

REFERENCE:	Nova Bus Manuals
SECTION:	02: Doors
RS N°:	MQR 7621-2345

APPLICATION DEADLINE: 2023JU01  
CLAIM REFERENCE NUMBER: WB-5261

SUBJECT:	Doors
JUSTIFICATION:	Door code 105 is being logged on electric doors

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Install the new program version	Nova Bus	Nova Bus	20min
2	-	-	-	-

#### MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
<b>LEVEL 1</b>			
-	-	-	-
<b>LEVEL 2</b>			
-	-	-	-

#### DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED	
	-	-	

#### REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2022AL26	Initial release	André Pelletier

APPROVED BY:

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NQF772004 VERSION 3

Eric Charest

Signature numérique de Eric Charest  
Date : 2022.04.26 18:04:40 -04'00'

CLIENT	ORDER	ROAD NUMBER		VIN		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LC79	9624	9624	4RKYL82L3M9777783	4RKYL82L3M9777783	1
New York City Transit New York - NYCT	LC79	9625	9625	4RKYL82L5M9777784	4RKYL82L5M9777784	1
New York City Transit New York - NYCT	LC79	9626	9626	4RKYL82L7M9777785	4RKYL82L7M9777785	1
New York City Transit New York - NYCT	LC79	9627	9627	4RKYL82L9M9777786	4RKYL82L9M9777786	1
New York City Transit New York - NYCT	LC79	9628	9628	4RKYL82L0M9777787	4RKYL82L0M9777787	1
New York City Transit New York - NYCT	LC79	9629	9629	4RKYL82L2M9777788	4RKYL82L2M9777788	1
New York City Transit New York - NYCT	LC79	9630	9630	4RKYL82L4M9777789	4RKYL82L4M9777789	1
New York City Transit New York - NYCT	LC79	9631	9631	4RKYL82L0M9777790	4RKYL82L0M9777790	1
New York City Transit New York - NYCT	LC79	9632	9632	4RKYL82L2M9777791	4RKYL82L2M9777791	1
New York City Transit New York - NYCT	LC79	9633	9633	4RKYL82L4M9777792	4RKYL82L4M9777792	1
New York City Transit New York - NYCT	LC79	9634	9634	4RKYL82L6M9777793	4RKYL82L6M9777793	1
New York City Transit New York - NYCT	LC79	9636	9636	4RKYL82LXM9777795	4RKYL82LXM9777795	1
New York City Transit New York - NYCT	LC79	9637	9637	4RKYL82L1M9777796	4RKYL82L1M9777796	1
New York City Transit New York - NYCT	LC79	9639	9639	4RKYL82L5M9777798	4RKYL82L5M9777798	1
New York City Transit New York - NYCT	LC79	9644	9644	4RKYL82L5M9777803	4RKYL82L5M9777803	1
New York City Transit New York - NYCT	LC79	9645	9645	4RKYL82L7M9777804	4RKYL82L7M9777804	1
New York City Transit New York - NYCT	LC79	9646	9646	4RKYL82L9M9777805	4RKYL82L9M9777805	1
New York City Transit New York - NYCT	LC79	9648	9648	4RKYL82L2M9777807	4RKYL82L2M9777807	1
New York City Transit New York - NYCT	LC79	9649	9649	4RKYL82L4M9777808	4RKYL82L4M9777808	1
New York City Transit New York - NYCT	LC79	9650	9650	4RKYL82L6M9777809	4RKYL82L6M9777809	1
New York City Transit New York - NYCT	LC79	9652	9652	4RKYL82L4M9777811	4RKYL82L4M9777811	1
New York City Transit New York - NYCT	LC79	9653	9653	4RKYL82L6M9777812	4RKYL82L6M9777812	1
New York City Transit New York - NYCT	LC79	9654	9654	4RKYL82L8M9777813	4RKYL82L8M9777813	1
New York City Transit New York - NYCT	LC79	9655	9655	4RKYL82LXM9777814	4RKYL82LXM9777814	1
New York City Transit New York - NYCT	LC79	9656	9656	4RKYL82L1M9777815	4RKYL82L1M9777815	1
New York City Transit New York - NYCT	LC79	9657	9657	4RKYL82L3M9777816	4RKYL82L3M9777816	1
New York City Transit New York - NYCT	LC79	9658	9658	4RKYL82L5M9777817	4RKYL82L5M9777817	1
New York City Transit New York - NYCT	LC79	9659	9659	4RKYL82L7M9777818	4RKYL82L7M9777818	1
New York City Transit New York - NYCT	LC79	9660	9660	4RKYL82L9M9777819	4RKYL82L9M9777819	1
New York City Transit New York - NYCT	LC79	9661	9661	4RKYL82L5M9777820	4RKYL82L5M9777820	1
New York City Transit New York - NYCT	LC79	9662	9662	4RKYL82L7M9777821	4RKYL82L7M9777821	1
New York City Transit New York - NYCT	LC79	9663	9663	4RKYL82L9M9777822	4RKYL82L9M9777822	1
New York City Transit New York - NYCT	LC79	9664	9664	4RKYL82L0M9777823	4RKYL82L0M9777823	1
New York City Transit New York - NYCT	LC79	9665	9665	4RKYL82L2M9777824	4RKYL82L2M9777824	1
New York City Transit New York - NYCT	LC79	9666	9666	4RKYL82L4M9777825	4RKYL82L4M9777825	1
New York City Transit New York - NYCT	LC79	9667	9667	4RKYL82L6M9777826	4RKYL82L6M9777826	1
New York City Transit New York - NYCT	LC79	9668	9668	4RKYL82L8M9777827	4RKYL82L8M9777827	1
New York City Transit New York - NYCT	LC79	9669	9669	4RKYL82LXM9777828	4RKYL82LXM9777828	1
New York City Transit New York - NYCT	LC79	9670	9670	4RKYL82L1M9777829	4RKYL82L1M9777829	1
New York City Transit New York - NYCT	LC79	9671	9671	4RKYL82L8M9777830	4RKYL82L8M9777830	1
New York City Transit New York - NYCT	LC79	9672	9672	4RKYL82LXM9777831	4RKYL82LXM9777831	1
New York City Transit New York - NYCT	LC79	9673	9673	4RKYL82L1M9777832	4RKYL82L1M9777832	1

