



INSTRUCTION TO SERVICE

ITS: 5910

SECTION:	294 Power Cables
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SUBJECT:	Part A: Trim Rear crown panel and bracket to prevent contact on HV cables Part B: Inspect BAE accessory cables and cut back cable insulation to $\frac{3}{4}$ " if required

ITS5910

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PROCEDURE:

⚠ WARNING: DO NOT perform any maintenance or re-work on the vehicle unless it has been completely shut down, disconnected from all of its voltage sources, and de-energize the system as follows:

- Turn off all electrical loads and set the Master Run switch to the OFF position.
- Set the battery disconnect switches to the OFF position to disconnect the vehicles 12/24 volt system.
- Disconnect the positive and negative power cables connections (single-pin connectors) from the EPU batteries.
- Allow a minimum of 2 minutes for stored energy to dissipate.

DO NOT perform any maintenance/re-work on roof mounted components unless equipment is in place to prevent fall hazards. Use lift platforms or scaffolding when-ever working on roof-mounted components. Ensure maintenance personnel use an approved safety harness when working on the roof of the vehicle.

DO NOT perform any maintenance/re-work on electrical components until they have cooled to a safe working temperature. The electric drive system components may still be very hot, if the vehicle was recently operated, and may pose a burn hazard to maintenance personnel.

Part A: Trim Rear crown panel and bracket to prevent contact on HV cables

1. Turn the main battery disconnect switch to the “OFF” position.
2. Inspect the BAE Hybrid HV cables at the curbside rear corner of the bus and check if the cables are chafing on the roof crown panel and bracket as shown in Figure 1.



Figure 1: Typical BAE HV cables installation

3. To prevent the HV cables from chafing, trim the roof crown panel and bracket as shown in Figure 2. Apply primer to the bracket after trimming.

