

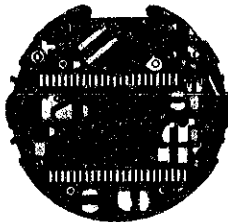
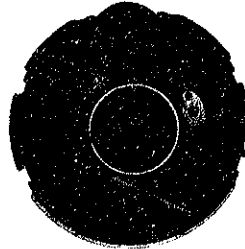
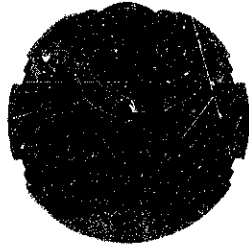
SEIKO

DIGITAL QUARTZ

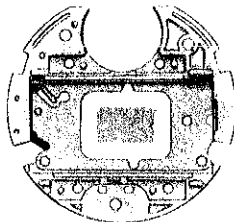
Cal. A135A

PARTS LIST

Cal. A135A



4001 869



4033 860



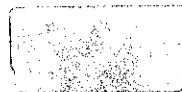
4245 860



4313 860



☆4510 830



4521 550
4521 551



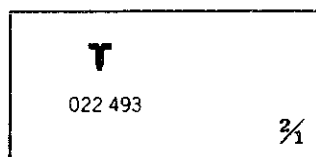
4540 860



4580 861



☆ Maxell SR1120W



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022 493

3/1

Cal. A135A

Characteristics

Casing diameter : ϕ 30.1 mm
 Maximum height : 5.9 mm without battery
 Frequency of quartz crystal oscillator : 32,768 Hz (Hz=Hertz Cycles per second)
 Time display : Digital display system showing hour, minute, second and day of the week.
 Calendar display : Digital display system showing month, date, day of the week and "A"(AM) / "P"(PM).
 Alarm display : Can be set to operate at any desired hour and minute.
 Time signal : Can be set to ring every hour on the hour.
 Regulation system : Trimmer condenser
 Illuminating light : Illuminates all the digital displays in the dark by depressing the light button.
 Battery life indicator : All the digits in the display begin flashing.

PART NO.	PART NAME	PART NO.	PART NAME
4001 869	Circuit block		
4033 860	Liquid crystal panel frame (with bulb)		
4245 860	Switch spring		
4313 860	Connector		
☆4510 830	Liquid crystal panel		
4521 550	Reflecting mirror (Silver)		
4521 551	Reflecting mirror (Gold)		
4540 860	Liquid crystal panel holder		
4580 861	Speaker block		
022 493	Liquid crystal panel holder screw		
☆Maxell SR1120W ☆U.C.C. 391 ☆Toshiba SR1120W	Silver oxide battery		

Remarks :

Liquid crystal panel

☆4510 830.....Be sure that the combination between the color of panel cover and liquid crystal panel should be matched according to the "SEIKO Quartz Casing Parts List".

Battery

☆Maxell SR1120W }
 ☆U.C.C. 391 }The substitutive battery might be added to the applied battery in the future.
 ☆Toshiba SR1120W }In that case, please refer to separate "BATTERY LIST FOR SEIKO QUARTZ WATCHES".

☆⇨ Please see remarks.

Part numbers in light letters are not shown in photos.

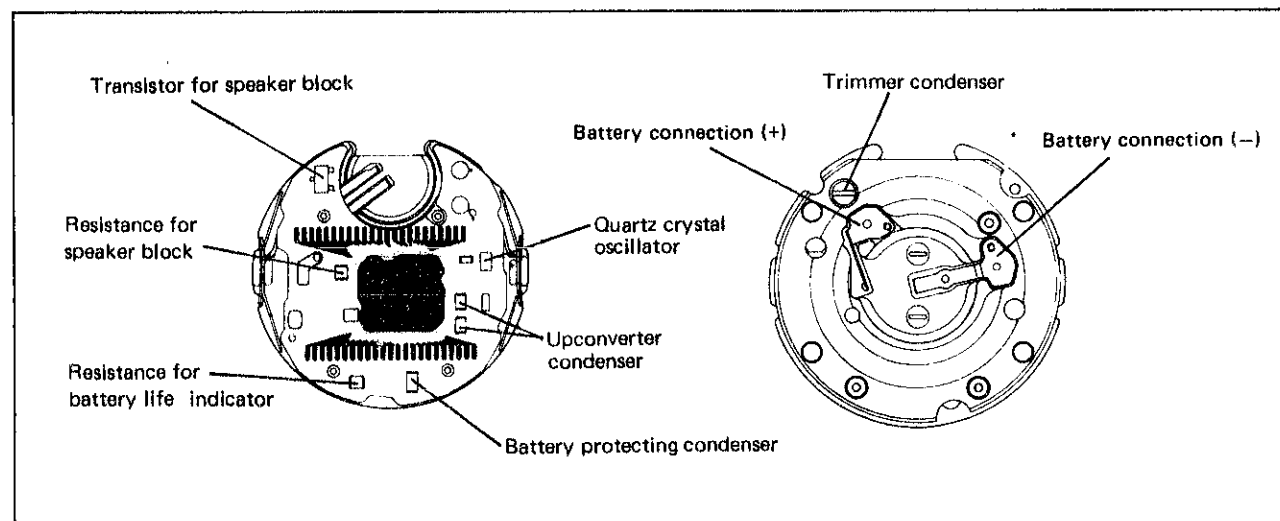
SEIKO Technical Guide Bulletin of Cal. A135A

The repairing procedures for Cal. A135A are the same as those of Cal. A134A. In repairing this calibre, refer to the "Technical Guide of Cal. A134A" and the "SEIKO Watch Casing Guide" by calibres.

I. SPECIFICATIONS

Item	Cal. No.	A135A
Display medium		Nematic Liquid Crystal, FEM (Field Effect Mode)
Display system		<ul style="list-style-type: none"> • Time function • Calendar function • Alarm function
Additional mechanism		<ul style="list-style-type: none"> • Alarm test system • Battery life indicator • Time signal • Illuminating light • Pattern segment checking system
Loss/gain		Loss/gain at normal temperature range Monthly rate: less than 15 seconds (Annual rate: less than 3 minutes)
Casing diameter		φ30.1mm
Height		5.9mm without battery
Regulation system		Trimmer condenser
Battery		U.C.C. 391, Maxell SR1120W or Toshiba SR1120W Battery life is approximately 2 years. Voltage: 1.55V

II. STRUCTURE OF THE CIRCUIT BLOCK



III. PARTS DIFFERENT FROM CAL. A135A'S

* Refer to the SEIKO Parts Catalogue for details.

Name	Part No.
Circuit block	4001 869
Speaker block	4580 862
Battery	U.C.C. 391, Maxell SR1120W or Toshiba SR1120W