CLIENT	ORDER	ROAD NUMBER		VIN		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LC79	9674	9674	4RKYL82L3M9777833	4RKYL82L3M9777833	1
New York City Transit New York - NYCT	LC79	9675	9675	4RKYL82L5M9777834	4RKYL82L5M9777834	1
New York City Transit New York - NYCT	LC79	9676	9676	4RKYL82L7M9777835	4RKYL82L7M9777835	1
New York City Transit New York - NYCT	LC79	9677	9677	4RKYL82L9M9777836	4RKYL82L9M9777836	1
New York City Transit New York - NYCT	LC79	9678	9678	4RKYL82L0M9777837	4RKYL82L0M9777837	1
New York City Transit New York - NYCT	LC79	9679	9679	4RKYL82L2M9777838	4RKYL82L2M9777838	1
New York City Transit New York - NYCT	LC79	9680	9680	4RKYL82L4M9777839	4RKYL82L4M9777839	1
New York City Transit New York - NYCT	LC79	9681	9681	4RKYL82L0M9777840	4RKYL82L0M9777840	1
New York City Transit New York - NYCT	LC79	9682	9682	4RKYL82L2M9777841	4RKYL82L2M9777841	1
New York City Transit New York - NYCT	LC79	9683	9683	4RKYL82L4M9777842	4RKYL82L4M9777842	1
New York City Transit New York - NYCT	LC79	9684	9684	4RKYL82L6M9777843	4RKYL82L6M9777843	1
New York City Transit New York - NYCT	LC79	9685	9685	4RKYL82L8M9777844	4RKYL82L8M9777844	1
New York City Transit New York - NYCT	LC79	9687	9687	4RKYL82L1M9777846	4RKYL82L1M9777846	1
New York City Transit New York - NYCT	LC79	9688	9688	4RKYL82L3M9777847	4RKYL82L3M9777847	1
New York City Transit New York - NYCT	LC79	9689	9689	4RKYL82L5M9777848	4RKYL82L5M9777848	1
New York City Transit New York - NYCT	LC79	9690	9690	4RKYL82L7M9777849	4RKYL82L7M9777849	1
New York City Transit New York - NYCT	LC79	9691	9691	4RKYL82L3M9777850	4RKYL82L3M9777850	1
New York City Transit New York - NYCT	LC79	9692	9692	4RKYL82L5M9777851	4RKYL82L5M9777851	1
New York City Transit New York - NYCT	LC79	9693	9693	4RKYL82L7M9777852	4RKYL82L7M9777852	1
New York City Transit New York - NYCT	LC79	9694	9694	4RKYL82L9M9777853	4RKYL82L9M9777853	1
New York City Transit New York - NYCT	LC79	9696	9696	4RKYL82L2M9777855	4RKYL82L2M9777855	1
New York City Transit New York - NYCT	LC79	9697	9697	4RKYL82L4M9777856	4RKYL82L4M9777856	1
New York City Transit New York - NYCT	LC79	9698	9698	4RKYL82L6M9777857	4RKYL82L6M9777857	1
New York City Transit New York - NYCT	LC79	9699	9699	4RKYL82L8M9777858	4RKYL82L8M9777858	1
New York City Transit New York - NYCT	LC79	9700	9700	4RKYL82LXM9777859	4RKYL82LXM9777859	1
New York City Transit New York - NYCT	LC79	9701	9701	4RKYL82L6M9777860	4RKYL82L6M9777860	1
New York City Transit New York - NYCT	LC79	9702	9702	4RKYL82L8M9777861	4RKYL82L8M9777861	1
New York City Transit New York - NYCT	LC79	9703	9703	4RKYL82LXM9777862	4RKYL82LXM9777862	1
New York City Transit New York - NYCT	LC79	9704	9704	4RKYL82L1M9777863	4RKYL82L1M9777863	1
New York City Transit New York - NYCT	LC79	9705	9705	4RKYL82L3M9777864	4RKYL82L3M9777864	1
New York City Transit New York - NYCT	LC79	9706	9706	4RKYL82L5M9777865	4RKYL82L5M9777865	1
New York City Transit New York - NYCT	LC79	9707	9707	4RKYL82L7M9777866	4RKYL82L7M9777866	1
New York City Transit New York - NYCT	LC79	9708	9708	4RKYL82L9M9777867	4RKYL82L9M9777867	1
New York City Transit New York - NYCT	LC79	9710	9710	4RKYL82L2M9777869	4RKYL82L2M9777869	1
New York City Transit New York - NYCT	LC79	9711	9711	4RKYL82L9M9777870	4RKYL82L9M9777870	1
New York City Transit New York - NYCT	LC79	9712	9712	4RKYL82L2M9777872	4RKYL82L2M9777872	1
New York City Transit New York - NYCT	LC79	9713	9713	4RKYL82L4M9777873	4RKYL82L4M9777873	1
New York City Transit New York - NYCT	LC79	9714	9714	4RKYL82L6M9777874	4RKYL82L6M9777874	1
New York City Transit New York - NYCT	LC79	9715	9715	4RKYL82L8M9777875	4RKYL82L8M9777875	1
New York City Transit New York - NYCT	LC79	9716	9716	4RKYL82LXM9777876	4RKYL82LXM9777876	1
New York City Transit New York - NYCT	LC79	9717	9717	4RKYL82L1M9777877	4RKYL82L1M9777877	1
New York City Transit New York - NYCT	LC79	9718	9718	4RKYL82L3M9777878	4RKYL82L3M9777878	1

