

## New Jersey Transit: Radio Compartment Rework



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**Property and Top Bus Number:** New Jersey Transit 416.15, 164200, 164400, 279000, 279500, 289000



**Issue:** Radio compartment floor is flexing.

**Reason/ cause:** The weight of the radio is transmitted through four small diameter nylon spacers.

**Solution:** Discard spacers and modify the slide mounts per this work instruction (SOI).

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**Number of affected buses:** all

**Estimate repair hours/bus:** 45 minutes

### **Necessary parts:**

Bolt, ¼-20x1.5, Hex, SS304,	P/N: <b>500-8601-006</b> ,	4 / bus,
Washer, fender, ¼, SS,	P/N: <b>500-8603-003</b> ,	4 / bus,
Nut, nylock, ¼-20, SS,	P/N: <b>210420SSN</b> ,	as required (4/bus),
Sikaflex 221 sealer,	P/N: <b>70003.01233</b> ,	as required,

### **Necessary tools:**

Regular hand tools (7/16 wrench and socket, screwdrivers), 3/16" size drill bit, drill

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### **SAFETY PRECAUTIONS MUST BE FOLLOWED ACCORDING TO ACCEPTED INDUSTRY STANDARDS AND LOCAL/PROPERTY REQUIREMENTS.**

1. Park the bus and apply the parking brake.
2. Open the access door of the radio compartment located under the driver's window.



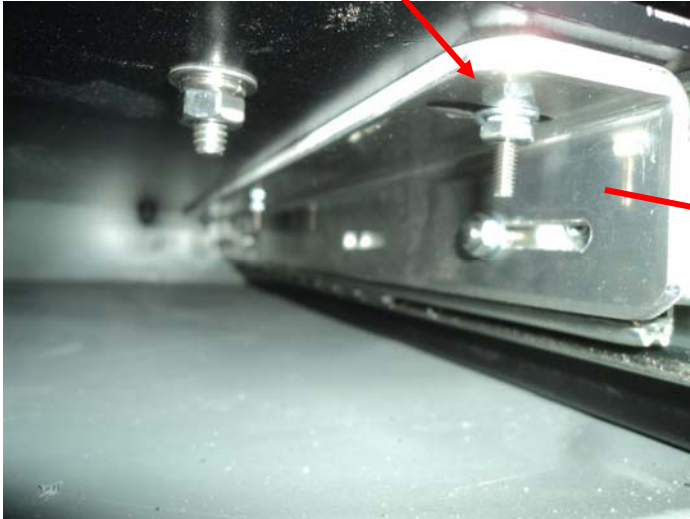
3. Inspect the compartment floor. If crack was found then contact to John Gunter NABI Senior Field Service Representative at 614-256-6046.
4. Remove mounting bolts and nuts that secure the tray to the compartment floor. Discard the four nylon spacers.



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5. Remove inner mounting brackets from the radio tray.



6. Remove slides from outer mounting brackets.
7. Mark and drill  $\frac{3}{16}$ " size new holes on the brackets  $\frac{1}{2}$ " higher than the original mounting location.



8. Install slides to the new mounting holes. Use the original hardware. Replace hardware if damaged.
9. Reinstall mounting brackets to the tray.
10. Secure mounting brackets directly to the compartment floor, without spacers. Use new  $\frac{1}{4}$ -20x1.5" stainless bolts.

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11. Install fender washers and ¼-20 lock nuts underneath the compartment floor.



12. Slide the radio in and out and check that it is not hitting the back of the compartment or the access door. Move the tray back or forward as required.

13. Torque the ¼-20 locknuts to 60 inch-pound.

14. Apply Sikaflex 221 sealer and undercoating onto the hardware.



15. Remove unused parts and tools from work area.

16. Double check that the radio tray is not hitting the back of the compartment or the access door.

17. Check for completeness of work.

18. Record bus number, mileage and date of completion.