Oil Fill Procedure and Capillary Tube Assembly Installation

The pressure sensor used in your instrument is exposed to ambient pressure through a pressure port and an oil-filled capillary. The oil provides the required pressure coupling and is an electrical insulator that prevents corrosion due to the dissimilar material compositions of the transducer and instrument housing.

Included with your instrument is a capillary tube installation kit. The following procedure will provide guidance to allow you to install the capillary onto the instrument.

Should you require further assistance please do not hesitate to contact Teledyne RD Instruments and ask to speak to a customer service representative.

The following parts should be included in your kit:

Part Number	Quantity	Description
1400-65361	1	Nalgene Bottle
5400-7510A653	1	Syringe
5400-TS19X1	1	Needle
NY-200-1-2ST	1	Capillary Body Assembly
A150-045	1	Capillary Tube
1605-378372	1 ounce	Oil, Dow Corning 200 CTS
97F-6003-00	1	Needle Cover
AN2005001	1	Oil Fill Procedure

Should you require additional parts from this kit please contact a Teledyne RD Instruments sales representative. Please have the part number on hand to acquire price and delivery information.

Teledyne RD Instruments
14020 Stowe Drive
Poway, CA 92064 USA
Tel: (858) 842-2600
Fax: (858) 842-2822
http://www.teledynemarine.com/rdi/

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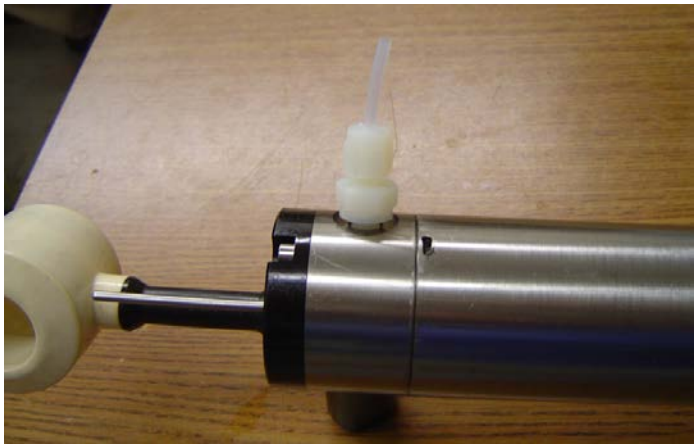
Step #1:

Place the instrument on a flat surface with the pressure port cavity pointed up.

Step #2:

Assemble the syringe and insert a small amount of oil from the Nalgene bottle into the syringe. Fill the pressure port cavity to the top with the oil.



Step #3:

Thread the capillary assembly into the pressure port slowly. You should see the oil wick up into the capillary tube as you thread the assembly into the end cap.

Have an absorbent paper towel on hand to clean up any overflow that you may have.

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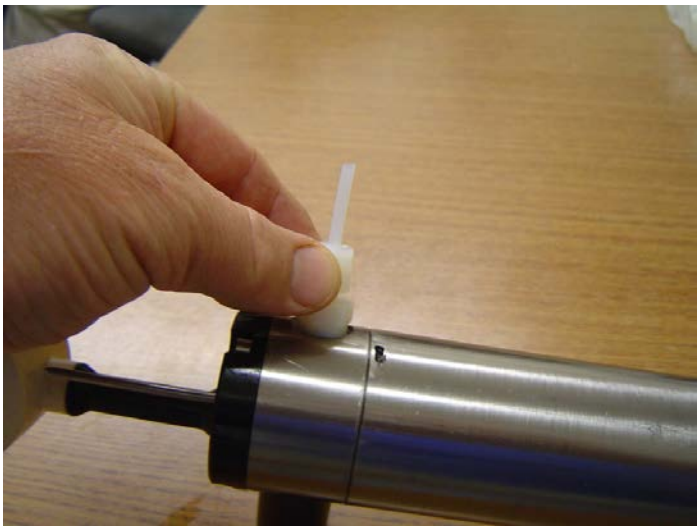
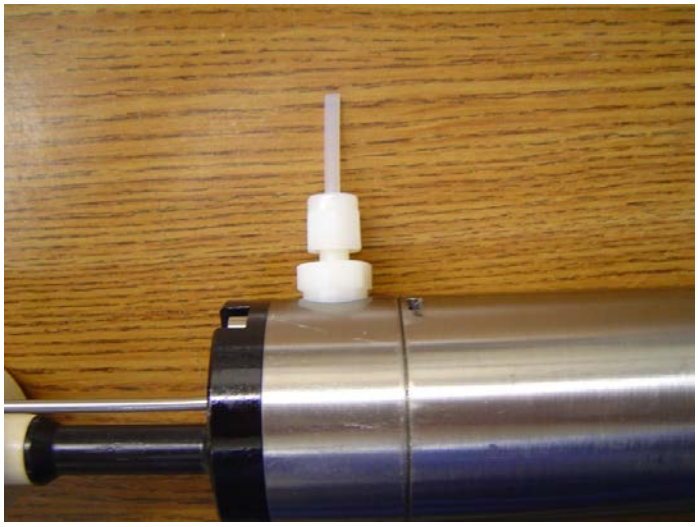


Step #4:

Continue threading the assembly until the threads are no longer exposed and the O-ring is seated onto the end cap.

Have an absorbent paper towel on hand to clean up any overflow that you may have.



Step #5:

Using hands only, tighten the assembly onto the end cap to four inch-pounds.

*** HAND TIGHTEN ONLY! ***
*** MAXIMUM 4 INCH-POUNDS TORQUE ***
*** DO NOT OVERTIGHTEN ***

Have an absorbent paper towel on hand to clean up any overflow that you may have.

If no oil is observed in the capillary tube repeat steps 1-5.

The installation is complete and the instrument is ready to be deployed.

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