

EBAUCHES S. A.

NEUCHÂTEL

SWITZERLAND

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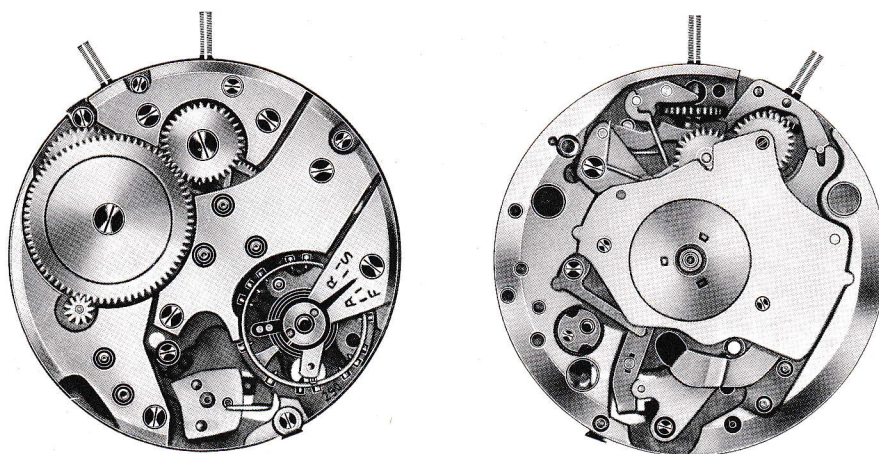
FABRIQUE D'EBAUCHES
VENUS S. A., MOUTIER

12½''' **230**
ALERTIC
28 mm

Lever movement, direct sweep second, with :

Alarm device

Caliber with single barrel



Enlarged movement

TECHNICAL AND PRACTICAL COMMUNICATION FOR THE GUIDANCE OF WATCH REPAIRERS

3. Fit barrel arbor wheel for alarm 7202, alarm stop wheel spring 7441, alarm stop wheel 7437, ratchet wheel 415 with its screw, and crown wheel 420 with its screw.
4. Fit the parts of the ordinary winding and setting mechanism, then alarm setting wheel 7295, alarm setting stem 7405, alarm setting lever 7443, setting lever spring (set bridge) 445 with its screw 5445, disconnecter 7459, disconnecter spring 7480, alarm bolt 7496, alarm bolt yoke 7486, friction spring of unlocking wheel 7315, hour wheel for sweep second 255, unlocking wheel 7288, alarm setting connection wheel 7294, intermediate setting yoke for alarm 7308, intermediate setting wheel for alarm 7296, unlocking wheel holder 7151, intermediate setting yoke spring for alarm 7312 with its screw 57312.
5. Fit balance wheel, dial and hands, and then place the movement in the case.

REMARKS

1. Adjustment of alarm hammer

To alter the height of stop screw 57498, it is sufficient to loosen set screw 57498/1 and to effect the necessary adjustment. The set screw should then be tightened again.

2. Letting down the mainspring

If the mainspring has to be let down, this can be done in one of two ways:

- a) Remove balance cock, balance wheel and pallet fork, and let the train wheels turn, braking them at the same time.
- b) To let down the spring without dismantling the movement, proceed as follows:
 1. Turn the alarm setting knob until the catches of hour wheel 255 fall into the corresponding holes in unlocking wheel 7288. This releases the alarm hammer by the action of disconnecter 7459.
 2. Wind the watch until stop wheel 7437 clicks. This wheel is just below the ratchet wheel and projects slightly beyond it.
 3. With a pair of tweezers, hold the stop wheel in the unlocked position (same operation as in normal letting down), and release the winding crown.
 4. Pull out the alarm setting crown, at the same time holding the stop wheel to prevent it from turning. The alarm train is then released, and the mainspring runs down by degrees.

IMPORTANT NOTES

On no account let down the mainspring by means of the pinion of intermediate wheel for alarm 7289. When casing has been done, make certain that the winding stem A is free.

STEM FUNCTIONS

Winding stem A

In normal position :

The mainspring of the movement and alarm is wound only when the disk is red.

Pulled out :

Setting the watch hands.



