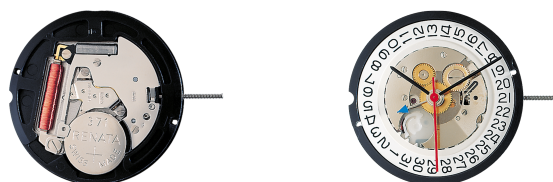


RONDA powertech 500 and 762E, 763E

Affordable metal movements
for reliable quality watches

Caliber 515.24H – 11½'''



Product Specifications

Analog quartz movement

Line	powertech	
Caliber	515.24H	
Size	11½'''	
Version	Swiss Made Swiss Parts	1 Jewels / nickel plated 1 Jewels / nickel plated
Standard battery life	45 months	
Hand fitting height	1	

Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem: Reduction of consumption approximately 70%
- Interchangeability: All versions 11½''' with same movement height 3.00 mm and stem height 1.50 mm
- Very powerful stepping motor
- GMT function with quick change

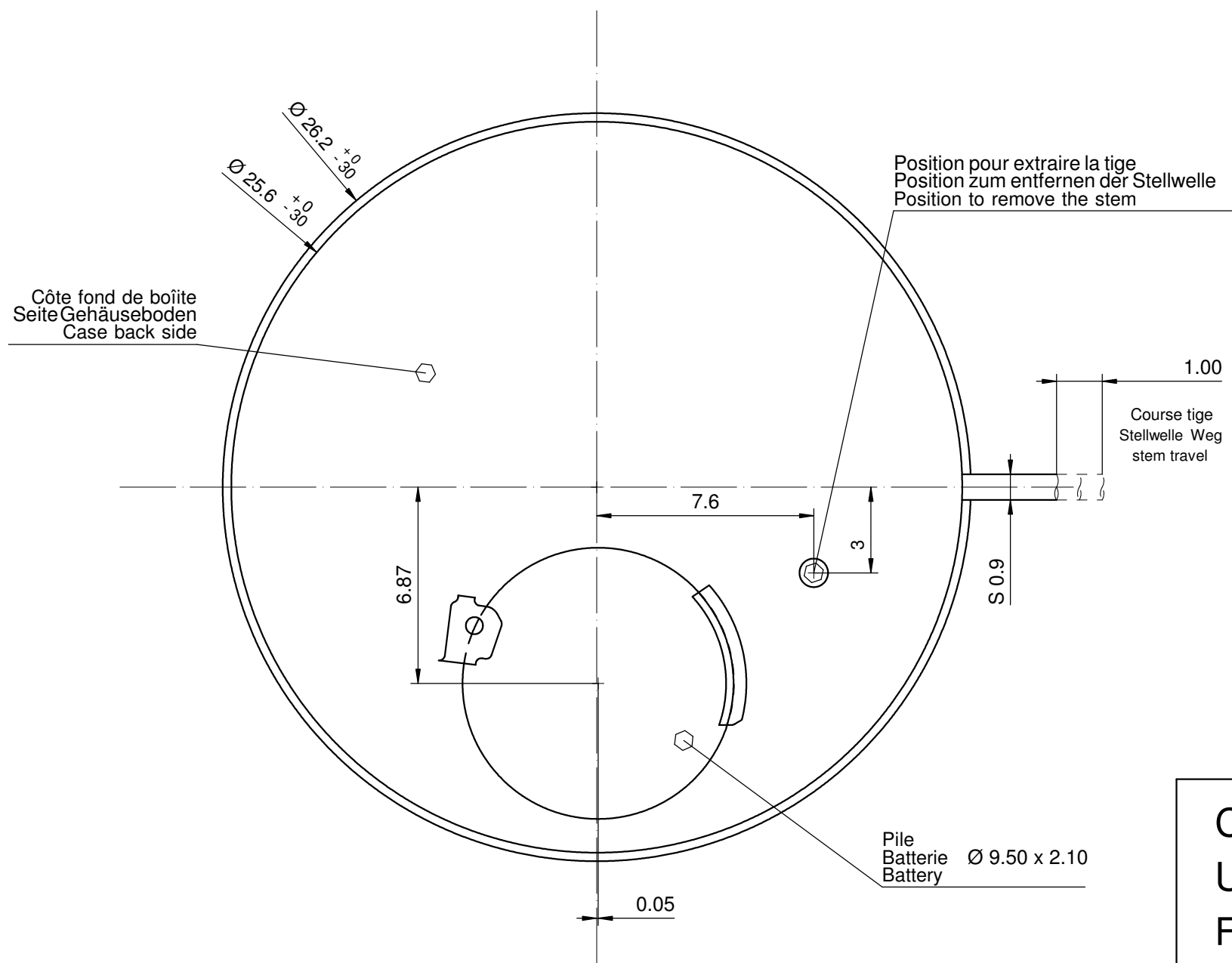
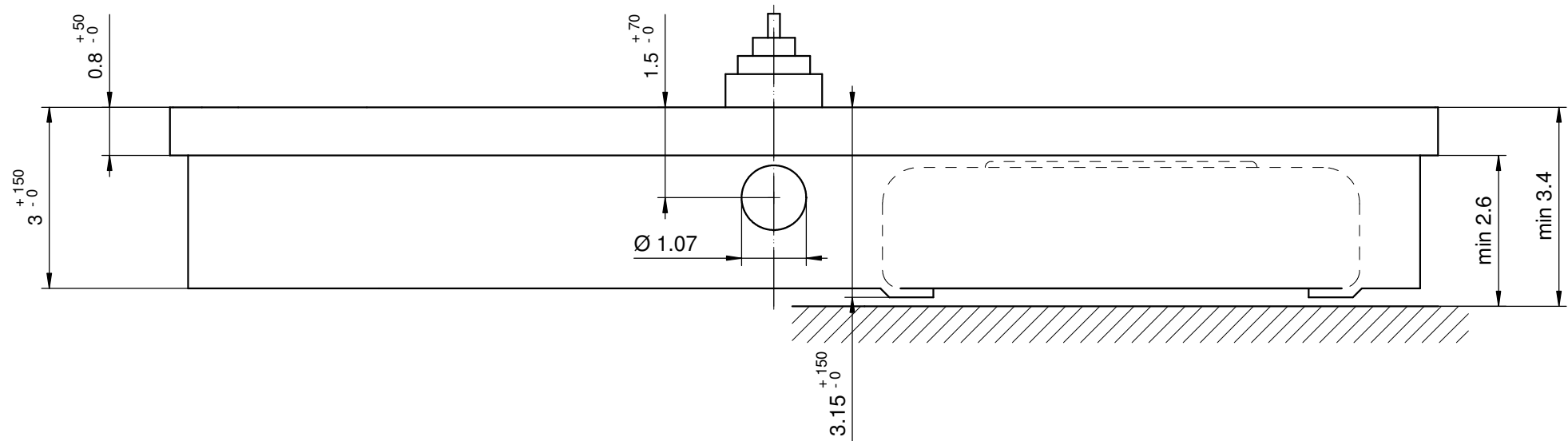
Functions

