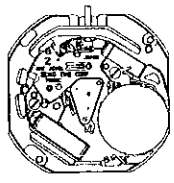
PARTS CATALOGUE/TECHNICAL GUIDE

Cal. 7N35C
Cal. 7N36C

[SPECIFICATIONS]

Item \ Cal. No.		7N35C	7N36C
Movement		  The illustrations refer to Cal. 7N36C. (x 1.0)	
Movement size	Outside diameter	ø24.0mm 21.5mm between 6 o'clock and 12 o'clock sides 21.3mm between 3 o'clock and 9 o'clock sides	
	Casing diameter	ø23.3mm 21.5mm between 6 o'clock and 12 o'clock sides 21.3mm between 3 o'clock and 9 o'clock sides	
	Height	2.78mm	
Time indication		3 hands	
Driving system		Step motor (Load compensated driving pulse type)	
Additional mechanism		Date calendar	
		Instant setting device for date calendar	
		–	Day calendar
		–	Instant setting device for day calendar
		Train wheel setting device	
		Electronic circuit reset switch	
		Battery life indicator	
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds	
Regulation system		Nil	
Measuring gate by quartz tester		Use 10-second gate.	
Battery		SEIKO SR920SW, Maxell SR920SW, SONY SR920SW, Matsushita SR920SW, EVEREADY 371 Battery life is approximately 4 years. Voltage: 1.55V	
Jewels		1 jewel	

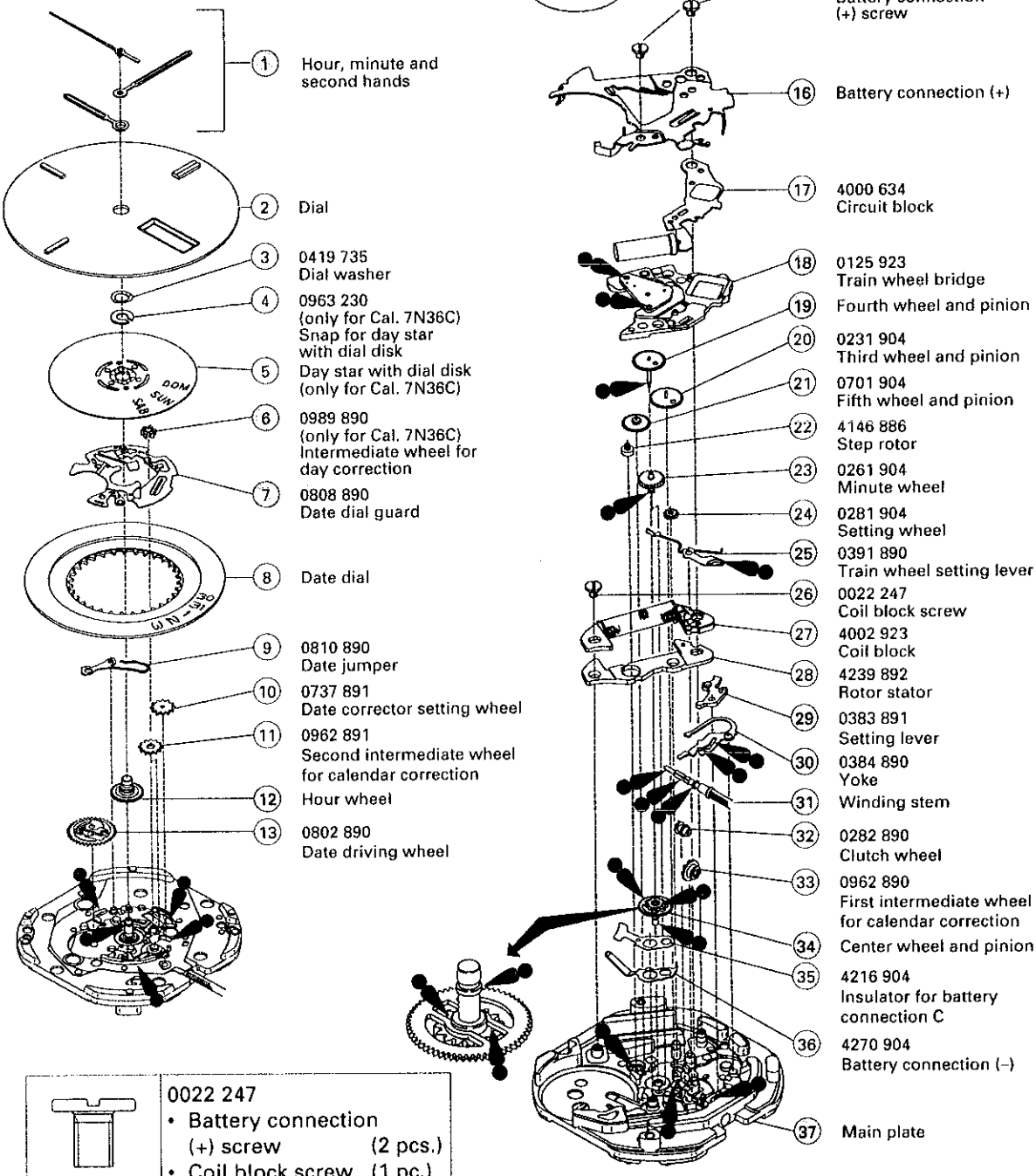
Disassembling procedures Figs. : (1) → (37)

