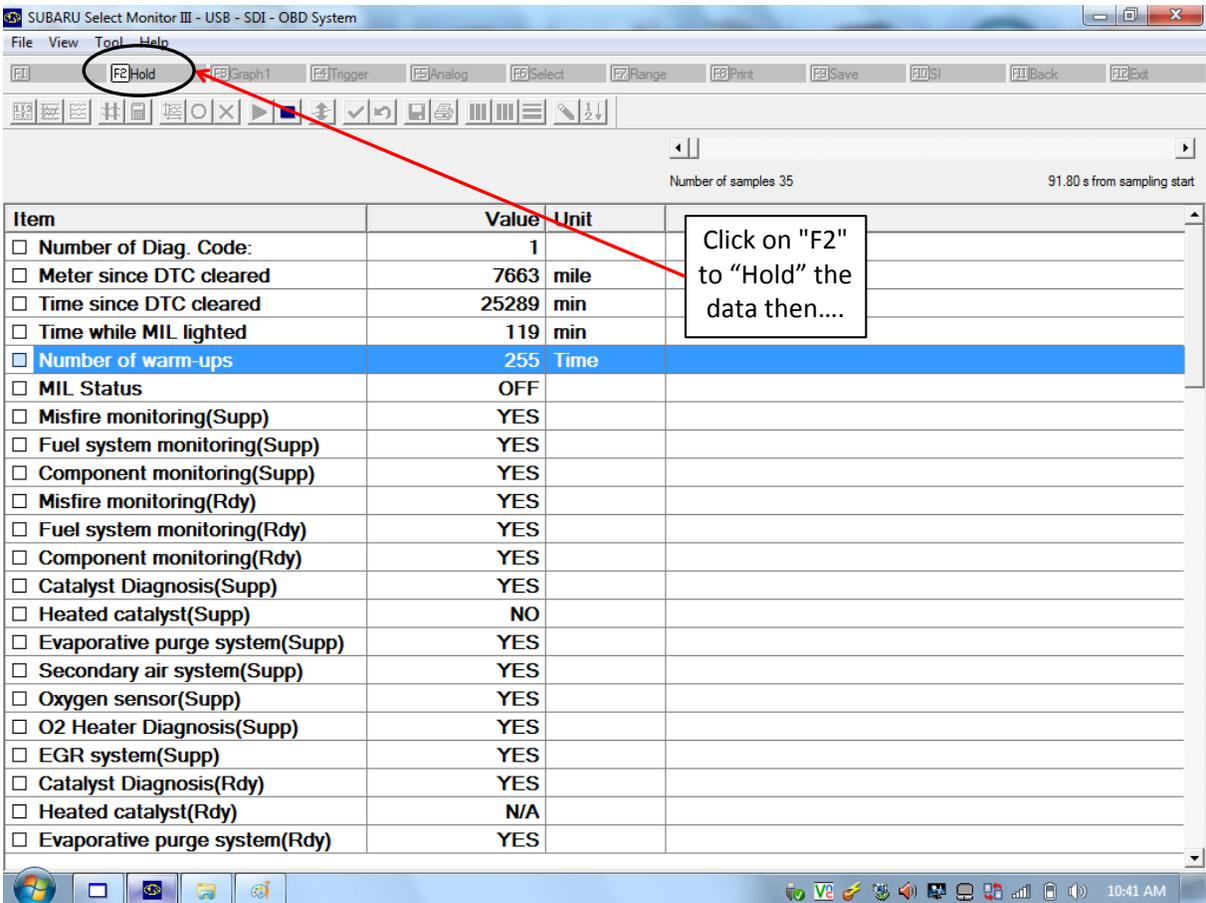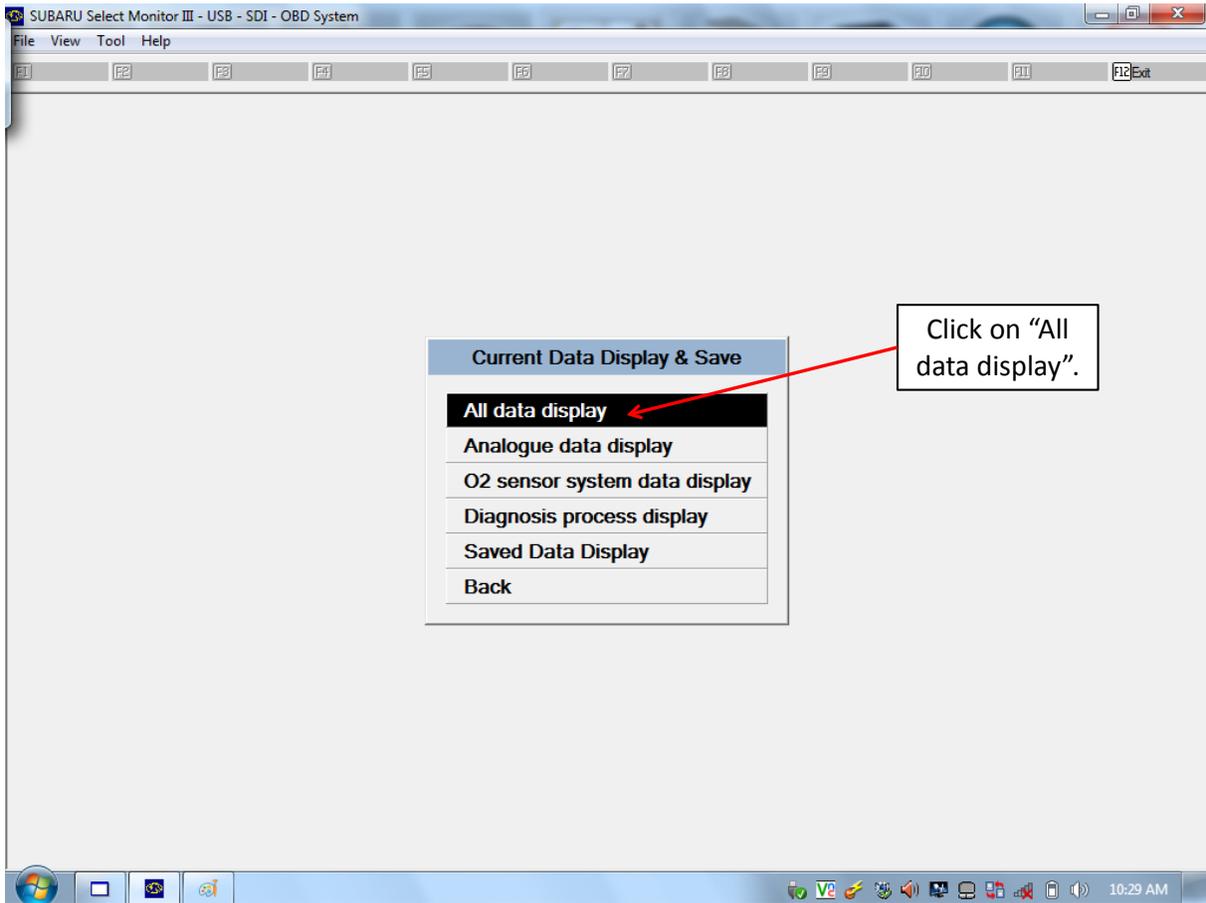