

REFERENCE:	Nova Bus Manuals
SECTION:	16: V-BEA (Volvo Bus Electronic Architecture)
RS N°:	MQR 7621-1374
EFFECTIVE IN PROD.:	LA12 (2017AL)

APPLICATION DEADLINE: 2019JN15
CLAIM REFERENCE NUMBER: WB-4051

SUBJECT:	V-BEA CAN (Controller Area Network) B-bus
JUSTIFICATION:	Interlock brake is activated when the B-bus network is disconnected or lost.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Reprogram V-BEA modules.	Nova Bus	Nova Bus	20 min
2	–	–	–	–

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
—	–	–	–	–
LEVEL 2				
–	–	–	–	–

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED	
	–	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2017MA31	Initial release	Luc Carignan
R1	2017JL11	Corrected claim reference number	Kumaraswamy K S
R2	2017JL17	Addition of L966 in client list and correction of program for L919 in client list.	Kumaraswamy K S

APPROVED BY:

Symbol	Meaning
Empty Field	No changes, the procedure applies
+	Contract added, the procedure applies
—	Contract removed, the procedure does not apply

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Ames Transportation Agency - Iowa	L904	6101	6104	S92J1G9775221	S92J7G9775224	4	AME6DE__01	G
	Austin - CMTA - Texas	L704	5051	5068	L82J7E4500471	L82J2E4500488	18	AUS4DE__00	G
	Austin - CMTA - Texas	LA17	5101	5107	S92J2H9775763	S92J3H9775769	7	AUS6DE__01	C
	Austin - CMTA - Texas	LA18	5151	5158	L82J0H9775770	L82J3H9775777	8	AUS4DE__01	B
	Barrie - Ontario	L878	1501	1504	L82JXF3001691	L82J6F3001719	4	BAR4DE__00	G
	Barrie - Ontario	L955	1601	1604	L82J7G9775408	L82J9G9775412	4	BAR4DE__01	NR
	Barrie - Ontario	LA31	1701	1705	L82J0H9775817	L82J2H9775821	5	BAR4DE__01	NR
	BC Transit - BCT - British Columbia	L858	9447	9481	L82JXE3001401	L82J5F3001436	35	BCT4DE__03	H
	BC Transit - BCT - British Columbia	L891	—	—	L82J5F3001565	L82J2F3001569	5	BCT4DE__03	H
	Bow Valley Transit - Alberta	L993	-	-	L82JXG3750329	L82J6G3750330	2	BWV4DE__01	C
	Bow Valley Transit - Alberta	LA26	—	—	L82J4H3750473	L82J4H3750473	1	BWV4DE__01	C
	Brampton - Ontario	L789	—	—	L82J4E3001216	L82J1E3001223	8	BRM4DE__00	L
	Brampton - Ontario	L816	—	—	L82J3E3001224	L82J9E3001230	7	BRM4DE__00	L
	Brampton - Ontario	L864	1501	1510	L82JXF3001500	L82J6F3001509	10	BRM4DE__01	F
	Brampton - Ontario	L865	1511	1519	L82JXF3001514	L82J9F3001522	9	BRM4DE__01	F
	Brampton - Ontario	L941	1614	1623	L82J1G3750123	L82J2G3750132	10	BRM4DE__02	F
	Brampton - Ontario	L942	1601	1613	L82J6G3750070	L82J4G3750083	13	BRM4DE__02	F
	Brampton - Ontario	LA20	1707	1713	L82J5H3750532	L82J6H3750538	7	BRM4DE__03	D
	Brampton - Ontario	LA21	1701	1706	L82J8H3750539	L82J1H3750544	6	BRM4DE__03	D
	Brandon - Manitoba	L899	67	70	L82J2G3750180	L82J8G3750183	4	BRD4DE__00	G
	Brantford - Ontario	L775	10131	10132	L82U1D3000999	L82U2D3001000	2	BRT4DE__02	G
	Brantford - Ontario	L928	10151	10153	L82J7F3001793	L82J0F3001795	3	BRT4DE__03	C
	Brantford - Ontario	LA03	10161	10612	L82J0G3750369	L82J7G3750370	2	BRT4DE__04	C
	Burlington - Ontario	L887	7017-15	7025-15	L82J7F3001681	L82J8F3001723	9	BUR4DE__00	J
	Calgary Transit - Alberta	L733	8201	8202	L82AXD3000926	L82A1D3000927	2	CAL4GE__00	D
	Cape Breton Nova Scotia	LA12	7092	7093	L82J8H3750587	L82JXH3750588	2	CBT4DE__00	C

