

CALIBERS

1010-1011-1012-1020-1021-1022

- 1010 27.90 T1 RA SC PC CAL CORR 17 p.
- 1011 27.90 T1 RA SC PC CAL CORR STS BULL. 23 p.
- 1012 27.90 T1 RA SC PC CAL CORR STS 23 p.
- 1020 27.90 T1 RA SC PC CALD CORR CORJ STS 17 p.
- 1021 27.90 T1 RA SC PC CALD CORR CORJ STS BULL 23 p.
- 1022 27.90 T1 RA SC PC CALD CORR CORJ STS 23 p.

| | |
|-------------------|-------------------|
| <p>∅ 27.90 mm</p> | |
| <p>Frequency</p> | <p>28'800 A/h</p> |



1010
1011
1012



1020
1021
1022



| | | | |
|-----------------------------------|------------|---|-----------|
| casing diameter: | 27,90 mm | angle of lift of balance: | 52° |
| height 1010 - 1011 - 1012: | 4,25 mm | running time: | 48 h mini |
| height 1020 - 1021 - 1022: | 4,80 mm | thread diameter of winding stem: | 0,90 mm |
| frequency: | 28 800 A/h | | |

Calibers 1010 to 1022 have been developed on mathematical bases. Indeed, a method of calculation has been perfected in our laboratories whereby maximum data is obtained with regard to the chief features of the various movement parts. Thus, having the most information possible, the constructor is able to carry out his research under better-controlled conditions than previously. Trial series have confirmed the advantages of this method for, with the said caliber, we are securing timekeeping results which have as yet never been achieved by movements of the same category.

Moreover, let us mention that, if this new caliber presents obvious similarities to caliber 1000, it has nevertheless been entirely reconceived and can in no way be compared with it.

| Op. No. | Order of assembling operations | Part No. | Fixing device | Lubrication point | code | Remarks |
|---------|--------------------------------|----------|---------------|-------------------|------|---------|
|---------|--------------------------------|----------|---------------|-------------------|------|---------|

1.0. WHEEL TRAIN

| | | | | | | |
|------|--|------|---------------|--------|------|-----------------------------|
| 1.1. | center second pinion | 7217 | | | | |
| 1.2. | friction spring for center second pinion | 1255 | 1 screw 3442 | funct. | 1.00 | |
| 1.3. | fourth wheel | 1243 | | | | |
| 1.4. | third wheel | 1240 | | | | |
| 1.5. | center wheel | 1216 | | | | |
| 1.6. | escape wheel | 1305 | | | | |
| 1.7. | stop lever | 1123 | | | | under wheel tr. bridge 1003 |
| 1.8. | wheel train bridge | 1003 | 2 screws 2584 | | | |

2.0. MOTOR

| | | | | | | |
|-------|------------------------------------|------|---------------|--------|------|--|
| 2.1. | barrel with arbor | 1200 | | pivots | 1.00 | see 2.1.0. |
| 2.2. | wig-wag pinion | 1151 | | | | see 2.2.0. |
| 2.3. | wig-wag pinion spring | 1153 | 1 screw 2050 | | | recess tangent to barrel in upper side plate |
| 2.4. | barrel bridge | 1001 | 2 screws 2584 | | | |
| 2.5. | setting wheel ring for crown wheel | 1156 | | | | |
| 2.6. | setting wheel for crown | 1151 | 1 screw 2485 | pivot | 2.00 | |
| 2.7. | crown wheel | 1101 | 1 screw 2485 | pivot | 2.00 | fit beforehand on crown wh. core 1102 |
| 2.8. | click spring | 1105 | | | | |
| 2.9. | click | 1104 | | | | |
| 2.10. | ratchet wheel | 1100 | 1 screw 2557 | | | |

3.0. WINDING MECHANISM

| | | | | | | |
|------|---------------------|------|--|--------------|------|----------------------------------|
| 3.1. | winding pinion | 1108 | | | 1.00 | |
| 3.2. | clutch wheel | 1107 | | | 1.00 | |
| 3.3. | winding stem | 1106 | | | 1.00 | |
| 3.4. | setting lever | 1109 | | funct. | 1.00 | |
| 3.5. | yoke | 1111 | | pivot+funct. | 1.00 | |
| 3.6. | date corrector yoke | 1568 | | star+funct. | 1.00 | different for cal. 1010 and 1020 |
| 3.7. | yoke spring | 1112 | | funct. | 1.00 | |

