

# Quartz Movements

## Multifunctions

### RONDA xtratech

Caliber 505.24H – 10½"



## Product Specifications

Analog quartz movement

|                              |                          |
|------------------------------|--------------------------|
| Line                         | xtratech                 |
| Caliber                      | 505.24H                  |
| Size                         | 10½"                     |
| Version Swiss Made           | 1 Jewels / nickel plated |
| Version Swiss Parts          | 1 Jewels / nickel plated |
| Standard battery life        | 45 months                |
| Standard hand fitting height | 1                        |

## Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem:  
Reduction of consumption approximately 70%
- Interchangeability: All versions 10½" with same  
movement height 3.00 mm and stem height 1.50 mm
- Very powerful stepping motor
- GMT function with quick change

## Functions

- Multifunction
- 24 hours hand - GMT
- Date
- 3 hands

# Quartz Movements Multifunctions RONDA xtratech

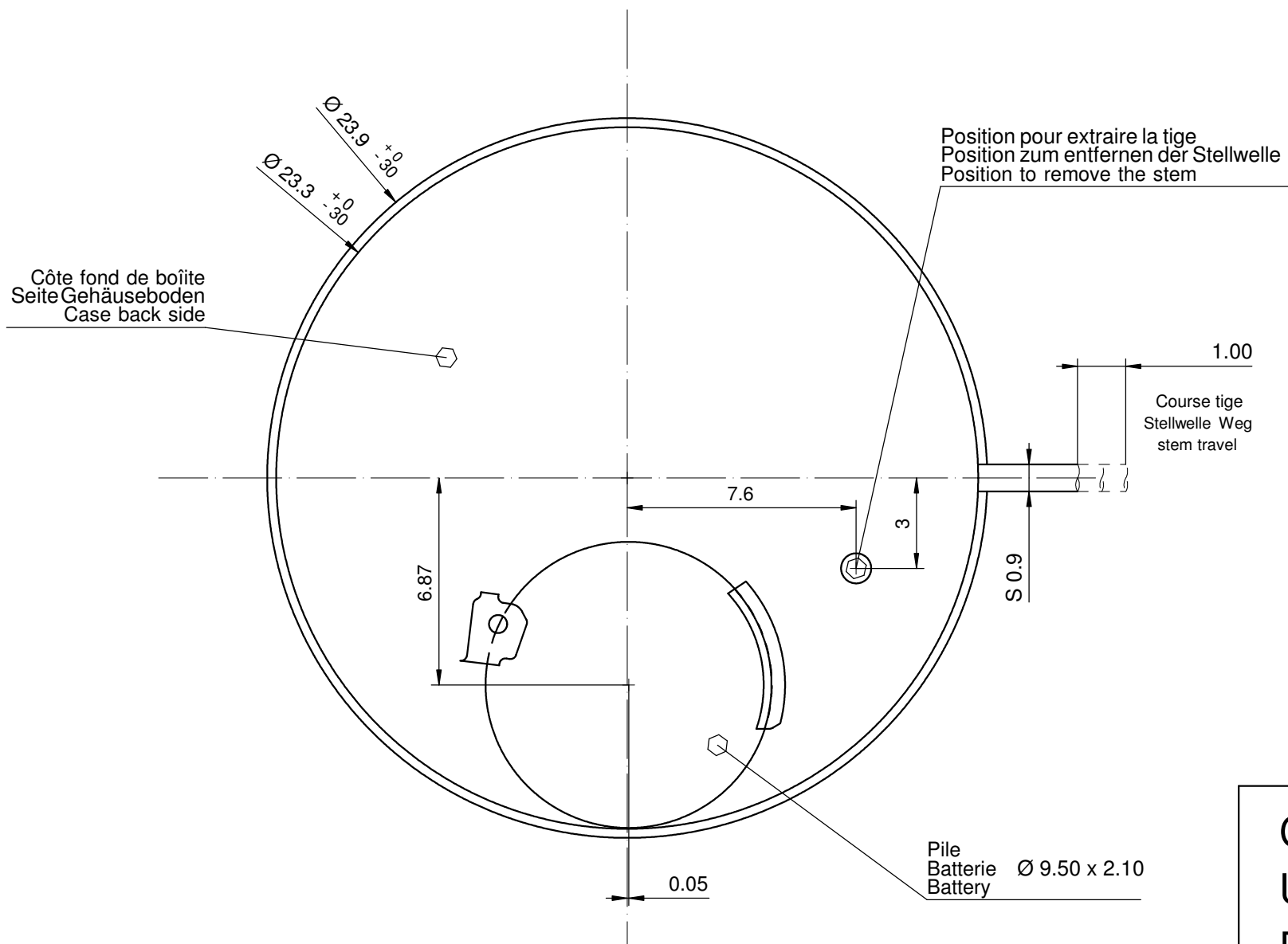
## Caliber 505.24H – 10½"

### Technical Specifications

|                                |                    |
|--------------------------------|--------------------|
| Diameter Total                 | 23.90 mm           |
| Case fitting                   | 23.30 mm           |
| Movement height                | 3.00 mm            |
| Height over standard battery   | 3.25 mm            |
| Movement rest                  | 0.80 mm            |
| Height over stem               | 1.50 mm            |
| Length of stem travel          | 1.00 mm            |
| Stem thread                    | 0.90 mm            |
| Useful torque second – typical | 11 µNm             |
| Useful torque minute – typical | 550 µNm            |
| Operating temperature          | 0 - 50 °C          |
| Instantaneous rate             | -10/ +20 sec/month |
| Resistance to magnetic fields  | 18.8 Oe            |
| Resistance against shock       | NIHS 91-10         |