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Chicago Transit Authority - CTA - Illinois	L773	—	—	L82JXD4500429	L82J6D4500430	2	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L811	7902	7949	L82J6E4500509	L82J4E4500556	48	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L837	7950	7999	L82J6E4500655	L82J1E4500708	50	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L847	8000	8049	L82J1E4500773	L82JXE4500822	50	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L848	8050	8099	L82JXF4500823	L82J1F4500872	50	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L849	8100	8149	L82J5F4500874	L82J3F4500923	50	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L850	8150	8199	L82J5F4500924	L82J6G9775013	50	CTA4DE__C00	AE
	Chicago Transit Authority - CTA - Illinois	L943	8200	8324	L82JXG9775225	L82J3G9775406	125	CTA4DE__C00	AE
	Clemson Area Transit - South Carolina	L769	—	—	S92U1D4500418	S92U1D4500418	1	CLE6DE__01	F
	Clemson Area Transit - South Carolina (ref. L641)	L722	—	—	L82U1C4500005	L82U5C4500010	5	CLE4DE__00	C
	Cornwall Ontario	L935	—	—	L82J3F3001838	L82J5F3001839	2	CWT4DE__00	B
	Démo US	LA13	—	—	L82J4G9775611	L82J5G9775620	10	NOV4DE__06	B
	Duke University - North Carolina	L938	-	-	L82L8G9775399	L82L0G9775400	2	DUK4HE__00	C
	Duke University - North Carolina (ref. L703)	L641	—	—	L82U9C4500012	L82U1C4500022	8	NOV4DE__01	G
	Durham Region Transit - Ontario	L872	8551	8553	L82J0F3001523	L82J4F3001525	3	DRT4DE__00	P
	Durham Region Transit - Ontario	L888	8554	8559	L82J2F3001703	L82J1F3001708	6	DRT4DE__00	P
	Durham Region Transit - Ontario	L996	8560	8563	L82J1G3750414	L82J7G3750417	4	DRT4DE__01	NR
	Durham Region Transit - Ontario	LA19	8564	8565	L82J9G3750418	L82J0G3750419	2	DRT4DE__01	NR
	Fredericton - New Brunswick	L774	8131	8131	L82U7D3000960	L82U7D3000960	1	FRE4DE__01	G
	Fredericton - New Brunswick	L812	—	—	L82J4E3001202	L82J4E3001202	1	FRE4DE__02	K
	Fredericton - New Brunswick	L836	8143	8143	L82J9E3001390	L82J9E3001390	1	FRE4DE__02	K
	Fredericton - New Brunswick	L901	8151	8151	L82J7F3001602	L82J7F3001602	1	FRE4DE__02	K
	Fredericton - New Brunswick	L968	8161	8162	L82J1G3750218	L82J3G3750219	2	FRE4DE__03	F
	Fredericton - New Brunswick	LA15	8171	8174	L82J1H3750589	L82J1H3750592	4	FRE4DE__04	C
	Grande Prairie Alberta	L834	—	—	L82J7E3001386	L82J2E3001389	4	GPT4DE__00	E

