



INSTRUCTION TO SERVICE

ITS: 5678	
SECTION:	549 HVAC
WRITTEN BY:	Kevin Robinson
SUBJECT:	Remove and replace EMP booster pump.

ITS5678

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PROCEDURE:

Inspection

1. Turn the main battery disconnect switch to the “OFF” position.
2. Locate the booster pump and review the date code and the EMP pump part number.
 - a. If the date code is equal to or greater than listed in the chart below, the pump has been updated and does not need to be replaced.
 - b. If the EMP part number on the pump does not match one of the numbers listed in the chart, replace the pump.

EMP PN	Updated product if date code is equal or greater
1030002277PA04	238-13
1030002277PA01	238-13
1030002278PA01	233-13
1030002276PA01	234-13



**Julian date code
(Day – Year)
(277 – 13 = Oct. 4, 2013)**

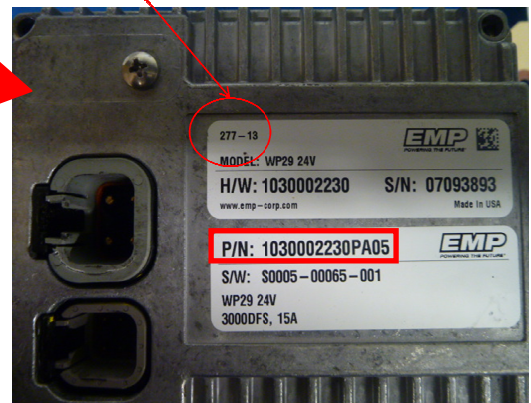


Figure 1: Location of Serial Number on an EMP Booster Pump

Remove and Replace Booster Pump (As Required)

3. Close the valves.
 - a. Close valve downstream from the booster pump.
 - b. Close valve upstream from the booster pump.
4. Remove the HVAC booster pump from the bus.
 - a. Disconnect the electrical connection.
 - b. Disconnect the hose clamp from the inlet side of the HVAC booster pump.
 - c. Disconnect the hose clamp from the outlet side of the HVAC booster pump.



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5. Install new HVAC booster pump
 - a. Install the new HVAC booster pump (NF PN 523963) to the bus.
 - b. Re-attach the two silicone fittings to the new booster pump. Torque the hose clamps 30-70 in-lbs.
 - c. Reconnect the bus harness to the HVAC booster pump.
6. Open the valves closed previously.
 - a. Open valve downstream from the booster pump.
 - b. Open valve upstream from the booster pump.
7. Remove all tools and debris and return the bus to service condition.
8. Turn the main battery disconnect switch to the "ON" position.



NEW FLYER

LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Remove EMP booster pump and replace.	1	2.0	2.0

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	523963	PUMP-BOOSTER EMP WP29 3500RPM	1	EA	