

REFERENCE:	Nova Bus Manuals
SECTION:	16: Electrical System
RS N°:	MQR 7621-1881
EFFECTIVE IN PROD.:	N/A

APPLICATION DEADLINE: N/A

SUBJECT:	Replacement of obsolete AIC3 module by AIC4 module at +RF0.
JUSTIFICATION:	Obsolete AIC3 module needs to be replaced by the newer AIC4 module.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace AIC3 module by AIC4 module.	Client	Client	45 min
2	Install a USB adapter cable	Client	Client	5 min

MATERIAL				
QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N76971		Module AIC4	–
1	21816238		Display Adapter Cable	–
5	G5007996		Cable Tie Black 13.5"	–
				–
LEVEL 2 (5 % of 711 vehicles)				
1	21875266		USB Adapter Cable	–
–	–	–	–	–

To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at prevostparts.commandes@volvo.com. Specify document number, quantity of parts required and shipping address.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED	* Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect.
	X	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2020FE19	Initial release	Nandan BS

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
St. John - New Brunswick	L272	—	—	S92U483000011	S92U483000011	1
St. John - New Brunswick	L273	—	—	S92U383000050	S92U383000050	1
Saskatoon - Saskatchewan	L359	—	—	S92U583000289	S92U583000289	1
Regina - Saskatchewan	L360	—	—	L82U283000290	L82U283000290	1
BC Transit - BCT - British Columbia	L414	9268	9289	L82U983000299	L82U783000320	22
BC Transit - BCT - British Columbia	L417	9290	9297	L82U983000321	L82U183000328	8
Moncton (Codiac) - New Brunswick	L358	358-1	358-1	L82U093000001	L82U093000001	1
Moncton (Codiac) - New Brunswick	L361	361-1	361-1	L82U293000002	L82U293000002	1
BC Transit - BCT - British Columbia	L430	9301	9318	L82U483000503	L82U483000520	18
BC Transit - BCT - British Columbia	L458	9298	9300	L82U683000521	L82UX83000523	3
Greater Toronto Airports Authority - GTAA - Ontario	L432	432-1	432-1	L82U793000061	L82U793000061	1
Greater Toronto Airports Authority - GTAA - Ontario	L477	L477-1	L477-1	L82U194000001	L82U194000001	1
BC Transit - BCT - British Columbia	L463	9319	9333	L82U093000273	L82U093000287	15
University of Alabama - Alabama	L479	479-1	479-1	L82U394000002	L82U394000002	1
University of Alabama - Alabama	L480	480-1	480-1	L82U594000003	L82U594000003	1
BC Transit - BCT - British Columbia	L481	9334	9353	L82U794000004	L82U094000023	20
Sudbury - Ontario	L465	791	795	L82U593000317	L82U793000321	5
Arrow Coach Line - Arkansas	L494	—	—	L82U793000397	L82U793000397	1
BC Transit - BCT - British Columbia	L486	9354	9369	L82U294000024	L82U494000039	16
New York City Transit - New York	L536	1200	1201	S92U793000490	S92U993000491	2
BC Transit - BCT - British Columbia	L484	9370	9403	L82U494000090	L82U494000123	34
BC Transit - BCT - British Columbia	L487	9404	9433	L82U094000149	L82U794000178	30
New York City Transit - New York	L545	1202	1289	S92U5A4000001	S92U0A4000098	88
Sudbury - Ontario	L552	801	808	L82U3A3000238	L82U0A3000245	8
Moncton (Codiac) - New Brunswick	L569	—	—	L82U4B4000001	L82U4B4000001	1
Moncton (Codiac) - New Brunswick	L570	—	—	L82U6B4000002	L82U6B4000002	1
Saskatoon - Saskatchewan	L568	—	—	S92U9B3000013	S92U9B3000013	1
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15
Greater Toronto Airports Authority - GTAA - Ontario	L616	—	—	L82U4C4500001	L82U4C4500001	1
Clemson Area Transit - South Carolina	L617	—	—	S92U5C4500002	S92U5C4500002	1
Sudbury - Ontario	L632	811	817	L82U9B3000326	L82U4B3000332	7
Saskatoon - Saskatchewan	L618	—	—	S92U1C3000377	S92U1C3000377	1
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125
New York City Transit - New York	L681	5896	5283	S92U2C4500023	S92U9C4500195	122
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission in neutral (N).
- 1.2. Turn the ignition switch to OFF position and engage the parking brake.
- 1.3. Set the master control switch in the STOP position (see figure 1).

