

Caliber 505S – 10½"



Product Specifications

Analog quartz movement

Line	powertech
Caliber	505S
Size	10½"
Version Swiss Made	1 Jewels / nickel plated
Version Swiss Parts	1 Jewels / nickel plated
Standard battery life	24 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
- Fix motor pulse

Functions

- Option for second disc
- Date
- 3 hands

Quartz Movements

Classic Functions

RONDA powertech

Caliber 505S – 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	9 µNm
Useful torque minute – typical	450 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	24 months
Battery voltage	1.5 V
Current consumption – typical	2.4 µA (Date Mechanism not in Gear)
Current consumption – maximum	2.65 µA (Date Mechanism not in Gear)



+

1.00
avec date
mit Datum
with date

Course tige
Stellwelle Weg
stem travel

0.45
sans date
ohne Datum
without date

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

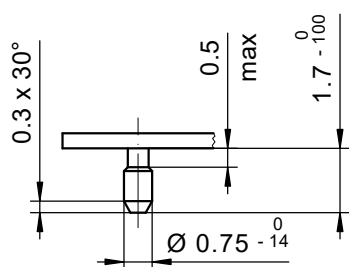
Le cadran doit être maintenu en hauteur par la boîte.
Das Zifferblatt muss in der Höhe vom Gehäuse festgehalten werden.
The dial must be held in the height by the case.

Cage
Uhrwerkgestell 10½"
Frame

RONDA

502, 503, 503S, 505,
505S, 507, 509

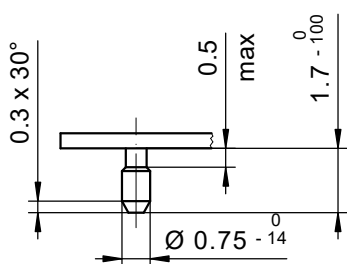
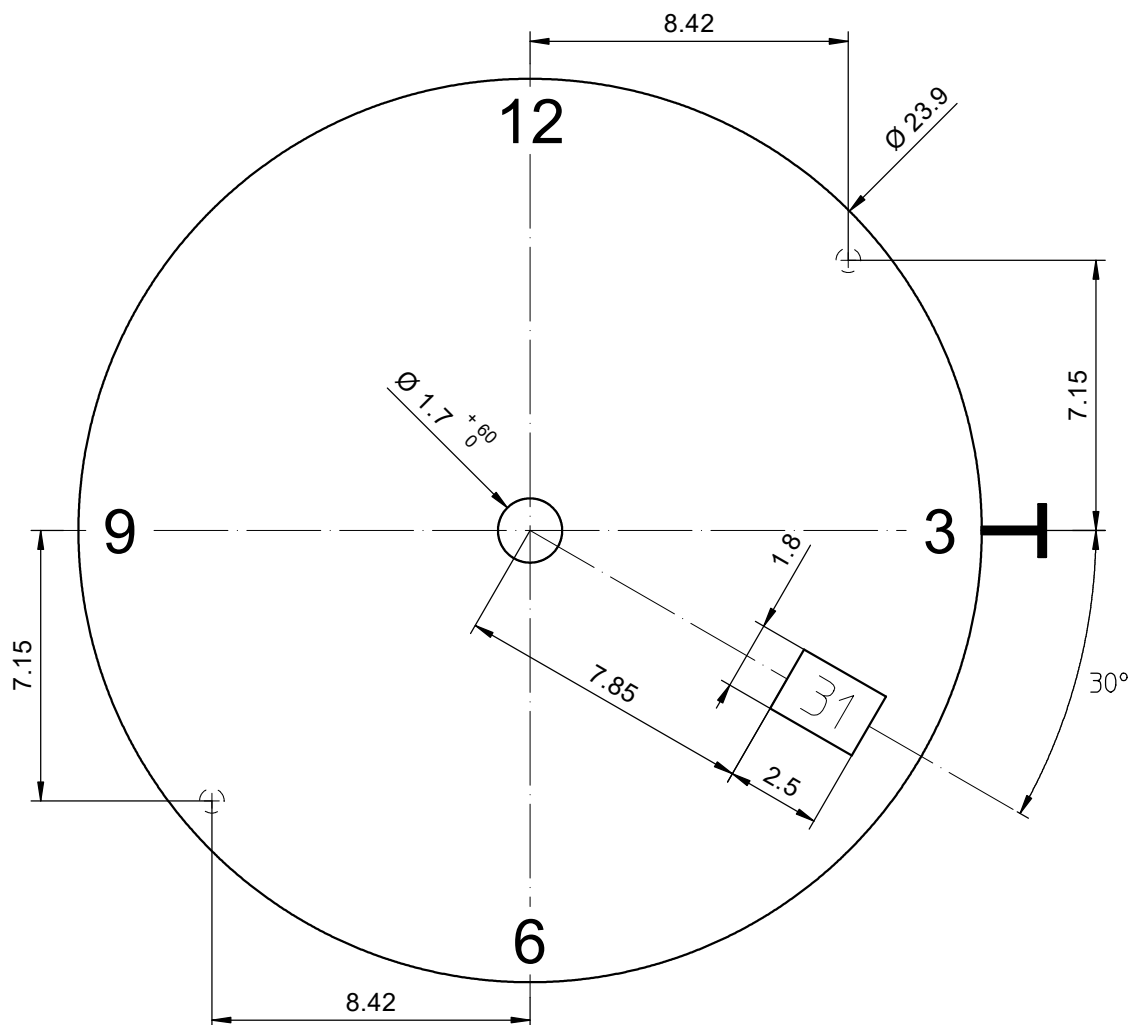
Issued	09.02.2000	cs
Modified	16.11.2017	dh5221
Released	YES	
Mod. No.	36881	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A3
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5000.284	07



