

# SFP-560A3C

# SFP-560A3C-FA

Maintenance Manual



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## 4 Pressure Measurement and Auto-Calibration for Pressure Unit

The Turntable revolves and rotates while keeping parallelism against polishing holder. For proper turntable operation, maintaining good parallelism and pressure force are important. For the parallelism, check heights between the Clamp rod and the Turntable, which is explained on the Section 2-3. For the pressure force check and calibration, we use the Pressure calibration jig (P/N : FP-PG56) as shown below. The Pressure calibration jig is equipped with a load cell. During measurements, the jig records the polishing machine's pressure force intended to apply and actual pressure values measured by the load cell and then compare.



### 4-1 Purpose of the Pressure calibration jig

- 1 To measure pressure force from the turntable with load cell to verify the turntable's polishing pressure is accurate.
- 2 To calibrate the turntable pressure force to correct pressure force.

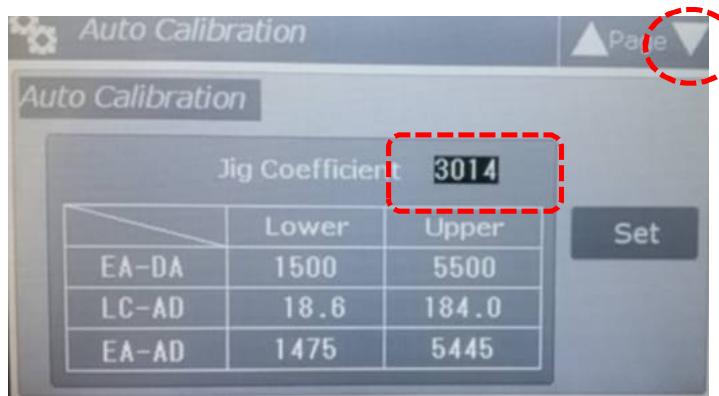
## 4-2 How to set up the Pressure calibration jig

1 When the power is on, place the Pressure calibration jig onto the polishing machine and clamp all 4 clamping posts.

2 Connect the connector to the inlet located back side of SFP-560A3C / FA as shown below.



3 As soon as the connector is connected to the inlet, Auto Calibration menu is automatically booted up on the touch panel.

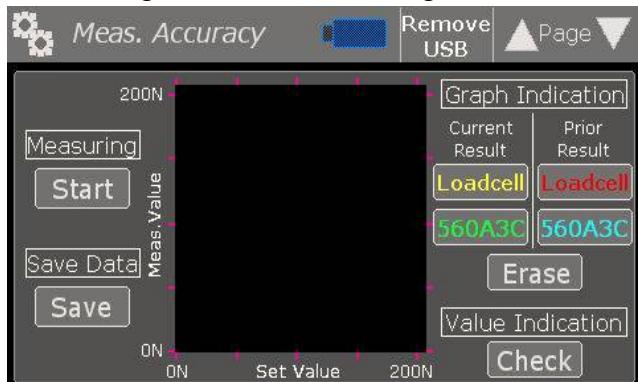


4 Then, please enter the Jig Coefficient value indicated on the top box of the Pressure calibration jig. Jig coefficient is peculiar for each Pressure calibration jig.

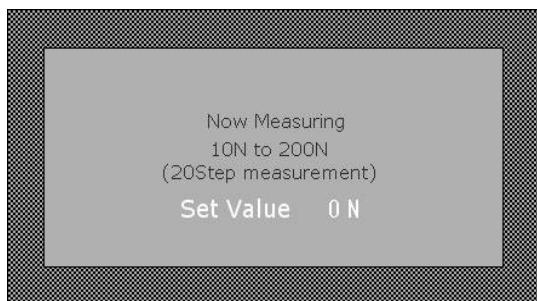
Now setup of the Pressure calibration jig is done.

### 4-3 How to measure

- 1 Press Page down arrow and go to the Measurement page.



- 2 Press Start to start measurements of the pressure range between 10N to 200N (20 measurements in total).