CLIENT	ORDER	ROAD NUMBER		VIN		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LC79	9719	9719	4RKYL82L5M9777879	4RKYL82L5M9777879	1
New York City Transit New York - NYCT	LC79	9720	9720	4RKYL82L1M9777880	4RKYL82L1M9777880	1
New York City Transit New York - NYCT	LC79	9721	9721	4RKYL82L3M9777881	4RKYL82L3M9777881	1
New York City Transit New York - NYCT	LC79	9723	9723	4RKYL82L7M9777883	4RKYL82L7M9777883	1
New York City Transit New York - NYCT	LC79	9724	9724	4RKYL82L9M9777884	4RKYL82L9M9777884	1
New York City Transit New York - NYCT	LC79	9725	9725	4RKYL82L0M9777885	4RKYL82L0M9777885	1
New York City Transit New York - NYCT	LC79	9726	9726	4RKYL82L2M9777886	4RKYL82L2M9777886	1
New York City Transit New York - NYCT	LC79	9727	9727	4RKYL82L4M9777887	4RKYL82L4M9777887	1
New York City Transit New York - NYCT	LC79	9728	9728	4RKYL82L6M9777888	4RKYL82L6M9777888	1
New York City Transit New York - NYCT	LC79	9730	9730	4RKYL82L4M9777890	4RKYL82L4M9777890	1
New York City Transit New York - NYCT	LC79	9731	9731	4RKYL82L6M9777891	4RKYL82L6M9777891	1
New York City Transit New York - NYCT	LC79	9732	9732	4RKYL82L8M9777892	4RKYL82L8M9777892	1
New York City Transit New York - NYCT	LC79	9733	9733	4RKYL82L3M9777900	4RKYL82L3M9777900	1
New York City Transit New York - NYCT	LC79	9734	9734	4RKYL82L5M9777901	4RKYL82L5M9777901	1
New York City Transit New York - NYCT	LC79	9735	9735	4RKYL82L7M9777902	4RKYL82L7M9777902	1
New York City Transit New York - NYCT	LC79	9736	9736	4RKYL82L9M9777903	4RKYL82L9M9777903	1
New York City Transit New York - NYCT	LC79	9737	9737	4RKYL82L0M9777904	4RKYL82L0M9777904	1
New York City Transit New York - NYCT	LC79	9738	9738	4RKYL82L2M9777905	4RKYL82L2M9777905	1
New York City Transit New York - NYCT	LC79	9739	9739	4RKYL82L4M9777906	4RKYL82L4M9777906	1
New York City Transit New York - NYCT	LC79	9740	9740	4RKYL82L6M9777907	4RKYL82L6M9777907	1
New York City Transit New York - NYCT	LC79	9742	9742	4RKYL82LXM9777909	4RKYL82LXM9777909	1
New York City Transit New York - NYCT	LC79	9743	9743	4RKYL82L6M9777910	4RKYL82L6M9777910	1
New York City Transit New York - NYCT	LC79	9745	9745	4RKYL82LXM9777912	4RKYL82LXM9777912	1
New York City Transit New York - NYCT	LC79	9746	9746	4RKYL82L1M9777913	4RKYL82L1M9777913	1
New York City Transit New York - NYCT	LC79	9748	9748	4RKYL82L5M9777915	4RKYL82L5M9777915	1
New York City Transit New York - NYCT	LC79	9749	9749	4RKYL82L7M9777916	4RKYL82L7M9777916	1
New York City Transit New York - NYCT	LC79	9750	9750	4RKYL82L9M9777917	4RKYL82L9M9777917	1
New York City Transit New York - NYCT	LC79	9751	9751	4RKYL82L0M9777918	4RKYL82L0M9777918	1
New York City Transit New York - NYCT	LC79	9752	9752	4RKYL82L2M9777919	4RKYL82L2M9777919	1
New York City Transit New York - NYCT	LC79	9753	9753	4RKYL82L9M9777920	4RKYL82L9M9777920	1
New York City Transit New York - NYCT	LC79	9754	9754	4RKYL82L4M9777923	4RKYL82L4M9777923	1
New York City Transit New York - NYCT	LC79	9755	9755	4RKYL82L6M9777924	4RKYL82L6M9777924	1
New York City Transit New York - NYCT	LC79	9756	9756	4RKYL82L8M9777925	4RKYL82L8M9777925	1
New York City Transit New York - NYCT	LC79	9757	9757	4RKYL82LXM9777926	4RKYL82LXM9777926	1
New York City Transit New York - NYCT	LC79	9758	9758	4RKYL82L1M9777927	4RKYL82L1M9777927	1
New York City Transit New York - NYCT	LC79	9759	9759	4RKYL82L3M9777928	4RKYL82L3M9777928	1
New York City Transit New York - NYCT	LC79	9760	9760	4RKYL82L5M9777929	4RKYL82L5M9777929	1
New York City Transit New York - NYCT	LC79	9761	9761	4RKYL82L1M9777930	4RKYL82L1M9777930	1
New York City Transit New York - NYCT	LC79	9762	9762	4RKYL82L3M9777931	4RKYL82L3M9777931	1
New York City Transit New York - NYCT	LC79	9763	9763	4RKYL82L5M9777932	4RKYL82L5M9777932	1
New York City Transit New York - NYCT	LC79	9764	9764	4RKYL82L7M9777933	4RKYL82L7M9777933	1
New York City Transit New York - NYCT	LC79	9765	9765	4RKYL82L0M9777935	4RKYL82L0M9777935	1
New York City Transit New York - NYCT	LC79	9766	9766	4RKYL82L2M9777936	4RKYL82L2M9777936	1

