

REFERENCE:	Nova Bus Manuals
SECTION:	09 : Alternator and voltage regulator
RS N°:	MQR 7621-2758
EFFECTIVE IN PROD.:	LF51-033
TC RECALL N°:	N/A
NHTSA RECALL N°:	24v203

APPLICATION DEADLINES: N/A CLAIM
REFERENCE NUMBER: SR5570

SUBJECT:	Alternator power cables
JUSTIFICATION:	The alternator power cable nut may not have been tightened properly.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Inspection of the alternator terminal hardware for proper stack up and torque.	Nova Bus	Nova Bus	30 min
2	Replace damaged cables if required.	Nova Bus	Nova Bus	1h

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
-	-	-	-
LEVEL 2 (only if required**)			
1	N101828-05	-	CABLE ASSY C1401 4/0 AWG BK-RD (positive)
1	N101827-05	-	CABLE ASSY C1400 4/0 AWG BK (negative)
1	N8951904	-	EMP alternator stud hardware kit

Materials will be available within 63 days once your order has been placed.

To order, please contact novabus.parts@volvo.com

Or by phone for CANADA 1-800-771-6682, for USA 1-877-999-8808

Specify document number, quantity of parts required and shipping address.

**The material identified in Level 2 is to be ordered only for vehicles that meet the criteria defined in Level 1.

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	2024AL03	Initial release	André Pelletier

APPROVED BY:

PAGE 1 OF 9

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
New York City Transit - NYCT - New York	LD06	8755	8758	L82J3L9	[REDACTED]	4
New York City Transit - NYCT - New York	LD08	8759	8963	L82J5M9	[REDACTED]	205
Trimet - Portland, Oregon	LD14	4501	4501	S92J3M9	[REDACTED]	1
Trimet - Portland, Oregon	LD15	4502	4531	S92J6M9	[REDACTED]	30
Chicago Transit Authority - CTA - Illinois	LD75	—	—	L82J0M9	[REDACTED]	1
Maryland Transit Administration - MTA - Maryland	LD82	21001	21070	L82J2M9	[REDACTED]	70
San Juan Puerto Rico – AMA	LE06	2021-11	2021-17	L82JXM9	[REDACTED]	7
Ames Transportation Agency - Iowa	LE35	6149	6149	S92J2M9	[REDACTED]	1
Maryland Transit Administration - MTA - Maryland	LE53	22001	22070	L82JXN9	[REDACTED]	70
Mack Defense	LE68	—	—	L82J6N9	[REDACTED]	4
Ann Arbor Area Transportation Authority Michigan - AAATA	LE73	2200	2207	L82JXN9	[REDACTED]	8
Ames Transportation Agency - Iowa	LE80	6150	6150	S92J0N9	[REDACTED]	1
San Juan Puerto Rico – AMA	LE83	2022-01	2022-11	L82J0N9	[REDACTED]	11
New York City Transit - NYCT - New York	LE84	8964	8964	L82J7N9	[REDACTED]	1
New York City Transit - NYCT - New York	LE84	8965	8965	L82J9N9	[REDACTED]	1
New York City Transit - NYCT - New York	LE84	8966	8966	L82J0N9	[REDACTED]	1
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New York City Transit - NYCT - New York	LE84	9002	9002	L82J5P9	[REDACTED]	1

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
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New York City Transit - NYCT - New York	LE84	9005	9005	L82J5P9	[REDACTED]	1
New York City Transit - NYCT - New York	LE84	9007	9007	L82J9P9	[REDACTED]	1
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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
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New York City Transit - NYCT - New York	LE84	9061	9061	L82J8P9	L82J8P9	1
New York City Transit - NYCT - New York	LE84	9063	9063	L82J1P9	L82J1P9	1
New York City Transit - NYCT - New York	LE84	9064	9064	L82J4P9	L82J4P9	1
New York City Transit - NYCT - New York	LE84	9067	9067	L82J0P9	L82J0P9	1
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New York City Transit - NYCT - New York	LE84	9093	9093	L82J5P9	L82J5P9	1
Rochester New York - RTS	LE92	2221	2247	L82J5N9	L82J8N9	27
Puerto Rico Highway and Transportation Authority – PRHTA	LF14	23-01	23-09	L82J0P9	L82JXP9	9
Rochester New York - RTS	LF26	2301	2309	L82J3P9	L82J2P9	9
San Juan Puerto Rico – AMA	LF41	2022-12	2022-12	L82J8P9	L82J8P9	1
Maryland Transit Administration - MTA - Maryland	LF46	23001	23001	L82J1P9	L82J1P9	1
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Maryland Transit Administration - MTA - Maryland	LF46	23021	23021	L82J5P9	L82J5P9	1
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Maryland Transit Administration - MTA - Maryland	LF46	23025	23025	L82J7P9	L82J7P9	1
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CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
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Maryland Transit Administration - MTA - Maryland	LF46	23030	23030	L82J6P9	[REDACTED]	1
Maryland Transit Administration - MTA - Maryland	LF46	23031	23031	L82J8P9	[REDACTED]	1
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Maryland Transit Administration - MTA - Maryland	LF46	23033	23033	L82J1P9	[REDACTED]	1
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Maryland Transit Administration - MTA - Maryland	LF46	23040	23040	L82J9P9	[REDACTED]	1
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New York City Transit - NYCT - New York	LF51	9099	9099	L82J4P9	[REDACTED]	1

