



**EMMYWATCH**  
VINTAGE RESTORATIONS

Venus 230 Movement Parts (1)

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

# EBAUCHES S. A.

## NEUCHÂTEL

SWITZERLAND

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FABRIQUE D'ÉBAUCHES  
**VENUS S. A., MOUTIER**

12 1/2'''	<b>230</b>
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



- 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.
- 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, disconnector 7459, disconnector 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.
- 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:

- Remove balance cock, balance wheel and pallet fork, and let the train wheels turn, braking them at the same time.
- To let down the spring without dismantling the movement, proceed as follows:
  - 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 disconnector 7459.
  - Wind the watch until stop wheel 7437 clicks. This wheel is just below the ratchet wheel and projects slightly beyond it.
  - 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.
  - 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.



Red

### 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.

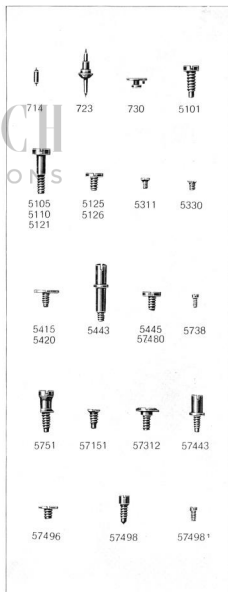
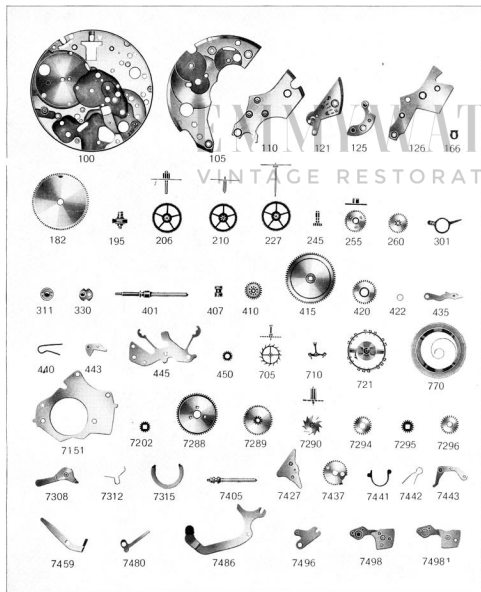


Green



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	7796	Intermediate setting wheel for alarm	
125	Pallet cock	714	Pallet staff	7308	Intermediate setting yoke 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		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	5121			7443	Alarm setting lever
255	Hour wheel for sweep second	5125			7459	Disconnector
260	Minute wheel	5126	Pallet cock screw	7480	Disconnector spring	
301	Regulator for flat hairspring	5311	Center wheel cock screw	7486	Alarm bolt yoke	
311	Upper cap jewel with end-piece, for balance	5330	Upper end-piece screw, for balance	7496	Alarm bolt	
330	Lower cap jewel with end-piece, for balance	5415	Lower end-piece screw, for balance	7498	Alarm hammer, double function	
401	Winding stem	5420	Ratchet wheel screw	7498 <sup>1</sup>	Alarm hammer, single function	
407	Clutch wheel	5443	Crown wheel screw			
410	Winding pinion	5445	Setting lever screw			
415	Ratchet pinion	5445	Screw for setting lever spring	57151	Unlocking wheel holder screw	
420	Crown wheel	5738	Hairspring stud screw	57312	Screw for intermediate setting yoke spring of alarm	
422	Crown wheel ring	5751	Dial key (dial fool screw)	57443	Alarm setting lever screw	
436	Push-pin setting yoke	7151	Unlocking wheel holder	57480	Screw for disconnector spring	
440	Yoke spring (set spring)	7202	Barrel arbor wheel for alarm	57496	Alarm bolt screw	
443	Setting lever (detent)	7288	Unlocking wheel	57498	Stop screw for alarm hammer	
		7289	Intermediate wheel for alarm	57498 <sup>1</sup>	Set screw for alarm hammer	



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.