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INSTRUCTION TO SERVICE ITS: 3456

SECTION: 231	MODEL: <input type="checkbox"/> 30FT <input type="checkbox"/> 35FT <input checked="" type="checkbox"/> 40FT <input type="checkbox"/> 60FT	TYPE: <input type="checkbox"/> HIGH FLOOR	WRITTEN BY: Bik Dhaliwal
COOLING SYSTEM	<input checked="" type="checkbox"/> DSL <input checked="" type="checkbox"/> CNG <input type="checkbox"/> LNG <input type="checkbox"/> ELEC	<input checked="" type="checkbox"/> LOW FLOOR	

OBJECTIVE/SUBJECT:
Change Power Steering Line NF PN 323026

NOTE: THIS ITS IS TO BE DONE IN CONJUCTION WITH OR AFTER ITS 3419 IS PERFORMED

PROCEDURE:

1. Turn the main battery disconnect switch to the "OFF" position.
2. Raise coach in accordance with the New Flyer Service Manual or use a service pit.
3. Open the rear engine access door.

NOTE: Place a drip tray underneath at the ends of the power steering line and hydraulic manifold to catch any fluid runoff.

4. Undo stauff clamps retaining the power steering, hydraulic fan and oil cooler lines.
5. Disconnect the existing power steering line and the attached line that runs to the hydraulic manifold. Use caps to ensure manifold does not get contaminated with dirt.
6. Remove the brackets shown in Figure 1.

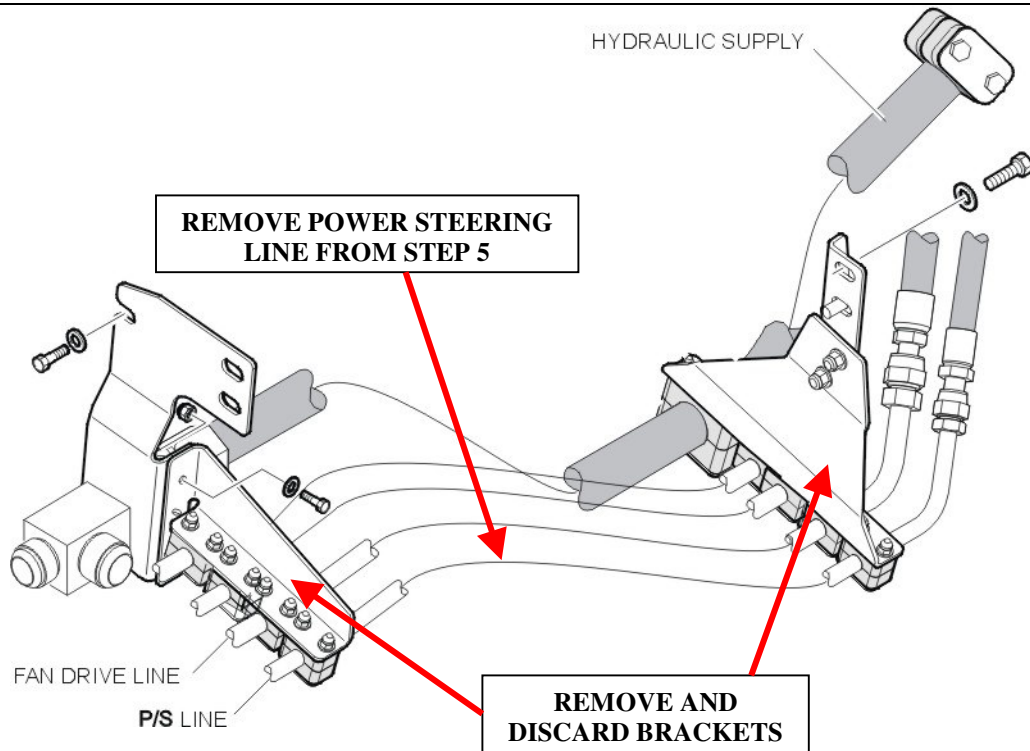


Figure 1: Bracket Removal

7. Insert the new hydraulic P/S tube bracket (NF PN 320224) in place of the removed bracket and install using M12 bolts (NF PN 040851) and M12 washers (NF PN 143437).
8. Install the new hydraulic tubes mounting bracket (NF PN 320221) and install using Hex lock nuts (NF PN 40N04000) and washers (NF PN 10W04000).
9. Install the hydraulic P/S lines mounting bracket (NF PN 320222) using bolt (NF PN 10B06016), washers (NF PN 10W06000) and nuts (NF PN 40N06000).

