

JF011E-FC

Flow control valve repair for:
JF011E (RE0F10A, RE0F10B, F1CJA)

JF015E (RE0F11A)

JF016E (RE0F10D)

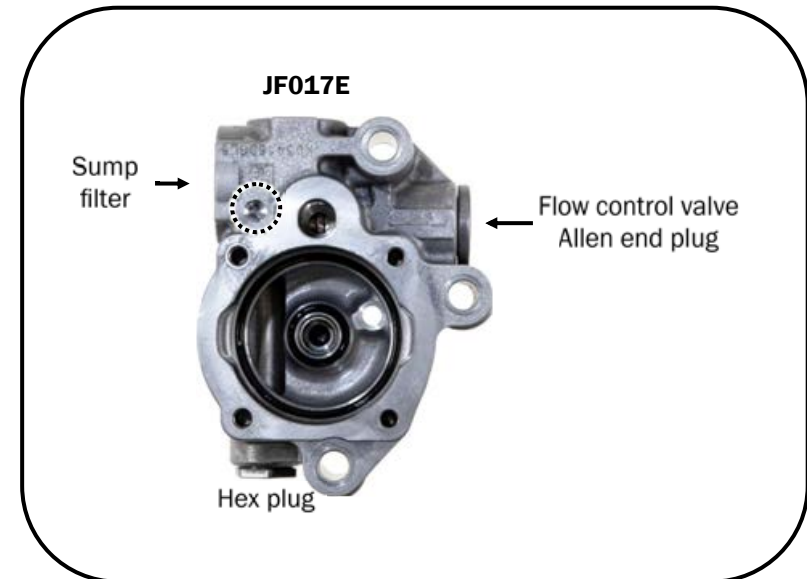
