

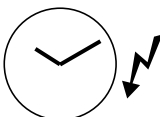
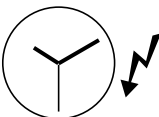
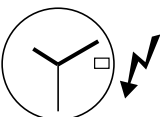
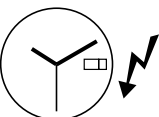
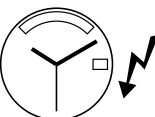
# ETA 955...2

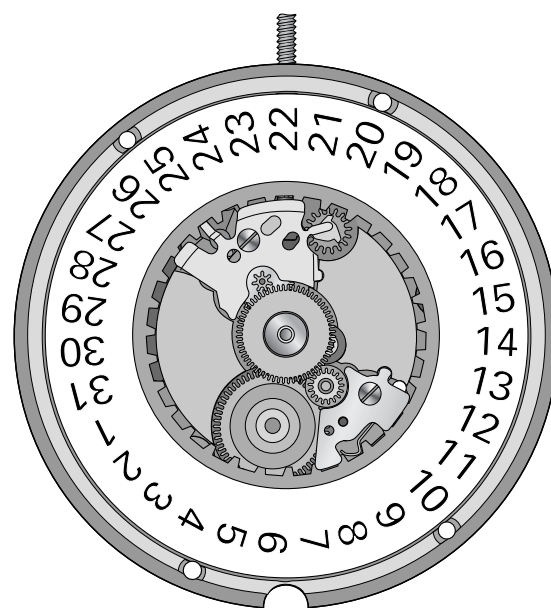
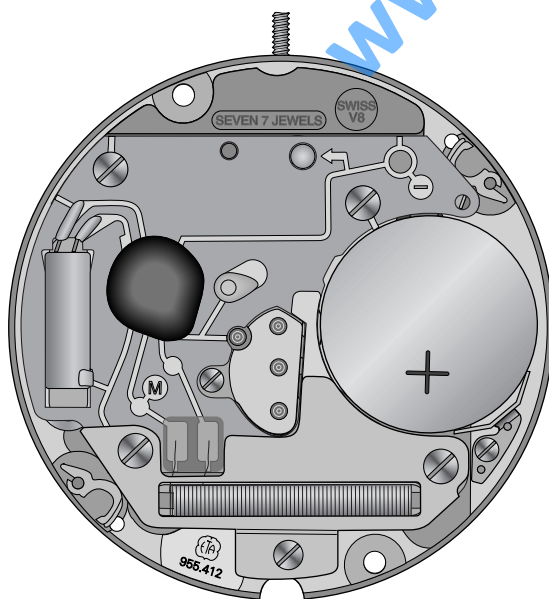
COMMUNICATION  
TECHNIQUE

TECHNISCHE  
MITTEILUNG

TECHNICAL  
COMMUNICATION

10<sup>1</sup>/<sub>2</sub>"<sup>ou</sup>  
oder  
or 11<sup>1</sup>/<sub>2</sub>"

|  |  |  |  |  |  |
|--|---|---|--|---|---|
|  | LONGLIFE  | E.O.L.  | E.O.L.   | E.O.L.  | E.O.L.  |
| Hauteur mouvement<br>Werkhöhe<br>Movement height           | 2,50 mm   | 2,50 mm   | 2,50 mm  | 3,00 mm   | 3,00 mm   |
| Hauteur sur pile<br>Höhe auf Batterie<br>Height on battery | 2,62 mm   | 2,62 mm   | 2,62 mm  | 3,12 mm   | 3,12 mm   |
| 10 <sup>1</sup> / <sub>2</sub> " Ø 23,30 mm                | 955.432   | 955.402   | 955.412  | 955.422   |   |
| 11 <sup>1</sup> / <sub>2</sub> " Ø 25,60 mm                |   | 955.102   | 955.112  | 955.122   | 955.132   |



ETA SA Fabriques d'Ebauches  
Marketing-Ventes  
CH-2540 Grenchen

Français / Deutsch / English - 15.06.2000 / STAR / 02

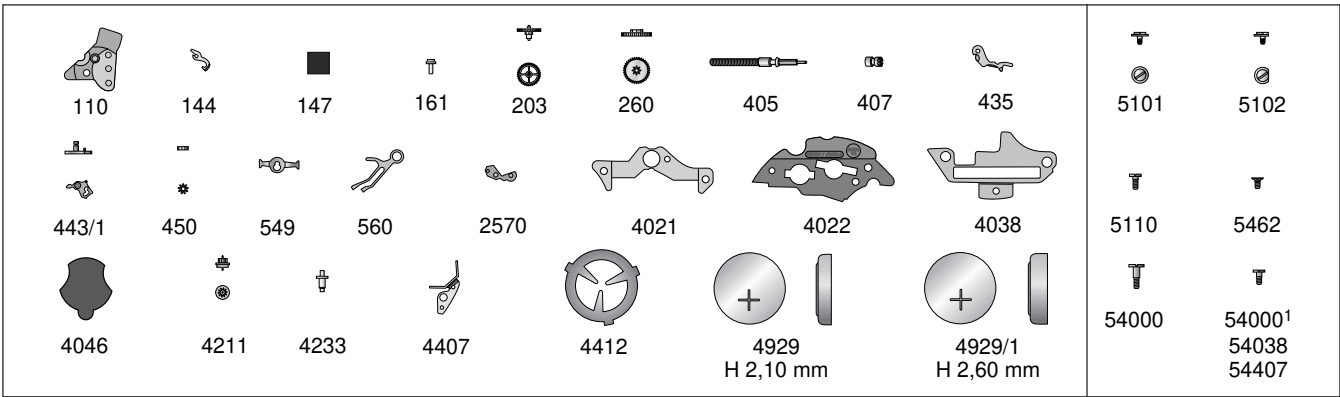
## Interchangeabilité – Auswechselbarkeit – Interchangeability

