

DOCUMENT TITLE: **RTZ TEST STATION MAINTENANCE PROCEDURE**

DOCUMENT TYPE: ☐ Calibration ☒ Preventive Maintenance

EQUIPMENT NAME: **ACQUITY CPSM RTZ ASSEMBLY TESTER**

EQUIPMENT NUMBER: **TE82995**

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DATE: **November 30, 2012**

REVISED BY: **RICHARD DAVIS**

DATE: **Dec. 14 2016**

EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	289005264	ASSY, SAMPLE TRAY, 2 DRAWER, MAGNETIC

REFERENCE DOCUMENTATION

Document Number	Description
730001799	Operating Procedure, Calibration and PM
730000295MP	Quality System Document Control

DEFINITIONS AND ABBREVIATIONS

Term	Definition/Abbreviation
Calibration	A process to ensure that equipment is capable of producing accurate results. This includes verifying measurements and/or making adjustment(s) to ensure measurement accuracy.
PM	Preventive Maintenance: The servicing, for the purpose of maintaining equipment in satisfactory working order, by performing systematic inspection, detection, and correction of potential failures. PM activities may include tests, measurements, and parts replacement.

PROCEDURE

1. Interface Cables

Each UUT must be connected to the test bed via cables. The Interface cables on the test bed must be in good working order to insure proper operation.

- Inspect for dirt or contaminants that may interfere with the mating plugs. Clean as required.
- Inspect connector body for cracks and/or broken parts. Repair or replace as required.
- Inspect for bent or broken pins. Repair or replace as required.
- Inspect the label on the cables. They should be clear and legible. Replace as required.

<u>FUNCTION</u>	<u>LABEL</u>
R Motor Drive	J31
Z Motor Drive	J32
Zp Motor Drive	J33
Theta Motor Drive	J39
Theta Encoder	J15

Note: Submit OESR for replacement cables

2. Sensor Interface Board

The Sensor Interface board (210000393) is used to interface UUT position sensors to the test bed. The connectors on the Sensor Interface board must be in good working order to insure proper operation.

- Inspect for dirt or contaminants that may interfere with the mating plugs. Clean as required.
- Inspect connector body for cracks and/or broken parts. Replace as required.
- Inspect for bent or broken pins. Replace Sensor Interface Board as required.

Connectors and Function on Sensor Interface Board:

R Home Sensor	J2
Load Cell	J3
Z Home Sensor	J4
Zp Home Sensor	J4
Top Of Plate Sensor	J4

3. Rotary Sample Tray Assembly

The Rotary Sample Tray Assembly (289005264) is used for every UUT to calibrate the Theta Axis and for the R/Theta Positioner Test. It is critical the assembly be in good working order and is not worn at the point where the Theta Drive assembly applies force to the Rotary Sample Tray Assembly.

Replace the Sample Tray Assembly.

WATERS CORPORATION ACQUITY CPSM RTZ ASSEMBLY TESTER PREVENTIVE MAINTENANCE RECORD

Date:	Performed By:	Procedure: 735002816
Equipment I.D.	Location:	
Due Date:	Interval (Months): 12	Next Due Date:

MAINTENANCE	RESULT	NOTES
Step 1: Inspect Interface Cables	PASS ☐ FAIL ☐	
Step 2: Inspect Sensor Interface Board	PASS ☐ FAIL ☐	
Step 3: Replace Rotary Sample Tray	REPLACED ☐	

NOTES
Place Expired Label Here