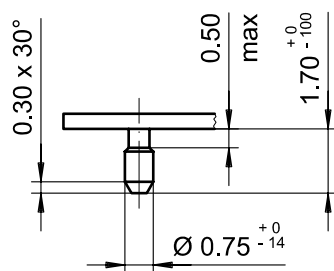
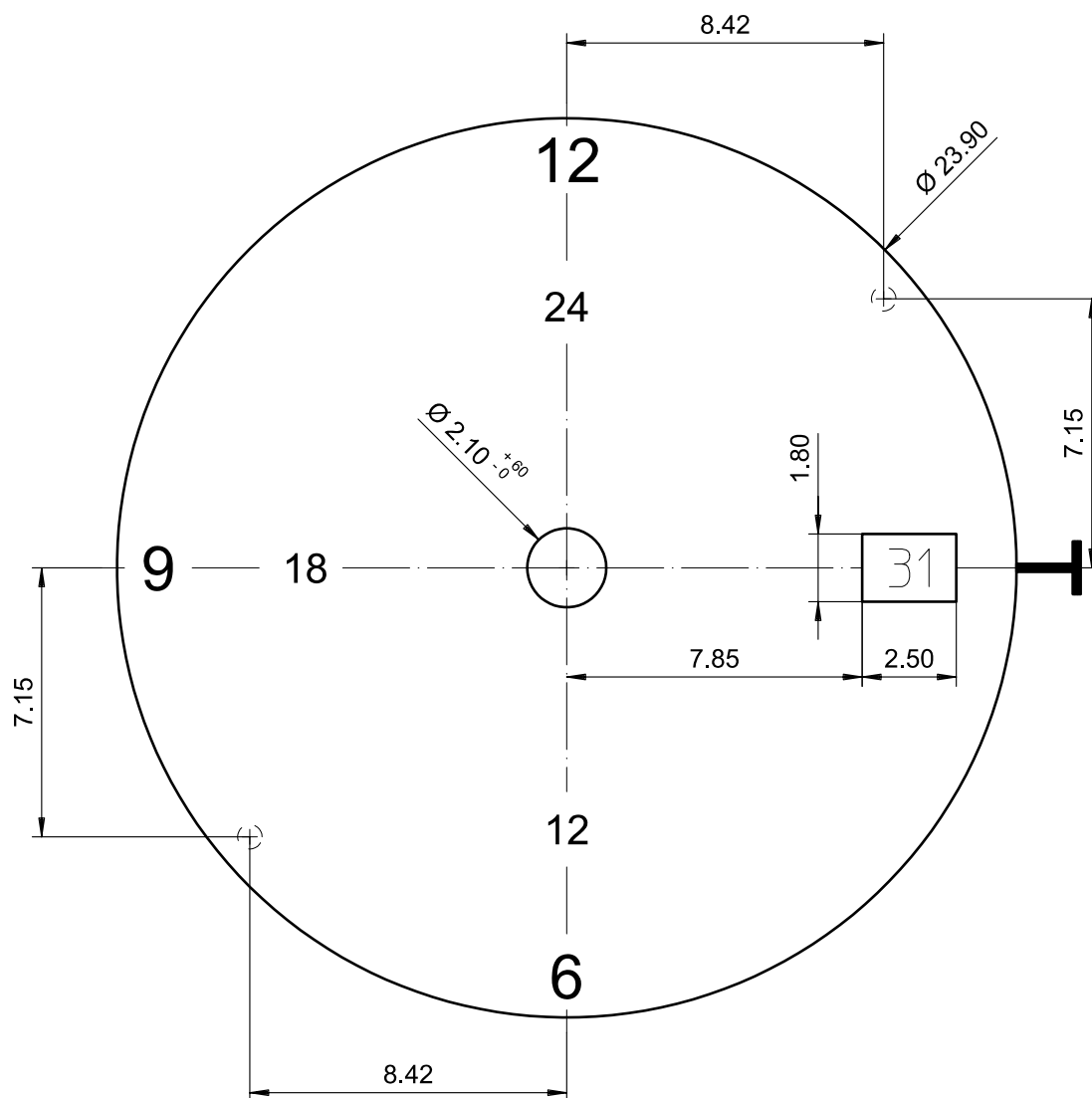
### Battery Specifications

|                               |   |
|-------------------------------|---|
| Standard battery              | No. 371                                 |
| Standard battery life         | 45 months                               |
| Battery voltage               | 1.5 V                                   |
| Current consumption – typical | 1.28 µA (Date Mechanism<br>not in Gear) |
| Current consumption – maximum | 1.85 µA (Date Mechanism<br>not in Gear) |



Le cadran doit être maintenu en hauteur par la boîte.  
Das Zifferblatt muss in der Höhe vom Gehäuse festgehalten werden.  
The dial must be held in the height by the case.

|   |         |  |                         |    |
|---|---------|--|-------------------------|----|
| <div> <div>Cage</div> <div>Uhrwerkgestell</div> <div>Frame</div> </div> <div>10½"</div> |         | Issued   | 10 Mrz 1999             | gd |
|   |         | Modified   | 23 Jun 2011<br>ÄÄ 11169 | dh |
|   |         | Released   | YES                     |    |
|   |         | Tolerance  | +/- 20 µm               |    |
|   |         | Scale  | 10 : 1 (5 : 1) (A3H)    |    |
| RONDA   | 505.24H | Sous réserve de modifications<br>Aenderungenvorbehalten<br>Modificationsreserved |                         |    |
|   |         | No.  | 5000.287                | 05 |



Epaisseur du cadran selon hauteur de l'aiguillage  
 Zifferblattdicke gemäss Zeigerwerkhöhen  
 Dial thickness according to hand fitting heights

|         |       |
|---------|-------|
| Tige    | Date  |
| Stellw. | Datum |
| Stem    | Date  |
| 3H      | 3H    |
|         |       |

Cadran  
 Zifferblatt  
 Dial

10 1/2"

