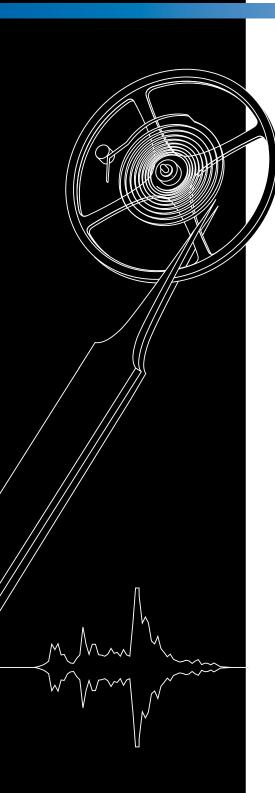
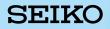


WATCH REPAIRING TOOLS 2016



SEIKO Hong Kong Ltd.



Quartz Tester QT-2400

QT-2400 is a digital rate measuring device which contains a microcomputer.

This quartz tester measures high-precision quartz watches such as annual-equation watches to an accuracy of 1/1000 sec. The task is easily handled by this device because the reference quartz oscillator has an accuracy of 10⁻⁸



 $\circ\,$ The rates of quartz watches are measured and displayed up to an accuracy of 1/1000 sec. The measuring range is ±9.999 sec/day

SEIKO QUARTZ TESTER QT 2400

- The rates of most SEIKO quartz watches can be measured.
- The front panel is large and easy to read thanks to a fluorescent display tube and buttons using LED.
- \circ This model is lighter than the previous tester (QT-2300).

[Specifications]

Measuring time (gate time)	Quaetz(analog and digital) 1,2,4,5,6,10,20,30,60,120 sec		
Display units	1/1000 sec/day		
Measuring range	±9.999 sec/day		
Measuring accuracy	1/1000 sec/day or less, standard quartz oscillator total accuracy ±1 × 10 ⁻⁸		
Power consumption	30W or less		
Operating temperature range	0˚C to 50˚C, 20 - 80%RH		
Main body dimensions	W:184mm H:140mm D:151mm		
Weight	Main body 1.3kg, Microphone 0.3kg		

Product released in February 2016

Water Pressure Tester

S-480S

SEIKO Water Resistance Tester

Aerial-Compression Underwater-Decompression system Up to three watches can be tested simultaneously.

• No water is admitted into the watch even if its sealing is defective.

A watch to be tested is pressurized in the air using the mini gas cartridge (98ml, carbon dioxide gas) for exclusive use and then depressurized in the water to avoid entry of water Into the watch.

Direct visual verification

The watch can be observed directly through a transparent acrylic water tank If it Is defective, you will see bubbles being sent up from it.

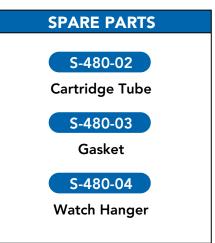
Easy to operate

Attach a watch to the internal operating lever, and fix it in the head space of the tank. Using the mini gas cartridge, pressurize the watch to a specified value in the bead space, and then plunge the watch into the water by pressing the Internal operating lever. Then, depressurize the tank to check whether the watch leaks or not.

SPECIFICATIONS

	5
Overall dimensions	: φ150mm 320mm In height (max 430mm when the internal operating lever is raised)
Inner volume.	: approx. 885ml
Shell	: Welded stainless steel pipe, w/spacer for reducing the gas consumption
Inner lining	: Transparent acrylic resin casting Inside diameter : φ70mm Thickness : 10mm Height : 215mm
Capacity	: Up to three watches can be tested simultaneously. (The spacer cannot be used when two watches or more are tested simultaneously)
Pressure resistance	: More than 15 kgf/cm²
Regulator	: Operating pressure range $0-9.0\pm^{1.0}_{0.5}$ kgf/cm ² (100m, 10 bar)
Pressure gauge.	: 15 kgf/cm² max.
*Mini gas cartridge (not included to S-480S)	: Carbon dioxide gas, 98 ml for 40-50 operations (when the spacer is used with a new cartridge).
Safety system	: Bursting disk, pressure regulator (primary, secondary), Joint (w/check valve), mini gas cartridge (w/safety sealing cap)
Cartridge tube	: 4mm, Nylon tube, w/quick joint
Total weight	: approx. 8.0 kg (not including mini gas cartridge and water)





IMPORTANT

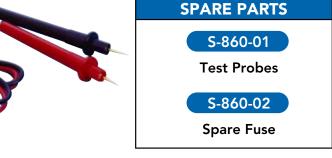
Mini gas cartridge is not included to S-480S SEIKO Water Resistance Tester as exportation of this item is prohibited. Mini gas cartridge will be available from NTG CO. LTD. (http://www.ntg.co.jp/). We suggest that you contact them by email or fax.