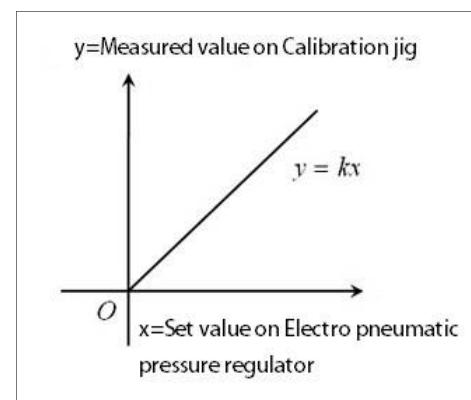


continue to the next page

3 After the measurements are done, you can compare results between the Pressure measurement jig (load cell) and SFP-560A3C / FA and also between present measurement results and previous measurement results. You can see the results both on graph and table. Below is results shown by the graph.

Color coding:

Current Pressure measurement jig (load cell) result:	Yellow
Current SFP-560A3C / FA pressure value results:	Green
Previous Pressure measurement jig (load cell) result:	Red
Previous SFP-560A3C / FA pressure value results:	Blue

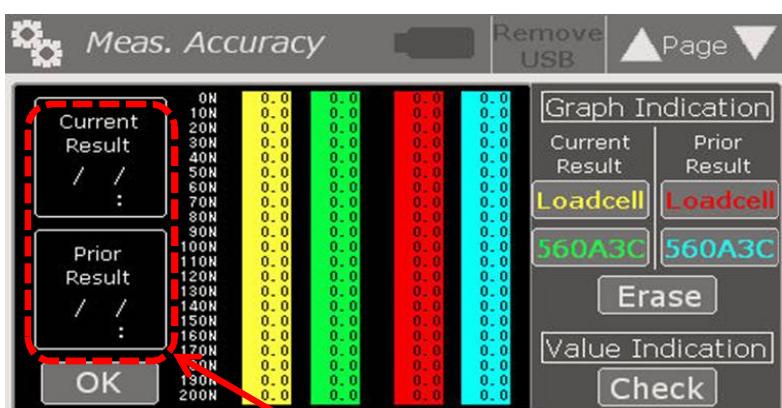


X-axis = SFP-560A3C / FA's input pressure values

Y-axis = Pressure measurement jig's measured values

When all 4 colors of the lines are on the same trace, then the polisher's pressure control is correct

By pressing Check, you can also confirm the each measurement results on the table.

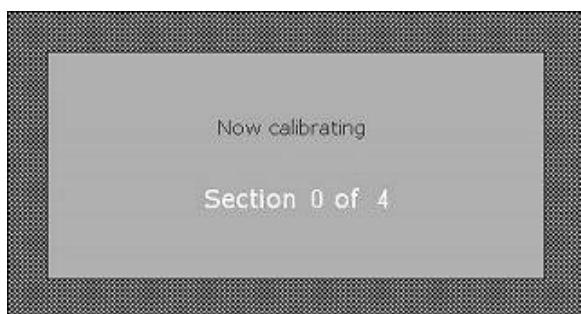
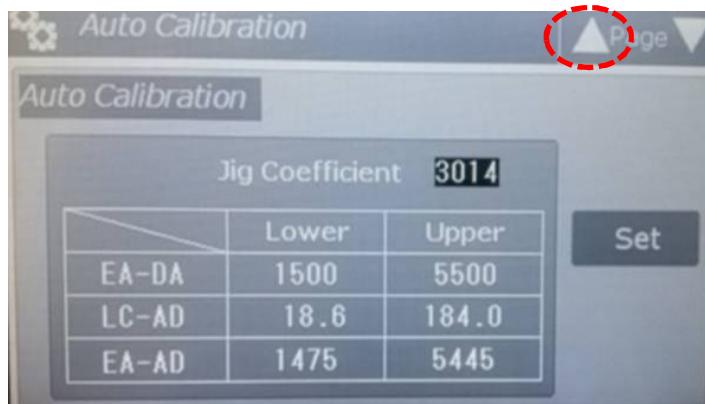


Indicate date of current and previous measurements

If the measured values between load cell and polisher are 1.5 N apart in the range of 100 N or less, please perform the calibration described in the next section.

#### 4-4 Calibration mode

Please go back to the previous page and press Set to start calibration.



The calibration is done in 1 minute.

After the calibration is done, you can go to the measurement mode and verify.

After finish using the jig, pull out the connector and the monitor goes back to normal operation mode.

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