



## INSTRUCTION TO SERVICE

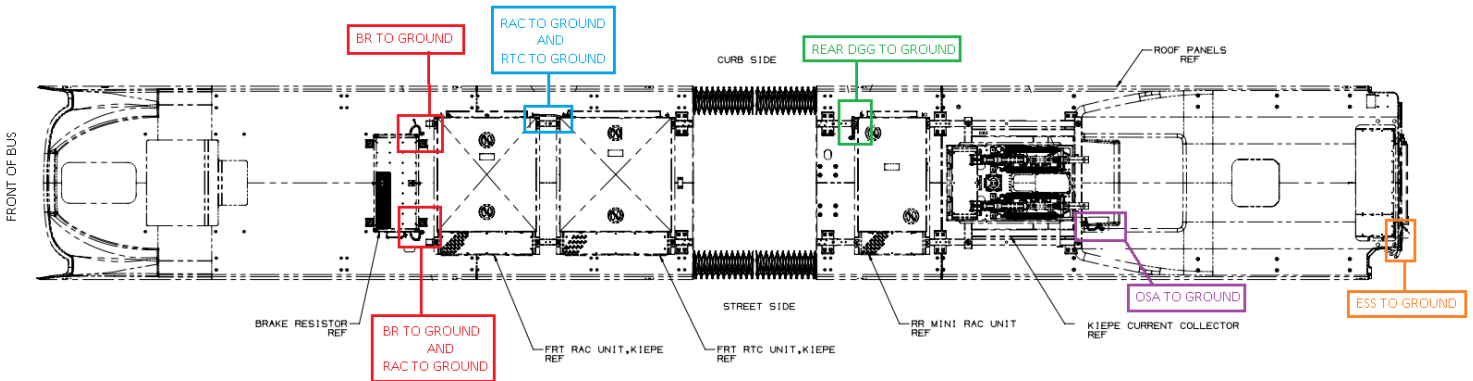
<b>ITS: 6266</b>	
<b>SECTION:</b>	294 Power Cables
<b>WRITTEN BY:</b>	Alan Mark
<b>SUBJECT:</b>	Inspect and Re-torque Ground Power Cables

# ITS6266

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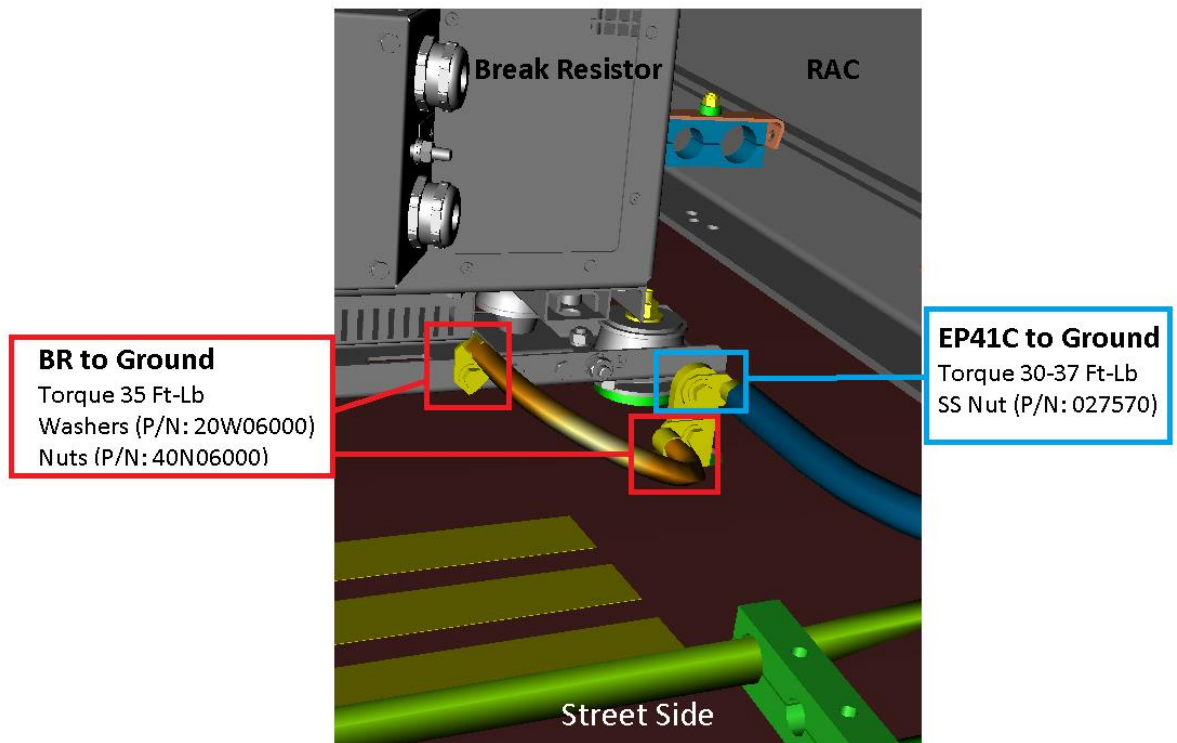
**PROCEDURE:**

