



INSTRUCTION TO SERVICE

| ITS: 61338 | | May 25, 2025 |
|-----------------|---|--------------|
| SECTION: | 260-BATTERY COMPARTMENT | |
| SUBJECT: | REWORK-HV DC CNTCR 250A | |
| ISSUE: | Contactors mounted incorrectly causing 250A fuse fail | |
| SUMMARY: | Updated HV DC charge box contactors to replace the existing GIGAVAC with new RINCON contactor. The main advantages are: 1. Bi-directional power switching instead on one direction | |

ITS61338

| Ref. NHTSA Recall No. | Ref. Transport Canada Recall No. |
|-----------------------|----------------------------------|
| Not Applicable | Not Applicable |

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.



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NEW FLYER

⚠ WARNING:

Only trained personnel shall supervise and perform High Voltage system testing, checkout and troubleshooting. Two personnel (one called the Checker & the other called Monitor/Recorder) shall perform Checkout Procedures, together, to ensure safety of themselves, others nearby & for the protection of vehicle & property. Refresher training shall be provided to these personnel on a regular basis and when new systems are to be checked by them. The training of the personnel shall consist of:

- This rework is to be performed only by personnel who have successfully completed the new flyer high voltage safety training and with the necessary personal protective equipment.
- High voltage safety guidelines & procedures P/N 532295 must be followed when completing installation.

1. SAFETY PROCEDURE

- 1.1. Turn the master run switch to the off position and wait 5 minutes before proceeding.
- 1.2. Turn the 12/24V battery disconnect and HV Interlock switch to the “OFF” position.
- 1.3. Lock and tag the electrical system of the bus out and retain the key. See Figure 1.
- 1.4. Install a Lockout/Tagout Steering wheel cover as require.

👉 NOTE: Refer to the Lockout/Tagout Procedure in section 1 of your Preventive Maintenance Manual or section 9 of your Service manual for additional information.

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

👉 NOTE: Refer to New Flyer High Voltage Safety Guidelines and Procedures Document 532295 when completing installation or service work on high voltage power cables.

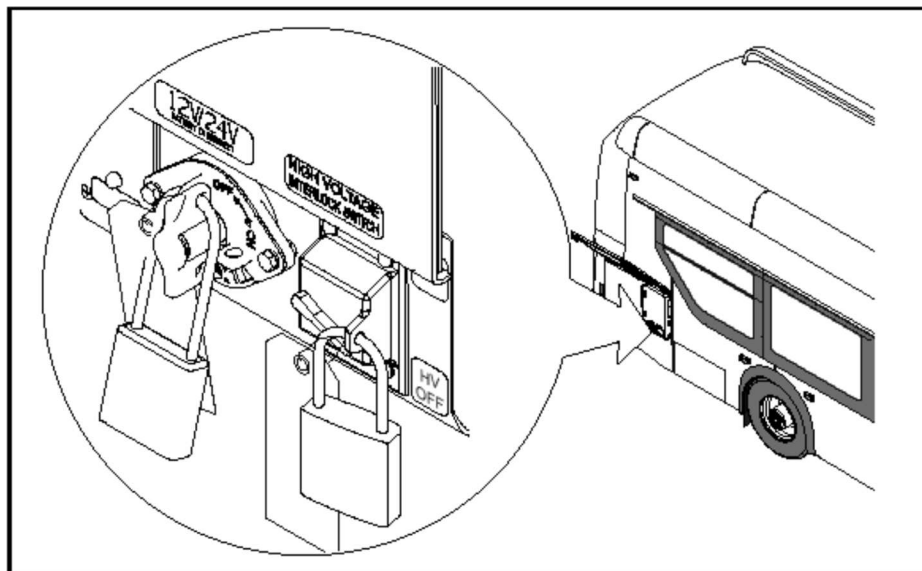


Figure 1: Lockout tagout location reference



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2. Rework Instructions:

2.1. Locate and gain access the HV DC contactor box on the roof as shown. See Figure 1.

☞ **NOTE: Use fall protection and PPE.**

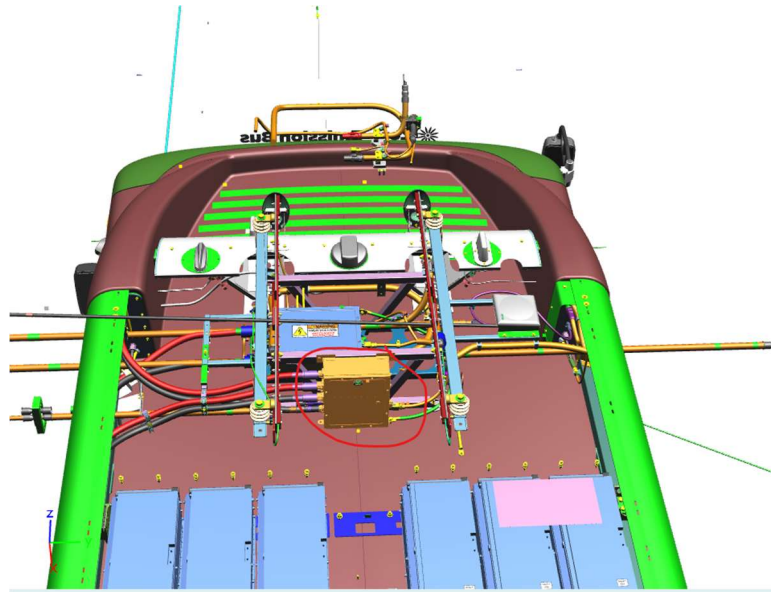


Figure 1 - Rework location reference.

2.2. Remove the lid mounting hardware on the HV DC contactor box and set aside. See Figure 2.

2.3. Ensure no voltage is present before proceeding.

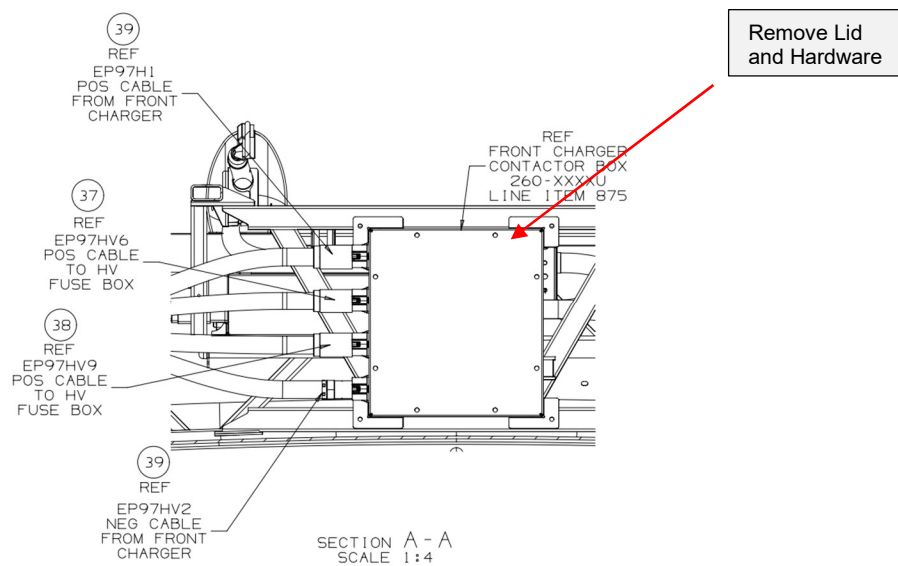


Figure 2 - POS and NEG HV cable connection location reference.