Reassembling procedures Figs. : (37) → (1)

Lubricating: **Types of oil** — Moebius A

Oil quantity — Normal quantity

Ex. : Cal. 7N36C



1. Hour, minute and second hands
2. Dial
3. 0419 735 Dial washer
4. 0963 230 (only for Cal. 7N36C) Snap for day star with dial disk
5. Day star with dial disk (only for Cal. 7N36C)
6. 0989 890 (only for Cal. 7N36C) Intermediate wheel for day correction
7. 0808 890 Date dial guard
8. Date dial
9. 0810 890 Date jumper
10. 0737 891 Date corrector setting wheel
11. 0962 891 Second intermediate wheel for calendar correction
12. Hour wheel
13. 0802 890 Date driving wheel
14. Battery (See the front page.)
15. 0022 247 Battery connection (+) screw
16. Battery connection (+)
17. 4000 634 Circuit block
18. 0125 923 Train wheel bridge
19. Fourth wheel and pinion
20. 0231 904 Third wheel and pinion
21. 0701 904 Fifth wheel and pinion
22. 4146 886 Step rotor
23. 0261 904 Minute wheel
24. 0281 904 Setting wheel
25. 0391 890 Train wheel setting lever
26. 0022 247 Coil block screw
27. 4002 923 Coil block
28. 4239 892 Rotor stator
29. 0383 891 Setting lever
30. 0384 890 Yoke
31. Winding stem
32. 0282 890 Clutch wheel
33. 0962 890 First intermediate wheel for calendar correction
34. Center wheel and pinion
35. 4216 904 Insulator for battery connection C
36. 4270 904 Battery connection (–)
37. Main plate

0022 247
- Battery connection (+) screw (2 pcs.)
- Coil block screw (1 pc.)

○ ⇨ Please see the remarks on the following pages.

Remarks:

(12) Hour wheel

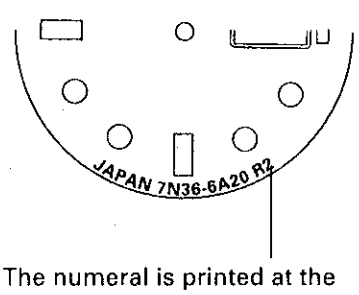
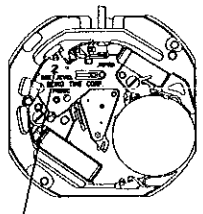
(19) Fourth wheel and pinion

(34) Center wheel and pinion

(37) Main plate

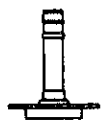
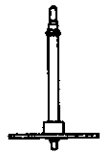
- **Discrimination of the hand installation height**

Cal. 7N series watches have numerals printed on the dial and the movement to indicate the hand installation heights. When repairing, refer to the table below.

Discrimination	Height	Standard type	
	Numeral for discrimination	2	
Printed on		Dial	Movement
Printed position		Ex) Standard type  The numeral is printed at the right end.	Ex) Standard type  The numeral is printed below the calibre number.

Combination:

* The hand installation heights can be known from the shape of the following parts. Refer to the table below.

Numeral for discrimination	Center wheel and pinion	Fourth wheel and pinion	Hour wheel	Main plate (Center pipe)
2	 0221 939	 0241 934	 0271 934	 0100 943

PARTS CATALOGUE

(16) Battery connection (+) 4268 620

The battery connection (+) we are supplying has no calibre number nor numeral printed on it for discriminating the hand installation height.