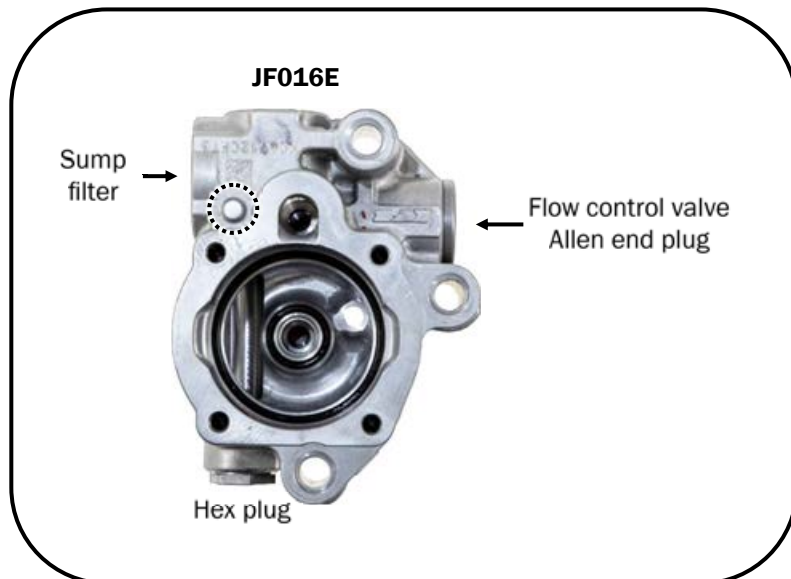
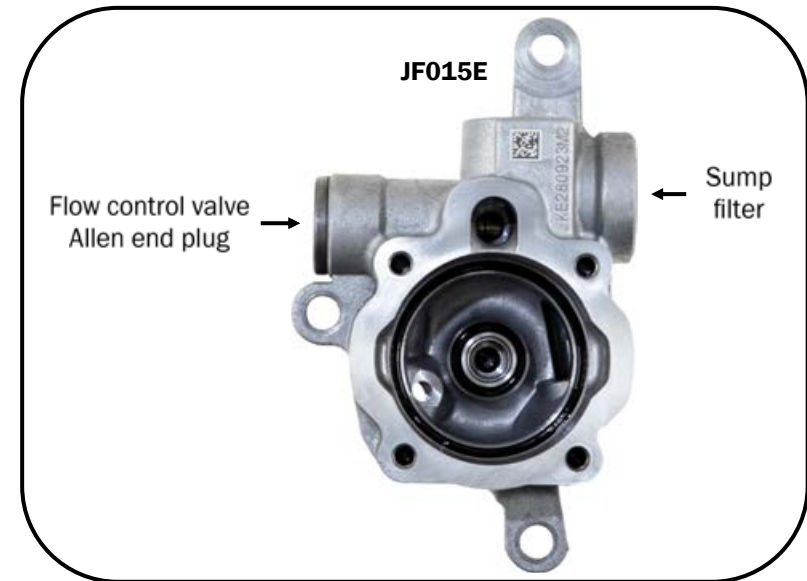
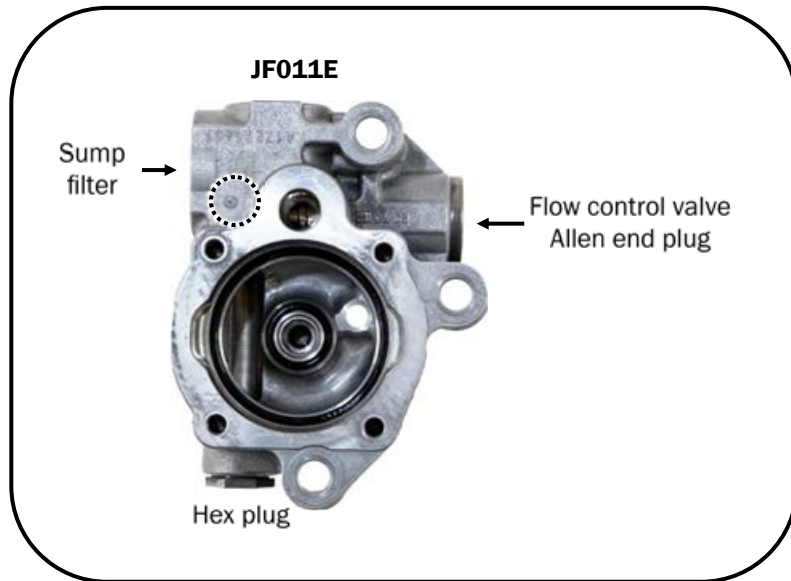
JF017E (RE0F10E, RE0F10H, RE0F10J)