Tige	Date
Stellw.	Datum
Stem	Date
3H	3H
	<input type="text"/>

Issued	14.12.2006	cw
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4

Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5010.360	08



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	4H

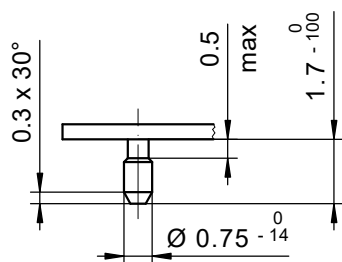
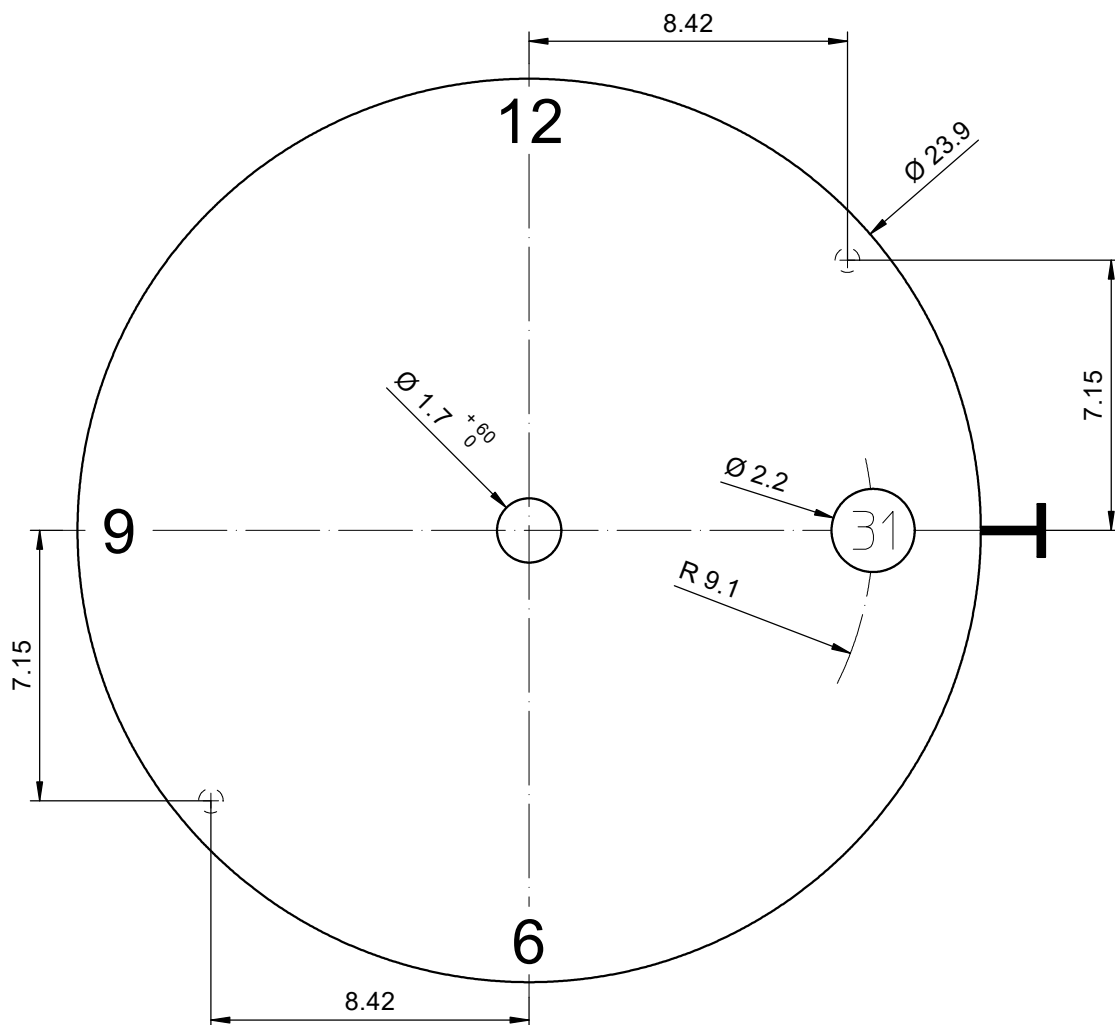
Cadran
Zifferblatt 10½"
Dial

