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INSTRUCTION TO SERVICE ITS: 3503

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: Carlitos Cura
COOLING SYSTEMS	<input checked="" type="checkbox"/> DSL <input type="checkbox"/> CNG <input type="checkbox"/> LNG <input type="checkbox"/> ELEC	<input checked="" type="checkbox"/> LOW FLOOR	

OBJECTIVE/SUBJECT:

Replace existing P/S SST tube hydraulic lines (pump to reservoir) to flexible hose design.

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 hydraulic lines from pump to reservoir; Hyrd Pump Tube P/N 307432, P/S Pump Tube P/N 307339, Hose GH195-12 FL26 P/N 307563, Hose FC510-10 FL26.5 and attaching clamps. See Fig. 1 on the following page.

NOTE: Place a drip pan under hydraulic line ends when removing them to contain hydraulic fluid spill. Discard hydraulic tubes and hoses. Set aside clamps, covers and bolts for reuse.

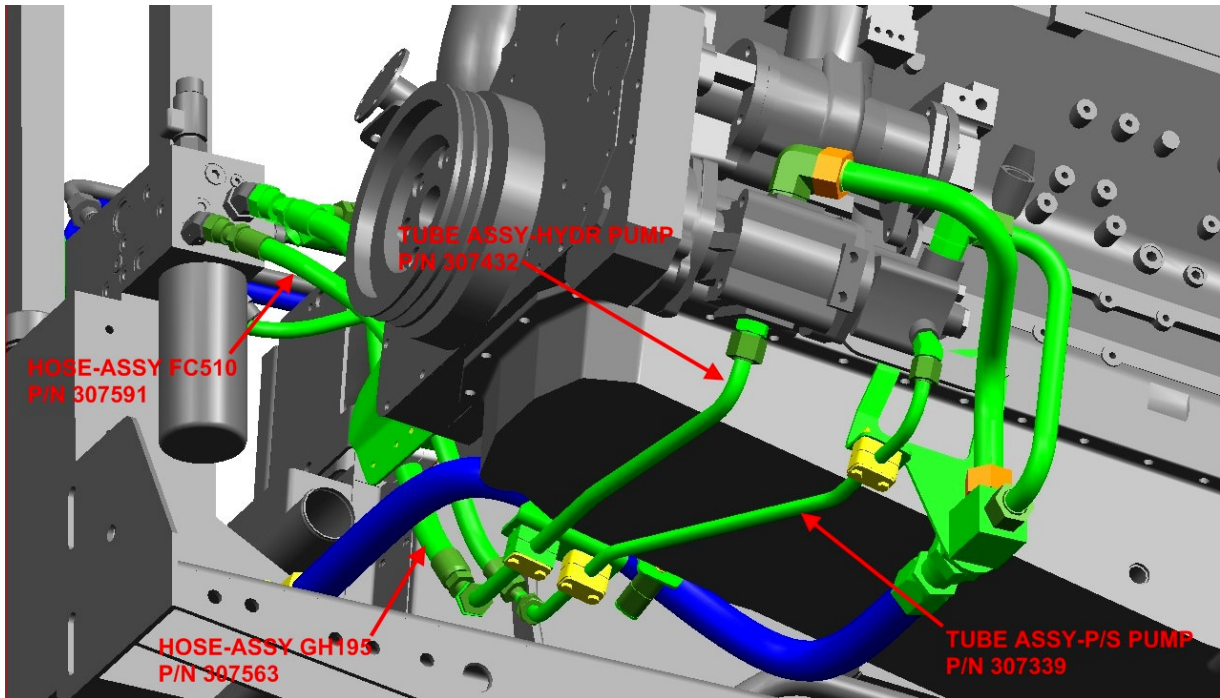


Fig. 1: Existing Hydraulic Lines (pump to reservoir)

- 5. The two-piece tube/hose hydraulic line will be replaced by a one-piece hose assy. Install new hydraulic lines as shown in Fig. 2 below.

