



CB SERIES SEAL INSTALLATION

A STEP-BY-STEP GUIDE

Installation Steps

1.



Lightly lubricate both the **ASSEMBLY TOOL** and **SLEEVE** with heavy oil or assembly lube

2.



Grease groove and install o-ring in gland. lube o-ring and install stationary seal into gland with lapped **FACE UP**. Do the same with second stationary seal in the backplate seal bore

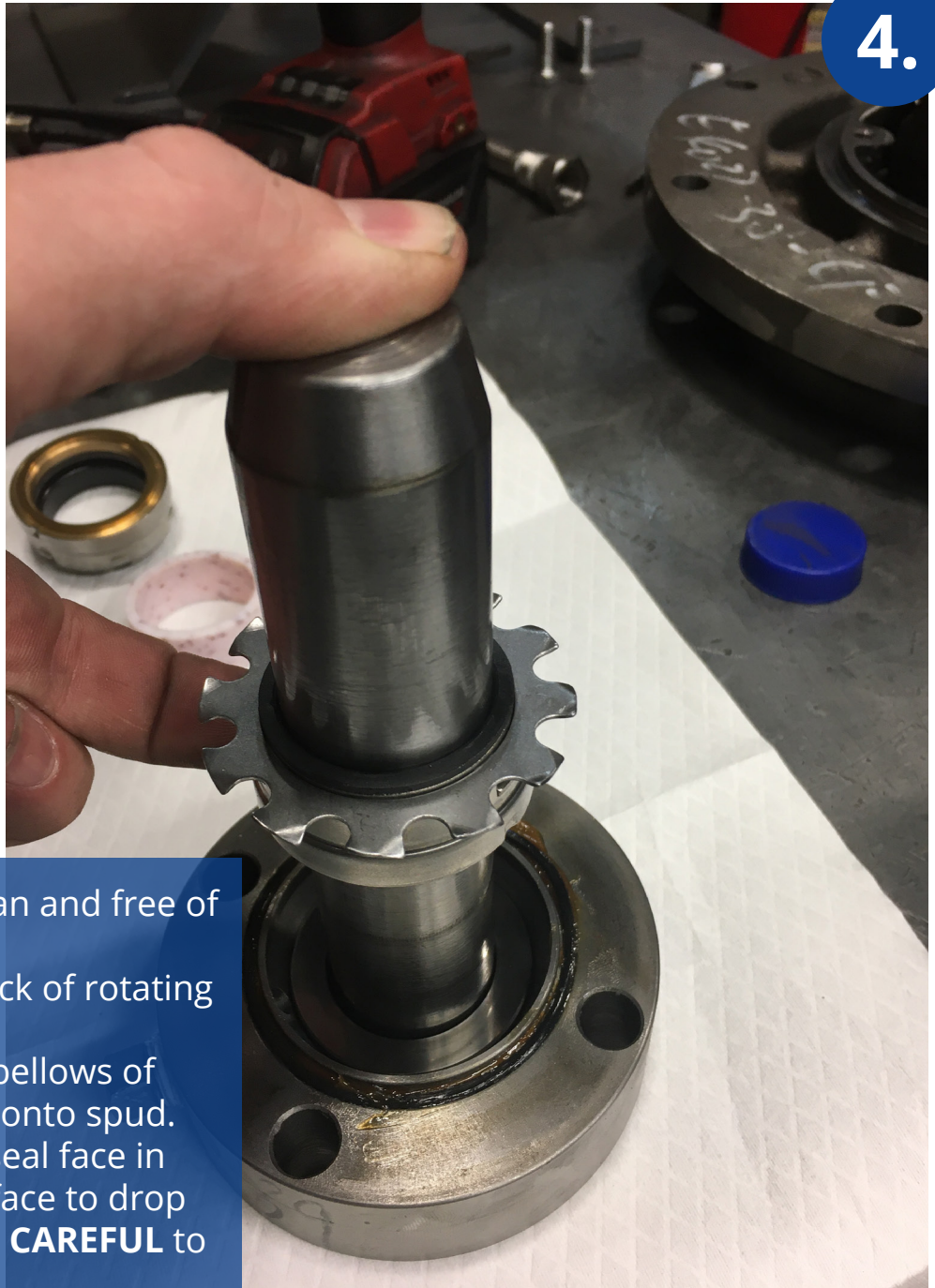
Installation Steps

3.