Issued	05.06.2007	cm
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4


RONDA 505, 505S, 704, 705

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No. 5010.376 03



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
	

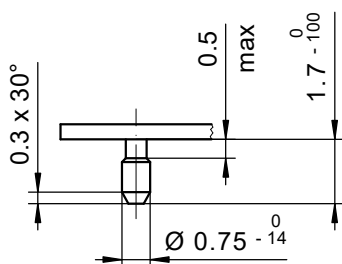
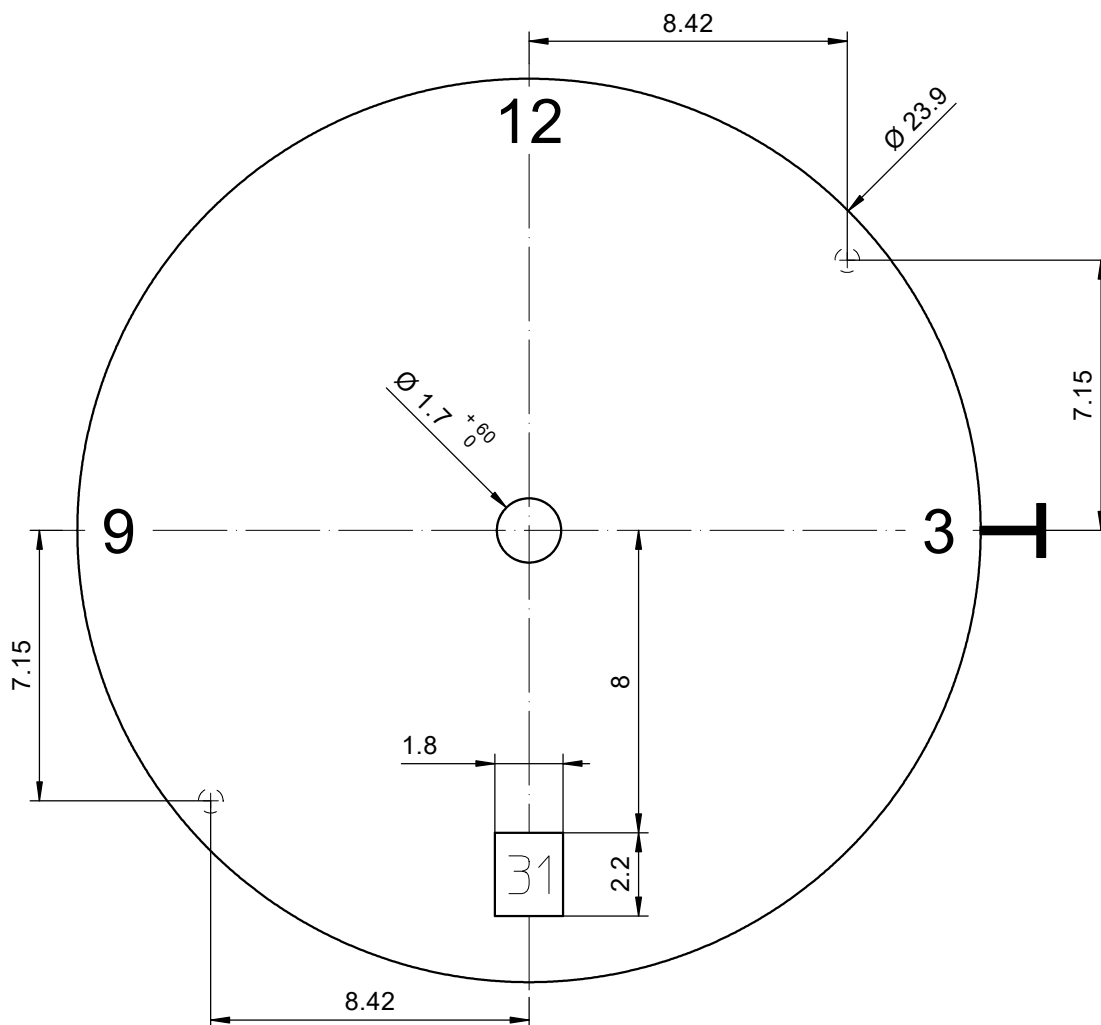
Cadran
Zifferblatt 10½"
Dial

Issued	14.12.2006	cw
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4

RONDA 505, 505S, 704, 705

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No. 5010.422 08



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

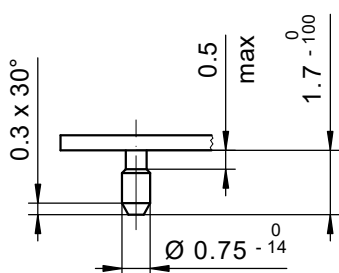
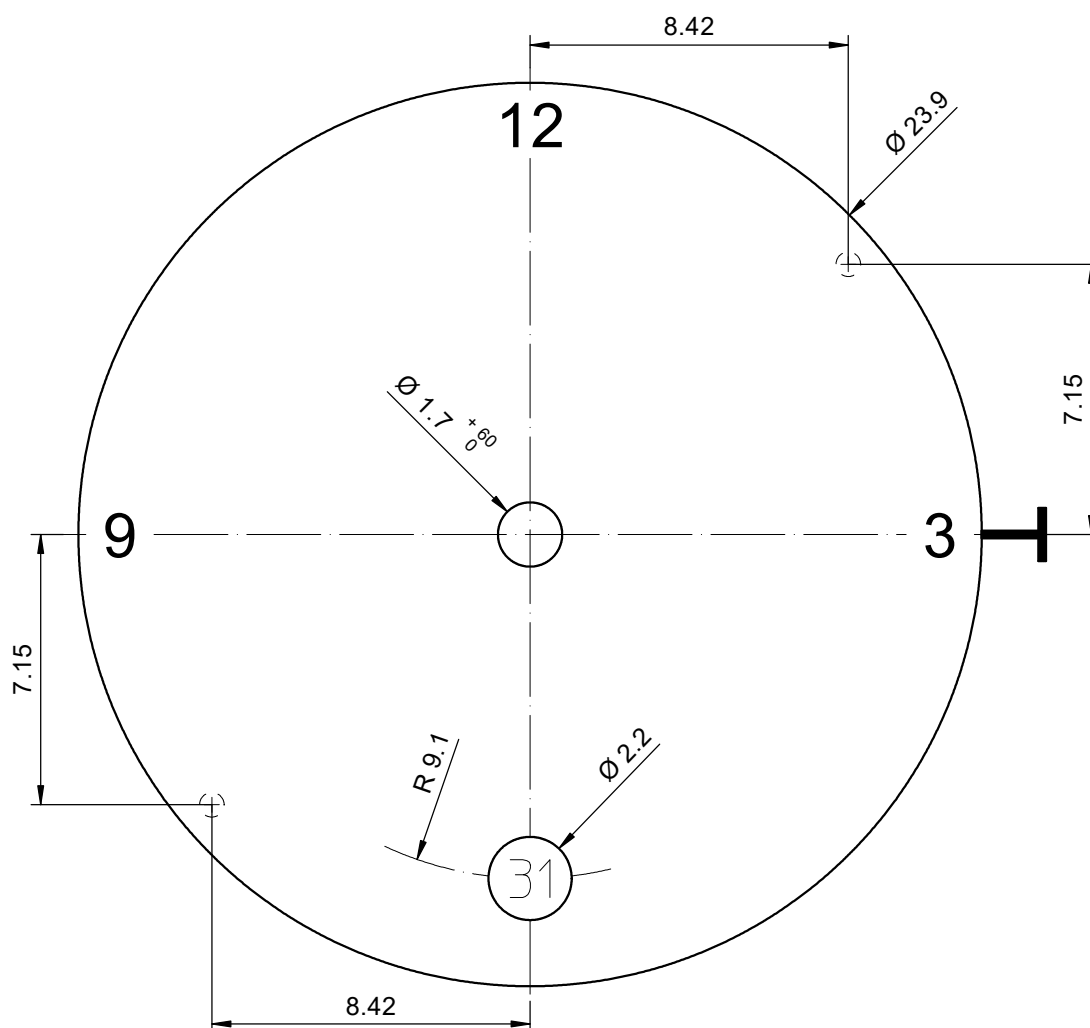
Cadran
Zifferblatt 10½"
Dial