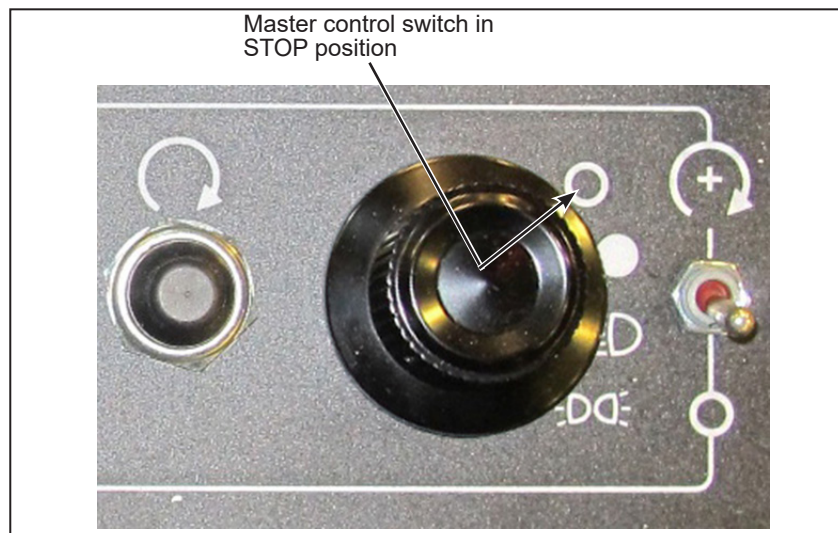


Figure 1 - Master Control Switch in STOP Position

- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see figure 2).