Corrects/Prevents/Reduces:

No movement — Falls out of gear at idle — Shudder with throttle — Limp-in with pressure codes set

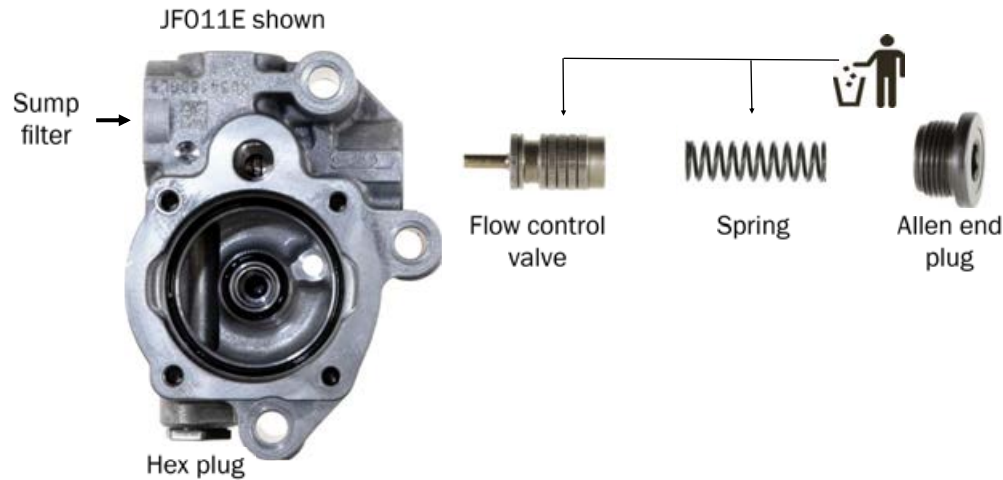


Pump identification

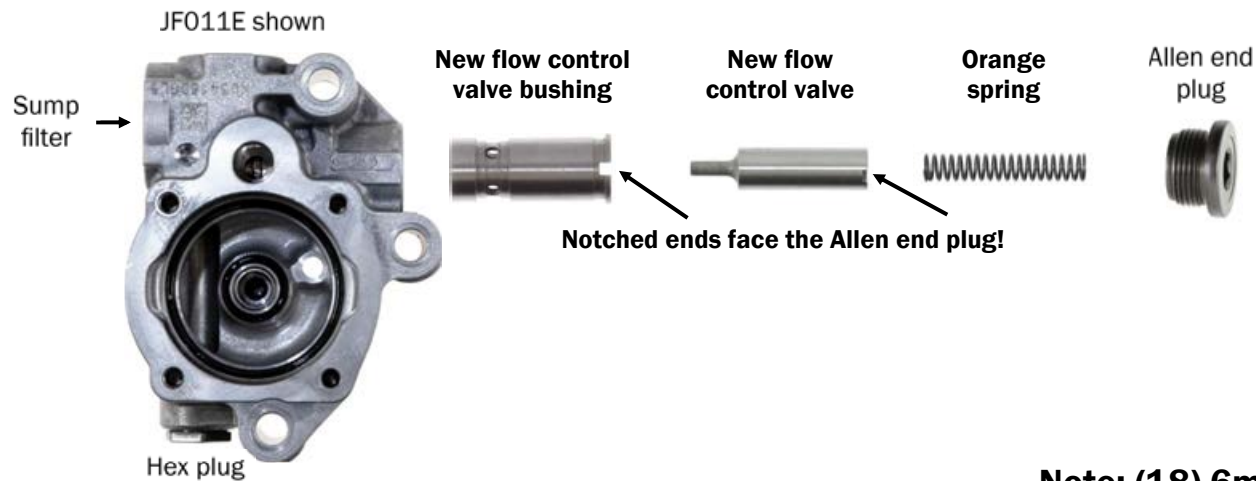


Installation instructions

1. Remove Allen end plug, then remove and discard original spring and flow control valve.



2. Clean the bore thoroughly, then install the **new flow control valve bushing**, **new flow control valve**, **orange spring**, and hex plug.



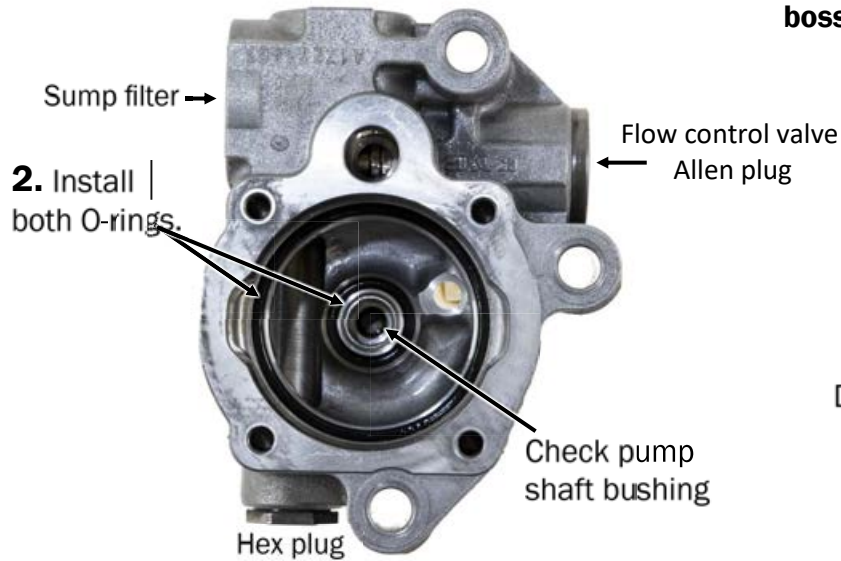
Note: (18) 6mm high strength steel balls are included for pulley/sheave servicing as a convenience to you.

