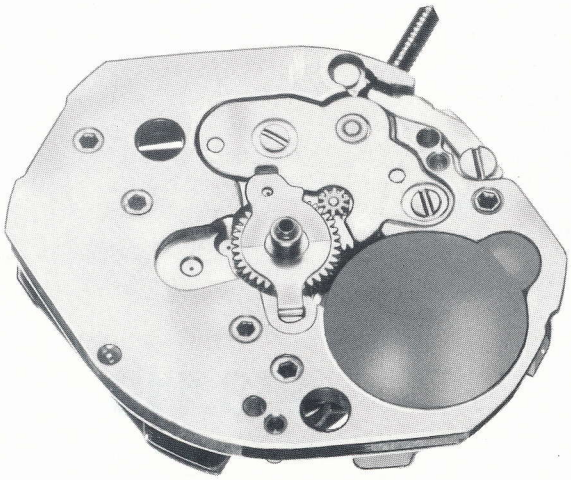
BLUEBIRD 168

TECHNICAL INFORMATION

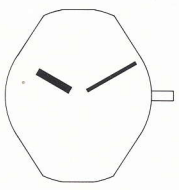
March 1988

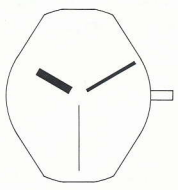


Dimension:	0,6024 × 0,7008 inch	(15,30 × 17,80 mm)
Height:	0,1102 inch	(2,80 mm)
Height of handsetting stem:	0,0394 inch	(1,00 mm)
Position of dial feet:	DIN	8240
Independent coil		
With or without second		

6 ¾ × 8‴

168.100 **168.110**





It's Swiss
It's Quality
It's Quartz

BLUEBIRD

It's EBOSA

EBOSA SA, CH-2540 Grenchen Téléphone 065/51 22 15 Télex 93 43 02 Fax 065/52 79 97

Technical characteristics

Movement
- 0 Jewels.
- With or without centre seconds.
- Stop-second device interrupting the current of the motor by means of pulling the crown.
- Battery (Silveroxyd) ∅ 0,2677 × 0,0827 inch (6,80 × 2,10 mm), easy interchangeable by swivelling bridle+.

Frame
- Basic elements according to NIHS norms.
- Height of handsetting stem from dial base 0,0394 inch (1,00 mm), ∅ of thread S 0,0354 inch (S 0,90 mm (see illustr. C).
- The magnetic screen and the battery are integrated in the dimension of the movement.

Train wheel gear
- By interchanging 5 components, the version with seconds can be transfered to the execution without seconds (see illustr. A/B).

With seconds:

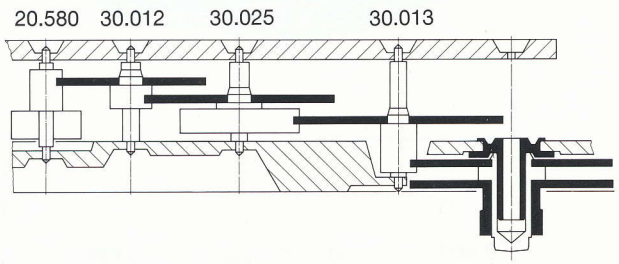
10.513	Electronic module (with second)
20.590	Coil (with second)
30.027	Second wheel
31.083	Cannon pinion with driver, (with second)
56.071	Stop lever, for sweep second

Without seconds:

10.513.18	Electronic module (without second)
20.590.18	Coil (without second)
30.025	Third wheel
31.083.18	Cannon pinion with driver (without second)
56.70	Stop lever

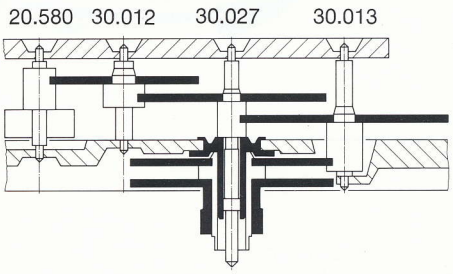
Performance
- Precision of rate by 25° C ± 4 mon/a (± 0,7 s/d).
- Self contained operation:
  with seconds 20 months
  without seconds 38 months
- Working temperature from + 8° to + 38° C.
- Resistance to shocks and magnetic fields corresponds with the official quality control of the swiss watch industry.

