

REFERENCE:	Nova Bus Manuals	APPLICATION DEADLINE: N/A		
SECTION:	16: Electrical System			
RS N°:	MQR 7621-1142			
EFFECTIVE IN PROD.:	N/A			
SUBJECT:	Engine compartment junction block scheduled maintenance.			
JUSTIFICATION:	This document is an addendum to Nova Bus Maintenance Manual section 19-401, outlining the need to monitor the condition of junction blocks and correct when required.			
LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Inspection of junction block assemblies for corrosion and salt bridging.	Client	Client	0.3 h
2	Junction block surface cleaning and re-application of corrosion preventative product. Or Replacement of junction block assemblies and application of corrosion preventative product.	Client	Client	1.0 h or 2.5 h

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
–	–	–	–	–
LEVEL 2				
3	N86271-01	A	STUD JNCTN BLOCK TIN-PLATED RD	–
1	N86271-02	A	STUD JNCTN BLOCK TIN-PLATEDBLK	–
8	N86420	A	NUT STD 1/2" TIN-PLATED BRASS	–
8	N86419	A	WASHER FLAT 1/2" TIN-PL BRASS	–
16	N27837	B	NUT LOCKNYL M5 SSA2 DIN985	–
16	N20504	X	WASHER FLAT M5 SS DIN125A	–
16	N31985	–	SCREW M5 X 20 MACH PAN CR SS	–
5	G5007996	–	TIE WRAP	–
1	N55828-06	U	TERMINAL BOOT RED 4/0 AWG	–
1	N55828-04	U	TERMINAL BOOT RED 3/0 - 4/0 AWG	–
1	N55828-34	U	TERMINAL BOOT RED 2x 4/0 AWG	–
2	N55828-10	U	TERMINAL BOOT RED 0 - 2/0 AWG	–

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.
	Yes	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2021JA22	Initial release	Devanand

APPROVED BY:

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MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
SHOP SUPPLIES				
20 ml	N8904593	–	LIQUIDTINELECTROLESSPLATINGSOLUTION	–
1.2 g / bus	N91901	–	THREADLOCKER BLUE 248 (9 GRAM STICK)	–
102.6 g / bus	N86800	A	DOLPH ER-41 RED INSULATING VARNISH	–
34.22 g / bus	N86801	A	DOLPH EB-41 BLACK INSULATING VARNISH	–
80.4 g / bus	N67314	A	NOCO NCP-2 CORROSION PREVENTATIVE	–
20 ml	NPCHM00023	–	BRAKE & PARTS CLEANER	–
68.4 g / bus	N35450	–	MAXI-COAT CORROSION PREVENTATIVE	–

**NOTE**

Nova bus recommends to use the Dolph's insulating varnish product, but the NOCO NCP-2 or the Maxicoat or a similar product are suitable alternatives with the appropriate maintenance.

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Academy Busline - New Jersey	LA13	—	—	L82J4G9775611	L82J5G9775620	10
Airdrie Transit - Alberta	L664	—	—	L82U2B3000507	L82U2B3000507	1
Airdrie Transit - Alberta	L759	—	—	L82U0D3000928	L82U0D3000928	1
Airdrie Transit Alberta	LB10	3718	3718	L82J1J9776464	L82J1J9776464	1
Ames Transportation Agency - Iowa	L707	660	661	S92U5C4500159	S92U1C4500160	2
Ames Transportation Agency - Iowa	L904	6101	6104	S92J1G9775221	S92J7G9775224	4
Austin - CMTA - Texas	L635	5001	5001	S92U7C4500163	S92U7C4500163	1
Austin - CMTA - Texas	L636	5002	5022	S92U1D4500306	S92U0D4500328	21
Austin - CMTA - Texas	L704	5051	5068	L82J7E4500471	L82J2E4500488	18
Austin - CMTA - Texas	LA17	5101	5107	S92J2H9775763	S92J3H9775769	7
Austin - CMTA - Texas	LA18	5151	5158	L82J0H9775770	L82J3H9775777	8
Barrie Ontario - Metrolinx	L878	1501	1504	L82JXF3001691	L82J6F3001719	4
Barrie Ontario - Metrolinx	L955	1601	1604	L82J7G9775408	L82J9G9775412	4
Barrie Ontario - Metrolinx	LA31	1701	1705	L82J0H9775817	L82J2H9775821	5
Barrie Ontario - Metrolinx	LA49	1706	1713	L82J7H3750855	L82J4H3750862	8
BC Transit - BCT - British Columbia	L604	9434	9434	L82U5C3000597	L82U5C3000597	1
BC Transit - BCT - British Columbia	L735	9435	9440	L82U4C3000848	L82U8C3000853	6
BC Transit - BCT - British Columbia	L736	9441	9446	L82U8D3000854	L82U7D3000859	6
BC Transit - BCT - British Columbia	L858	9447	9481	L82JXE3001401	L82J5F3001436	35
BC Transit - BCT - British Columbia	L891	—	—	L82J5F3001565	L82J2F3001569	5
BC Transit - BCT - British Columbia	LA16	6000	6029	L82J3H9776217	L82J4H9776307	30
Belleville Ontario (ref. L962)	L840	8092	8092	L82J9E4500715	L82J9E4500715	1
Belleville Transit - Ontario	L655	—	—	L82U3B3000385	L82U3B3000385	1
Belleville Transit - Ontario	L702	—	—	L82U4D3000706	L82U4D3000706	1
Bow Valley Transit - Alberta	L712	5	6	L82U6C3000804	L82U8C3000805	2
Bow Valley Transit - Alberta	L993	—	—	L82JXG3750329	L82J6G3750330	2
Bow Valley Transit - Alberta	LA26	—	—	L82J4H3750473	L82J4H3750473	1
Bow Valley Transit - Alberta	LA28	—	—	L82J6H9776308	L82J4H9776310	3
Brandon - Manitoba	L899	67	70	L82J2G3750180	L82J8G3750183	4
Brantford - Ontario	L663	10121	10121	L82U1B3000532	L82U1B3000532	1
Brantford - Ontario	L718	10123	10125	L82U5C3000826	L82U9C3000828	3
Brantford - Ontario	L775	10131	10132	L82U1D3000999	L82U2D3001000	2
Brantford - Ontario	L928	10151	10153	L82J7F3001793	L82J0F3001795	3
Brantford - Ontario	LA03	10161	10612	L82J0G3750369	L82J7G3750370	2
Brantford - Ontario	LB64	101808	101810	L82J2J3751465	L82J6J3751467	3
Buffalo New York - NFTA - CNG	LB22	1801	1816	L82KXJ9776486	L82K1J9776506	16
Burlington - Ontario	LB35	7033-18	7036-18	L82J9J3751432	L82J0J3751433	2
Calgary Transit - Alberta	L624	—	—	L82U4B4000077	L82U6B4000078	2
Calgary Transit - Alberta	L637	8161	8180	L82U7B3000356	L82U2B3000376	20
Calgary Transit - Alberta	L709	8181	8200	L82UXC3000806	L82U3C3000825	20
Calgary Transit - Alberta	L733	8201	8202	L82AXD3000926	L82A1D3000927	2
Cape Breton Nova Scotia	LA12	7092	7093	L82J8H3750587	L82JXH3750588	2
Capital Area Rural Transportation System (CARTS)	L980	—	—	L82J1G9775565	L82J9G9775569	3
Chicago Transit Authority - CTA - Illinois	L773	—	—	L82JXD4500429	L82J6D4500430	2