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Guelph - Ontario	L767	237	239	L82UXD3000967	L82U3D3000969	3	GUE4DE__02	F
	Guelph - Ontario	L835	240	243	L82J0E3001391	L82J6E3001394	4	GUE4DE__03	F
	Guelph - Ontario	L927	244	247	L82J1F3001756	L82J9F3001763	4	GUE4DE__04	D
	Guelph - Ontario	L985	248	251	L82J7G3750255	L82J2G3750258	4	GUE4DE__05	G
	Halifax - Nova Scotia	LA11	1208	1236	L82J1G9775579	L82J4G9775608	29	HAL4DE__02	G
	Halifax - Nova Scotia	LA14	1237	1237	L82J1G9775596	L82J1G9775596	1	HAL4DE__02	G
	Halifax - Nova Scotia	LA27	1238	1276	L82J5H9775778	L82J9H9775816	39	HAL4DE__02	G
	Hamilton - Ontario	L885	1501	1524	L82K3F4501093	L82K0F4501214	24	HAM4GE__00	K
	Hamilton - Ontario	L956	1601	1632	L82K2G9775325	L82K3G9775415	32	HAM4GE__00	K
	Hamilton - Ontario	LA05	1633	1643	L82K4G9775553	L82K7G9775577	11	HAM4GE__01	NR
	Hampton Roads - Virginia (L754)	L802	—	—	L82U1D4500278	L82UXD4500408	7	HMP4DE__00	A
	Honolulu - Hawaii	L559	201	224	L82U6A4000113	L82U7A4000136	24	HONO40D_MRC	N
	Houston - Texas	L951	1915	1915	L82J0G9775203	L82J0G9775203	1	HOU4DE__00	K
	Houston - Texas	L952	1580	1580	S92J5G9775318	S92J5G9775318	1	HOU6DE__01	N
	Houston - Texas	L981	1916	1994	L82J8G9775434	L82J4G9775513	79	HOU4DE__00	K
	Houston - Texas	L982	1581	1599	S92J5G9775514	S92J5G9775545	19	HOU6DE__01	N
	Kingston Ontario	L880	1502	1502	L82JXF3001786	L82JXF3001786	1	KNG4DE__00	D
	Kingston Ontario	L889	1687	1689	L82J1G3750252	L82J5G3750254	3	KNG4DE__01	NR
	Kingston Ontario	L925	1504	1510	L82J5F3001808	L82J5F3001811	4	KNG4DE__00	D
	Kingston Ontario	L954	1683	1686	L82J4G3750259	L82J4G3750262	4	KNG4DE__01	NR
	Krapf's Coaches - Pennsylvania (ref. L833)	L754	—	—	L82U4D4500405	L82U4D4500405	1	KEO4DE__02	E
	Lethbridge - Alberta	L868	—	—	L82J2F3001510	L82J2F3001510	1	LET4DE__00	G
	Lethbridge - Alberta	L997	181	186	L82J5G9775570	L82JXG9775578	6	LET4DE__01	E
	Milton - Ontario	L884	1701	1702	L82J0G3750338	L82J2G3750339	2	MIL4DE__00	A
	Moncton (Codiac) - New Brunswick	LA06	—	—	L82J3G9775552	L82JXG9775564	9	MON4DE__01	C
	MTD - Santa Barbara, California	L730	—	—	S92J8E4500567	S92J1E4500569	3	SBA6DE__00	F
	Niagara Falls - Ontario	L771	1396	1397	L82U9D3000958	L82U0D3000959	2	NIA4DE__01	J
	Niagara Falls - Ontario	L987	1601	1604	L82J6G3750344	L82J1G3750347	4	NIA4DE__02	D
	Niagara Parks Commission - Ontario	L656	—	—	L82U0C3000653	L82U2C3000654	2	NIP4DE__00	J
	North Bay - Ontario	L895	784	785	L82J7F3001678	L82J9F3001679	2	NBT4DE__00	F
	North Bay - Ontario	L979	786	787	L82J4G3750312	L82J6G3750313	2	NBT4DE__01	B