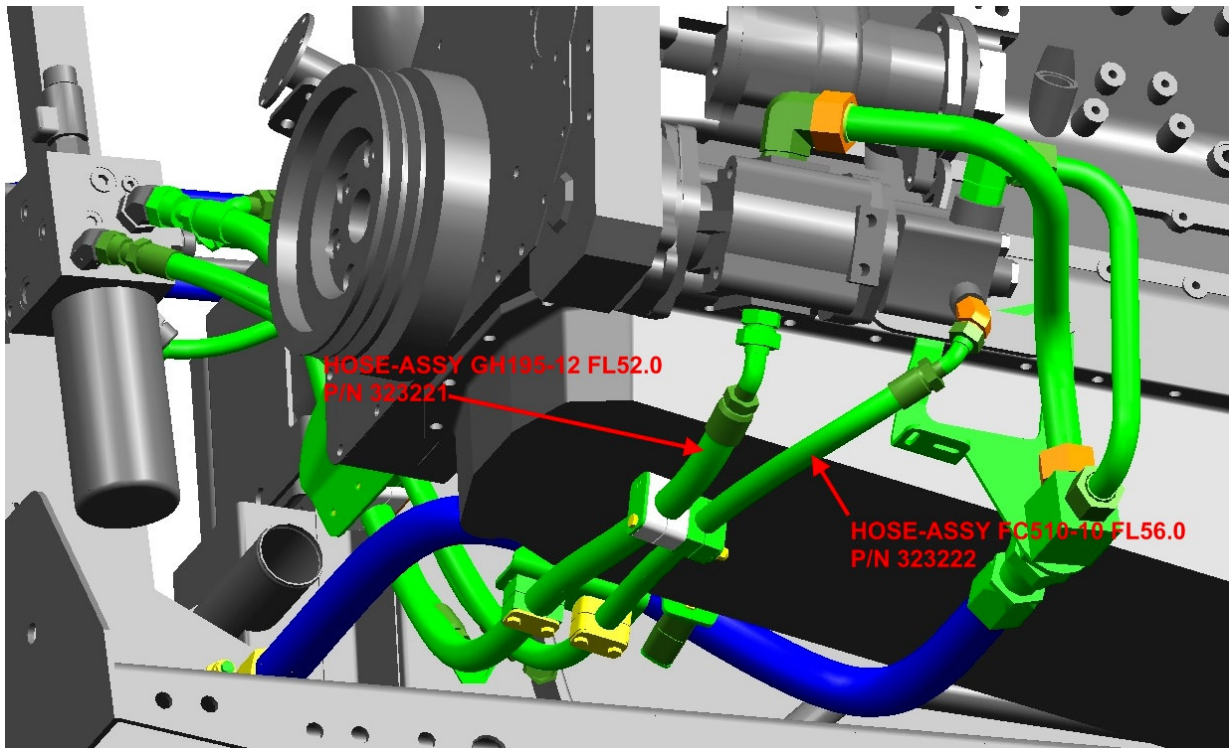


Fig. 2: New Hydraulic Hose Installation



6. Install new Hose-Assy FC510-10 FL 56.0 P/N 323222 from P/S pump to the 45 deg. Elbow on the hydraulic reservoir manifold (SP). Use the supplied clamping hardware and some hardware from step 3 to secure the hose as shown in Fig. 2.

Torque fittings to 46 – 50 LB-FT.

7. Install new Hose-Assy gh195-12 FL 52.0 P/N 323221 from hydraulic fan pump to the 45 deg. Elbow on the hydraulic reservoir manifold (FP). Use the supplied clamping hardware and some hardware from step 3 to secure the hose as shown in Fig. 2.

Torque fittings to 65 – 70 LB-FT.

8. If necessary, lower coach in accordance with the New Flyer Service Manual.
9. Re-fill hydraulic fluid to proper level.
10. Turn the main battery disconnect switch to the “ON” position.
11. Run the engine until it reaches normal operating temperature.
12. Turn the main battery disconnect switch to the “OFF” position.
13. Inspect newly installed hydraulic lines (NF PN 279951) for any leaks or cracks.
14. Check hydraulic fluid level. Add if necessary.
15. Close the rear engine access door.
16. Turn the main battery disconnect switch to the “ON” position.



LABOUR ESTIMATE				
	Operation	Men	Hours	Labour Time M X HR
1	Remove and replace hydraulic line	1	1.0	1.0

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	323222	HOSE-ASSY FC510-10 FL56.0	1	EA	
2	323221	HOSE-ASSY GH195-12 FL52.0	1	EA	
3	288842	ASSY-SPLIT CLP BRKT GP3	1	EA	
4	288838	ASSY-SPLIT CLP BRKT GP4	1	EA	
5	205638	CLAMP-.94 HOSE HIGH TMP	2	EA	
6	098234	CLAMP-TUBE 30MM	2	EA	
7	049190	PLATE COVER 3/4 TUBE	1	EA	
8	068497	PLATE CLAMP COVER GR 4	1	EA	
9	10B04040	BOLT HEX 1/4" 20 UNC X 2 1/2" LG	2	EA	
10	10B04036	BOLT HEX 1/4" 20 UNC X 2 1/4" LG	2	EA	
11	10B04060	BOLT-HEX HEAD 1/4 X 3.75	1	EA	
12	10W04000	WASHER-FLAT 1/4 NOM	1	EA	
13	40N04000	LOCKNUT 1/4" 20 UNC	1	EA	

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Unit Of Measure	Notes
		NO SPECIAL TOOLS REQUIRED			