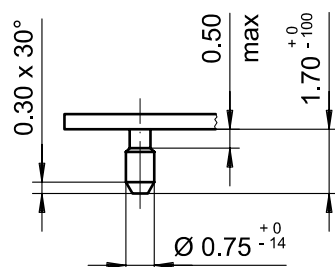
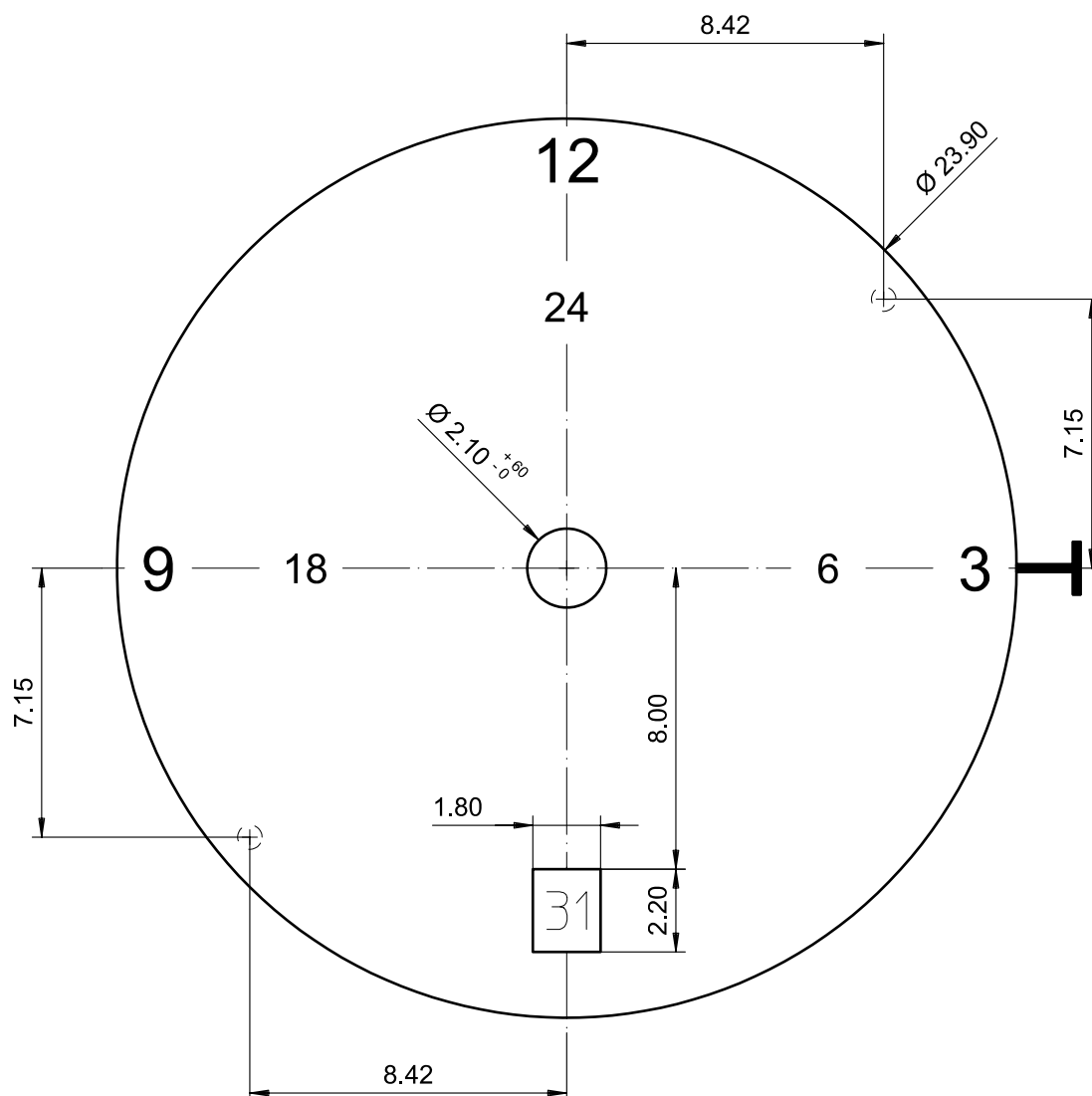
|           |                        |    |
|-----------|------------------------|----|
| Issued    | 14 Dez 2006            | cw |
| Modified  | 15.Dez.2006<br>ÄA ---- | cm |
| Released  | YES                    |    |
| Tolerance | +/- 20 µm              |    |
| Scale     | 5 : 1 (A4V)            |    |

RONDA

505.24H

Sous réserve de modifications  
 Änderungen vorbehalten  
 Modifications reserved

No. 5010.495 02



Epaisseur du cadran selon hauteur de l'aiguillage  
Zifferblattdicke gemäss Zeigerwerkhöhen  
Dial thickness according to hand fitting heights

|         |       |
|---------|-------|
| Tige    | Date  |
| Stellw. | Datum |
| Stem    | Date  |
| 3H      | 6H    |
|         |       |

Cadran  
Zifferblatt  
Dial

10 1/2"

|           |                        |    |
|-----------|------------------------|----|
| Issued    | 14 Dez 2006            | cw |
| Modified  | 15.Dez.2006<br>ÄA ---- | cm |
| Released  | YES                    |    |
| Tolerance | +/- 20 µm              |    |
| Scale     | 5 : 1 (A4V)            |    |

RONDA

505.24H

Sous réserve de modifications  
Änderungen vorbehalten  
Modifications reserved

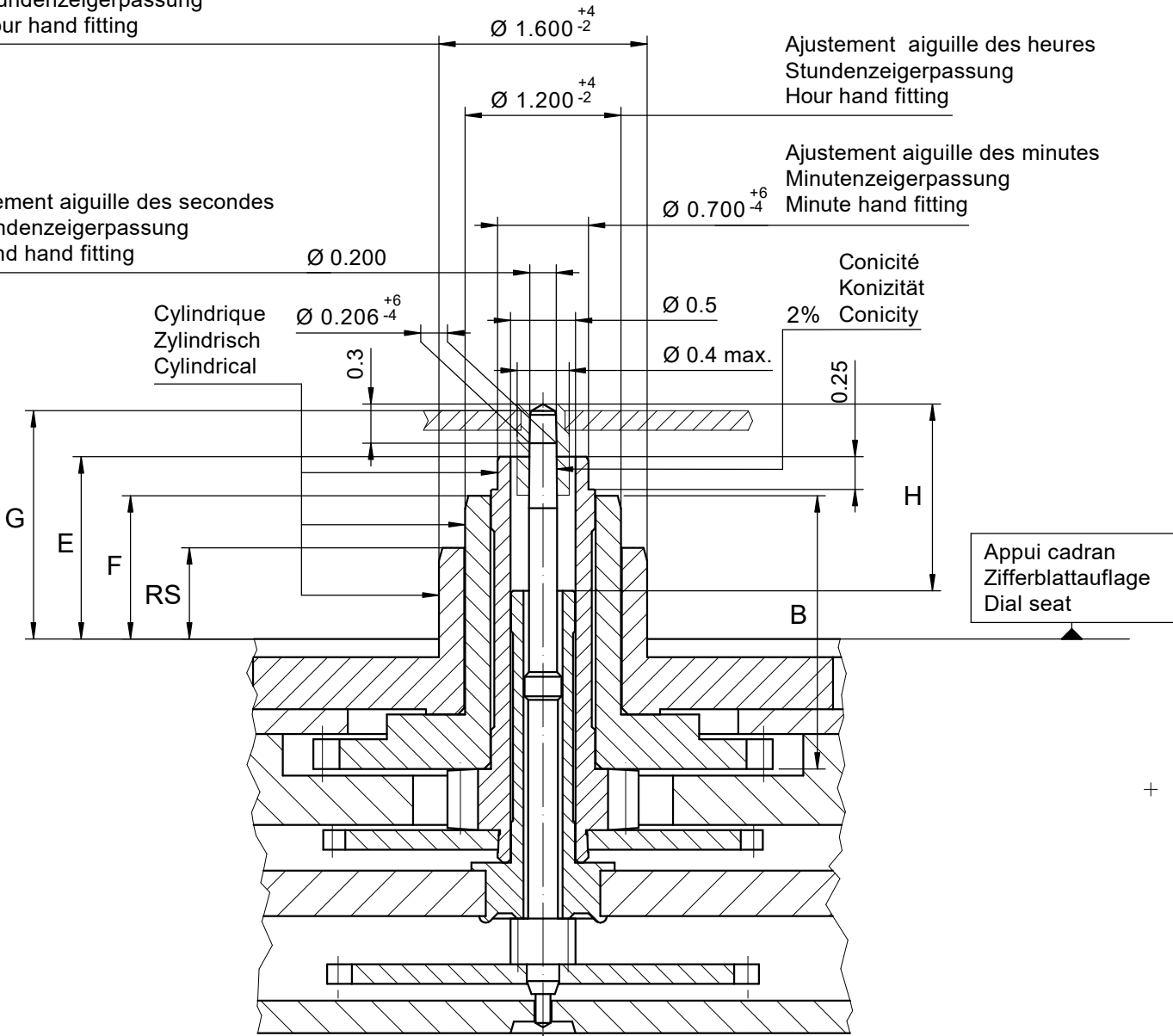
No. 5010.504 01

Ajustement aiguille des 24 heures  
24 Stundenzeigerpassung  
24 Hour hand fitting