**WARNING**

FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

PROCEDURE

- 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. Set the battery disconnect switch in the battery compartment to the **off** position.

**CAUTION**

Wait 10 minutes after the battery disconnect switch has been placed in the off position. This step will maintain the electronic circuit's discharge path and protect the engine's electronic control module (ECM).

- 1.4. Disconnect all cables from the batteries positive terminals.
- 1.5. Disconnect all cables from the batteries negative terminals.
- 1.6. To get access to the alternator power cables terminals from the inside of the vehicle, remove the bolts and lift the mid section of the rear cross seat. Secure it for the duration of the repair.

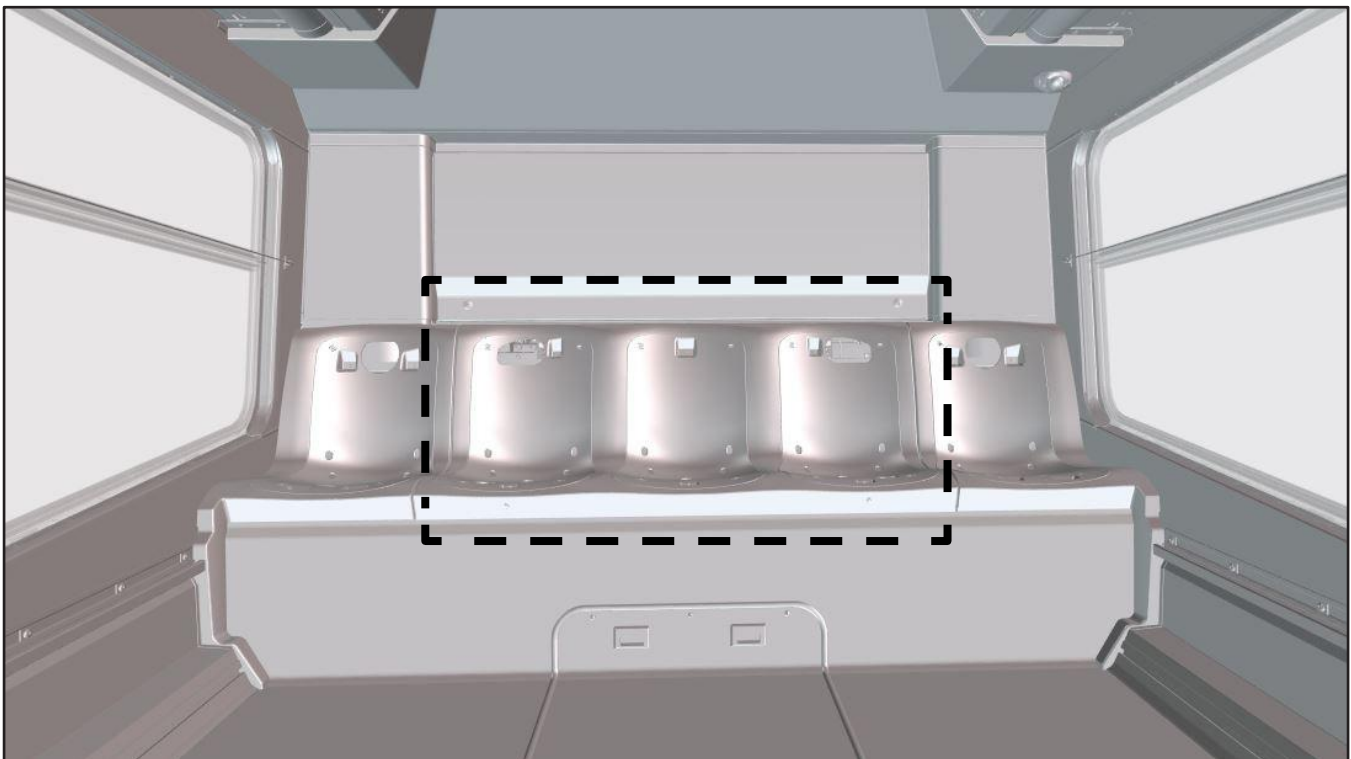


Figure 1 - Lift the Rear Cross Seat

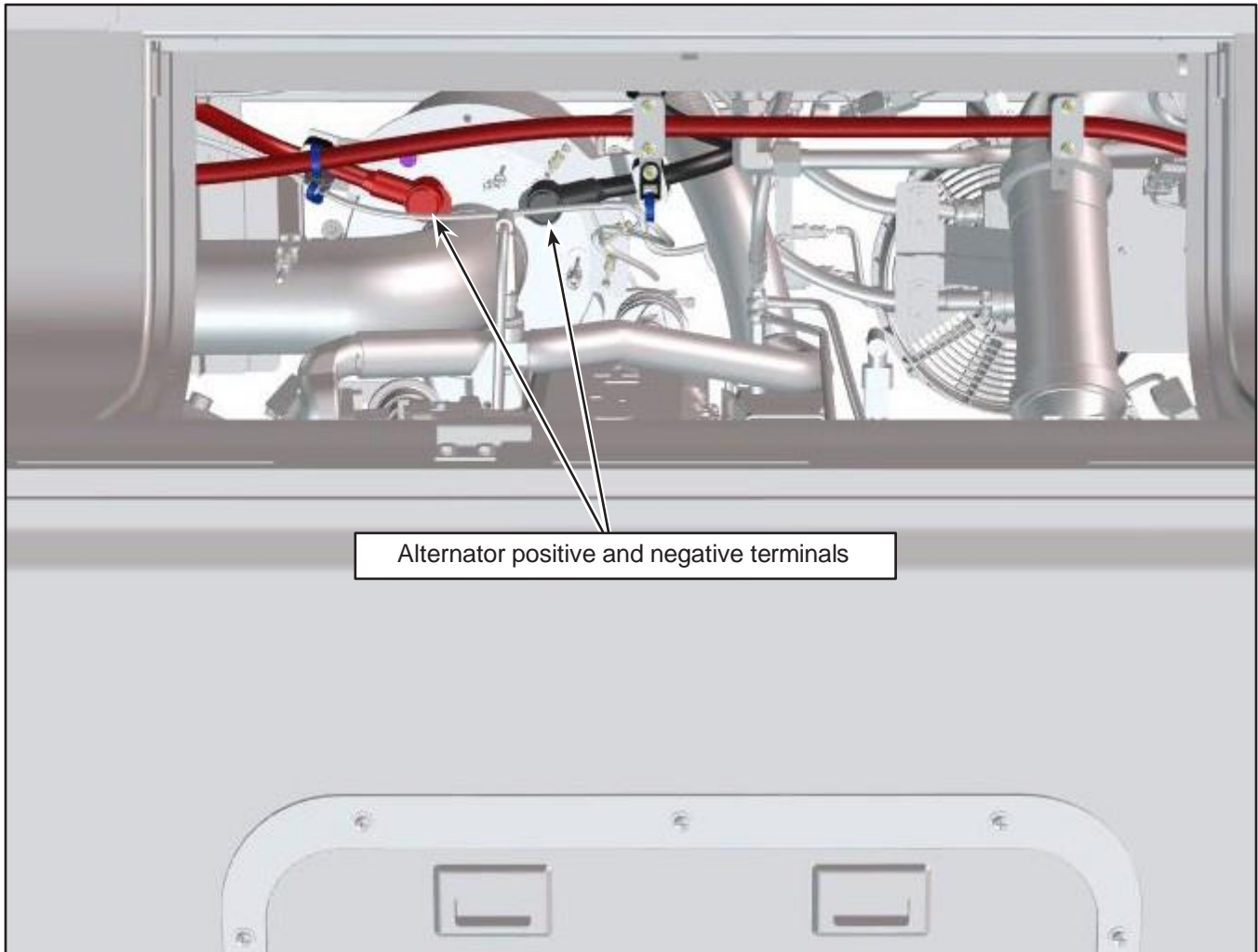


Figure 2 - Alternator Power Cables Location, View From the Cross Seat Access

- 1.7. Move the protective boots and inspect the positive and the negative cables to make sure there are no signs of arcing near the alternator terminals. If there is damages or insulation looks bubbled, then replace the cable. See the level 2 on page 9.