Set open end of lubricated spud into bore of gland.



4.



1. Verify both faces are clean and free of debris or oil residue.
2. Place seal pump over back of rotating element of seal.
3. Lubricate entire rubber bellows of seal. slide seal, face first onto spud.
4. Use finger nails to hold seal face in place and not allow the face to drop while sliding down spud, **CAREFUL** to not touch face.

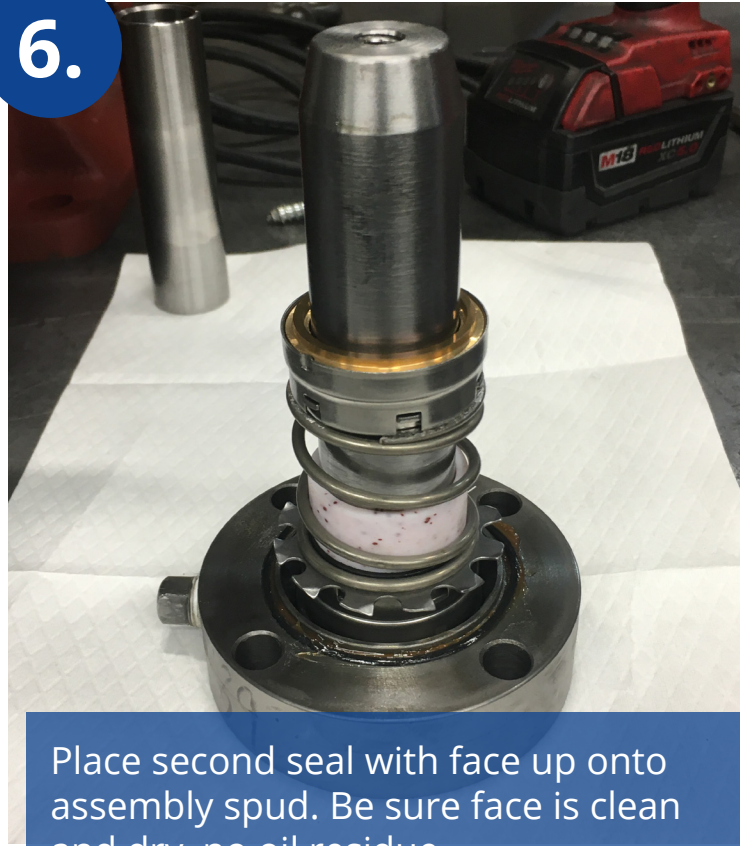
Installation Steps

5.



Place spring and seal spacer on spud.

6.