CLIENT	ORDER	ROAD NUMBER		VIN		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LC79	9767	9767	4RKYL82L4M9777937	4RKYL82L4M9777937	1
New York City Transit New York - NYCT	LC79	9768	9768	4RKYL82L6M9777938	4RKYL82L6M9777938	1
New York City Transit New York - NYCT	LC79	9769	9769	4RKYL82L8M9777939	4RKYL82L8M9777939	1
New York City Transit New York - NYCT	LC79	9770	9770	4RKYL82L4M9777940	4RKYL82L4M9777940	1
New York City Transit New York - NYCT	LC79	9771	9771	4RKYL82L6M9777941	4RKYL82L6M9777941	1
New York City Transit New York - NYCT	LC79	9772	9772	4RKYL82L8M9777942	4RKYL82L8M9777942	1
New York City Transit New York - NYCT	LC79	9773	9773	4RKYL82LXM9777943	4RKYL82LXM9777943	1
New York City Transit New York - NYCT	LC79	9774	9774	4RKYL82L1M9777944	4RKYL82L1M9777944	1
New York City Transit New York - NYCT	LC79	9775	9775	4RKYL82L3M9777945	4RKYL82L3M9777945	1
New York City Transit New York - NYCT	LC79	9776	9776	4RKYL82L5M9777946	4RKYL82L5M9777946	1
New York City Transit New York - NYCT	LC79	9777	9777	4RKYL82L7M9777947	4RKYL82L7M9777947	1
New York City Transit New York - NYCT	LC79	9778	9778	4RKYL82L9M9777948	4RKYL82L9M9777948	1
New York City Transit New York - NYCT	LC79	9779	9779	4RKYL82L0M9777949	4RKYL82L0M9777949	1
New York City Transit New York - NYCT	LC79	9780	9780	4RKYL82L7M9777950	4RKYL82L7M9777950	1
New York City Transit New York - NYCT	LC79	9782	9782	4RKYL82L0M9777952	4RKYL82L0M9777952	1
New York City Transit New York - NYCT	LC79	9783	9783	4RKYL82L2M9777953	4RKYL82L2M9777953	1
New York City Transit New York - NYCT	LC79	9784	9784	4RKYL82L4M9777954	4RKYL82L4M9777954	1
New York City Transit New York - NYCT	LD64	9787	9787	4RKYL82L8M9777956	4RKYL82L8M9777956	1
New York City Transit New York - NYCT	LD64	9789	9789	4RKYL82L1M9777958	4RKYL82L1M9777958	1
New York City Transit New York - NYCT	LD64	9791	9791	4RKYL82L0M9777966	4RKYL82L0M9777966	1
New York City Transit New York - NYCT	LD64	9792	9792	4RKYL82L2M9777967	4RKYL82L2M9777967	1
New York City Transit New York - NYCT	LD64	9793	9793	4RKYL82L4M9777968	4RKYL82L4M9777968	1
New York City Transit New York - NYCT	LD64	9794	9794	4RKYL82L6M9777969	4RKYL82L6M9777969	1
New York City Transit New York - NYCT	LD64	9795	9795	4RKYL82L2M9777970	4RKYL82L2M9777970	1
New York City Transit New York - NYCT	LD64	9796	9796	4RKYL82L4M9777971	4RKYL82L4M9777971	1
New York City Transit New York - NYCT	LD64	9797	9797	4RKYL82L6M9777972	4RKYL82L6M9777972	1
New York City Transit New York - NYCT	LD64	9800	9800	4RKYL82L1M9777975	4RKYL82L1M9777975	1
New York City Transit New York - NYCT	LD64	9801	9801	4RKYL82L3M9777976	4RKYL82L3M9777976	1
New York City Transit New York - NYCT	LD64	9802	9802	4RKYL82L5M9777977	4RKYL82L5M9777977	1
New York City Transit New York - NYCT	LD64	9803	9803	4RKYL82L7M9777978	4RKYL82L7M9777978	1
New York City Transit New York - NYCT	LD64	9804	9804	4RKYL82L9M9777979	4RKYL82L9M9777979	1
New York City Transit New York - NYCT	LD64	9805	9805	4RKYL82L5M9777980	4RKYL82L5M9777980	1
New York City Transit New York - NYCT	LD64	9806	9806	4RKYL82L7M9777981	4RKYL82L7M9777981	1
New York City Transit New York - NYCT	LD64	9810	9810	4RKYL82LXM9777991	4RKYL82LXM9777991	1
New York City Transit New York - NYCT	LD64	9812	9812	4RKYL82L3M9777993	4RKYL82L3M9777993	1
New York City Transit New York - NYCT	LD64	9813	9813	4RKYL82L5M9777994	4RKYL82L5M9777994	1
New York City Transit New York - NYCT	LD64	9815	9815	4RKYL82L9M9777996	4RKYL82L9M9777996	1
New York City Transit New York - NYCT	LD64	9816	9816	4RKYL82L0M9777997	4RKYL82L0M9777997	1
New York City Transit New York - NYCT	LD64	9817	9817	4RKYL82L2M9777998	4RKYL82L2M9777998	1
New York City Transit New York - NYCT	LD64	9818	9818	4RKYL82L4M9778005	4RKYL82L4M9778005	1
New York City Transit New York - NYCT	LD64	9819	9819	4RKYL82L6M9778006	4RKYL82L6M9778006	1
New York City Transit New York - NYCT	LD64	9821	9821	4RKYL82LXM9778008	4RKYL82LXM9778008	1
New York City Transit New York - NYCT	LD64	9822	9822	4RKYL82L1M9778009	4RKYL82L1M9778009	1

