



INSTRUCTION TO SERVICE

ITS: 58751	
SECTION:	600 Customer Options
WRITTEN BY:	Daniel Tice
SUBJECT:	R&R Antenna Pedestal Mounting Brackets

ITS58751

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PROCEDURE:

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

⚠ WARNING

DO NOT perform any maintenance on roof-mounted components unless equipment is in place to prevent fall hazards. Ensure maintenance personnel use approved lift platforms or scaffolding and wear approved safety harness when working on the roof of the vehicle. Please refer to the Preventive Maintenance section of your Service Manual under the Safety heading for more information.

2. On the roof of the bus, locate the street side antenna pedestal and remove and retaining hardware Items #1 Screws and #2 Washers on the two antenna plates on either end of the pedestal. See Figure 1
 - ☞ **NOTE: Discard Items #1 Screws and #2 Washers.**
3. The plates are sealed in place with Sika sealant so carefully cut the sealant between the plate and the antenna pedestal and slide the antenna plate over to expose the inside of the end caps on the antenna pedestal.
 - ☞ **Caution: Wear safety glasses and gloves while cutting and cleaning sealant between plates.**
4. On both ends of the antenna pedestal remove and discard the existing mounting brackets and hardware. See Figure 1.

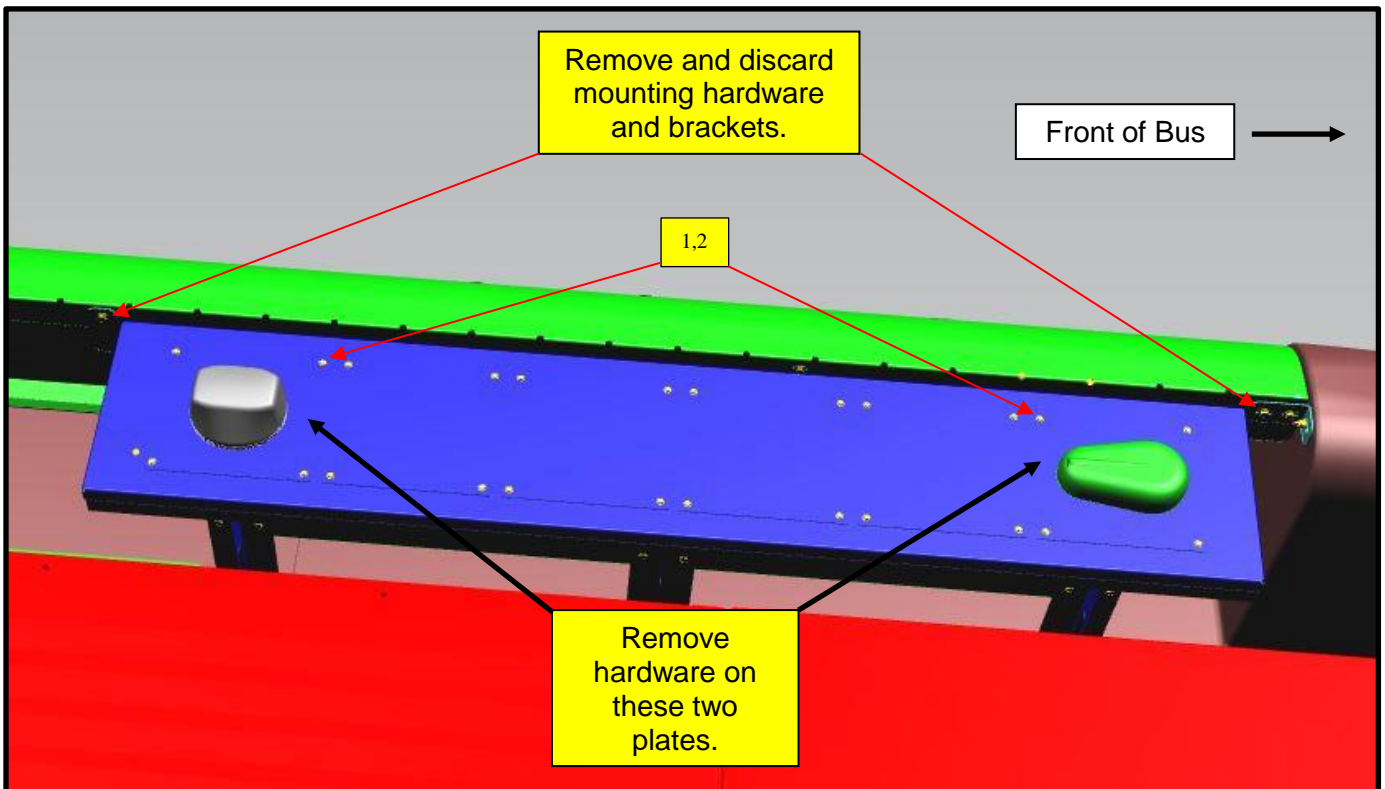


Figure 1: Antenna pedestal location

1	14S98012	Machine, Screw 8-32 x .75	8	EA
2	10W98000	Washer, Flat #8	8	EA



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5. Align Item #3 Antenna pedestal support bracket 1.38" up from the lower side screen bracket. Attach loosely with Items #6 Bolt, #7 Washer, #8 Nut. Apply 1 or 2 drops of Loctite item #9 to the threads of hardware where weld nuts are used as shown. See Figure 2.
 - ☞ **NOTE: Install hardware Item #7 on front and rear of the mounting surfaces where weld nuts are not used.**
6. Attach Item #4 Antenna mounting bracket loosely with Items #6 Bolt, #7 Washer and #8 Nut. See Figure 2.
 - ☞ **NOTE: Do not tighten hardware Items #6, #7, and #8 at this time.**