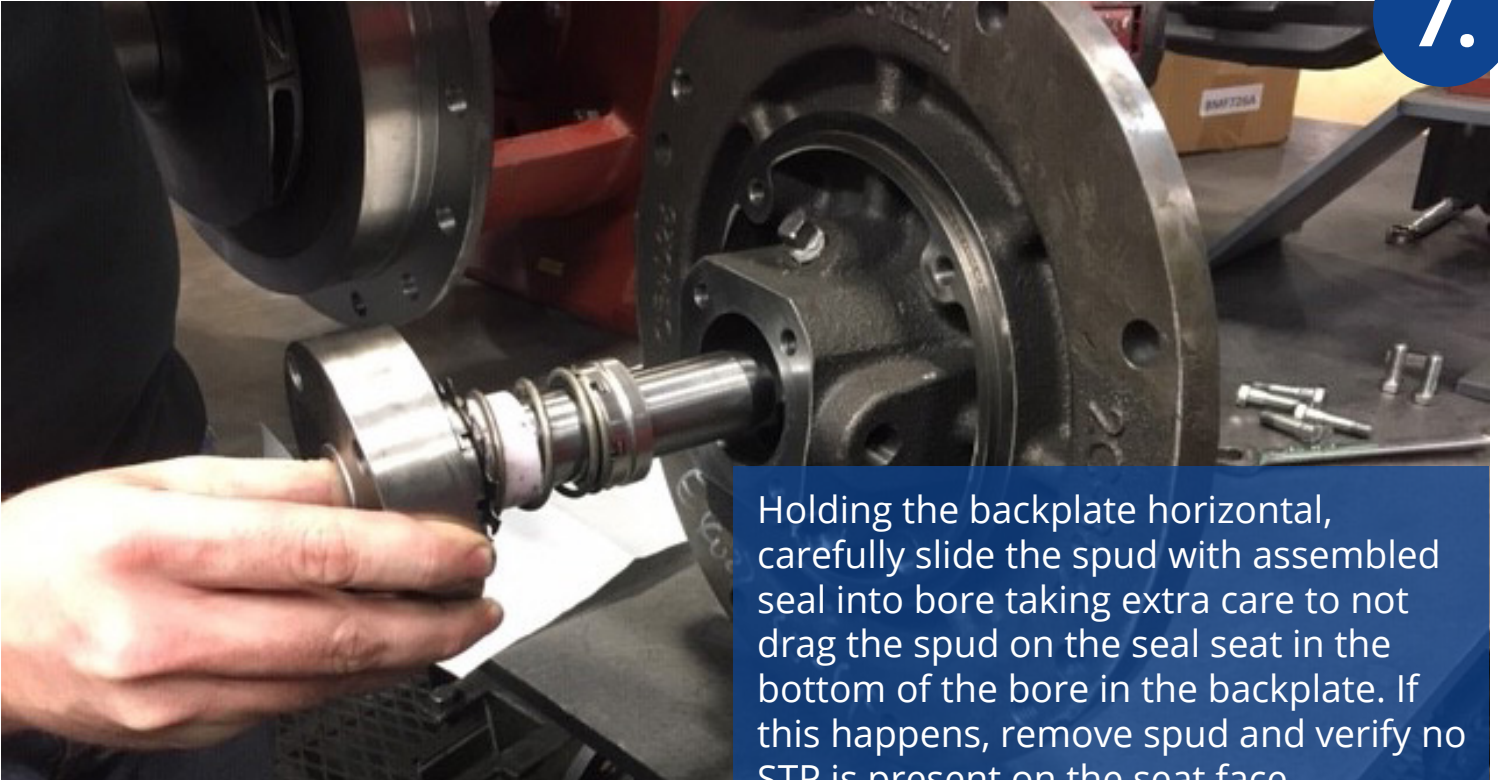
Place second seal with face up onto assembly spud. Be sure face is clean and dry, no oil residue.



BEWARE! If face falls out of element, be sure notches line up and face seats completely in element.

Installation Steps

7.



Holding the backplate horizontal, carefully slide the spud with assembled seal into bore taking extra care to not drag the spud on the seal seat in the bottom of the bore in the backplate. If this happens, remove spud and verify no STP is present on the seat face.

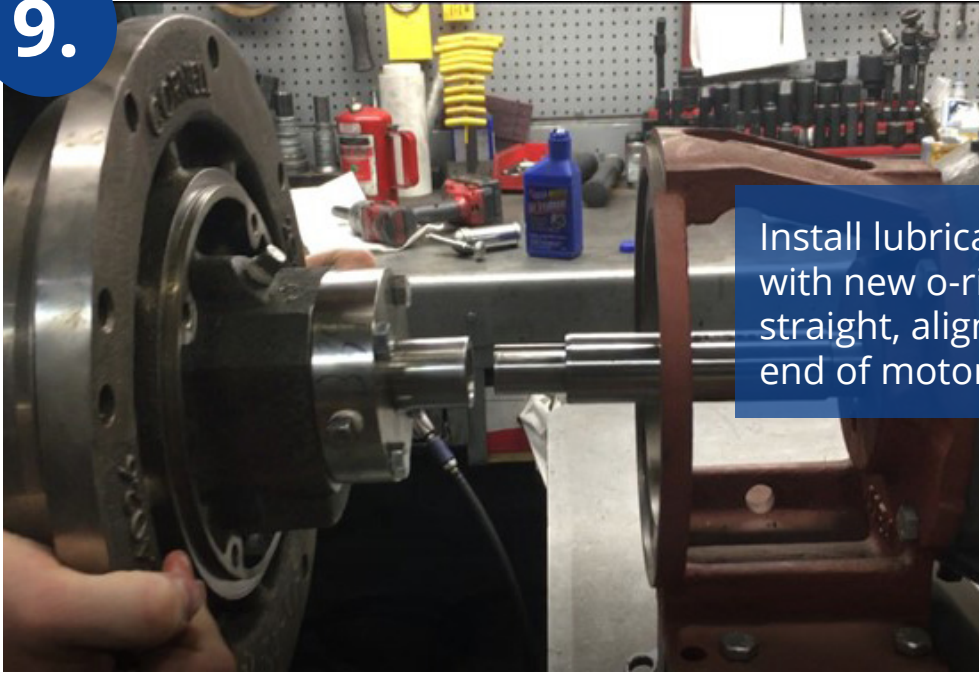
8.