168.100



Illustr. A

168.110



Illustr. B

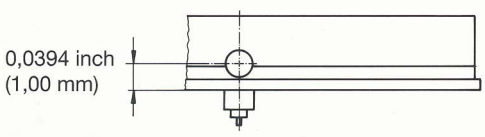
Electronic
- Integrated circuit C-MOS/impulse width of 59 6,8 ms for execution with seconds and
  59 7,9 ms for execution without seconds.
- Adjustment of frequency by means of trimmer or Chip-Cap.

Stepping motor
- Powerful stepping motor, 1 impulse per second (180°), for execution with seconds and 1 impulse every 5 seconds (180°) for execution without seconds.
- Low current consumption.
- Independent coil, with efficient protection, easy interchangable.

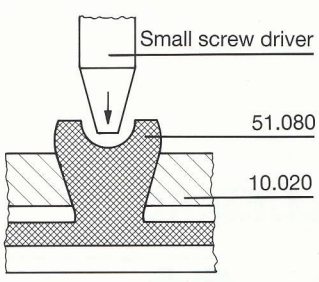
Hands-fitting extracting the handsetting stem
- There are 3 different heiths of handsetting (see page 6).
- When ordering spare parts please indicate part number and total height.
- The hour wheel (31.046) is positioned by hour wheel cover (10.211).
- In order to take out the handsetting stem (51.020.21), the axis of the setting lever (51.080) must be pressed down with a small screw driver [width approx. 0,0315 inch (0,80 mm)] (see illustr. D).

Dial and hands indication
- Hands fitting and heights are in accordance with NIHS norms (see page 6).
- The dial is fixed by means of 2 dial keys which are riveted to the main plate (see illustr. E).

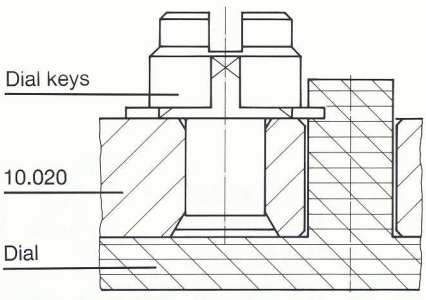
Feet ∅	0,0256 inch (0,65 mm)
Feet lenghts	0,0472 inch (1,20 mm)



