

NABI: WMATA – Front Brake Line & Wiring Securement



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Property and TopBus Number:
WMATA 325000 & 325500 – 8001 thru 8105.

Issue: Front Brake Lines

Reason/ cause: Improved front brake line & ABS wiring securement.

Solution: Install p-clamp to secure brake lines & wiring per this Work Instruction

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Number of affected buses: 105

Estimate repair hours/bus: 2.00

Necessary parts:

Item	Description	PN	Qty
01	P-Clamp Assembly (Includes Hardware)	542-9418-010	2
02	¼"-20 UNC Nylon Insert Lock Nut	McMaster Carr PN: 97135A210	2
03	Undercoating	N/A	AR

Necessary Tools / Supplies:

Basic hand tools

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

1. Park the bus on level surface and apply parking brake. Turn engine off.
2. Turn off the main battery disconnect switch.
3. Using an axle lift, raise the vehicle up so to access the front wheel well area.
4. Turn the wheels to give more room to work in the wheel well area.
5. Locate the curbside shock tower.
6. Mark the shock tower at the location shown below (see below).



7. At the location marked in step 6, drill a hole using a 17/64th's drill bit (see below).



8. Apply undercoating to the area previously drilled.
9. Install a 1/4-20 bolt & nut to the location drilled in step 6. Tighten securely.
10. Install the provided p-clamp to the brake line, leaving the wiring on the outside of the p-clamp.

11. Attach the p-clamp to the bolt installed in step 7 & install a nylon insert lock nut (see below).
Tighten the lock nut securely.



12. Repeat process for the street side.
13. After installation of both sides is complete. Move the wheels in both directions & ensure the brake line is not in contact with the air bag or tire.

14. If the brake line is in contact with the air bag or tire, adjust the fitting on the brake chamber to gain clearance (see below).



15. Clean up any debris caused by performing this retrofit.
16. Lower the vehicle.
17. Turn the main battery switch on.
18. Turn on the vehicle.
19. Operate the brakes & inspect for leaks. Repair as required.
20. Record bus number, mileage and date of completion; return form to Field Service Manager