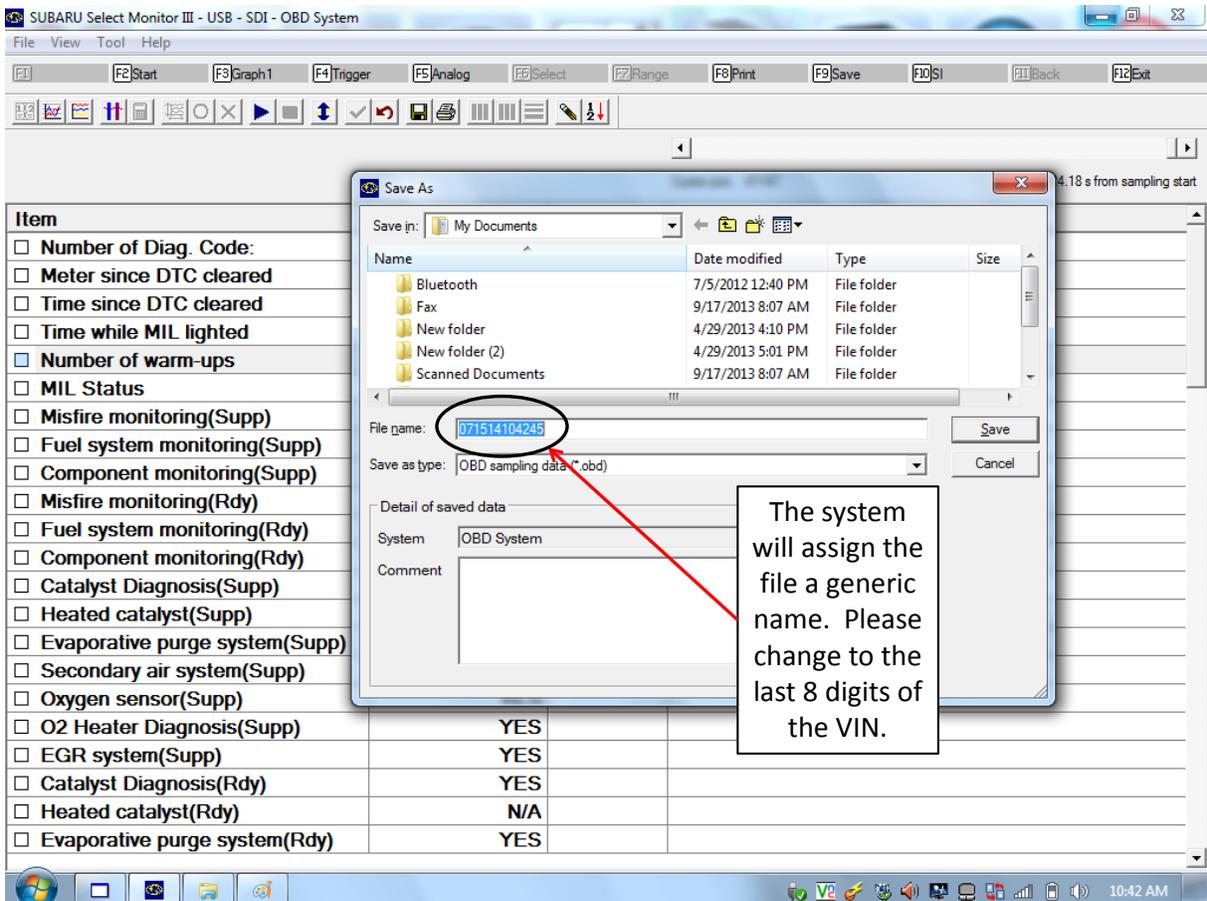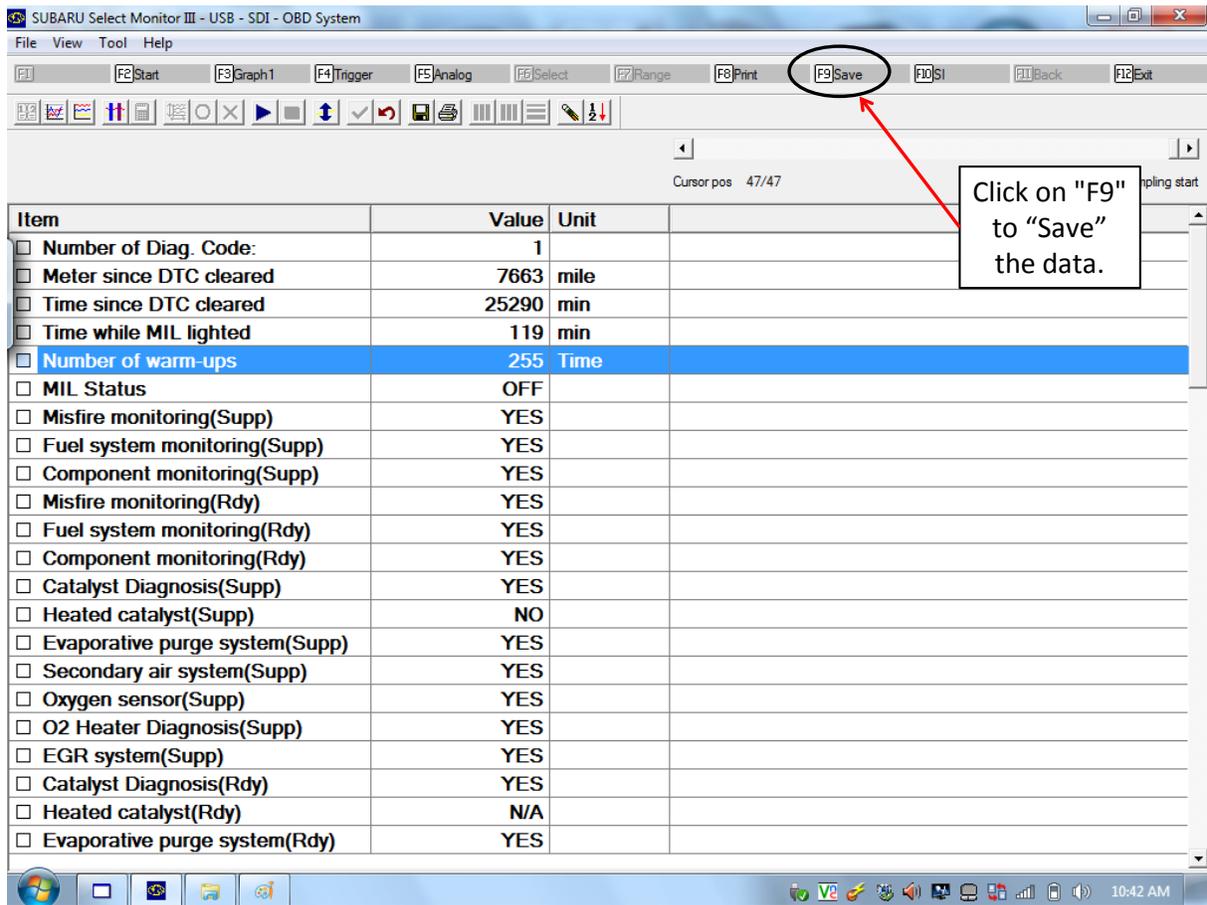
Code	Description & trouble position	
Memorized Diagnostic Code(s) Number of Diagnostic Code(s): 1		
P0117	Engine Coolant Temp. Sensor Circuit Low Input	