1. Turn the main battery disconnect switch to the “OFF” position.



**Figure 1: Grounding Points**

2. Locate the ground bars as shown referenced in Figures 1 to 7. Remove the cables from the ground bars and ensure all ground surfaces are ground down to bare metal.



**Figure 2: Brake resistor and roof auxiliary container ground point on street side**

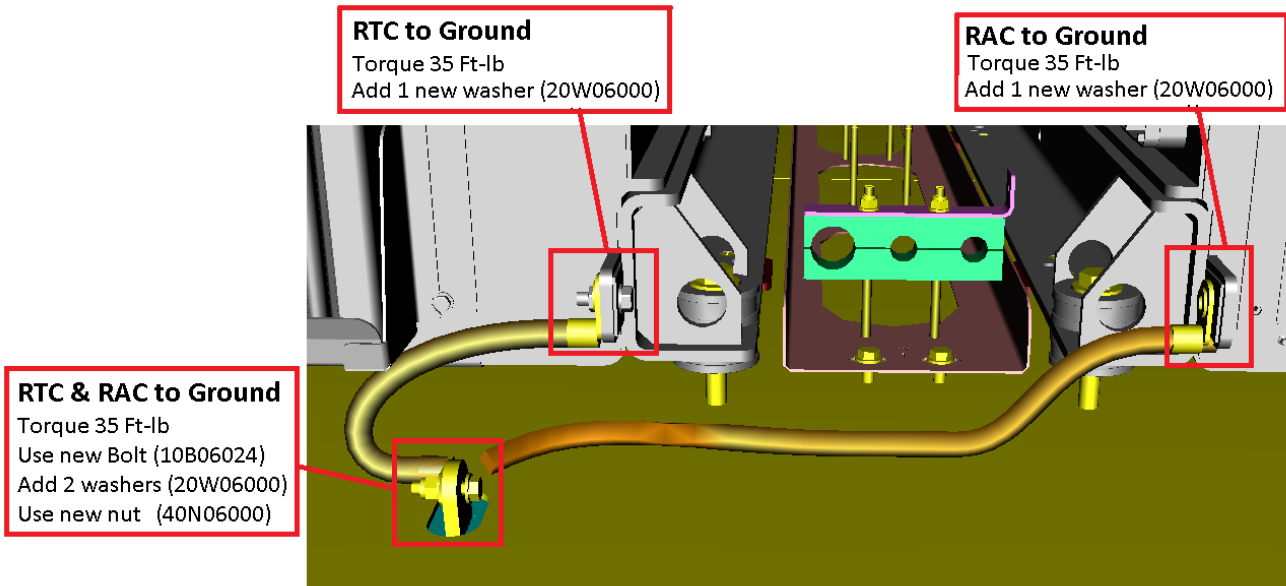


Figure 3: RAC to ground & RTC to ground

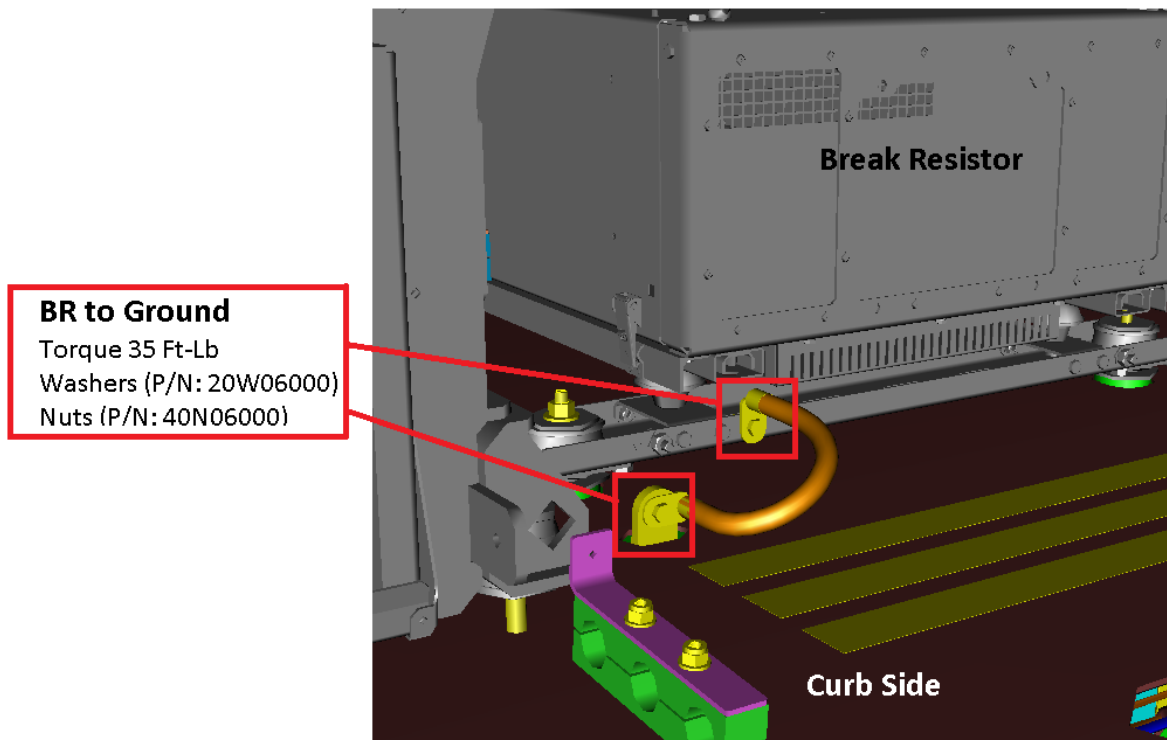
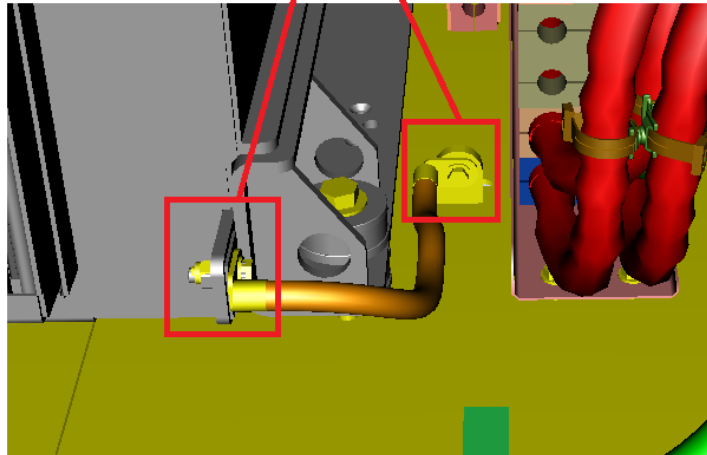