Issued	13.12.2006	rh
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4


RONDA 505, 505S, 704, 705

Sous réserve de modifications
Aenderungen vorbehalten
Modifications reserved

No. 5010.423 07



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
	

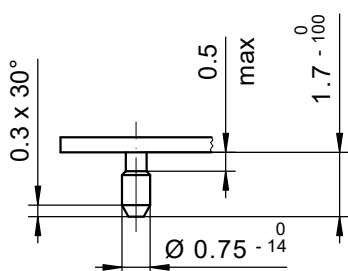
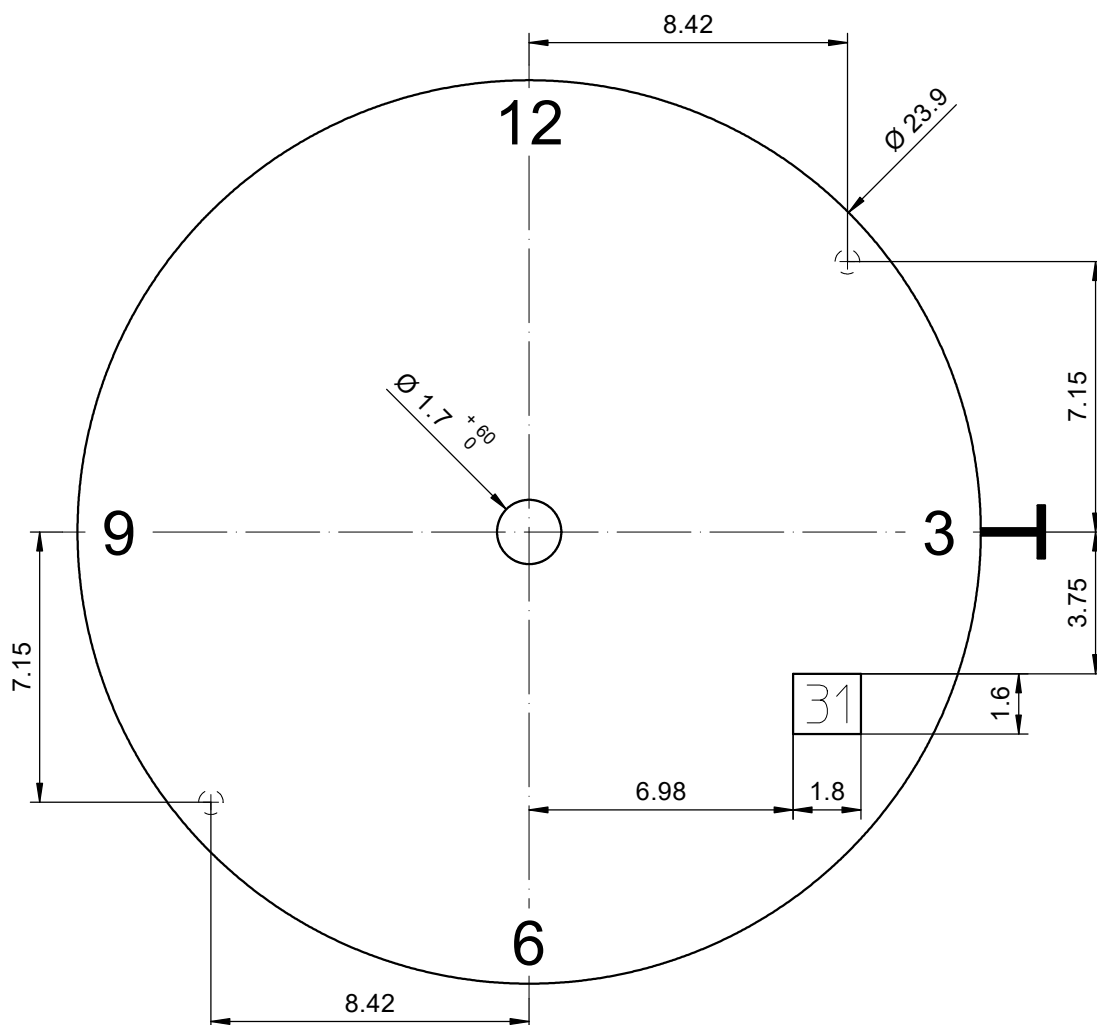
Cadran
Zifferblatt 10½"
Dial