CLIENT	ORDER	ROAD NUMBER		VIN		QTY
		FROM	TO	FROM	TO	
New York City Transit New York - NYCT	LD64	9823	9823	4RKYL82L8M9778010	4RKYL82L8M9778010	1
New York City Transit New York - NYCT	LD64	9825	9825	4RKYL82L1M9778012	4RKYL82L1M9778012	1
New York City Transit New York - NYCT	LD64	9826	9826	4RKYL82L3M9778013	4RKYL82L3M9778013	1
New York City Transit New York - NYCT	LD64	9828	9828	4RKYL82L7M9778015	4RKYL82L7M9778015	1
New York City Transit New York - NYCT	LD64	9829	9829	4RKYL82L4M9778022	4RKYL82L4M9778022	1
New York City Transit New York - NYCT	LD64	9830	9830	4RKYL82L6M9778023	4RKYL82L6M9778023	1
New York City Transit New York - NYCT	LD64	9831	9831	4RKYL82L8M9778024	4RKYL82L8M9778024	1
New York City Transit New York - NYCT	LD64	9832	9832	4RKYL82LXM9778025	4RKYL82LXM9778025	1
New York City Transit New York - NYCT	LD64	9833	9833	4RKYL82L1M9778026	4RKYL82L1M9778026	1
New York City Transit New York - NYCT	LD64	9834	9834	4RKYL82L3M9778027	4RKYL82L3M9778027	1
New York City Transit New York - NYCT	LD64	9836	9836	4RKYL82L7M9778029	4RKYL82L7M9778029	1
New York City Transit New York - NYCT	LD64	9837	9837	4RKYL82L3M9778030	4RKYL82L3M9778030	1
New York City Transit New York - NYCT	LD64	9838	9838	4RKYL82L5M9778031	4RKYL82L5M9778031	1
New York City Transit New York - NYCT	LD64	9839	9839	4RKYL82L7M9778032	4RKYL82L7M9778032	1
New York City Transit New York - NYCT	LD64	9840	9840	4RKYL82LXM9778039	4RKYL82LXM9778039	1
New York City Transit New York - NYCT	LD64	9841	9841	4RKYL82L6M9778040	4RKYL82L6M9778040	1
New York City Transit New York - NYCT	LD64	9842	9842	4RKYL82L8M9778041	4RKYL82L8M9778041	1
New York City Transit New York - NYCT	LD64	9844	9844	4RKYL82L1M9778043	4RKYL82L1M9778043	1
New York City Transit New York - NYCT	LD64	9845	9845	4RKYL82L3M9778044	4RKYL82L3M9778044	1
New York City Transit New York - NYCT	LD64	9846	9846	4RKYL82L0M9778051	4RKYL82L0M9778051	1
New York City Transit New York - NYCT	LD64	9847	9847	4RKYL82L2M9778052	4RKYL82L2M9778052	1
New York City Transit New York - NYCT	LD64	9848	9848	4RKYL82L4M9778053	4RKYL82L4M9778053	1
New York City Transit New York - NYCT	LD64	9850	9850	4RKYL82L8M9778055	4RKYL82L8M9778055	1
New York City Transit New York - NYCT	LD64	9851	9851	4RKYL82LXM9778056	4RKYL82LXM9778056	1
New York City Transit New York - NYCT	LD64	9855	9855	4RKYL82L1M9778060	4RKYL82L1M9778060	1
New York City Transit New York - NYCT	LD64	9856	9856	4RKYL82L3M9778061	4RKYL82L3M9778061	1
New York City Transit New York - NYCT	LD64	9857	9857	4RKYL82L4M9778070	4RKYL82L4M9778070	1
New York City Transit New York - NYCT	LD64	9858	9858	4RKYL82L6M9778071	4RKYL82L6M9778071	1
New York City Transit New York - NYCT	LD64	9859	9859	4RKYL82L8M9778072	4RKYL82L8M9778072	1
New York City Transit New York - NYCT	LD64	9861	9861	4RKYL82L1M9778074	4RKYL82L1M9778074	1
New York City Transit New York - NYCT	LD64	9863	9863	4RKYL82L5M9778076	4RKYL82L5M9778076	1
New York City Transit New York - NYCT	LD64	9865	9865	4RKYL82L9M9778078	4RKYL82L9M9778078	1
New York City Transit New York - NYCT	LD64	9866	9866	4RKYL82LXM9778087	4RKYL82LXM9778087	1
New York City Transit New York - NYCT	LD64	9867	9867	4RKYL82L1M9778088	4RKYL82L1M9778088	1
New York City Transit New York - NYCT	LD64	9872	9872	4RKYL82L5M9778093	4RKYL82L5M9778093	1
New York City Transit New York - NYCT	LD64	9875	9875	4RKYL82L8M9778105	4RKYL82L8M9778105	1
New York City Transit New York - NYCT	LD64	9876	9876	4RKYL82LXM9778106	4RKYL82LXM9778106	1
New York City Transit New York - NYCT	LD64	9878	9878	4RKYL82L3M9778108	4RKYL82L3M9778108	1
New York City Transit New York - NYCT	LD64	9880	9880	4RKYL82L1M9778110	4RKYL82L1M9778110	1
New York City Transit New York - NYCT	LD64	9881	9881	4RKYL82L3M9778111	4RKYL82L3M9778111	1
New York City Transit New York - NYCT	LD64	9882	9882	4RKYL82L5M9778112	4RKYL82L5M9778112	1
New York City Transit New York - NYCT	LD64	9889	9889	4RKYL82L8M9778119	4RKYL82L8M9778119	1

