New Jersey Transit: 35 PSI Brake Interlock Plumbing Change

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Property and Top Bus Number: New Jersey Transit

Issue: Moisture in 35 psi brake interlock pressure sensor switch may freeze causing a diagnostic light to erroneously illuminate a light on the dash. This condition leads to a maintenance road call.

Reason/ cause: There is a Down Slope to the 35 PSI Pressure Switch Allowing Moisture to Accumulate Inside Switch – During Low Temperature Days Moisture Would Freeze and Cause the Switch to Temporarily Fail

Solution: Re-orientate Air Lines to 35 PSI Pressure Switch to Eliminate Down Slope to Switch

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Number of buses affected: 1299

Estimate repair hours/bus: .25

Engineering Documentation: N/A

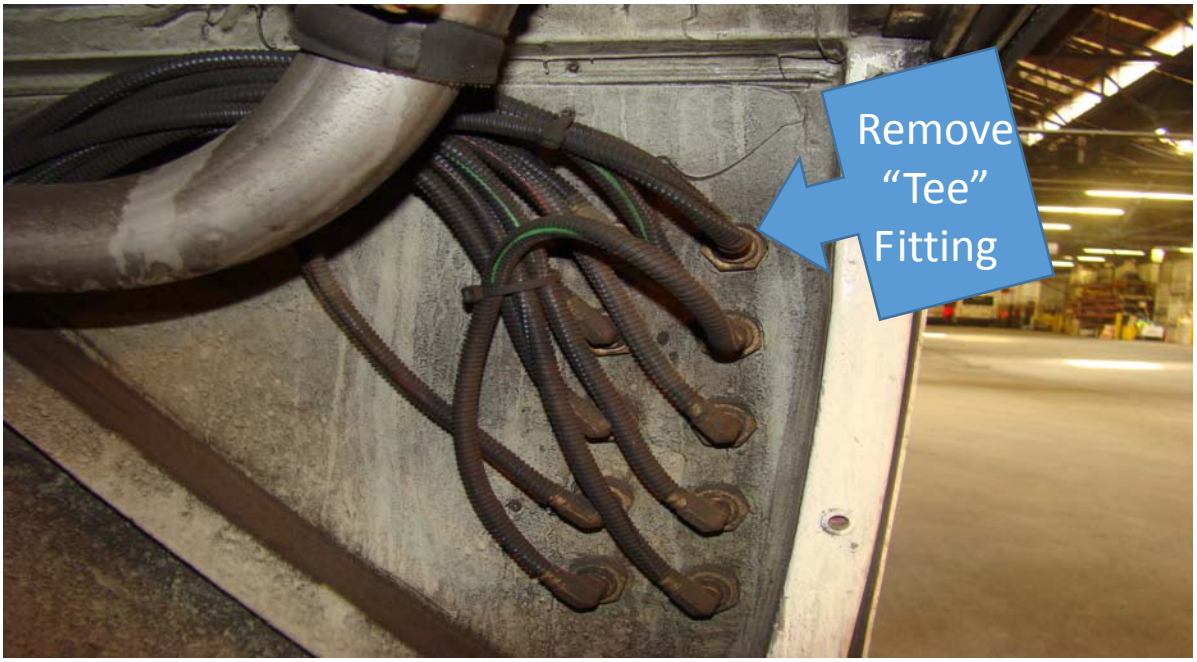
Necessary parts: NR

Necessary tools: Basic Hand Tools

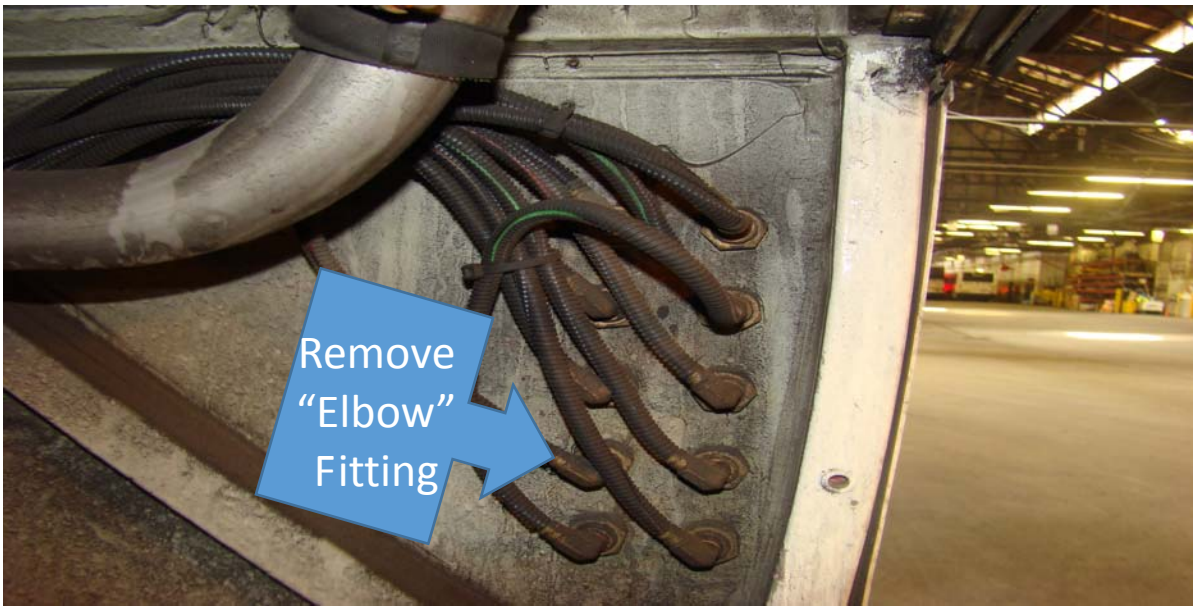
SAFETY PRECAUTIONS MUST BE FOLLOWED ACCORDING TO ACCEPTED INDUSTRY STANDARDS AND LOCAL/PROPERTY REQUIREMENTS.