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|---------|--------------------------------|----------|---------------|-------------------|------|---------|
|---------|--------------------------------|----------|---------------|-------------------|------|---------|

| | | | | | | |
|-------|-----------------------------------|------|---------------|--------|------|--|
| 3.8. | yoke spr. for date corr. | 1576 | | funct. | 1.00 | |
| 3.9. | setting lever spring | 1110 | 1 screw 2585 | funct. | 1.00 | |
| 3.10. | pressure spring for setting lever | 1132 | 2 screws 2585 | funct. | 1.00 | |

4.0. ESCAPEMENT

| | | | | | | |
|------|-------------|------|---------------|--|--|--|
| 4.1. | pallet fork | 1316 | | | | |
| 4.2. | pallet cock | 1005 | 2 screws 2441 | | | |

5.0. OILING

| | | | | | | |
|-------|--------------|--|--|---------|------|--|
| 5.1. | center wheel | | | lower | 1.00 | |
| 5.2. | third wheel | | | lower | 1.00 | |
| 5.3. | fourth wheel | | | lower | 1.00 | |
| 5.4. | escape wheel | | | lower | 1.00 | |
| 5.5. | center wheel | | | upper | 1.00 | |
| 5.6. | third wheel | | | upper | 1.00 | |
| 5.7. | fourth wheel | | | upper | 1.00 | |
| 5.8. | escape wheel | | | upper | 1.00 | |
| 5.9. | pallet fork | | | pallets | 2.00 | |
| 5.10. | incabloc | | | lower | 1.02 | |

6.0. ADJUSTMENT

| | | | | | | |
|------|-------------------------------|--|--|-------|------|------------|
| 6.1. | fitting of regulator assembly | | | | | see 6.1.0. |
| 6.2. | oil incabloc | | | upper | 1.02 | |
| 6.3. | fit stud to balance-cock | | | | | |
| 6.4. | fit balance cock on plate | | | | | |
| 6.5. | hairspring setting | | | | | |

7.0. WHEEL TRAIN AND TIME DISPLAY MECHANISM

see 7.0.0.

8.0. AUTOMATIC UNIT

see 8.0.0.

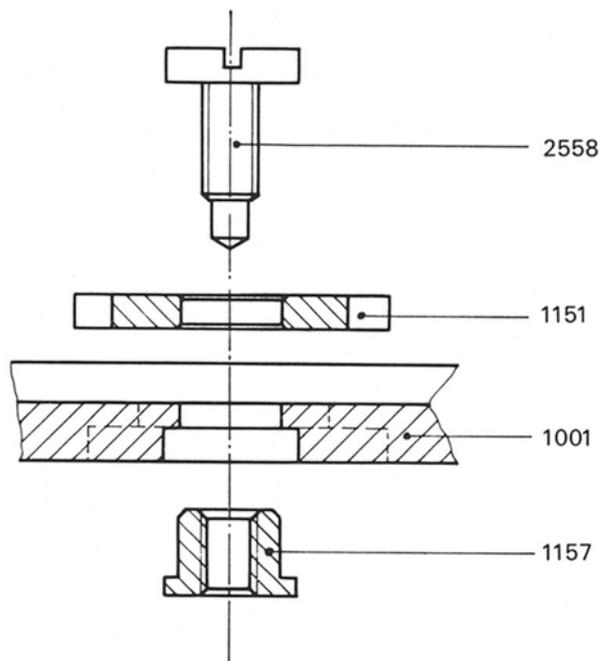
2.1.0. Barrel

The spring in neotal is self-lubricated.