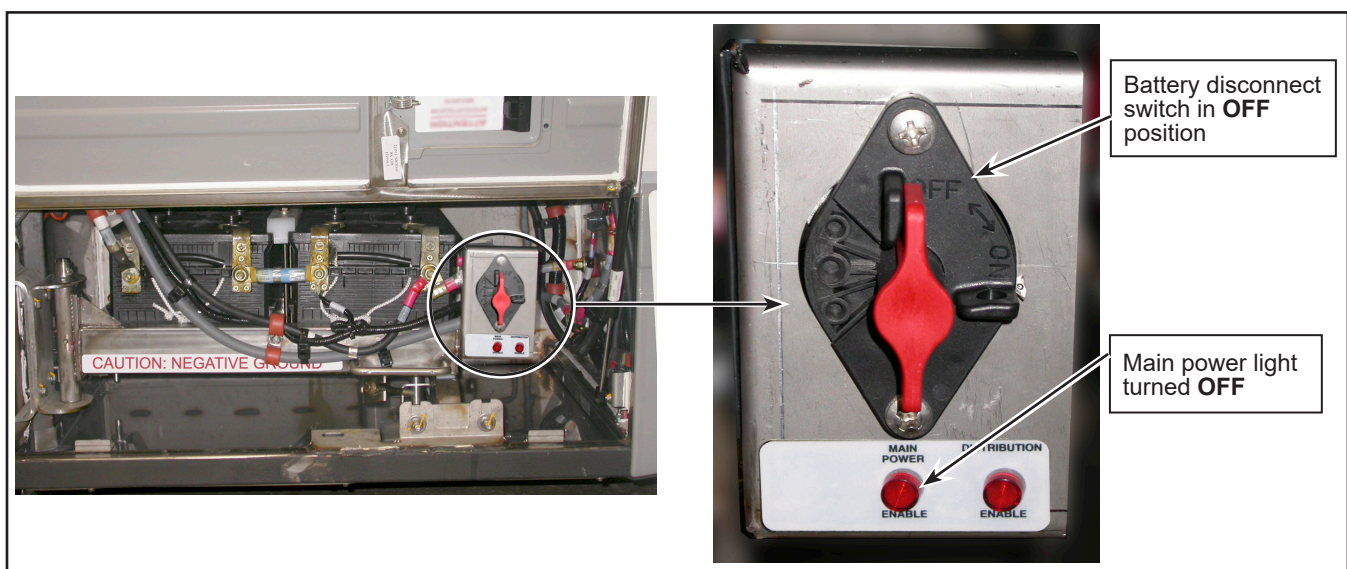


Figure 2 - View of Battery Disconnect Switch

**CAUTION**

Before removing, dismantling or maintaining any electrical component the electrician should take the necessary precautions to avoid any risk of personal injury or damage to the equipment.

ACCESSING THE +RF0 PANEL

- 1.5. Unlock the driver's overhead panel door latches and lower the panel access door (see figure 3).

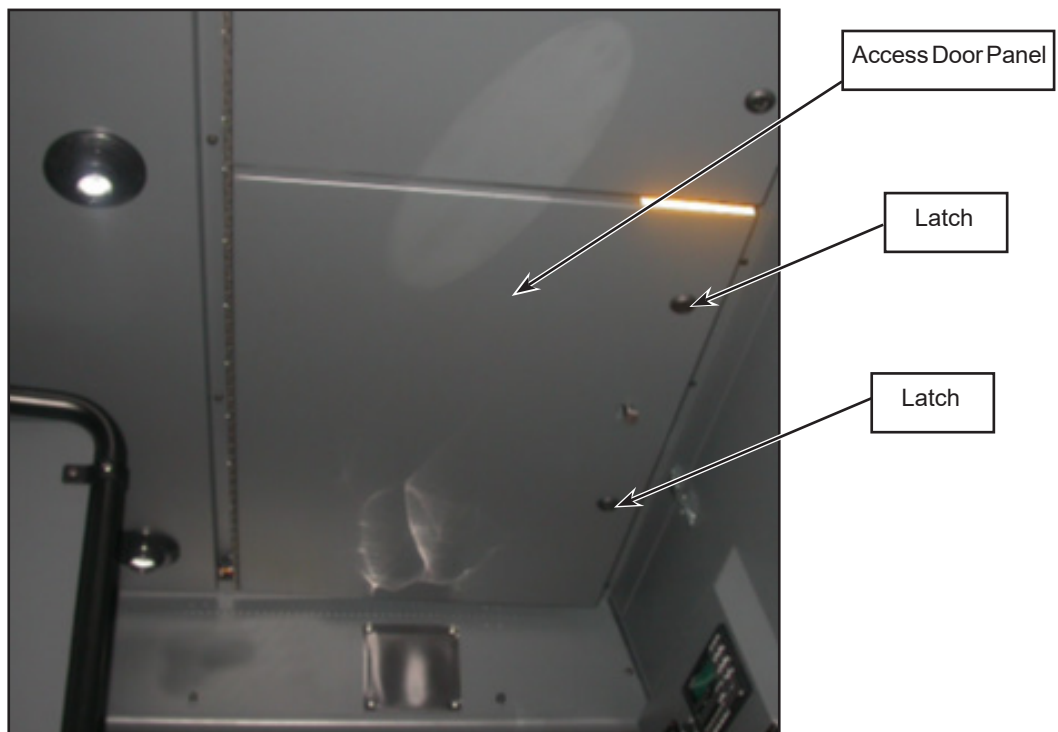


Figure 3 - Driver Overhead +RF0 Panel

REMOVING THE AIC3 MODULE

- 1.6. Locate the AIC3 module (see figure 4).
- 1.7. Disconnect the display connector and the green JAE type connectors.
- 1.8. Depending on the vehicle configuration, also disconnect the RJ-45 type connector and the Mitsumi USB type connector.
- 1.9. Remove and retain the four screws holding the AIC3 module to the +RF0 panel.
- 1.10. Remove the module from the panel.

