

# Calibre 2030

Ø20.0mm  
Ht: 5.40mm  
Train: 28.800

- Automatic
- Centre Seconds
- Shock Proof
- 28 Jewels

## Base Calibre 2030

| Image                                                                               | Rolex No. | Description          |
|-------------------------------------------------------------------------------------|-----------|----------------------|
|    | 123       | Bridge               |
|    | 132       | Bridge               |
|    | 167       | Screw for bridge     |
|    | 4410      | Main plate           |
|  | 4411      | Barrel bridge        |
|  | 4412      | Train wheel bridge   |
|  | 4413      | Minute pinion bridge |

| Image                                                                                                                                                                   | Rolex No. | Description                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------|
|                                                                                        | 4414      | Pallet bridge                                                                    |
|                                                                                        | 4415      | Balance bridge                                                                   |
|                                                                                        | 4416      | Winding bridge                                                                   |
|                                                                                        | 4417      | Pillar for:<br>• Barrel bridge<br>• Train wheel bridge<br>• Minute pinion bridge |
|                                                                                        | 4419      | Mainspring, strength standard                                                    |
|                                                                                                                                                                         | 4420      | Mainspring, strength weak                                                        |
|                                                                                        | 4421      | Barrel arbor                                                                     |
|                                                                                      | 4422      | Barrel with arbor                                                                |
|                                                                                      | 4423      | Minute pinion with cannon pinion                                                 |
|   | 4424      | Great wheel                                                                      |
|   | 4425      | Third wheel                                                                      |
|   | 4426      | Second wheel                                                                     |



| Image                                                                                                                                                                   | Rolex No. | Description                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------|
|                                                                                        | 4428      | Minute pinion friction spring       |
|                                                                                        | 4429      | Escape wheel                        |
|                                                                                        | 4430      | Pallet fork                         |
|                                                                                        | 4431      | Pallet staff                        |
|                                                                                        | 4432      | Balance with flat hairspring, timed |
|                                                                                        | 4433      | Balance staff                       |
|       | 4434      | Roller                              |
|                                                                                       | 4435      | Hairspring support                  |
|                                                                                      | 4436      | Ring for hairspring support         |
|   | 4437      | Regulator                           |
|                                                                                      | 4437-1    | Spring-clip for regulator           |
|                                                                                      | 4438      | Winding stem                        |
|                                                                                      | 4439      | Winding pinion                      |
|                                                                                                                                                                         |           |                                     |

| Image                                                                                                                                                               | Rolex No. | Description                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------|
|                                                                                    | 4442      | Friction spring for crown wheel |
|                                                                                    | 4443      | Intermediate crown wheel        |
|   | 4444      | Wig-wag pinion                  |
|                                                                                    | 4445      | Ratchet wheel                   |
|                                                                                    | 4446      | Click                           |
|                                                                                    | 4447      | Spring for click                |
|                                                                                    | 4448      | Setting lever                   |
|                                                                                    | 4449      | Spring for setting lever        |
|                                                                                  | 4450      | Jumper for setting lever        |
|                                                                                  | 4451      | Yoke for sliding pinion         |
|                                                                                  | 4452      | Spring for yoke                 |
|                                                                                  | 4453      | Setting wheel                   |
|                                                                                  | 4454      | Intermediate setting wheel      |
|                                                                                  | 4455      | Minute wheel                    |

| Image                                                                                                                                                                   | Rolex No. | Description                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------|
|                                                                                        | 4457      | Cannon pinion                      |
|       | 4458      | Hour wheel                         |
|                                                                                        | 4459      | Plate for balance stop spring      |
|                                                                                        | 4460      | Balance stop spring                |
|                                                                                        | 4461      | Crown wheel core                   |
|                                                                                        | 4465      | Friction spring for hour wheel     |
|                                                                                        | 4471      | Automatic device upper bridge      |
|                                                                                       | 4472      | Automatic device lower bridge      |
|   | 4473      | Bearing pad for oscillating weight |
|                                                                                      | 4474      | Oscillating weight                 |
|                                                                                      | 4475      | Automatic device module            |