2.4. There will be two types of boxes for XE-35 and XE-40 foot as per Figure 3.

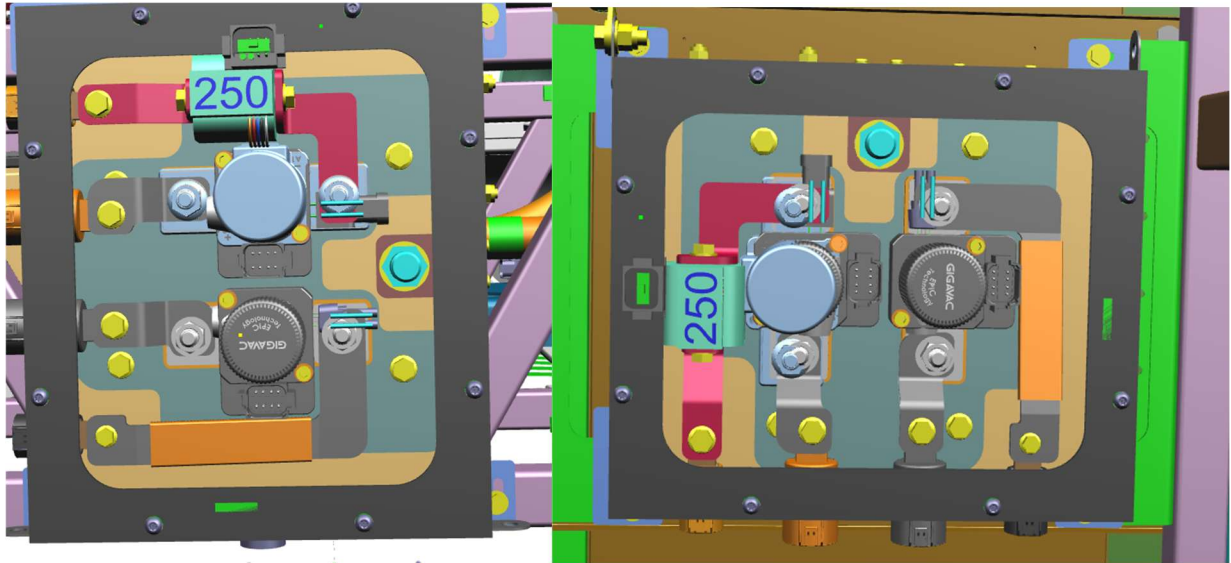


Figure 3 - Box 91118_F vs 980566_B

- 2.5. Access the HV DC contactor box and remove the two contactors LV connectors.
- 2.6. Disconnect the mating connector of the LV harness from that of the positive GIGAVAC contactors (see figure 4).
- 2.7. Unscrew the two M8 nuts mounting the busbars at both ends of the positive GIGAVAC 250A contactor (see figure 4).
- 2.8. Unscrew the two socket head cap screws mounting the GIGAVAC contactor to the base of the box and remove the contactor (see figure 4).