JF011E pump reassembly information

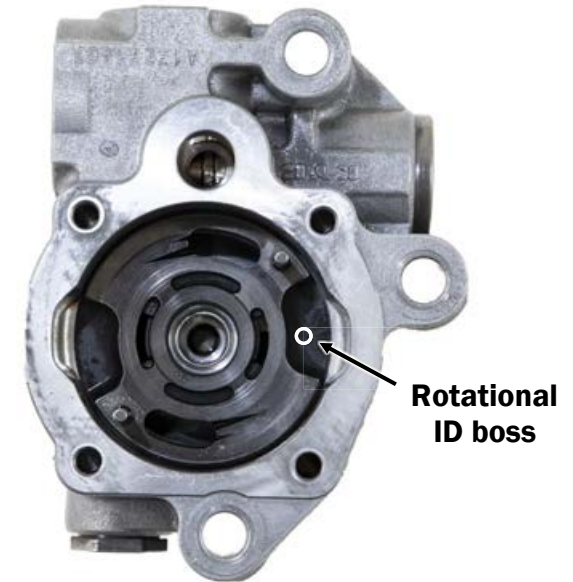
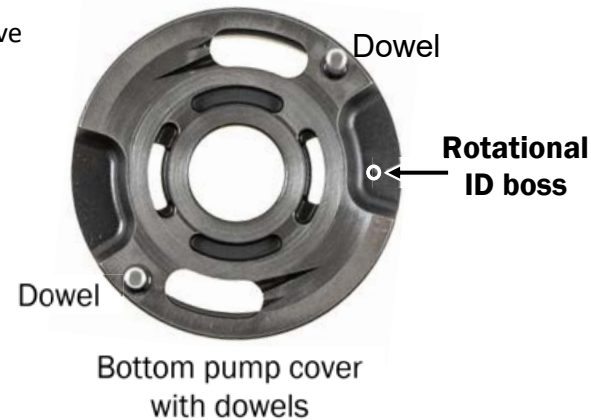
Installing the slide upside down creates noise and no move.

Installing pump parts without proper rotational orientation can create noise.

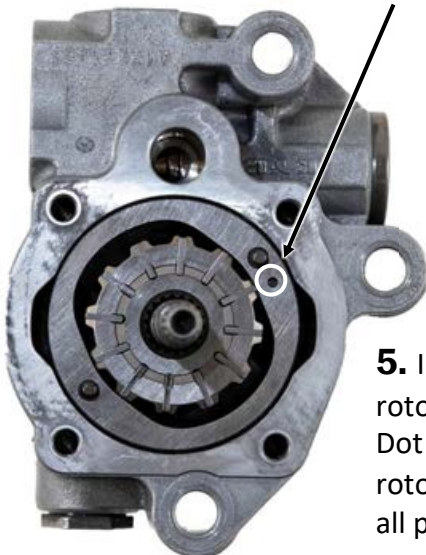
1. Rotate pump as shown.



3. Install bottom pump cover with dowels into housing. **Must rotate ID boss to 3:00 O'clock position.**



4. Install pump slide with flat side up. Must have **slide rotational ID dot where shown.**



5. Install pump shaft, rotor with ID dot down. Dot **not visible** when rotor is installed. Install all pump vanes.

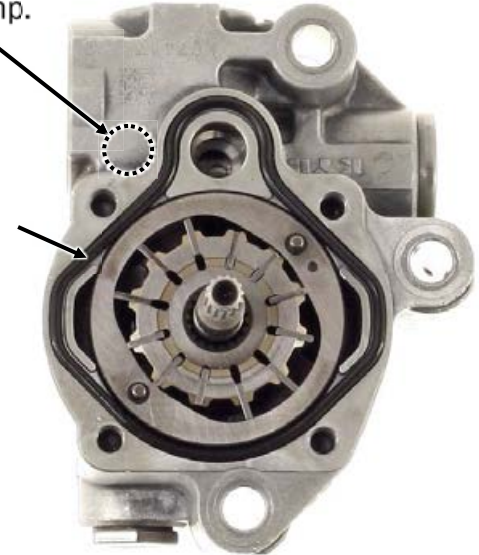
6. Install pump cover lining up the dowels and torque the bolts.



No raised boss or machined hole here is JF011E. It is a higher volume pump.

Pump with cover seal assembles the same as without. Always Install cover seal if pump has a groove for it.

