

Ebosa 168.100,168.110 Movement Parts (1)

Compiled by EmmyWatch - https://www.emmywatch.com



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) Ø 0,2677 × 0,0827 inch With seconds: $(6,80 \times 2,10 \text{ mm})$, 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), Ø of thread S 0,0354 inch (S 0,90 mm (see illustr. C).
- The magnetic screen and the battery are in- Without seconds: tegrated in the dimension of the movement.

Train	wheel	dear
IIami	AALICCI	goui

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

III SECON	JS.
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

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.



Electronic

- Integrated circuit C-MOS/impulse width of the handsetting stem 596,8 ms for execution with seconds and
- 5.9 7,9 ms for execution without seconds.
- Adjustment of frequency by means of trim- mer 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

Illustr. D

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



Illustr. C

We reserve the right for technical alterations.







LIST OF E	BASIC MOVEMENT MATERIALS	WITH S
10.020	Main plate	10.513
10.048	Train wheel bridge	20.590
10.210	Winding and setting mechanism	30.027
	cover	31.083
10.211	Hour wheel cover	
20.570	Battery	56.071
20.580	Rotor	
20.582	Stator	WITHO
20.584	Magnetic screen	10.513.
20.701	Battery support	20.590.
20.761	Bridle +	30.025
20.763	Bridle –	31.083.
30.012	Intermediate wheel	
30.013	Transmission wheel	56.070
	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	

10/1	TH	SE	co	ND

0.513	Electronic	module	(with	second)

590	Coil	(with	second)	
.000	001		50001101	

20.000	0011 (With 3000110)
30.027	Second wheel

Second	wheel	. 0

annon	pinion	with	driver	

Cannon pinion with dr	river
(with second)	

(with second) Stop lever, for sweep second 56.071

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 Chen Lever 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

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FOR SPECIAL DEMANDS 20.5

52	Coil additional printed circuit
624	Contactor banking stop