- 24 hours
- 24 hours by hand – GMT function
- Date
- 3 hands

Technical Specifications

Diameter Total	26.00 mm
Case fitting	25.60 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
Standard battery	371
Standard battery life	45 months
Battery voltage	1.5 V
Current consumption – typical	1.28 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.85 µA (Date Mechanism not in Gear)
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

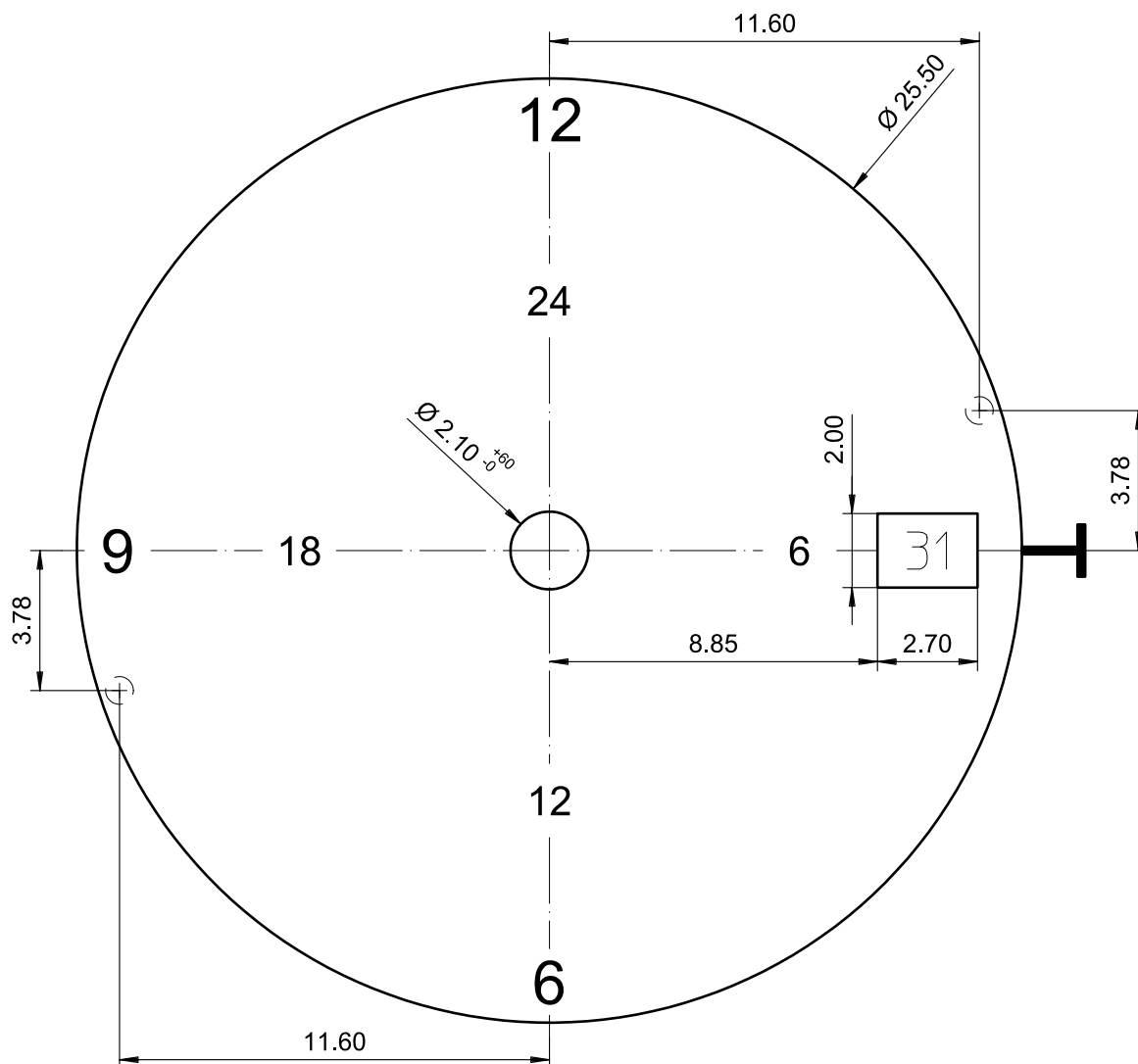




Sécurité entre aiguille seconde et verre : min 0.30 mm
Sicherheit zwischen Sekundenzeiger und Glas : min 0.30 mm
Security between second hand and glass : min 0.30 mm

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.

