



## INSTRUCTION TO SERVICE

<b>ITS: 5652</b>	
<b>SECTION:</b>	549 HVAC
<b>WRITTEN BY:</b>	Kevin Robinson
<b>SUBJECT:</b>	Remove and replace EMP booster pump

# ITS5652

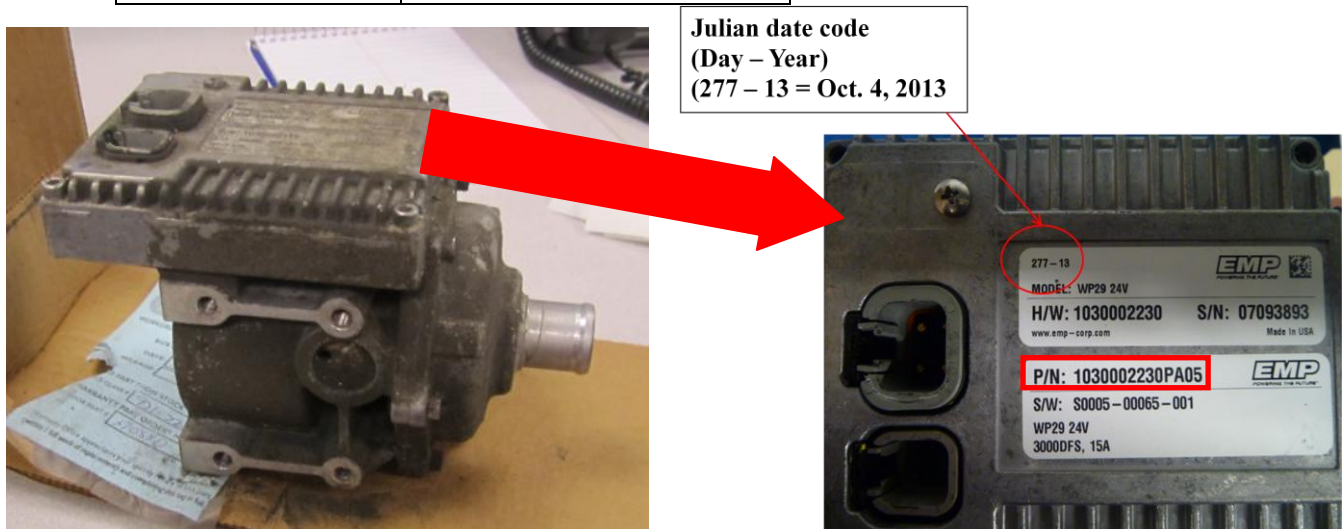
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**PROCEDURE:**

**Inspection**

1. Turn the main battery disconnect switch to the “OFF” position.
2. Locate the booster pump. Refer to the New Flyer Parts or Service Manuals, as required.
3. 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



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

4. Remove and replace booster pump, as required. Refer to the New Flyer Parts or Service Manuals, as required.
5. De-aerate the coolant system. Refer to the New Flyer Parts or Service Manuals, as required.
6. Review booster pump for leaks and repair as required.
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	523856	PUMP-BOOSTER EMP WP29 3000 RPM	1	EA	