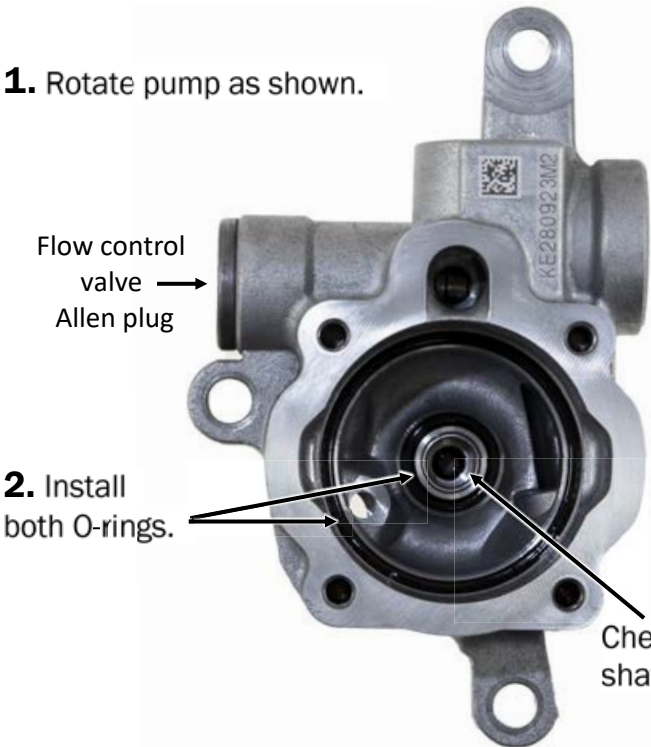
Submerge entire pump in CVT fluid and spin shaft to verify pump operation when done!



JF015E pump reassembly information

Installing the slide upside down creates noise and no move.
Installing pump parts without proper rotational orientation can create noise.

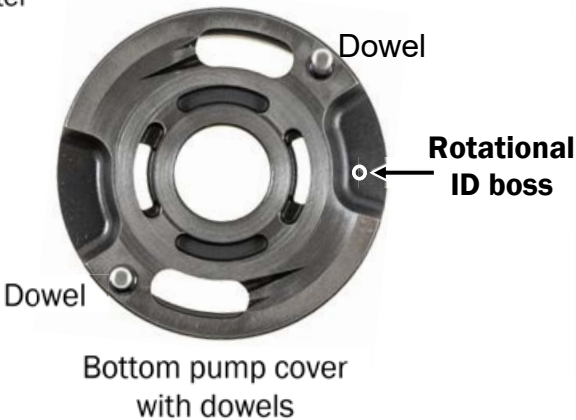
1. Rotate pump as shown.



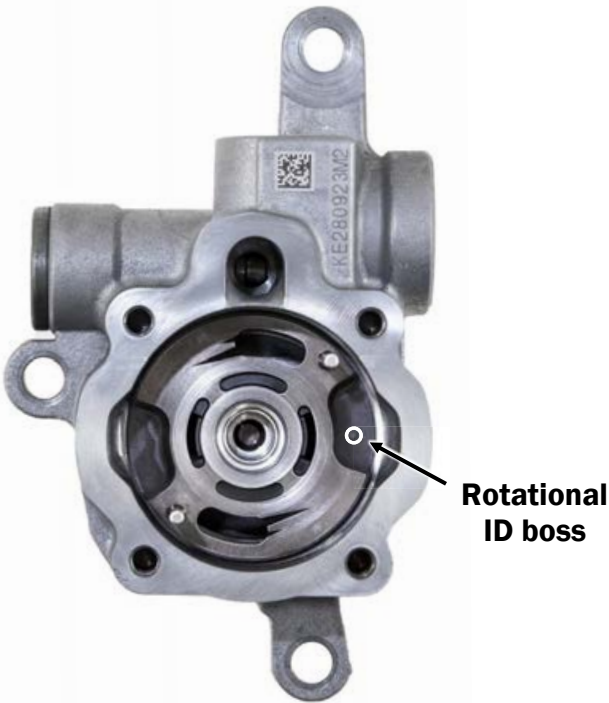
2. Install both O-rings.

Check pump shaft bushing

3. Install bottom pump cover with dowels into housing. **Must rotate ID boss to 3:00 O'clock position.**



Mounting ears is JF015.
It is a lower volume pump.

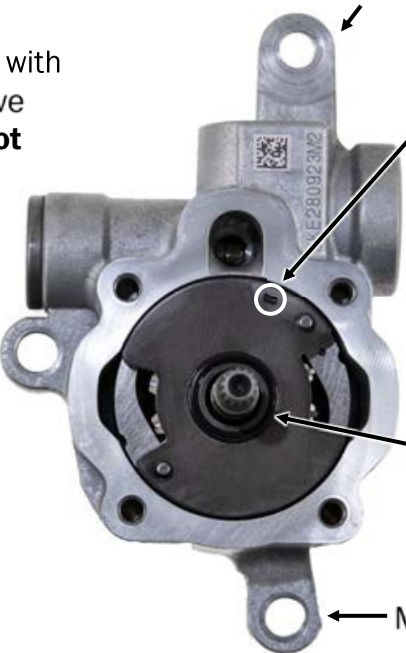


Submerge entire pump in CVT fluid and spin shaft to verify pump operation when done!