| Image                                                                               | Rolex No. | Description                                                                          |
|-------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|
|    | 6100      | Jewel for centre wheel-upper                                                         |
|    | 6101      | Jewel for centre wheel-lower                                                         |
|    | 6102      | Jewel for:<br>• Third wheel-upper<br>• Second wheel-upper                            |
|    | 6103      | Jewel for:<br>• Third wheel-lower<br>• Second wheel-lower                            |
|    | 6140      | Jewel for oscillating weight-lower                                                   |
|    | 6141      | Jewel for reversing wheel-upper                                                      |
|    | 6142      | Jewel for reversing wheel-lower                                                      |
|    | 6143      | Jewel for driving wheel for<br>ratchet wheel-upper /lower                            |
|  | 6190      | Bush for barrel-upper                                                                |
|  | 6191      | Bush for center second pinion                                                        |
|  | 54411     | Screw for:<br>• Barrel bridge<br>• Train wheel bridge, low head                      |
|  | 54411-1   | Screw for:<br>• Barrel bridge<br>• Train wheel bridge<br>• Balance bridge, high head |
|  | 54413     | Screw for minute pinion bridge                                                       |
|  | 54414     | Screw for pallet bridge                                                              |

| Image                                                                                                                                                                   | Rolex No. | Description                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|
|       | 4477      | Pinion for oscillating weight                                                      |
|                                                                                        | 4478      | Spring-clip for oscillating weight                                                 |
|       | 4479      | Reversing wheel, mounted                                                           |
|        | 4480      | Driving wheel for ratchet wheel                                                    |
|                                                                                         | 4481      | Enlargement ring                                                                   |
|   | 4490      | Shock-absorber for balance-upper                                                   |
|   | 4491      | Shock-absorber for balance-lower                                                   |
|                                                                                      | 4492      | In-setting for balance-upper / lower                                               |
|                                                                                      | 4493      | Capewel for:<br>• Balance-upper /lower<br>• Capjewel for escape wheel-upper /lower |
|                                                                                      | 4494      | Spring for in setting for balance-upper /lower                                     |
|   | 4495      | In setting for escape wheel-upper /lower                                           |

| Image                                                                               | Rolex No. | Description                                        |
|-------------------------------------------------------------------------------------|-----------|----------------------------------------------------|
|    | 54435     | Screw for hair-spring support                      |
|    | 54445     | Screw for ratchet wheel                            |
|    | 54446     | Screw for click                                    |
|    | 54449     | Screw for setting lever spring                     |
|    | 54450     | Screw for setting lever jumper                     |
|    | 54459     | Screw for plate for balance stop spring            |
|    | 54471     | Screw for automatic device upper bridge, low head  |
|    | 54471-1   | Screw for automatic device upper bridge, high head |
|  | 54472     | Screw for automatic device lower bridge            |
|  | 54499     | Screw for dial                                     |
|  | 54500     | Set of screws                                      |
|  | 95016     | Jewel for pallet fork-upper /lower                 |
|                                                                                     |           |                                                    |

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# **The Practical**

## **Guide To Rolex Oyster™**

### **Cases And Movements**

- *Practical Hints And Tips Covering Rolex Movement And Case Repair*
- *Calibre 1530 Series Information Including Notes*
- *Calibre 2030 Series Information Including Notes*
- *Calibre 2130 Series Information Including Notes*
- *Calibre 3035 Series Information Including Notes*
- *Exhaustive Case Number And Case Parts Cross-Reference Listing*



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And Case Repairs

Page 3      Calibre 1530 Series Information With  
Practical Repair Notes

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Practical Repair Notes

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Practical Notes

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Practical Repair Notes

Page 7      Exhaustive Cross-Reference Listing Of  
Rolex Case Numbers And Case Parts

