L4130 Hydraulic Disconnect Kit (SD097) Installation Instructions

I. Disassembly

The following procedures are provided for disassembly and repair of the L4130 Hydraulic Disconnect assembly. The 244176 parts coverage is attached for reference during installation of this update.

⚠ CAUTION

These instructions must be followed very closely and in the proper order. Failure to do so will result in damage to the 221129-piston ring (item 7) as the 240801-shift hub (item 8) is allowed to extend past the outer diameter of the adapter.

1. Remove 221712W - hex nuts (item 16A) from studs. Carefully pull the 240803 - disconnect housing (item 14) and attached items off of transmission. It is imperative that the 240800 - adapter (item 6) is not disturbed during removal of the disconnect housing.

2. Remove the following items from the disconnect housing:

a. 200616 - Cotter Pin (item 18)

b. 240805 - Input Flange (item 22)

c. 230010 - Deflector (item 23)

d. 230009 - Oil Seal (item 24)

e. 240156 - Snap Ring (item 25)

f. 240157 - Bearing (item 26)

g. 240806 - Shaft Assembly (item 27)

3. Carefully remove the items listed below while being very careful not to disturb the 240800 adapter (item 6):

a. 240154 - Washer (item 11)

b. 240802 - Spring (item 10)

c. 240801 - Shift Hub (item 8) with:

   1. 219676 - Piston Ring (item 9)
   2. 219677 - Piston Expander Ring (item 9A)
   3. 221129 - Piston Ring (item 7)
   4. 221130 - Piston Expander Ring (item 7A)

4. Inspect all parts and repair or replace as necessary.

II. Re-assembly

If the 240800 adapter (item 6) was removed for any reason (i.e. to replace the 240804-studs (item 17), it must be tightly reinstalled prior to completing the next step.

1. Install the new items listed below onto 240801 - shift hub (item 8):

a. 219676 - Piston Ring (item 9)

b. 219677 - Piston Expander Ring (item 9A)

c. 221129 - Piston Ring (item 7)

d. 221130 - Piston Expander Ring (item 7A)

2. Install the new 240801 - shift hub (item 8) into the existing 240800 - adapter (item 6). Again, this adapter must be mounted flush onto the transmission input. If it is not, there is a high risk of damaging the 221129 - seal ring (item 7).

3. Install the following new items on the 240799 - shaft (item 1).

a 240802 - Spring

b. 240154 - Washer

c. 240155 - Snap Ring

4. Install the new 212458 - O-ring onto the existing 240800 Adapter

5. Reassemble the disconnect assembly using the new parts provided in SD097. Tighten the 212312 input flange nut (item 19) enough to hold the assembly together. The nut will be tightened to specification after the disconnect is installed on the input of the transmission. Use Loctite 638 on the outer diameter of the 230009 - Oil Seal to ensure that the seal will stay in place. Following are items that are included in this procedure:

a. 240806 - Shaft Assembly (item 27)

b. 240157 - Bearing (item 26)

c. 240156-Snap Ring (item 25)

d. 230009-Oil Seal (item 24)

e. 230010-Deflector (item 23)

f. 240805-Yoke (item 22)

g. 212310-O ring (item 21)

h. 212311-Washer (item 20)

i. 212312-Nut (item 19)

6. Install the entire disconnect housing and shaft assembly onto the transmission.

7. Use the new 221712W - Hex Nuts (item 16A) and 200604 - Lock Washers (item 16) to reinstall the disconnect housing assembly onto the 240800 - Adapter (item 6).

8. Torque the input flange nut (item 19) to 400-450 lbs. ft.

9. Install the new 200616 - Cotter Pin (item 18)

10. Perform operational test to verify that disconnect is operating properly.