1.8. Verify the correct stacking of the hardware for each terminal. See the next figure.

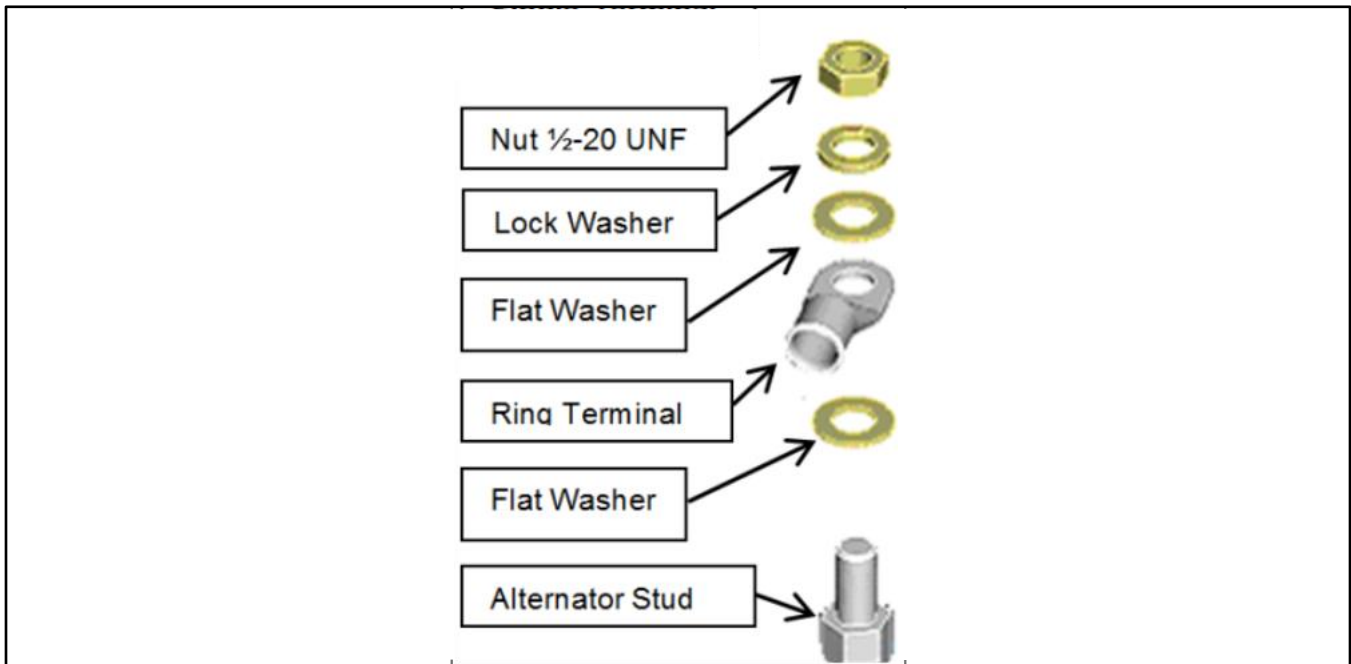


Figure 3 - Verify the Correct Stacking

- 1.9. If the stacking is correct, apply a torque of 32 to 35 lb-ft (41 to 47 N·m) to the nut. Apply a torque seal then NCP2 corrosion preventative like N67314 to the exposed metal.
- 1.10. If the stacking is incorrect. Use a brake cleaner, like N8951729 or equivalent, to remove any corrosion preventative on the terminals, flat washers and alternator studs. Do the assembly as per the figure 3. Apply a torque of 32 to 35 lb-ft (41 to 47 N·m) to the nut. Apply a torque seal then NCP2 corrosion preventative like N67314 to the exposed metal of the terminals, cables, studs and hardware.
- 1.11. Reinstall the boot cover of each terminal.
- 1.12. Reinstall the cross seat section, applying a torque of 17 ± 1.5 lb-ft (23 ± 2 N·m) to the screws.



WARNING

Connect the batteries after the repair is completed. See your manual section 16: Batteries for the procedure.

