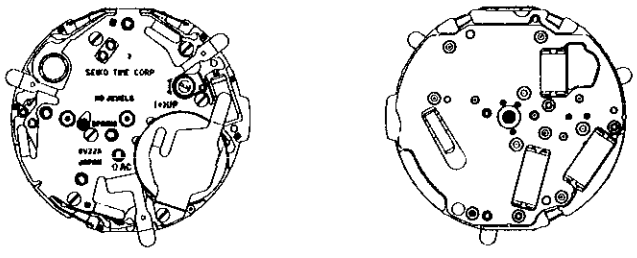
PARTS CATALOGUE / TECHNICAL GUIDE

Cal. 8V22A

[SPECIFICATIONS]

Item \ Cal. No.		8V22A
Movement		 (x 1.0)
Movement size	Outside diameter	ø29.1mm
	Casing diameter	—
	Height	3.3mm (3.8mm including the battery portion)
Time indication		3 hands and 24-hour hand
Driving system		Step motor (Fixed-width pulse system, 3 pcs.)
Additional mechanism		• Alarm (24-hour indication system) • World time (12 time zones) • Dual time • Hands 0-reset adjustment function • Alarm test system • Confirmation sound for watch operation
Loss/gain		Monthly rate at normal temperature range: less than 20 seconds
Regulation system		Trimmer condenser
Measuring gate by quartz tester		Any gate can be used.
Battery		SEIKO SR1130W, Maxell SR1130W, SONY SR1130W, EVEREADY 389 Battery life is approximately 2 years. Voltage: 1.55V
Jewels		0 jewel