| No<br>Nr<br>No | No<br>Nr<br>CS<br>No | LISTE DES<br>FOURNITURES   | BESTANDTEILE   | LIST OF<br>MATERIALS   | Cal. – Kal. – Cal. |         |         |         |         |         |         |         |
|----------------|----------------------|--|--|--|--------------------|---------|---------|---------|---------|---------|---------|---------|
|                |                      |  |  |  | 955.102            | 955.112 | 955.122 | 955.132 | 955.402 | 955.412 | 955.422 | 955.432 |
| 100            | 10.020.07            | Platine, empierrée   | Werkplatte, mit Steinen  | Main plate, jewelled   | 955.102            | 955.112 | 955.122 | 955.132 | 955.402 | 955.412 | 955.422 | 955.432 |
| 110            | 10.048.07            | Pont de rouage, empierré   | Räderwerkbrücke, mit Steinen                                   | Train wheel bridge, jewelled                                   | 956.112            | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 |
| 144            | 10.300               | Fixateur de cadran   | Zifferblatthalter  | Dial fastener  | 2850               | 2850    | 2850    | 2850    | 2850    | 2850    | 2850    | 2850    |
| 145            | 10.106               | Support de cadran  | Träger für Zifferblatt   | Dial support   | ---                | ---     | 955.121 | 955.121 | ---     | ---     | 955.421 | ---     |
| 147            | 10.280               | Porte-marque   | Platte für Markenzeichen                                       | Mark support   | 950.001            | 950.001 | 950.001 | 950.001 | 950.001 | 950.001 | 950.001 | 950.001 |
| 161            | 80.400               | Tube de centre   | Zentrumlagerrohr   | Centre tube  | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 203            | 30.012               | Roue intermédiaire   | Zwischenrad  | Intermediate wheel   | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 210            | 30.025               | Roue moyenne   | Kleinbodenrad  | Third wheel  | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 227            | 30.027               | Roue de seconde  | Sekundenrad  | Second wheel   | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | ---     |
| 227/3          | 30.027.18            | Roue de seconde, sans seconde au centre                            | Sekundenrad, ohne Zentralsekunde                               | Second wheel, without sweep second                             | ---                | ---     | ---     | ---     | ---     | ---     | ---     | 956.031 |
| 242            | 31.083               | Chaussée avec entraîneur   | Minutenrohr mit Mitnehmer                                      | Cannon pinion with driver                                      | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | ---     |
| 242/1          | 31.083.18            | Chaussée avec entraîneur, sans seconde au centre                   | Minutenrohr mit Mitnehmer, ohne Zentralsekunde                 | Cannon pinion with driver, without sweep second                | ---                | ---     | ---     | ---     | ---     | ---     | ---     | 956.031 |
| 255            | 31.046               | Roue des heures  | Stundenrad   | Hour wheel   | ---                | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
| 255/1          | 31.046.06            | Roue des heures, montée  | Stundenrad, montiert   | Hour wheel, assembled  | 956.101            | 956.101 | ---     | ---     | 956.101 | 956.101 | ---     | 956.101 |
| 260            | 31.041               | Roue de minuterie  | Wechselrad   | Minute wheel   | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 405            | 51.020.21            | Tige de mise à l'heure, Ø filetage 0,90 mm                         | Stellwelle, Gewindedurchmesser 0,90 mm                         | Handsetting stem, thread diameter 0.90 mm                      | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 405/4          | 51.021               | Tige de mise à l'heure, partie mouvement                           | Stellwelle, Werkteil   | Handsetting stem, movement part                                | 955.101            | 955.101 | 955.101 | 955.101 | 955.401 | 955.401 | 955.401 | 955.401 |
| 407            | 31.121               | Pignon coulant   | Kupplungstrieb   | Sliding pinion   | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 435            | 51.050               | Bascule de pignon coulant  | Kupplungstriebhebel  | Yoke   | 956.112            | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 | 956.112 |
| 443/1          | 51.080.06            | Tirette, montée  | Winkelhebel, montiert  | Setting lever, assembled                                       | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 445            | 51.090               | Sautoir de tirette   | Winkelhebelraste   | Setting lever jumper   | 956.101            | 956.111 | 956.111 | 956.111 | 956.101 | 956.111 | 956.111 | 956.101 |
| 450            | 31.100               | Renvoi   | Zeigerstellrad   | Setting wheel  | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 462            | 10.062               | Pont de rouage de minuterie  | Wechselradbrücke   | Minute train bridge  | 956.101            | 956.101 | 956.121 | 956.121 | 956.101 | 956.101 | 956.121 | 956.101 |
| 549            | 81.185               | Clavette de tirette  | Klemmscheibe für Winkelhebel                                   | Setting lever spring-clip                                      | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 560            | 56.071               | Levier d'arrêt et interrupteur                                     | Stoppebel und Unterbrecher                                     | Stop lever and switch  | 956.101            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 2543           | 33.011               | Roue intermédiaire de quantième                                    | Datum-Zwischenrad  | Intermediate date wheel  | ---                | 956.111 | 956.111 | 956.111 | ---     | 956.111 | 956.111 | ---     |
| 2555           | 33.028               | Roue entraîneuse du calendrier                                     | Kalender-Mitnehmerrad  | Calendar driving wheel   | ---                | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
| 2556           | 33.020               | Roue entraîneuse de l'indicateur de quantième                      | Datumanzeiger-Mitnehmerrad                                     | Date indicator driving wheel                                   | ---                | 956.111 | ---     | ---     | ---     | 956.111 | ---     | ---     |
| 2557/1         | 91.440.22            | Indicateur de quantième, ouverture de guichet à 3h                 | Datumanzeiger, für Fenster bei 3 Uhr                           | Date indicator, for opening at 3 o'clock                       | ---                | 955.111 | 955.121 | 955.132 | ---     | 955.411 | 955.421 | ---     |
| 2561/1         | 91.441.42            | Indicateur du jour, pour ouverture rectangulaire horizontale à 3 h | Tagesanzeiger, für rechteckiges horizontales Fenster bei 3 Uhr | Day indicator, for horizontal rectangular opening at 3 o'clock | ---                | ---     | 955.121 | ---     | ---     | ---     | 955.421 | ---     |
| 2561/1         | 91.441.21            | Indicateur du jour, pour ouverture en arc de cercle à 12 h         | Tagesanzeiger, für bogenförmiges Fenster bei 12 Uhr            | Day indicator, for circular arc opening at 12 o'clock          | ---                | ---     | ---     | 955.132 | ---     | ---     | ---     | ---     |
| 2566           | 53.200               | Correcteur de quantième  | Datumkorrektor   | Date corrector   | ---                | 956.111 | ---     | ---     | ---     | 956.111 | ---     | ---     |
| 2567           | 53.201               | Correcteur des jours   | Tageskorrektor   | Day corrector  | ---                | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
| 2569           | 53.204               | Correcteur double  | Doppelkorrektor  | Double corrector   | ---                | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |

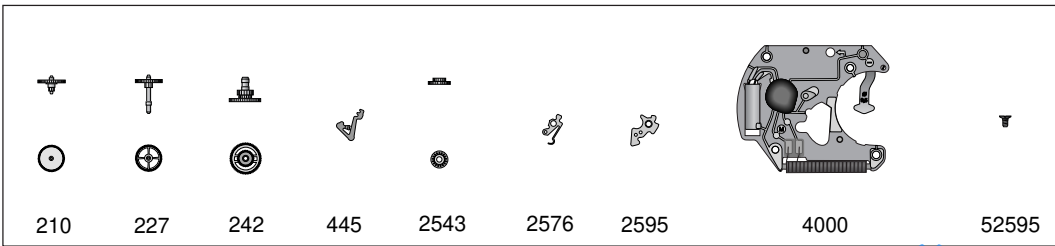
## Interchangeabilité – Auswechselbarkeit – Interchangeability

| No<br>Nr<br>No | No<br>Nr<br>CS<br>No | LISTE DES<br>FOURNITURES | BESTANDTEILE  | LIST OF<br>MATERIALS                             | Cal. – Kal. – Cal.                      |         |         |         |         |         |         |         |         |
|----------------|----------------------|--------------------------|---|--|---|---------|---------|---------|---------|---------|---------|---------|---------|
|                |                      |                          |   |  | 955.102                                 | 955.112 | 955.122 | 955.132 | 955.402 | 955.412 | 955.422 | 955.432 |         |
|                | 2570                 | 53.026                   | Commande du correcteur double   | Schalthebel für Doppelkorrektor                  | Double corrector operating lever        | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
|                | 2573                 | 63.032                   | Ressort du sautoir des jours  | Feder für Tagesraste                             | Day jumper spring                       | ---     | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
|                | 2576                 | 53.080                   | Sautoir de quantième  | Datumraste                                       | Date jumper                             | ---     | 955.112 | 955.112 | 955.112 | ---     | 955.112 | 955.112 | ---     |
|                | 2577                 | 53.081                   | Sautoir des jours   | Tagesraste                                       | Day jumper                              | ---     | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
|                | 2595                 | 13.111                   | Plaque de maintien du sautoir de quantième  | Halteplatte für Datumraste                       | Date jumper maintaining plate           | ---     | 956.101 | 956.101 | 956.101 | ---     | 956.101 | 956.101 | ---     |
|                | 2780                 | 83.171                   | Clavette de l'indicateur du jour  | Klemmscheibe für Tagesanzeiger                   | Day indicator spring-clip               | ---     | ---     | 2648    | 2648    | ---     | ---     | 2648    | ---     |
|                | 4000                 | 10.513                   | Module électronique   | Elektronik-Baugruppe                             | Electronic module                       | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.432 |
|                | 4021                 | 20.582                   | Stator  | Stator   | Stator                                  | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4022                 | 80.102                   | Entretoise du module électronique   | Zwischenstück für Elektronik-Baugruppe           | Electronic module distance piece        | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4038                 | 20.584                   | Ecran magnétique supérieur  | Oberer Magnetschirm                              | Upper magnetic screen                   | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 |
|                | 4046                 | 20.651                   | Isolateur de pile   | Isolation für Batterie                           | Battery insulator                       | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4211                 | 20.580                   | Rotor   | Rotor  | Rotor                                   | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
|                | 4233                 | 80.246                   | Rivet de stator   | Niete für Stator                                 | Rivet for stator                        | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
|                | 4407                 | 20.764                   | Bride de masse  | Massen-Bügel                                     | Earth connector                         | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4412                 | 10.601                   | Ressort de limitation de pile   | Begrenzungsfeder für Batterie                    | Battery limiting spring                 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4929                 | 20.570                   | Pile, H. 2,10 mm  | Batterie, H. 2,10 mm                             | Battery, H. 2.10 mm                     | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 4929/1               | 4929/1                   | Pile spéciale, H. 2,70 m  | Batterie, Spezial-Ausführung, H. 2,70 mm         | Battery, special, H. 2.70 mm            | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 | 955.101 |
|                | 5101                 | 10.020.01                | Vis de fixation   | Schraube für Werkbefestigung                     | Screw for case                          | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 |
|                | 5102                 | 10.020.02                | Vis de fixation, spéciale   | Schraube für Werkbefestigung, Spezial-Ausführung | Screw for case, special                 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 | 956.401 |
|                | 5110                 | 10.048.01                | Vis de pont de rouage   | Schraube für Räderwerkbrücke                     | Screw for train wheel bridge            | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
| 1)             | 5462                 | 10.062.01                | Vis de pont de rouage de minuterie  | Schraube für Wechselradbrücke                    | Screw for minute train bridge           | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 | 956.101 |
|                | 52567                | 53.201.01                | Vis de correcteur des jours   | Schraube für Tageskorrektor                      | Screw for day corrector                 | ---     | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
| 1)             | 52573                | 63.032.01                | Vis de ressort du sautoir des jours   | Schraube für Tagesrastefeder                     | Screw for day jumper spring             | ---     | ---     | 956.121 | 956.121 | ---     | ---     | 956.121 | ---     |
| 1)             | 52595                | 13.111.01                | Vis de plaque de maintien du sautoir de quantième   | Schraube für Halteplatte für Datumraste          | Screw for date jumper maintaining plate | ---     | 956.101 | 956.101 | 956.101 | ---     | 956.101 | 956.101 | ---     |
|                | 54000                | 10.513.01                | Vis de module électronique, longue  | Schraube für Elektronik-Baugruppe, lang          | Screw for electronic module, long       | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 |
|                | 54000'               | 10.513.02                | Vis de module électronique, courte  | Schraube für Elektronik-Baugruppe, kurz          | Screw for electronic module, short      | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 |
| 2)             | 54038                | 20.584.01                | Vis d'écran magnétique supérieur  | Schraube für oberen Magnetschirm                 | Screw for upper magnetic screen         | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 |
| 2)             | 54407                | 20.764.01                | Vis de bride de masse   | Schraube für Massen-Bügel                        | Screw for earth connector               | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 | 955.112 |
|                |                      |                          | * Voir plan de vis en page 14<br>Siehe Schraubenplan auf Seite 14<br>See screws plan on page 14 |  |   |         |         |         |         |         |         |         |         |