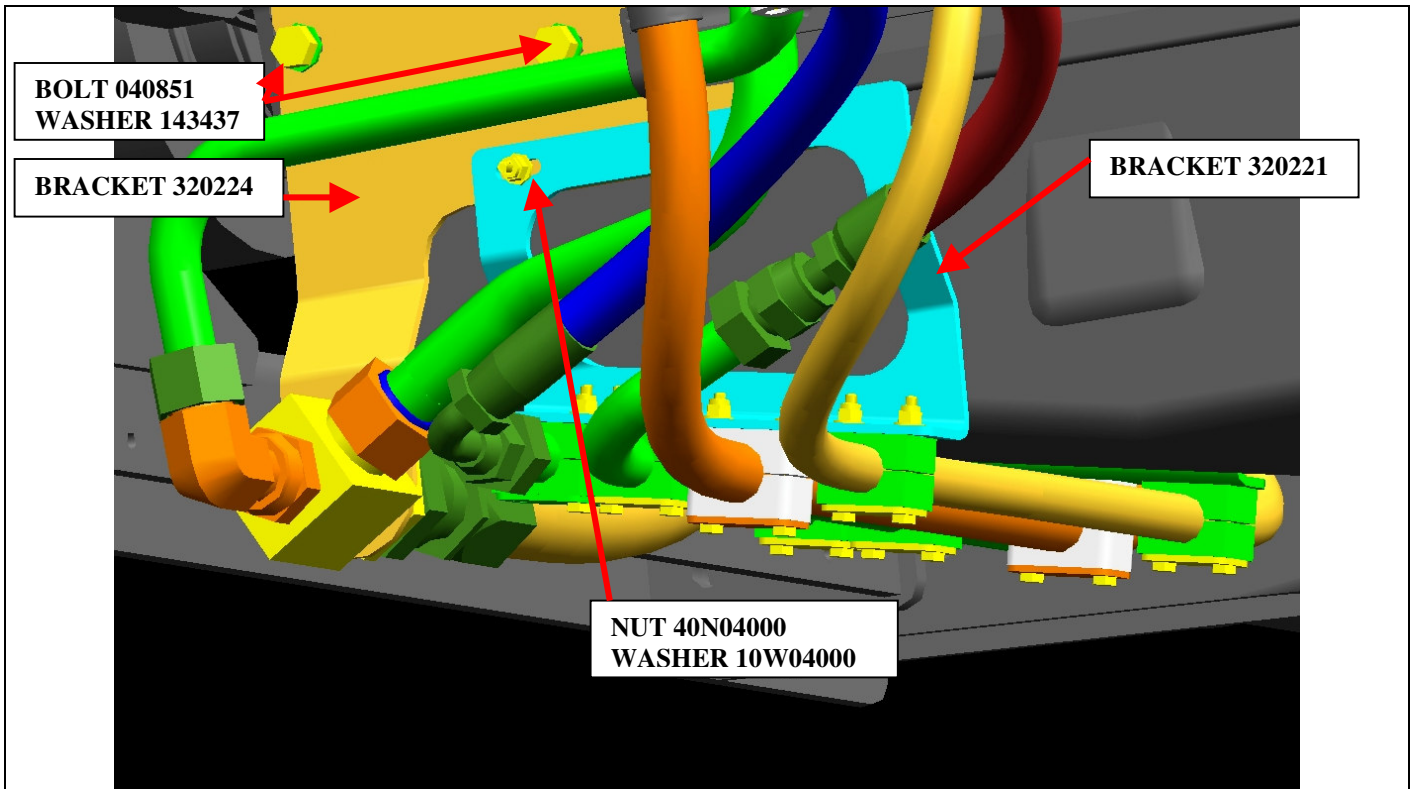


Figure 2: Bracket Installations

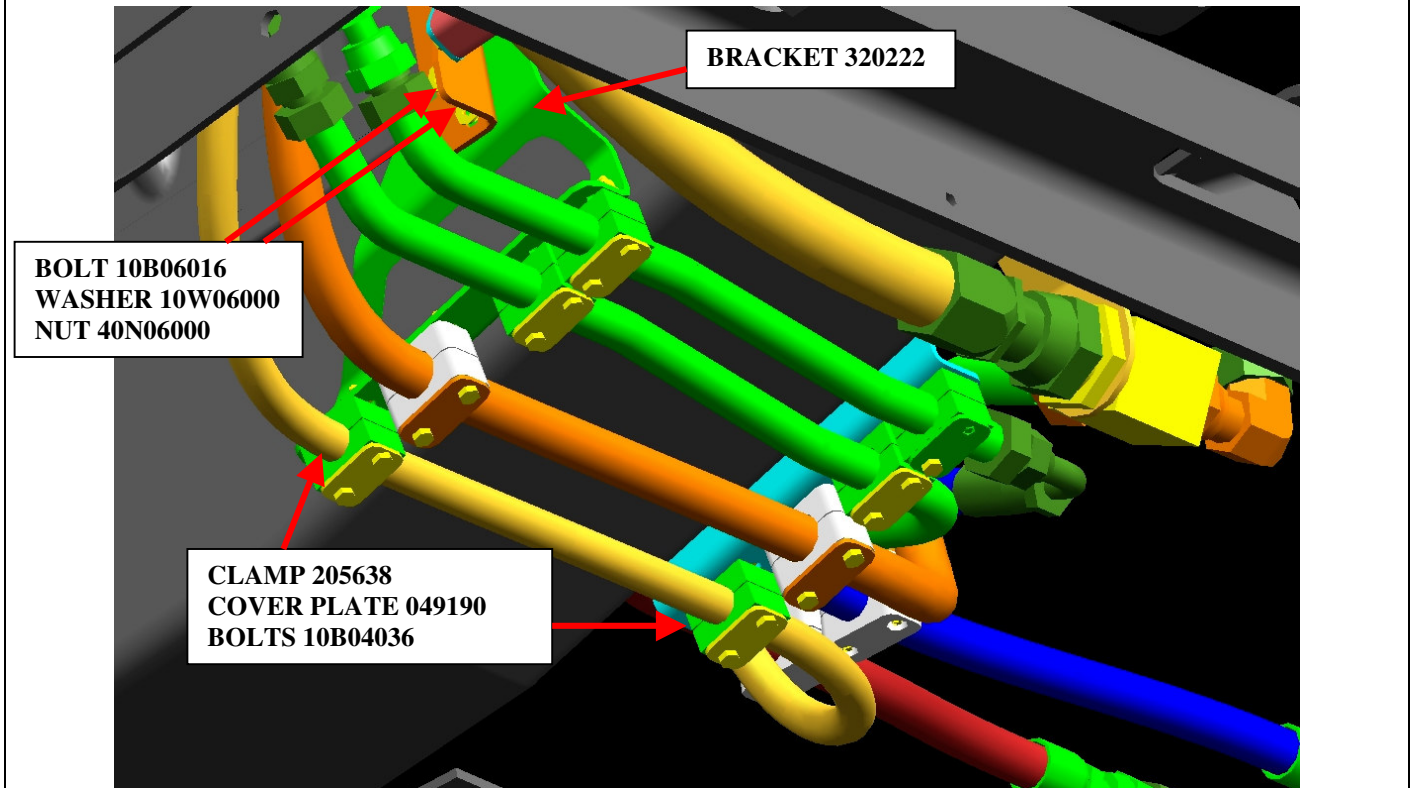


Figure 3: P/S Lines Bracket



10. Reattach the stauff clamps to the oil cooler lines and to the hydraulic line (NF PN 321287).
11. Install the new power steering line (NF PN 323026) from the power steering pump to the hydraulic manifold. Use the Figures 4-6 as guidance for the installation.