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Oakville - Ontario	L874	—	—	L82J6F3001526	L82JXF3001531	6	OAK4DE__00	R
	Oakville - Ontario	L881	—	—	L82J2F3001717	L82J8F3001740	5	OAK4DE__00	R
	Oakville - Ontario	L945	-	-	L82J9G3750211	L82JXG3750217	7	OAK4DE__00	R
	Orillia Ontario	L965	1722	1724	L82J3G3750320	L82J7G3750322	3	ORA4DE__00	B
	Peterborough - Ontario	L770	55	60	L82U0D3000993	L82UXD3000998	6	PET4DE__00	M
	Peterborough - Ontario	L870	61	63	L82JXF3001612	L82J3F3001614	3	PET4DE__01	E
	Peterborough - Ontario	L919	64	66	L82J6F3001767	L82JXF3001769	3	PET4DE__01	E
+	Peterborough - Ontario	L966	67	71	L82J2G3750230	L82JXG3750234	5	PET4DE__02	G
	Red Deer - Alberta	L766	1104	1105	L82U7D3001025	L82U9D3001026	2	RDD4DE__01	K
	Red Deer - Alberta	L772	1106	1108	L82J2E3001120	L82J6E3001122	3	RDD4DE__02	J
	Red Deer - Alberta	L813	10008	10009	L82J2E3001361	L82J4E3001362	2	RDD4DE__03	G
	Red Deer - Alberta	L869	—	—	L82J9F3001570	L82J0F3001571	2	RDD4DE__03	G
	Red Deer - Alberta	L924	10104	10147	L82K0G9775517	L82KXG9775542	12	RDD4GE__00	C
	Red Deer - Alberta	L926			L82J2F3001796	L82J4F3001797	2	RDD4DE__03	G
	Red Deer - Alberta	L960	10021	10025	L82K9G9775418	L82K3G9775429	5	RDD4GE__00	C
	Regina - Saskatchewan	L639	645	654	L82U1B3000336	L82U2B3000345	10	REG4DE__00	E
	Regina - Saskatchewan	L949	692	696	L82J3G3750205	L82J0G3750209	5	REG4DE__05	D
	Regina - Saskatchewan	L992	-	-	L82J6G3750294	L82J3G3750298	5	REG4DE__06	NR
	San Antonio Texas	L990	-	-	L82K5G9775464	L82K5G9775464	1	SAA4GE__00	H
	San Antonio Texas	LA10	422	446	L82K9G9775628	L82K8G9775653	25	SAA4GE__00	H
	San Antonio Texas	LA22	447	555	L82K8H9775654	L82K0H9775762	109	SAA4GE__00	H
	San Antonio Texas	LA34	556	580	L82K0H9775857	L82K8H9775881	25	SAA4GE__00	H
	San Antonio Texas	LA35	581	691	L82KXH9775882	L82K8H9775993	111	SAA4GE__00	H
	Sarnia Ontario	L873	151	152	L82J0F3001599	L82J0F3001600	2	SAR4DE__00	N
	Sarnia Ontario	L883	153	153	L82J4G3750021	L82J4G3750021	1	SAR4DE__00	N
	Sarnia Ontario	L963	162	162	L82J7G3750305	L82J7G3750305	1	SAR4DE__01	NR
	Saskatoon - Saskatchewan	L831	1401	1405	L82J7E3001307	L82J9E3001311	5	SAS4DE__01	F
	Saskatoon - Saskatchewan	L894	1501	1510	L82J0F3001490	L82J7F3001499	10	SAS4DE__01	F
	Saskatoon - Saskatchewan	L953	1601	1610	L82J9G3750158	L82JXG3750167	10	SAS4DE__02	E
	Saskatoon - Saskatchewan	LA29	1701	1711	L82J7H9775846	L82JXH9775856	11	SAS4DE__03	C

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Sault Ste. Marie Ontario	L934	—	—	L82JXG3750038	L82JXG3750038	1	SSM4DE__01	C
	Sault Ste-Marie Transit Services - Ontario (ref. L686)	L641	135	139	L82U7C4500008	L82U6C4500016	5	NOV4DE__01	G
	Sault Ste-Marie Transit Services - Ontario (ref. L751)	L754	—	—	L82U7D4500284	L82U7D4500284	1	KEO4DE__02	E
	St. Catharines Ontario	L879	1501	1504	L82J4F3001587	L82J4F3001590	4	SCT4DE__00	L
	St. Catharines Ontario	L882	1601	1605	L82J9G3750225	L82J9G3750229	5	SCT4DE__01	B
	St. John - New Brunswick	L871	40585	40586	L82J8F3001592	L82JXF3001593	2	SJT4DE__00	E
	St. John - New Brunswick	L939	40687	40687	L82J0G3750078	L82J0G3750078	1	SJT4DE__00	E
	St. John's - Newfoundland	L687	1201	1209	L82U7C3000598	L82U2C3000606	9	SJO4DE__00	E
	St. John's - Newfoundland	L731	1310	1314	L82U3C3000842	L82U2C3000847	5	SJO4DE__01	E
	St. John's - Newfoundland	L808	1415	1419	L82J4E3001152	L82J1E3001156	5	SJO4DE__02	K
	St. John's - Newfoundland	L875	1520	1525	L82JXF3001478	L82J3F3001483	6	SJO4DE__03	D
	St. John's - Newfoundland	L930	1626	1630	L82J7F3001826	L82J9F3001830	5	SJO4DE__04	E
	Stratford - Ontario	L634	—	—	L82UXB3000352	L82UXB3000352	1	STD4DE__00	E
	Stratford - Ontario	L752	—	—	L82U9D3000863	L82U9D3000863	1	STD4DE__01	A
	Stratford - Ontario	L893	—	—	L82J9F3001584	L82J0F3001585	2	STD4DE__02	C
	Strathcona County Transit - Alberta	L659	2024	2028	L82U7B3000440	L82U4B3000444	5	STA4DE__00	E
	Sudbury - Ontario	L890	851	855	L82JXF3001609	L82J6F3001641	5	SUD4DE__02	D
	Sudbury - Ontario	L994	861	865	L82J1G3750364	L82J9G3750368	5	SUD4DE__03	D
	Thunder Bay - Ontario	L614	—	—	L82UXB3000061	L82U3B3000063	3	THUN40D_VNS	G
	Thunder Bay - Ontario	L662	20168	20168	L82U3B3000533	L82U7B3000535	3	THN4DE__00	E
	Thunder Bay - Ontario	L739	—	—	L82U3D3000860	L82U7D3000862	3	THN4DE__01	G
	Thunder Bay - Ontario	L806	—	—	L82J6E3001170	L82J8E3001171	2	THN4DE__02	G
	Thunder Bay - Ontario	L863	—	—	L82J8F3001558	L82J6F3001560	3	THN4DE__02	G
	Thunder Bay - Ontario	L944	—	—	L82J6G3750084	L82JXG3750086	3	THN4DE__03	J
	Thunder Bay - Ontario	LA01	—	—	L82J5H3750448	L82J7H3750449	2	THN4DE__04	NR
	Timmins - Ontario	L783	—	—	L82U8D3001017	L82UXD3001018	2	TIM4DE__02	H
	Timmins - Ontario	L839	—	—	L82J8E3001395	L82J8E3001395	1	TIM4DE__03	D
	Timmins - Ontario	L995	-	-	L82JXG3750377	L82JXG3750377	1	TIM4DE__04	D
	University of Alabama - Alabama	L787	7028	7029	L82J2E4500507	L82J4E4500508	2	UAL4DE__03	F
	University of Alabama - Alabama	L902	7030	7030	L82J2F4500993	L82J4F4500994	2	UAL4DE__03	F
	University of Alabama - Alabama	L961	7032	7033	L82J7G9775294	L82J9G9775295	2	UAL4DE__04	E
	University of Alabama - Alabama	LA02	7034	7037	L82J8G9775546	L82JXG9775550	4	UAL4DE__05	B
	Vancouver Airport Authority - YVR British Columbia	L856	705	706	L82LXH3750530	L82L1H3750531	2	VIA4HE__01	B
	Vancouver Airport Authority - YVR British Columbia	L912	173	178	L82L5F3001812	L82L4F3001817	6	VIA4HE__00	K