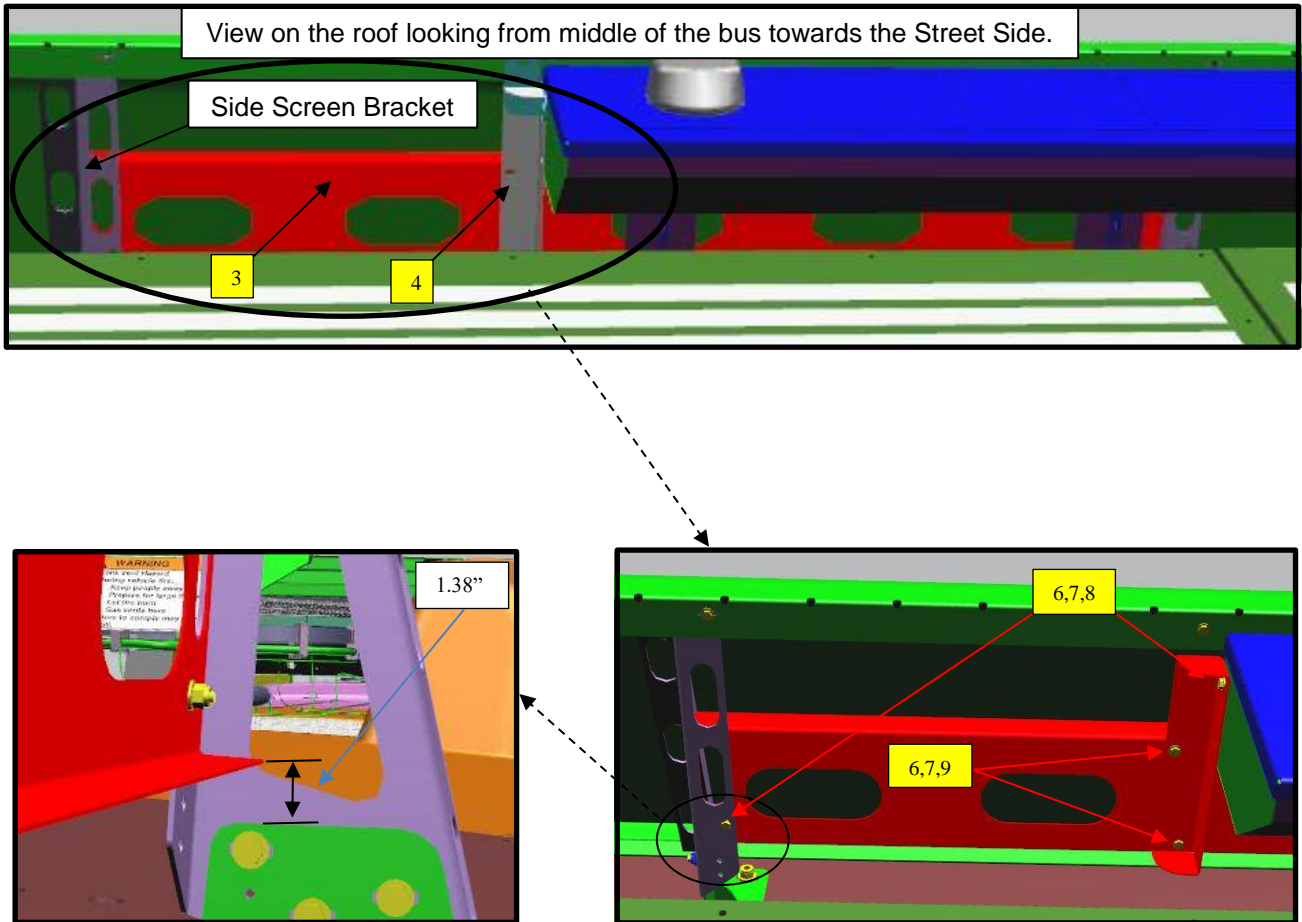


Figure 2: New antenna pedestal mounting bracket locations

3	820169	Pedestal Support Bracket	1	EA
4	817877	Bracket Antenna Mounting	1	EA
6	20B04012	Bolt, Hex SST ¼ - 20	4	EA
7	50W04000	Washer ¼"	6	EA
8	42N04000	Nut ¼ - 20	2	EA
9	081043	Loctite 243	0.010	EA

7. Align Item #3 Antenna pedestal support bracket 3.36" up from the bottom edge of the upper side screen bracket. See Figure 3.
8. Tighten all mounting hardware in steps 5-6 and torque to 75 IN-LBS. See Figure 2.
9. Drill four 17/64" pass through holes for the remaining hardware in the locations identified using the existing holes in the mounting brackets as a template. See Figure 3.
10. After drilling the pass through holes Install the remaining hardware Items #6 Bolt, #7 Washer, #8 Nut and torque to 75 IN-LBS.