4. Install pump slide with flat side up. Must have **slide rotational ID dot where shown.**

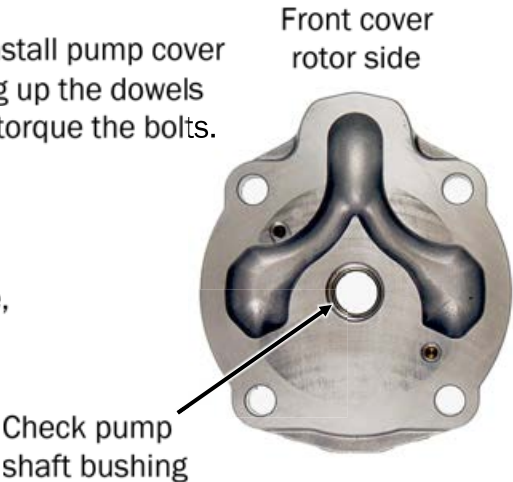


6. Install top pump wear plate with **rotational ID dot up and where shown.**



7. If top pump wear plate has groove here, it takes O-ring.

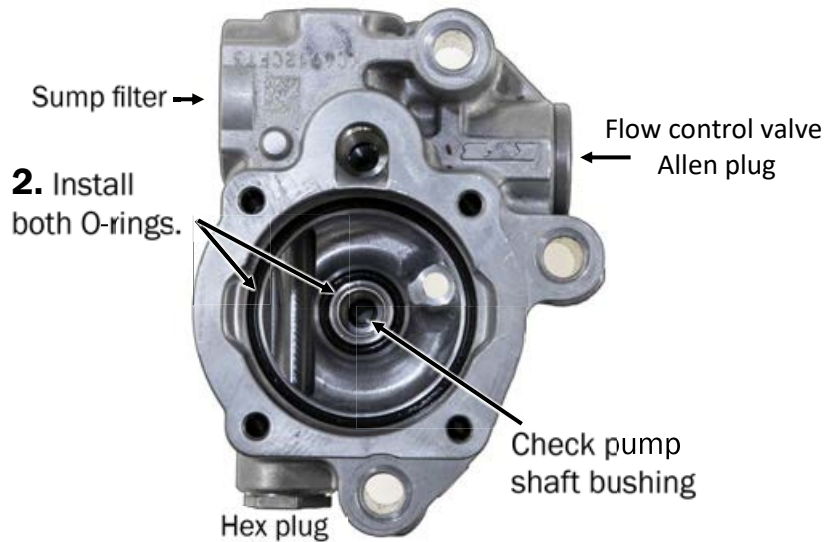
8. Install pump cover lining up the dowels and torque the bolts.



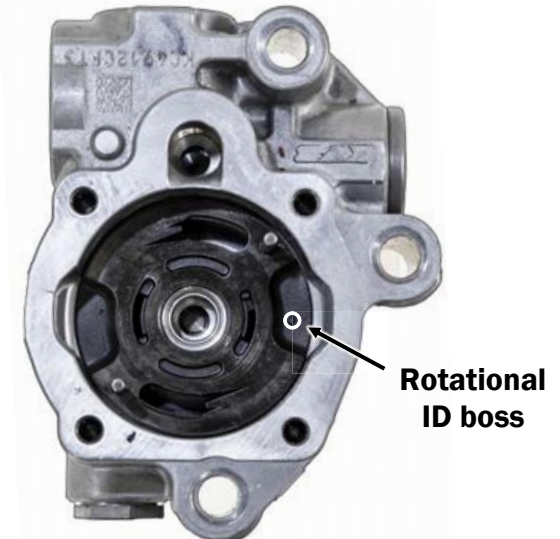
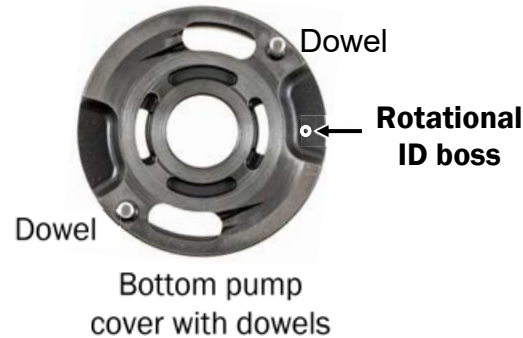
JF016E pump reassembly information

Installing the slide upside down creates noise and no move.
Installing pump parts without proper rotational orientation can create noise.

