

SERVICE CENTER INFORMATION

SCI19-01

PREVOS

DATE :	January 2019	SECTION: 00 GENERAL
SUBJECT :	MCM MODULE P/ PROCEDURE FO CONVERSION KI	N 23499009 BENCH PROGRAMMING R THE ELECTRIC FAN DRIVE T

First Release

01-12-19

DESCRIPTION

The intent of this procedure is to guide you through the steps required to program a MCM especially for the control of the electric fan drive as required for conversion kit of instruction sheets IS-19900 & IS-19910.

BEFORE PROGRAMMING	AFTER PROGRAMMING
MCM (non-programmed)	MCM programmed
part #23499009	part #23499009_EFD

MATERIAL NEEDED

Part No.	Description	Qty
23499009	MCM (non-programmed)	1
7770985	DECAL	1

SPECIAL TOOLS AND OTHER EQUIPMENT NEEDED

- 1. A laptop with the following software installed: MAIDCOM.
- 2. A network access
- 3. Interface harness (make this harness as per the diagram found in the instruction)
- 4. Special Prevost cable #066009
- 5. 24V-3A Power supply
- 6. Electric fan control program: body software FB0610011801

BUILD THE INTERFACE HARNESS

1. Build the interface harness as per the following diagram.





24V-3A POWER SUPPLY HARNESS ADAPTATION

2. The power supply connector is of positive polarity. Center is positive.





- 3. Cut the power supply output harness standard connector. Fit a connector #561690 with 2x socket terminal #561578.
 - Negative wire to terminal pin A
 - Positive wire to terminal pin B.



INSTALLING MAIDCOM

4. Install Maidcom on your computer. Get Maidcom on Volvo network using the link below:

https://secure.volvo.com/VBCRemote/files_Applications/MAIDCOM%20Plugin%20for%20TechTool%20version%202.04%20and%20up/Setup.Maidcom2_7_5591_Standalone.zip

5. You will end up here. Type your username and current password.

VOLVO			Operated by: VOLVO IT
	Welcome to Vol	vo Network	
	https://secure.volvo.com/VBC 20Plugin%20for%20TechTool 20up/Setup.Maidcom2_7_559	Remote/files_Applications/MAIDCOM% %20version%202.04%20and% 1_Standalone.zip	
	ub60392	Password	
	Authentication type:	Login Static Password Login DigiPass Login	

6. This dialog box will show. Select "Open".

Internet Explorer	×
What do you want to do with Setup.Maidcom2_7_5591_Standalone.zip? Size: 319 KB From: secure.volvo.com	
Open The file won't be saved automatically.	
 Save Save as 	
	Cancel

7. A window similar to the one below will show. Double-click on the file to run the Setup Wizard and perform the installation steps.





8. Maidcom now installed on your computer.



9. Make a new icon in your taskbar so you can start Maidcom from the taskbar. To do so, in the *Start Menu*, right-click on M2 Maidcom2 and then select *Pin to Taskbar*.

NEW INTERNET EXPLORER LINK ON YOUR COMPUTER

🧧 Internet Explorer

Important note for computers equipped with <u>Windows 10</u>. Make sure that Internet Explorer is installed on your computer and that you use it to create the link and to connect with the MCM module.



Edge fails to connect with the MCM module. Don't use Edge for this procedure.

10. You need to create one shortcut (Internet Explorer link) on your desktop as seen on the image below.



11. Create the link with the following addresses:

Name: Volvo Bus Local Host

http://localhost:49555/

GET BODY SOFTWARE AND SAVE ON YOUR COMPUTER

12. Get the MCM program for **US10 to GHG17** (*body software FB06100118F01*) on the Service Tips portal using the link below and <u>save it on your computer</u>.

http://teamplace.volvo.com/sites/vbc-scr-dtr-service/Service tips/Electric Fan drive service kit/Body Software

Service Service tips Body Software All Documents -
All usefull documents or comments made by the service managers

Home	Documents a	nd Lis	sts	Create	Site Settings	Help	
Sites			Туре	e			
Docume	nts		Data	abase			
Service ti	ps		Soft	ware version	n E01 for US07		
Warranty			<u>Soft</u>	ware Versio	n F01 for US10 to	GHG17	
DQT		(B)	A998	89 EFD 0610	0118E01		
Prevost L	iaison	P	Bend	ch Program	MCM for EFD serv	vice kit	
Branch C	ommunication						
TRS Proc	ess	1	023	43 AAA LID			
Informati	on	W	<u>H-37</u>	761 CBL EFD	2		
GLI Refur	bish Project	Provide the second s	Tem	porary test	EFD software F01	on GHG1	7

13. Click on FB06100118F01 and then save it on your computer at an appropriate location. You can save file to your Desktop, which can give you quick access to it.

Site Actions 👻 🔂 Violir	n Help & Support Training Browse	Library Tools Documents Library				liberte		
Service + Ser All usefull documents a	vice tips > Software Version F0 ents or comments made by the service man and Lists Create Site Settings	1 for US10 to GHG magers Help	17 → All Documents -			ی I Like It	Tags & Notes	^
Sites Documents Service tips Warranty DQT Prevost Liaison	☐ Type ☐ <u>FB_05100118F01</u>	Name 1/4/2019 3:32	Modified 2 PM 1/4/2019 3:32 PM	Created	Subject	Т	ïtle	
Branch Communication TRS Process Information GLI Refurbish Project	Do you want to open or save FB_061001	1 8F01 (584 KB) from teamp	place.volvo.com?	Open Save V	Save Save as Save and open			

CONNECTIONS

- 14. Connect your interface harness to the non-programmed MCM.
- 15. Connect harness #066009 to the COM serial port of your computer.