# General Rolex Notes

- Regulation of the timing rate on most Rolex calibres is accomplished by means of Microstella balance screws. When regulating the rate it is essential that the two opposing screws be adjusted identically or the balance will be thrown out of poise.
- The Rolex factory specification for variation of rate on all modern calibres is one minute a month, or two seconds per day.
- Always remove the mainspring from the barrel on Rolex automatic watches. The bridle weld is frequently broken and this cannot be discovered unless the mainspring is removed. Lubricate the inside walls of the barrel with Molybdenum Disulfide grease before replacing the spring.
- When reassembling the automatic winding device, be certain to check for proper endshake of the reversing gears and ratchet drive wheel. The endshake should be minimal but the wheels should rotate freely. If the endshake is insufficient the watch will be difficult to wind manually.
- When replacing a major part such as a barrel bridge or a rotor, don't dispose of the defective parts. Many are now available on a trade-in basis only.
- The reversing gears (purple wheels in auto device), escape wheel, pallet fork, and fourth wheel should be immersed in Moebius Fix-O-Drop for at least two minutes prior to reassembly. This provides an epilamé coating which prevents the spread of oil. This is particularly important for

the reversing wheels as they will not function properly if oil reaches the pawl fingers.

- When reassembling the reversing wheels of the newer calibres it is necessary to oil only the pivots.
- The black substance found on the escape wheels of newer models is a specially deposited graphite lubricant. When reassembling after cleaning, be certain to lubricate the escape wheel teeth sparingly with Moebius 9415 grease.
- Complete screw sets are available for all new calibres and should be kept in stock. The most commonly used are 1575, 2035, 2135, and 3055.
- The case tube should be replaced if any sign of wear is evident. When replacing the tube, lightly grease the threads with KT-22. Don't use epoxy or any type of thread locking compound. The case threads are very delicate and easily damaged.
- A 5310 case tube is required for certain models. The case thread portion is 1 mm shorter than on a 5300 tube. Turn 1 mm off a 5300 tube to use it in place of a 5310 tube.
- Rolex acrylic crystals with a date magnifier have part numbers above 100. All acrylic crystals without a date magnifier have a number below 100.
- The case number is located between the case lugs at the 12:00 position. Case parts should be ordered using this number. The serial number is between the case lugs at 6:00. The number inside the case back doesn't always correspond to the case number.
- Brass tweezers should be used to remove and replace rotor gibs. This prevents unnecessary damage to the plates.

# Rolex Calibre 1530

| Calibre  | Base Calibre | Frequency  | Diameter | Height  | Number of<br>Jewels | First Year of<br>Manufacture |
|----------|--------------|------------|----------|---------|---------------------|------------------------------|
| 1520     | 1530         | 19,800 bph | 28.50 mm | 5.75 mm | 26                  | 1963                         |
| 1525     | 1530         | 19,800 bph | 28.50 mm | 6.30 mm | 26                  | 1965                         |
| 1530     | -----        | 18,000 bph | 28.50 mm | 5.75 mm | 26                  | 1957                         |
| 1535     | 1530         | 18,000 bph | 28.50 mm | 6.30 mm | 26                  | 1957                         |
| 1555     | 1530         | 18,000 bph | 28.50 mm | 7.03 mm | 26                  | 1959                         |
| 1556     | 1530         | 19,800 bph | 28.50 mm | 7.03 mm | 26                  | 1965                         |
| 1560     | 1530         | 18,000 bph | 28.50 mm | 5.75 mm | 26                  | 1965                         |
| 1565     | 1530         | 18,000 bph | 28.50 mm | 6.30 mm | 26                  | 1959                         |
| 1565 GMT | 1530         | 18,000 bph | 28.50 mm | 6.47 mm | 26                  | 1962                         |
| 1570     | 1530         | 19,800 bph | 28.50 mm | 5.75 mm | 26                  | 1965                         |
| 1575     | 1530         | 19,800 bph | 28.50 mm | 6.30 mm | 26                  | 1965                         |
| 1575 GMT | 1530         | 19,800 bph | 28.50 mm | 6.47 mm | 26                  | 1965                         |
| 1580     | 1530         | 19,800 bph | 28.50 mm | 5.75 mm | 26                  | 1963                         |