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Chicago Transit Authority - CTA - Illinois	L811	7902	7949	L82J6E4500509	L82J4E4500556	48
Chicago Transit Authority - CTA - Illinois	L837	7950	7999	L82J6E4500655	L82J1E4500708	50
Chicago Transit Authority - CTA - Illinois	L847	8000	8049	L82J1E4500773	L82JXE4500822	50
Chicago Transit Authority - CTA - Illinois	L848	8050	8099	L82JXF4500823	L82J1F4500872	50
Chicago Transit Authority - CTA - Illinois	L849	8100	8149	L82J5F4500874	L82J3F4500923	50
Chicago Transit Authority - CTA - Illinois	L850	8150	8199	L82J5F4500924	L82J6G9775013	50
Chicago Transit Authority - CTA - Illinois	L943	8200	8324	L82JXG9775225	L82J3G9775406	125
Chicago Transit Authority - CTA - Illinois	LB58	8325	8349	L82J7J9776906	L82J8J9776946	25
Clemson Area Transit - South Carolina	L617	—	—	S92U5C4500002	S92U5C4500002	1
Clemson Area Transit - South Carolina	L769	—	—	S92U1D4500418	S92U1D4500418	1
CMBC (TransLink) - British Columbia	LB32	18451	18473	L82J5J9776726	L82J4J9776748	23
CNG Demo (ref. L957)	L840	8093	8093	L82J0E4500716	L82J0E4500716	1
Cold Lake	LA99	5013	5014	L82J7J3751302	L82J9J3751303	2
Cornwall - Ontario	LB55	—	—	L82J8J3751468	L82J8J3751468	1
Cornwall Ontario - Metrolinx	L935	—	—	L82J3F3001838	L82J5F3001839	2
Cornwall Ontario - Metrolinx	LA53	—	—	L82J2H3750892	L82J6H3750894	3
Demo CNG	L716	—	—	L82A5D3000896	L82A5D3000896	1
Duke University - North Carolina	L938	—	—	L82L8G9775399	L82L0G9775400	2
Duke University - North Carolina	LA38	—	—	L82L9H9775994	L82L9H9775994	1
Duke University - North Carolina	LA39	—	—	S92LXH9775995	S92LXH9775995	1
Duke University - North Carolina (ref. L703)	L641	—	—	L82U9C4500012	L82U1C4500022	8
Durham Region Transit Ontario - Metrolinx	LB36	6100	6112	L82J2J3751417	L82J7J3751431	13
Durham Region Transit Ontario - Metrolinx	LB60	7100	7103	L82J5J3751539	L82J5J3751542	4
Fredericton - New Brunswick	L672	8111	8112	L82U0B3000540	L82U2B3000541	2
Fredericton - New Brunswick	L688	8113	8113	L82U8C3000643	L82U8C3000643	1
Fredericton - New Brunswick	L774	8131	8131	L82U7D3000960	L82U7D3000960	1
Fredericton - New Brunswick	L812	—	—	L82J4E3001202	L82J4E3001202	1
Fredericton - New Brunswick	L836	8143	8143	L82J9E3001390	L82J9E3001390	1
Fredericton - New Brunswick	L901	8151	8151	L82J7F3001602	L82J7F3001602	1
Fredericton - New Brunswick	L968	8161	8162	L82J1G3750218	L82J3G3750219	2
Fredericton - New Brunswick	LA15	8171	8174	L82J1H3750589	L82J1H3750592	4
Fredericton - New Brunswick	LA33	8181	8184	L82J6H3750944	L82J1H3750947	4
Grand River Transit - GRT - Ontario	L633	21101	21115	L82U7B3000289	L82U8B3000303	15
Grand River Transit - GRT - Ontario	L668	21201	21220	L82U6C3000737	L82UXC3000756	20
Grande Prairie Alberta	L834	—	—	L82J7E3001386	L82J2E3001389	4
Greater Toronto Airports Authority - GTAA - Ontario	L616	—	—	L82U4C4500001	L82U4C4500001	1
Guelph - Ontario	L669	225	228	L82U9B3000536	L82U4B3000539	4
Guelph - Ontario	L715	234	235	L82U3C3000792	L82U5C3000793	2
Guelph - Ontario	L767	237	239	L82UXD3000967	L82U3D3000969	3
Guelph - Ontario	L835	240	243	L82J0E3001391	L82J6E3001394	4
Guelph - Ontario	L927	244	247	L82J1F3001756	L82J9F3001763	4
Guelph - Ontario	L985	248	251	L82J7G3750255	L82J2G3750258	4
Guelph - Ontario	LA54	252	275	L82J1H3750849	L82J0H3750891	24

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Halifax - Nova Scotia	L693	526	534	L82U8C3000657	L82U7C3000665	9
Halifax - Nova Scotia	L710	1160	1161	L82U7C3000780	L82U9C3000781	2
Halifax - Nova Scotia	L708	742	761	S92UXC3000782	S92U3C3000803	20
Halifax - Nova Scotia	LA11	1208	1236	L82J1G9775579	L82J4G9775608	29
Halifax - Nova Scotia	LA14	1237	1237	L82J1G9775596	L82J1G9775596	1
Halifax - Nova Scotia	LA27	1238	1276	L82J5H9775778	L82J9H9775816	39
Halifax - Nova Scotia	LB61	1277	1284	L82J9J9776664	L82J6J9776671	8
Halifax - Nova Scotia	LB70	1285	1299	L82J4J9776829	L82J9J9776843	15
Hamilton - Ontario - Metrolinx	L885	1501	1524	L82K3F4501093	L82K0F4501214	24
Hamilton - Ontario - Metrolinx	L956	1601	1632	L82K2G9775325	L82K3G9775415	32
Hamilton - Ontario - Metrolinx	LA05	1633	1643	L82K4G9775553	L82K7G9775577	11
Hamilton - Ontario - Metrolinx	LA63	1701	1719	L82K5J9776430	L82K5J9776461	30
Houston - Texas	L737	1510	1510	S92U4D4500297	S92U4D4500297	1
Houston - Texas	L755	1511	1579	S92U4D4500333	S92U8D4500402	69
Houston - Texas	L951	1915	1915	L82J0G9775203	L82J0G9775203	1
Houston - Texas	L952	1580	1580	S92J5G9775318	S92J5G9775318	1
Houston - Texas	L981	1916	1994	L82J8G9775434	L82J4G9775513	79
Houston - Texas	L982	1581	1582	S92J5G9775514	S92J7G9775515	2
Houston - Texas	L982	1583	1583	S92J9G9775516	S92J9G9775516	1
Houston - Texas	L982	1584	1586	S92J2G9775518	S92J4G9775522	3
Houston - Texas	L982	1587	1587	S92J8G9775524	S92J8G9775524	1
Houston - Texas	L982	1588	1599	S92J1G9775526	S92J5G9775545	12
Houston - Texas	LB63	2050	2050	L82K2J9776708	L82K2J9776708	1
Houston - Texas	LB72	2051	2069	L82K6J9776887	L82K4J9776905	19
Kings Transit - Nova Scotia	L581	—	—	L82U2B3000054	L82U2B3000054	1
Kingston - Ontario	LB34	1821	1841	L82J3J3751412	L82J0J3751416	5
Kingston - Ontario Metrolinx	L880	1502	1502	L82JXF3001786	L82JXF3001786	1
Kingston - Ontario Metrolinx	L925	1504	1510	L82J5F3001808	L82J5F3001811	4
Kingston - Ontario Metrolinx	L889	1687	1689	L82J1G3750252	L82J5G3750254	3
Kingston - Ontario Metrolinx	L954	1683	1686	L82J4G3750259	L82J4G3750262	4
Kingston - Ontario Metrolinx	LA60	1825	1837	L82J7H3750922	L82J8H3750931	6
Kingston - Ontario Metrolinx	LA59	1803	1818	L82JXH3750932	L82J4H3750943	11
Krapf's Coaches - Pennsylvania (ref. L833)	L754	—	—	L82U4D4500405	L82U4D4500405	1
Lethbridge - Alberta	L868	—	—	L82J2F3001510	L82J2F3001510	1
Lethbridge - Alberta	L997	181	186	L82J5G9775570	L82JXG9775578	6
Lethbridge - Alberta	LA91	189	192	L82J3J9776580	L82J9J9776583	4
LYNX - Florida	L725	—	—	S92Y9D4500329	S92Y5D4500330	2
LYNX - Florida	L764	—	—	S92Y7D4500331	S92Y9D4500332	2
LYNX - Florida	L785	—	—	S92L6E4500505	S92L8E4500506	2
Marketing Sales Demo - MSD 6 Houston	L628	—	—	L82U8C4500003	L82UXC4500004	2
Milton - Ontario	LB33	1804	1804	L82J7J3751543	L82J7J3751543	1
Minnesota Valley Transit Authority - MVTA	L706	4252	4258	L82U4C4500127	L82UXC4500133	7
Mississauga Ontario	LB12	1801	1812	L82J9J9776714	L82J3J9776725	12