Please contact your service representative to obtain the software revision									
	CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY	PROGRAM	REV.
			FROM	TO	FROM	TO			
	Walt Disney World - Florida	L763	—	—	S92U0D3001019	S92U4D3001024	6	WDW6DE__00	G
	Welland - Ontario	L991	-	-	L82J9G3750287	L82J9G3750287	1	WEL4DE__01	NR
	Welland Ontario	L866			L82J9F3001648	L82J9F3001648	1	WEL4DE__00	J
	Welland Ontario	L933	—	—	L82J1G3750011	L82J1G3750011	1	WEL4DE__00	J
	Whitehorse - Yukon	LA04	—	—	L82J2G3750390	L82J4G3750391	2	WHH4DE__01	D
	Windsor - Ontario	L886	570	577	L82J8F3001818	L82J5F3001825	8	WDT4DE__00	E
	Woodstock - Ontario	L778	—	—	L82U2D3001014	L82U2D3001014	1	WOO4DE__00	H
	Woodstock - Ontario	L832	—	—	L82J9E3001342	L82J9E3001342	1	WOO4DE__01	F
	Woodstock - Ontario	L923	15-16	15-16	L82J9F3001746	L82J9F3001746	1	WOO4DE__02	E
	Woodstock - Ontario	LA08	17-08	17-08	L82J3H3750514	L82J3H3750514	1	WOO4DE__03	B
	York Regional Transit - Ontario	L654	1370	1390	S92U1D3000946	S92U2D3000986	21	YRK6DE__00	H
	York Regional Transit - Ontario	L761	1391	1396	S92U6D3001008	S92UXD3001013	6	YRK6DE__00	H
	York Regional Transit - Ontario	L896	1501	1517	L82J2F3001619	L82JXF3001741	17	YRK4DE__00	L
	York Regional Transit - Ontario	L936	1518	1518	L82J3G3750012	L82J3G3750012	1	YRK4DE__00	L
	York Regional Transit - Ontario	L967	1601	1621	L82J2G9775414	L82J8G9775627	21	YRK4DE__01	NR
	York Regional Transit - Ontario	LA07	1701	1715	L82J9G3750340	L82JXG3750363	15	YRK4DE__01	NR

**WARNING**

Follow your internal safety procedures.

PROCEDURE

- 1.1. Program the V-BEA system using the program and revision indicated in the client listing or the Annex or the one recommended by your service representative. See section **16: V-BEA (VOLVO BUS ELECTRONIC ARCHITECTURE)** of the Nova LFS maintenance manual for the programming procedure. ❖