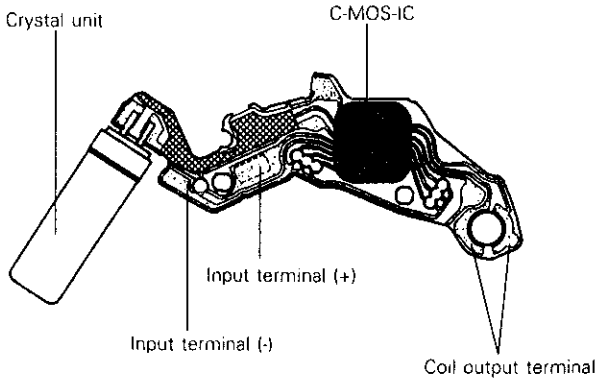
(31) Winding stem 0351 892

The type of winding stem is determined based on the design of cases.
Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding winding stem.

TECHNICAL GUIDE

- The explanation here is only for the particular points of Cal. 7N35C and 7N36C.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

I. STRUCTURE OF THE CIRCUIT BLOCK



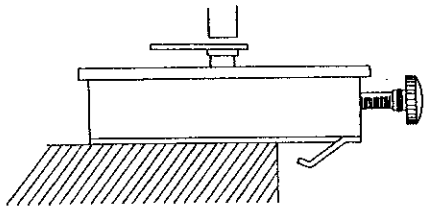
II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

(1) Hands

- **How to install**

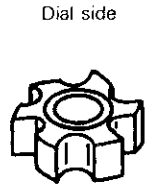
When installing the hands, remove the battery and place the movement directly on a flat metal plate or the like.



Metal plate

(6) Intermediate wheel for day correction (only for Cal. 7N36C)

Set the intermediate wheel for day correction in the direction as shown in the illustration at right.



(7) Date dial guard

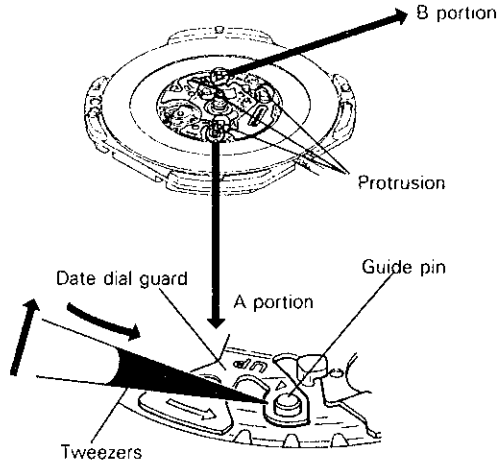
Unlike conventional movements, the date dial guard is not fixed with screws. It is set to the main plate with the three protrusions, which are caught under the main plate by turning the guard. Then, it is fixed by the two guide pins.

- **How to remove**

1) Lightly lift the A portion of the date dial guard with tweezers to release it from the guide pin, and then move it in the counterclockwise direction until it gets on the guide pin.

2) Release the B portion of the date dial guard in the same way as described above, and then move it in the counterclockwise direction until it gets on the guide pin.

3) Check that all the three protrusions of the date dial guard have come off from the main plate, and then remove the date dial guard.



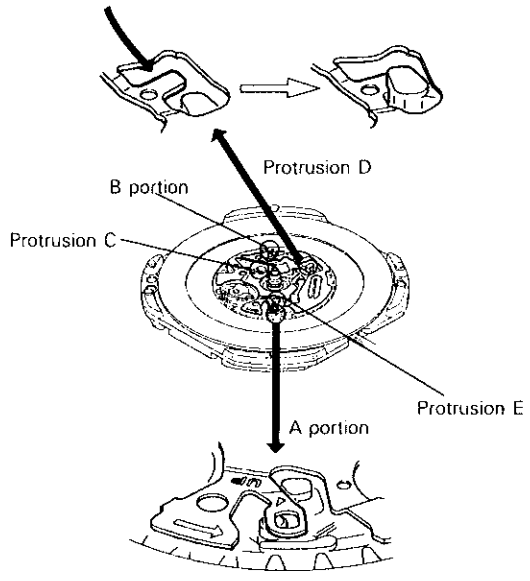
• **How to install**

1) Put the date dial guard on the main plate so that the A and B portions are over the guide pins, as shown in the illustrations at right.

2) Move the protrusion D of the date dial guard in the clockwise direction so that it is caught under the main plate.

3) Slightly move the protrusions C and E in the clockwise direction alternately to set them under the main plate. Then, set the A and B portions of the date dial guard to the guide pins.

