

GoTop Watch Function Test Standard

Test Items

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Traction & Torsion Test

- ▶ **Test Purpose :**
- ▶ Test the traction & torsion function for case with strap

- ▶ **Test Specification:**

Strap Types	Frequency (cycles)	Weights requirement for traction & torsion test	Observation time point
Metal bracelet	5000	5KG	Every 1000 cycles
Leather strap	3000	3KG	Every 1000 cycles
Mesh band/ Plastic strap	3000	3KG	Every 1000 cycles

- ▶ **Acceptable Standard :**
- ▶ No damages
- ▶ No loose
- ▶ No detachment



Pull/Push Force Test

- ▶ **Test Purpose :**
- ▶ Test the tensile resistance of the case with strap

- ▶ **Acceptable Standard :**
- ▶ No damages
- ▶ No loose
- ▶ No detachment
- ▶ If any of above occur, then test fail.



Swing Test

▶ Test Purpose :

- ▶ Test the reliability of the product structure, for example: test the stability of hairpin, solid pin, hands etc.

▶ Acceptable Standard :

- ▶ No breaks
- ▶ No detachment
- ▶ No detachment
- ▶ No looses
- ▶ No functional issues.(Should also check if the removable force of adjustable links pin and buckle function is within the standard or not.)



Artificial Sweat Test

- ▶ **Test Purpose :**
- ▶ Test the ability of corrosion resistance of metal surface and electroplating layer

- ▶ **Acceptable Standard :**



1	Change in color	Pass (not present or if it can be removed by a soft cloth)
		Fail (if it cannot be removed by a soft cloth)
2	Tarnishing droplets or corrosion	Pass (present or if it can be removed by a soft cloth)
		Fail (if it cannot be removed by a soft cloth)
3	Bubbles / plating peeling off	Fail

After the visual inspection, the adhesive tape test (7) must be conducted. If the plating does not peel off, or no coating remains attached to the tape, the sample passes the test.

Abrasion Test

- ▶ **Test Purpose :**
- ▶ Check the surface adhesion of the sample

- ▶ **Acceptable Standard :**
- ▶ No plating peeling-off (i.e. corner or edge).
Accept
- ▶ Very minor deterioration in corner or edge.
Accept
- ▶ Minor deterioration in multiple areas. Accept
- ▶ Extensive deterioration. Reject
- ▶ Severe deterioration in multiple locations.
Reject



UV Test

▶ Test Purpose :

- ▶ Check the sample if can meet the requirement under UV irradiation with accelerated aging

▶ Acceptable Standard :

- ▶ The specified number of decolorization must be assessed with a stained grey card in accordance with ISO 105-A02/ISO 105-A03.



Grey scale	Results
5~3	accept
2.5	Conditional accept
2 or less	Reject

- ▶ Inspect the testing sample's color under white lights, Write down the sample's grey scale level on each test report.

Temperature & Humidity Test

Test Purpose :

- ▶ Test the suitability of the product for storage/transportation under high temperature and humidity conditions

Acceptable Standard :

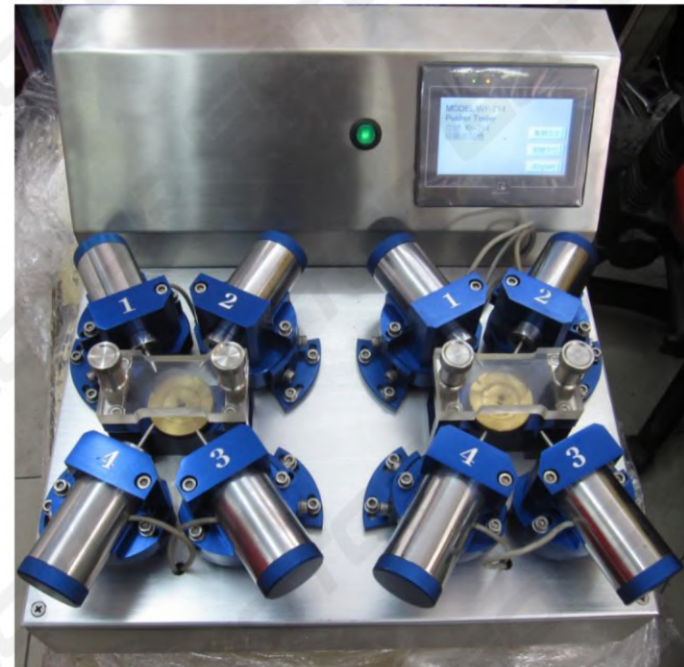
- ▶ No breakdowns
- ▶ No damages
- ▶ No loose
- ▶ No cracks
- ▶ No reset
- ▶ If the samples don't have any changes in visual appearance, and all functions of the movement operate according to the specifications of the movement manufacturer. And after 24h clockwise and 24h anti-clockwise running test, watch still function well, then test pass.
- ▶ If any of the above situation occurred, then test fail.



Pushers Test

- ▶ **Test Purpose :**
 - ▶ Check the reliability of pushers

- ▶ **Acceptable Standard :**
 - ▶ No breakdown or detachment on pushers.
 - ▶ No cracks or breaks on movement & holder.
 - ▶ Waterproof function well.
 - ▶ No abnormal on movement function.
After finishing the test, clockwise and anti-clockwise running is still accurate within 24 hours, then test pass.



Leather Strap Bending Test

▶ Test Purpose:

- ▶ Check the durability of leather strap bending

▶ Acceptable Standard :

- ▶ No wrinkles
- ▶ No cracks
- ▶ No damages
- ▶ No detachment
- ▶ No breaks



Wet & Dry Friction Test

▶ Test Purpose :

- ▶ Check the discoloration degree and color fastness for the dial of sample

▶ Acceptable Standard :

- ▶ Compare the color change by using the ISO grey scale.(ISO 105-A02/ISO 105-A03)



2. Dry

Grey Scale	Result evaluation
5~4	Accept
3.5	Conditional Accept
3 or less	Reject

3. Wet

Grey Scale	Result evaluation
5~4	Accept
2.5	Conditional Accept
2 or less	Reject

Drop Test

▶ Test Purpose :

- ▶ Check the components of watch is workable or not during transportation & wearing

▶ Acceptable Standard :

- ▶ No breaks
- ▶ No damages
- ▶ No detachment
- ▶ No loose
- ▶ Waterproof function well
- ▶ No abnormal on movement function. After finishing the test, clockwise and anti-clockwise running is still accurate within 24 hours, then test pass.
- ▶ The test is passed if without above problems



Rotated Chain Assembly And Running Test

▶ Test Purpose :

- ▶ Check the correctness of movement running for mechanical watch

▶ Acceptable Standard :

- ▶ Check if the sample's timing is accurate or not.
- ▶ Check if there're any parts get loosen or not.
- ▶ Check how much time can the watch sample run by itself.
- ▶ If any of above defectives happened, then the test will be judged as failed.



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