☞ **NOTE: Install hardware Item #7 on front and rear of mounting surfaces.**

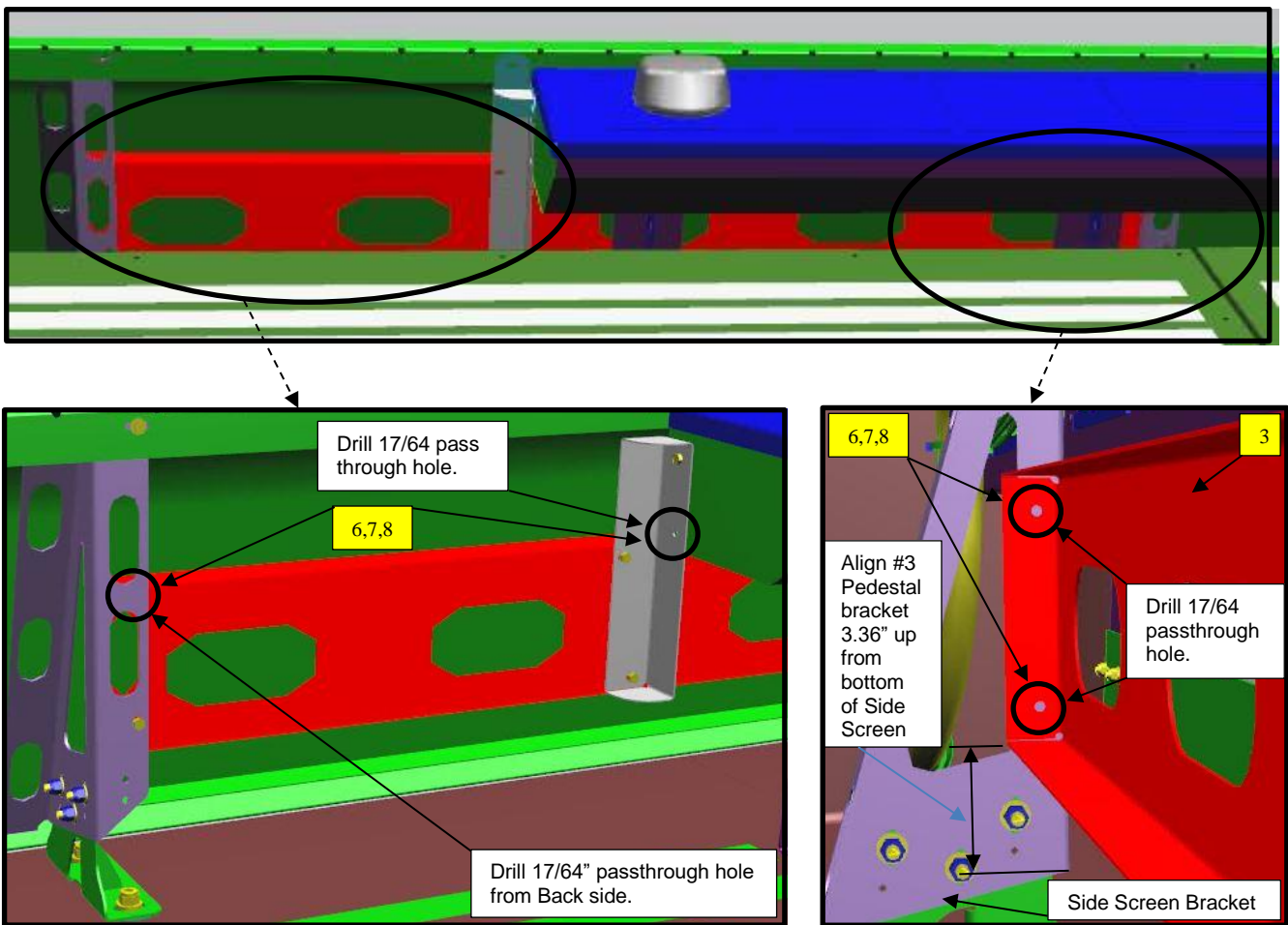


Figure 3: Antenna pedestal mounting bracket hole locations

3	820169	Pedestal Support Bracket	1	EA
6	20B04012	Bolt, Hex SST ¼ - 20	4	EA
7	50W04000	Washer ¼"	8	EA
8	42N04000	Nut ¼ - 20	4	EA

11. Install Item #5 front mounting antenna bracket using items #6 Bolt, #7 Washer, #8 Nut and torque to 75 IN-LBS.
 ⚠ **NOTE: Install hardware Item #7 on front and rear of mounting surfaces.**
12. Install mounting hardware on front roof assembly stud to #5 front mounting antenna bracket with #7 Washer, #8 Nut and apply 1 or 2 drops of Loctite item #9 to the threads as shown. See Figure 4.