**WARNING****FOLLOW YOUR INTERNAL SAFETY PROCEDURES.**

- 1.1. Park the vehicle on an even surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the **stop** position.
- 1.3. Vapor Bus team will need to reprogram the VBI vDEC module with V3.05.14 (VBI campaign).
- 1.4. Follow the following steps to reprogram the Nova VBEA multiplex system software with the following or more recent program version: FB\_NYC4HE\_M\_02 rev. L for LC79 buses or FB\_NYC4HE\_M\_03 rev. E for LD64 buses.
- 1.5. Access the Volvo multiplex system "Master ID" DB9 connector located inside the driver overhead left console and connect it with a serial-to-USB cable to a laptop PC running the Volvo application software.
- 1.6. Refer to section 16-601.41 of the Nova Maintenance Manual for details on how to use the Volvo application software and to set up the USB Virtual COM Port (VCP) serial communication interface driver on the laptop PC.
- 1.7. If the USB-to-serial communication interface setup is completed and the connection is successful, the VBEA software Full Body (FB) package version and revision should be displayed in Volvo's application main screen.
- 1.8. Check if the appropriate FB software package version and revision information is displayed as follows by the Volvo application software to confirm that the VBEA multiplex system software was properly updated.

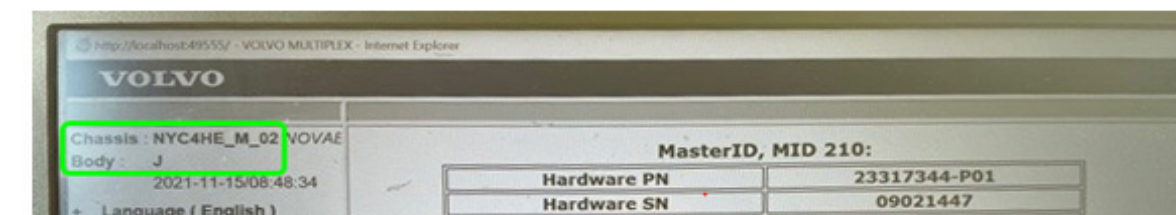
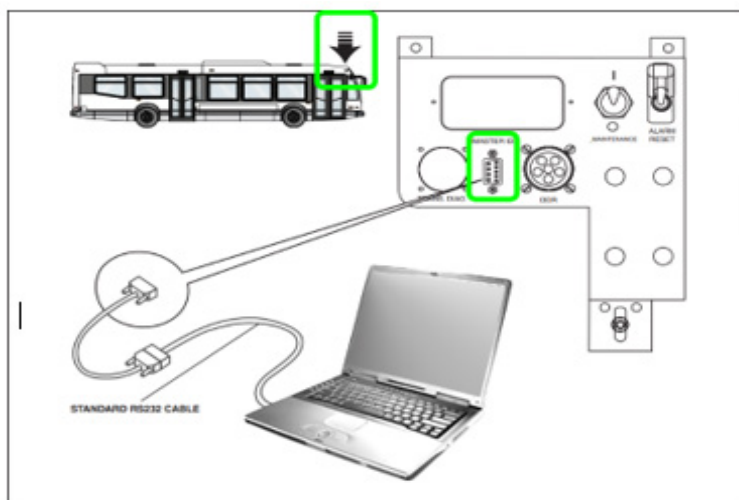