1. Park the bus and apply the parking brake.
2. Shut off the batteries using the battery disconnect switch.
3. Open the second curbside access door to access the air lines to the pressure switches (see below).

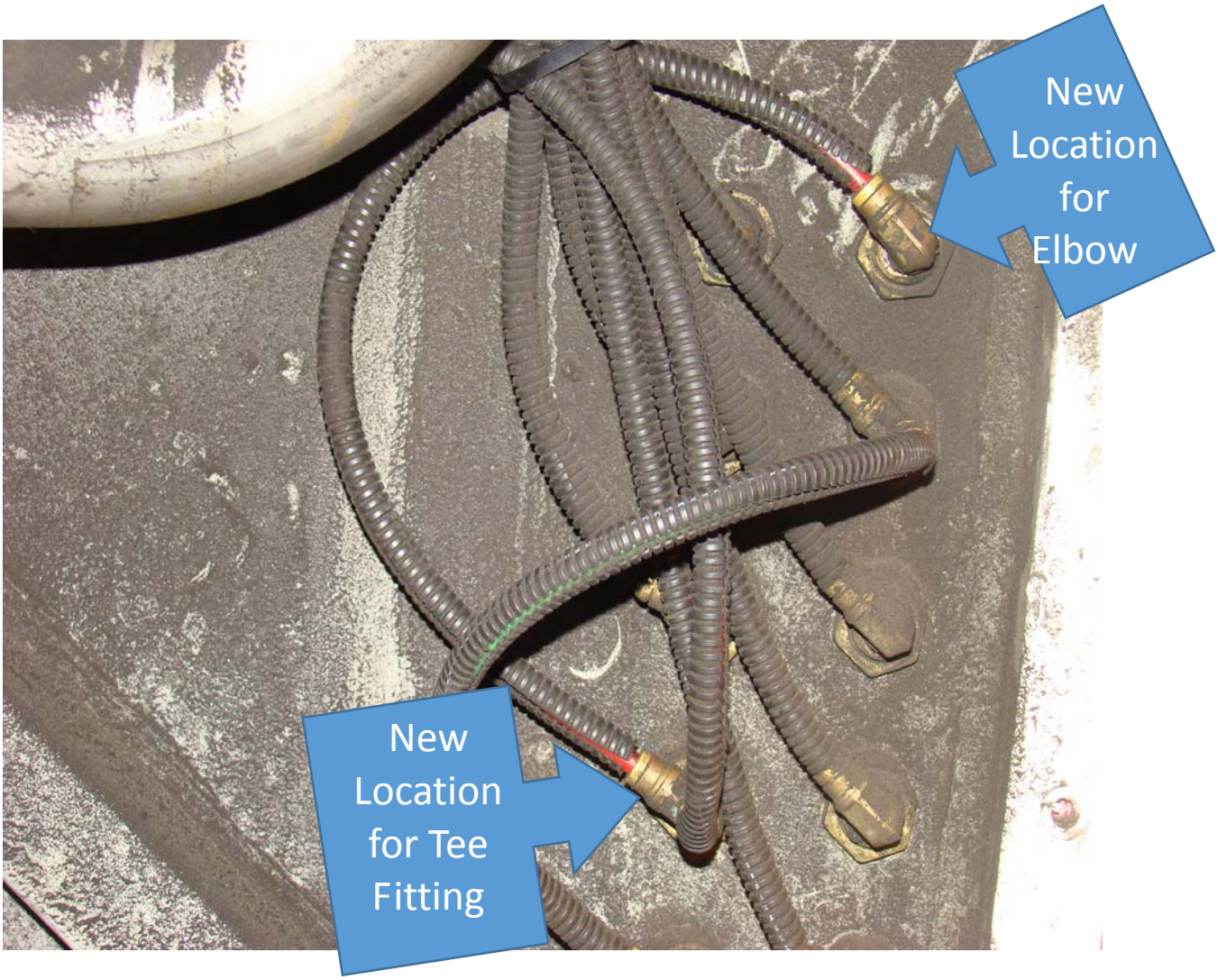
4. Disconnect the air line from the Tee fitting and remove the Tee fitting (see below). Save the Tee fitting as it will be reused later during reinstallation.



5. Disconnect the air line from the elbow shown below and remove the elbow (see below). Save the elbow as it will be reused during reinstallation.



6. Install the Tee Fitting previously removed in step 4 and install to the port where the elbow was removed in step 5 (see below). Install the elbow removed in step 5 and install to the port where the Tee Fitting was removed in step 4 and reconnect air lines (see below).



7. Tie wrap any loose air lines.
8. Turn on the batteries using the battery disconnect switch.
9. Start the unit, operate the brakes and check for air leaks at the previously connected air lines.
10. Close the exterior access door and lock.