



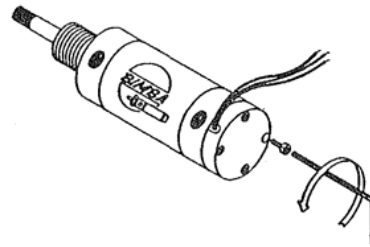
Technical Bulletins

PFC/PFCN Probe Replacement and Calibration Instructions

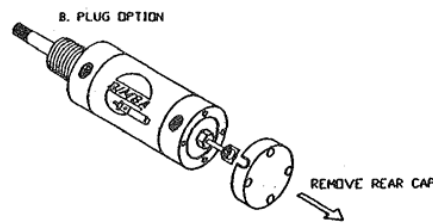
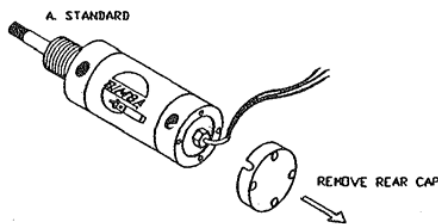
PFC Probe Replacement Instructions

1. Using the correct allen wrench identified in the table below, remove the four socket head cap screws on the rear of the cylinder.

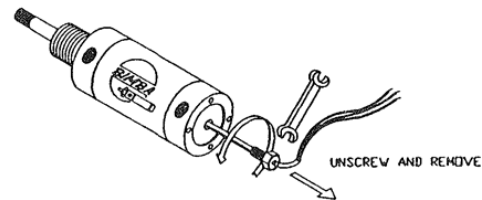
Bore	Wrench
09	3/32
17	3/32
31	5/32
50	3/16
70	1/4



2. Remove the rear cap. If a plug connector is installed in the rear cap, slide it out.



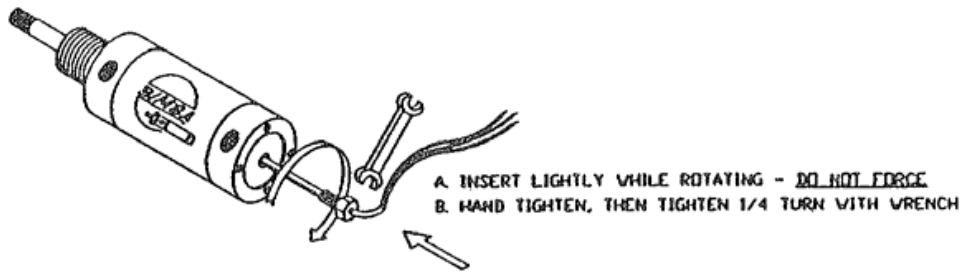
3. Using a 3/8 inch wrench, carefully unscrew the exposed delrin nut (the back end of the probe). When all the threads are free, pull the probe out of the cylinder.



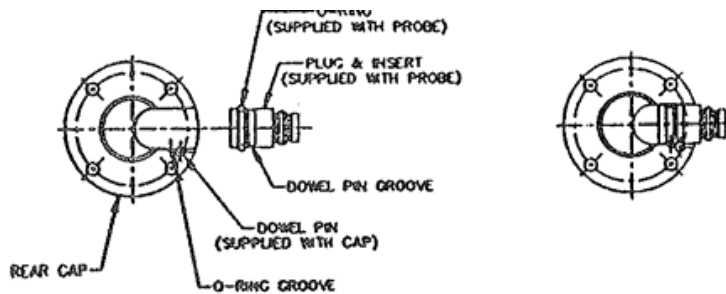


Examine the condition of the probe. If debris from the application's environment or from dirty air lines covers the probe, the wiper and rod inside the cylinder are most likely contaminated as well, and replacing the entire cylinder is recommended. If only a new probe is installed, its life will be shortened.

4. Gently insert the replacement probe into the cylinder, rotating it until it slides through the hole in the piston. **DO NOT FORCE THE PROBE INTO THE CYLINDER.** It should slide in freely with minimal friction. Hand tighten until O-ring is seated, then rotate **ONLY** ¼ turn until with the ¼ inch wrench. **APPLYING TOO MUCH TORQUE WILL DAMAGE THE PROBE.**

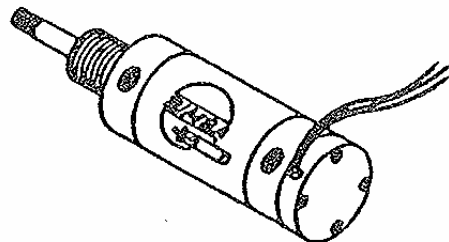


5. If there is a plug connector, slide it into the area in the rear cap.



6. Replace the rear cap and four cap screws using the torque in the table below.

Bore	Torque (in-lbs.)
09	7
17	10
31	35
50	90
70	150



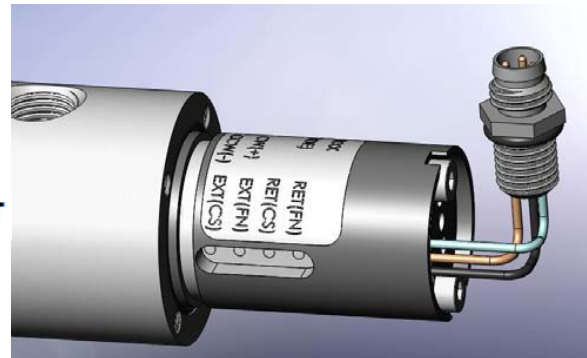
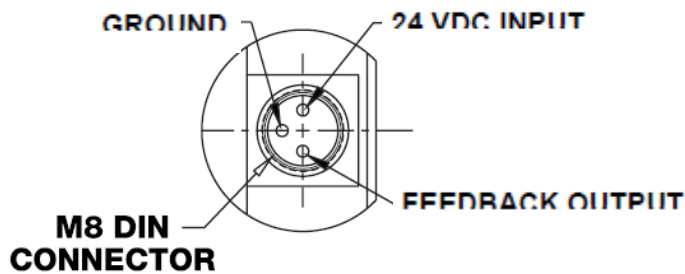
APPENDIX C

PFCN Probe Adjustment & Replacement Instructions

Probe Adjustment

Probe output calibration is normally not required. Every PFCN is calibrated at the factory for 0 to 10 V DC output fully retracted to fully extended. If readjustment is necessary in your application, follow the instructions below:

1. Install the PFCN in your application. Remove the rear end cap exposing the probe and four adjustment screws.
2. Apply 24 VDC power to the probe and monitor the feedback voltage. Connector pin identification is shown in the illustration below.
3. Position the actuator to full retract at 80 psi. Adjust the output as close to zero as possible using the coarse adjustment "RET(CS)," and then the fine adjustment "RET(FN)."
4. Position the actuator to full extend at 80 psi. Adjust the output to 10 V DC using the coarse adjustment "EXT(CS)," and then the fine adjustment "EXT(FN)."



Probe Replacement

The PFCN probe is not a wear part and normally will not need replacement. If replacement is necessary, follow the instructions below:

1. Using an allen wrench, remove the four socket head cap screws on the rear of the cylinder.
2. Remove the rear cap. Carefully detach the plastic connector that secures the M8 DIN connector to the probe terminals.
3. Remove the two long screws that secure the probe in the cylinder. Then pull the probe out of the cylinder.
4. Gently insert the replacement probe into the cylinder, rotating it until its through holes align with the screw holes in the cylinder. Tighten the screws, then reattach the end cap.