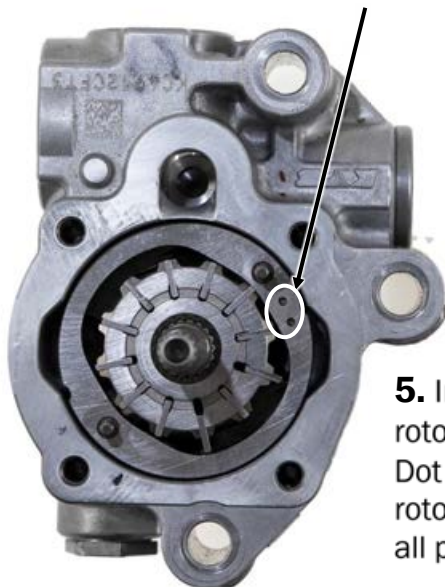
1. Rotate pump as shown.



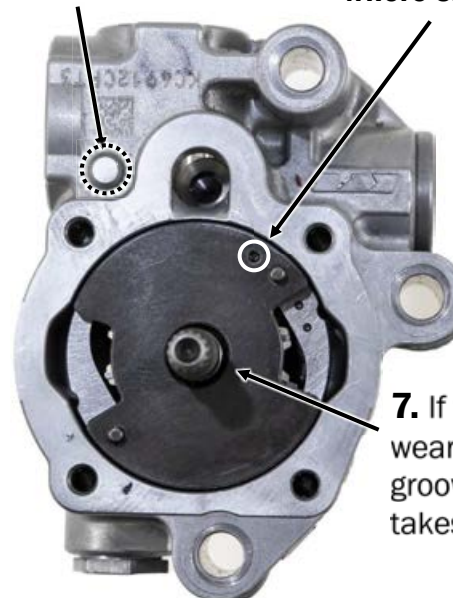
3. Install bottom pump cover with dowels into housing. **Must rotate ID boss to 3:00 O'clock position.**



4. Install pump slide with flat side up. Must have slide rotational two ID dots where shown.

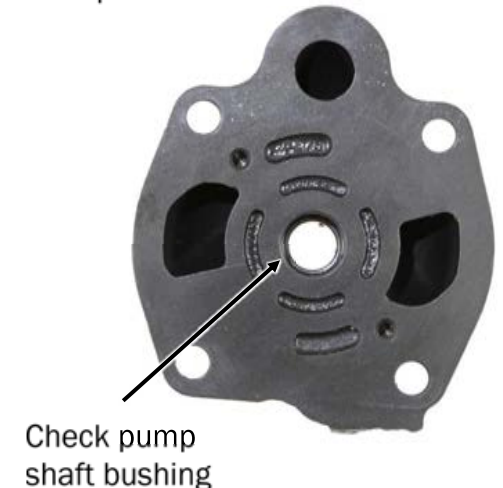


Raised boss here is JF016E. It is a lower volume pump.



Submerge entire pump in CVT fluid and spin shaft to verify pump operation when done!

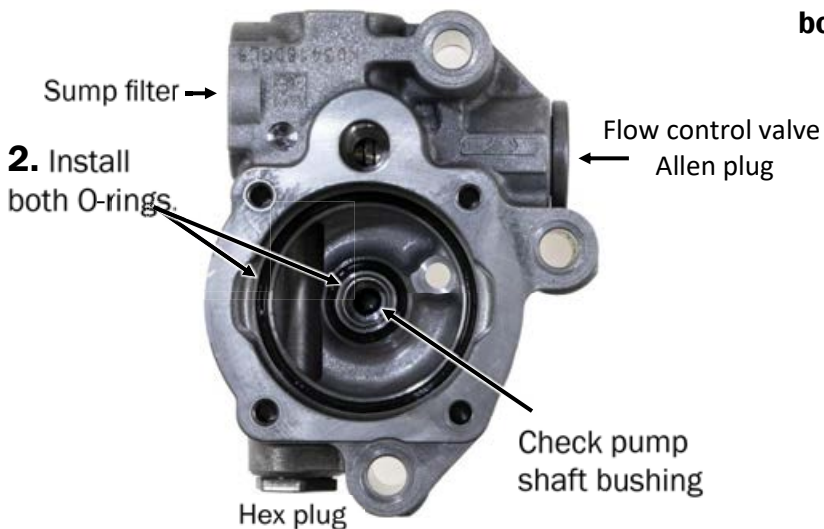
8. Install pump cover lining up the dowels and torque the bolts.