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Moncton (Codiac) - New Brunswick	LA06	—	—	L82J3G9775552	L82JXG9775564	9
Moncton (Codiac) - New Brunswick	LA42	—	—	L82J8H9776066	L82J0H9776076	11
Moncton (Codiac) - New Brunswick	LA58	—	—	L82J2J9776389	L82J2J9776389	1
MTD - Santa Barbara, California	L730	—	—	S92J8E4500567	S92J1E4500569	3
NFTA - Buffalo, New York	L877	1501	1501	L82K0F4500984	L82K0F4500984	1
NFTA - Buffalo, New York	L897	1502	1520	L82K1F4501223	L82K1G9775008	19
NFTA - Buffalo, New York	L947	1601	1624	L82KXG9775248	L82K3G9775320	24
NFTA - Buffalo, New York	LA24	1701	1716	L82K3H9775822	L82K5H9775837	16
NFTA - Buffalo, New York	LA30	1717	1724	L82J8H9775838	L82J5H9775845	8
NFTA - Buffalo, New York	LB21	1817	1824	L82J9J9776518	L82J8J9776526	8
Niagara Falls - Ontario	L652	—	—	S92U3C3000607	S92U6C3000617	11
Niagara Falls - Ontario	L653	—	—	L82U9C3000618	L82U9C3000621	5
Niagara Falls - Ontario	L771	1396	1397	L82U9D3000958	L82U0D3000959	2
Niagara Falls - Ontario	L987	1601	1604	L82J6G3750344	L82J1G3750347	4
Niagara Falls Ontario - Metrolinx	LA97	1805	1808	L82J0J3750993	L82J6J3750996	4
Niagara Falls Ontario - Metrolinx	LB13	1811	1811	L82J8J3750997	L82J8J3750997	1
Niagara Falls Ontario - Metrolinx	LA98	1809	1810	S92J7J3751003	S92J9J3751004	2
Niagara Parks Commission - Ontario	L685	—	—	S92U9C3000644	S92U8C3000652	9
Niagara Parks Commission - Ontario	L656	—	—	L82U0C3000653	L82U2C3000654	2
North Bay - Ontario	L895	784	785	L82J7F3001678	L82J9F3001679	2
North Bay - Ontario	L979	786	787	L82J4G3750312	L82J6G3750313	2
North Bay - Ontario	LB48	788	790	L82J7J3751395	L82J0J3751397	3
Orillia Ontario - Metrolinx	L965	1722	1724	L82J3G3750320	L82J7G3750322	3
Orillia Ontario - Metrolinx	LA61	1825	1826	L82J2J3751031	L82J4J3751032	2
Peterborough - Ontario	L770	55	60	L82U0D3000993	L82UXD3000998	6
Peterborough - Ontario	L870	61	63	L82JXF3001612	L82J3F3001614	3
Peterborough - Ontario	L919	64	66	L82J6F3001767	L82JXF3001769	3
Peterborough - Ontario	L966	67	71	L82J2G3750230	L82JXG3750234	5
Peterborough - Ontario	LA41	7217	7617	L82J1H3750706	L82J3H3750710	5
Red Deer - Alberta	L726	—	—	L82UXC3000840	L82U1C3000841	2
Red Deer - Alberta	L766	1104	1105	L82U7D3001025	L82U9D3001026	2
Red Deer - Alberta	L772	1106	1108	L82J2E3001120	L82J6E3001122	3
Red Deer - Alberta	L813	10008	10009	L82J2E3001361	L82J4E3001362	2
Red Deer - Alberta	L869	—	—	L82J9F3001570	L82J0F3001571	2
Red Deer - Alberta	L926	—	—	L82J2F3001796	L82J4F3001797	2
Red Deer - Alberta	L960	10021	10025	L82K9G9775418	L82K3G9775429	5
Red Deer - Alberta	L924	10104	10147	L82K0G9775517	L82KXG9775542	12
Red Deer - Alberta	LB25	10074	10084	L82K5J9776525	L82K8J9776535	10
Regina - Saskatchewan	L639	645	654	L82U1B3000336	L82U2B3000345	10
Regina - Saskatchewan	L748	655	662	L82U3D3000874	L82U0D3000881	8
Regina - Saskatchewan	L776	663	669	L82U4D3001001	L82U5D3001007	7
Regina - Saskatchewan	L807	671	685	L82J8E3001137	L82J2E3001151	15
Regina - Saskatchewan	L892	686	691	L82J5F3001484	L82J4F3001489	6
Regina - Saskatchewan	L949	692	696	L82J3G3750205	L82J0G3750209	5

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Regina - Saskatchewan	L992	—	—	L82J6G3750294	L82J3G3750298	5
Regina - Saskatchewan	LA44	814	829	L82J0H3750776	L82J7H3750791	16
Regina - Saskatchewan	LB16	830	830	L82J0H3750793	L82J0H3750793	1
Regina - Saskatchewan	LB17	831	831	L82J2H3750794	L82J2H3750794	1
Regina - Saskatchewan	LB18	832	832	L82J4H3750795	L82J4H3750795	1
San Antonio Texas	LA10	422	446	L82K9G9775628	L82K8G9775653	25
San Antonio Texas	LA22	447	555	L82K8H9775654	L82K0H9775762	109
San Antonio Texas	LA34	556	580	L82K0H9775857	L82K8H9775881	25
San Antonio Texas	LA35	581	691	L82KXH9775882	L82K8H9775993	111
San Antonio Texas	LB26	692	735	L82KXJ9776536	L82K6J9776579	44
San Antonio Texas	LB43	970	987	L82K4J9776791	L82K1J9776828	18
San Joaquin County - California	L768	—	—	S92L4D4500422	S92L3D4500427	6
Sarnia Ontario	L873	151	152	L82J0F3001599	L82J0F3001600	2
Sarnia Ontario	L883	153	153	L82J4G3750021	L82J4G3750021	1
Sarnia Ontario	L963	162	162	L82J7G3750305	L82J7G3750305	1
Sarnia Ontario	LA36	171	172	L82J8H3750752	L82JXH3750753	2
Saskatoon - Saskatchewan	L618	—	—	S92U1C3000377	S92U1C3000377	1
Saskatoon - Saskatchewan	L690	1201	1204	L82U6C3000690	L82U1C3000693	4
Saskatoon - Saskatchewan	L831	1401	1405	L82J7E3001307	L82J9E3001311	5
Saskatoon - Saskatchewan	L894	1501	1510	L82J0F3001490	L82J7F3001499	10
Saskatoon - Saskatchewan	L953	1601	1610	L82J9G3750158	L82JXG3750167	10
Saskatoon - Saskatchewan	LA29	1701	1711	L82J7H9775846	L82JXH9775856	11
Saskatoon - Saskatchewan	LA92	1718	1732	L82J0H9776319	L82J8H9776343	15
Sault Ste. Marie Ontario	L934	—	—	L82JXG3750038	L82JXG3750038	1
Sault Ste-Marie Transit Services - Ontario (ref. L686)	L641	135	139	L82U7C4500008	L82U6C4500016	5
Sault Ste-Marie Transit Services - Ontario (ref. L751)	L754	—	—	L82U7D4500284	L82U7D4500284	1
SolTrans Solano County Transit California - CNG	L990	—	—	L82K5G9775464	L82K5G9775464	1
St. Catharines Ontario - Metrolinx	L879	1501	1504	L82J4F3001587	L82J4F3001590	4
St. Catharines Ontario - Metrolinx	L898	1560	1560	S92J4F3001663	S92J4F3001663	1
St. Catharines Ontario - Metrolinx	L882	1601	1605	L82J9G3750225	L82J9G3750229	5
St. Catharines Ontario - Metrolinx	LB06	1860	1862	S92J1J3751000	S92J5J3751002	3
St. Catharines Ontario - Metrolinx	LB09	1740	1740	L82J6J3751033	L82J6J3751033	1
St. Catharines Ontario - Metrolinx	LA62	1801	1813	L82J8J3751034	L82J4J3751046	13
St. John - New Brunswick	L871	40585	40586	L82J8F3001592	L82JXF3001593	2
St. John - New Brunswick	L939	40687	40687	L82J0G3750078	L82J0G3750078	1
St. John - New Brunswick	LB05	38888	38899	L82J8J3750983	L82J1J3750999	12
St. John's - Newfoundland	L687	1201	1209	L82U7C3000598	L82U2C3000606	9
St. John's - Newfoundland	L731	1310	1314	L82U3C3000842	L82U2C3000847	5
St. John's - Newfoundland	L808	1415	1419	L82J4E3001152	L82J1E3001156	5
St. John's - Newfoundland	L875	1520	1525	L82JXF3001478	L82J3F3001483	6
St. John's - Newfoundland	L930	1626	1630	L82J7F3001826	L82J9F3001830	5
Stratford - Ontario	L634	—	—	L82UXB3000352	L82UXB3000352	1
Stratford - Ontario	L752	—	—	L82U9D3000863	L82U9D3000863	1
Stratford - Ontario	L893	—	—	L82J9F3001584	L82J0F3001585	2