Issued	14.12.2006	cw
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4

RONDA 505, 505S, 704, 705

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No. 5010.426 07



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	4H

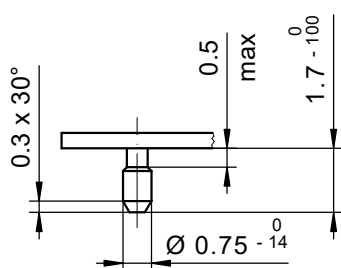
Cadran
Zifferblatt 10 1/2"
Dial

Issued	14.12.2012	cw
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4

RONDA 505, 505S, 704, 705

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No. 5010.578 04

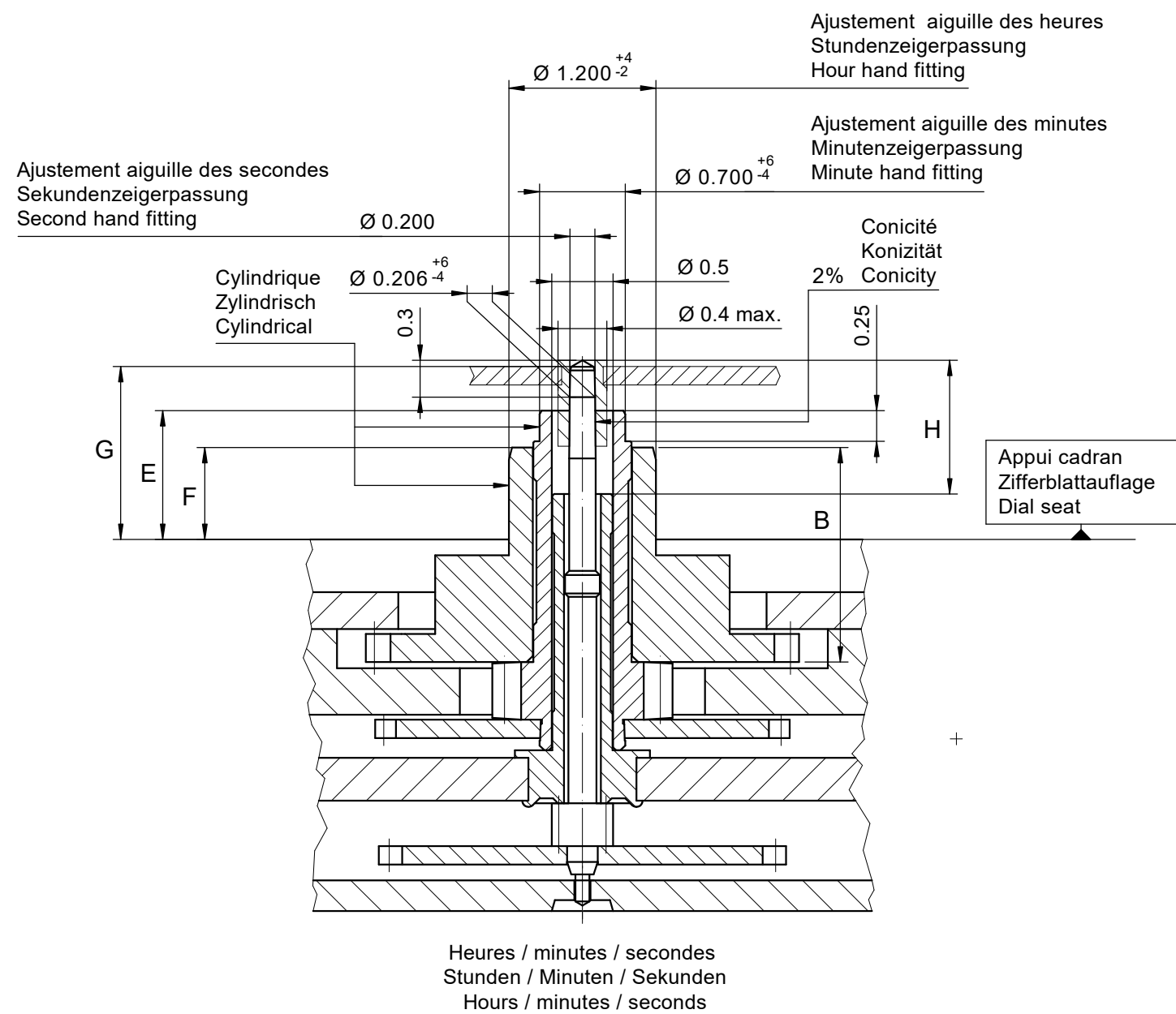


Tige	Date
Stellw.	Datum
Stem	Date
3H	4½H
	<input type="text"/>

Issued	14.12.2006	cw
Modified	13.03.2020	dh5221
Released	YES	
Mod. No.	7795	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A4

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No.	5010.583	04
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Aiguillage no Zeigerwerkhöhe Nr. 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			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	
1	1.46	1.05	0.75	1.09	1.75	0.95	0.65	0.40	0.15
2	1.81	1.40	1.10	1.44	2.10	1.30	1.00	0.75	0.15
6	2.31	1.98	1.58	1.19	2.58	1.80	1.55	0.40	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.	85	700	700	Masse / Masse / Weight *
µNm	max.	0.08	0.70	0.70	Balourd / Unwucht / Unbalance *
gmm ²	max.	1.0	-	-	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	Force de chassage / Aufpresskraft / Force

Aiguillages
Zeigerwerkhöhen
Hand fitting heights

10½", 11½"