Ajustement aiguille des secondes  
Sekundenzeigerpassung  
Second hand fitting

Ajustement aiguille des heures  
Stundenzeigerpassung  
Hour hand fitting

Ajustement aiguille des minutes  
Minutenzeigerpassung  
Minute hand fitting



Heures 24H / Heures / minutes / secondes  
Stunden 24H / Stunden / Minuten / Sekunden  
Hours 24H / Hours / minutes / seconds

|                  |      | Aig. des secondes<br>Sekundenzeiger<br>Second hand | Aig. des minutes<br>Minutenzeiger<br>Minute hand | Aig. des heures<br>Stundenzeiger<br>Hour hand | Aig. des heures 24H<br>Stundenzeiger 24H<br>Hour hand 24H | Lors de la pose d'aiguilles, le mouvement doit être soutenu.<br>Beim Zeigersetzen muss das Werk abgestützt werden.<br>The movement needs to be supported for hand setting. |
|------------------|------|--|--|---|---|--|
| mg               | max. | 10   | 30   | 30  | 30  | Masse / Masse / Weight *   |
| µNm              | max. | 0.08   | 0.70   | 0.70  | 1.00  | Balourd / Unwucht / Unbalance *  |
| gmm <sup>2</sup> | max. | 0.4  | -  | -   | -   | Inertie / Massenträgheit / Inertia *   |
| N                | max. | 30   | 40   | 40  | 40  | Force de chassage / Aufpresskraft / Force  |

| Aiguillage no<br>Zeigerwerkhöhe Nr.<br>Hand fitting height No | Dépassement<br>Höhe über Zifferblattauflege<br>Height over dial seat |  |   |   | Longueur<br>Länge<br>Length |   | Epaisseur max. (peinture comprise)<br>Max. Dicke (inkl. Farbe)<br>Max. thickness (paint included) |   |  |  |                              |
|---|--|--|---|---|-----------------------------|---|---|---|--|--|------------------------------|
|   | Pignon des secondes<br>Sekundentrieb<br>Second pinion                | Chaussée<br>Minutenrohr<br>Cannon-pinion | Roue des heures<br>Stundenrad<br>Hour wheel | Roue des heures 24H<br>Stundenrad 24H<br>Hour wheel 24H |                             | Roue des heures<br>Stundenrad<br>Hour wheel | Cadran<br>Zifferblatt<br>Dial   |   |  |  | Aiguilles<br>Zeiger<br>Hands |
|   |  |  |   |   |                             |   | Sous l'aiguille des secondes<br>Unter Sekundenzeiger<br>Under second hand                         | Sous l'aiguille des minutes<br>Unter Minutenzeiger<br>Under minute hand | Sous l'aiguille des heures<br>Unter Stundenzeiger<br>Under hour hand | Sous l'aiguille des heures 24H<br>Unter Stundenzeiger 24H<br>Under hour hand 24H |                              |
|   |  |  |   |   |                             |   |   |   |  |  |                              |
| 1   | 1.80   | 1.40                                     | 1.10  | 0.70  | 1.44                        | 2.10  | 1.30  | 1.00  | 0.70   | 0.40   | 0.15                         |
| 2   | 2.15   | 1.75                                     | 1.45  | 1.05  | 1.79                        | 2.45  | 1.65  | 1.35  | 1.05   | 0.75   | 0.15                         |

Aiguillages  
Zeigerwerkhöhen 10½", 11½"  
Hand fitting heights

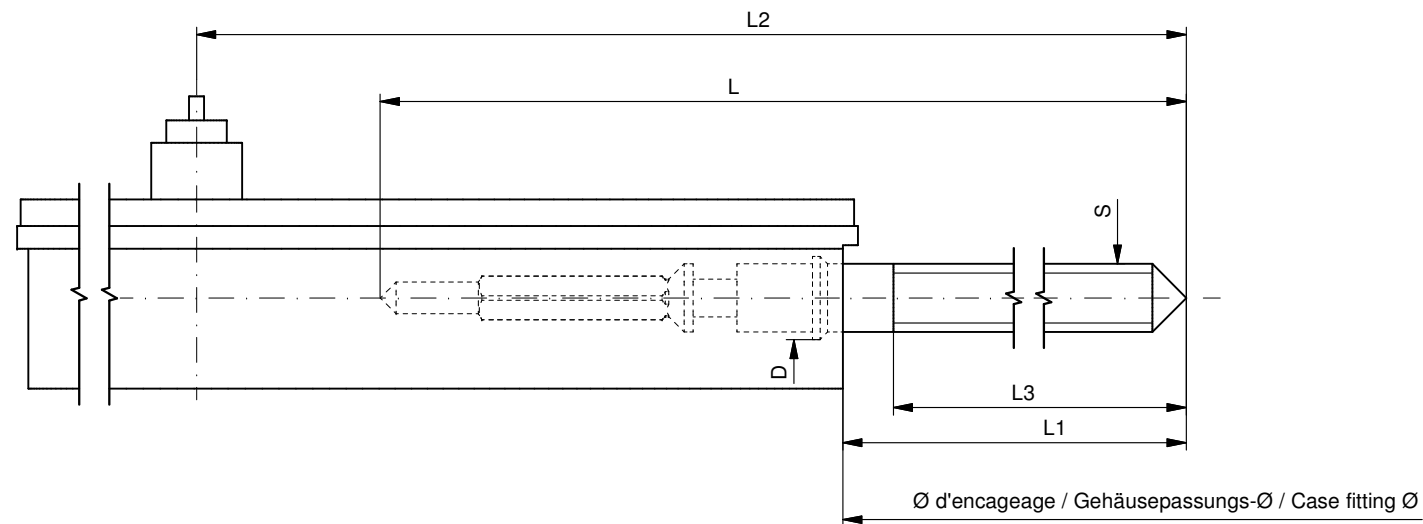
RONDA 505.24H, 515.24H

|   |            |             |
|---|------------|-------------|
| Issued  | 10.03.1999 | gd          |
| Modified  | 27.06.2022 | nk5222      |
| Released  | YES        |             |
| Mod. No.  | 45427      |             |
| Tolerance   | µm         |             |
| Scale   | 20 : 1     | Page 1/1 A3 |
| Sous réserve de modifications<br>Änderungen vorbehalten<br>Modifications reserved |            |             |
| No.   | 3316.061   | 08          |