Figure 1 - Connect the Laptop, Validate the Programm Version

- 1.9. Once the vDEC module has been updated to rev. 3.05.14 and the VBEA multiplex has been updated, test results are to be recorded in an Excel file specific to each tested bus to track and testify that all needed verification and validation tests were successfully passed before returning the bus in service.



**ANNEX (PAGE 1 OF 2)**



**MPX Program**  
**Test Plan**

**Contract:** LC79, LD64  
**Bus Number:** F.Gagnon  
**Generated by:** F.Gagnon  
**Date generated:** 2021-11-11  
**Revised by:** JF Jacob  
**Date revised:** 2022-04-26  
**Executed by:**  
**Date started:**  
**Date completed:**

Test Reference	Test ID	Type	Operations to be performed	Expected Result	PASS /FAIL	Comments
VBI Campaign	vDEC Firmware	Prerequisite	Check the vDEC firmware version.	vDEC firmware is V3.05.14		
FT5261	VBEA Software (FT5261 Campaign)	Setup	Update VBEA multiplex system software	LC 79 software is FB_NYC4HE_M_02 rev. L LD64 software is FB_NYC4HE_M_03 rev. E		
FT5261	MRDI Step 1	Setup	Open specified panels.	MRDI step 1 instructions completed		
FT5261	MRDI Step 2	Static	Start bus and build air pressure.	MRDI step 2 instructions completed and all specified test criteria satisfied		
FT5261	MRDI Step 8	Static	Place the "Rear Door Control" switch to the DRIVER or SBS position. Unlock the rear door by placing the door controller handle in the rear door open position. Verify rear door functionality with run switch in day run or night run position.	MRDI step 8 instructions completed and all specified test criteria satisfied		

FT5261	MRDI Step 9	Static	Place the door controller handle in the close position. Verify functionality once the rear door is fully closed and locked. Place the "Rear Door Control" switch to the PASSENGER/Transit position. Unlock the rear door by placing the door controller handle in the rear door open position to verify functionality.	MRDI step 9 instructions completed and all specified test criteria satisfied		
FT5261	MRDI Step 10	Static	Open the rear door fully and use a magnet to activate each of the rear door panel sensor fault detection functionality.	MRDI step 10 instructions completed and all specified test criteria satisfied		
FT5261	MRDI Step 11	Static	Turn the "Door Master" switch OFF to verify rear door functionality.	MRDI step 11 instructions completed and all specified test criteria satisfied		
FT5261	MRDI Step 12	Static	Check the CLASS system functionality.	MRDI step 12 instructions completed and all specified test criteria satisfied		
FT5261	MRDI Step 14	Static	While closing the rear doors, an assistance standing outside the rear doors, press on either side of the door panel sensitive edge to verify if doors reopen. Restore and secure all opened panels.	MRDI step 14 instructions completed and all applicable test criteria satisfied		
FT5261	MRDI Step 20	Static		MRDI step 20 instructions completed and specified test criteria satisfied		
FT5261	MRDI Step 26	Setup		MRDI step 26 instructions completed		

**QJ 7621- 2435 – Doors Logging Code 105**

**GENERAL INFORMATIONS**

**e Instruction**

Document	REV	Date	By
<i>Doc name</i>	<i>NR</i>	<i>Date</i>	<i>Jean-François Jacob</i>

Order Affected / Effectivity	Road Number	Customers	QTY
LC79 (B40666 – 275 LFS 40-ft Diesel-Electric Hybrid Buses)	See FT	NYCT	144
LD64 (B40666 – 275 LFS 40-ft Diesel-Electric Hybrid Buses)	See FT	NYCT	68

**SYSTEM and PARTS:**

<b>System Name</b>	<i>Nova VBEA multiplex (FB logic)</i>
<b>Option</b>	<i>416503.C79, 416503.D64</i>
<b>Drawing</b>	<i>None</i>
<b>Part</b>	<i>FB NYC4HE_M_02, FB NYC4HE_M_03</i>

**Reason for Modification / Background:**

To resolve door issues

**Cause of Failure:**

Debouncing was not working

**MATERIAL**

Item	QTY	PART NO	REV	DESCRIPTION	REPLACES PART N°
<b>LEVEL 1</b>					
1					
2					
3					
<b>LEVEL 2</b>					

SRT	Type	Time
	Access	5 min
	Installation	5 min
	Final Validation	10 min

**SPECIAL INSTRUCTION / IMPORTANTE NOTICE**

No	Tools Needed:
1	Laptop PC running the Volvo application & MaidCom communication software (VBEA multiplex connection)
2	Standard RS-232 cable

**Important notices**

Before returning any bus into revenue service, ALL of the following actions MUST be completed.

