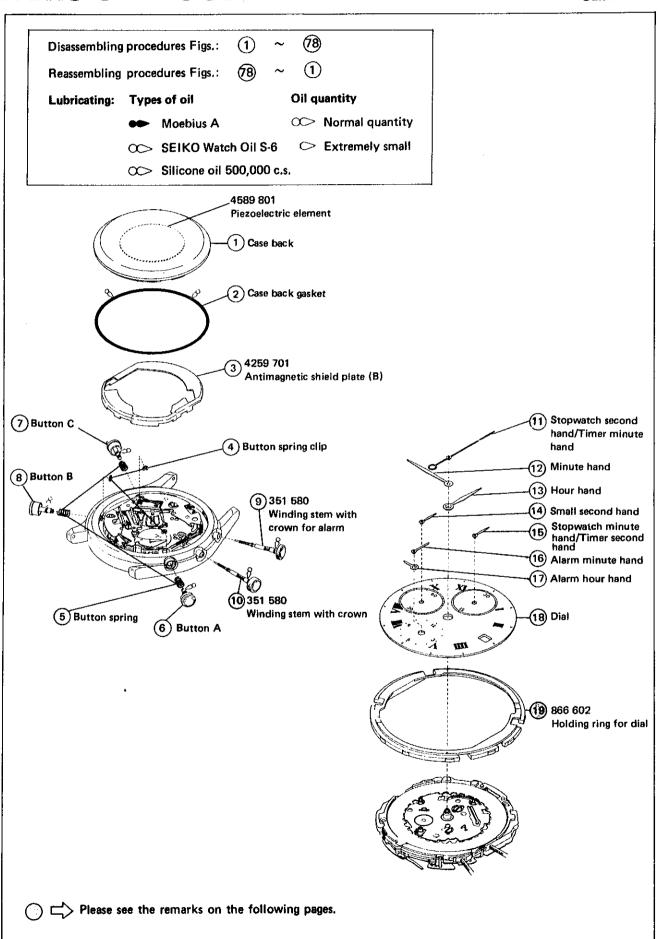
PARTS CATALOGUE/TECHNICAL GUIDE

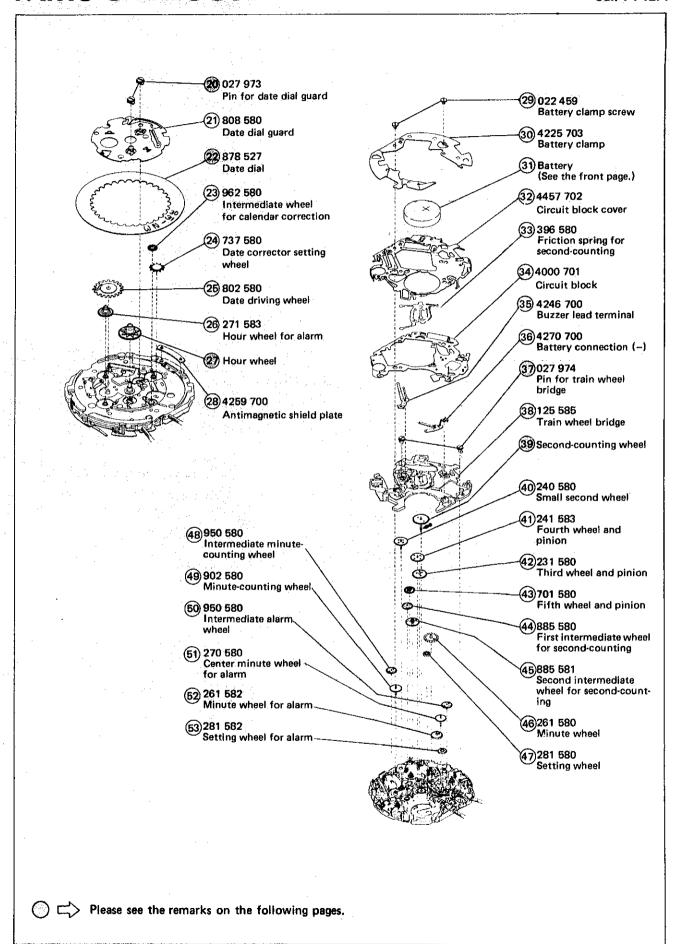
Cal. 7T42A

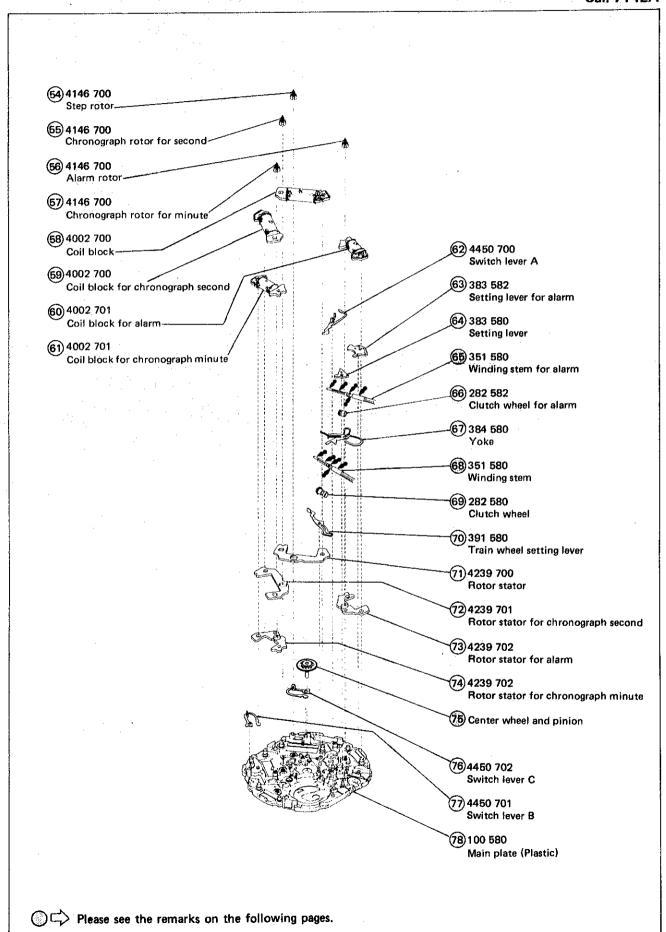
[SPECIFICATIONS]