\* En cas de données différentes, veuillez contacter le service après-vente

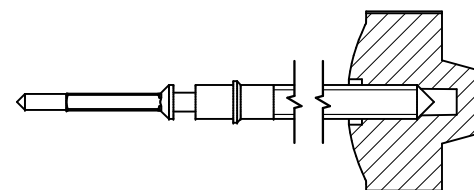
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

\* In case of different values, please contact the customer service



Tige de travail (intégrée dans le mouvement)  
Arbeitsstellwelle (im Werk eingebaut)  
Working stem (implemented in the movement)

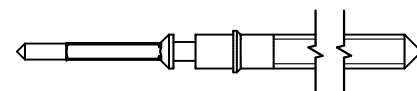
| No. d'article<br>Artikelnummer<br>Part number | L     | L1    | L2    | L3    | S    | D    |
|---|-------|-------|-------|-------|------|------|
| 3000.164.CO                                   | 20.50 | 11.09 | 22.74 | 11.83 | 0.90 | 1.05 |



|  |                        |
|--|------------------------|
| Couleur de la couronne<br>Kronenfarbe<br>Crown color | brun<br>braun<br>brown |
| Code   | UN 8052                |

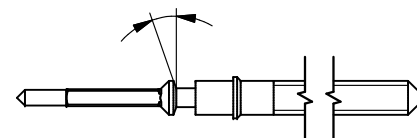
Tige (normale) / Stellwelle (normal) / Stem (normal)

| No. d'article<br>Artikelnummer<br>Part number | L     | L1    | L2    | L3    | S    | D    |
|---|-------|-------|-------|-------|------|------|
| 3000.164                                      | 20.50 | 11.09 | 22.74 | 11.83 | 0.90 | 1.05 |
| 3000.171                                      | 32.50 | 24.34 | 34.74 | 23.83 | 0.90 | 1.05 |



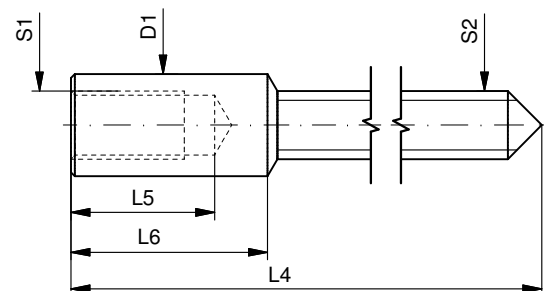
Tige (à arracher)  
Stellwelle (Ausreissversion)  
Stem (extractable version)

| No. d'article<br>Artikelnummer<br>Part number | L     | L1    | L2    | L3    | S    | D    |
|---|-------|-------|-------|-------|------|------|
| 3000.163                                      | 20.50 | 12.34 | 22.74 | 11.83 | 0.90 | 1.05 |
| 3000.196                                      | 32.50 | 24.34 | 34.74 | 23.83 | 0.90 | 1.05 |

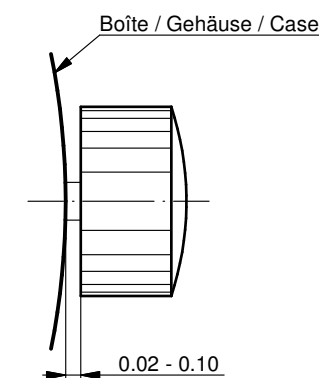


Rallonge de tige / Stellwelle Verlängerung / Stem extension

| No. d'article<br>Artikelnummer<br>Part number | L4    | L5<br>(min) | L6   | S1   | S2   | D1   |
|---|-------|-------------|------|------|------|------|
| 3000.040                                      | 12.00 | 1.90        | 2.60 | 0.90 | 0.90 | 1.35 |



Couronne normale  
Normale Krone  
Normal crown



Couronne vissée  
Geschraubte Krone  
Screwed crown

|  |      |
|--|------|
| Force ⇐ min.<br>Kraft ⇐ min.<br>Force ⇐ min. | 10 N |
| Force ⇐ max.<br>Kraft ⇐ max.<br>Force ⇐ max. | 15 N |

Tige (dimensions / forces)  
Stellwelle (Dimensionen / Kräfte)  
Stem (dimensions / forces)

RONDA

502, 503, 503S, 505, 505S,  
505.24H, 505.24D, 507, 509

|   |                         |        |
|---|-------------------------|--------|
| Issued  | 05 Jul 2012             | ds5212 |
| Modified  | 17 Mär 2017<br>ÄA 34582 | mg5224 |
| Released  | YES                     |        |
| Tolerance   | ---                     |        |
| Scale   | 10:1 (A3)               |        |
| Sous réserve de modifications<br>Änderungen vorbehalten<br>Modifications reserved |                         |        |
| No.   | 5030.001                | 01     |

RONDA powertech

– 509/519

RONDA xtratech

- 505.24D/515.24D
- 505.24H/515.24H
- 507/517

You have decided to buy a watch, which was assembled by a watchmaker using a Ronda movement. Please note that no watches are produced or distributed under the Ronda brand.

In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.



Cal. 505.24D / 515.24D

Cal. 505.24H / 515.24H

Pos. I Position of rest (watch running)

Pos. II Quick-change correction of the date

*The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.*

- Pull the crown out to position II (watch still running).
- Turn the crown clockwise until the required date appears.
- Push the crown back into position I.

**Quick-change correction for 24-hour display**

- Pull the crown out to position II (watch still running).
- Turn the crown anticlockwise until the desired time appears.
- Push the crown back into position I.

Pos. III Setting the time

- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.



Cal. 507 / 517

Pos. I Position of rest (watch running)

Pos. II Quick-change correction of the date

*The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.*

- Pull the crown out to position II (watch still running).
- Turn the crown until the required date appears.
- Push the crown back into position I.

**Quick-change correction for day of the week**

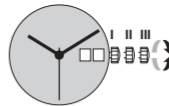
*The blocking time for the day of the week quick-change correction is from approx. 10 pm and midnight.*

- The second language always first appears around 24.00hrs for about 2 hours, until the display changes to the required language.
- Pull the crown out to position II (watch still running).
- Turn crown anticlockwise until the desired day of the week appears in the required language.
- Push the crown back into position.

Pos. III Setting the time

- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.