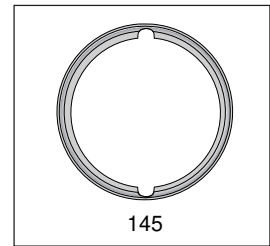
955.102 / 112 / 122 / 132 / 402 / 412 / 422 / 432



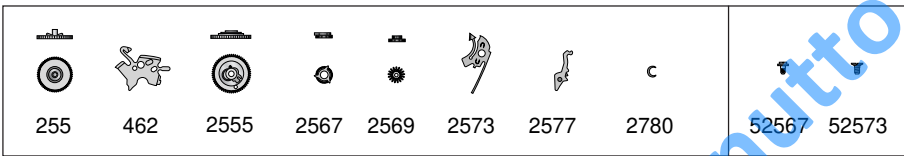
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955.122 955.132

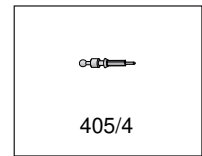
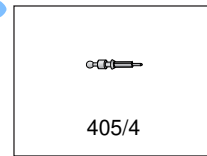


955.122 / 132 / 422



955.102 / 112  
955.122 955.132

955.402 / 412  
955.422 955.432



955.102 / 112

955.402 / 412 / 432

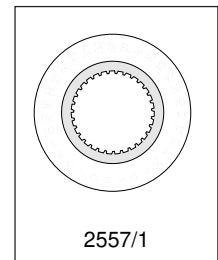
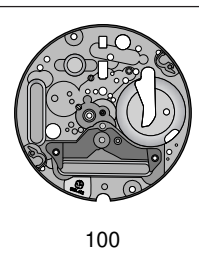
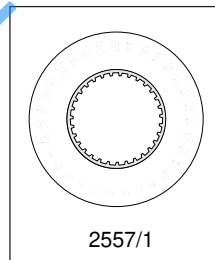
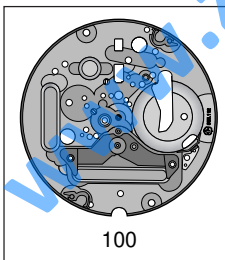
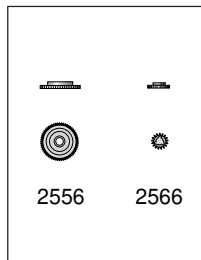
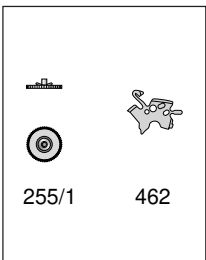
955.112 / 412

955.102 / 112

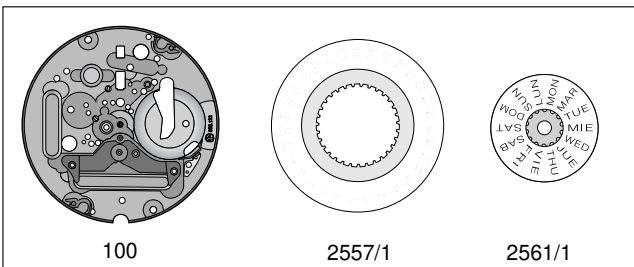
955.112

955.402 / 412

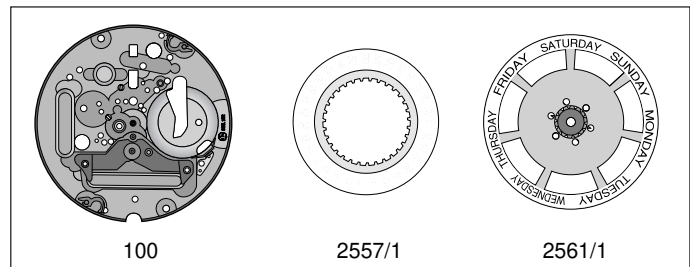
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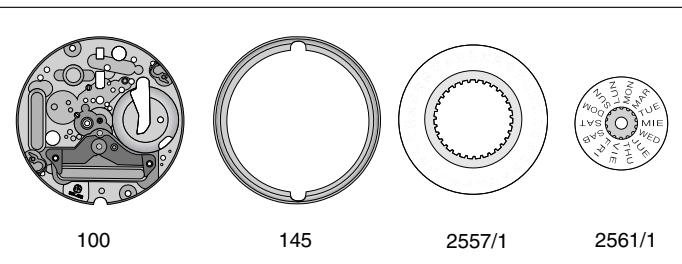
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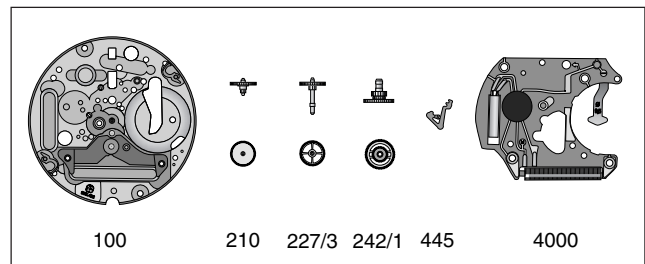
955.132



955.422



955.432



### Lubrification – Schmierung – Lubrication

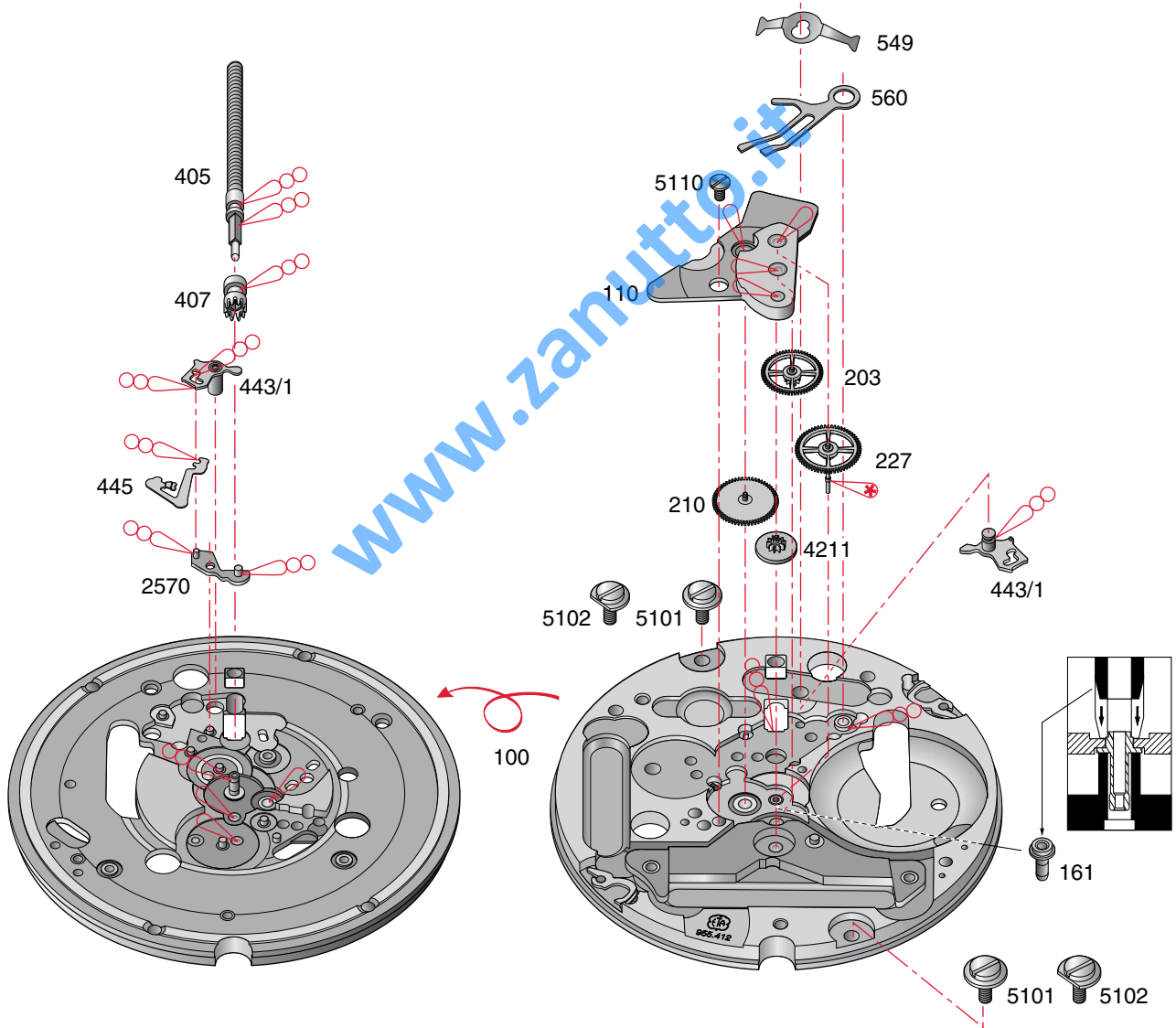
- |  |  |
|--|--|
| <p>Huile fine<br/>Dünnflüssiges Öl<br/>Fine oil</p> <p>Très faible lubrification<br/>Sehr kleine Menge<br/>Very little lubrication</p> <p>Huile épaisse à viscosité élevée ou graisse<br/>Dickflüssiges druckfestes Öl oder Fett<br/>Thick, pressure-resistant oil or grease</p> | <p><b>Moebius 9014</b><br/><b>Moebius 9034</b></p> <p><b>Moebius 9014</b></p> <p><b>Moebius D5</b></p> |
|--|--|