Illustr. C



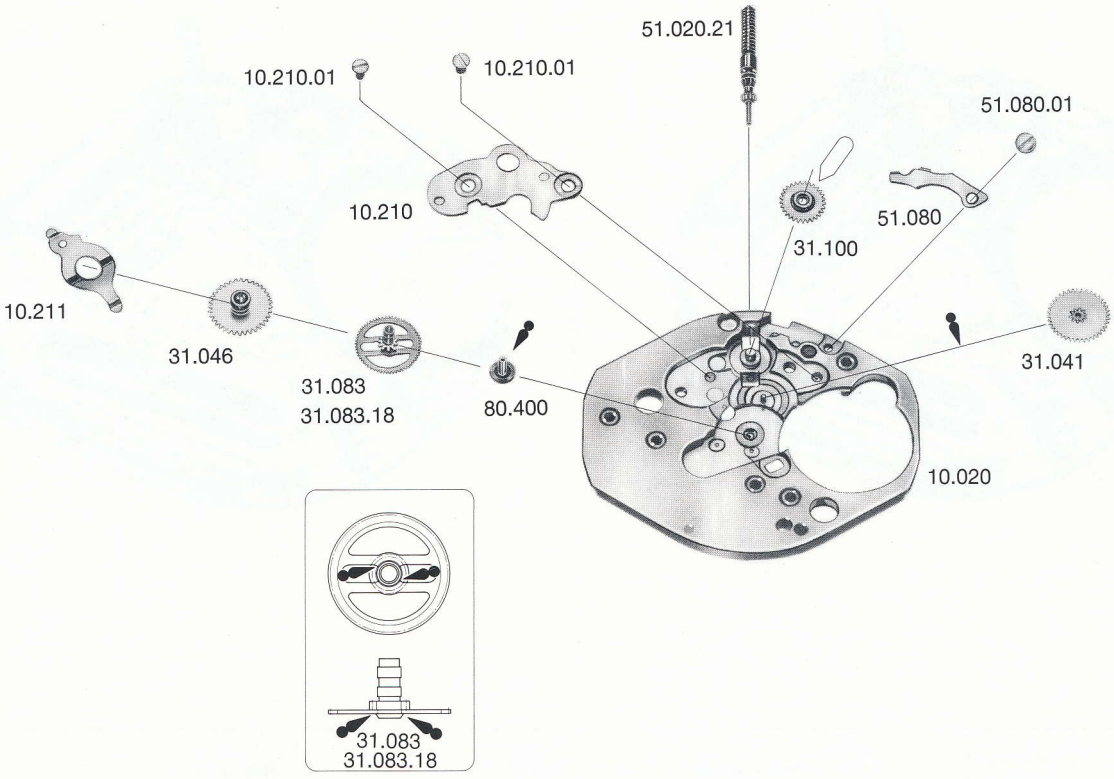
Illustr. D



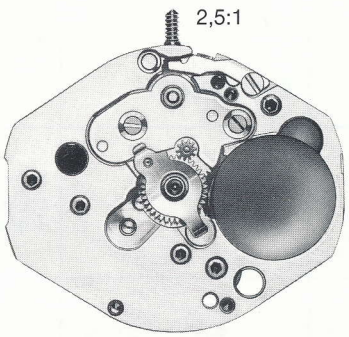
Illustr. E

We reserve the right
for technical alterations.

For the assembly and casing of this calibre, we have additional technical information and drawings free of charge at your disposal.



Side of dial
2,5:1



LIST OF BASIC MOVEMENT MATERIALS

10.020	Main plate
10.048	Train wheel bridge
10.210	Winding and setting mechanism cover
10.211	Hour wheel cover
20.570	Battery
20.580	Rotor
20.582	Stator
20.584	Magnetic screen
20.701	Battery support
20.761	Bridle +
20.763	Bridle –
30.012	Intermediate wheel
30.013	Transmission wheel for intermediate wheel
31.041	Minute wheel
31.046	Hour wheel
31.100	Setting wheel
51.020.21	Handsetting stem, S 0,0354 inch (0,90 mm)
51.080	Setting lever
80.400	Centre tube

WITH SECOND

10.513	Electronic module (with second)
20.590	Coil (with second)
30.027	Second wheel
31.083	Cannon pinion with driver (with second)
56.071	Stop lever, for sweep second

WITHOUT SECOND

10.513.18	Electronic module (without second)
20.590.18	Coil (without second)
30.025	Third wheel
31.083.18	Cannon pinion with driver (without second)
56.070	Stop lever

SCREWS

10.048.01	Screw for train wheel bridge
10.210.01	Screw for winding and setting mechanism cover
10.513.01	Screw for electronic module
20.584.01	Screw for magnetic screen
51.080.01	Screw for setting lever