Cal. 507 / 517



Cal. 509 / 519

Pos. I Position of rest (watch running)

Pos. II Quick-change correction of the date

*The date display comprises a 2-disc system. For construction reasons, on the first day of a new month, the date must be set on 01 via the quick-change method passing through 31–39.*

*The date can also be changed during the day-changing phase between approx. 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.*

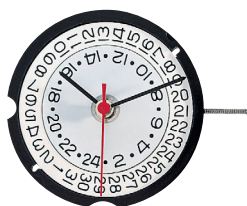
- Pull the crown out to position II (watch still running).
- Turn the crown clockwise until the required date appears.
- Push the crown back into position I.

Pos. III Setting the time

- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.

**Applies to all calibers:**  
Battery type: 371/SR920SW (Ø 9.5 mm x 2.05 mm)  
Accuracy: +20/-10 seconds per month

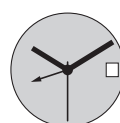




10 1/2'''



505.24D



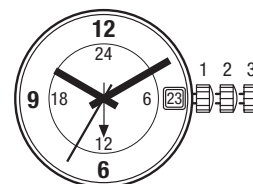
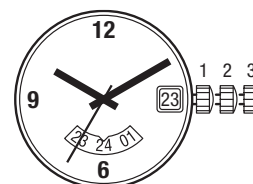
505.24H

## Funktionen

## Fonctions

## Functions

| Kaliber<br>Calibre<br>Caliber | Stellwellenpos.<br>Pos. de tige<br>Stem position | Funktionen<br>Fonctions<br>Functions  |
|-------------------------------|--|---|
| 505.24D<br>505.24H            | 1  | Normale Position / Position normale / Running position  |
|                               | 2  | Datumkorrektur / 24-Stundenkorrektur<br>Correction de la date / Correction 24 heures<br>Date correction / 24 hours correction   |
|                               | 3  | Zeiger stellen, Sekunden-Stopp mit Unterbruch der Motorimpulse<br>Mise à l'heure, stop-seconde avec interruption des impulsions moteur<br>Hand setting, stop-second with interruption of motor pulses |



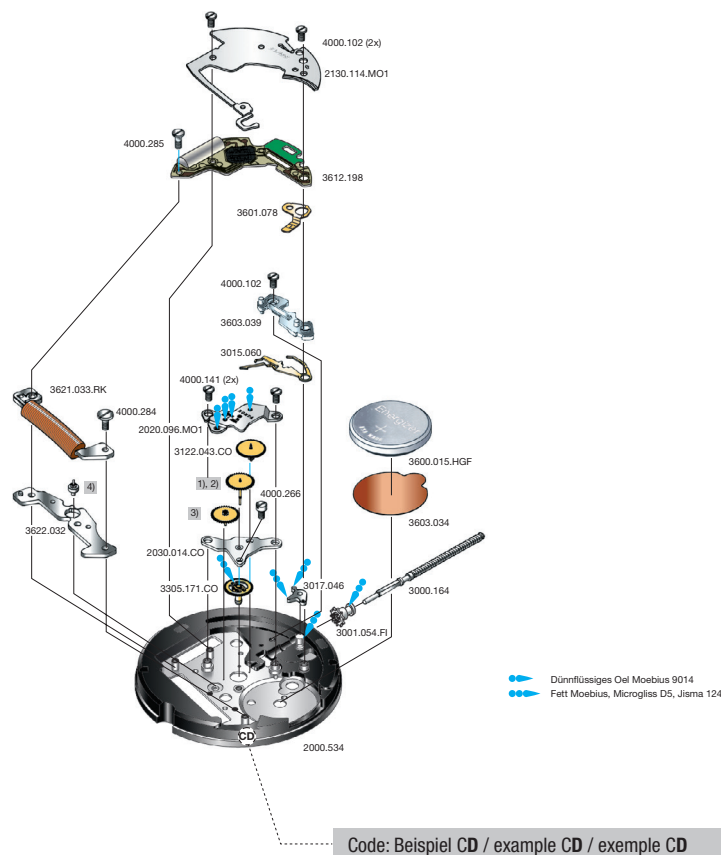
## Batterie

## Pile

## Battery

| Kaliber<br>Calibre<br>Caliber | Batterie<br>Pile<br>Battery | Spannung<br>Voltage<br>Tension | Artikelnummer RONDA<br>Numero d'article RONDA<br>Part number RONDA |
|-------------------------------|-----------------------------|--------------------------------|--|
| 505.24D<br>505.24H            | 371 / SR920SW               | 1.55 V                         | 3600.015.HGF   |

10 1/2''' 505.24H, 505.24D



| Cal. 505.24D | Werkseite / Côté mouvement / Movement side |                |                    |
|--------------|--|----------------|--------------------|
| Plan No.     | Bestandteile                               | Fournitures    | Spare Parts        |
| 2000.534     | Werkplatte                                 | Platine        | Main plate         |
| 2020.096.MO1 | Räderwerkbrücke                            | Pont rouage    | Train w. bridge    |
| 2030.014.CO  | Zentrumbrücke                              | Pont centre    | Centre bridge      |
| 2130.114.MO1 | Modul-Abdeckp.                             | Couvre module  | Module cover pl.   |
| 3000.164     | Stellwelle                                 | Tige           | Stem               |
| 3001.054.FI  | Kupplungstrieb                             | Pignon coulant | Sliding pinion     |
| 3015.060     | Kuppl.-triebhebel                          | Bascule        | Yoke               |
| 3017.046     | Winkelhebel                                | Tirette        | Setting lever      |
| 3122.043.CO  | Kleinbodenrad                              | Roue moyenne   | Third wheel        |
| 1)           | Sekundenrad                                | Roue secondes  | Second-wheel       |
| 3)           | Zwischenrad                                | Roue interméd. | Intermed. wheel    |
| 3305.171.CO  | Minutenrohr                                | Chaussée       | Cannon pinion      |
| 3600.015.HGF | Batterie                                   | Pile           | Battery            |
| 3601.078     | Batterie-Kontakt                           | Bride contact  | Battery contact    |
| 3603.034     | Batterie-Isolation                         | Isolateur pile | Battery insulation |
| 3603.039     | Deckplatte/ Ste.                           | Couvre mécan.  | Setting lev. cover |
| 3612.198     | Modul                                      | Module         | Module             |
| 3621.033.RK  | Spule                                      | Bobine         | Coil               |
| 3622.032     | Stator                                     | Stator         | Stator             |
| 4)           | Rotor                                      | Rotor          | Rotor              |
| 4000.102     | Schraube                                   | Vis            | Screw              |
| 4000.141     | Schraube                                   | Vis            | Screw              |
| 4000.266     | Schraube                                   | Vis            | Screw              |
| 4000.284     | Schraube                                   | Vis            | Screw              |
| 4000.285     | Schraube                                   | Vis            | Screw              |