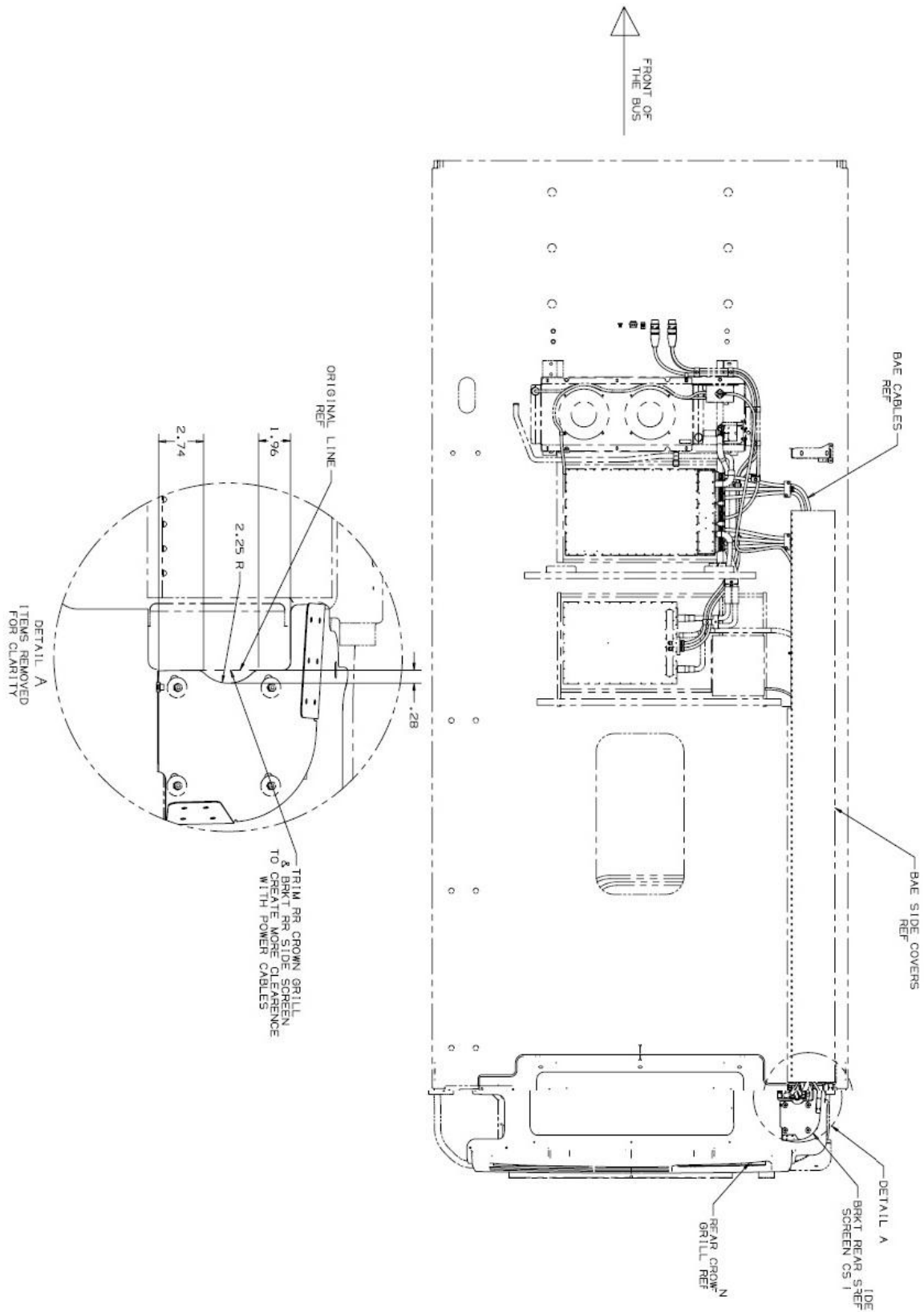


Figure 2: Rear roof crown panel and bracket trimming reference

Part B: Inspect BAE accessory cables and cut back cable insulation to $\frac{3}{4}$ " if required