Cage Uhrwerkgestell Frame		11½"		Issued	10 Mrz 1999	gd
				Modified	23 Jun 2011 ÄA 11169	dh
				Released	YES	
				Tolerance	+/- 20 µm	
				Scale	10 : 1 (5 : 1) (A3H)	
RONDA	515.24H	Sous réserve de modifications Äenderungenvorbehalten Modificationsreserved				
		No.	5000.288	05		



Tige	Date
Stellw.	Datum
Stem	Date
3H	3H

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

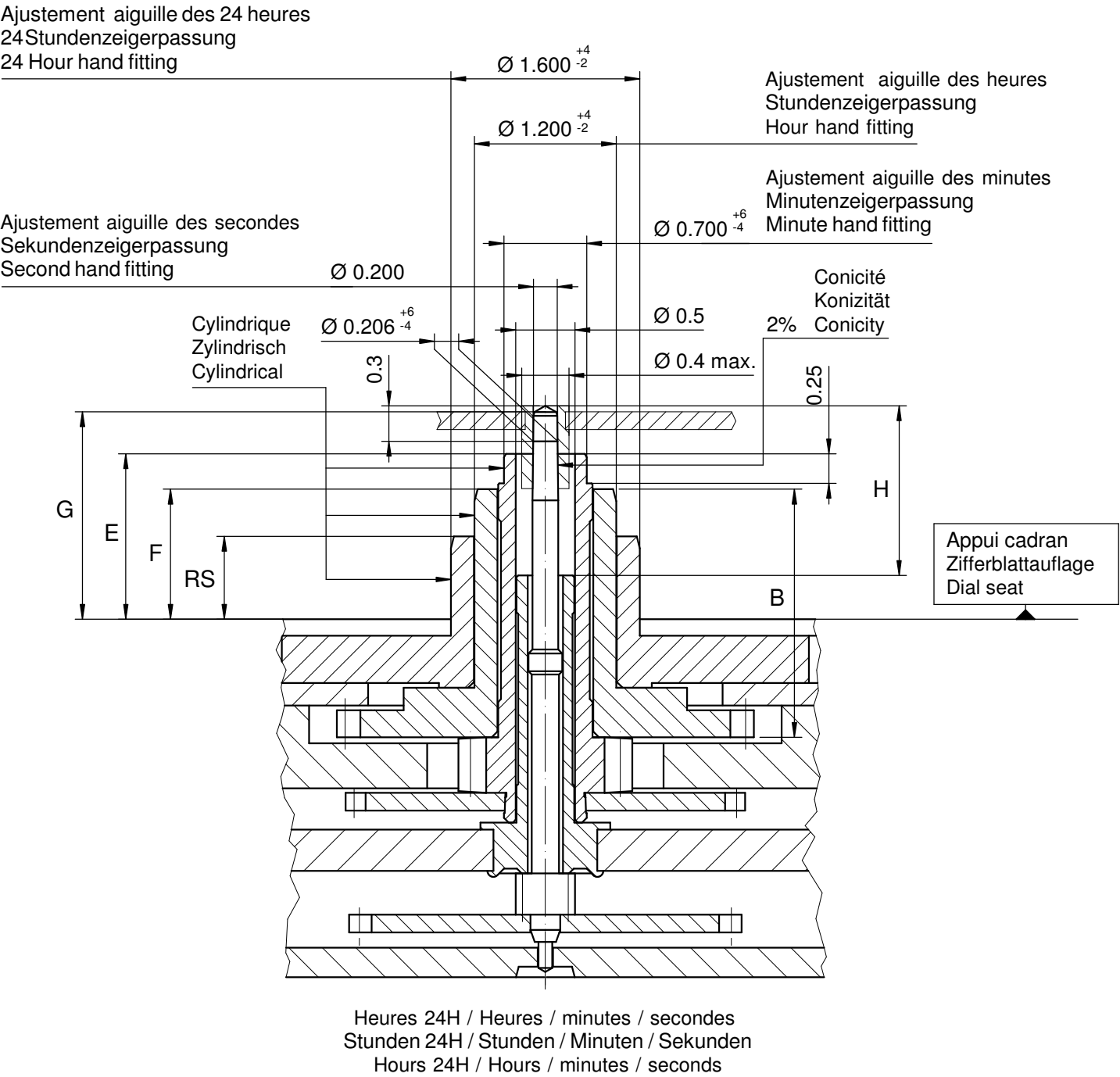
Cadran
Zifferblatt
Dial

11 1/2"

Issued	14 Dez 2006	cw
Modified	15.Mai.2007 ÄA ----	cm
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.496	02