#### Abweichungen / Divergences / Deviations

| Cal. 505.24H | Werkseite / Côté mouvement / Movement side |               |               |
|--------------|--|---------------|---------------|
| Plan No.     | Bestandteile                               | Fournitures   | Spare Parts   |
| A)           | Sekundenrad                                | Roue secondes | Second-wheel  |
| 3305.180.CO  | Minutenrohr                                | Chaussée      | Cannon pinion |

| Cal. 505.24D |   |   |
|--------------|---|---|
|              | Bis Dezember 2015<br>Jusqu' en Décembre 2015<br>Untill December 2015                              | Ab Januar 2016<br>A partir de Janvier 2016<br>From January 2016   |
| Code         | 2. Buchstabe ... <b>D</b><br>Second letter ... <b>D</b><br>2 <sup>ème</sup> chiffre: ... <b>D</b> | 2. Buchstabe: ab <b>E</b><br>Second letter: from <b>E</b><br>2 <sup>ème</sup> chiffre: à partir de <b>E</b> |
| 1)           | 3136.090.CO   | 3136.194.CO   |
| 3)           | 3147.019.CO   | 3147.092.CO   |
| 4)           | 3715.089.RK   | 3715.144.RK   |

Die obigen 3 Teile bilden jeweils eine Gruppe. Deshalb sind die 3 Teile jeder Gruppe nicht einzeln gegeneinander austauschbar.

Les 3 fournitures ci-dessous forment un groupe individuel. C'est pourquoi les 3 fournitures de chaque groupe ne sont pas interchangeables.

The 3 parts mentioned above are forming an individual group. Therefore the 3 parts of each group are not interchangeable.

| Cal. 505.24H |   |   |
|--------------|---|---|
|              | Bis Dezember 2015<br>Jusqu' en Décembre 2015<br>Untill December 2015                              | Ab Januar 2016<br>A partir de Janvier 2016<br>From January 2016   |
| Code         | 2. Buchstabe ... <b>D</b><br>Second letter ... <b>D</b><br>2 <sup>ème</sup> chiffre: ... <b>D</b> | 2. Buchstabe: ab <b>E</b><br>Second letter: from <b>E</b><br>2 <sup>ème</sup> chiffre: à partir de <b>E</b> |
| 2)           | 3136.095.CO   | 3136.218.CO   |
| 3)           | 3147.019.CO   | 3147.092.CO   |
| 4)           | 3715.089.RK   | 3715.144.RK   |

Die obigen 3 Teile bilden jeweils eine Gruppe. Deshalb sind die 3 Teile jeder Gruppe nicht einzeln gegeneinander austauschbar.

Les 3 fournitures ci-dessous forment un groupe individuel. C'est pourquoi les 3 fournitures de chaque groupe ne sont pas interchangeables.

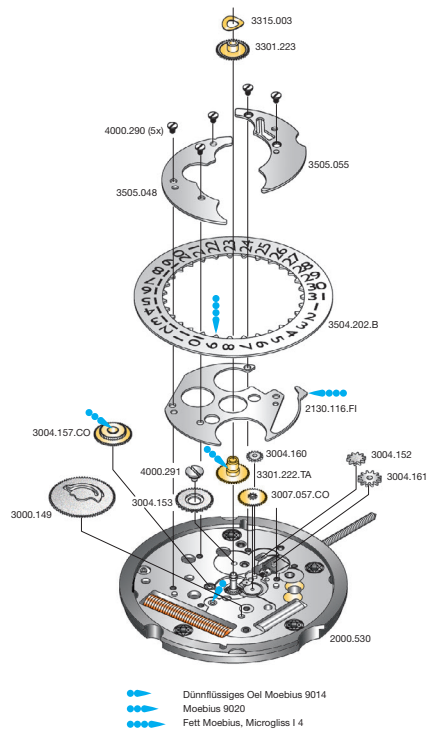
The 3 parts mentioned above are forming an individual group. Therefore the 3 parts of each group are not interchangeable.

# Werkaufbau

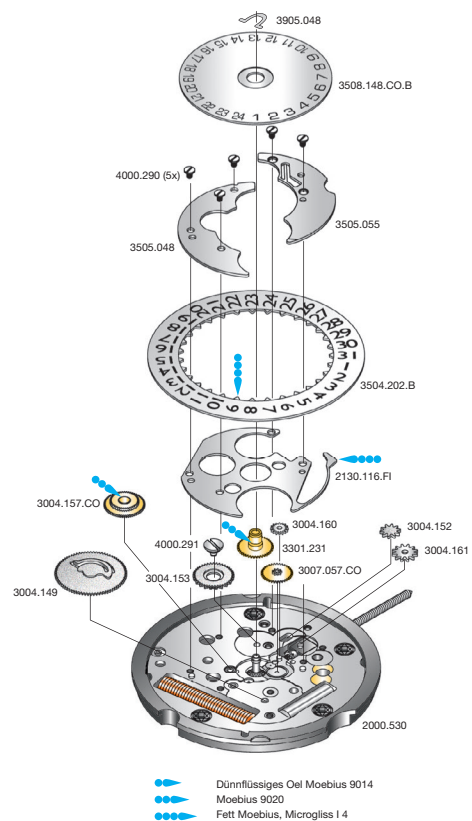
# Assemblage

# Assembling

10 1/2''' 505.24H

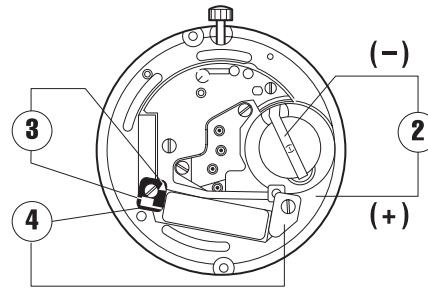
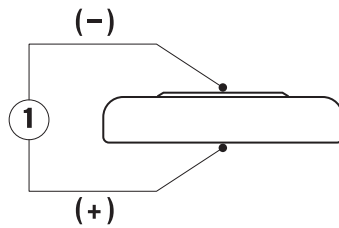