Save As

Save in: My Documents

Name	Date modified	Type	Size
Bluetooth	7/5/2012 12:40 PM	File folder	
Fax	9/17/2013 8:07 AM	File folder	
New folder	4/29/2013 4:10 PM	File folder	
New folder (2)	4/29/2013 5:01 PM	File folder	
Scanned Documents	9/17/2013 8:07 AM	File folder	

File name: EL233264

Save as type: Individual diagnostic code data (*.dtc)

Save   Cancel

Detail of saved data

System   Engine Control System

Comment

After selecting the location where you want to save the file, you should rename the file the last 8 digits of the VIN then click "Save".

11:33 AM

Continued...

Accessing and Saving Freeze Frame Data

Engine Diagnosis

- Current Data Display & Save
- Diagnostic Code(s) Display
- Cancel Code(s) Display
- Clear Memory
- System Operation Check Mode
- Dealer Check Mode Procedure
- OBD System
- Entry VIN
- Driving recorder
- Roughness monitor
- Select/save sampling items
- Back

Click on "OBD System".

OBD Menu

- Current Data Display & Save
- Freeze Frame Data Display
- Diagnostic Code(s) Display
- Clear Diagnostic Code(s)
- Result of on-board monitor test
- Temporary Code(s) Inspection
- Evaporative System Leak Test
- Getting of vehicle information
- Permanent failure code
- Back

Click on "Freeze Frame Data Display".

Continued...

Click on F9 above to save the Freeze Frame Data.

Item	Detect	Unit
Freeze frame data	P0117	
Fuel system for Bank 1	Op_init.	
Calculated load value	0.0	%
Coolant Temp.	246	°F
Short term fuel trim B1	0.0	%
Long term fuel trim B1	-3.9	%
Mani. Absolute Pressure	14.2	psig
Engine Speed	0	rpm
Vehicle Speed	29	MPH
Ignition timing adv. #1	20.0	°
Intake Air Temp.	118	°F
Mass Air Flow	0.9	g/s
Throttle Opening Angle	14	%
Secondary air system	Stop	
Oxygen sensor #12	0.855	V
Short term fuel trim #12	0.0	%
OBD System	OBD/OBD2	
Oxygen sensor #11	Supported	
Oxygen sensor #12	Supported	

The system will generate a file name but, you should rename the file the last 8 digits of the VIN.

Continued...

Now that the file is renamed, you must select where you want the file stored and then click "Save".

Locating CID / CVN Information

Click on "Engine Control System".

Engine Diagnosis

- Current Data Display & Save
- **Diagnostic Code(s) Display**
- Cancel Code(s) Display
- Clear Memory
- System Operation Check Mode
- Dealer Check Mode Procedure
- OBD System
- Entry VIN
- Driving recorder
- Roughness monitor
- Select/save sampling items
- Back

Click on "OBD System".

OBD Menu

- Current Data Display & Save
- Freeze Frame Data Display
- Diagnostic Code(s) Display
- Clear Diagnostic Code(s)
- Result of on-board monitor test
- Temporary Code(s) Inspection
- Evaporative System Leak Test
- **Getting of vehicle information**
- Permanent failure code
- Back

Click on "Getting of vehicle information".

Continued...

SUBARU Select Monitor III - USB - SDI - OBD System

File   View   Tool   Help

| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 Print | F9 | F10 | F11 | F12 Exit |

<Vehicle Number>
JF1GR8H68EL223264

<Calibration Identification>
AE5Q100V

<Calibration Verification Number>
F600E4A2

<Frequency of diagnosis>
OBDCOND   :   401
IGNCNTR   :   1644
CATCOMP1   :   53
CATCOND1   :   401
CATCOMP2   :   0
CATCOND2   :   0
O2SCOMP1   :   94
O2SCOND1   :   401
O2SCOMP2   :   0
O2SCOND2   :   0
EGRCOMP   :   544
EGRCOND   :   401
AIRCOMP   :   582
AIRCOND   :   199
EVAPCOMP   :   91
EVAPCOND   :   80
SO2SCOMP1   :   352
SO2SCOND1   :   401
SO2SCOMP2   :   0
SO2SCOND2   :   0

<Control Unit>
ECM-EngineControl

10:44 AM

As you can see, the VIN, CID, and CVN numbers are all listed. To save this file to send, click on the "File" button shown above, left.

SUBARU Select Monitor III - USB - SDI - OBD System

File   View   Tool   Help

Print...   Ctrl+P
Print preview
Setup printer...

Register/read user information

Converting sampling data to CSV

Save displayed data

Exit application

| F5 | F6 | F7 | F8 Print | F9 | F10 | F11 | F12 Exit |

on>

Number>

<Frequency of diagnosis>
OBDCOND   :   401
IGNCNTR   :   1644
CATCOMP1   :   53
CATCOND1   :   401
CATCOMP2   :   0
CATCOND2   :   0
O2SCOMP1   :   94
O2SCOND1   :   401
O2SCOMP2   :   0
O2SCOND2   :   0
EGRCOMP   :   544
EGRCOND   :   401
AIRCOMP   :   582
AIRCOND   :   199
EVAPCOMP   :   91
EVAPCOND   :   80
SO2SCOMP1   :   352
SO2SCOND1   :   401
SO2SCOMP2   :   0
SO2SCOND2   :   0

<Control Unit>
ECM-EngineControl

10:45 AM

Click on "Save displayed data"

Continued...