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Stratford - Ontario	LB19	—	—	L82J3J3751183	L82J5J3751184	2
Strathcona County Transit - Alberta	L659	2024	2028	L82U7B3000440	L82U4B3000444	5
Sudbury - Ontario	L632	811	817	L82U9B3000326	L82U4B3000332	7
Sudbury - Ontario	L740	831	833	L82U1D3000887	L82U5D3000889	3
Sudbury - Ontario	L890	851	855	L82JXF3001609	L82J6F3001641	5
Sudbury - Ontario	L994	861	865	L82J1G3750364	L82J9G3750368	5
Sudbury - Ontario	LA46	871	873	L82J1H3750821	L82J5H3750823	3
Sudbury - Ontario	LB27	881	883	L82J9J3751382	L82J2J3751384	3
Thunder Bay - Ontario	L662	20168	20168	L82U3B3000533	L82U7B3000535	3
Thunder Bay - Ontario	L739	—	—	L82U3D3000860	L82U7D3000862	3
Thunder Bay - Ontario	L806	—	—	L82J6E3001170	L82J8E3001171	2
Thunder Bay - Ontario	L863	—	—	L82J8F3001558	L82J6F3001560	3
Thunder Bay Ontario - Metrolinx	L944	—	—	L82J6G3750084	L82JXG3750086	3
Thunder Bay Ontario - Metrolinx	LA01	—	—	L82J5H3750448	L82J7H3750449	2
Thunder Bay Ontario - Metrolinx	LA57	—	—	L82J8H3750895	L82J8H3750928	12
Timmins - Ontario	L661	—	—	L82U9B3000486	L82U9B3000486	1
Timmins - Ontario	L720	12-98	12-98	L82U0C3000829	L82U0C3000829	1
Timmins - Ontario	L783	—	—	L82U8D3001017	L82UXD3001018	2
Timmins - Ontario	L839	—	—	L82J8E3001395	L82J8E3001395	1
Timmins - Ontario	L995	—	—	L82JXG3750377	L82JXG3750377	1
Timmins Ontario	LB07	—	—	L82J1J3751005	L82J3J3751006	2
University of Alabama - Alabama	L640	—	—	L82U9B4000141	L82UOB4000142	2
University of Alabama - Alabama	L671	7024	7025	L82U5C4500119	L82U1C4500120	2
University of Alabama - Alabama	L727	7026	7027	L82U4D4500310	L82U6D4500311	2
University of Alabama - Alabama	L787	7028	7029	L82J2E4500507	L82J4E4500508	2
University of Alabama - Alabama	L902	7030	7030	L82J2F4500993	L82J4F4500994	2
University of Alabama - Alabama	L961	7032	7033	L82J7G9775294	L82J9G9775295	2
University of Alabama - Alabama	LA02	7034	7037	L82J8G9775546	L82JXG9775550	4
University of Colorado - Colorado	L627	—	—	S92UXB4000139	S92U6B4000140	2
Walt Disney World - Florida	L763	—	—	S92U0D3001019	S92U4D3001024	6
Welland Ontario - Metrolinx	L866	—	—	L82J9F3001648	L82J9F3001648	1
Welland Ontario - Metrolinx	L933	—	—	L82J1G3750011	L82J1G3750011	1
Welland Ontario - Metrolinx	L991	—	—	L82J9G3750287	L82J9G3750287	1
Welland Ontario - Metrolinx	LA52	—	—	L82J2H3750911	L82J4H3750912	2
Welland Ontario - Metrolinx	LA93	—	—	L82J6H3750913	L82J6H3750913	1
Whitehorse - Yukon	L784	43	43	L82U9D3001057	L82U9D3001057	1
Whitehorse - Yukon	LA04	—	—	L82J2G3750390	L82J4G3750391	2
Whitehorse - Yukon	LB03	—	—	L82J9H9776352	L82J0H9776353	2
Windsor - Ontario	LB24	8025	8026	L82JXJ3751424	L82J1J3751425	2
Windsor Ontario - Metrolinx	L886	570	577	L82J8F3001818	L82J5F3001825	8
Windsor Ontario - Metrolinx	LA56	578	601	L82J5J3751007	L82J0J3751030	24
Woodstock - Ontario	L778	—	—	L82U2D3001014	L82U2D3001014	1
Woodstock - Ontario	L832	—	—	L82J9E3001342	L82J9E3001342	1
Woodstock - Ontario	L923	15-16	15-16	L82J9F3001746	L82J9F3001746	1

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Woodstock - Ontario	LA08	17-08	17-08	L82J3H3750514	L82J3H3750514	1
Woodstock - Ontario	LB04	18-04	18-14	L82J3H9776363	L82J5H9776364	2
York Regional Transit - Ontario	L654	1370	1390	S92U1D3000946	S92U2D3000986	21
York Regional Transit - Ontario	L761	1391	1396	S92U6D3001008	S92UXD3001013	6

**WARNING**

Follow your internal safety procedures.

PROCEDURE

This document is done as full. Level 2 procedure is to be carried out post inspection, if necessary.

The procedure is not intended as an additional maintenance requirement but rather as a clarification of the Nova Bus maintenance manual section 19-401.

It is recommended to inspect the specified junction blocks every 6 months, preferably before and after the winter season.

LEVEL 1

INSPECTION OF JUNCTION BLOCK ASSEMBLIES AND MAINTENANCE CRITERIA

PREPARATION

- 1.1. Park the vehicle on an even surface with transmission in the neutral (N) position and apply the parking brake.
- 1.2. Set the Master Control Switch in the STOP position (see Figure 1).

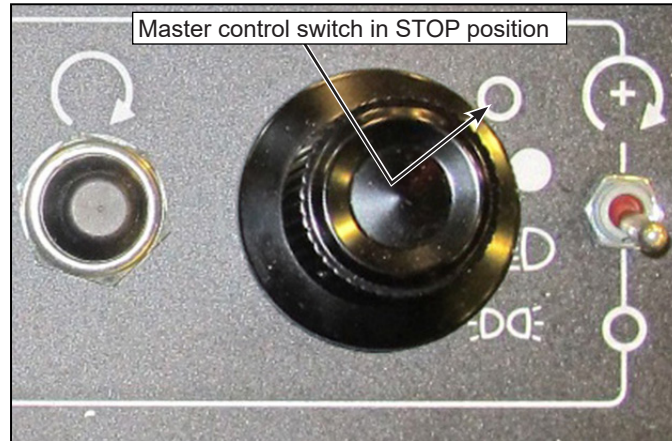


Figure 1 - Master Control Switch in STOP Position

- 1.3. Set the Battery Disconnect Switch in the OFF position (see Figure 2) and properly lock out the switch with a padlock for personnel safety (see Figure 3).

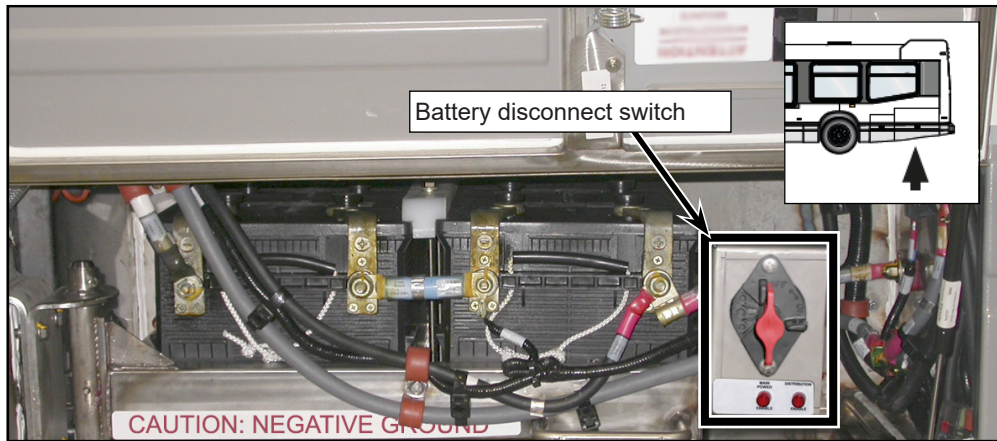


Figure 2 - Battery Disconnect Switch Location



Figure 3 - Battery Disconnect Switch Locked Out in OFF Position



WARNING

Before starting any work on the vehicle, make sure the vehicle is completely and securely stationary. Disconnect the starting circuit on the control box at the rear of the vehicle and place the battery disconnect switch in the OFF position.



CAUTION

VEHICLE HOISTING. Follow your internal safety procedures. Use appropriate safety equipment for your protection. See section 18 : HOISTING AND TOWING in the Nova LFS Maintenance manual for more information.