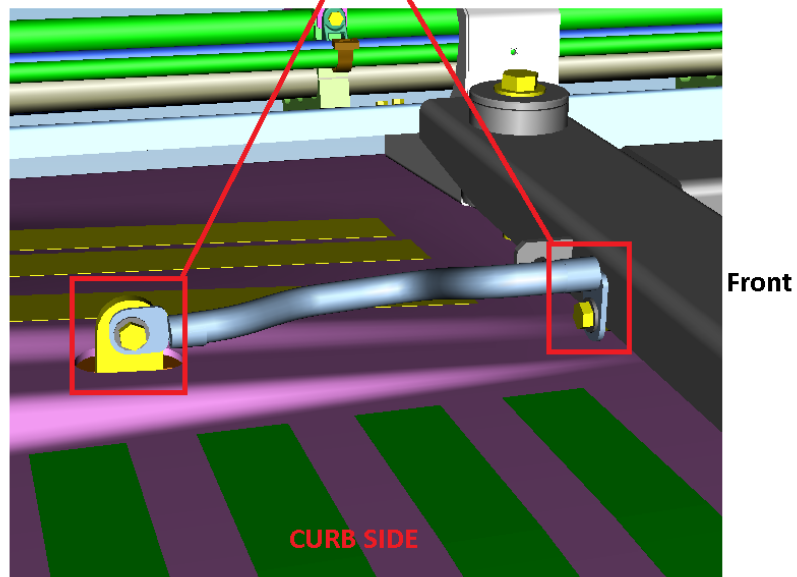
Figure 4: Brake resistor ground point on curb side

**Rear DGG to Ground**  
Torque 35 Ft-Lb  
Add washers (20W06000)  
Use new nuts (40N06000)



**Figure 5: Rear DGG to ground from curb side**

**OSA to Ground**  
Torque 35 Ft-Lb  
Add washers (20W06000)  
Use new nuts (40N06000)



**Figure 6: OSA to ground from curb side**

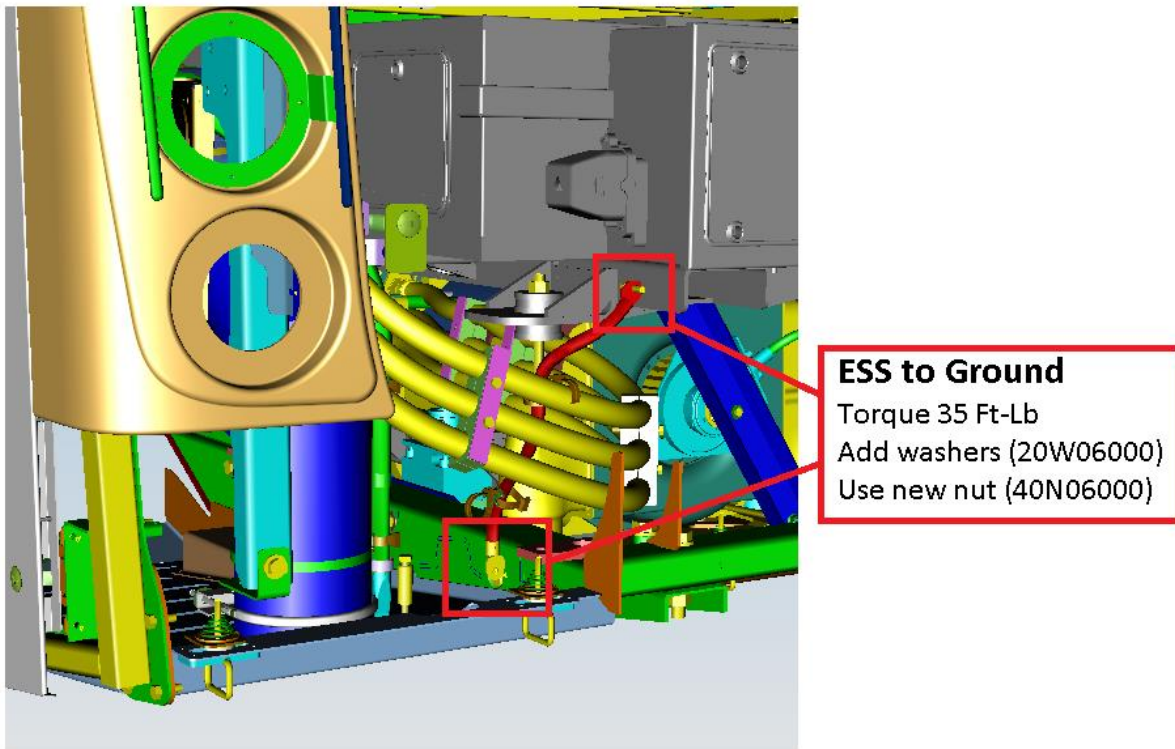


Figure 7: Energy storage system to ground (rear of bus)