16. Connect the other end of harness #066009 to the DB9 connector on the interface harness.

17. Connect the 24V power supply to the appropriate connector on the interface harness.

START MAIDCOM

18. Click the Maidcom icon to start it.



Maicom will try to connect with the MCM module.



There is a good chance that the first connection trial fails.

0 N W M	1aidcom2 v eb Server Port asterID <mark>: NOT</mark>	v 2.7.5591. t: 49555 Connected	23449	4 X
SAP E	P 212 8 .	en 🛃 🚎	2 ÷	- 14

If this is the case, in the taskbar, right-click the Maidcom icon and then select Auto-Detect.





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CONNECTING WITH THE MCM WEB PAGE

19. Connect with the MCM web page using the Volvo Bus Local Host link previously made.

Volvo Bus Local Host 49555	
20.	
Make sure to use Internet Explorer	-
Use the following user name & password:	
User name: USER1	

Password:

fqYos

Volvo Bus On-board WEB-Server VOLVO BOOTLOADER x Windows Security The server localhost is asking for your user name and password. The server reports that it is from MasterID. Download Software 5-P01 Package 69 Warning: Your user name and password will be sent using basic Start System Software authentication on a connection that isn't secure. P02 User name 2 Password 0A00 Remember my credentials 94-P02 9667 OK Cancel 50-P02-8**B**01

20. Once connected, select Download Software Package.

VOLVO		Volvo Bus On-board WEB-Serve BOOTLOADE
Devenland Coffware Declares	MasterID,	MID 210:
Download Software Package	Hardware PN	23317344-P01
	Hardware SN	07745729
	Bootloader PN	23317370-P01
	Manufacturer data	
	Softw	vare:
	Vehicle ID	
	System software	NOT FOUND

- 21. Click on *Browse* and search for the Body Software <u>saved on your computer</u> (see 1 on image below).
- 22. Select the Body Software FB0610011801 (see 2 on image below).
- 23. Click on Download (see 3 on image below).



Select the software package you want to download.

37%
C:\Users\ub60052\Desk Browse
Download
24. Click on <i>Start System Software</i> and then wait

Code 100: Download OK

Download Software Package	MasterID, MID 210:				
Download Software Package	Hardware PN	23317344-P01			
Start System Software	Hardware SN	07745729			
	Bootloader PN	23317370-P01			
	Manufacturer data				
	Software:				
Download Software Package Start System Software	Vehicle ID	00000000A00			
	System software	SS-23369980-P01			
	Common Pages	CP-7036 <u>9667</u>			
	CECM-B, MID 188 SSW	BS-23370350-P01-06100118D01			
	B-Bus Application	BA_000000000000000			
	B-Bus Parameters	PB_0000000A00			

25. The following window is normal,wait



26. The following window is normalwait until the window closes.

503 Service Unavailable

Programming BBUS application to ECU 36(1 of 2)

Volvo Bus On-board WEB-Server

CONFIRM THAT THE MCM WAS PROGRAMMED SUCCESSFULLY

27. Confirm that the MCM was programed successfully. Select Vehicle Information.

VOLVO							
Chassis : 06100118F01 PREVOS 2018-12-21/07:36:04	MasterID,	MasterID, MID 210:					
+ Language (English)	Hardware PN	23317344-P01					
Vehicle information	Hardware SN	07823582					
+ Failt log	Bootloader PN	23317370-P01					
+ MID view	Manufacturer data						
+ Operation view	Softv	Software:					
+ Parameters	Vehicle ID	0000000A00					
+ Programming	System software	SS-23369980-P01					
+ Help	Common Pages	CP-70369667					
+ Exit	CECM-B, MID 188 SSW	BS-23370350-P01- 06100118F01					
	B-Bus Application	BA_0000000A00					
	B-Bus Parameters	PB_0000000A00					

28. Select Body ECU Info.



Success

GOOD. FIELDS ARE POPULATED

	http://localhost:49555/ - VOLVO MULTIPL	EX - Internet Explorer							- 0	×
	VOLVO							Volvo Bus	On-board WE	B-Server
Bo	dy ECU infa	Body ECU info								
Chassis : 06100118F01 PRE 2018-12-21/07:36: + Language (English)	nassis : 06100118F01 PREVOS 2018-12-21/07:36:04 Language (English)	BBUS state:N(N	I)			Body ECU infe	0			
r	Master ID information	ECU address	ECU name	Location	HIM part number	HIA coriol number	PBL port number	SSIM part number	ECU type	State
	Body ECU info	36	A36		23317363	7823582	23498985	23370350	CECM	1
	Body component list	41	A41	1			error			
+ + +	Fault log MID view Operation view						Lø			

<u>Fail</u>

ERROR. ALL FIELD VALUES ARE "0"

VOLVO MULTIPLEX - Internet Explorer				And in case of the last of					5 ×
VOLVO Volvo Bu						s On-board WEB-Serve			
Chassis 06100118D01 PREVO: 2018-11-28/11:51:46 + Language (English)	DRUG state V(~ .			Body ECU info				
+ Vehicle information	ECU address	ECU name	Location	HW part number	HW serial number	PBL part number	SSW part number	ECU type	State
+ MID view	36	A36	200010	0	0	0	0	CECM	1
+ Operation view	41	A41	1			error	là.		
Function diagram view Parameters Programming									

In case of failure, you can try to program the MCM once again but first, shut down your computer and restart. Doing so gives good results.

29. Exit Maidcom. To do so, right-click on the icon and then select Disconnect.



DECAL

30. Identify the now programed MCM. Programed MCM for the Electric Fan Drive conversion kit is part number **23499009_EFD**. Affix decal #7770985 on the programed MCM. To avoid any confusion, hide the MCM previous part number 23499009 with the decal.