FOR SPECIAL DEMANDS

20.552	Coil additional printed circuit
20.624	Contactor banking stop

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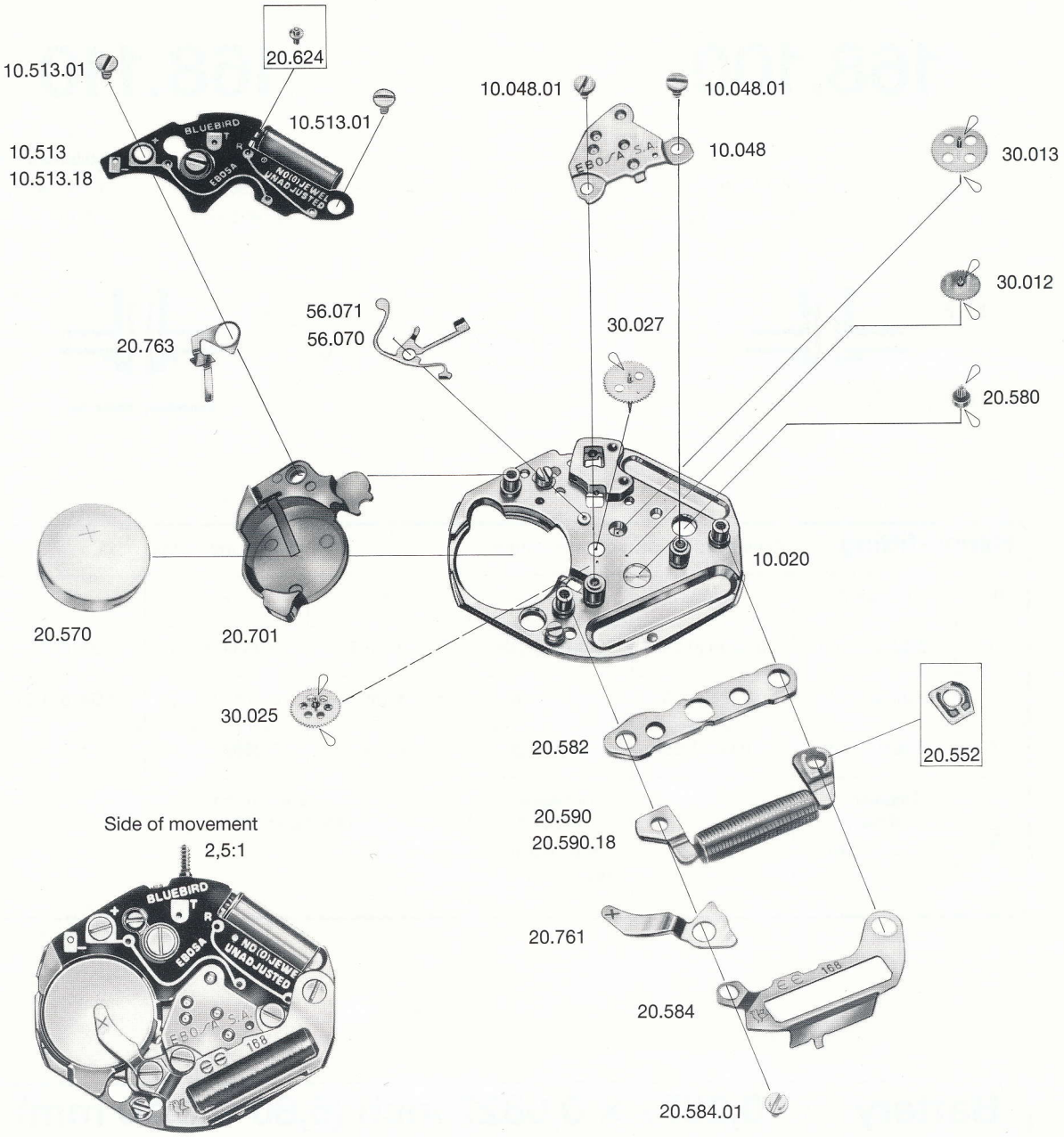

Fine oil, e.g. Moebius 9010, 9020	Thick, pressure-resistant oil, e.g. Rubin G8 or JISMAA 124V	Pregreased state. After washing lubricate with Moebius spec. 8222

Acording to NIHS-norm 99-02 and SN 289 902. Oil only very little!

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