- 1.4. Raise the vehicle.
- 1.5. Locate the four junction blocks in the engine compartment at rear of the vehicle (see Figure 4).

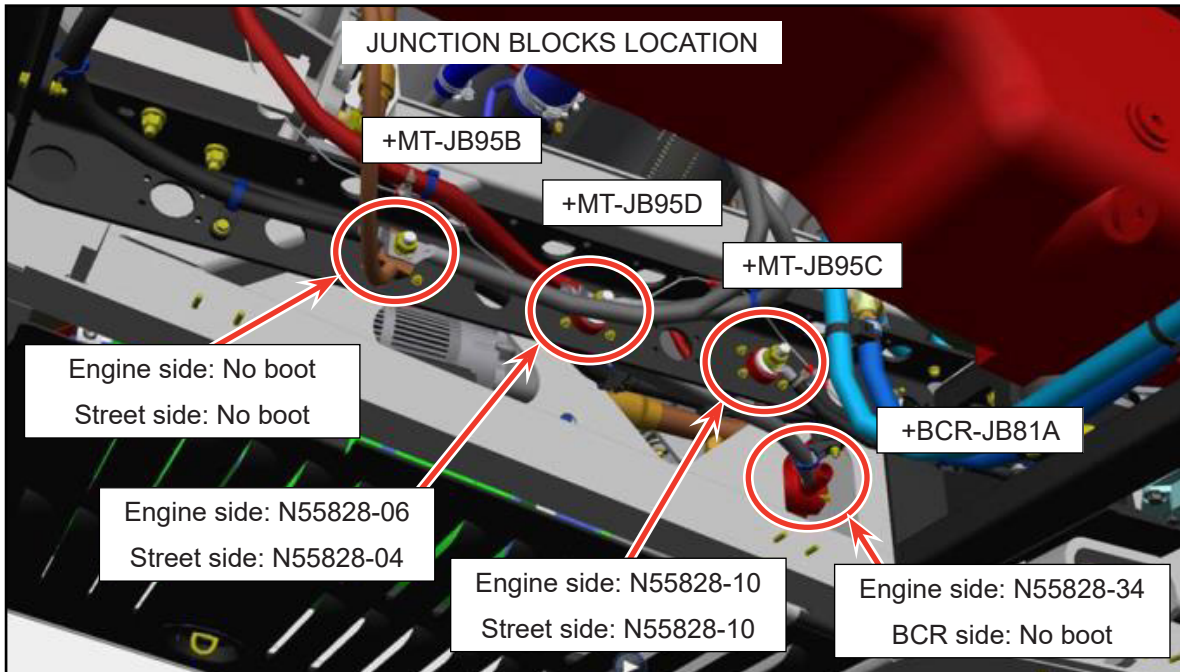


Figure 4 - Junction Blocks Location and Boot Part Numbers

- 1.6. Open the cap of the protective boot (if present) to have access to the stud and mounting hardware on the junction block.
- 1.7. Inspect the four junction blocks and the corresponding hardware (one at a time) for corrosion and salt bridging.



NOTE

Confirm the presence of the junction block protective boots and inspect each one for any significant damage that might compromise electrical safety (risk of short circuit between each positive junction block and chassis ground). If any protective boot is missing or replacement is required, please refer to the Level 2 "Replacement of Damaged or Missing Protective Boots" section. See Figure 4 for the protective boot part numbers.

- 1.8. Refer to following instructions for the maintenance criteria.
- a. **No maintenance recommended:** No maintenance is required, if the junction block is found with minimal build-up of road dirt, salt and particles and with corrosion preventative product intact (see Figure 5 & Figure 6).

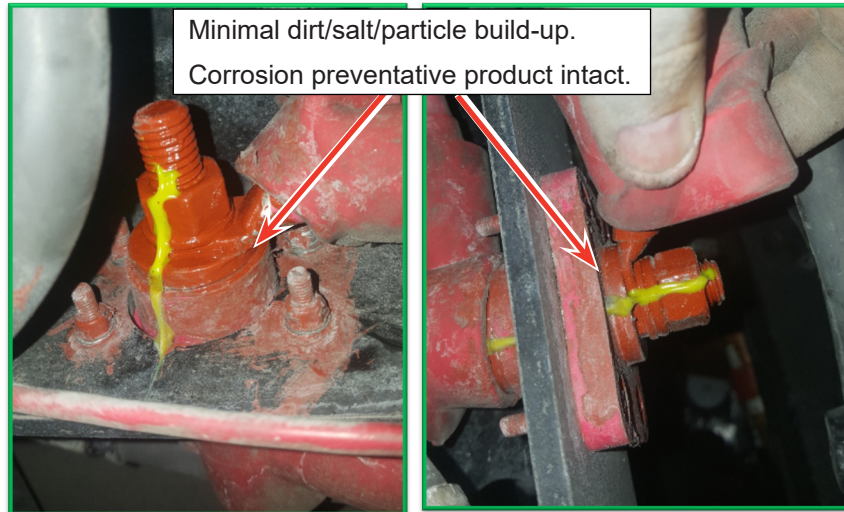


Figure 5 - No Maintenance for Junction Blocks with **DOLPH ER-41/EB-41** Corrosion Preventative Product

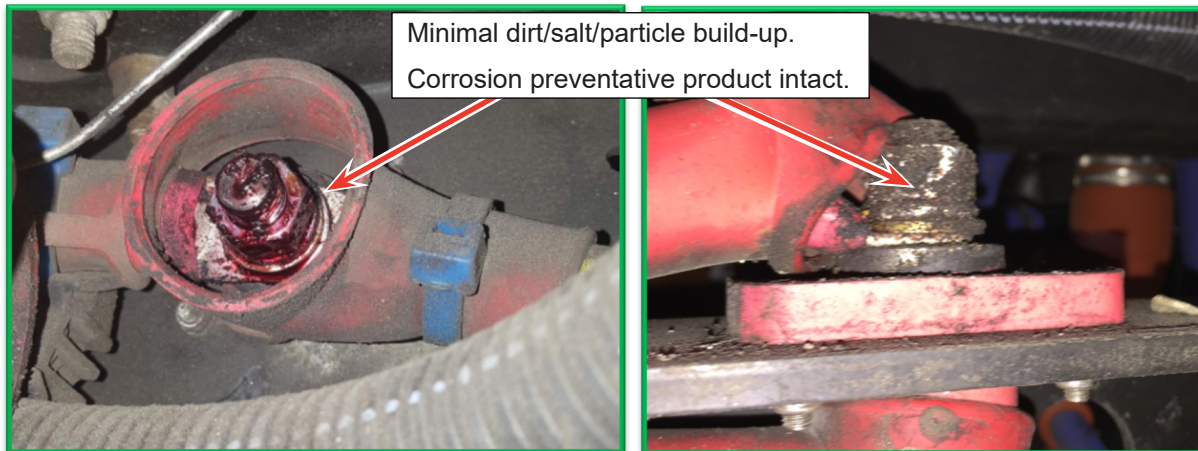


Figure 6 - No Maintenance for Junction Blocks with **NOCO NCP-2/ Maxicoat** Corrosion Preventative Product

b. Maintenance recommended:

1. If the junction block is found with moderate build-up of road dirt, salt and particles, clean the build-up and re-apply the corrosion preventative product (see Figure 7 and Figure 8).

Please refer to the Level 2 "**Surface Cleaning and Re-application of Corrosion Preventative Product**" for detailed instructions.



Figure 7 - Need of Maintenance for Junction Blocks with **DOLPH ER-41/EB-41** Corrosion Preventative Product

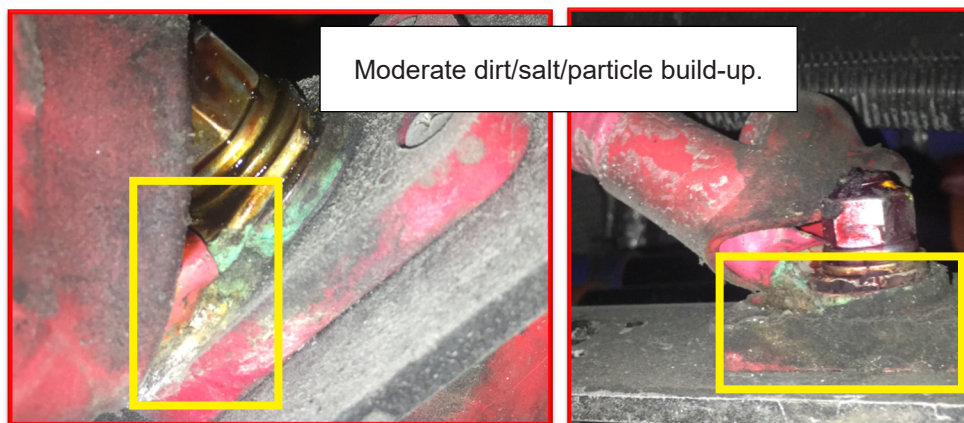


Figure 8 - Need of Maintenance for Junction Blocks with **NOCO NCP-2/ Maxicoat** Corrosion Preventative Product

2. If the junction block is found with excessive corrosion and/or evidence of salt bridging damage, remove and discard the old junction block and the corresponding hardware and replace with a new junction block assembly (see Figure 9).