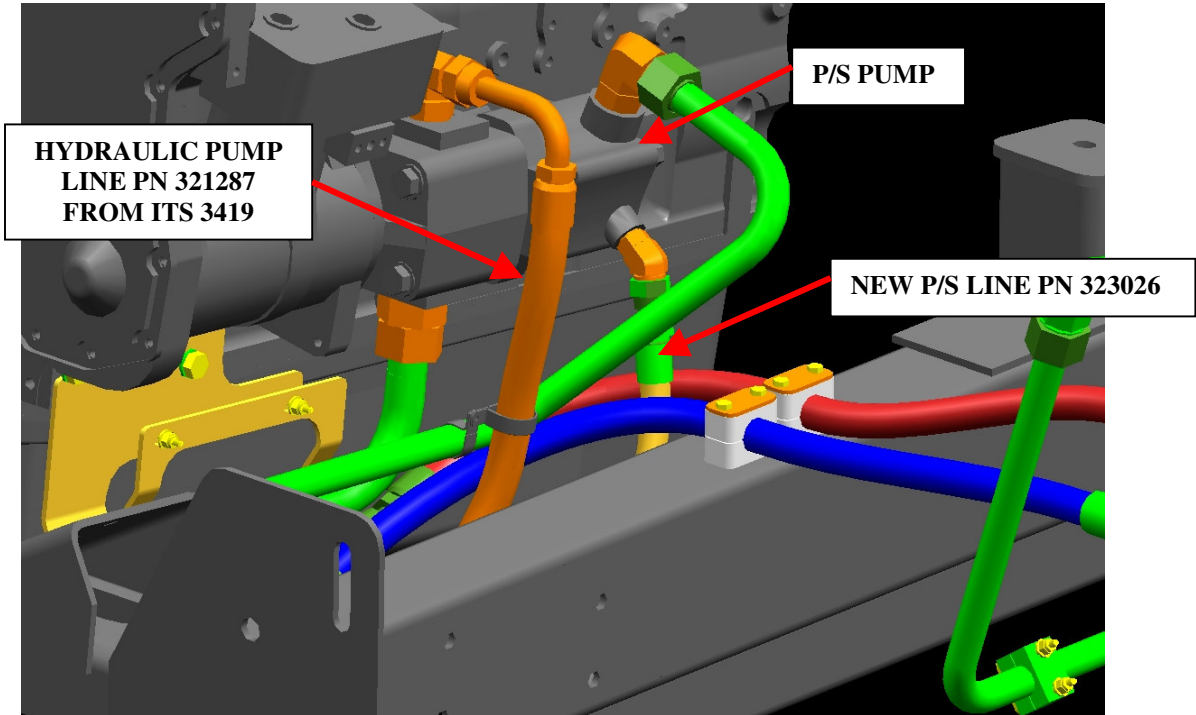


Figure 4: P/S Line Installation (Pump View)

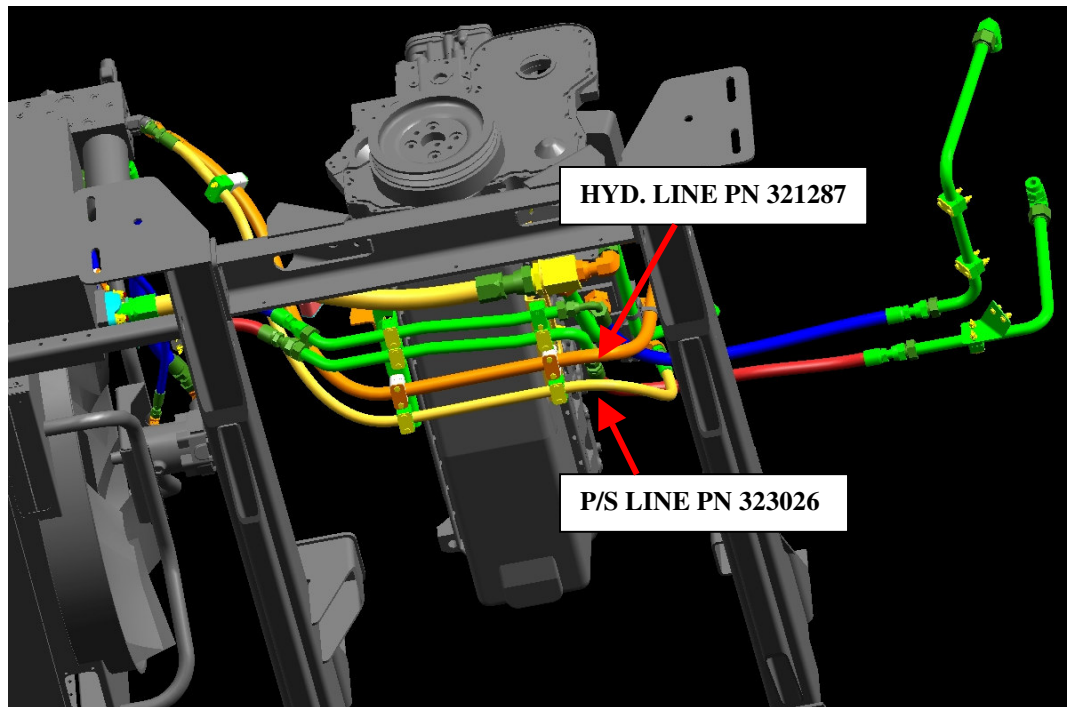


Figure 5: P/S Line Installation (Underside)