SEIKO CORPORATION

PARTS CATALOGUE

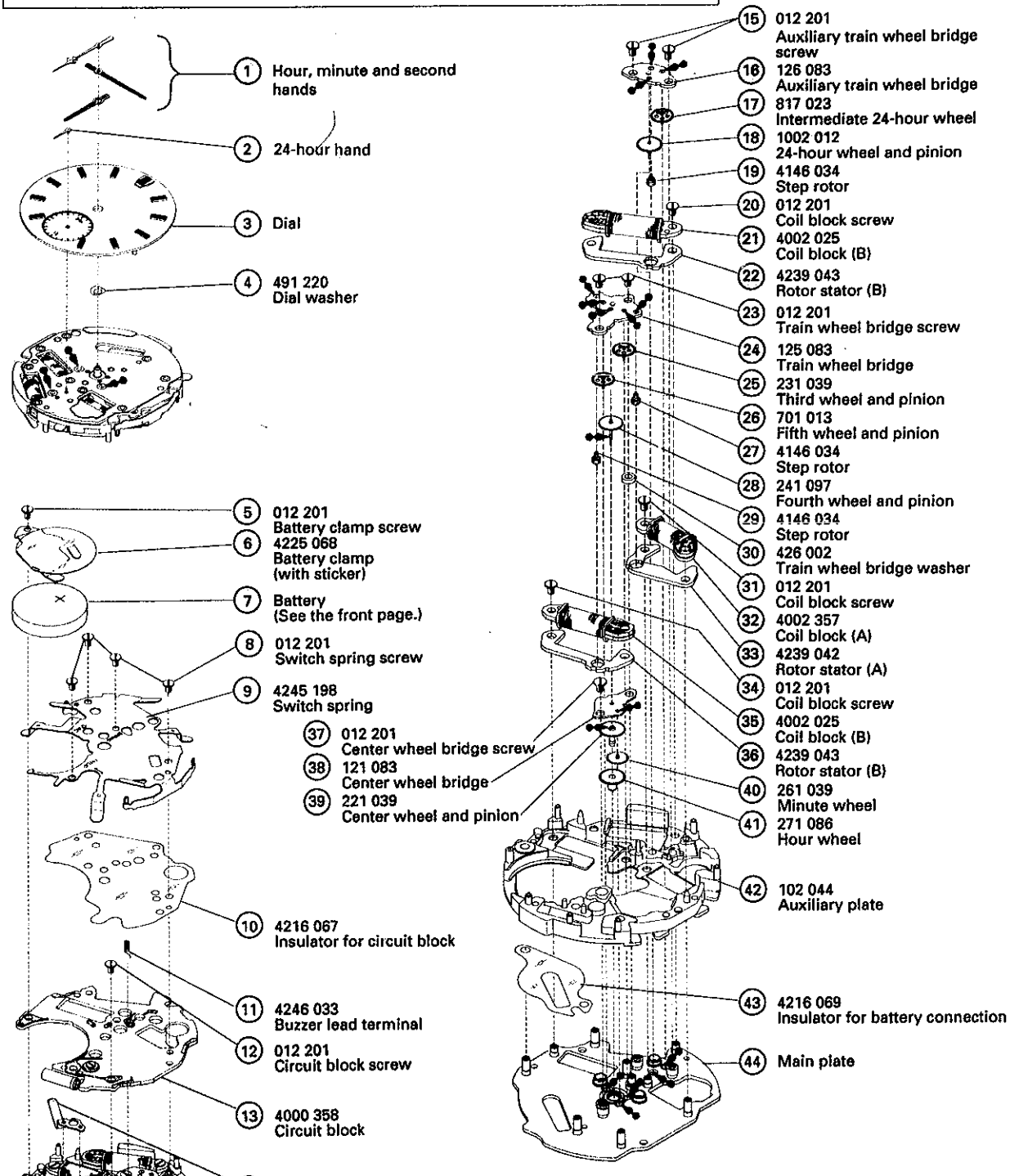
Cal. 8V22A

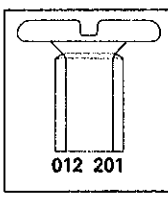
Disassembling procedures Figs. : (1) → (44)

Reassembling procedures Figs. : (44) → (1)

Lubricating: Types of oil — Moebius A

Oil quantity — Normal quantity





Battery clamp screw	(1 pc.)
Switch spring screw	(4 pcs.)
Coil block screw	(3 pcs.)
Circuit block screw	(1 pc.)
Auxiliary train wheel bridge screw	(2 pcs.)
Train wheel bridge screw	(2 pcs.)
Center wheel bridge screw	(1 pc.)

○ ⇨ Please see the remarks on the following pages.

PARTS CATALOGUE

Cal. 8V22A

Remarks:

- Other parts

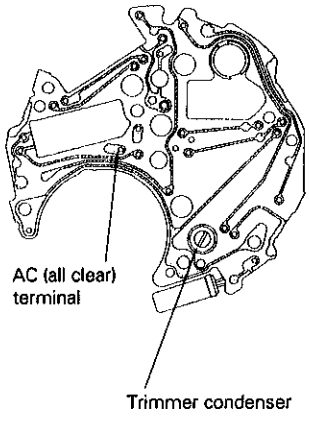
  Piezoelectric element 4589 650

TECHNICAL GUIDE

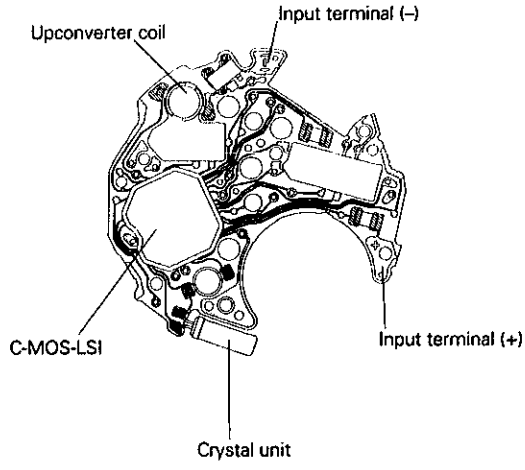
Cal. 8V22A

- The explanation here is only for the particular points of Cal. 8V22.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS"

I. STRUCTURE OF THE CIRCUIT BLOCK



(Front)



(Rear)

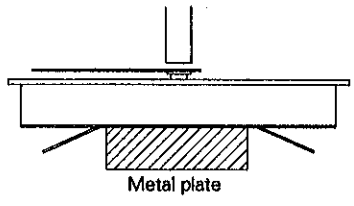
II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

① Hands

- **Remarks on installing**

When installing the hands, remove the battery and place the movement directly on a flat metal plate or the like.

