PREVOST

FRONT HATCH UPGRADE

MATERIAL

Order the following parts:

Part No.	Description	Qty
23432346	Hatch	1
21457828	Emblem, Volvo	1
23596088	Bracket, fog lamp	2
22022387	Light moulding, RHS Front LED	1
22022428	Light moulding, LHS Front LED	1
21929094	Strip, Leday Flex I	2
23519856	Wiring Harness Module, Day Running Light	1
8397409	Housing, 3,06*RS*3*SB	1
8397441	Cable Terminal, Delphi M W/P Sealed Tang	3
970772	Cable Seal	4
970778	Terminal	1
970772	Cable Seal, 1.2-2.1	1
21244697	Relay, ISO Mini NO/NC	1
977184	Housing	1
970745	Terminal, 0.8 6.3 0.5-1	4
21331452	Terminal	1
970588	Electric Cable, 1	1*11050
970596	Electric Cable, 1	1*13000
970591	Electric Cable, 1	1*10000
969510	Six Point Socket Screw	56

NOTE
Material can be obtained through regular channels.

PROCEDURE

> ⚠ **DANGER**
>
> Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

1. Turn OFF the vehicle. 1. Remove the key. 2. Wait at least 20 seconds. 3. Turn OFF the main switch. 4. Turn OFF the batteries switch. 5. Disconnect the negative terminal from the consumer batteries.	 **FIGURE 1**
2. Open the front hatch.	 **FIGURE 2**
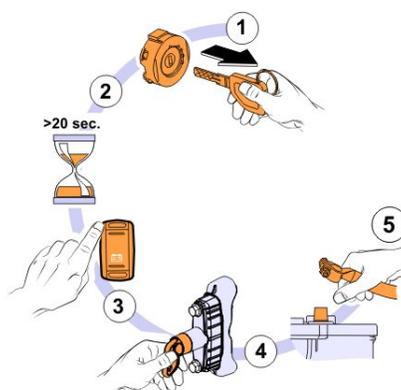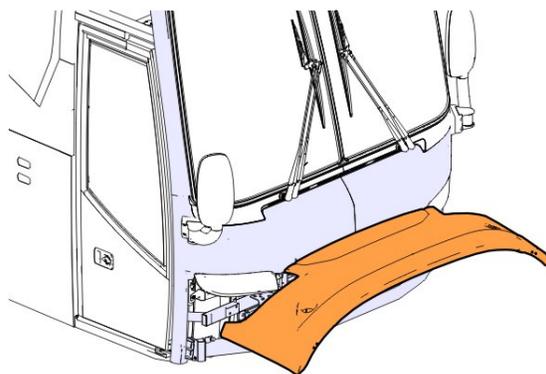
| 3. Remove the screws that hold the hatch. |
FIGURE 3 |
|---|---|
| 4. Remove the front hatch.
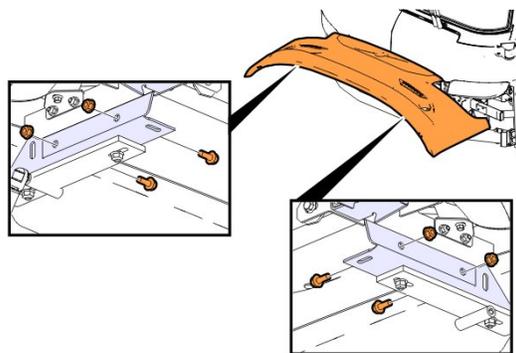
NOTE
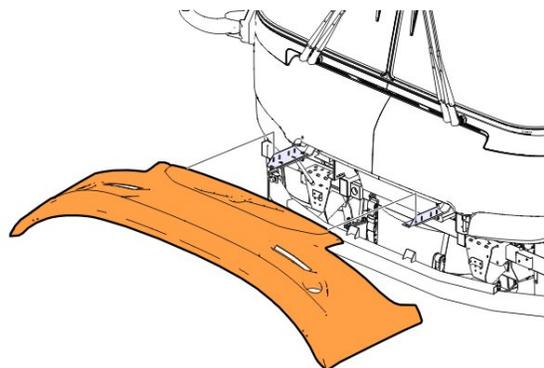
Two people are needed to perform this procedure. |
FIGURE 4 |
