

Sonic tension meter operating manual

Operation steps :

1. Press “POWER” to turn on.
2. Press “Select” and “Number” to check if the default parameters are correct. For example, Press “Select” and “ 2 ” for Mercury X axis. The Mass weight is **001.3/mm**, Width is **010.0mm/R** and Span is **0730mm**. If the default parameter is not correct, please correct it.
3. Press “Measure” to measure belt tension(the unit is Newton)



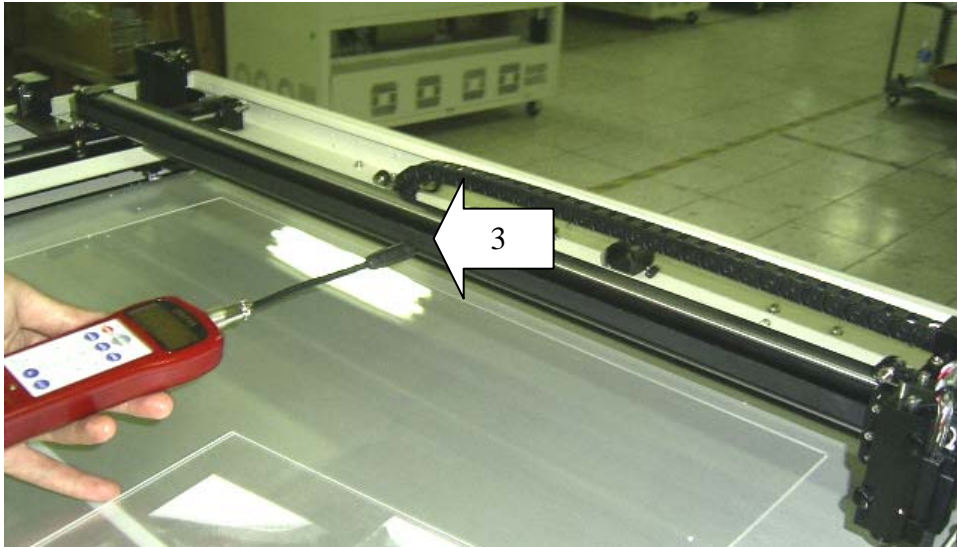
Sonic tension meter



Display _ Default parameter for Mercury X axis

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4. When measuring x axis or y axis belt tension, put the Sonic meter sensor on the half length of belt and flip the belt. The meter display will show the value of tension. For example, the proper belt tension value of Mercury X axis is 36 ± 1 (N).

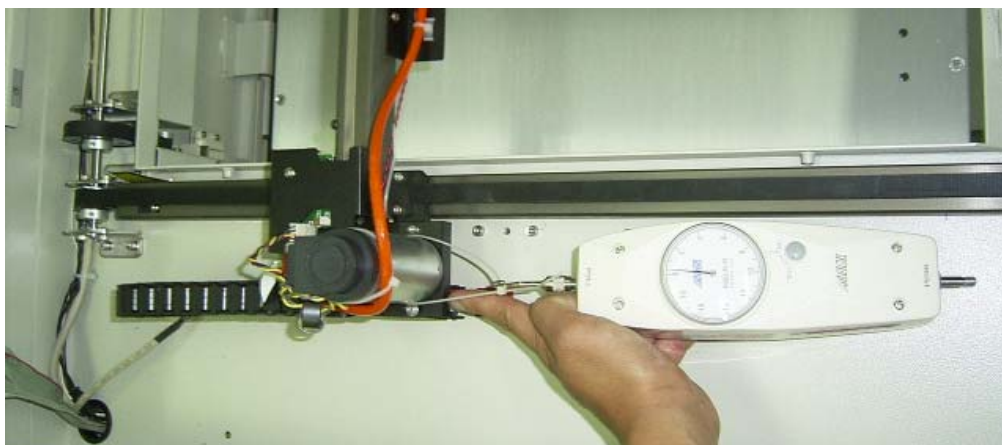


X axis measurement



Y axis measurement

5. When measuring x motor or y motor belt tension, use Pull-Push tension meter and use a cable tie to pull x motor. The tension meter and x motor and pulley should be on the same parallel direction. The proper tension for Mercury X motor is 1.7(kg).