The system will assign the BMP file a generic name. Please change it to the last 8 digits of the VIN.

Saving OBD Data Files

Click on "Engine Control System".

Continued...

Engine Diagnosis

- Current Data Display & Save
- **Diagnostic Code(s) Display**
- Cancel Code(s) Display
- Clear Memory
- System Operation Check Mode
- Dealer Check Mode Procedure
- OBD System
- Entry VIN
- Driving recorder
- Roughness monitor
- Select/save sampling items
- Back

Click "OBD System".

OBD Menu

- **Current Data Display & Save**
- Freeze Frame Data Display
- Diagnostic Code(s) Display
- Clear Diagnostic Code(s)
- Result of on-board monitor test
- Temporary Code(s) Inspection
- Evaporative System Leak Test
- Getting of vehicle information
- Permanent failure code
- Back

Click on "Current Data Display & Save".

Continued...

File   View   Tool   Help

Current Data Display & Save

All data display

Analogue data display

O2 sensor system data display

Diagnosis process display

Saved Data Display

Back

Click on "All data display".

SUBARU Select Monitor III - USB - SDI - OBD System

File   View   Tool   Help

F1 F2 Hold F3 Graph1 F4 Trigger F5 Analog F6 Select F7 Range F8 Print F9 Save F10 SI F11 Back F12 Exit

Number of samples 35   91.80 s from sampling start

Click on "F2" to "Hold" the data then....

Item	Value	Unit
☐ Number of Diag. Code:	1	
☐ Meter since DTC cleared	7663	mile
☐ Time since DTC cleared	25289	min
☐ Time while MIL lighted	119	min
☐ Number of warm-ups	255	Time
☐ MIL Status	OFF	
☐ Misfire monitoring(Supp)	YES	
☐ Fuel system monitoring(Supp)	YES	
☐ Component monitoring(Supp)	YES	
☐ Misfire monitoring(Rdy)	YES	
☐ Fuel system monitoring(Rdy)	YES	
☐ Component monitoring(Rdy)	YES	
☐ Catalyst Diagnosis(Supp)	YES	
☐ Heated catalyst(Supp)	NO	
☐ Evaporative purge system(Supp)	YES	
☐ Secondary air system(Supp)	YES	
☐ Oxygen sensor(Supp)	YES	
☐ O2 Heater Diagnosis(Supp)	YES	
☐ EGR system(Supp)	YES	
☐ Catalyst Diagnosis(Rdy)	YES	
☐ Heated catalyst(Rdy)	N/A	
☐ Evaporative purge system(Rdy)	YES	

Continued...

Click on "F9" to "Save" the data.

The system will assign the file a generic name. Please change to the last 8 digits of the VIN.

Continued...

Make sure the file is saved where you want it to be then click "Save".

How To Send (or E-Mail) Saved Data Files

In order to send the file message, you must be logged in. Please log in.

Nuspire Support: (877) 782-7404

Version 1.21 build 1 (2/16/2014 10:50:22 PM)

Continued...

Click on the "Send Message" icon.

Your name will automatically show up in the "From" box. Please click the "To": drop down arrow then select who you want to send the information to.

Continued...

This open area is where you should state why you are sending the information. This is a required field and must be filled out in order to send the e-mail.

Click on the "Attach" button to include your downloads in the e-mail.

Continued...

Locate the file(s) you want to attach. Click on it then click "Open". You can attach and send more than one file at a time.

The three files selected are now attached. You can now click "Send".

Continued...

Your message has now been sent. If you could not fit all the items you wanted to send in one e-mail, simply repeat the process and send another e-mail.