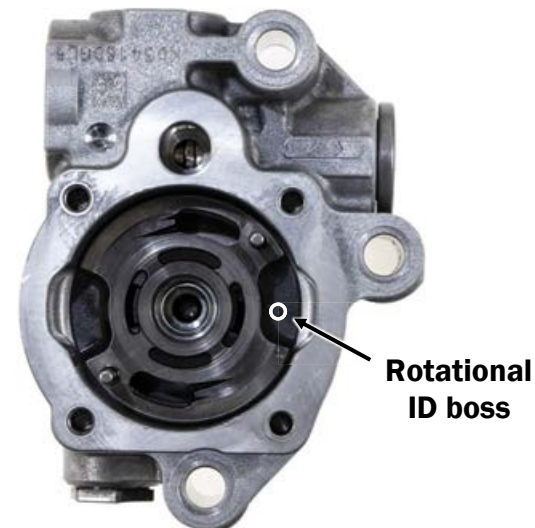
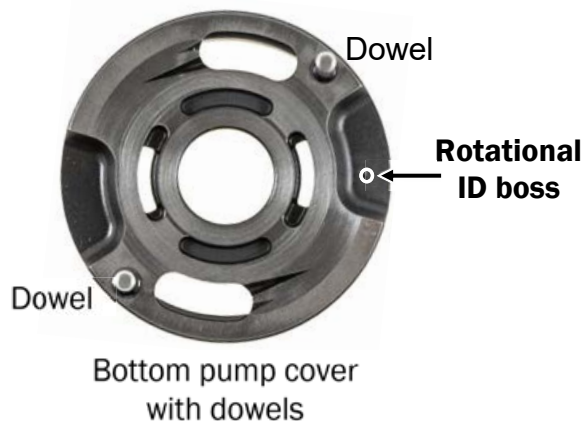
JF017E pump reassembly information

Installing the slide upside down creates noise and no move.
Installing pump parts without proper rotational orientation can create noise.

1. Rotate pump as shown.

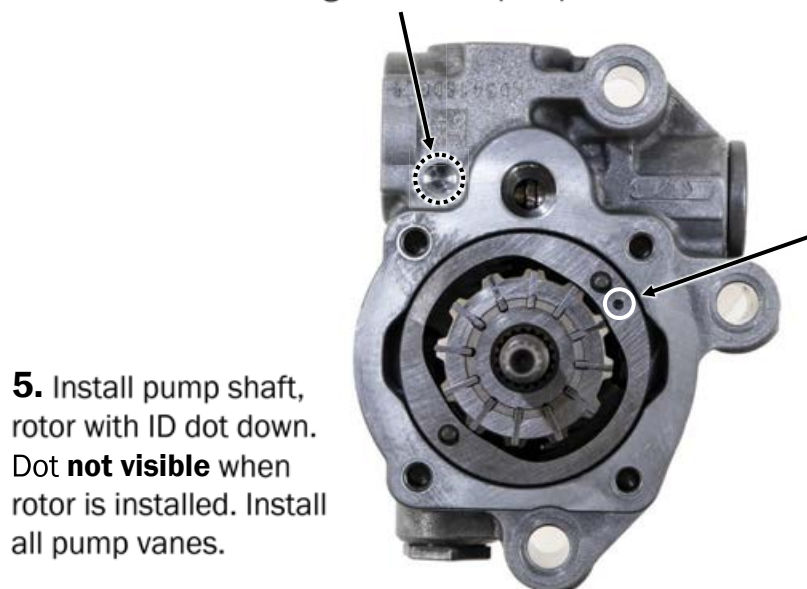


3. Install bottom pump cover with dowels into housing. **Must rotate ID boss to 3:00 O'clock position.**



Submerge entire pump in CVT fluid and spin shaft to verify pump operation when done!

Machined hole here is JF017E.
It is a higher volume pump.



4. Install pump slide with flat side up. Must have **slide rotational ID dot where shown.**

6. Install pump cover lining up the dowels and torque the bolts.