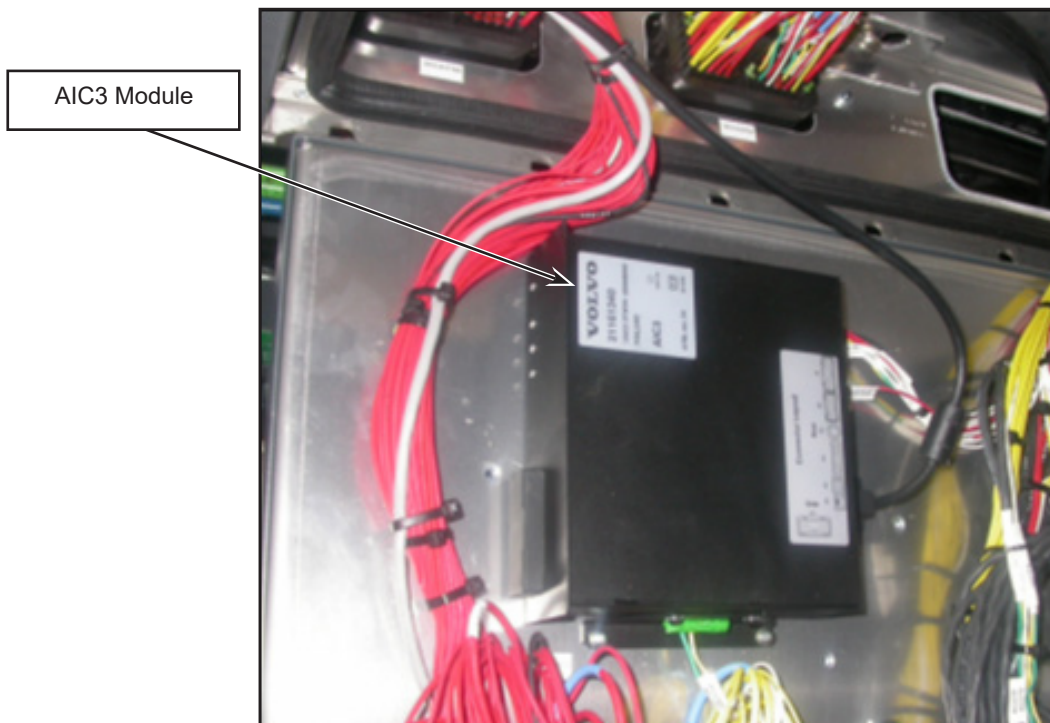


Figure 4 - AIC3 Module Located on the Right Panel Section

INSTALLATION OF AIC4 MODULE

- 1.11. Using the previously retained screws, install the AIC4 module PN N76971 at the location where AIC3 was removed.
- 1.12. Reconnect the green connectors to the AIC4 module (reconnect the RJ-45 connector if present).
- 1.13. Connect the display adapter cable PN 21816238 between the AIC4 module VGA connection and the display cable previously disconnected (see figure 5 & 6).