| 5. Remove the brackets that hold the fog lamps |
FIGURE 5 |
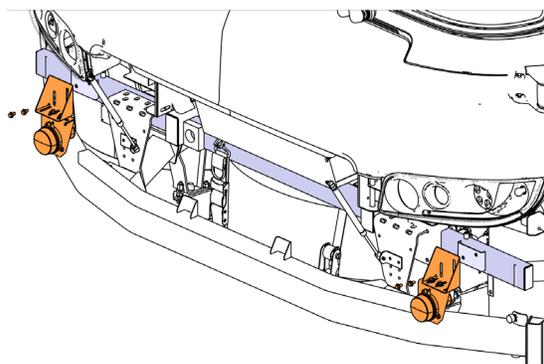
6. Remove the gas spring brackets and install it in the protection brackets lowest position.	 **FIGURE 6**
7. Remove the fog lamps from the brackets.	 **FIGURE 7**
8. Fit the new front hatch, place the nuts and do not tighten the nuts until the front hatch is adjusted. *NOTE* *Two people are needed to perform this procedure.*	 **FIGURE 8**
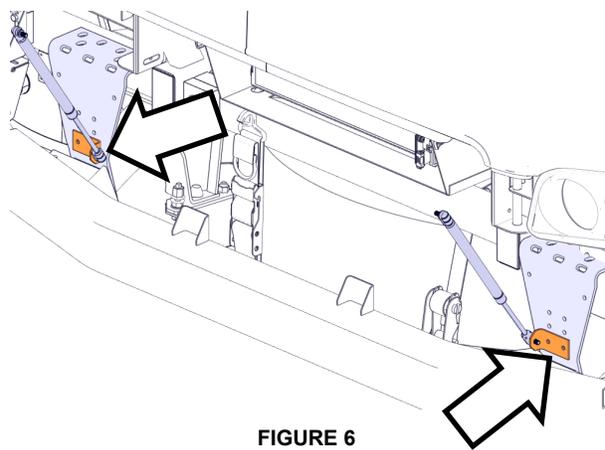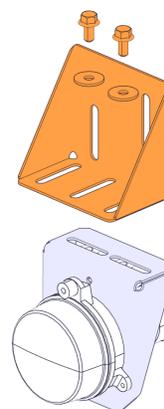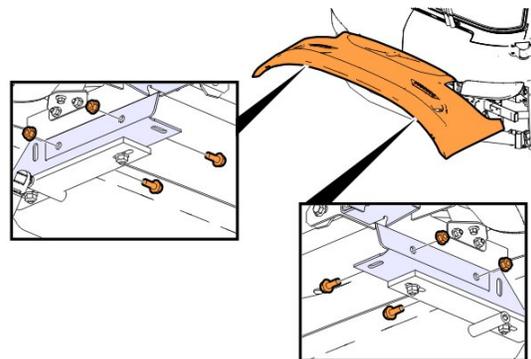
9. Set the horizontal and vertical position of the hatch.	 **FIGURE 9**
10. Close the hatch and check that the gap is uniform around the hatch.	 **FIGURE 10**
11. Align the facing of the hatch with the front panel. Close the hatch and check that the hatch is aligned. *NOTE* *Tighten the screws once the adjustment is achieved.* ***Torque: 24 ± 4 Nm.***	 **FIGURE 11**
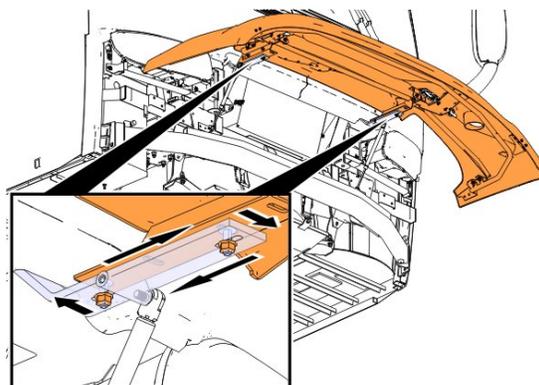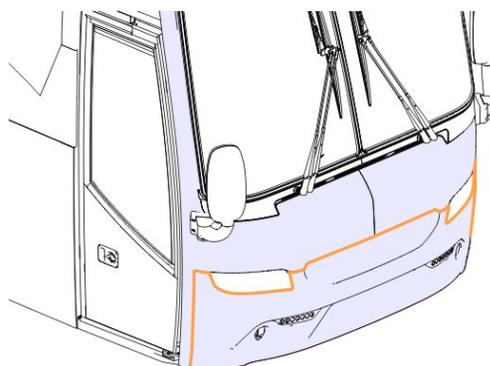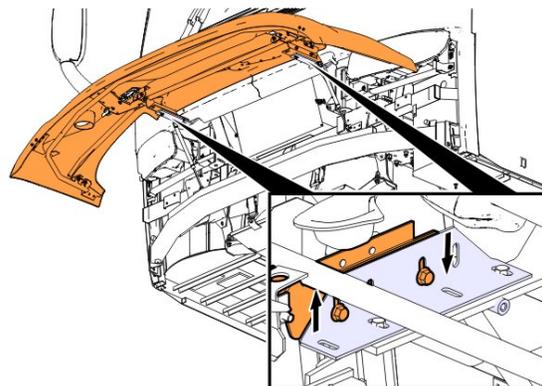
12. Assembly the led strips on the brackets.	**FIGURE 12**
13. Install the led strips assemblies.	**FIGURE 13**
14. Adjust the led strips assemblies. Tighten the nuts. *NOTE* ***Torque: 10 ± 1.5 Nm.***	**FIGURE 14**
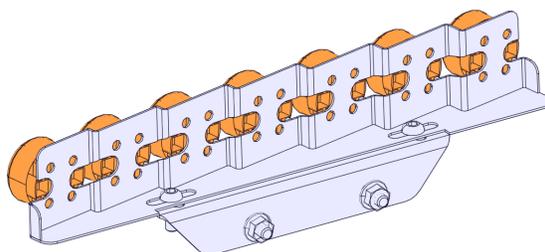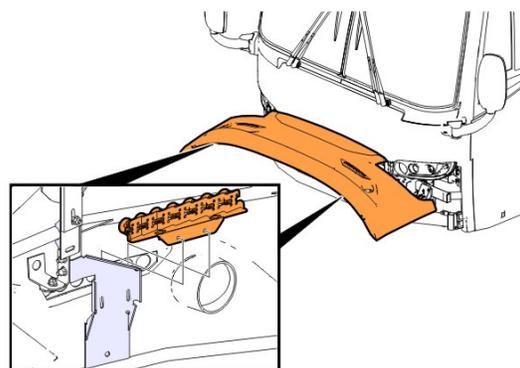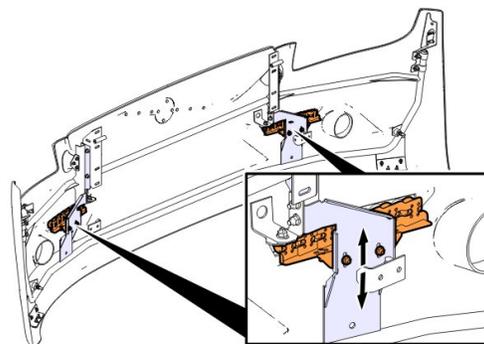
15. Install the fog lamps on the new bracket (PN 23596088)