### Montage du mouvement de base (Liste des fournitures par ordre d'assemblage)

#### Zusammenstellen des Basiswerkes (Bestandteilliste in Montagereihenfolge)

#### Assembling of the basic movement (Parts listed in order of assembly)

|       |           |
|-------|-----------|
| 100   | 210       |
| 161   | 4211      |
| 407   | 227       |
| 405   | 203       |
| 2570  | 560       |
| 445   | 110       |
| 443/1 | 5110 (1x) |
| 549   |           |



**Montage du mécanisme de mise à l'heure  
et du mécanisme de calendrier**

(Liste des fournitures par ordre d'assemblage)

**Zusammenstellen des Zeigerwerkmechanismus  
und des Kalendermechanismus**

(Bestandteilliste in Montager Reihenfolge)


**Assembling of the handsetting  
and the calendar mechanism**


(Parts listed in order of assembly)


|      |            |
|------|------------|
| 242  | 2557/1     |
| 260  | 2556       |
| 450  | 2543       |
| 2566 | 2576       |
| 435  | 2595       |
| 462  | 52595 (1x) |
| 5462 | 255/1      |

**Lubrification – Schmierung – Lubrication**

Huile épaisse à viscosité élevée ou graisse

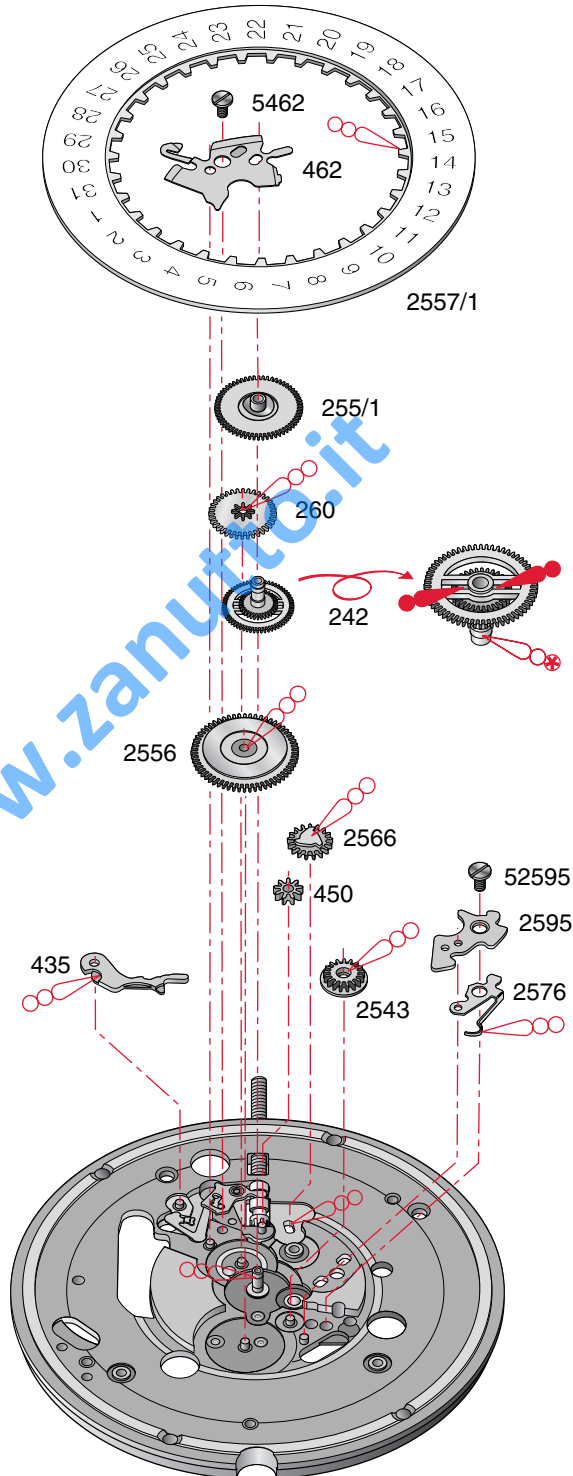
 Dickflüssiges druckfestes Öl oder Fett  
**Moebius D5**  
Thick, pressure-resistant oil or grease

 Très faible lubrification  
Sehr kleine Menge  
Very little lubrication  
**Moebius D5**

 Graisse  
Fett  
Grease  
**Moebius 9501  
Jismaa 124**

955.112 : 11 1/2'''

955.412 : 10 1/2'''



**Montage du mécanisme de mise à l'heure  
et du mécanisme de calendrier**

(Liste des fournitures par ordre d'assemblage)

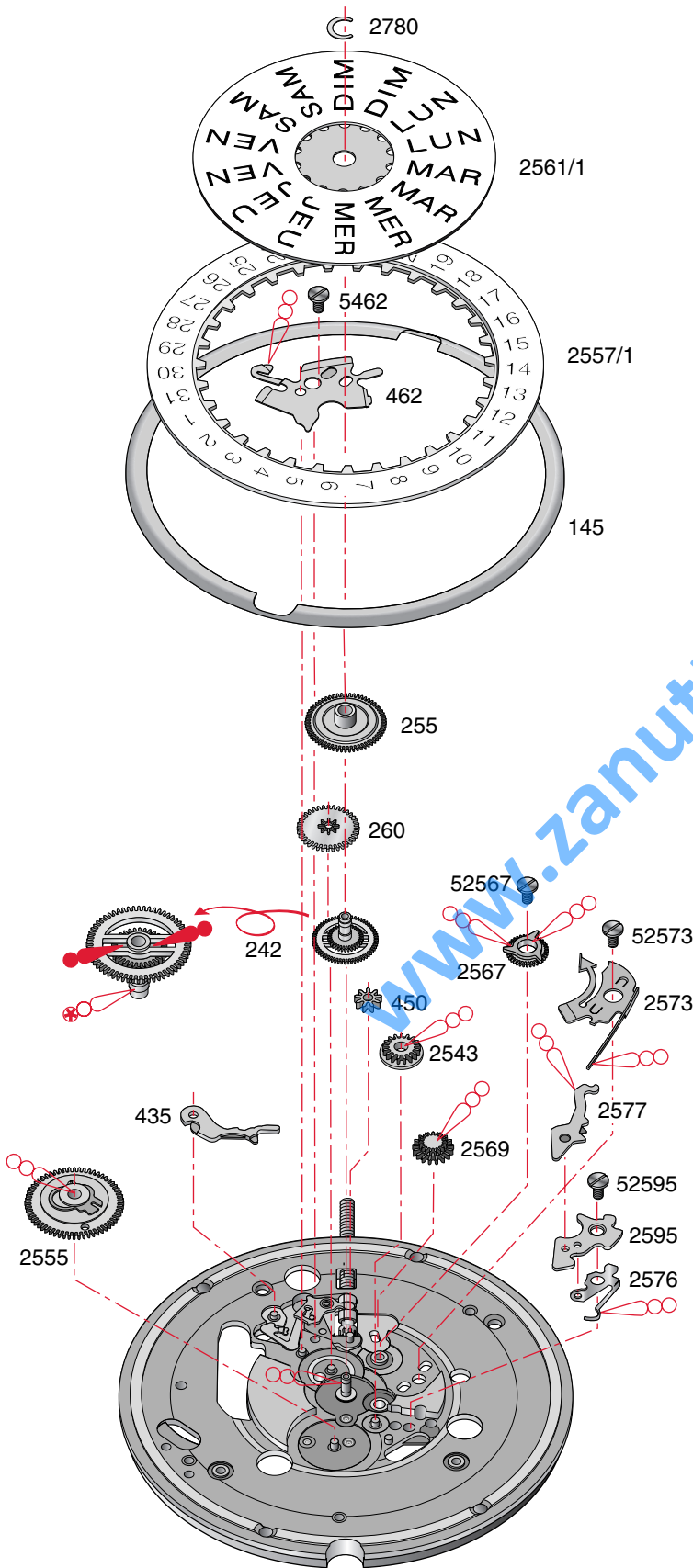
**Zusammenstellen des Zeigerwerkmechanismus  
und des Kalendermechanismus**