10 1/2''' 505.24D



| Cal. 505.24H | Zifferblattseite / Côté cadran / Dial side |                              |                      |
|--------------|--|------------------------------|----------------------|
| Plan No.     | Bestandteile                               | Fournitures                  | Spare Parts          |
| 2130.116.FI  | Kalenderplatte                             | Plaque calendrier            | Date ind. plate      |
| 3004.160     | Zeigerstellrad                             | Renvoi minuterie             | Setting wheel        |
| 3004.149     | Datummitn.-rad                             | Renvoi entraîin.             | Ind. driving wheel   |
| 3004.161     | Verbindungsrad-Kupplungtrieb               | Renvoi pig. coulant          | Slid. pin. sett. wh. |
| 3004.152     | Umkehrad                                   | Baladeur                     | Correction wheel     |
| 3004.153     | Korrekturrad                               | Roue correcteur              | Correcteur wheel     |
| 3004.157.CO  | Friktionsrad                               | Friction                     | Friction wheel       |
| 3007.057.CO  | Wechselrad                                 | Minuterie                    | Minute wheel         |
| 3301.222.TA  | Stundenrad                                 | Canon                        | Hour wheel           |
| 3301.223     | Stundenrad                                 | Canon                        | Hour wheel           |
| 3315.003     | Spreizfeder                                | Clinquant                    | Washer               |
| 3504.202.B   | Datumsanzeiger                             | Baque                        | Date indicator       |
| 3505.055     | Kalender-Abdeckplatte (Nr. 2)              | Couvercle calendrier (no. 2) | cover (no. 2)        |
| 3505.048     | Kalender-Abdeckplatte (Nr. 1)              | Couvercle calendrier (no. 1) | cover (no. 1)        |
| 4000.290     | Schraube                                   | Vis                          | Screw                |
| 4000.291     | Schraube                                   | Vis                          | Screw                |

| Cal. 505.24D  | Zifferblattseite / Côté cadran / Dial side |                              |                             |
|---------------|--|------------------------------|-----------------------------|
| Plan No.      | Bestandteile                               | Fournitures                  | Spare Parts                 |
| 2130.116.FI   | Kalenderplatte                             | Plaque calendrier            | Date indicator pl.          |
| 3004.160      | Zeigerstellrad                             | Renvoi minuterie             | Setting wheel               |
| 3004.149      | Dat.-Mitn.rad                              | Renvoi entraîneur            | Ind. driving wh.            |
| 3004.161      | Verbindungsrad-Kupplungtrieb               | Renvoi pig. cou.             | Sliding pin. set.           |
| 3004.152      | Umkehrad                                   | Baladeur                     | Sliding gear                |
| 3004.153      | Korrekturrad                               | Roue corr. disque            | Correcteur wheel            |
| 3004.157.CO   | Friktionsrad                               | Friction                     | Friction wheel              |
| 3007.057.CO   | Wechselrad                                 | Minuterie                    | Minute wheel                |
| 3301.231.TA   | Stundenrad                                 | Canon                        | Hour wheel                  |
| 3504.202.B    | Datumanzeiger                              | Baque                        | Date indicator              |
| 3505.048      | Kalender- Abdeckplatte (Nr. 1)             | Couvercle calendrier (no. 1) | Date indicaor cover (no. 1) |
| 3505.055      | Kalender- Abdeckplatte (Nr. 2)             | Couvercle calendrier (no. 2) | Date indicaor cover (no. 2) |
| 3508.148.CO.B | 24 Std.-Scheibe                            | Disque 24 h                  | 24 h indicator              |
| 3905.048      | Klemmfeder für Tagesscheibe                | Clavett disque               | Disc spring clip            |
| 4000.290      | Schraube                                   | Vis                          | Screw                       |
| 4000.291      | Schraube                                   | Vis                          | Screw                       |



| Kaliber<br>Calibre<br>Caliber | Pos.<br>Pos.<br>Pos. | Einheit<br>Unité<br>Unit              | Messwerte<br>Valeurs mesurées<br>Measured values | Kontrolle<br>Contrôle<br>Check  | Bemerkungen<br>Remarques<br>Remarks   |
|-------------------------------|----------------------|---------------------------------------|--|---|---|
| 505.24H<br>505.24D            | 1                    | V                                     | 1,55   | Batterie-Spannung<br>Tension de la pile<br>Battery voltage  | Batterie herausnehmen und messen<br>Enlever et mesurer la pile<br>Remove battery for measuring                              |
| 505.24H<br>505.24D            | 2                    | µA                                    | 1,10–1,85  | Stromaufnahme<br>Consom. de courant<br>Power consumption  | Ohne Batterie, mit externer Speisung<br>Sans pile, avec alimentation externe<br>Without battery, with external power supply |
| 505.24H<br>505.24D            | 2                    | V                                     | ≤ 1,30   | Funktionskontrolle bei Minimalspannung<br>Contrôle de fonctionnement à tension minimale<br>Check with lowest possible voltage | Ohne Batterie, mit externer Speisung<br>Sans pile, avec alimentation externe<br>Without battery, with external power supply |
| 505.24H<br>505.24D            | 3                    | KΩ                                    | 1,90–2,10  | Spulenwiderstand<br>Résistance de la bobine<br>Resistance of the coil   | Ohne Batterie<br>Sans pile<br>Without battery   |
| 505.24H<br>505.24D            | 4                    | KΩ                                    | ∞  | Spulenisolation<br>Isolation de la bobine<br>Coil insulation  | Ohne Batterie<br>Sans pile<br>Without battery   |
| 505.24H<br>505.24D            |                      | Sek./Monat<br>sec./mois<br>sec./month | - 10/+ 20  | Induktivsonde 60 Sek.<br>Senseur inductif 60 sec.<br>Inductive sensor 60 sec.   | Mit Batterie<br>Avec pile<br>With battery   |

## Einschalen / Werkzeuge

## Emboîtage / outils

## Casing / tools

Nr. H 50X.1A



Nr. H 50X.1T



|                          | SWISS MADE & SWISS PARTS |
|--------------------------|--------------------------|
| Schraube<br>Vis<br>Screw |                          |

## Zeigersetzen

Maximale Aufpresskraft:

- Stunden und Minutenzeiger: max. 40N
- Sekundenzeiger: max. 30N

Beim Zeigersetzen muss das Werk abgestützt werden.

## Poser les aiguilles

Force de chassage maximale:

- Aiguilles des heure et des minutes: max. 40N
- Aiguille des secondes: max. 30N

Lors de la pose d'aiguilles, le mouvement doit être soutenu.

## Hand setting

Maximal force:

- Hour and minute hands: max. 40N
- Second hand: max. 30N

The movement needs to be supported for hand setting.

Kal. 505.24H, 505.24D  
Stellwelle entfernen

Beim Entfernen der Stellwelle muss sich die Stellwelle in **Position 2** befinden, bevor auf den Winkelhebel gedrückt wird.

Cal. 505.24H, 505.24D  
Enlever la tige

En enlevant la tige, la tige doit se trouver en **position 2**, avant de pousser sur la tirette.

Cal. 505.24H, 505.24D  
Stem removal

For removal of the stem, the stem must be in **position 2** prior to apply pressure to the setting lever.