NIPPON TANSAN GAS CO., LTD. 12-15, 3-CHOME AOI ADACHI-KU, TOKYO 120-0012, JAPAN Attention: International Sales Department Sales & Marketing Division Fax : +81-3-3880-6829 Email: Tsutomu.Haraguchi@ntg.co.jp Naomi.Nakamura@ntg.co.jp

Digital Multi-Tester

S-860 SEIKO Digital Multi-Tester

This new multi tester (for watches only) is developed as the successor of current model S-850. This innovative tester can measure more easily and more accurately the battery voltage, resistant of the coild block or light segmentation, and the current consumption of the circuit block or movement module.



Features

• Power-supply function is built-in inside its body

It can supply the voltage of Silver oxide battery and lithium battery for watches, and made it needless to use the outer power supply when current consumption measurement. (It also can use the outer power-supply as usual)

• Current consumption measurement in accordance with the second-hand st Gate time can be sent according to second-hand steps. It made it possible to direct measurement for the watches which second-hand steps other than every second.

(Example: 20 seconds steps watches) It was impossible for other conventional testers.

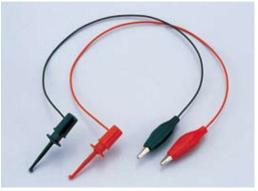
• Accurate low-current measurement

It can measure as small accuracy as 1/100 μA

Improvement in handling

In any measurement, it became unnecessary to change the wiring, which sometimes felt burdensome.

S-842 Alligator Clip Adapter for Multi-Tester



Battery Tester





Features

- You can measure the battery voltage without taking the battery out from the blister package.
- Pocket size & ideal for carrying
- Surface is protected by clear front cover

Charger

Energy Supplier

YT02A-A & YT02A-E

SEIKO Kinetic Energy Supplier

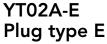


Note:This tool is for the service centers and the dealers who service and/or sell the SEIKO Kinetic watches but NOT FOR CONSUMERS.

YT02A-A Plug type A



(For USA)





(For Europe etc.)

The tool numbers YT02A-A and YT02A-E are determined by the plug type of the AC adapter. When you order the Kinetic Energy Supplier, be sure to check the plug type.

Features

- SEIKO YT02A is a battery charger to charge SEIKO KINETIC watches from an external power source.
- No need to remove the watchband when charging.
- The position of the crown for each model is shown by illustration for the best positioning of the watch for charging.
- Equipped with timer function to power the charger down automatically after a certain time of operation (for 30 minutes or 3 hours and a half).

SPECIFICATIONS

Drive system	: Alternating current magnetic field transmission
Dimensions	: D135 x W125 x H32mm
Weight	: 190 g
Operating temperatur	e: 0°C to 40°C
range	(for storage -5°C -±50°C)
Rating	: Direct current 9V
	(for SEIKO AC adaptor only)
Timer time	: Approximately 30 minutes or
	approximately 3 hours and a half can
	be selected by a sliding switch
AC Adapter 7530029	: Input : AC 100 - 240V 50/60 Hz
	Output : DC9V 0.5A

Watchmakers Eyeglasses

A-MS15710-02

Watchmakers Eyeglasses 2×



A-MS15710-03

Watchmakers Eyeglasses 3×



Screwdrivers

A-MS39000 Slotted Head(-) Screwdrivers Assortment (Set of 5 Pieces)



⊖2, 1.6, 1.4, 1, 0.7mm



Phillips Head(+) Screwdriver 0.98MM



⊕φ0.98

A-MS3360A

Slotted Head(-) Screwdriver 1.6MM



⊖1.6mm





⊕*φ*2.0

Tweezers

A-TP13AA

Tweezers (Stainless Steel)



A-SA001 Tweezers (Polypropylene)



A-E02201

Tweezers (Antimagnetic Steel)

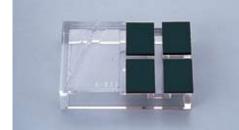


A-SA905 Tweezers (Bamboo)



Movement Holders

S-682 SEIKO Universal Movement Holder



This Universal Movement Holder is made of plastic so as not to damage a movement, and is used for repairing any type of movement.