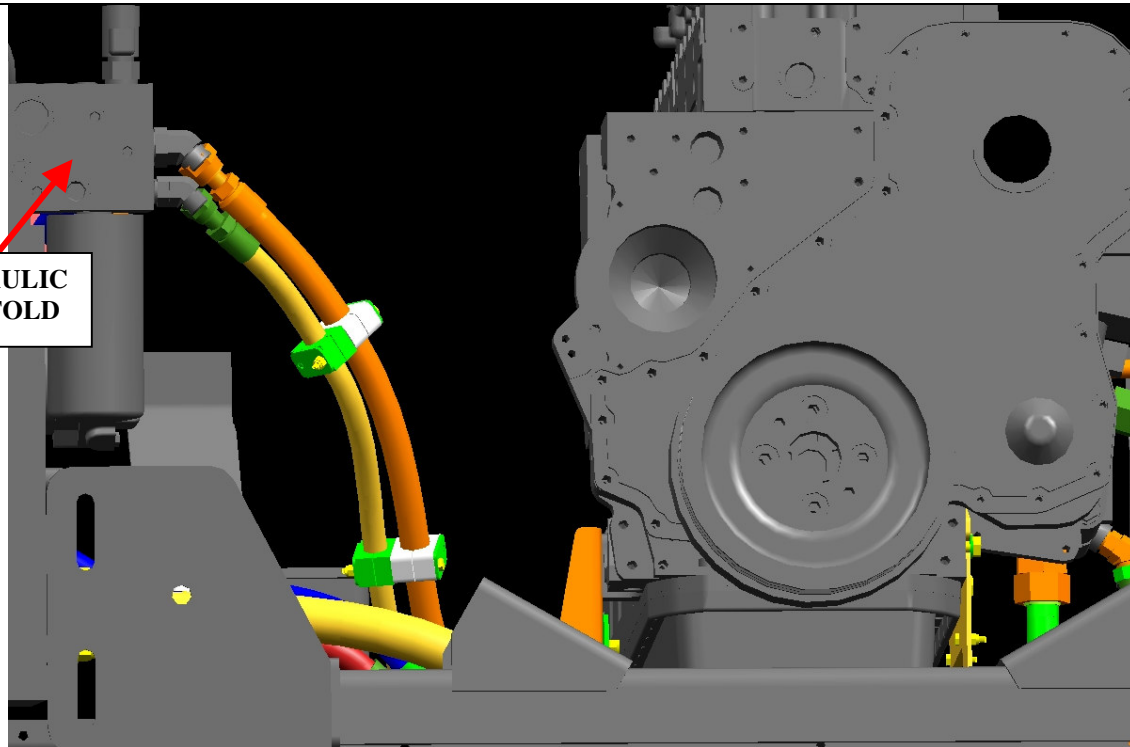


Figure 6: P/S Line Installation (Hydraulic Manifold End)

NOTE: Torque P/S Line (NF PN 323026) to 46-50 Lbs-Ft

12. Insert the staff clamps and hardware for the P/S line as shown in the Figure 3 above.
13. Close the rear engine access door.
14. If necessary, lower coach in accordance with the New Flyer Service Manual.
15. Turn the main battery disconnect switch to the "ON" position.



LABOUR ESTIMATE				
	Operation	Men	Hours	Labour Time M X HR
1	Change Power Steering Line 323026	1	1.75	1.75

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	323026	HOSE – ASSY FC510 – 10 FL71.0	1	EA	
2	320224	ASSY – BRKT HYDR P/S TUBES	1	EA	
3	320222	BRKT – MTG HYDR P/S LINES	1	EA	
4	320221	BRKT – MTG HYDR TUBES	1	EA	
5	040851	BOLT M12 X 1.75 X 25MM	3	EA	
6	143437	WASHER – FLAT M12	3	EA	
7	40N04000	NUT – HEX – LOCK – 1/4	2	EA	
8	10W04000	WASHER FLAT 1/4	2	EA	
9	40N06000	NUT 3/8 – 16 LOCK	2	EA	
10	10W06000	WASHER – FLAT 3/8 NOM	4	EA	
11	10B06016	BOLT 3/8 X 1.00	2	EA	
12	205638	CLAMP - .94 HOSE HIGH TMP	2	EA	
13	049190	PLATE – COVER 3/4 TUBE	2	EA	
14	10B04036	BOLT – HEX 1/ 4 UNC x 2.25	4	EA	
15	288842	ASSY – SPLIT CLP BRKT GP3	2	EA	