RONDA 503S, 505S, 513S, 515S

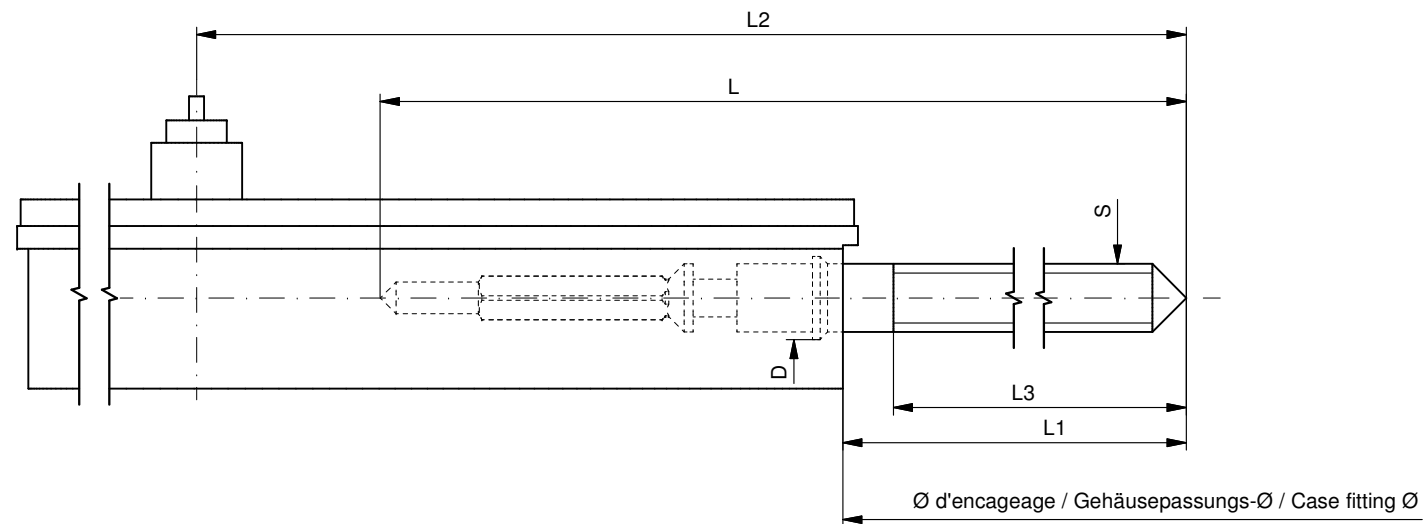
Issued	25.01.2022	jk5228
Modified	26.01.2022	jk5228
Released	YES	
Mod. No.	44909	
Tolerance	µm	
Scale	20 : 1	Page 1/1 A3

Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.200	00

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

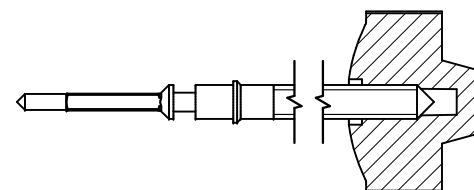
* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

* 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)

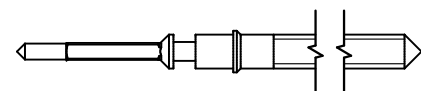
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.164.CO	20.50	11.09	22.74	11.83	0.90	1.05



Couleur de la couronne Kronenfarbe Crown color	brun braun brown
Code	UN 8052

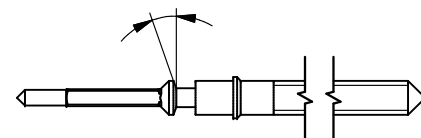
Tige (normale) / Stellwelle (normal) / Stem (normal)

No. d'article Artikelnummer 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



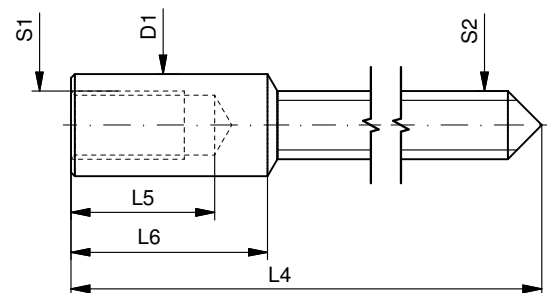
Tige (à arracher)
Stellwelle (Ausreissversion)
Stem (extractable version)

No. d'article Artikelnummer 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

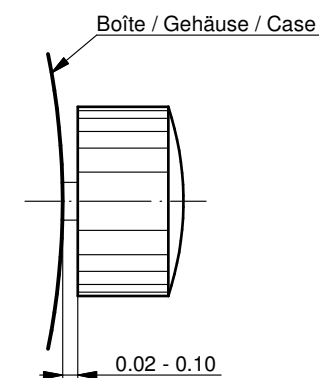


Rallonge de tige / Stellwelle Verlängerung / Stem extension

No. d'article Artikelnummer Part number	L4	L5 (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. Kraft ⇐ min. Force ⇐ min.	10 N
Force ⇐ max. Kraft ⇐ max. 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 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	

Sous réserve de modifications
Änderungen vorbehalten
Modifications reserved

No.	5030.001	01
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User's Manual English
Movements Caliber

RONDA powertech

- 585
- 505
- 515

RONDA normtech

- 774 - 6003.D
- 775 - 6004.D
- 704
- 705
- 784
- 785
- 714
- 715
- 715Li

RONDA slimtech

- 1005
- 1006
- 1009
- 1015
- 1016
- 1019

RONDA xtratech

- 6003.B
- 6004.B
- 7002.B
- 7003.B
- 7004.B

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. 585 / 785:
Battery type: 362/SR721SW