(Bestandteilliste in Montager Reihenfolge)

**Assembling of the handsetting  
and the calendar mechanism**

(Parts listed in order of assembly)

|        |            |
|--------|------------|
| 242    | 2576       |
| 260    | 2595       |
| 450    | 52595      |
| 2569   | 255        |
| 435    | 2573       |
| 462    | 52573 (1x) |
| 5462   | 2577       |
| 2557/1 | 2561/1     |
| 2555   | 2780       |
| 2543   |            |



955.122 : 11<sup>1</sup>/<sub>2</sub>'''

955.422 : 10<sup>1</sup>/<sub>2</sub>'''

**Lubrification - Schmierung - Lubrication**

Huile épaisse à viscosité élevée ou graisse

Dickflüssiges druckfestes **Moebius D5**  
Öl oder Fett

Thick, pressure-resistant oil or grease

Très faible lubrification

Sehr kleine Menge **Moebius D5**  
Very little lubrication

Graisse

**Moebius 9501**  
Fett **Jismaa 124**  
Grease

**Montage du mouvement de base  
et de la partie électronique**

(Liste des fournitures par ordre d'assemblage)

**Zusammenstellen des Basiswerkes  
und des elektronischen Teils**

(Bestandteilliste in Montager Reihenfolge)

**Assembling of the basic movement  
and the electronic part**

(Parts listed in order of assembly)

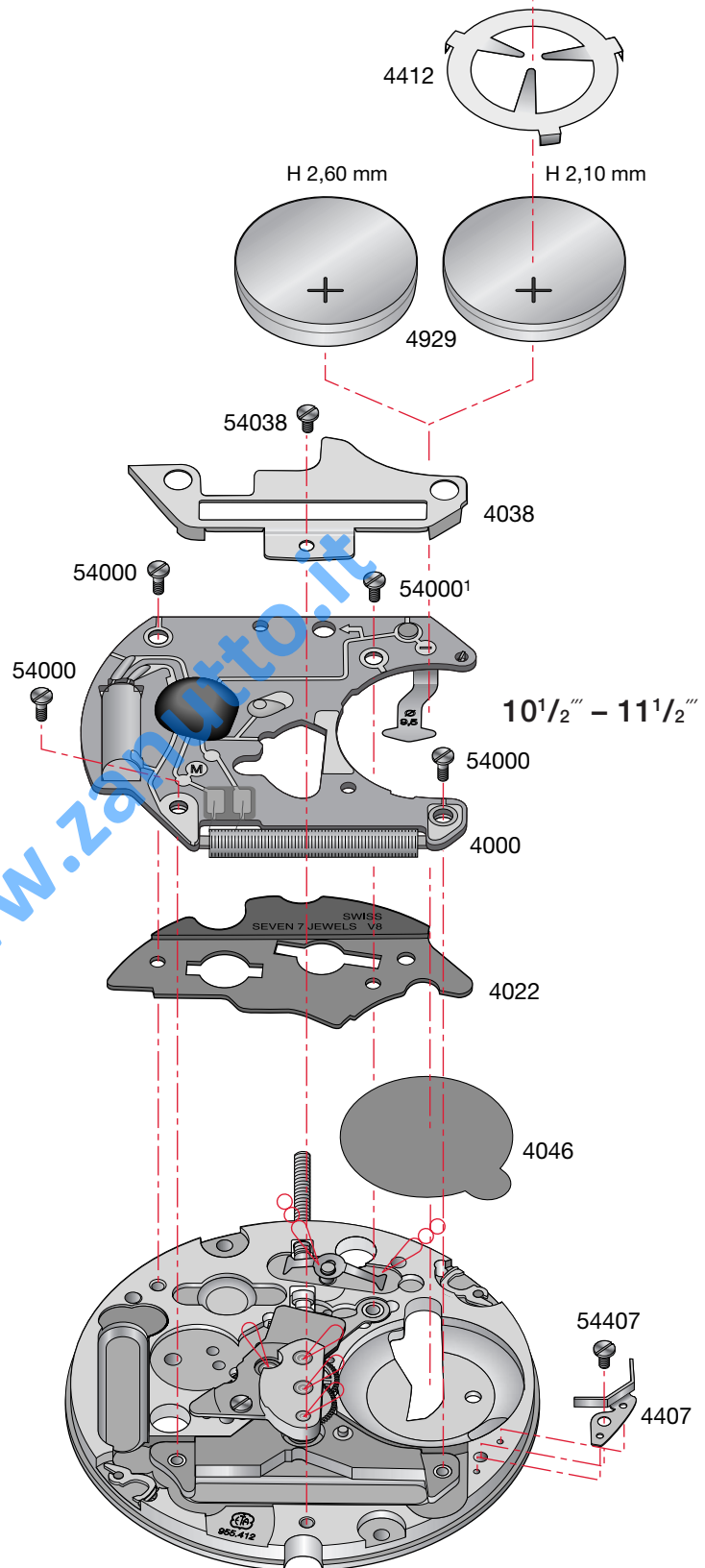
|            |                         |
|------------|-------------------------|
| 4407       | 54000 (3x)              |
| 54407 (1x) | 54000 <sup>1</sup> (1x) |
| 4022       | 4038                    |
| 4046       | 54038 (1x)              |
| 4000       | 4929                    |

**4412**



Nécessaire, si la sûreté entre le mouvement et le fond de la boîte est trop élevée.

Nur nötig, wenn der Abstand Werk-Gehäuseboden zu gross ist.

To be fitted when the clearance between the movement and the case back is too great.