RONDA

515.24H



Aiguillage no ZeigerwerkhöheNr. Hand fitting height No	Dépassement Höhe über Zifferblattauflage Height over dial seat				Longueur Länge Length		Epaisseur max. (peinture comprise) Max. Dicke (inkl. Farbe) Max. thickness (paint included)				
	Pignon des secondes Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Roue des heures 24H Stundenrad 24H Hour wheel 24H	H	B	Cadran Zifferblatt Dial				Aiguilles Zeiger Hands
							Sous l'aiguille des secondes Unter Sekundenzeiger Under second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Sous l'aiguille des heures 24H Unter Stundenzeiger 24H Under hour hand 24H	
1	G	E	F	RS	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

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

Sous réserve de toutes modifications		Änderungen vorbehalten		All modifications reserved			
Aiguillages Zeigerwerkhöhen Hand fitting heights				Issued		10 Mär 1999	gd
				Modified		17 Feb 2011 ÄA 10340	ps
				Released		Yes	
				Tolerance		µm	
				Scale		20 : 1 (A3H)	
RONDA		505.24H, 515.24H		Sous réserve de modifications Änderungen vorbehalten Modifications reserved			
				No.	3316.061	07	

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

* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

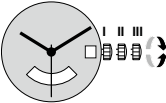
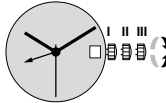
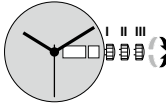
* In case of different values, please contact the customer service

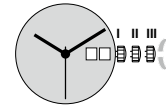
RONDA powertech

- 505.24D/515.24D
- 505.24H/515.24H
- 507/517
- 509/519

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	Cal. 507 / 517
Pos. I Position of rest (watch running)		Pos. I Position of rest (watch running)
Pos. II Quick-change correction of the date <i>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.</i> – 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. II Quick-change correction of the date <i>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.</i> – 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 <i>The blocking time for the day of the week quick-change correction is from approx. 10 pm and midnight.</i> – 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

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. 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

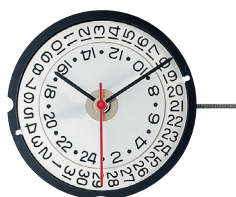
- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.

Applies to all calibers:

Battery type: 371 / SR920SW (Ø 9.5 mm x 2.05 mm)

Accuracy: +20/-10 seconds per month

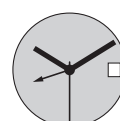




11 1/2^{mm}



515.24D



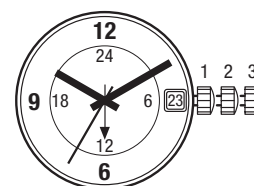
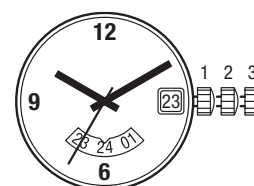
515.24H

Funktionen

Fonctions

Functions

Kaliber	Stellwellenpos.	Funktionen
Calibre	Pos. de tige	Fonctions
Caliber	Stem position	Functions
515.24	1	Normale Position / Position normale / Running position
	2	Datumkorrektur / 24-Stundenkorrektur Correction de la date / Correction 24 heures Date correction / 24 hours correction
	3	Zeiger stellen, Sekunden-Stopp mit Unterbruch der Motorimpulse Mise à l'heure, stop-seconde avec interruption des impulsions moteur Hand setting, stop-second with interruption of motor pulses