Cal. 774 / 775 / 784:
Battery type: 364/SR621SW

Cal. 505 / 515 / 704 / 705 / 714 / 715:
Battery type: 371/SR920SW

Cal. 6003.D / 6004.D / 6003.B / 6004.B:
Battery type: 373/SR916SW

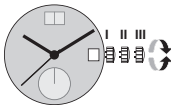
Cal. 1005 / 1006 / 1009 / 1015 / 1016 / 1019:
Battery type: 341/SR714SW

Cal. 7002.B / 7003.B / 7004.B:
Battery type: 381/SR1120SW

Cal. 715Li:
Battery type: CR 2016

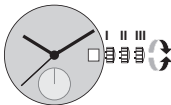
Precision: +20/-10 seconds per month

Cal. 585	Cal. 6003.D
Cal. 505	Cal. 6004.D
Cal. 515	Cal. 6003.B
	Cal. 6004.B



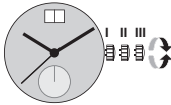
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown clockwise until the required date appears.
Cal. 6003.D & 6004.D:
 - Turn the crown 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.

Cal. 774	Cal. 715Li
Cal. 775	
Cal. 704	Cal. 1005
Cal. 705	Cal. 1006
Cal. 784	Cal. 1009
Cal. 785	Cal. 1015
Cal. 714	Cal. 1016
Cal. 715	Cal. 1019

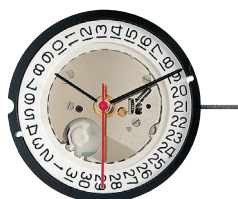


- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
Blocking time for the quick-change day correction is from approx. 9.30 pm and midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current date appears.
 - Push the crown 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.

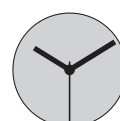
Cal. 7002.B
Cal. 7003.B
Cal. 7004.B



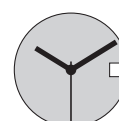
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be changed during the day-changing phase between approx. 8.00 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current 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.



10 1/2'''



503S



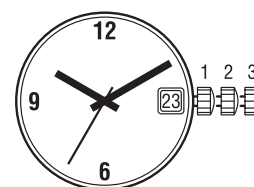
505S

Funktionen

Fonctions

Functions

Kaliber Calibre Caliber	Stellwellenpos. Pos. de tige Stem position	Funktionen Fonctions Functions
503S	1	Normale Position / Position normale / Running position
	2	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
505S	1	Normale Position / Position normale / Running position
	2	Datumskorrektur / Correction de la date / Date 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



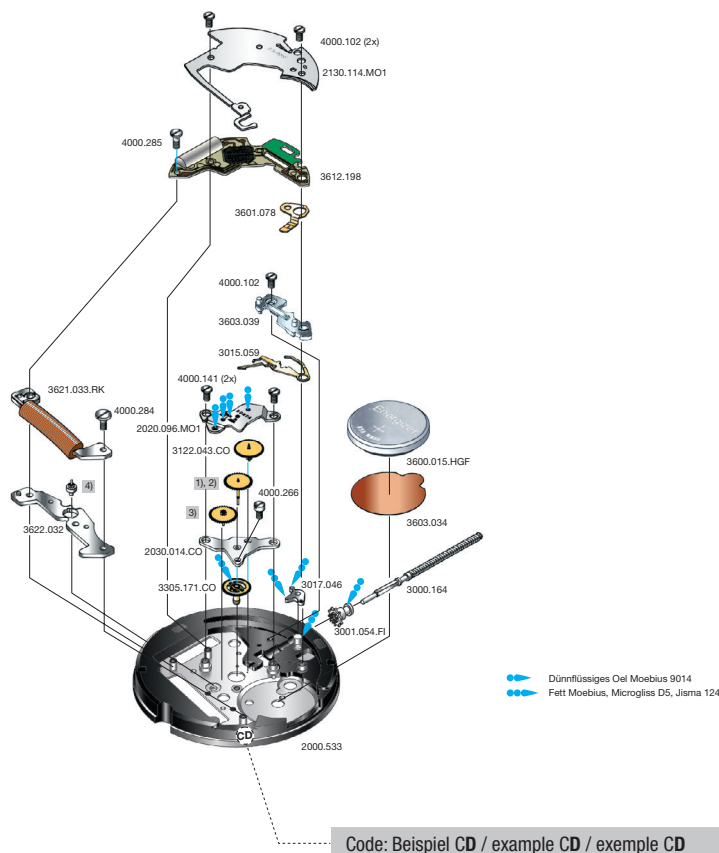
Batterie

Pile

Battery

Kaliber Calibre Caliber	Batterie Pile Battery	Spannung Voltage Tension	Artikelnummer RONDA Numero d'article RONDA Part number RONDA
503S, 505S	371 / SR920SW	1.55 V	3600.015.HGF

10 1/2''' 503S, 505S



Cal. 503S	Werkseite / Côté mouvement / Movement side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2000.533	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
3015.059	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
3612.199	Modul	Module	Module
3621.036.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. 505S	Werkseite / Côté mouvement / Movement side		
Plan No.	Bestandteile	Fournitures	Spare Parts
3015.060	Kuppl.-triebhebel	Bascule	Yoke

Cal. 503S, 505S

Bis Dezember 2015 Jusqu' en Decembre 2015 Untill December 2015		Ab Januar 2016 A partir de Janvier 2016 From January 2016
Code	2. Buchstabe ... D Second letter ... D 2 ^{ème} chiffre: ... D	2. Buchstabe: ab E Second letter: from E 2 ^{ème} chiffre: à partir de E
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.

