

**New Jersey Transit: Fuel Tank Pressure Relief Valve
Replacement / Adapter Installation**



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Property and Top Bus Number: New Jersey Transit – 31 LFW – 2012 - 305000



Issue: Fuel Seeps onto top of fuel tank if overfilled

Reason/ cause: Fuel Tank Flange Holes Do Not Match Pressure Relief Valve Pattern – Pressure Relief Valve Leaking Fuel Due to Valve Bolt Holes Being Too Large

Solution: Install Adapter Plate to Fuel Tank Flange and Replace Existing Pressure Relief Valve

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Number of affected buses: 38 (1601 has Correct Pattern on Fuel Tank Flange for PRV)

Estimate repair hours/bus: .75

Engineering Documentation:

Necessary parts:

Adapter Flange – Emco Wheaton – 801515
Gasket, Flange – Emco Wheaton – 801516
Screws – Emco Wheaton – 406626
Poppet Assy PRV – Emco Wheaton – 492745
Gasket, PRV – Emco Wheaton - 408098
Lockwashers – Emco Wheaton – 470083
O-Ring – Emco Wheaton - 298828

Necessary tools:

Basic hand tools

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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. Shut off the batteries using the battery disconnect switch.
3. Locate and open the fuel tank inspection cover (see below).



4. Remove the four screws that fasten the PRV shroud to the existing PRV valve (see below), discard screws, lock washers and shroud.



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5. Remove the five screws that fasten the existing PRV valve to the fuel tank flange (see below). and discard the removed PRV valve and gasket (screws and lock washers will be used later in this work instruction).



6. Clean the fuel tank flange surface (see below), be careful not allow debris to enter the fuel tank while cleaning surface.



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7. Install new gasket (PN 801516) and adapter plate (PN 801515) to the fuel tank flange using the hardware removed in step 5 and tighten hardware securely (see below).



8. Install new gasket (PN 408098) and new PRV valve (PN 492745) using screws and lock washers provided (PN 406626 and 470083) to the adapter previously installed in step 7. Tighten hardware securely (see below).



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9. Install new PRV shroud (PN 492745) with o-ring (PN 298828) using the screws and lock washers provided (PN 406626 & 470083). Tighten the hardware securely (see below).



10. Remove any debris caused by performing this retrofit.
11. Reinstall the fuel tank inspection cover.