



INSTRUCTION TO SERVICE

ITS: 6722

SECTION:	246: Air System
WRITTEN BY:	Kalman Takacs
SUBJECT:	"NABI" – MGM E-Stroke Harnesses

ITS6722

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

NOTE: Wear safety glasses and mechanic's safety gloves while performing this repair.

Issue: MGM E-stroke system may miss wired.

Solution: By using a laptop with the MGM E-stroke software disconnect E-stroke harnesses one by one and verify that they are connected to the correct port of the MGM E-stroke CCM (Chassis Communication Module).

PROCEDURE:

1. Park bus on a flat surface and apply the parking brake.
2. Open the radio compartment door and locate the MGM E-Stroke CCM. Refer to Figure 1.



Figure 1: E-Stroke CCM – Gen 3 version is shown

3. Connect laptop equipped with the latest MGM E-stroke software to the diagnostic port. Ensure to use the correct software and cable supplied with the E-Stroke system installed on your bus. Refer to Figures 1 and 2.



Figure 2: E-Stroke diagnostic cable – Gen 3 version is shown

4. To verify that the harnesses coming from the brake chambers are connected to the matching ports on the CCM, unplug harnesses one by one and verify that the error message on the laptop screen is matching the harness. For example when the harness labeled “RR” (Right Rear) is disconnected the error message should appear beside the “Axle 2 Right” on the screen. If required, swap harnesses to match the correct ports on the CCM. Refer to Figure 3.

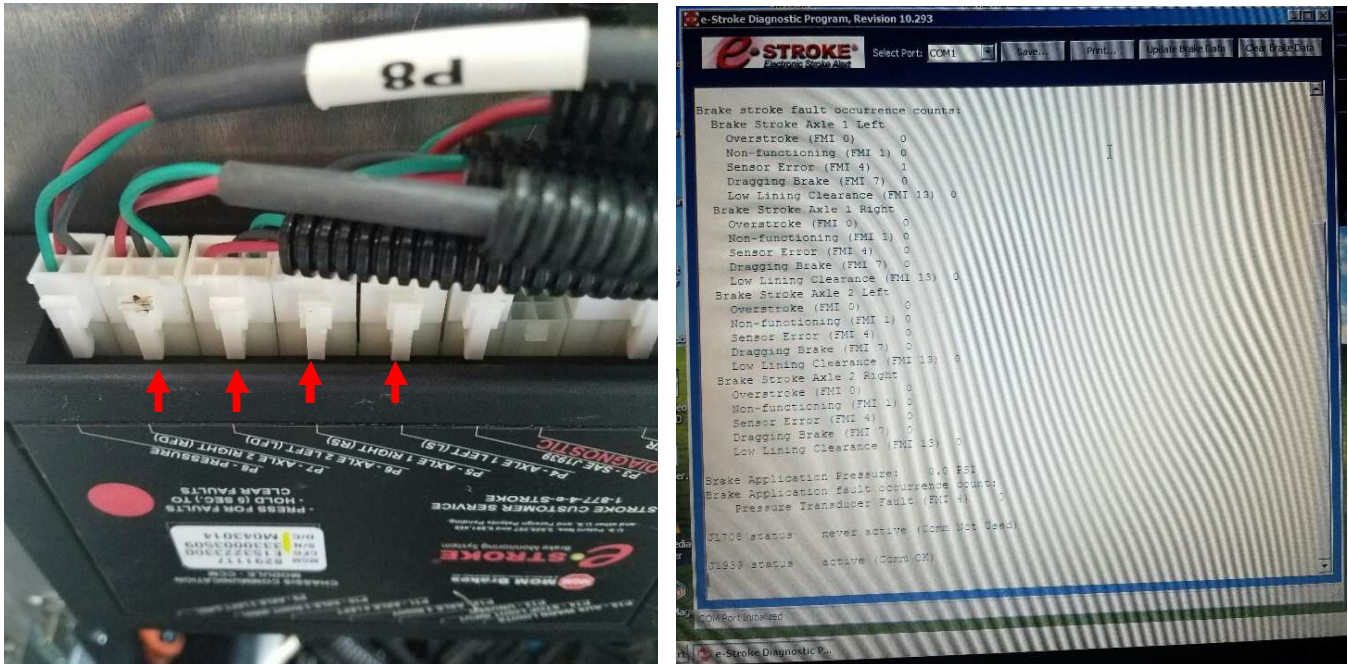


Figure 3: The four harnesses that need to be disconnected / checked – Gen 3 version is shown

5. If harnesses have no identification and/or they are miss labeled then remove incorrect label and install a new piece of tape (masking tape, electric tape or similar) and write the correct location the harness is coming from (RR, LR, RF or LF). Refer to Figure 4.

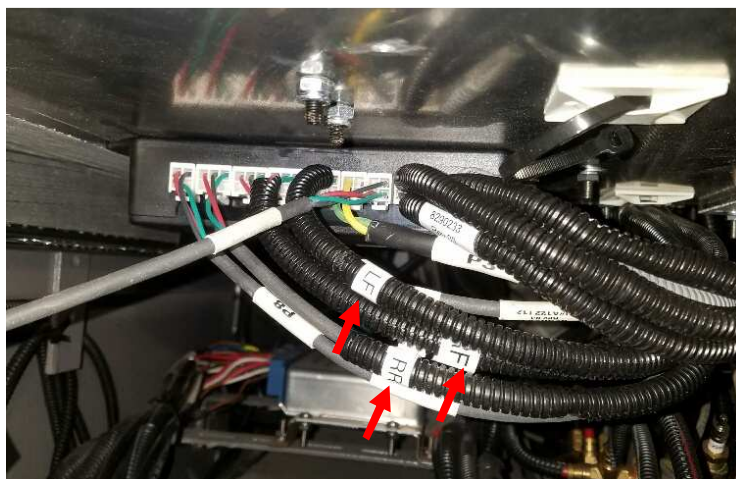


Figure 4: Labels on harnesses



6. Check for completeness of work.
7. Remove tools and unused parts from work area.
8. Record bus number, the date of repair and the name of technician(s) who completed the work.
9. Follow regular inspection recommendations for brake components per NABI Maintenance Manual.



LABOUR ESTIMATE

	Operation	Men	Hours	Labor Time M X HR
1	Inspect and swap harnesses if required per this ITS	1	1	1

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NPN	Tape	0.1	EA	Sourced locally

SPECIAL TOOLS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NPN	Laptop with the latest MGM E-Stroke software and diagnostic cable			