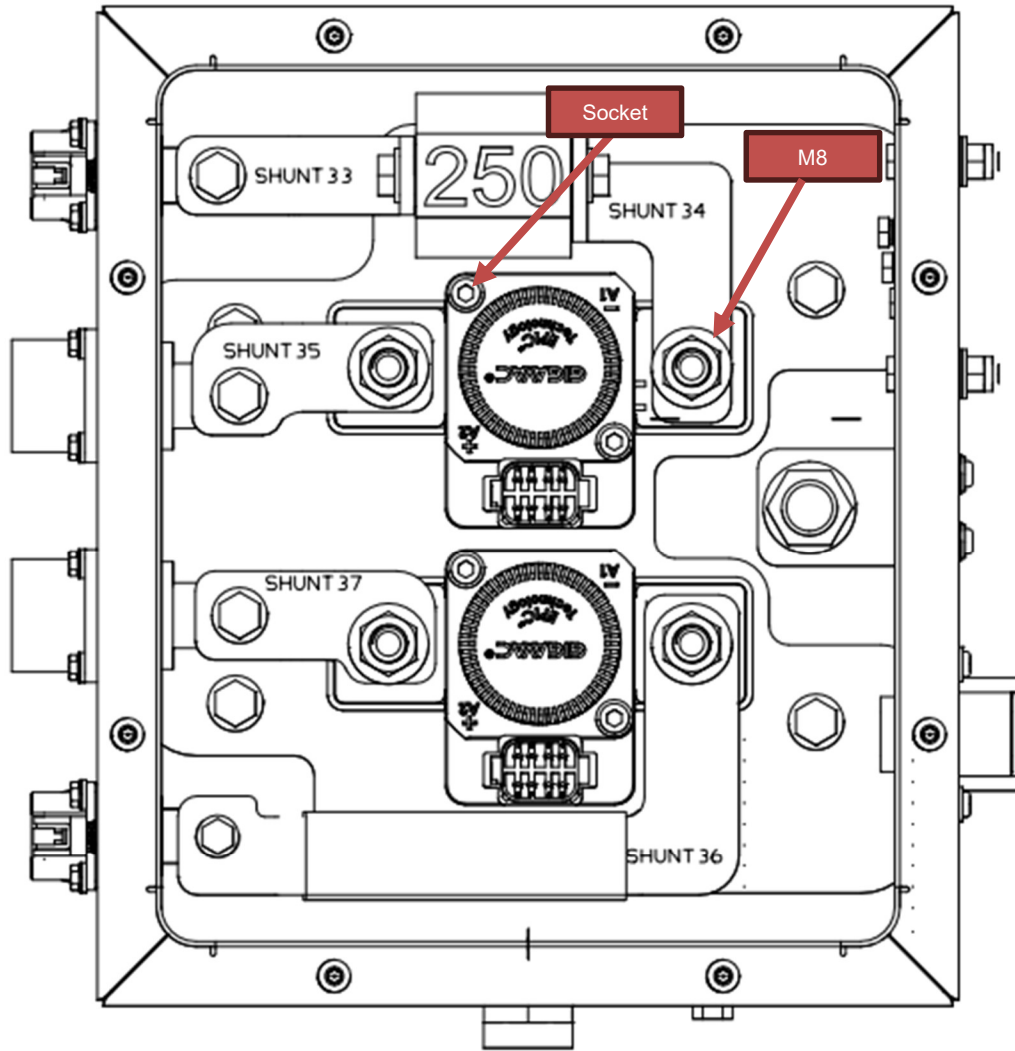


Figure 4 - Contactors Mounting screws



- 2.9. Install supplied 1117873 Assy-contactor Rincon 600A (Item 1) at the location where the GIGAVAC contactor was removed in step 2.8 using the same hardware.
- 3. Tighten the busbar in step 2.7 to both ends of the Rincon contactor using existing hardware (refer to figure 5).
- 3.1. Mate the LV harness connector disconnected in step 2.6 to that of Rincon contactors.

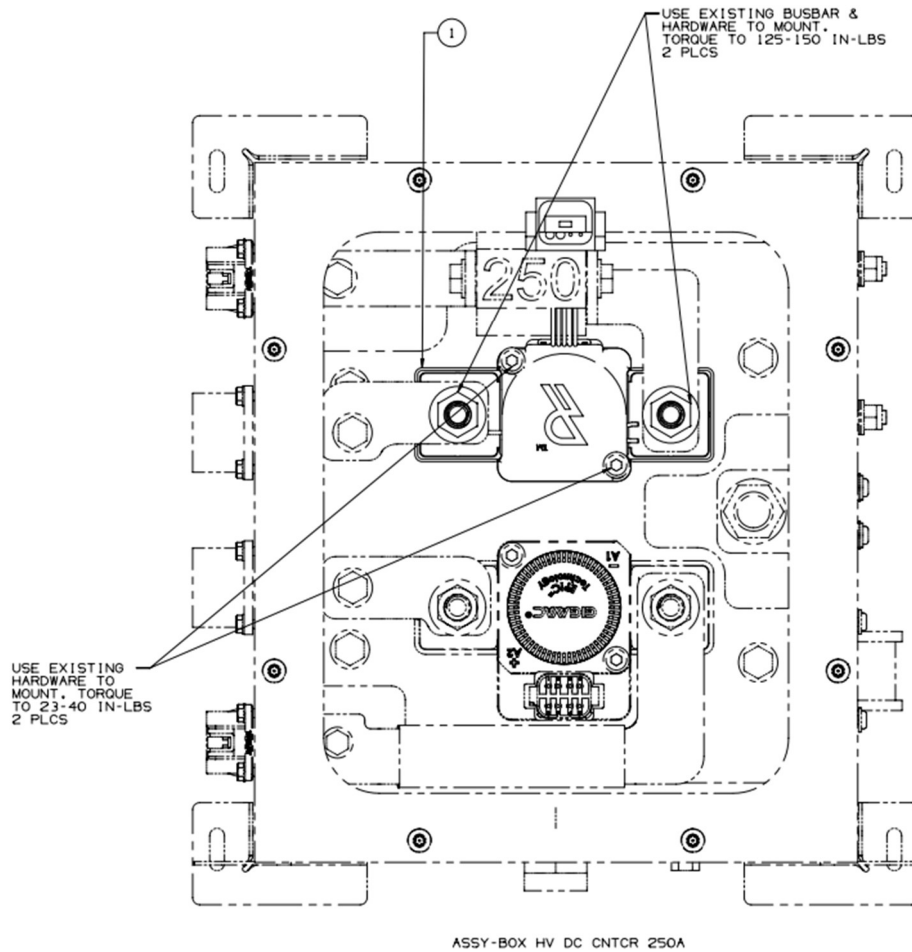


Figure 5 - New contactor installation



| LABOUR ESTIMATE | | | | |
|------------------------|---------------------------|-------------------------|-------|-------------------|
| | Operation | Number of Technician(s) | Hours | Labor Time T X HR |
| 1 | REWORK - HV DC CNTCR 250A | 1 | 2 | 2 |

| PARTS REQUIRED | | | | | |
|-----------------------|-------------|----------------------------|----------------|-------|-------|
| Item | Part Number | Description | Qty. per Coach | Units | Notes |
| 1 | 1117873 | ASSY-CONTACTOR RINCON 600A | 1 | EA | |
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