4. Open the lid of the High Voltage junction box shown in Figure 3 to have access to the BAE accessory cables.

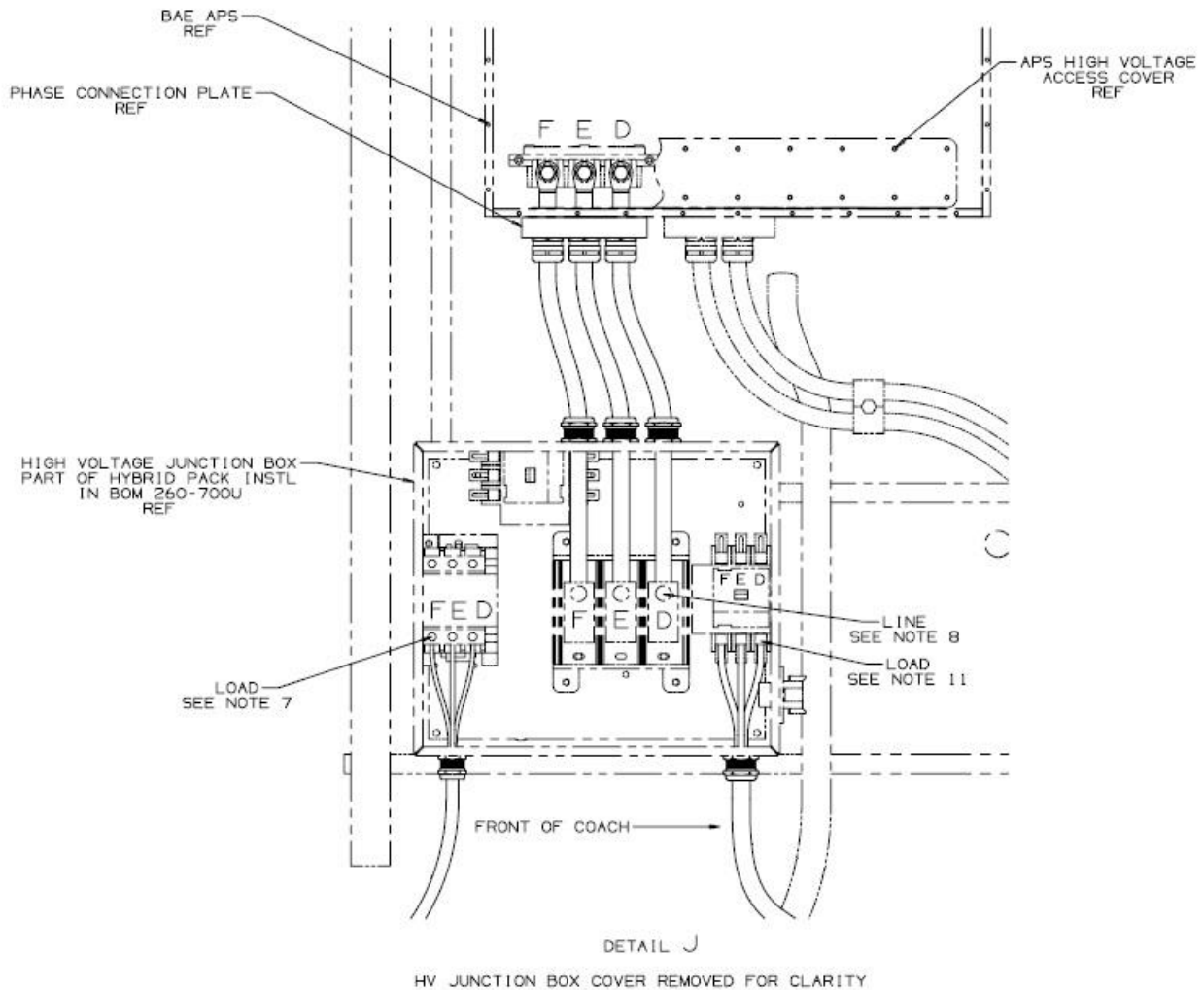


Figure 3: High Voltage Junction Box

5. One at a time remove the BAE accessory cable and inspect if the cable insulation is cut back (stripped) to $\frac{3}{4}$ ". If the insulation is stripped less than $\frac{3}{4}$ ", cut back (strip) the insulation to $\frac{3}{4}$ ". See Figure 4 for reference. No need to rework the cable if the insulation is stripped $\frac{3}{4}$ ". Re-install the cable and torque line side to 32 Nm (275 in-lbs). Repeat this step on all three cables.

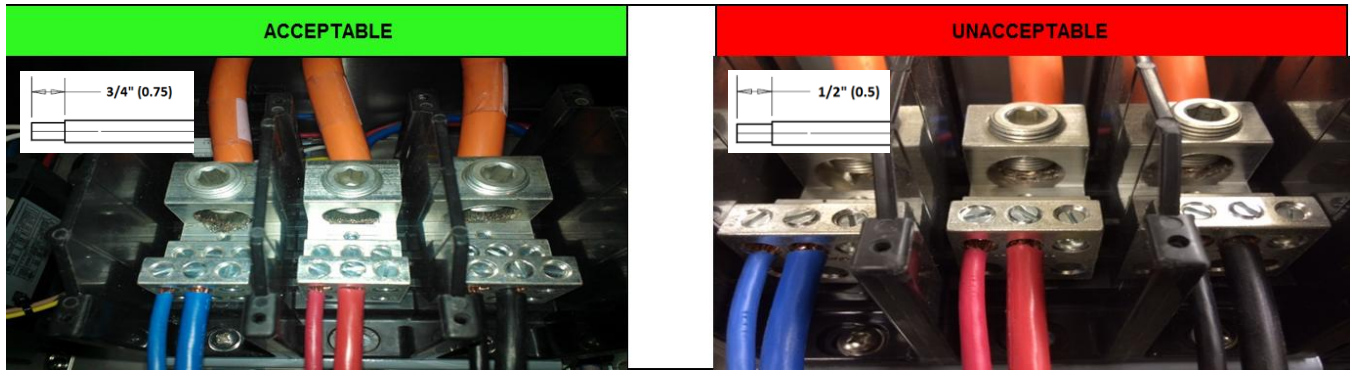


Figure 4: Insulation Cut back reference

6. Reinstall the lid of the HV cable junction box.
7. Turn the main battery disconnect switch to the "ON" position.

LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Part A: Trim Rear crown panel and bracket to prevent contact on HV cables	1	0.75	0.75
2	Part B1: Inspect BAE accessory cables	1	0.25	0.25
3	Part B2: cut back (strip) cable insulation to ¾" if required	1	0.5	0.5

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	N/A	N/A	-	-	