- 1.13. The vehicle can return to service.

LEVEL 2: CABLE REPLACEMENT

- 2.1. If any signs of arcing or damaged were found, replace the cable according to the material list level 2 on page 1.
- 2.2. Install the new cable, refer to the next figure.
- 2.3. Once the new cable is installed, refer to the figure 3 and the step 1.9 for the proper stacking and torque on the alternator studs and NCP2 application. Then finish the level 1 procedure steps 1.11 to 1.13.

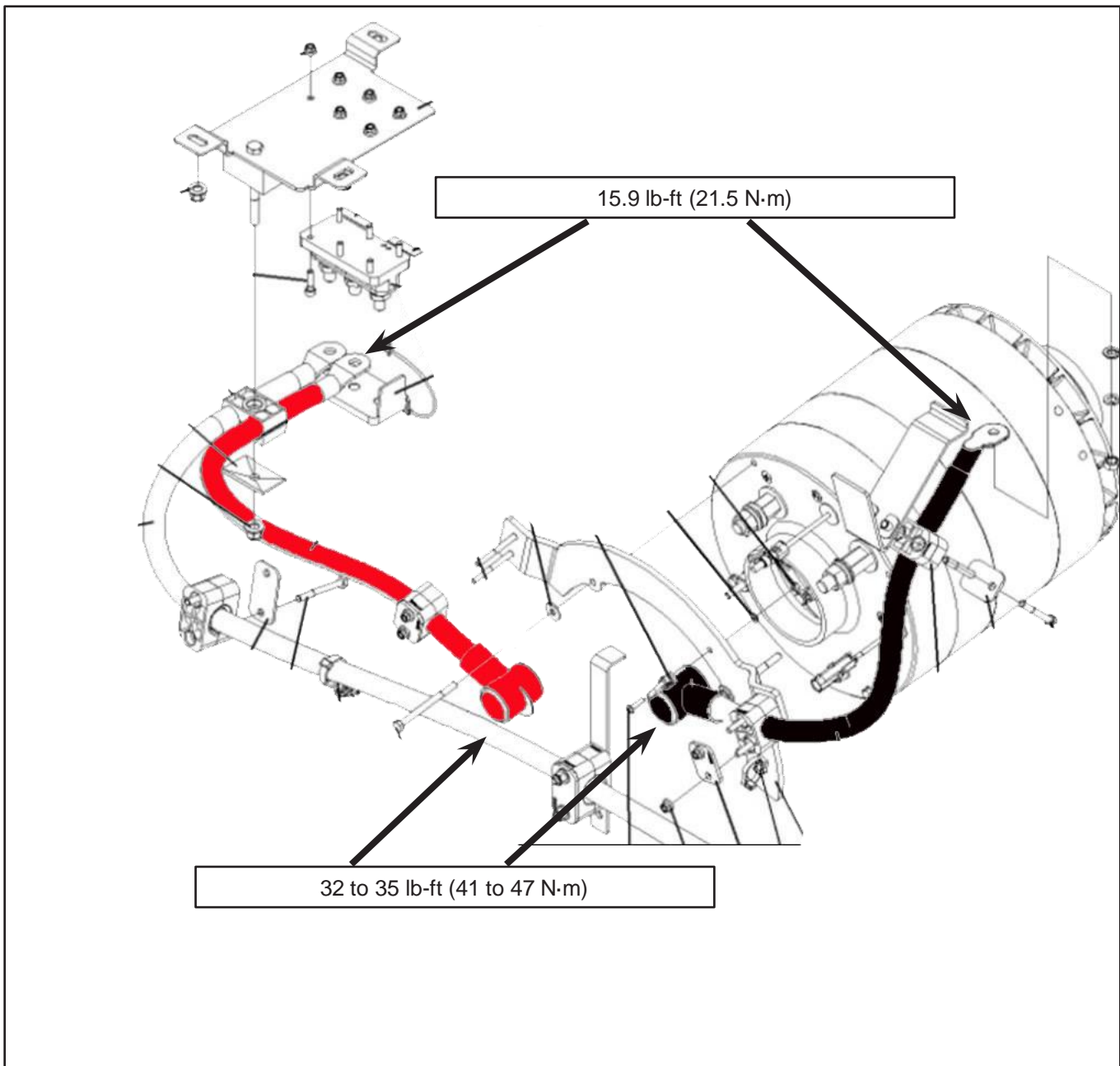


Figure 4 - Exploded View