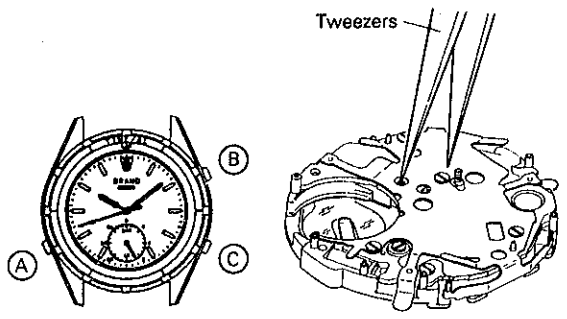


⑦ Battery

- **A necessary step after installing the battery**

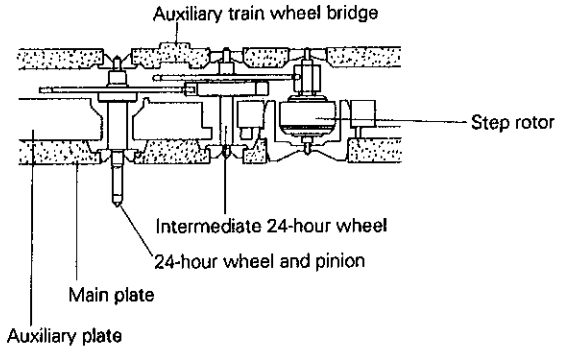
Immediately after the battery is replaced, be sure to act the system reset according to any one of the following manners:

1) Keep the three buttons pressed simultaneously for a few seconds.
2) Short-circuit the AC (all clear) terminal of the circuit block and switch spring with conductive tweezers to reset the circuit.



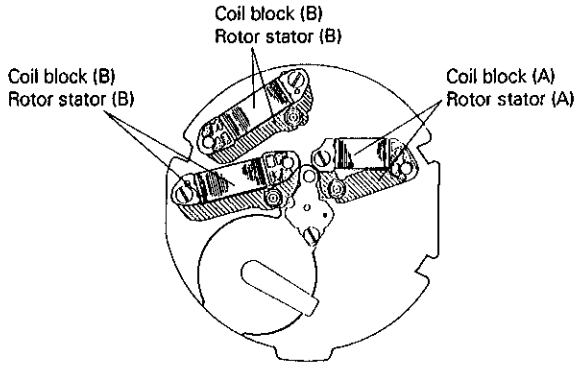
⑯ Auxiliary train wheel bridge

- **Setting position**



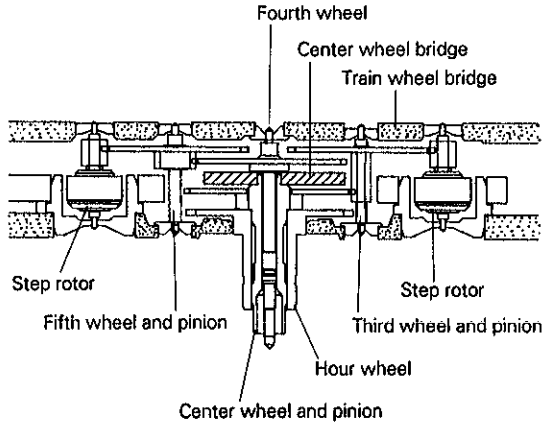
㉑ ㉟ Coil block (B)
㉜ Coil block (A)
㉒ ㊱ Rotor stator (B)
㉝ Rotor stator (A)

- **Setting position**



㉔ Train wheel bridge

- **Setting position of the train wheel**



III. VALUE CHECKING

- Coil block resistance

  Coil block (A) : 1.2KΩ ~ 1.8KΩ
  Coil block (B) : 1.9KΩ ~ 2.3KΩ

- Upconverter coil resistance

  130Ω ~ 170Ω

- Current consumption

  For the whole of the movement : less than 4.0μA
  For the circuit block alone : less than 1.9μA