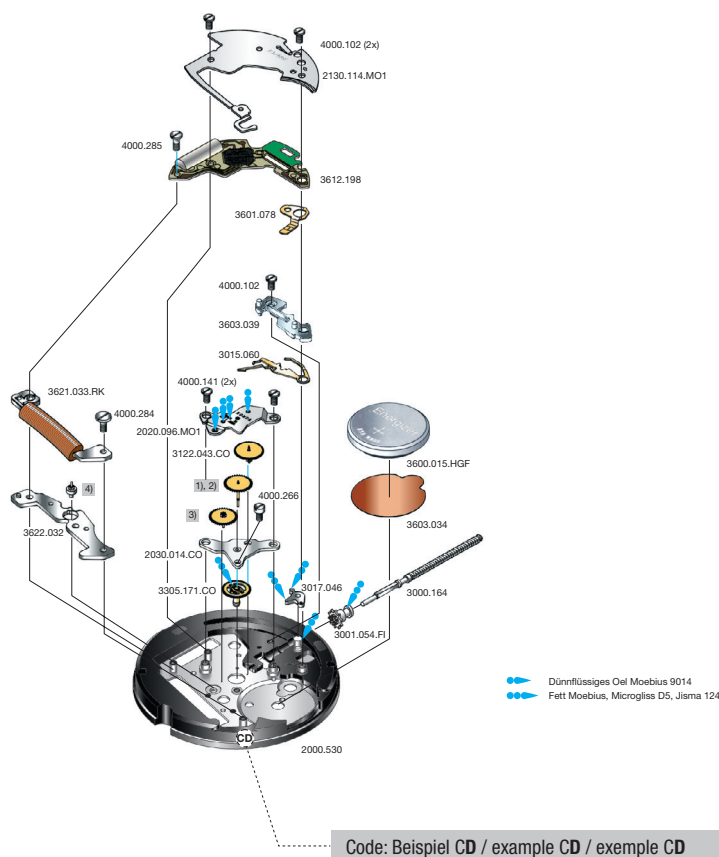
Batterie

Pile

Battery

Kaliber	Batterie	Spannung	Artikelnummer RONDA
Calibre	Pile	Voltage	Numero d'article RONDA
Caliber	Battery	Tension	Part number RONDA
515.24	371 / SR920SW	1.55 V	3600.015.HGF

11 1/2''' 515.24H, 515.24D



Cal. 515.24D	Werkseite / Côté mouvement / Movement side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2000.530	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. 515.24H	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. 515.24D		
Bis Juni 2015 Jusqu' en Juin 2015 Untill June 2015		Ab Juli 2015 A partir de Juillet 2015 From July 2015
Code	2. Buchstabe ... C Second letter ... C 2 ^{ème} chiffre: ... C	2. Buchstabe: ab D Second letter: from D 2 ^{ème} chiffre: à partir de D
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. 515.24H		
Bis Juni 2015 Jusqu' en Juin 2015 Untill June 2015		Ab Juli 2015 A partir de Juillet 2015 From July 2015
Code	2. Buchstabe ... C Second letter ... C 2 ^{ème} chiffre: ... C	2. Buchstabe: ab D Second letter: from D 2 ^{ème} chiffre: à partir de D
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.

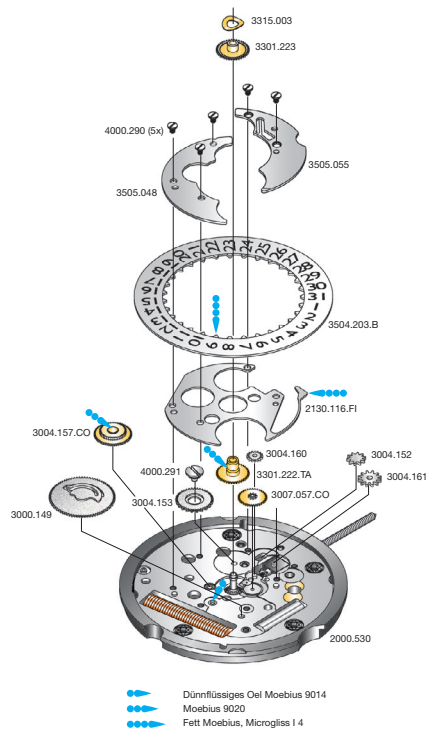
The 3 parts mentioned above are forming an individual group. Therefore the 3 parts of each group are not interchangeable.