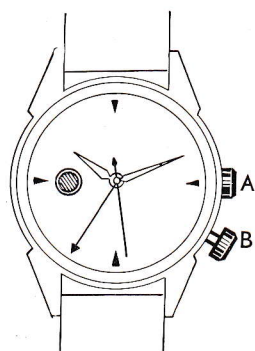
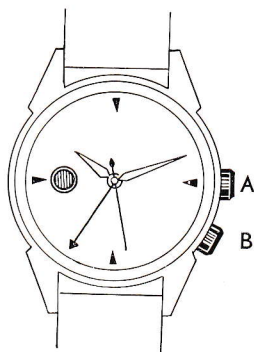
Alarm stem B

In normal position :

The red disk shows that the alarm mechanism is blocked. The alarm hand is moved. The stability of the alarm hand is insured by turning stem B slightly backwards before pulling it out.

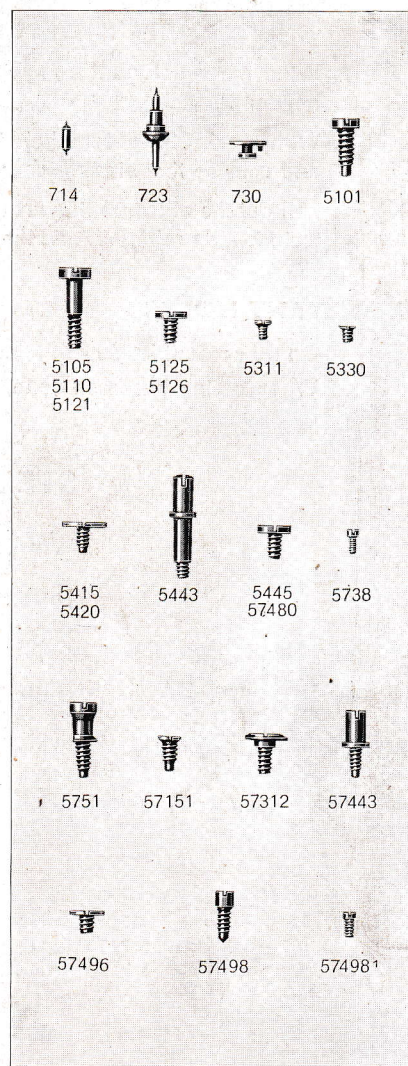
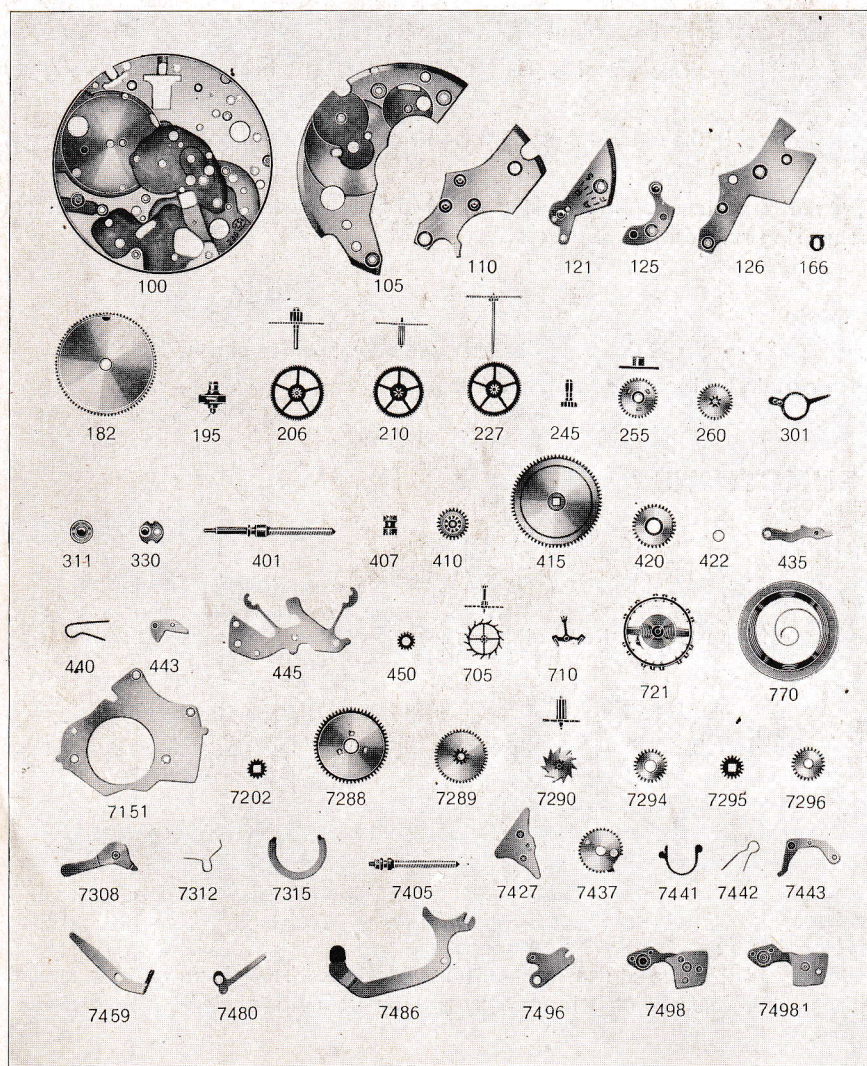
Pulled out :