Please refer to the Level 2 "**Replacement of a Junction Block Assembly**" for detailed instructions.

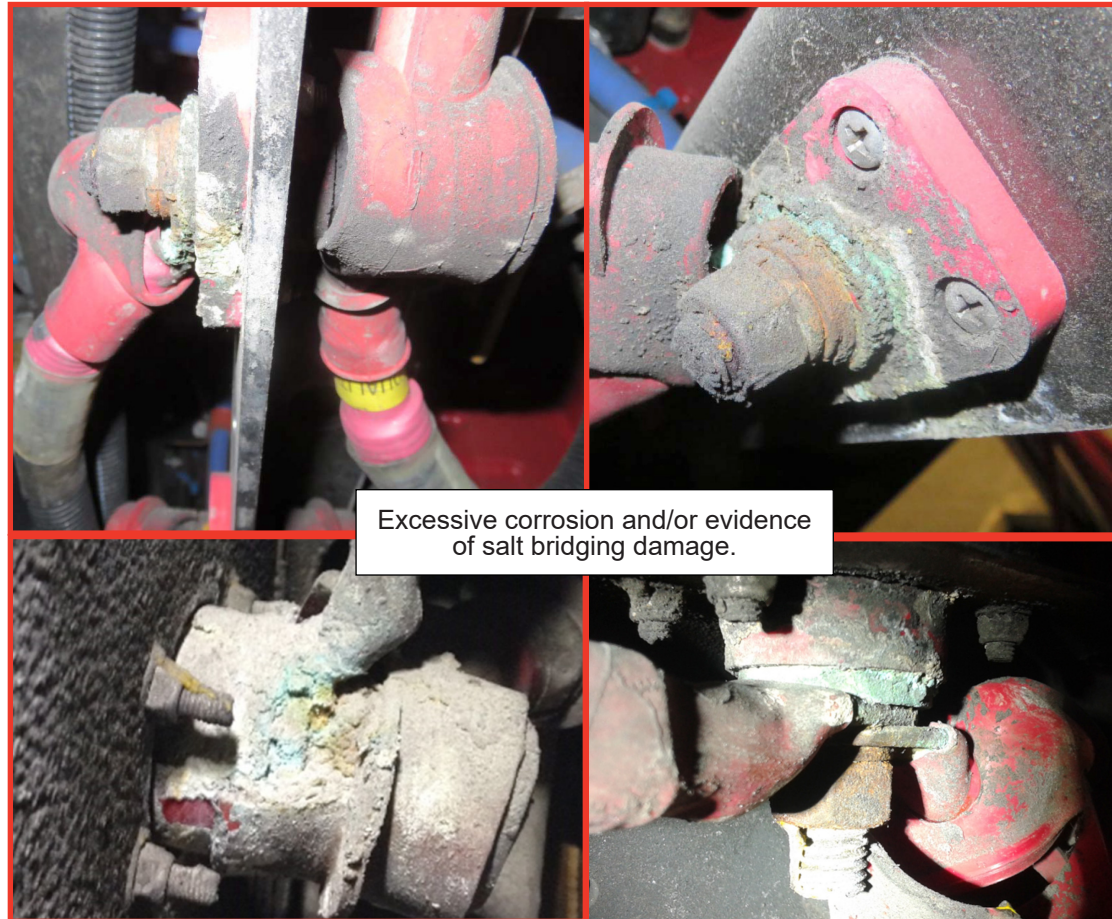


Figure 9 - Need of Maintenance for Junction Blocks with **DOLPH ER-41/EB-41/NOCO NCP-2/ Maxicoat** Corrosion Preventative Product

- 1.9. Repeat the steps 1.7 and 1.8 for all the remaining junction block locations.
- 1.10. Lower the vehicle.
- 1.11. Set the Battery Disconnect Switch in the ON position.
- 1.12. Set the Master Control Switch in the ON position.
- 1.13. The vehicle may be returned to service.

LEVEL 2**SURFACE CLEANING AND RE-APPLICATION OF CORROSION PREVENTATIVE PRODUCT**

- 2.1. Move and secure back the cap of the protective boot (if present) with a G5007996 tie-wrap to have access to the stud and mounting hardware on the junction block.
- 2.2. Clean the surface of the junction blocks using a pressure washer on a lower setting to remove the build-up of road dirt, salt and particles. Use a higher setting if removal of particles is not adequate.
- 2.3. Vaporize the NPCHM00023 cleaner on the surfaces to be covered (see Figure 10), and with a dry cloth clean the surface to remove any unwanted particle and/or grease deposits. Allow the product to evaporate completely. The use of a nylon brush is permitted to clean the surfaces.

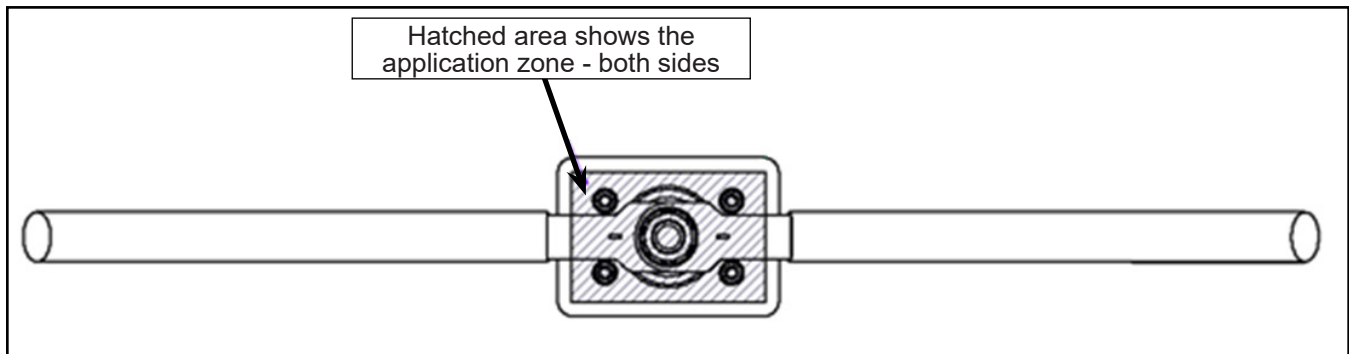


Figure 10 - Junction Block Assembly Showing Corrosion Preventative Product Application Area on Both Sides

- 2.4. After the surface cleaning, corrosion preventative product **MUST** be re-applied on both sides of the junction block (see Figure 10).
- 2.5. Follow the instructions from step 2.20 to 2.22 for application of the corrosion preventative product.

**NOTE**

It should not be necessary to re-apply the DOLPH ER-41 and EB-41 insulating varnish products before a minimum lifetime of 6 years. However, the NOCO NCP-2 and the Maxicoat corrosion preventative product must be re-applied as needed.

- 2.6. Repeat steps 2.1 to 2.5 for each affected junction block locations.

REPLACEMENT OF A JUNCTION BLOCK ASSEMBLY

REMOVAL OF THE OLD JUNCTION BLOCK ASSEMBLY

- 2.7. Remove and discard only the junction block with excessive corrosion and/or evidence of salt bridging damage (one at a time) and the corresponding hardware.
- 2.8. Remove and retain electrical cable(s) attached to the respective junction block.



CAUTION

Avoid removing the tin plating protecting the copper base metal while cleaning the cable terminals.

- 2.9. Remove and retain the protective boot if present.
- 2.10. Clean each cable terminal carefully.



NOTE

Use Liquid Tin only if the cable terminal base metal (copper) is exposed after cleaning.

- 2.11. If the cable terminal tin plating is absent (copper is exposed) apply the Liquid Tin plating solution N8904593 to re-tin the copper surface (see Figure 11).