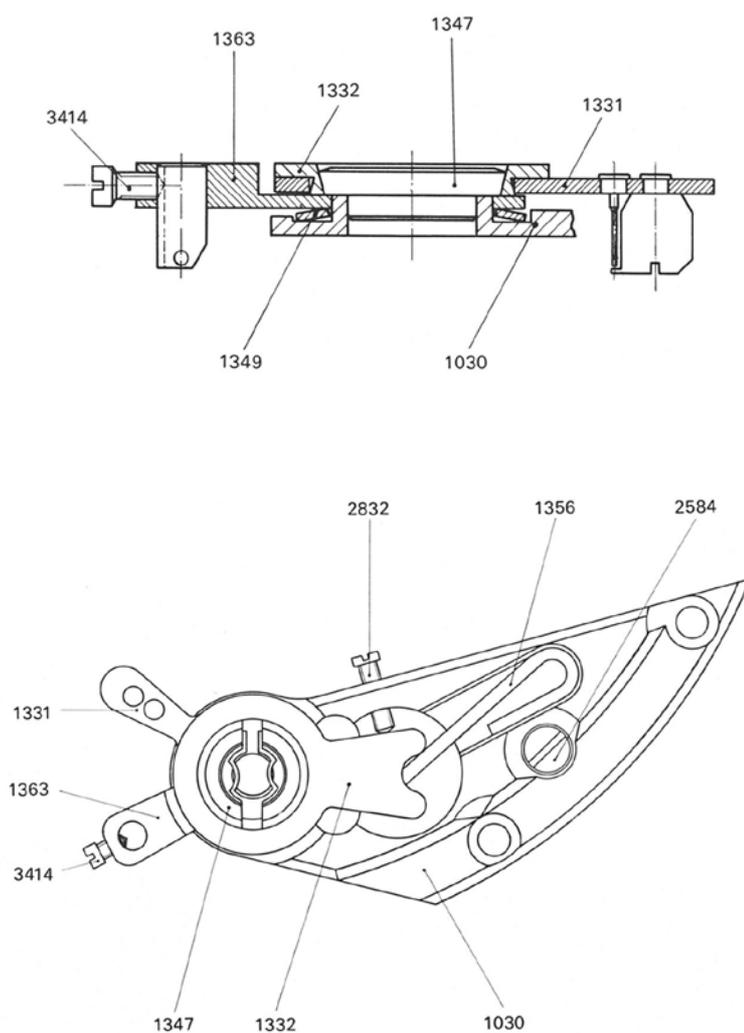
Oil (1.00) the bearings of the arbor (drum and cover pivots).

2.2.0. Wig-wag pinion (1151)

This pinion, located on the barrel bridge (1001), can move about in the oblong hole which serves to guide it. It is fixed by means of a screw (2558) and a lock-nut in the shape of a core (1157). The spring of the wig-wag pinion (1153), screwed on the plate (1000), acts on the pivot of the screw (2558) which, for this purpose, is longer than the core of the wig-wag pinion (1157).