The green disk shows that the alarm mechanism is released and that at the same time the effect of the stems is cancelled as regards the setting of the watch hands. Push back stem B to stop the alarm mechanism.



Description and numbering of spare parts according to the « Technological Dictionary of Watch Parts », 2nd edition.

100 Plate	445 Setting lever spring (set bridge)	7290 Alarm wheel
106 Barrel bridge	450 Setting wheel	7294 Alarm setting connection wheel
110 Train wheel bridge	705 Escape wheel and pinion with straight pivots	7295 Alarm setting wheel
121 Balance cock for flat hairspring	710 Jewelled pallet fork and staff	7296 Intermediate setting wheel for alarm
125 Pallet cock	714 Pallet staff	7308 Intermediate setting yoke spring for alarm
126 Center wheel cock	721 Balance with flat hairspring, regulated	7312 Intermediate setting yoke spring for alarm
166 Casing clamp	723 Balance staff, pivoted	7315 Friction spring for unlocking wheel
182 Barrel and cover (without arbor)	730 Roller	7405 Alarm setting stem
195 Barrel arbor	770 Mainspring	7427 Intermediate wheel rocker for alarm
206 Center wheel and pinion, drilled, without cannon pinion	5101 Case screw (dog screw)	7437 Alarm stop wheel
210 Third wheel and pinion	5105 Bridge screws	7441 Alarm stop wheel spring
227 Sweep second wheel and pinion	5110 Bridge screws	7442 Rocker spring for intermediate wheel of alarm
245 Cannon pinion with clam notch, for sweep second	5125 Pallet cock screw	7443 Alarm setting lever
255 Hour wheel for sweep second	5126 Center wheel cock screw	7459 Disconnector
260 Minute wheel	5311 Upper end-piece screw, for balance	7480 Disconnector spring
301 Regulator for flat hairspring	5330 Lower end-piece screw, for balance	7486 Alarm bolt yoke
311 Upper cap jewel with end-piece, for balance	5415 Ratchet wheel screw	7496 Alarm bolt
330 Lower cap jewel with end-piece, for balance	5420 Crown wheel screw	7498 Alarm hammer, double function
401 Winding stem	5443 Setting lever screw	7498 ¹ Alarm hammer, single function
407 Clutch wheel	5445 Screw for setting lever spring	57151 Unlocking wheel holder screw
410 Winding pinion	5738 Hairspring stud screw	57312 Screw for intermediate setting yoke spring of alarm
415 Ratchet wheel	5751 Dial key (dial foot screw)	57443 Alarm setting lever screw
420 Crown wheel	7151 Unlocking wheel holder	57480 Screw for disconnector spring
422 Crown wheel ring	7202 Barrel arbor wheel for alarm	57496 Alarm bolt screw
436 Push-pin setting yoke	7288 Unlocking wheel	57498 Stop screw for alarm hammer
440 Yoke spring (set spring)	7289 Intermediate wheel for alarm	57498 ¹ Set screw for alarm hammer
443 Setting lever (detent)		



When ordering parts for a shock-protecting device, make certain to specify its exact type. For further details of the description and numbering of spare parts, see the « Technological Dictionary of Watch Parts », 2nd edition, published by Ebauches S. A.

Order repair parts through your jobber, giving the numbers and designations, thus insuring prompt and efficient deliveries.