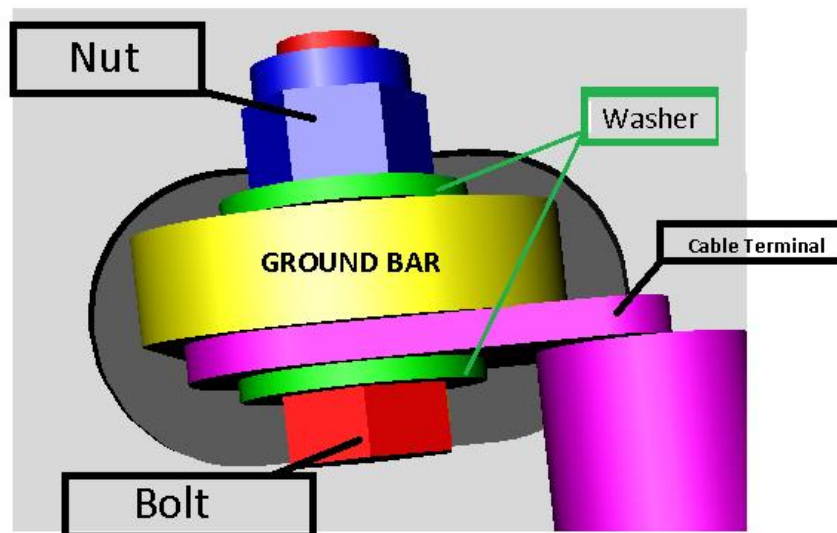


Figure 8: Reassembly stacking configuration



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3. Clean off all dielectric grease from the ground bar, cable lugs, and mounting hardware.
4. Locate the BR and EP41PC RAC to ground shown in Figure 2.
  - a. The BR to ground will be reassembled using the existing bolt and the addition of two washers (P/N: 20W06000) and a new lock nut (P/N: 40N06000) and torque to 35 ft-lb as shown in Figure 2 and Figure 8.
  - b. EP41RC to ground will be reassembled using the existing washers and bolt but with a new stainless steel lock nut (P/N: 027570). Torque to 30-37 Ft-Lb.
5. Locate the RAC to Ground and RTC to ground as seen in Figure 3.
  - a. Reassemble the hardware using a new 1 1/2" long bolt (P/N: 10B06024), two washers (P/N: 20W06000) and a new lock nut (P/N: 20W06000) as seen in Figure 8. Torque to 35 Ft-Lb.
  - b. Reassemble the hardware with the addition of 2 new washers (P/N: 20W06000), one washer per bolt where the ground cables connect to their respective units (RAC and RTC). Figure 3 displays the hardware to use and Figure 8 displays the configuration of hardware.
6. The ground locations in Figures 4 to Figure 7 can be reassembled with the existing bolt, new washers (P/N: 20W06000) and a new lock nut (P/N: 40N06000). Figure 8 displays the hardware stacking configuration. Torque these locations to 35 Ft-Lb.
7. Apply dielectric grease (P/N: 8111767) to the torqued hardware, ensuring all bare metal is covered.
8. Remove all tools and debris and return the bus to service condition.
9. Turn the main battery disconnect switch to the "ON" position.



**⚠ WARNING:** Use work platforms or scaffolding whenever working on roof-mounted components.

**DO NOT** perform any maintenance on the vehicle unless it has been completely shut down, disconnected from all its voltage sources, and de-energized.

LABOUR ESTIMATE				
	Operation	Men	Hours	Labour Time M X HR
1	Inspect and Re-torque Roof Ground Power Cables	1	1.25	1.25

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	20W06000	WASHER FLAT HARDENED 3/8"	16	EA	CARBON STEEL
2	8111767	LUBRICANT NYK-77	0.010	EA	
3	6466393	ASSY – PARTS FOR ITS-6266	1	EA	KIT
3.1	40N06000	NUT-HEX LOCK 3/8 NC	11	EA	PART OF KIT
3.2	10B06024	BOLT HEX 3/8" 16 UNC X 1 1/2" LG	1	EA	PART OF KIT
3.3	027570	NUT HEX LOCK SS 3/8" - 16 UNC	1	EA	PART OF KIT
3.4	20W06000	WASHER FLAT HARDENED 3/8"	8	EA	PART OF KIT

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1		Torque Wrench			