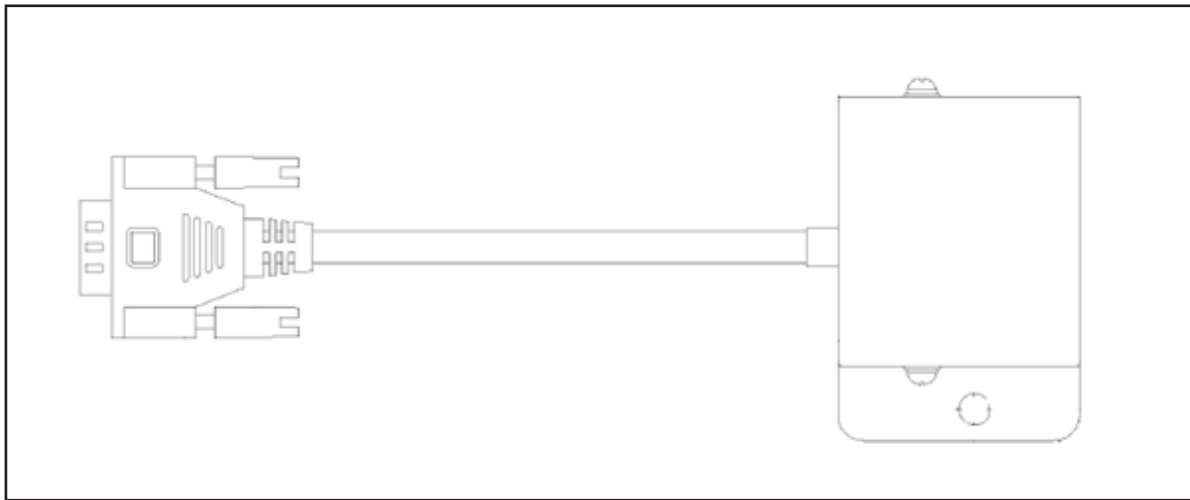


Figure 5 - Display Adapter Cable



Figure 6 - Rear View of AIC4 Module



NOTE

If a Mitsumi (USB) connector type has been disconnected from AIC3 module then continue with Level 2 procedure using USB adapter cable PN 21875266.

PROGRAMMING THE AIC4 MODULE

- 1.14. Program the AIC system using the program and revision shown in the table entitled "AIC programs List" or the one recommended by your customer support manager. See Section 16: Advanced Information Centre from your maintenance manual for the programming procedure under the heading "Reprogramming".