While keeping pressure on gland to ensure seal faces do not fall out, lay the backplate flat on the table and slide gland down to backplate face. Make sure oil ports are in correct location and fasten capscrews.

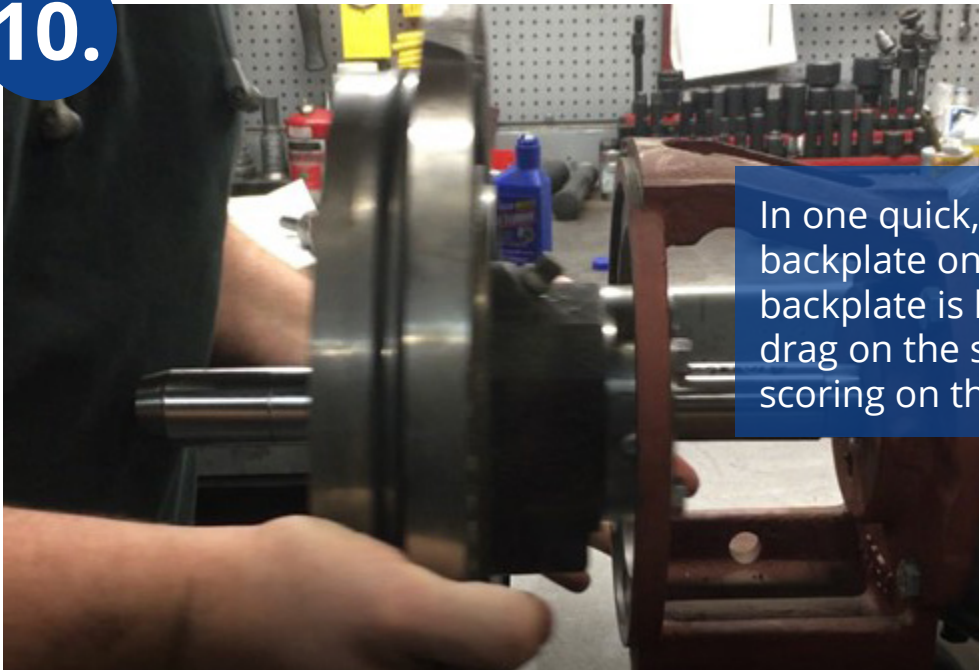
Installation Steps

9.



Install lubricated sleeve on motor shaft with new o-ring. Holding backplate straight, align bore in assembly tool with end of motor shaft.

10.



In one quick, smooth motion slide entire backplate onto pump. Be sure the backplate is held straight and doesn't drag on the sleeve. Any scratches or scoring on the sleeve will cause leaks.