 Torque hardware to 75 IN-LBS.

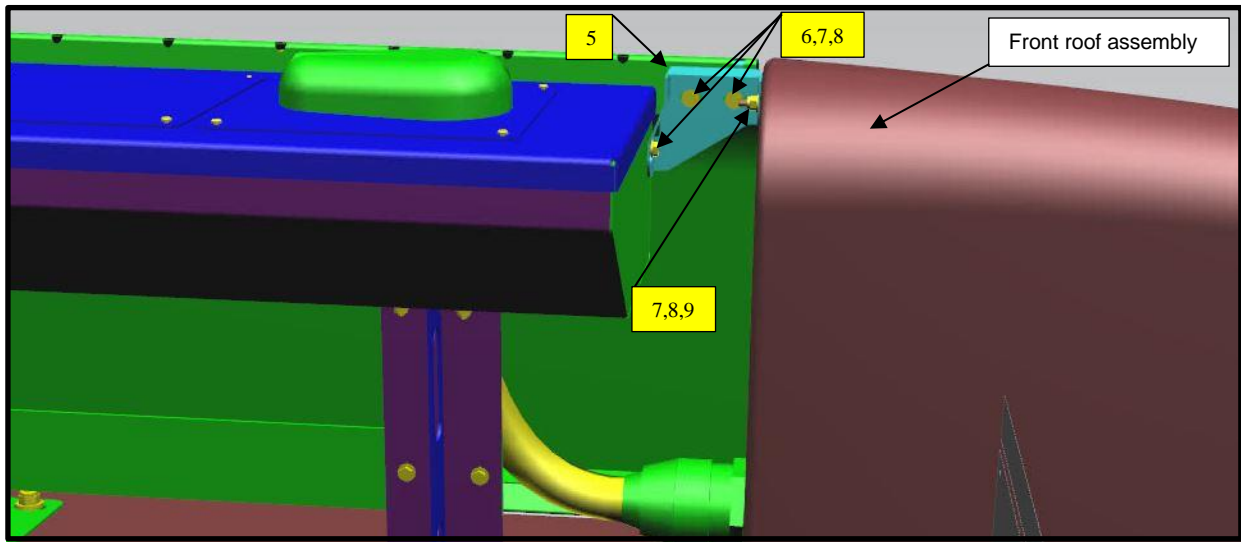


Figure 4: Antenna pedestal front mounting bracket location

5	817955	Bracket, Front Mounting	1	EA
6	20B04012	Bolt, Hex SST ¼ - 20	4	EA
7	50W04000	Washer ¼"	8	EA
8	42N04000	Nut ¼ - 20	4	EA
9	081043	Loctite 243	0.010	EA

13. On the top of the antenna pedestal, clean off all the old Sika sealant from the pedestal and plate where the plates were removed in step 3. Be careful not to damage the paint. After the sealant has been removed, use a lint free cloth dampened with #10 Sika Aktivator and wipe the bonding surfaces of the antenna pedestal and the antenna plates. Allow to flash off for 5 mins. See Figure 5.