S-683 SEIKO Movement Holder Round Type

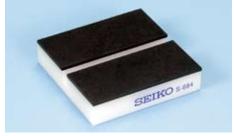


S-680

Exclusive Movement Holder Set for Cal. 4F and 8F Series







- 6 -

Movement Holders

7D48A-JP

Positioning Pin Set (Set of 2 Pins) for Cal. 7D Series





Positioning Pin A Positioning Pin B (The actual size of the above parts are about 2 \sim 3mm)

Pin Vice And Other Tools

A-MS12000

Pin Vices for Pins up to 2.0 MM Diameter



H-G001

Dummy Plate for Cal.5D88



How to use the plate is shown on the Parts list/ Technical Guide Cal.5D88



C-003

Battery Remover for Cal.4F and 8F Series



Cleaning Tools

A-MS26810 **Rubber Blower With Brush**



A-KTZ003 Anti-Static Work Mat



200×300mm



5-705					
SEIKO Hype	r Finger	Cots	(Set of	10 Piece	es)



H-Q002- * Size Code L or M (see the chart below for the sizes and code numbers) Single-Use Finger Cot (1bag=1000pcs.)

	Tool	Code
Size	L size	M size
	H-Q002-L	H-Q002-M
Length (mm)	65	65
Width (mm)	29	27
Thickness (mm)	0.13	0.13

H-Q001-W * & H-Q001-B *

ESD coat (with cap)



* Size Code (see the chart below for the sizes and code numbers)

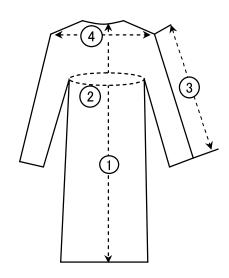
> Very small components of a watch movement are affected by dust/lint. Since a wristwatch is a precision instrument, fine dust/lint and rust are fatal.

Watchmakers preferably wear an ESD coat and cap before walking into the workshop for the purpose of keeping a dust/lint, particle-free and antistatic controlled working area.

Note: * Minimum order quantity=12 pcs.

Features

- Colour : White / Blue
- Stand collar, Zip front
- Cap : Free Size
- Prevent static electricity
- Material : Nylon
- About washing : Water only/No detergent



Measurements

Size	Center back length	Chest	Sleeve length	Shoulder width	Fit for users in height	Tool	code
	(cm)	(cm)	(cm)	(cm)	(cm)	White	Blue
	1	2	3	4	(em)	vvnite	Dide
S	87	108	53	43	156-162	H-Q001-WS	H-Q001-BS
М	90	114	55	45	162-168	H-Q001-WM	H-Q001-BM
L	95	120	57	47	168-174	H-Q001-WL	H-Q001-BL
XL	100	126	59	49	174-180	H-Q001-WXL	H-Q001-BXL
XXL	105	132	61	51	180-186	H-Q001-WXXL	H-Q001-BXXL

Note:

- * When you order the ESD coat, after making sure of the size and color, please use the tool code numbers listed above
- \ast Minimum order quantity=12 pcs. Combination of different sizes in one color per order is acceptable
- * If embroidery, such as a company name etc. is required, please consult with Seiko Hong Kong Ltd., Parts Department.

Casing Tools



SEIKO Easy Snap Caseback Opener



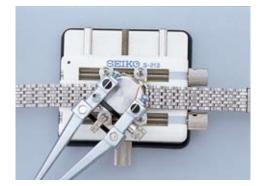
The opener and case vise are combined into one unit, making iteasy to open all kinds of snap casebacks. With the use of the posts with/without caps and rotatable case vise, the caseback can be opened without removing band.



A-MS19400 Case Opener for Screw Caseback



Used to remove the screw-type case back and bayonet-type case back.



S-212 SEIKO Multiple Case Holder



Suitable for chronograph watches. Adjustable chucks reducing the risk of damaging crowns and push buttons.

Speedy

The battery can be changed quickly without removing the band.

Non-slip base cover

Allows for use with one hand, even on a glass surface. A pin pusher is also provided



Casing Tools

S-282

SEIKO Snap Back Case Opener (Large, Pink)



Used to remove the case back with a wide opening notch.

S-283

SEIKO Snap Back Case Opener (Medium, Yellow)



Used to remove the case back with a narrow opening notch.

S-284

SEIKO Snap Back Case Opener (Small, Red)



Used to remove the small case back with a narrow opening.