Cal. No.		7T42A					
Item							
Movement		(x 1.0)					
	Outside diameter	φ27.6mm 24.0mm between 3 o'clock and 9 o'clock sides					
Movement size	Casing diameter	φ27.0mm 24.0mm between 3 o'clock and 9 o'clock sides					
	Height	3.1mm (3.2mm including the battery portion)					
Time indication		Main time	Stopwatch function	Alarm function	Timer function		
		Hour, minute and small second hands	Minute and 1/5- second hands	Small hour and minute hands	Minute and second hands (Stopwatch 1/5-second and minute hands)		
Driving system		Step motor, 4 pieces	3				
Additional mechanism		 Electronic circuit reset switch Train wheel setting device Battery life indicator Date calendar Instant setting device for date calendar Stopwatch function (Up to 30 minutes in 1/5 seconds) Accumulated elapsed time measurement Split time measurement Timer function (Up to 60 minutes in minutes) Alarm function (12-hour indication system) Alarm test system 					
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds					
Regulation system		Nit					
Measuring gate by quartz tester		Use 10-second gate.					
Battery		SEIKO SR927W, Maxell SR927W, SONY SR927W, EVEREADY 399 Battery life is approximately 2 years. Voltage: 1.55V					
Jewels		0 jewel					

HATTORI SEIKO CO., LTD.







Remarks:

(19) Holding ring for dial 866 602

The type of holding ring for dial is determined based on the design of cases.

Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding holding ring for dial

(22) Date dial 878 527 (black figures on white background)

Used when the crown and calendar frame are located at the 3 o'clock position.

The type of date dial is determined based on the design of cases.

If any other type of date dial is required, check the case number and refer to "SEIKO Casing Parts Catalogue" or "List of Date Dial" to choose a corresponding date dial.

- (27) Hour wheel
- (39) Second-counting wheel
- (75) Center wheel and pinion

Combination

Unidination						
Parts name Type*	Hour wheel	Second-counting wheel	Center wheel and pinion			
M						
	271 580	888 580	221 580			
L		A.				
	271 588	888 582	221 583			

* Abbreviation

M Standard type

(Movement type) L Long type

- (65) Winding stem for alarm 351 580
- (68) Winding stem 351 580

The type of winding stem for alarm and winding stem are determined based on the design of cases.

Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding winding stem.

- (20) Pin for date dial guard
- (37) Pin for train wheel bridge

For distinction between the pins, see the illustration below.

[Pin for date dial guard]



027 973

[Pin for train wheel bridge]



027 974

- The explanation here is only for the particular points of Cal. 7T42A.
- For the repairing, checking and measuring procedures, refer to the "PARTS CATALOGUE/TECHNICAL GUIDE for Cal. 7T32A" and the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

I. POINTS OF DIFFERENCE BETWEEN Cal. 7T32A AND Cal. 7T42A

• Specifications of the CPU-IC have been changed and Cal. 7T42A is equipped with a timer function.

Difference in parts

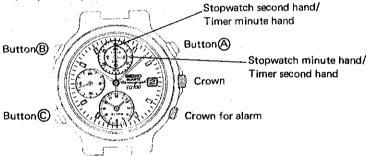
Parts newly added for Cal. 7T42A

Antimagnetic shield plate (B) 4259 701 Antimagnetic shield plate 4259 700

· Parts with different part No.

	Cal. 7T32A	Cal. 7T42A	Difference
Circuit block cover	4457 700	4457 702	Marking has been changed.
Circuit block	4000 700	4000 701	Specifications of IC have been changed.

• When using the timer, the stopwatch second and stopwatch minute hands functions as the timer minute and timer second hands, respectively.



II. CHECKING OF THE FUNCTIONS OF Cal. 7T42A

The following checking procedure should be carried out in addition to those for Cal. 7T32A.

- Checking of the timer function
- 1) Pull out the crown for alarm to the first click. The warning beep may sound. In that case, press "A", "B" or "C" to stop it.
- 2) Press "B" twice to set the timer minute hand (stopwatch second hand) for "2 minutes".
- 3) Press "A" to check if the timer starts counting down.
 As "A" is pressed, the timer minute hand (stopwatch second hand) moves back one minute and the timer second hand (stopwatch minute hand) starts moving counterclockwise.
- 4) Check if, from one minute before the set time is up, the timer second hand stops and the timer minute hand moves counterclockwise at one-second intervals.
- 5) Check if the warning beep sounds once every second for 3 seconds before the set time is up.

TECHNICAL GUIDE

III. VALUE CHECKING

Coil block resistance

• Upconverter coil resistance : $45\Omega \sim 60\Omega$

• Current consumption

Before measuring current consumption, be sure to reset the circuit.

*Refer to "A necessary step after installing the battery".

For the whole of the movement

Time mode : less than $2.5\mu A$ Stopwatch mode : less than $9.5\mu A$

For the circuit block alone

Time mode : less than $1.8\mu A$

Time accuracy

When measuring the accuracy, make sure that the crown for alarm (at the 4 o'clock side) is at the first or second click position.