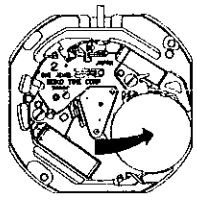
4) Check that the date dial guard is fixed securely to the main plate.



(14) Battery

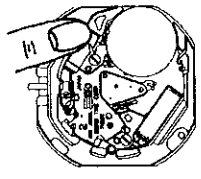
• **How to install**

Insert the battery aslant from the direction shown by the arrow.



(15) Battery connection (+) screw

Fasten the screw on the crystal unit side while holding down the edge of the crystal unit.



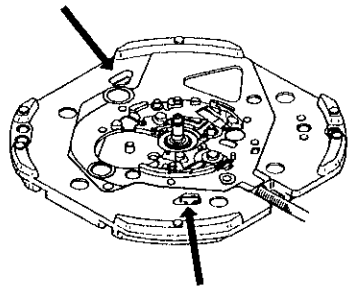
(16) Battery connection (+)

• **How to install**

Have the hooking portion (2 places) catch the main plate.

In disassembling and reassembling, take care not to deform the hooking portions.

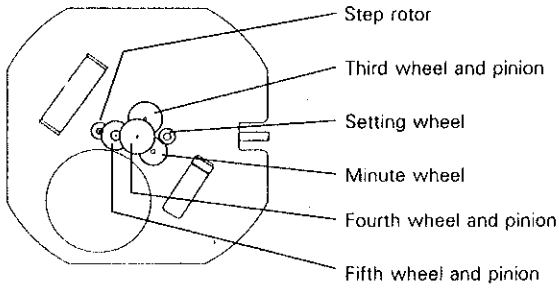
After installing the battery connection (+), check that the two hooking portions securely catch the main plate.

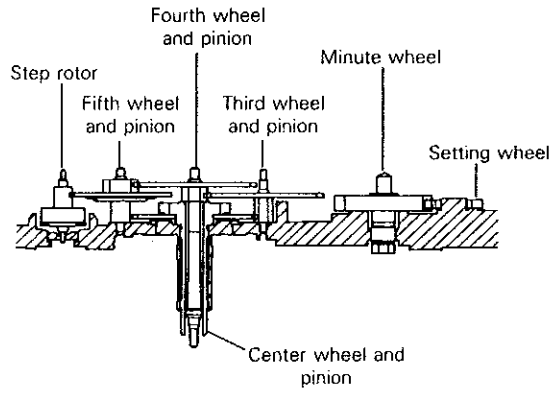


(18) Train wheel bridge

- **Setting position**

Refer to the illustrations below.





Note: Take care not to damage the wheels made of plastics in disassembling and reassembling.

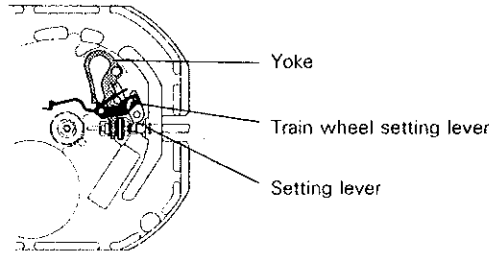
(25) Train wheel setting lever

(29) Setting lever

(30) Yoke

- **Setting position**

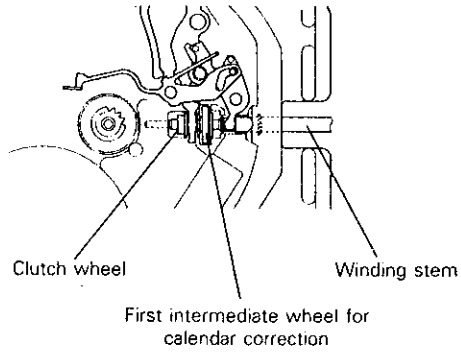
Refer to the illustration at right.



Note: Take care not to deform the spring portion of the yoke.

(31) Winding stem

The first intermediate wheel for calendar correction has some elasticity in the contact with the winding stem so that it can be easily fixed.
Push in the winding stem straight toward the center of the main plate.



III. VALUE CHECKING

- **Coil block resistance**

  1.18KΩ ~ 1.58KΩ

- **Current consumption**

  For the whole movement : less than 1.20μA

  For the circuit block (4000 634) alone : less than 0.28μA

Remarks: When the current consumption exceeds the standard value for the whole movement but within the standard value range for the circuit block alone, the watch is generating the driving pulse for compensating for the heavy load that may be applied to the gear train, etc.
In this case, overhaul and clean the movement parts and then measure current consumption for the whole movement again.

95-3 Printed in Japan