NOTE
Torque: 24 ± 4 Nm.
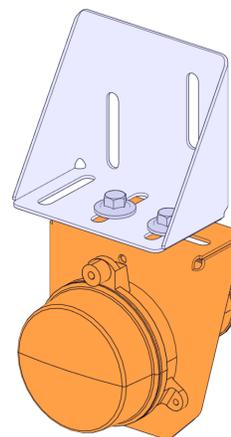
FIGURE 15

16. Install the fog lamps assemblies.
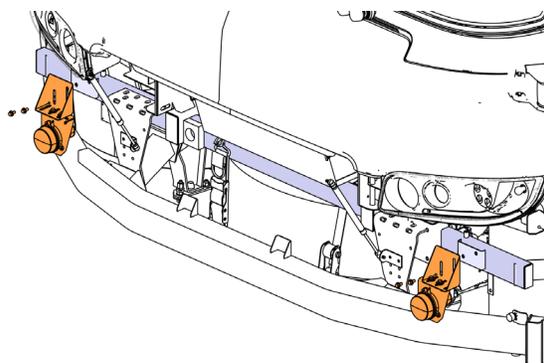
FIGURE 16

17. Close the hatch and align the fog lamps assemblies.

    When the assemblies are aligned, tighten the screws.

NOTE
Torque: 24 ± 4 Nm.
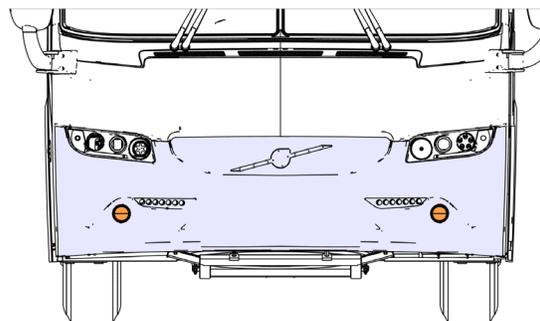
FIGURE 17

18. Connect the harness (PN 23519856) according to the drawing.
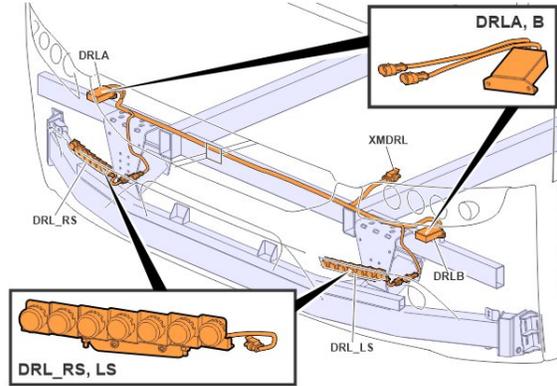
FIGURE 18

19. Hold the cables harness with cable ties.
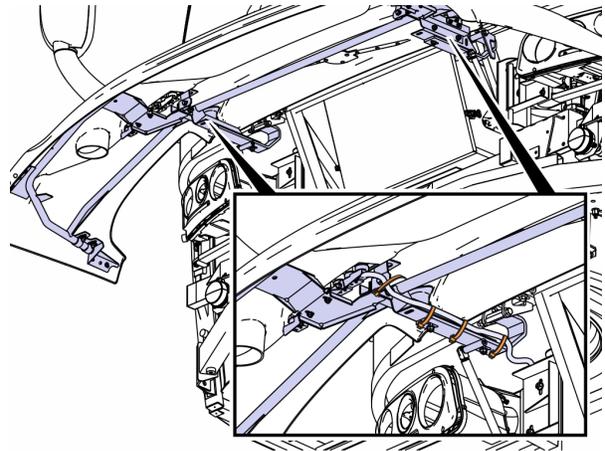
FIGURE 19

20. Assembly the following extension.

CABLES INFORMATION				
	Color	Length (mm)	From	To
A	W	4500	XMDR:1	GND
B	W	8500	XMDR:1	K07:4