## 1500 Series Notes:

- When ordering balance parts it is necessary to provide a detailed description of the stud holder and upper jewel seat to obtain the correct parts. Many variations in production occurred across calibres.
- Extra care should be taken when estimating repair charges on these calibres. It is very important to ensure that the arbor bearing in the barrel bridge is not worn causing the ratchet wheel to cut into the bridge. This wear causes the barrel to bind in the leaves of the center wheel pinion.
- A beryllium-bronze bushing is available to repair the barrel bridge. To ensure accuracy, bore the barrel arbor hole in a lathe using a slide rest and face plate. The hole should be bored 0.03 mm smaller than the outside diameter of the bushing and opened to 0.01 mm smaller than the bushing using a smoothing broach with plenty of oil. Lightly countersink the hole on both sides to de-burr.
- The barrel bridge can be purchased from Rolex with an exchange for a special price.

# Rolex Calibre 2030

| Calibre | Base Calibre | Frequency  | Diameter | Height  | Number of<br>Jewels | First Year of<br>Manufacture |
|---------|--------------|------------|----------|---------|---------------------|------------------------------|
| 2030    | -----        | 28,800 bph | 20.00 mm | 5.40 mm | 28                  | 1970                         |
| 2035    | 2030         | 28,800 bph | 20.00 mm | 5.83 mm | 28                  | 1970                         |

## *2030 Series Notes:*

- Calibres 2030 and 2035 are unusual in the Rolex product line in that they include a magnetic dampening system for the second hand. The center seconds pinion is magnetic and its attraction to the pure iron jewel bushing of the minute pinion suppresses the free-play of the second hand. Although the wheel is magnetic, the watch can be demagnetized using ordinary methods. It is recommended to use nonmagnetic tweezers during the disassembly and assembly process.
- Several production series of these calibres were equipped with durochron pallet forks which have been known to cause binding in certain situations. The durochron forks are nonmagnetic and can be identified if the fork cannot be picked up with a magnet. Rolex recommends that the fork be exchanged with a steel fork which is supplied as a spare part.
- The balance is fitted with a Greiner collet (no split) which cannot be removed except at the factory. Therefore, if the balance staff is damaged, the entire balance must be exchanged for a replacement balance at a special price.
- For proper operation of the sliding pinion (small wheel that engages the ratchet wheel when manually winding), grease the lower pivot with KT-22 and the upper pivot with Moebius 9010.
- Calibre 2035 (calendar model) has two different diameters of calendar wheels. Be certain to measure the outside diameter of the wheel when ordering.

# Rolex Calibre 2130

| Calibre | Base Calibre | Frequency  | Diameter | Height  | Number of<br>Jewels | First Year of<br>Manufacture |
|---------|--------------|------------|----------|---------|---------------------|------------------------------|
| 2130    | -----        | 28,800 bph | 20.00 mm | 5.40 mm | 29                  | 1983                         |
| 2135    | 2130         | 28,800 bph | 20.00 mm | 5.90 mm | 29                  | 1983                         |

