

Service Bulletin

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SERVICE SYMPTOM

AT555's and Reichert 7 series instruments which will not take a measurement, or provide measurements followed by an asterisk may have dirty positioning windows, dirty Applanation Windows and/or a dirty Airtube.

DESCRIPTION

These instruments contain optical surfaces (referred to as Positioning Windows and Applanation Windows) and an Airtube which occasionally must be cleaned due to saline splash, dust, and/or other contaminants. When these surfaces have contamination, degradation of the measurement system signal occurs and the instrument may not take a measurement, or it may display asterisks (*) after the readings.

CLEANING PROCEDURE

CAUTION: DO NOT USE ALCOHOL, ACETONE, OR ANY OTHER SOLVENTS ON THE POSITIONING WINDOWS AND/OR APPLANATION WINDOWS OR IRREVERSIBLE DAMAGE TO THESE SURFACES WILL OCCUR CAUSING MALFUNCTION OF THE INSTRUMENT.



1. Clean the Positioning Windows and Applanation Windows by using a clean, soft, cotton-tipped swab which, is lightly moistened with lens cleaner that is safe for plastic lenses. Refer to Figure 1 for the location of the Positioning Windows and Applanation Windows.
2. After the windows are cleaned, dry the surfaces using a clean, soft, cotton-tipped swab.
3. Apply clean, dry compressed air at less than 90 psig (620 kPa) or "canned air" (e.g., Dustoff®)[†] to remove the remaining dust, lint, or contaminants.

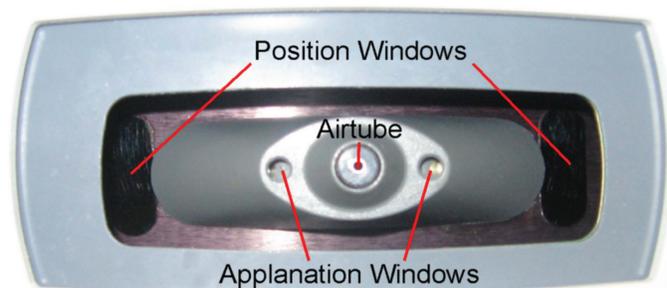


Figure 1. Cleaning Optics

WARNING: AFTER CLEANING THE INSIDE OF THE AIRTUBE, PRESS THE BUTTON BELOW THE DEMO ICON LOCATED ON THE OPERATOR'S SCREEN SO THAT ANY CONTAMINANTS ARE SAFELY REMOVED FROM INSIDE THE AIRTUBE.



4. If the instrument still displays asterisks after cleaning the Applanation Windows and the Positioning Windows, use a Pipe Cleaner and slide it in and out of the Airtube a few times to remove any contaminants inside the Airtube. Refer to Figure 2 for a picture of pipe cleaners.
5. After cleaning the inside of the Airtube, reset power to the unit and then press the button below the DEMO icon (located on the operator's screen) several times to ensure that any contaminants dislodged within the Airtube by the cleaning process are expelled from the Airtube before performing a measurement.



Figure 2, Pipe Cleaners

[†] - Dustoff is a product manufactured by Falcon Safety Products, Branchburg, NJ