Werkaufbau

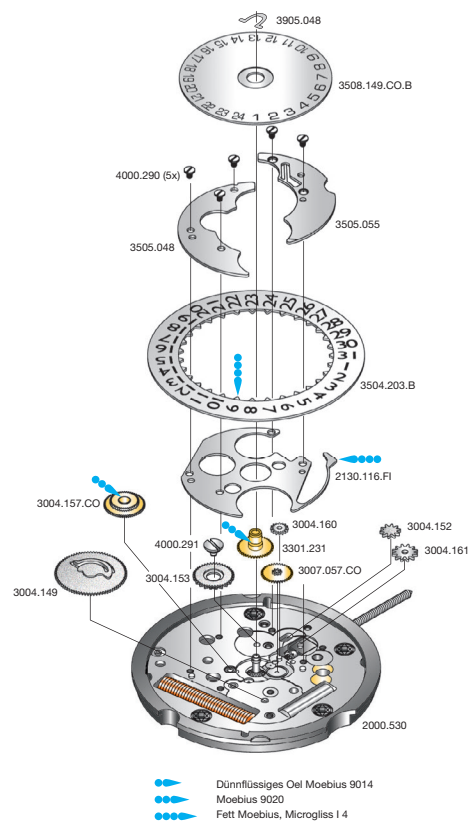
Assemblage

Assembling

11 1/2''' 515.24H

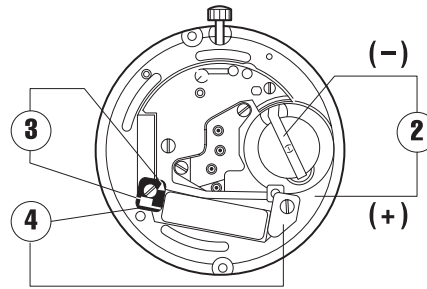
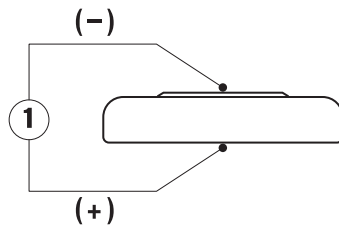


11 1/2''' 515.24D



Cal. 515.24H	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
3504.203.B	Datumsanzeiger	Baquet	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. 515.24D	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
3504.203.B	Datumanzeiger	Baquet	Date indicator
3505.048	Kalender- Abdeckplatte (Nr. 1)	Couvercle calendrier (no. 1)	cover (no. 1)
3505.055	Kalender- Abdeckplatte (Nr. 2)	Couvercle calendrier (no. 2)	Date indicaor cover (no. 2)
3508.149.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 Calibre Caliber	Pos. Pos. Pos.	Einheit Unité Unit	Messwerte Valeurs mesurées Measured values	Kontrolle Contrôle Check	Bemerkungen Remarques Remarks
515.24H 515.24D	1	V	1,55	Batterie-Spannung Tension de la pile Battery voltage	Batterie herausnehmen und messen Enlever et mesurer la pile Remove battery for measuring
515.24H 515.24D	2	µA	1,10–1,85	Stromaufnahme Consom. de courant Power consumption	Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe Without battery, with external power supply
515.24H 515.24D	2	V	≤ 1,30	Funktionskontrolle bei Minimalspannung Contrôle de fonctionnement à tension minimale Check with lowest possible voltage	Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe Without battery, with external power supply
515.24H 515.24D	3	KΩ	1,90–2,10	Spulenwiderstand Résistance de la bobine Resistance of the coil	Ohne Batterie Sans pile Without battery
515.24H 515.24D	4	KΩ	∞	Spulenisolation Isolation de la bobine Coil insulation	Ohne Batterie Sans pile Without battery
515.24H 515.24D		Sek./Monat sec./mois sec./month	- 10/+ 20	Induktivsonde 60 Sek. Senseur inductif 60 sec. Inductive sensor 60 sec.	Mit Batterie Avec pile With battery

Einschalen / Werkzeuge

Emboîtage / outils

Casing / tools

Nr. H 51X.1A



Nr. H 51X.1T



	SWISS MADE & SWISS PARTS
Schraube Vis 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. 515.24H, 515.24D
Stellwelle entfernen

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

Cal. 515.24H, 515.24D
Enlever la tige

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

Cal. 515.24H, 515.24D
Stem removal

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