AIC program List

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAMS
		FROM	TO	FROM	TO		
St. John - New Brunswick	L272	—	—	S92U483000011	S92U483000011	1	*
St. John - New Brunswick	L273	—	—	S92U383000050	S92U383000050	1	*
Saskatoon - Saskatchewan	L359	—	—	S92U583000289	S92U583000289	1	*
Regina - Saskatchewan	L360	—	—	L82U283000290	L82U283000290	1	*
BC Transit - BCT - British Columbia	L414	9268	9289	L82U983000299	L82U783000320	22	AIC4FW_BCT_S_I
BC Transit - BCT - British Columbia	L417	9290	9297	L82U983000321	L82U183000328	8	AIC4FW_BCT_S_I
Moncton (Codiac) - New Brunswick	L358	358-1	358-1	L82U093000001	L82U093000001	1	*
Moncton (Codiac) - New Brunswick	L361	361-1	361-1	L82U293000002	L82U293000002	1	*
BC Transit - BCT - British Columbia	L430	9301	9318	L82U483000503	L82U483000520	18	AIC4FW_BCT_S_I
BC Transit - BCT - British Columbia	L458	9298	9300	L82U683000521	L82UX83000523	3	AIC4FW_BCT_S_I
Greater Toronto Airports Authority - GTAA - Ontario	L432	432-1	432-1	L82U793000061	L82U793000061	1	*
Greater Toronto Airports Authority - GTAA - Ontario	L477	L477-1	L477-1	L82U194000001	L82U194000001	1	*
BC Transit - BCT - British Columbia	L463	9319	9333	L82U093000273	L82U093000287	15	AIC4FW_BCT_S_I
University of Alabama - Alabama	L479	479-1	479-1	L82U394000002	L82U394000002	1	AIC4FW_ALA_S_I
University of Alabama - Alabama	L480	480-1	480-1	L82U594000003	L82U594000003	1	AIC4FW_ALA_S_I
BC Transit - BCT - British Columbia	L481	9334	9353	L82U794000004	L82U094000023	20	AIC4FW_BCT_S_I
Sudbury - Ontario	L465	791	795	L82U593000317	L82U793000321	5	AIC4FW_SUD_D_I
Arrow Coach Line - Arkansas	L494	—	—	L82U793000397	L82U793000397	1	*
BC Transit - BCT - British Columbia	L486	9354	9369	L82U294000024	L82U494000039	16	AIC4FW_BCT_S_I
New York City Transit - New York	L536	1200	1201	S92U793000490	S92U993000491	2	AIC4_DISP_NY_S_I
BC Transit - BCT - British Columbia	L484	9370	9403	L82U494000090	L82U494000123	34	AIC4FW_BCT_S_I
BC Transit - BCT - British Columbia	L487	9404	9433	L82U094000149	L82U794000178	30	AIC4FW_BCT_S_I
New York City Transit - New York	L545	1202	1289	S92U5A4000001	S92U0A4000098	88	AIC4_DISP_NY_S_I
Sudbury - Ontario	L552	801	808	L82U3A3000238	L82U0A3000245	8	AIC4FW_SUD_D_I
Moncton (Codiac) - New Brunswick	L569	—	—	L82U4B4000001	L82U4B4000001	1	*
Moncton (Codiac) - New Brunswick	L570	—	—	L82U6B4000002	L82U6B4000002	1	*
Saskatoon - Saskatchewan	L568	—	—	S92U9B3000013	S92U9B3000013	1	*
New York City Transit - New York	L608	8000	8014	L82U6B4000047	L82U0B4000061	15	AIC4_DISP_NY_S_I
New York City Transit - New York	L620	8015	8074	L82U2B4000062	L82U7B4000123	60	AIC4_DISP_NY_S_I
New York City Transit - New York	L621	8075	8089	L82U9B4000124	L82U9B4000138	15	AIC4_DISP_NY_S_I
Greater Toronto Airports Authority - GTAA - Ontario	L616	—	—	L82U4C4500001	L82U4C4500001	1	AIC4FW_USA_S_I
Clemson Area Transit - South Carolina	L617	—	—	S92U5C4500002	S92U5C4500002	1	AIC4FW_USA_S_I

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAMS
		FROM	TO	FROM	TO		
Sudbury - Ontario	L632	811	817	L82U9B3000326	L82U4B3000332	7	AIC4FW_SUD_D_I
Saskatoon - Saskatchewan	L618	—	—	S92U1C3000377	S92U1C3000377	1	AIC4FW_USA_S_I
New York City Transit - New York	L643	5895	5895	S92U1B4000143	S92U1B4000143	1	AIC4_DISP_NY_S_I
New York City Transit - New York	L670	5770	5894	S92U9B4000147	S92UXC4500061	125	AIC4_DISP_NY_S_I
New York City Transit - New York	L681	5896	5283	S92U2C4500023	S92U9C4500195	122	AIC4_DISP_NY_S_I
New York City Transit - New York	L692	5284	5363	S92U3C4500158	S92U3D4500274	80	AIC4_DISP_NY_S_I

**NOTE**

* Please contact your customer support manager to get the program or an up-to-date revision of it.

- 1.15. Using cable ties PN G5007996, secure the display adapter cable and make sure there is no interference and rubbing when closing the panel.

CLOSING THE +RF0 PANEL

- 1.16. Raise the panel door.
 1.17. Lock the overhead panel door latches.
 1.18. Place the master control switch in ON position.
 1.19. Set the battery disconnect switch in the battery compartment to the ON position.
 1.20. The vehicle may be returned to service. ❖

LEVEL 2

**NOTE**

This level is applicable if a USB cable with a Mitsumi type connector must be connected to the new AIC4 module.

- 2.1. Connect the USB adapter cable PN 21875266 between the AIC4 module USB connection and the Mitsumi type connector previously removed (see figure 6 & 7).



Figure 7 - USB Adapter Cable

- 2.2. Go to "PROGRAMMING THE AIC4 MODULE" Section.