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INSTRUCTION TO SERVICE ITS: 3537

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

Install new hydraulic tubes off the fan pump and the power steering pump

PROCEDURE:

1. Turn the main battery disconnect switch to the "OFF" position.
2. Open the rear engine access door.
3. Raise coach in accordance with the New Flyer Service Manual or use a service pit.
4. Remove the following lines that connect from the pumps to the hydraulic reservoir: Hydraulic pump pressure tube assembly (NF PN 289118), GH195-12 FL24 Hose Assembly (NF PN 290841), P/S pump pressure tube assembly (NF PN 303051), FC510-10 FL25 Hose Assembly (NF PN 290840). Store clamps for reinstallation.
5. Pre-assemble and install the P/S tube mounting bracket (NF PN 322301) and hydraulic fan tube bracket (NF PN 322287) as shown in Figure 1 using 1/2" UNC Bolt (NF PN 10B08020) and 1/2" Washers (NF PN 20W08000).
6. Install 90 Degree elbow (NF PN 324939) on top of the hydraulic pump.
7. Attach the new hydraulic pump tube (NF PN 328704) to the 90 Degree elbow (NF PN 324939) off of the hydraulic pump, through hose clamp on the Hydraulic tube support bracket (NF PN 289117) and to the hydraulic reservoir.



8. Install the new P/S steering tube (NF PN 328704) from the Power steering pump, through the hose clamps on the Hydraulic tube support bracket (NF PN 289117) and to the hydraulic reservoir.

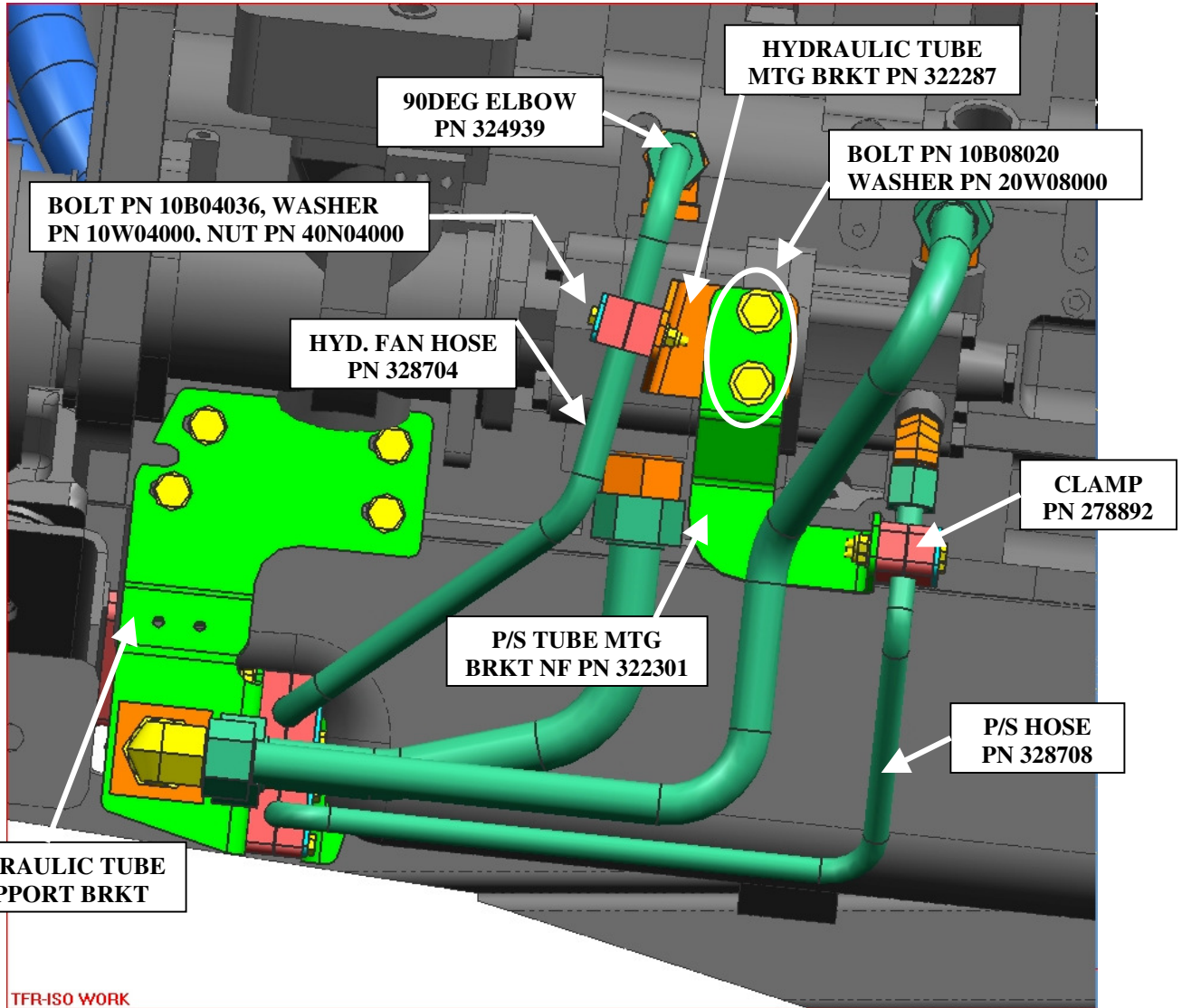


Figure 1 – New Hydraulic Hoses Setup

9. Attach the plate cover (NF PN 049190) and clamp (NF PN 278892) to the hydraulic tubes using 1/4" Bolt (NF PN 10B04036), Washer (NF PN 10W04000), and lock nut (NF PN 40N04000).
10. If necessary, lower coach in accordance with the New Flyer Service Manual.
11. Close the rear engine access door.
12. Turn the main battery disconnect switch to the "ON" position.
13. Run coach as per normal procedure and check for leaks. Repair as necessary.



LABOUR ESTIMATE				
	Operation	Men	Hours	Labour Time M X HR
1	Install new hydraulic fan and P/S pump tubes	1	2.0	2.0

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	049190	PLATE COVER 3/4 TUBE	2	EA	
2	10B04036	BOLT HEX 1/4" 20 UNC X 2 1/4" LG	4	EA	
3	10B08020	BOLT HEX 1/2" 13 UNC X 1 1/4" LG	2	EA	
4	10W04000	WASHER-FLAT 1/4 NOM	4	EA	
5	205637	CLAMP-.75 HOSE HIGH TMP	1	EA	
6	20W08000	WASHER FLAT HARDENED 1/2"	2	EA	
7	278892	CLAMP-SINGLE 5/8 OD HTM	1	EA	
8	322287	BRKT-MTG HYDR TUBE	1	EA	
9	322301	BRKT-MTG P/S TUBE	1	EA	
10	324939	ELBOW-90D-12 ORB/ORFS SWVL	1	EA	
11	328704	ASSY-TUBE HYDR PUMP PRESS	1	EA	
12	328708	ASSY-TUBE P/S TUBE PRESSURE	1	EA	
13	40N04000	LOCKNUT 1/4" 20 UNC	4	EA	