A-MS30610 Snap Back Case Opener (Blade)



S-822 SEIKO Battery Hatch Opener



Used to open and close the battery hatch.

A-F20288 Screw Type Pressing Tool





* It is used for fastening the case back and glass attachment/removal. *When using it, it needs to be attached to the plastic holder of A-F249530.

A-F249530 11 pcs. of plastic holder for A-F20288



Hand Setting And Removing Tools





Band Sizing Tools



S-918B SEIKO Band Sizing Tool





Band Sizing Tools

S-914

Bracelet Adjusting Screwdriver



Used to remove and fix the bracelet or to adjust the length.

A-F219900

Pin Extractor Double-head Type



A-MS46000 Spring Bar Tool



A-SA14301 Awl (for Sizing Clip Spring Type Bracelets)



SPARE PARTS

S-914-01

Blade Set (Set of 5 Blades)



S-914-02

Exclusive Oscillating Weight Fixing Bit for Cal.4S Series (Attachment to S-914)





Spring Bar



A-F26825 F Spare Lead of A-F26825 (Regular size)

A-F26825FF Spare Lead of A-F266825 (Fine size)



Band Sizing Tools

S-919

Pliers

(for Sizing Clip Spring Type Bracelets)



S-927

Band Sizing Tool (for Expansion Type Bracelets)



Cleaning Tools

A-MY910 Nylon Cloth



A-MYW07 Chamois-Leather (Sheep skin)







H-X001

ANANTA Exclusive Return Container



When maintenance service is needed for the high-class watches including ANANTA, this container protects the watch from shock during transportation. The customer will be satisfied that his/her watch has been handled gently and safely.

Dimensions D95 x W93 x H83mm



The container includes a cushion.

Consumables

Watch Olis And Greases





Lubricants for pivots and holes of rotor.





(substitution for MS-A, MS-V)

Lubricants for train wheels and escapement.

(substitution for MS-F)

* AO oils have superior temperature characteristics and they are also chemically stable.





Oil for slipping attachment of automatic winding watches that use self-lubricating mainspring.

S-4 SEIKO Watch Grease



Lubricants for pawl lever and second reduction wheel of automatic winding mechanism, mainspring.





Lubricants for pawl lever and second reduction wheel of automatic winding mechanism, mainspring.

Consumables

Adhesives

S-314

SEIKO UV Cure Watch Glass Adhesive



No hardener required.

Silicon Greases

A-MY451 SEIKO Silicon Grease 500,000cs



Silicon oil for gaskets.

S-312

SEIKO Silicone Adhesive for Screws



S-916 SEIKO Greasing Pad



Silicon oil can be applied on gaskets without touching your fingers.

Demagnetizer and magnetometer

Demagnetizer

A-MS37500

Demagnetizer



Features -

- Auto power-off recovery switch
- Thermo sensor switch (80°C Off、 65° C On)

SPECIFICATIONS -

Power source	: AC 100V (50/60HZ)
Power consumption	: 90W (for coil) 5w (for lamp)
Overall dimensions	: φ80X70m/m(250g)

Magnetometer

A-EDTM20 Magnetometer



Features -

- Fully portable, compact and lightweight magnetometer/gaussmeter weighing only 300g.
- The miniaturized sensor(φ8mm)is ideal for watch applications.
- Measures DC fields.
- Indicates the remaining battery capacity.

SPECIFICATIONS -

Measurement Method	: Hall effect type
Scale of the Meter	: Dual scale of ± 2 and ± 4 mT
Measurement Range	: Can be changed
Over-range	: Is protected by the internal over- range protection circuit
Polarity	: Can be automatically changed
Battery Voltage	: Is indicated on the CELL CHECK of the A-EDTM20
Operating Temperature Range and Relative Humidity	: 0 °C to 35 °C and 80% RH or less (non-condensing)
Storage Temperature Relative Humidity	: -10 °C to 50 °C and 70% RH or less (non-condensing)
Current Consumption	: 7 mA
Overall Dimensions	: 80(W)X150(H)X50(D)mm

Paper for stopwatches



Thermal Paper (5 rolls) for Stopwatch with Printer



stop-watch printer / thermal roll paper for Cal. S149 (stop-watch unified with printer), Cal.SP12(printer)

S-951

Thermal Paper (3 rolls) for Stopwatch with Printer



stop-watch printer / thermal roll paper for Cal. S149 (stop-watch unified with printer), Cal.SP12(printer), use with paper holder SVAZ007