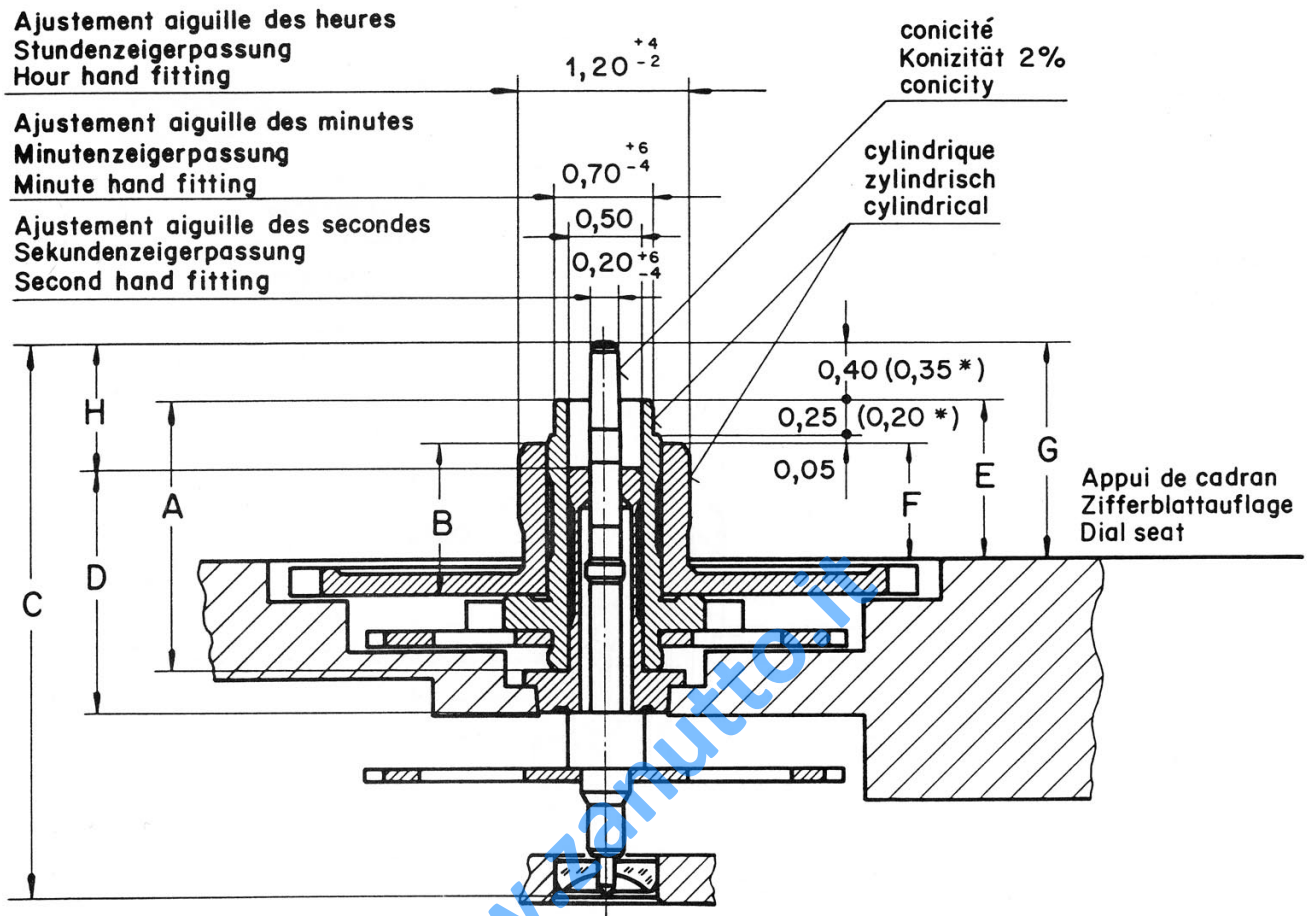


**Lubrification – Schmierung – Lubrication**

|   |  |                     |
|---|--|---------------------|
|  | Huile fine<br>Dünnflüssiges Öl<br>Fine oil   | <b>Moebius 9014</b> |
|   | Huile épaisse à viscosité élevée ou graisse<br>Dickflüssiges druckfestes Öl oder Fett<br>Thick, pressure-resistant oil or grease | <b>Moebius D5</b>   |



**Aiguillage – Zeigerwerkhöhe – Hand fitting height**  
 955.102 / 955.112 / 955.402 / 955.412

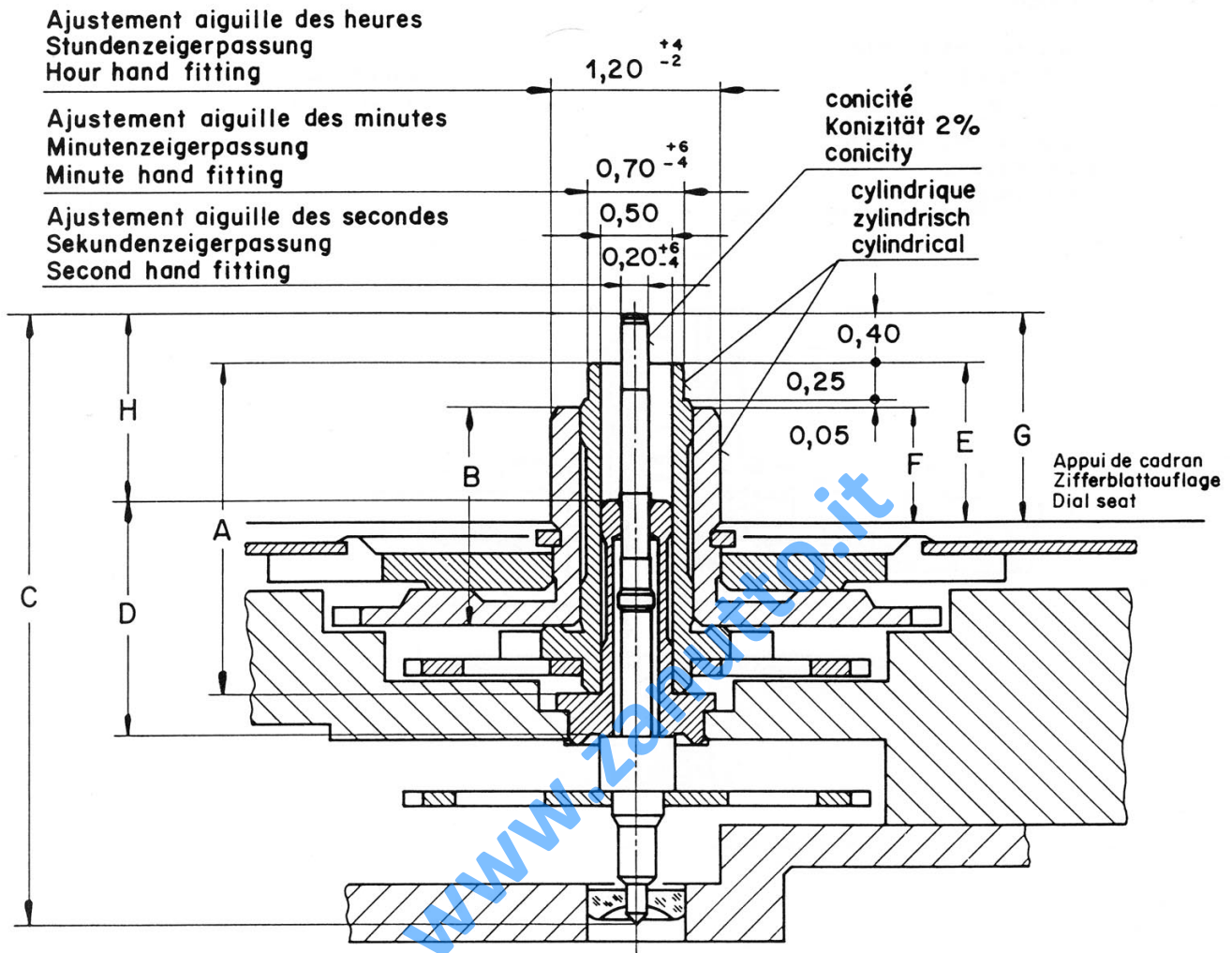


| Cal.<br>Kal.<br>Cal.                     | Aiguillage<br>Zeigerwerk-<br>höhe<br>Hand fitting<br>height | Longueur / Länge / Length (mm)              |  |  |   | Dépassement<br>Höhe über Zifferblattauflage<br>Height over dial seat |  |  | H    |
|--|---|---|--|--|---|--|--|--|------|
|  |   | A   | B  | C  | D   | E  | F  | G  |      |
|  |   | Chaussée<br>Minutenrohr<br>Cannon<br>pinion | Roue des<br>heures<br>Stundenrad<br>Hour wheel | Pignon des<br>secondes<br>Sekunden-<br>trieb<br>Second<br>wheel pinion | Tube de<br>centre<br>Zentrumrohr<br>Centre tube | Chaussée<br>Minutenrohr<br>Cannon<br>pinion                          | Roue des<br>heures<br>Stundenrad<br>Hour wheel | Pignon des<br>secondes<br>Sekunden-<br>trieb<br>Second<br>wheel pinion |      |
| 955.102<br>955.112<br>955.402<br>955.412 | réduit - niedrig<br>reduced*                                | 1,66  | 0,89   | 3,63   | 1,70  | 0,90   | 0,65   | 1,25   | 0,60 |
|  | 1<br>normal   | 1,88  | 1,06   | 3,88   | 1,70  | 1,10   | 0,80   | 1,50   | 0,85 |
|  | 3**   | 2,38  | 1,56   | 4,38   | 1,70  | 1,60   | 1,30   | 2,00   | 1,35 |
|  | 4**   | 2,63  | 1,81   | 4,63   | 1,70  | 1,85   | 1,55   | 2,25   | 1,60 |
|  | 5**   | 2,88  | 2,06   | 4,88   | 1,70  | 2,10   | 1,80   | 2,50   | 1,85 |

\* Pour aiguillage 0 (réduit), cadran épaisseur 0,30  
 Für Zeigerwerkhöhe 0 (niedrig), Zifferblattstärke 0,30  
 For hand fitting height 0 (reduced), dial thickness 0.30