Installation Steps

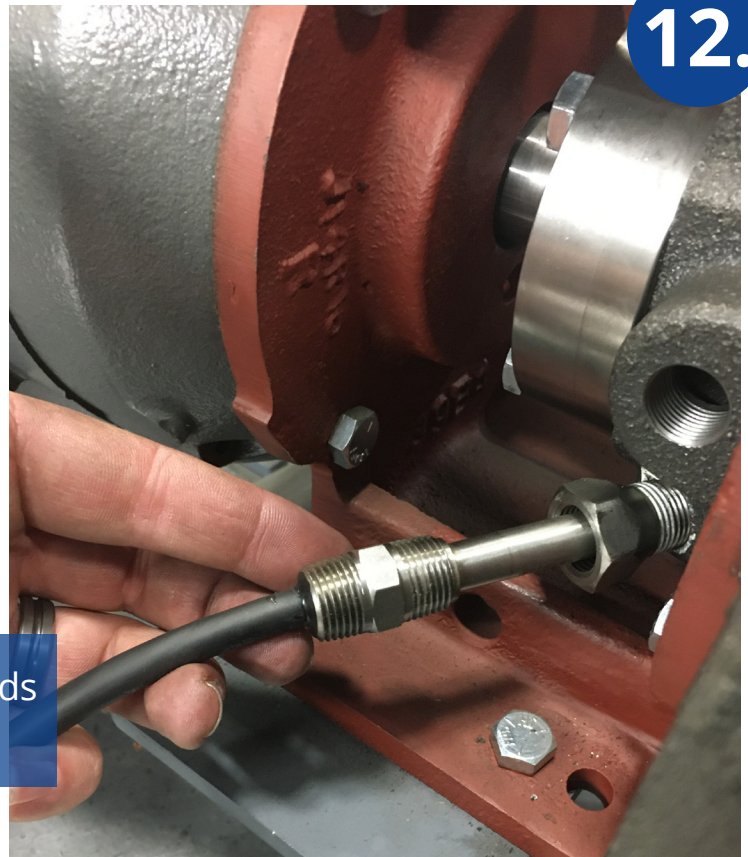
11.

Install heater well using **PIPE THREAD SEALANT AND TEFLON TAPE** on threads. Do not over tighten heater well or the tapered thread will cause bore to constrict and heater probe will not insert into well.



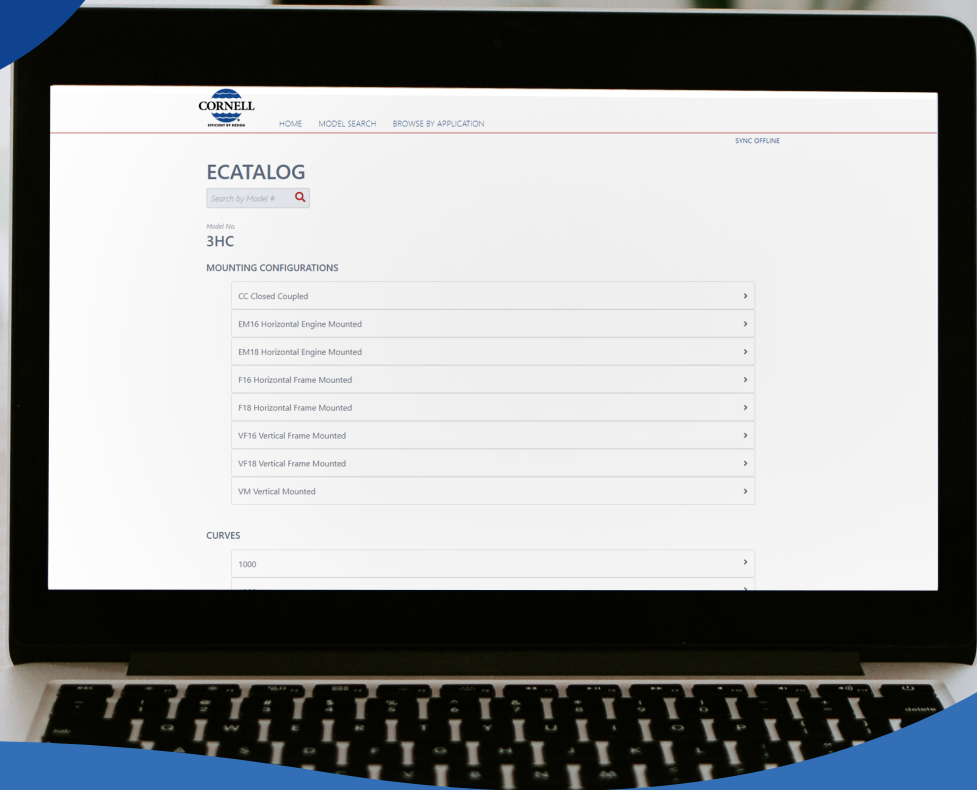
12.

Install heater, apply **ANTI-SEIZE** to threads and probe as well to prevent sticking.



Installation Complete!

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