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6. When measuring Spirit/Spirit GE x motor belt tension, there is not proper tension meter for measuring it. The proper tension can be adjusted by fasten screw. The proper screw distance for Spirit/Spirit GE x motor is **5mm±1**

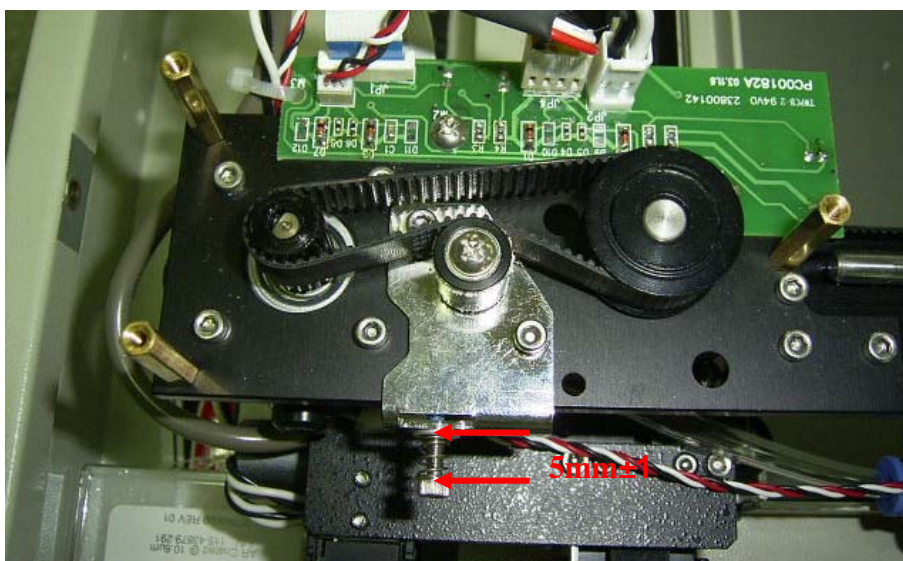


Table 1~Sonic tension meter parameters

Model	SELECT	WEIGHT	WIDTH	SPAN	Tension Value(N)	Motor belt value(kg)	X/Y Axis
MercuryII	NO. 1	001.3g/mm	012.0mm/#R	0520mm	40	4	Y Axis
MercuryII	NO. 2	001.3g/mm	010.0mm/#R	0765mm	40	1.7	X Axis
VenusII	NO. 3	001.3g/mm	012.0mm/#R	0280mm	36	4	Y Axis
VenusII	NO. 4	001.3g/mm	010.0mm/#R	0380mm	36	1.7	X Axis
Spirit & GE	NO. 5	001.3g/mm	012.0mm/#R	0510mm	36	4	Y Axis
Spirit	NO. 6	001.3g/mm	012.0mm/#R	0810mm	45	4	X Axis
C180	NO. 7	001.3g/mm	010.0mm/#R	0380mm	30	4	Y Axis
C180	NO. 8	001.3g/mm	010.0mm/#R	0510mm	30	4	X Axis
Spirit GX	NO. 9	001.3g/mm	012.0mm/#R	0670mm	45	4	Y Axis
Spirit GX	NO. 0	001.3g/mm	010.0mm/#R	1020mm	40	4	X Axis
Spirit GE	tune it yourself	001.3g/mm	012.0mm/#R	1070mm	70	4	X Axis

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X380	tune it yourself	001.3g/mm	012.0mm/#R	685mm	60	4	Y Axis
X380	tune it yourself	001.3g/mm	010.0mm/#R	1080mm	50	4	X Axis
GAIAlI	tune it yourself	001.3g/mm	020.0mm/#R	1100mm	120	4	Y Axis
GAIAlI	tune it yourself	001.3g/mm	020.0mm/#R	1500mm	120	4	X Axis