

This service program replaces SP 284-055 dated 10.2014.

Date	Group	No.	Release	Page
4.2015	<b>284</b>	<b>055</b>	<b>02</b>	1(7)

OBD2013 Software Updates  
D11, D13, D16 OBD2013  
VAH, VHD, VN

## SP 284-055, OBD2013 Software Updates

(April 2015)

### Information

Software updates with enhancements are available for the engine control module (ECM) and aftertreatment control module (ACM) for VOLVO D11, D13 and D16 engines on OBD2013 vehicles built from February 4, 2013 to February 28, 2014. Software updates address the following.

- P207F / P20EE: DEF Dilution / NOX Conversion Efficiency
- P2463 (SPN3064) High Soot Load
- P0401 (SPN 2659 FMI 18) EGR Mass Flow Low
- P055B Calibration revisions to Piston Cooling Jet (PCJ) function
- SPN5394, FMI 14 Dosing Valve Clogged
- Variable Geometry Turbocharger (VGT) Vane Varnish in Cold Ambient

**Note:** Control modules are required to be programmed in the following order:

- ECM
- ACM

### Required Tools

Premium Tech Tool version 2.03.77 or higher  
Vocom Diagnostic Connector 88890304  
Communication Interface 88890300

**Note:** Using other interfaces may affect programming speed.

**Note:** Check Premium Tech Tool version by clicking on Help tab and then click on "About Tech Tool".

## Procedure



### **DANGER**

Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

- 1 Verify service program eligibility by checking service program status in VDA.
- 2 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral.
- 3 Connect Premium Tech Tool (PTT) to the vehicle diagnostics connector using the 16 pin OBD cable 88890304 and Communication Interface 88890300. Connect the PC to a functional LAN or modem connection and a 120 Volt AC source.
- 4 Turn the ignition switch "ON".
- 5 Log in to PTT and Identify Vehicle is displayed.

- 6 Once the vehicle has been identified, enter the Work Order Number information, then click Start Work.

Work Order Number

Enter a work order number or select a recently used work order number in the list.

Enter work order number:

Select a recently used work order:

Work Order No	User ID	Date
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Enter Notes:

Start Work Cancel

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- 7 From the Main Menu select Program and **then** Program Electronic Control Unit 1700-08-03-39. Then click Start.

Tech Tool

Tech Tool Links Help

Product Product History Diagnose Test Calibrate **Program** Impact

**Program**

Select an operation and click Start

- 1700-08-03-39 Program Electronic Control Unit
- 1700-22-03-03 Parameter, programming
- 1700-22-03-28 Accessory Kit
- 1700-22-03-12 Replace Electronic Control Unit
- 1700-22-03-13 Program with Stored Software
- 1700-08-03-40 Handle Component
- 2841-22-03-04 Create Engine Label
- 3810-22-03-10 Change Language

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8 Select Engine Control Module (ECM).

The screenshot shows the 'Tech Tool' application window. At the top, there is a navigation bar with 'Tech Tool', 'Links', and 'Help'. Below this is a menu bar with options: 'Product', 'Product History', 'Diagnose', 'Test', 'Calibrate', 'Program', and 'Impact'. The 'Program' menu is currently selected. The main area of the window displays the instruction 'Select an Electronic Control Unit' followed by a list of available units:

- Information display (MID 140)
- Vehicle ECU (MID 144)
- Radio (MID 206)
- Gear Selector ECU (MID 223)
- Aftertreatment Control Module (ACM)
- Engine Control Module (EMS)
- Transmission ECU (TECU)

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9 Select Program to update the ECM with the latest software.

## Programming options

- Update control unit with latest software
- Reload control unit with existing software

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10 Certain conditions must be met to continue with programming: battery voltage above 10v, parking brake applied, and ignition key in ON position with engine not running. When all conditions have been met, click Continue to proceed with programming.

1700-08-03-39 Program control unit - Update software			
1	> 10 V	12.7 V	
2			
3	On  = 0 rpm	On 0 rpm	

Automatically checked conditions

- 1 Battery voltage above 10 V
- 2 Parking brake applied
- 3 Ignition key in ON position. Engine not running

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11 Select "I accept" to agree to the terms and press continue to proceed.

**Note:** In the United States and Canada, the programing is NOT chargeable. An invoice will not be generated.

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**1700-08-03-39 Program control unit - Update software**

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The following control units will be programmed

**Engine Control Module (EMS)**

**Chargeable programming**

The software you are about to program is chargeable. If programming is performed using the software, an invoice will be generated. Programming will be charged once even if multiple retries are needed.

The software has commercial part number

**85136079** : Engine Control Module

The number can be used for price lookup in your local system and will be specified on the invoice.

I accept

Select I accept to agree to the terms Press Continue to proceed

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12 When programming is complete, click Exit to return to Main Menu to program the ACM.

13 When all programing is complete, clear any diagnostic trouble codes (DTC) and Finish Work.

**Reimbursement**

<b>This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.</b>	<b>UCHP Reimbursement</b>	<b>eWarranty Reimbursement</b>
<b>Claim Type (used only when uploading from the Dealer Bus. Sys.)</b>	B	B
<b>Recall Status</b>		
Vehicle inspected, repair not required		1- Inspected OK
Vehicle repaired per instruction		2- Modified per instruction
<b>Labor Code</b>		
Primary Labor Code	2841-22-09-04 0.4 hrs	28448-0-01 0.4 hrs.
Time to take charge and determine campaign status	1700-16-01-01 0.3 hrs	17003-0-01 0.3 hrs
<b>Causal Part</b>	3092091	3092091
<b>Parts Disposition</b>	N/A	N/A
<b>SCC Code</b>	S6681	N/A
<b>Authorization Number</b>	N/A	SP284-055
<b>Expiration Date</b>	30-June-2015	30-June-2015

**Note:** Take Charge Time is not included in the Labor Code for this operation. Take charge may be eligible but can only be used once per repair visit. If vehicle is having other warranty repairs performed, take charge should be charged to the warranty repair, otherwise take charge can be charged to this service program.