C	Y	10000	XMDR:2	XBA011:4
D	BN	8500	XMDR:3	K07:3
E	BN	50	K07:1	K07:2
F	BN	2500	K07:1	A348.CON/J1:1
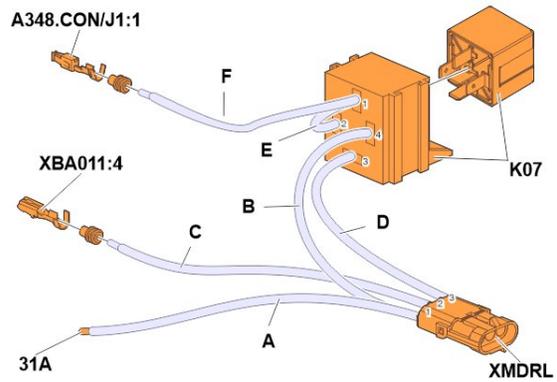
FIGURE 20

21. Connect and fix the extension according to the drawing.	 **FIGURE 21**
22. Install the emblem in the front hatch low relief. *NOTE* *Add glue between emblem fixing point and the hatch*	 **FIGURE 22**
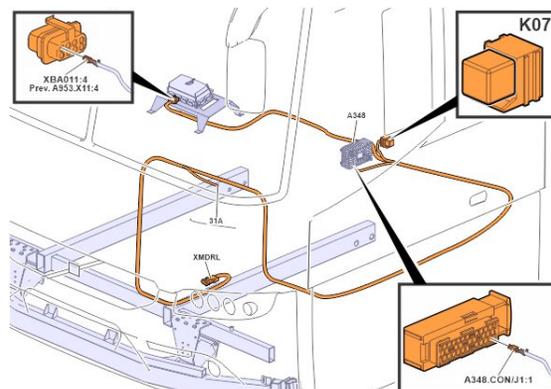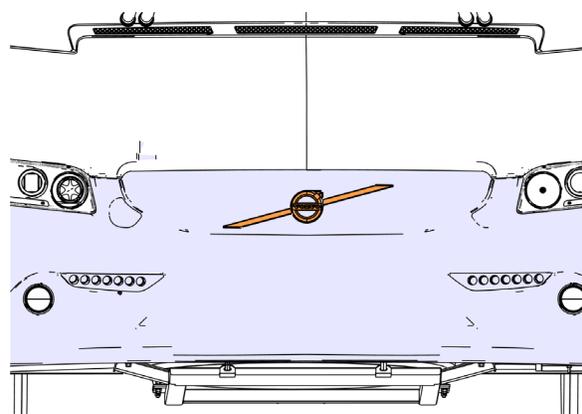
23. Turn ON the vehicle.
    1. Connect the negative terminal.
    2. Turn ON the batteries switch.
    3. Turn ON the main switch.
    4. Wait at least 20 seconds.
    5. Insert the key and turn on the vehicle.
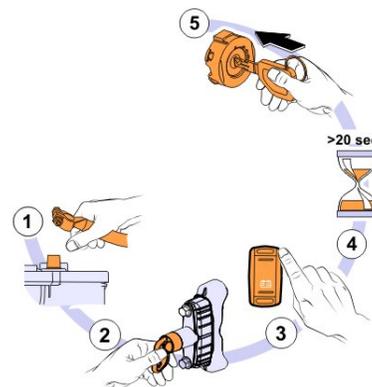	
	FIGURE 23