6.1.0. Fitting of the regulator assembly

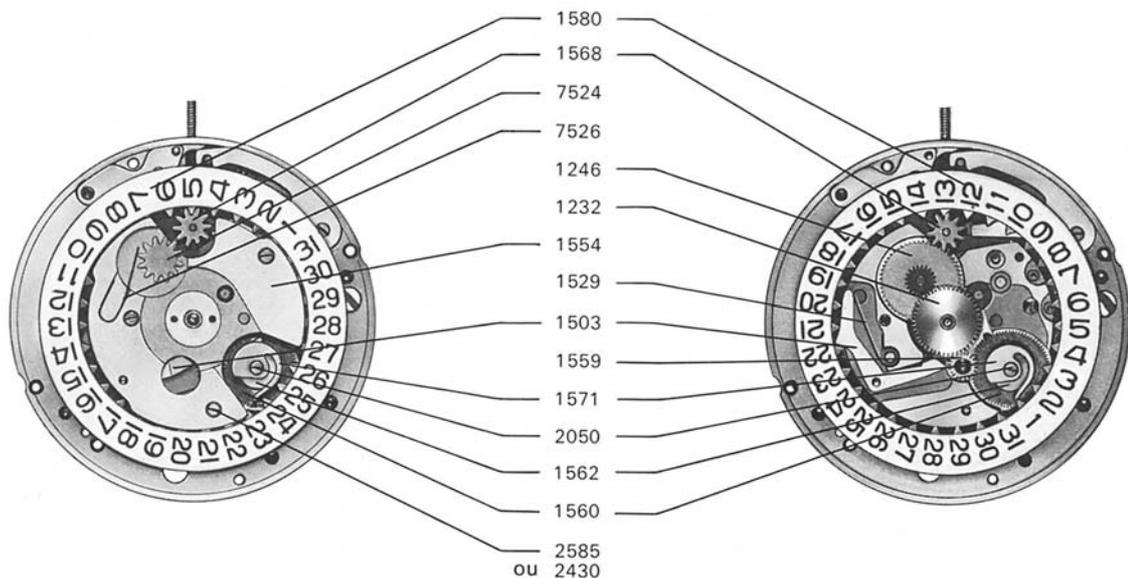


1030 balance cock
 2584 screw for balance cock
 1363 stud-holder
 3414 screw for stud
 1331 regulator (circle)

1332 regulator pointer
 1349 friction gasket for stud-holder
 1347 incabloc upper
 1356 spring for regulator-adjuster
 2832 screw for regulator-adjuster

7. 0. 0. Wheel train and time display mechanism

| Op. No. | Order of assembling operations | Part No. | Fixing device | Lubrication | | Remarks |
|---------|--------------------------------------|----------|--------------------------------|-------------|------|--|
| | | | | point | code | |
| 7.0.1. | cannon pinion of third wheel | 1230 | snap-on | | | support upper side of pivot |
| 7.0.2. | center cannon pinion | 1219 | | tube | 1.00 | different for cal. 1010 and 1020 |
| 7.0.3. | minute wheel | 1246 | | post | 1.00 | |
| 7.0.4. | date indicator driving wheel | 1560 | | | | |
| 7.0.5. | cam for date indicator driving wheel | 1562 | | | | post in slit of wheel |
| 7.0.6. | day star driving wheel | 1571 | 1 screw 2050 | | | only in cal. 1020 post in hole of cam |
| 7.0.7. | double date setting wheel | 1559 | | post | 1.00 | |
| 7.0.8. | hour wheel | 1232 | | | | |
| 7.0.9. | date jumper (and days - cal. 1020) | 1503 | | | | different for cal. 1010 and 1020 |
| 7.0.10. | date jumper spring | 1529 | | funct. | 1.00 | |
| 7.0.11. | date indicator | 1580 | | | | |
| 7.0.12. | date indicator guard | 1554 | 3 screws 2585(1010) 2430(1020) | | | different for cal. 1010 and 1020 |
| 7.0.13. | day corrector | 7524 | | pivot | 1.00 | only in cal. 1020 |
| 7.0.14. | day corrector spring | 7526 | | | | only in cal. 1020 |
| 7.0.15. | day star and dial-disc | 1516 | | | | only in cal. 1020 |
| 7.0.16. | day star guard | 1555 | 2 screws 2586 | | | only in cal. 1020 |



8.0.0. Automatic unit

| Op. No. | Order of assembling operations | Part No. | Fixing device | Lubrication | | Remarks |
|---------|--|----------|---------------|-------------|------|---|
| | | | | point | code | |
| 8.0.1. | driving gear for ratchet wheel | 1437 | | upper lower | 1.00 | Mounted on the upper bridge for automatic device 1031 |
| 8.0.2. | winding gear | 1464 | | upper lower | 1.00 | |
| 8.0.3. | large connecting pinion for winding wheel | 1453 | | upper lower | 1.00 | |
| 8.0.4. | small connecting pinion for winding wheel | 1454 | | upper lower | 1,00 | |
| 8.0.5. | lower bridge for automatic device | 1033 | 2 screws 2584 | | | |
| 8.0.6. | unit on movement | | 2 screws 2584 | | | |
| 8.0.7. | intermediate connecting pinion for winding wheel | 1477 | | | | |
| 8.0.8. | rotor | 1026 | | pivot | 1.00 | |
| 8.0.9. | banking ring for rotor | 1478 | 1 scr. 2578 | | | |