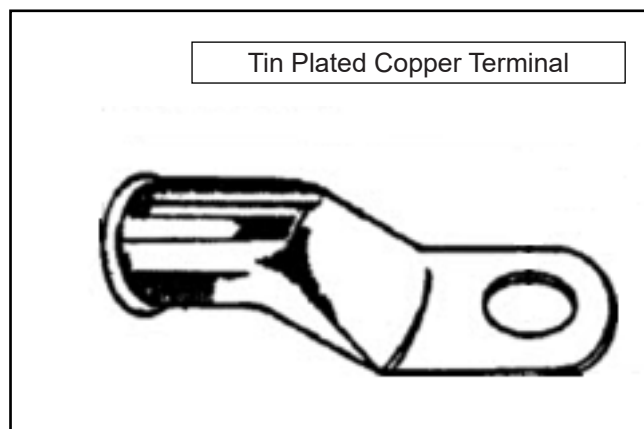


Figure 11 - Typical View of Tin Plated Copper Terminal

- 2.12. Insert the protective boot into the cable, if it was present and removed previously.

INSTALLATION OF THE NEW JUNCTION BLOCK ASSEMBLY



CAUTION

Always torque all hardware to specified torque values **BEFORE** applying the corrosion preventative products. Applying these products prior to torque operations can yield unwanted high-resistivity connections.

- 2.13. Install the new junction block N86271-01 (red) or N86271-02 (black) (see Figure 4 for junction block locations) with their four mounting screws and torque to the specified values (see Figure 12).
- 2.14. Put the cable terminals back in place on the junction block stud seating.
- 2.15. Insert the N86419 - washer flat 1/2" tin-plated brass (one side at a time) as shown in Figure 12.

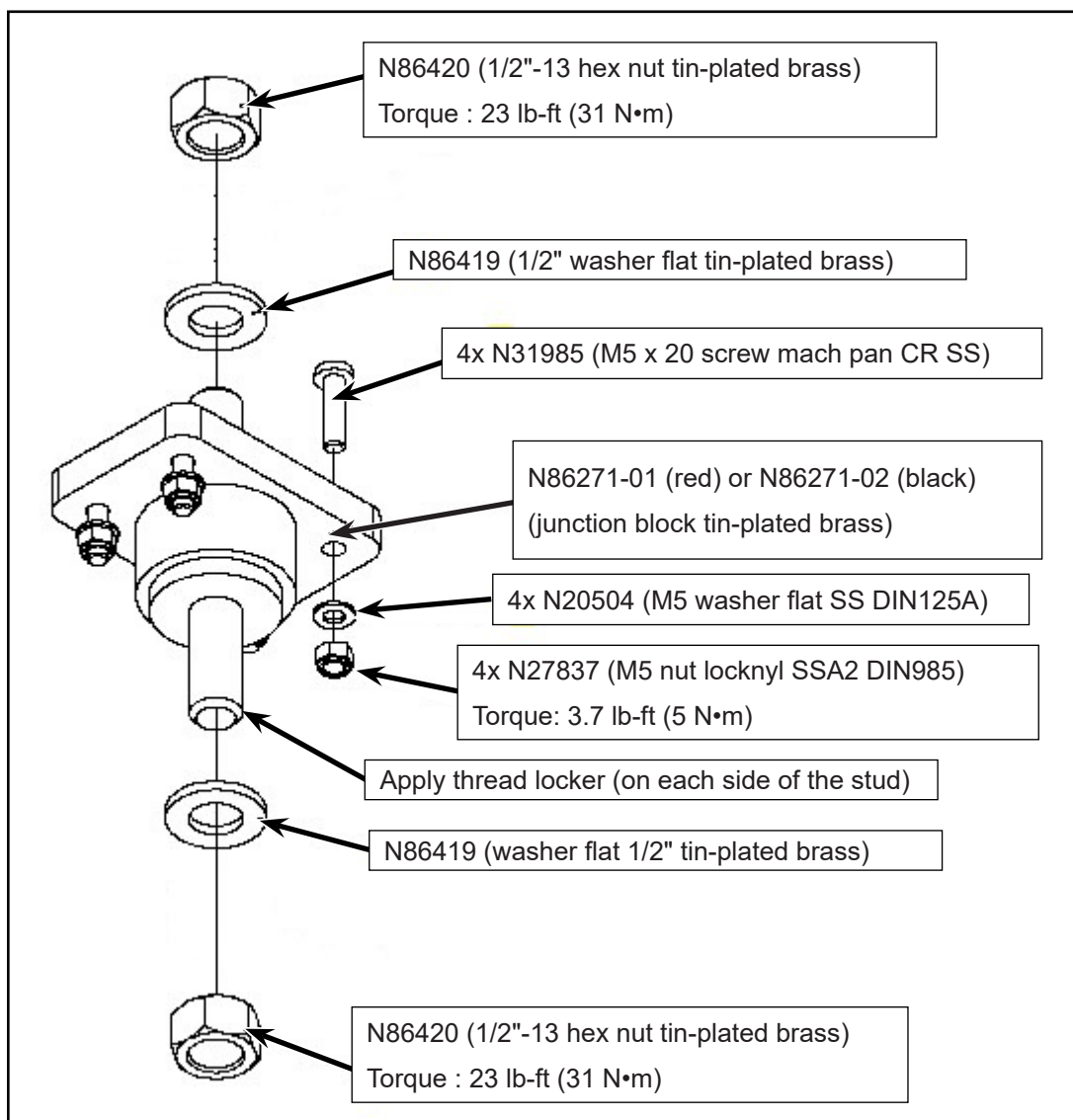


Figure 12 - Exploded View of the New Junction Block Assembly

- 2.16. Apply N91901 thread locker blue in solid form (9g stick) or equivalent on the junction block stud threads ONLY (both sides, one side at a time) and then insert the N86420 1/2"-13 tin-plated brass hex nut (see Figure 12). To avoid contaminating / degrading the high-current cable terminals and junction block electrical contacts, do NOT use thread locker blue in LIQUID form as this product variant could wick or drip on the contacts surface.
- 2.17. Torque the N86420 - nut 1/2"-13 tin-plated brass to the specified values, one side at a time (see Figure 12).

APPLICATION OF THE CORROSION PREVENTATIVE PRODUCT

- 2.18. **Surface preparation:** This is to ensure the proper application of the corrosion preventative product. Use NPCHM00023 brake & part cleaner.
- Move and secure back the cap of the protective boots with G5007996 tie-wraps to have access to the mounting and stud hardware on the junction blocks.
 - Vaporize the NPCHM00023 cleaner on the surfaces to be covered (see Figure 13), and with a dry cloth clean the surface to remove any unwanted particle and/or grease deposits. Allow the product to evaporate completely.
- 2.19. After the surface cleaning, corrosion preventative product MUST be applied on both sides of the junction block (see Figure 13).

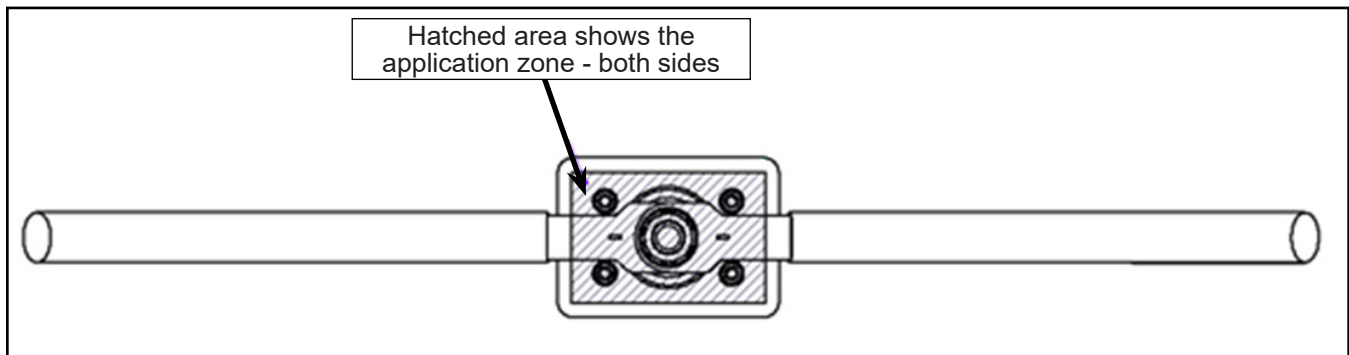


Figure 13 - Junction Block Assembly Showing Corrosion Preventative Product Application Area on Both Sides

- 2.20. Depending on which junction block and on which side, different corrosion preventative products are applied, as indicated in the Shop Supplies material list (see Figure 14).
- Dolph's product (preferred) :
 - N86801 (DOLPH EB-41) to be used on both sides of the BLACK grounding junction block (+MT-JB95B).
 - N86800 (DOLPH ER-41) to be used on both sides of the RED positive 24V junction blocks (+MT-JB95C, +MT-JB95D) but ONLY on the engine side of +BCR-JB81A.
 - N67314 (NOCO NCP-2 – Suitable alternative for the junction blocks) to be used on both sides of each junction blocks and also to be used on the Battery Compartment (BCR) side of +BCR-JB81A.
 - N35450 (Maxicoat – Suitable alternative for the junction blocks) to be used on both sides of each junction blocks.