Software Update

24. Connect the diagnostic PC
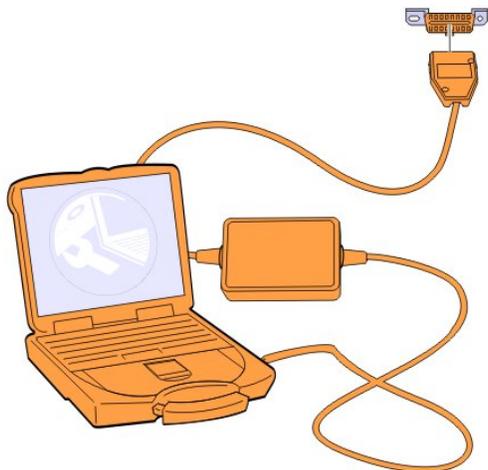
25. Turn on the ignition.
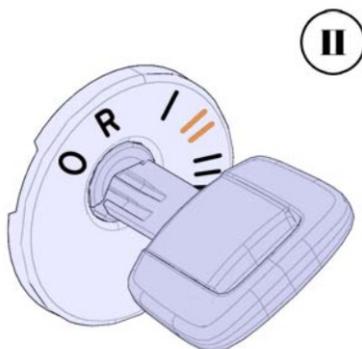
26. Identify the chassis number.

27. Create an ARGUS request to update the chassis in Software Configurator.

The ARGUS request will contain the following data:

- Costumer

- Chassis type

- Chassis No (List if there are several chassis)

- Comments: Update the following Part Numbers from Software Configurator

Part Number	Action	Description	Field Number
23490527	ADD	Software Function, Day Running Light	611

23492827	REPLACE	I/O Configuration File, I/O Config A48	676

28. Launch the Tech Tool software and open Maidcom tab

29. Use Maidcom to download the software package update from the VBC remote.

-Download the SW package, last updated.

-Save the file on the PC.

-Add the user and password to start the download:

User: user1

Password: fqYos

-Start the download through Maidcom.

-Restart the system.

VOLVO
Volvo Bus On-board WEB-Server
BOOTLOADER

Code 100: Download OK

Download Software Package
Start System Software

MasterID, MID 210:

Hardware PN	23317344-P01
Hardware SN	08101660
Bootloader PN	23317370-P01
Manufacturer data	

Software:

Vehicle ID	B13R_192824
System software	SS-23369980-P01
Common Pages	CP-70369667
CECM-B, MID 188 SSW	BS-23370350-P01-B13R_192824
B-Bus Application	BA_B13R_192824
B-Bus Parameters	PB_B13R_192824

-Updated software.

VOLVO
Volvo Bus On-board WEB-Server
BOOTLOADER

Code 100: Download OK

Download Software Package
Start System Software

MasterID, MID 210:

Hardware PN	23317344-P01
Hardware SN	08101660
Bootloader PN	23317370-P01
Manufacturer data	

Software:

Vehicle ID	B13R_192824
System software	SS-23369980-P01
Common Pages	CP-70369667
CECM-B, MID 188 SSW	BS-23370350-P01-B13R_192824
B-Bus Application	BA_B13R_192824
B-Bus Parameters	PB_B13R_192824

-Verify the correct software operation

   User: BODY1

   Password: from BSP or VDA+

-Day Running Light OFF

-Day Running Light ON