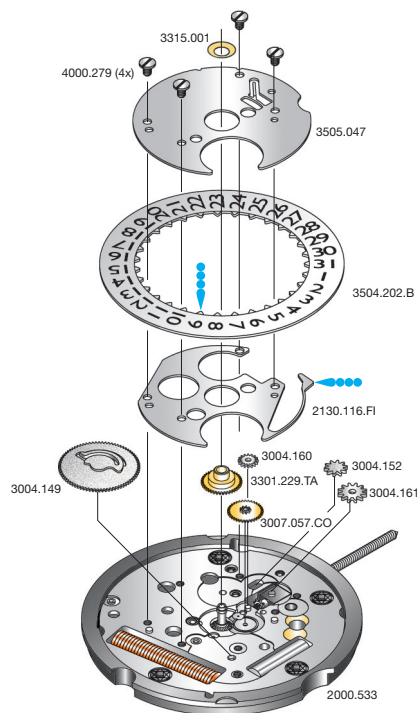
Werkaufbau

Assemblage

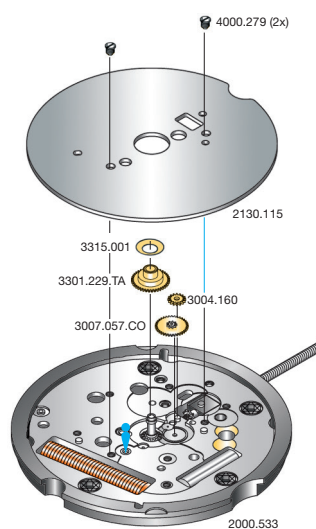
Assembling

10 1/2''' 505S

10 1/2''' 503S



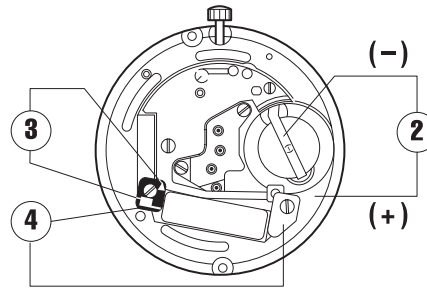
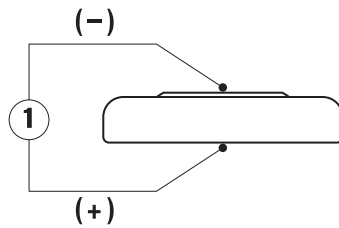
●●●●● Fett Moebius, Microgloss I 4



●●●●● Dünnflüssiges Öl Moebius 9014

Cal. 505S	Zifferblattseite / Côté cadran / Dial side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2130.116.FI	Kalenderplatte	Plaque calendrier	Date ind. plate
3004.149	Datummitn.-rad	Renvoi entraî.	Ind. driving wheel
3004.152	Umkehrad	Baladeur	Sliding gear
3004.160	Zeigerstellrad	Renvoi minuterie	Setting wheel
3004.161	Verbindungsrad-Kupplungtrieb	Renvoi pig. coulant	Sliding pinon setting wheel
3007.057.CO	Wechselrad	Minuterie	Minute wheel
3301.229.TA	Stundenrad	Canon	Hour wheel
3315.001	Spreizfeder	Clinquant	Washer
3504.202.B	Datumanzeiger	Bague	Date indicator
3505.047	Kal.-Abdeckplatte	Couvercle calend.	Date ind. cover
4000.279	Schraube	Vis	Screw

Cal. 503S	Zifferblattseite / Côté cadran / Dial side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2130.115	Zeigerwerkplatte	Plaque maintien	Maintening plate
3004.160	Zeigerstellrad	Renvoi minuterie	Setting wheel
3007.057.CO	Wechselrad	Minuterie	Minute wheel
3301.229.TA	Stundenrad	Canon	Hour wheel
3315.001	Spreizfeder	Clinquant	Washer
4000.279	Schraube	Vis	Screw



Kaliber Calibre Caliber	Pos. Pos. Pos.	Einheit Unité Unit	Messwerte Valeurs mesurées Measured values	Kontrolle Contrôle Check	Bemerkungen Remarques Remarks
503S, 505S	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
503S, 505S	2	µA	1,10–1,85 2,20–2,65	Stromaufnahme Consom. de courant Power consumption	Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe Without battery, with external power supply
503S, 505S	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
503S, 505S	3	KΩ	1,90–2,10 2,35–2,55	Spulenwiderstand Résistance de la bobine Resistance of the coil	Ohne Batterie Sans pile Without battery
503S, 505S	4	KΩ	∞	Spulenisolation Isolation de la bobine Coil insulation	Ohne Batterie Sans pile Without battery
503S, 505S		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 50x.1A



Nr. H 50x.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. 503S Stellwelle entfernen	Kal. 505S Stellwelle entfernen
Beim Entfernen der Stellwelle muss sich die Stellwelle in Position 1 (gedrückt) befinden, bevor auf den Winkelhebel gedrückt wird.	Beim Entfernen der Stellwelle muss sich die Stellwelle in Position 2 befinden, bevor auf den Winkelhebel gedrückt wird.
Cal. 503S Enlever la tige	Cal. 505S Enlever la tige
En enlevant la tige, la tige doit se trouver en position 1 (poussée), avant de pousser sur la tirette.	En enlevant la tige, la tige doit se trouver en position 2 , avant de pousser sur la tirette.
Cal. 503S Stem removal	Cal. 505S Stem removal
For removal of the stem, the stem must be in position 1 (pressed in) prior to apply pressure to the setting lever.	For removal of the stem, the stem must be in position 2 prior to apply pressure to the setting lever.