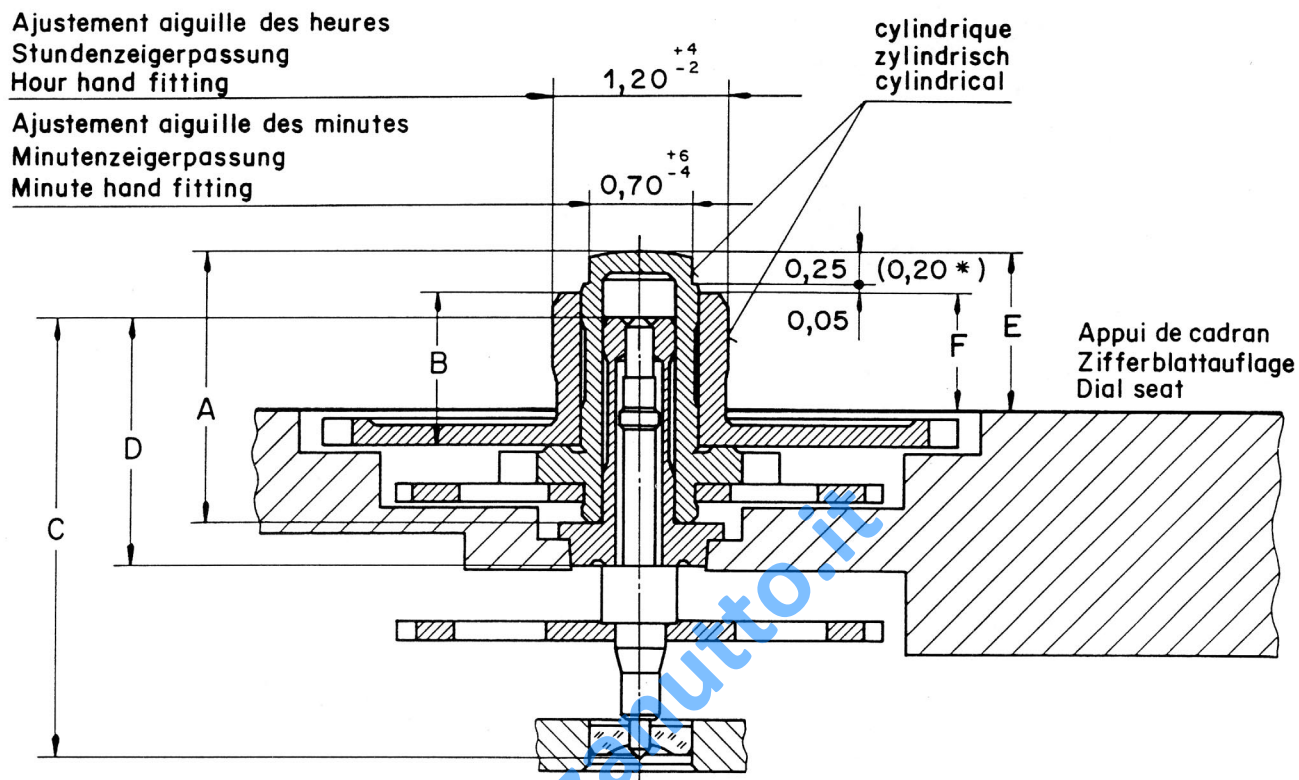
\*\* Livraison contre supplément de prix, délai sur demande  
 Lieferung gegen Aufpreis, Lieferfrist auf Anfrage  
 Delivery with surcharge, delivery schedule on demand

Aiguillage – Zeigerwerkhöhe – Hand fitting height  
 955.122 / 955.132 / 955.422



| Cal.<br>Kal.<br>Cal.          | Aiguillage<br>Zeigerwerk-<br>höhe<br>Hand fitting<br>height | Longueur / Länge / Length (mm)              |  |  |   | Dépassement<br>Höhe über Zifferblattauflage<br>Height over dial seat |  |  | H    |
|-------------------------------|---|---|--|--|---|--|--|--|------|
|                               |   | A   | B  | C  | D   | E  | F  | G  |      |
|                               |   | Chaussée<br>Minutenrohr<br>Cannon<br>pinion | Roue des<br>heures<br>Stundenrad<br>Hour wheel | Pignon des<br>secondes<br>Sekunden-<br>trieb<br>Second<br>wheel pinion | Tube de<br>centre<br>Zentrumrohr<br>Centre tube | Chaussée<br>Minutenrohr<br>Cannon<br>pinion                          | Roue des<br>heures<br>Stundenrad<br>Hour wheel | Pignon des<br>secondes<br>Sekunden-<br>trieb<br>Second<br>wheel pinion |      |
| 955.122<br>955.132<br>955.422 | 3<br>normal   | 2,38  | 1,56   | 4,38   | 1,70  | 1,10   | 0,80   | 1,50   | 1,35 |

## Aiguillage – Zeigerwerkhöhe – Hand fitting height 955.432



| Cal.<br>Kal.<br>Cal. | Aiguillage<br>Zeigerwerk-<br>höhe<br>Hand fitting<br>height | Longueur / Länge / Length (mm)           |  |   |  | Dépassement<br>Höhe über Zifferblattauflage<br>Height over dial seat |  |
|----------------------|---|--|--|---|--|--|--|
|                      |   | A  | B  | C   | D  | E  | F  |
|                      |   | Chaussée<br>Minutenrohr<br>Cannon pinion | Roue des<br>heures<br>Stundenrad<br>Hour wheel | Pignon des<br>secondes<br>Sekundentrieb<br>Second wheel<br>pinion | Tube de centre<br>Zentrumrohr<br>Centre tube | Chaussée<br>Minutenrohr<br>Cannon pinion                             | Roue des<br>heures<br>Stundenrad<br>Hour wheel |
| 955.432              | réduit – niedrig*<br>reduced                                | 1,66                                     | 0,89   | 3,03  | 1,70   | 0,90   | 0,65   |
|                      | 1<br>normal   | 1,88                                     | 1,06   | 3,03  | 1,70   | 1,10   | 0,80   |
|                      | 3**   | 2,38                                     | 1,56   | 3,03  | 1,70   | 1,60   | 1,30   |
|                      | 4**   | 2,63                                     | 1,81   | 3,03  | 1,70   | 1,85   | 1,55   |
|                      | 6**   | 3,13                                     | 2,31   | 3,03  | 1,70   | 2,35   | 2,05   |

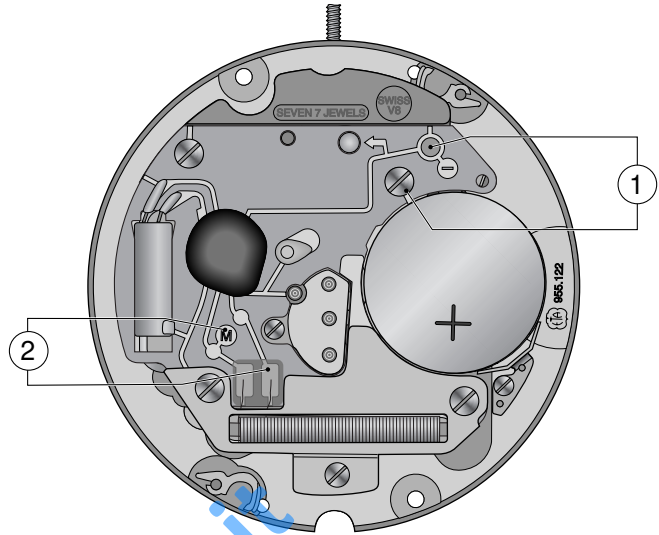
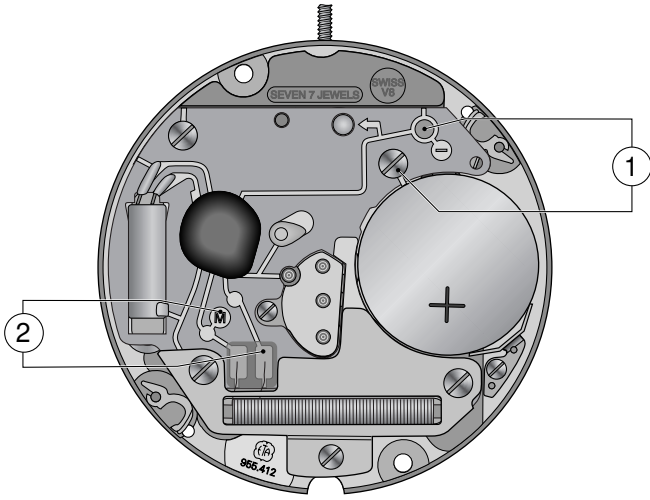
\* Pour aiguillage 0 (réduit), cadran épaisseur 0,30  
Für Zeigerwerkhöhe 0 (niedrig), Zifferblattdicke 0,30  
For hand fitting height 0 (reduced), dial thickness 0.30

\*\* Livraison contre supplément de prix, délai sur demande  
Lieferung gegen Aufpreis, Lieferfrist auf Anfrage  
Delivery with surcharge, delivery schedule on demand