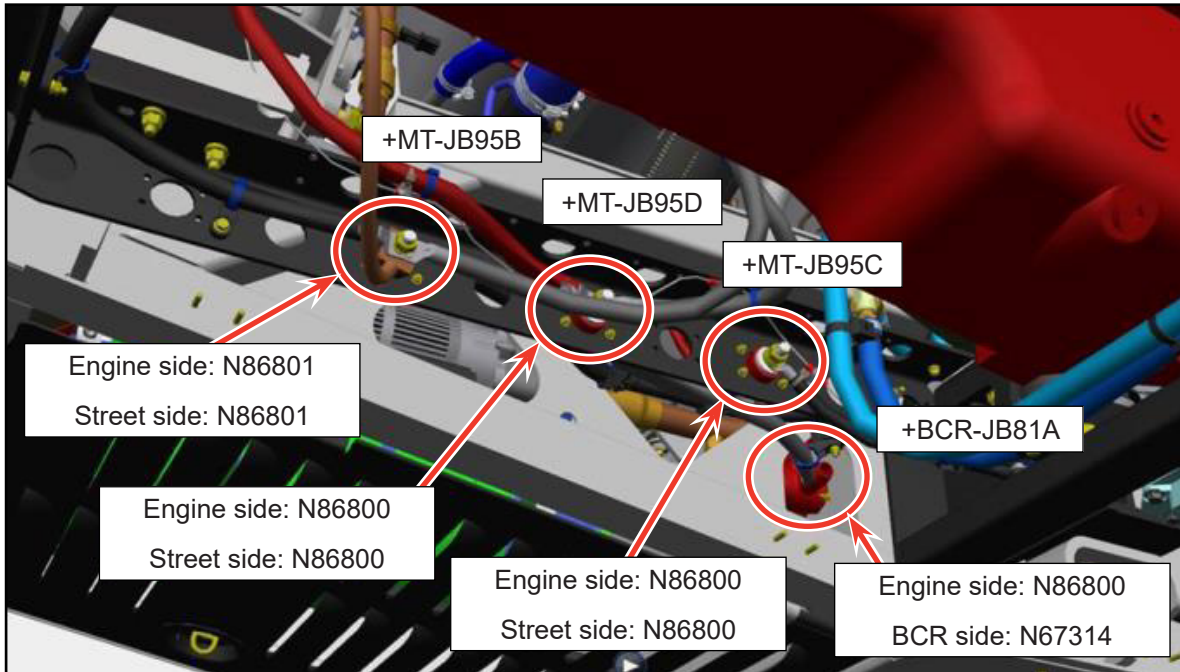


Figure 14 - Corrosion Preventative Products Application Requirements



NOTE

The corrosion protection product cans must be shaken before each use (make sure the lid is properly closed to avoid splashing).



NOTE

Corrosion preventative product **MUST** be applied only on clean and dry surfaces, free of any grease. Make sure to completely cover the exposed metallic surfaces for both the cable terminals and the stud or junction block. Make sure the exposed metal under the terminal is also covered (see Figure 15).

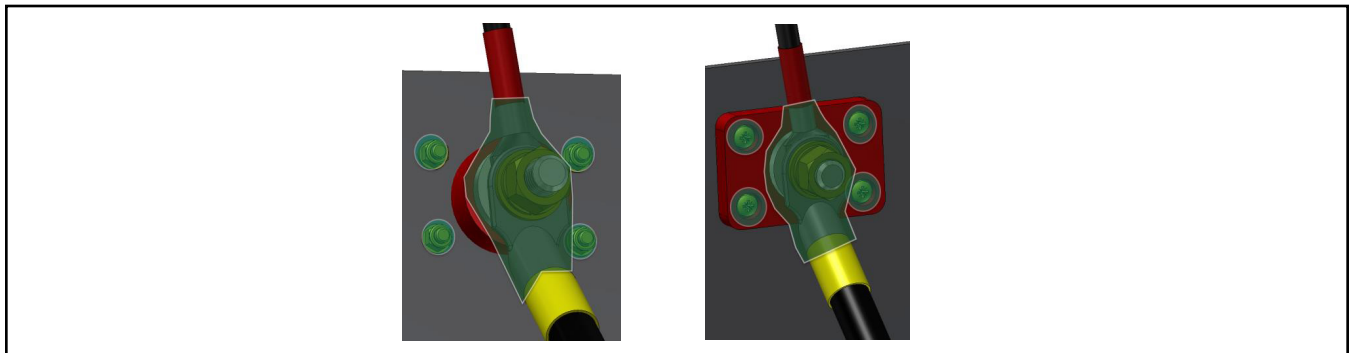


Figure 15 - Figures showing the Application of Corrosion Preventative Product Inside the Marked Perimeters

- 2.21. Application procedure for DOLPH ER-41 and EB-41 (N86800 & N86801 respectively) corrosion preventative products (see Figure 16).
- Dip the brush in the container. Swipe excess product from the brush using the container edges. Apply a thin layer of coating to the exposed metallic surfaces of the electrical connection. Try to avoid creating drips.
 - Apply 2 coats total. Allow 15 mins of drying time between each coat application. Allow another 15 mins of drying time before cutting off the tie-wrap and reinstalling back in place the protective boot to properly cover the junction stud connection.

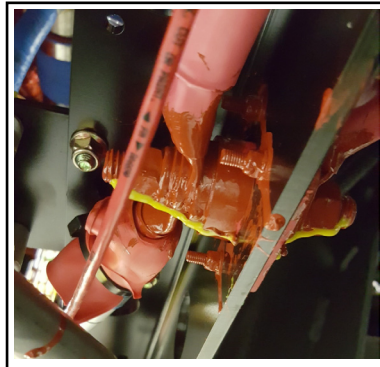


Figure 16 - Application of **DOLPH ER-41 & EB-41** Corrosion Preventative Products

- 2.22. Application procedure for NOCO NCP-2 (N67314) and Maxicoat (N35274) corrosion preventative product.
- Apply a single coat of the NOCO NCP-2/Maxicoat to the exposed metallic surfaces of the electrical connection.
 - No wait time required.
- 2.23. Repeat sequence of steps from from step 2.13 to step step 2.22 for the remaining affected junction block locations.
- 2.24. Ensure all the junction block installations are correct.

REPLACEMENT OF DAMAGED OR MISSING PROTECTIVE BOOTS

- 2.25. Insert a new protective boot into the cable if it was found damaged or missing during inspection (see Figure 17).

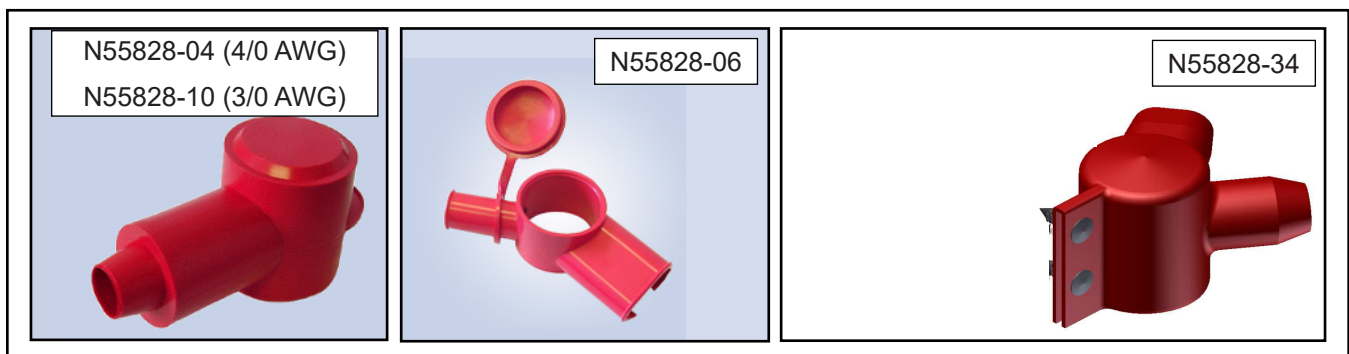


Figure 17 - Typical View of Different Protective Boots

