



TECHNICAL SERVICE INFORMATION BULLETIN

TSIB 22-08 Rev A		September 26, 2022
TO:	All Operators	
TITLE:	<i>Application of silicone paste on charge rails to avoid isolation faults</i>	
APPLICABILITY:	All New Flyer/MCI E-buses equipped with overhead charging.	

Issue - It has been determined that water/residues collecting on the surfaces of overhead charge rails may create an isolation fault when attempting to charge during heavy rains. If an isolation fault is present the charger will automatically shutdown and will not charge the vehicle. Accumulation of a continuous water film on the surfaces of overhead charge rails may create a ground path for electrical current between the positive rail and the ground rail, causing the isolation fault.

Remedy – Application of a special silicone paste to the charge rails every 3 months of service will result in the water beading and draining off the charge rails. This beading will eliminate a continuous electrical path between the positive and ground rails, and elimination of associated isolation faults when charging.

⚠ Danger: The work detailed in the following steps involves working closely to HV connections. Follow all safety procedures as mentioned in the New Flyer service manual.

1. Turn the MRS to the off position and wait 5 minutes before proceeding to the next step.
2. Turn the main battery disconnect and HV interlock switch to the “OFF” position.
3. Perform the Lock Out Tag Out procedure.
4. Perform the applicable de-energizing procedure before moving to the next step in this TSIB.

☞ **NOTE: Refer to the Lockout/Tagout Procedure and De-Energizing Procedures in the New Flyer Service Manual.**

☞ **NOTE: Use commercially available lock out equipment and tags being sure to follow any local laws or workplace procedures.**

5. Ensure steps 3 and 4 are completed before moving to the next steps.
6. Gain access to the roof of the bus, ensure that appropriate fall protection PPE is used, and appropriate safety procedures are followed.
7. Ensure there is no voltage present between HV positive rail & HV negative rail, HV positive rail to ground & HV negative rail to ground.
8. Clean isolation blocks as shown in figure 1 with isopropyl alcohol solution- Item 1 (NF part number- 134336).
9. Apply single layer coating of Silicone paste- Item 2 (NF part number- 960800) on the isolator block as shown in figure.
10. For application of silicone paste on pantograph charge rails follow charger manufacturer service manual & check if silicone paste is required on pantograph rails.
32. Perform the applicable Energizing Procedure.

☞ **NOTE: Refer to the Energizing Procedure in section 1 of your Preventive Maintenance Manual or section 9 of your Service Manual.**

Maintenance interval: Every 3 months

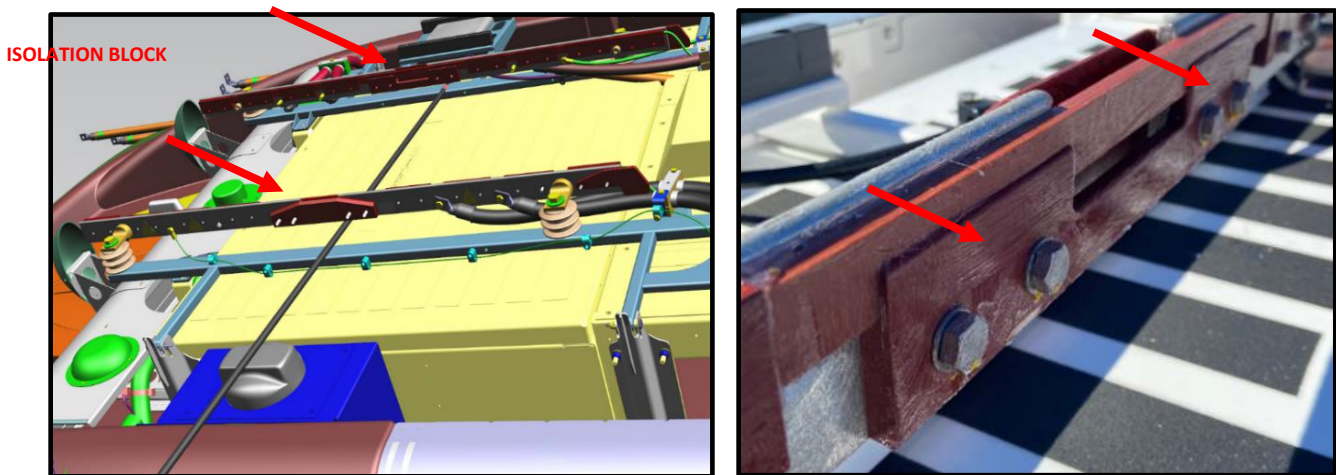


Figure 1: Application of Silicone paste on Isolator Block



Item 1- Isopropyl alcohol - NF part number- 134336

Item 2-Silicone paste - NF part number- 960800

DESCRIPTION: SILICONE PASTE-P
MATERIAL: TRANSLUCENT, WATER REPELLENT PASTE
ELECTRICALLY INSULATED
SPEC: DIELECTRIC STRENGTH 20 KV/mm, IEC 60234-1

Direct all inquiries regarding this bulletin to:

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New Flyer | MCI