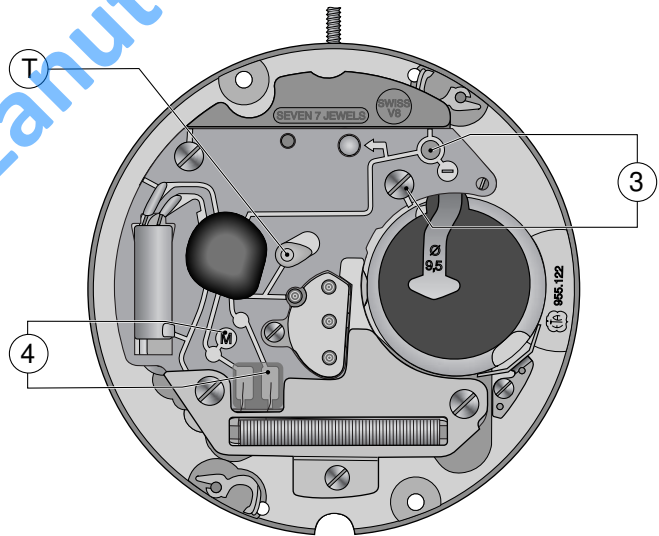
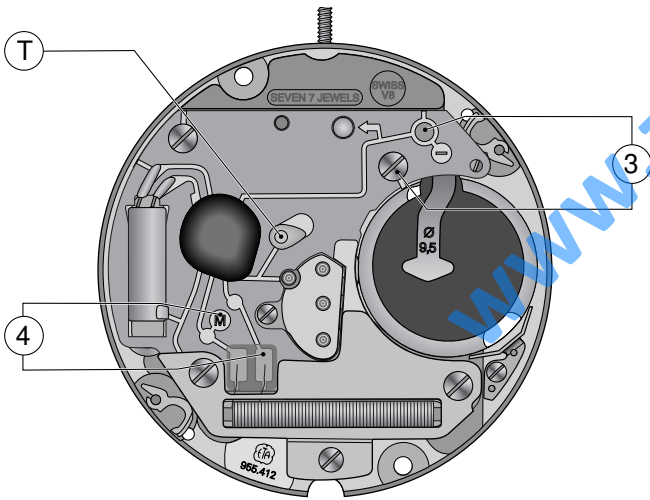
Contrôles électriques – Elektrische Kontrollen – Electrical tests

955.402  
955.412  
955.422  
955.432

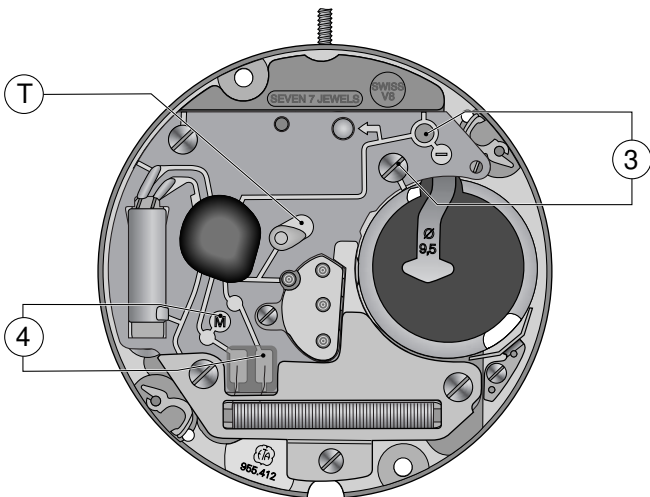
955.102  
955.112  
955.122  
955.132



955.402  
955.412  
955.422



955.432



## Contrôles électriques – Elektrische Kontrollen – Electrical tests

| Position<br>Messpunkt<br>Position | Echelle de mesure<br>Einstellung Messgerät<br>Setting of apparatus | Mesure<br>Messung<br>Measurement   | Contrôle<br>Kontrolle<br>Test   | Remarques<br>Bemerkungen<br>Remarks   |  |
|-----------------------------------|--|--|---|---|--|
| <b>1</b>                          | 2 V<br>(Ri ≥ 10 kΩ / V)  | 1,55 V   | Tension de la pile<br>Spannung der Batterie<br>Battery voltage  | Mesure avec pile.<br>Messung mit Batterie.<br>Measurement with battery.   |  |
| <b>2</b>                          | 1 V<br><br>(Ri ≥ 10 kΩ / V)  | L'aiguille du multimètre oscille en sens + et –.<br>Zeiger im Messgerät pulsiert im + und – Sinn.<br>Hand of the measuring apparatus oscillates in + and – direction.  | Impulsions à la sortie du circuit intégré:<br>Ausgangsimpulse am integrierten Schaltkreis:<br>Impulses at output of integrated circuit:<br><b>955.432</b>   <b>955.102/112/122/132</b><br><b>955.402/412/422</b><br><br>12 / min.   1 / s   | Mesure avec une pile contrôlée.<br>Messung mit kontrollierter Batterie.<br>Measurement with controlled battery.   |  |
| <b>3</b>                          | 2 V  | ≤ 1,30 V<br><b>955.432</b>   <b>955.102/112/122/132</b><br><b>955.402/412/422</b><br><br>Mettre en contact le point ⊕ et la piste ⊖.<br>Commande du moteur avec 16 pas/s.<br>⊕ Punkt mit der ⊖ Spur verbinden.<br>Motorantrieb mit 16 Schritten/S.<br><br>Connect ⊕ point with the ⊖ conductor.<br>Motor driven with 16 steps/s. | ≤ 1,30 V<br><b>955.102/112/122/132</b><br><b>955.402/412/422</b><br><br>Mettre en contact le point ⊕ et la piste ⊖.<br>Commande du moteur avec 8 pas/s à 1,55 V et 32 pas/s avec tension ≤ 1,30 V (E.O.L).<br>⊕ Punkt mit der ⊖ Spur verbinden. Motorantrieb mit 8 Schritten/S bei 1,55 V und 32 Schritten/S mit Spannung ≤ 1,30 V (E.O.L).<br><br>Connect ⊕ point with the ⊖ conductor.<br>Motor driven with 8 steps/s at 1,55 V and 32 steps/s with voltage ≤ 1.30 V (E.O.L). | Limite inférieure de la tension de fonctionnement<br><br>Untere Funktionsspannungsgrenze<br><br>Lower working-voltage limit   | Mesure sans pile, alimentation extérieure variable, en descendant de 1,55 V à l'arrêt du mouvement.<br><br>Messung ohne Batterie mit variabler Speisung von aussen, Spannung von 1,55 V reduzieren bis zum Stillstand des Werkes.<br><br>Measurement without battery, with variable external power supply, starting with 1.55 V, lower tension until movement stops. |
|                                   | 10 μA  | <b>955.432</b><br><br>≤ 0,70 μA  | <b>955.102/112/122/132</b><br><b>955.402/412/422</b><br><br>≤ 1,30 μA   | Consommation du mouvement<br>Stromaufnahme Uhrwerk<br>Consumption of movement   | Mesure sans pile, avec alimentation extérieure 1,55 V.<br>Messung ohne Batterie, mit Speisegerät 1,55 V.<br>Measurement without battery, with external power supply 1.55 V.  |
|                                   |  |  | Saut de 4 pas toutes les 4 sec. lorsque la tension d'alimentation < 1,30 V.<br>4-Schritte-Sprung alle 4 Sek. wenn Speisespannung < 1,30 V.<br>4 steps jump every 4 sec., when feed voltage < 1.30 V.  | E.O.L. Consommation supérieure à la valeur normale.<br>E.O.L. Stromaufnahme über Normalwert.<br>E.O.L. Consumption higher than in normal operation.                         | Mesure sans pile, avec tension d'alimentation < 1,30 V, Fonction E.O.L après ~ 2 min.<br>Messung ohne Batterie, mit Speisespannung < 1,30 V, E.O.L-Funktion nach ca. 2 Min.<br>Measurement without battery, with feed voltage < 1.30 V, E.O.L function after about 2 min.  |
|                                   |  | ≤ 0,5 μA   | Fonctionnement de l'interrupteur en pos. 3 de la tige de mise à l'heure.<br>Funktion des Stopphebels, Pos. 3 der Zeigerstellwelle.<br>Function of stop lever, pos. 3 of handsetting stem.   | Mesure sans pile, avec alimentation extérieure 1,55 V.<br>Messung ohne Batterie, mit Speisegerät 1,55 V.<br>Measurement without battery, with external power supply 1.55 V. |  |
| <b>4</b>                          | ● 10 kΩ<br>200 μA  | 1,3 – 1,8 kΩ<br>110 – 155 μA   | Continuité du bobinage<br>Zustand der Spule<br>Condition of coil  |   |  |

Ohmmètres avec tension de mesure supérieure à 0,40 V inappropriés, tension recommandée 0,20 V.  
● Ohmmeter mit Prüfspannung über 0,40 V ungeeignet, empfohlene Spannung 0,20 V.  
Ohmmeter with a test voltage higher than 0.40 V unsuitable, recommended voltage 0.20 V.

Température ambiante 20°C.  
Raumtemperatur 20°C.  
Ambient temperature 20°C.

[www.zanutto.it](http://www.zanutto.it)



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