⚠ Caution: Wear safety glasses and gloves while cleaning sealant from pedestal and plates.

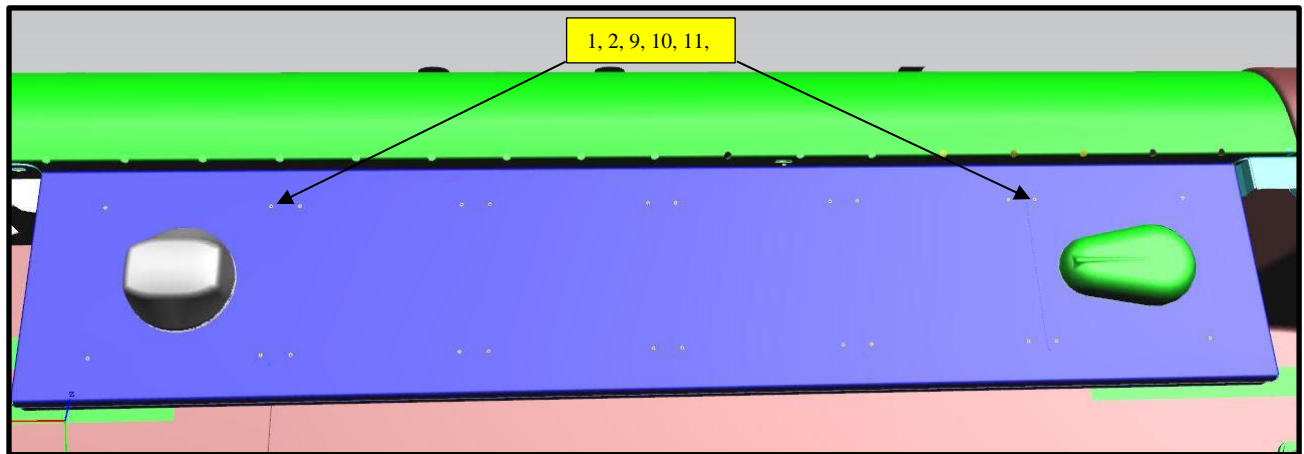


Figure 5: Antenna plate mounting locations

14. Apply an even bead of Item #11 Sika sealer around the entire perimeter of the antenna mounting plates and on the existing fasteners for the antenna mounting plates and fasten the plates back in place Using Items #1 Screw, #2 Washer and apply 1 or 2 drops of Loctite item #9 to the threads as shown. See Figure 5.
15. Wipe off any access sealant that has squeezed out.
16. Remove all tools and debris and return the bus to service condition.
17. Turn the main battery disconnect switch to the “ON” position.

1	14S98012	Screw, 8-32 x .75	8	EA
2	10W98000	Washer, Flat #8	8	EA
9	081043	Loctite 243	0.010	EA
10	055702	AKTIVATOR-SIKA 205	0.01	EA
11	055701	SIKA 221 WHITE	0.01	EA



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LABOUR ESTIMATE

	Operation	Men	Hours	Labor Time M X HR
1	R&R Antenna Pedestal Mounting Brackets	1	1.5	1.5

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	14S98012	Screw, 8-32 x .75	8	EA	
2	10W98000	Washer, Flat #8	8	EA	
3	820169	Pedestal Support Bracket	1	EA	
4	817877	Bracket Antenna Mounting	1	EA	
5	817955	Bracket, Front Mounting	1	EA	
6	20B04012	Bolt, Hex SST ¼ - 20	11	EA	
7	50W04000	Washer ¼"	21	EA	
8	42N04000	Nut ¼ - 20	10	EA	
9	081034	Loctite 243	0.01	EA	
10	055702	AKTIVATOR-SIKA 205	0.01	EA	
11	055701	SIKA 221 WHITE	0.01	EA	