1. Reprogram the VBI vDEC module with **V3.05.14** (VBI campaign).
2. Apply all FMIs (VBI campaign)
3. Reprogram the Nova VBEA multiplex system software with the following or more recent packages (Nova Bus FT52XY field campaign, this campaign):
  - 3.1. **FB\_NYC4HE\_M\_02 rev. L** for **LC79** buses.
  - 3.2. **FB\_NYC4HE\_M\_03 rev. E** for **LD64** buses.
4. Perform a final validation test using the abbreviated certification checklist (Nova Bus FT52XY field campaign, this campaign).

## DESCRIPTION / WORK INSTRUCTION

### Step # 1:

Access the Volvo multiplex system "Master ID" DB9 connector located inside the driver overhead left console and connect it with a serial-to-USB cable to a laptop PC running the Volvo application software.

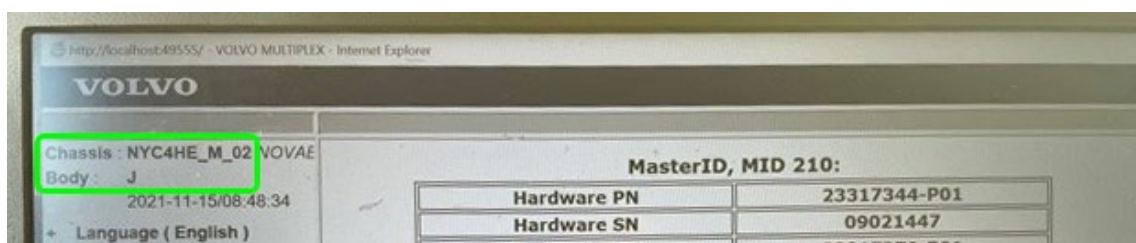
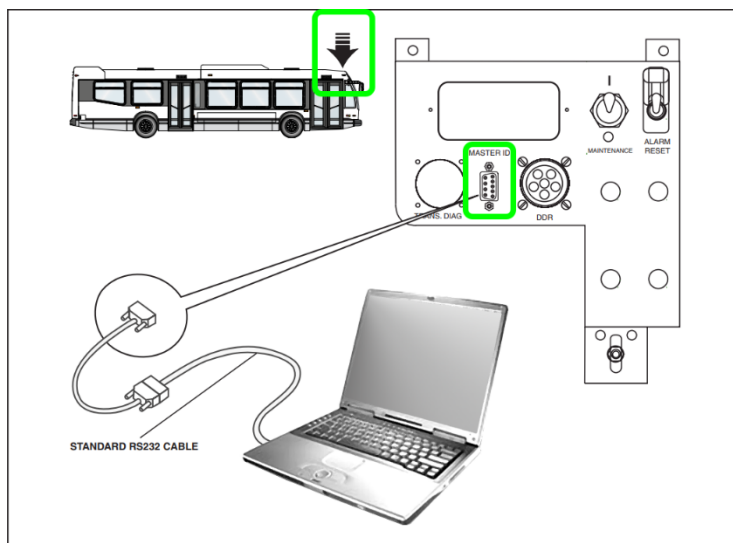
Refer to section 16-601.41 of the Nova Maintenance Manual for details on how to use the Volvo application software and to setup the USB Virtual COM Port (VCP) serial communication interface driver on the laptop PC.

If the USB-to-serial communication interface setup is completed and the connection is successful, the VBEA software Full Body (FB) package version and revision should be displayed in Volvo's application main screen.

Check if the appropriate FB software package version and revision information is displayed as follows by the Volvo application software to confirm that the VBEA multiplex system software was properly updated.

- **FB\_NYC4HE\_M\_02 rev. L** for **LC79** buses.
- **FB\_NYC4HE\_M\_03 rev. E** for **LD64** buses.

### Connect the Laptop PC to the Master ID Connector to Check the VBEA Software Version and Revision:



**Step # 2:**

Once the vDEC module has been updated to rev. 3.05.14, all Vapor FMIs done (FMI 22-012A-Shaultbau Switch, FMI 22-20A CLASS Update, FMI 21-32A Harness routing, FMI 22-019-Front Prox Switch, Belt Tension Value between 60 and 70 lbs, and bottom Acom nuts tight) (See Vapor tracker Excel sheet 'NOVA NYCT FMIS – date') and the VBEA multiplex has been updated, proceed to perform this final certification / validation test procedure by executing the applicable checklist test plan instructions specified below.

Test results are to be recorded in an Excel file specific to each tested bus to track and testify that all needed verifications and validation tests were successfully passed before returning the bus into revenue service.

**Execute the Applicable Certification Checklist Test Plan and Record the Test Results (Excel Reports)**