## *2130 Series Notes:*

- Very little clearance exists between the Microstella nuts and the head of the screw that clamps the balance spring bridle. Before attempting to regulate, check for sufficient clearance. If the regulation cannot be made, move the balance spring longitudinally in its holder to affect the rate.
- The 2130 series is equipped with two Microstella nuts giving 1.8 seconds per day correction per division of the Microstella Key.
- The endshake of the rotor should be minimal (0.03 mm or less). Rotor axle spring clips are available in 0.135 mm and 0.150 mm thicknesses to compensate. If the rotor endshake is not within this range, the rotor can come in contact with the inside of the case back and there is an increased risk of shock damage to the rotor axle.
- If the calendar of the 2135 calibre is changing two days at a time, check the date finger which operates atop the date drive wheel. If the date finger has only one column, then replace the date finger with part #2135-623 and the date drive wheel with part #2135-624.
- Many production runs of the 2130 series movements used a two-piece set lever. The set lever axle has a gold screw in its end. Numerous problems have occurred due to the design of this part, the most common being the axle working loose from the body of the set lever. A newly designed set lever is available and is completely interchangeable with the old one.
- Although the dials for the 2030 series and the 2130 series appear to be interchangeable, the dial must have side slots at both the 8:00 and 11:00 positions to fit calibre 2135.

# Rolex Calibre 3035

| Calibre | Base Calibre | Frequency  | Diameter | Height  | Number of<br>Jewels | First Year of<br>Manufacture |
|---------|--------------|------------|----------|---------|---------------------|------------------------------|
| 3035    | -----        | 28,800 bph | 28.50 mm | 6.35 mm | 27                  | 1977                         |
| 3055    | 3035         | 28,800 bph | 28.50 mm | 7.11 mm | 27                  | 1977                         |
| 3075    | 3035         | 28,800 bph | 28.50 mm | 6.35 mm | 27                  | 1981                         |
| 3085    | 3035         | 28,800 bph | 28.50 mm | 7.20 mm | 27                  | >1984                        |

## 3035 Series Notes:

- The 3035 series balance has four Microstella timing screws. Two of the opposing screws have large heads and two have small heads. The small-headed screws change the rate by one second per day for each division of the Microstella key, and the large heads change the rate by two seconds per day for each division of the Microstella key.
- When fitting the dial on the 3035 series movements, it is important to drive the dial foot screws very tight. The screws have a tendency to work loose which causes difficulty when attempting to decase the movement.
- The endshake of the rotor should be minimal (0.04 mm max.). Rotor axle spring clips are available in 0.135 mm, 0.150 mm, 0.165 mm, and 0.180 mm thickness to compensate. If the rotor endshake is not within this range, the rotor can come in contact with the inside of the case back, and there is an increased risk of shock damage to the rotor axle.
- Observe the operation of the calendar mechanism of calibre 3055. If the day or date jumps too far, increase the tension of the respective jumper spring.
- The hour wheel on calibre 3055 must not have an endshake which exceeds 0.03 mm. Dial washers are available in 0.02 mm, 0.03 mm, 0.04 mm, and 0.05 mm thickness to limit endshake.
- The jumping hour module of calibre 3085 is heavily lubricated. Observe the amount of lubrication before cleaning. It need not be disassembled to clean.

# Rolex Case Parts Listing

|        |                                  |                                            |                                          |                                 |
|--------|----------------------------------|--------------------------------------------|------------------------------------------|---------------------------------|
| 895    | Crown: 6"-7" A<br>Tube: 6"-7"    | Crystal Number: BP 19.9<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die:<br>Lower Die:        |
| 913    | Crown: 8 3/4"<br>Tube: 8 3/4"    | Crystal Number: BP 19.3<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die:<br>Lower Die:        |
| 920    | Crown: 6"<br>Tube: 6"            | Crystal Number: BP 19.6<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die:<br>Lower Die:        |
| 951    | Crown: 6"<br>Tube: 6"            | Crystal Number: BP 29.2<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die:<br>Lower Die:        |
| 978    | Crown: 8 3/4"<br>Tube: 8 3/4"    | Crystal Number: BP 25.2<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die:<br>Lower Die:        |
| 1002   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1003   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1004-3 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1005   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1006   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1007   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1008   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-106<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 68 |
| 1008   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-56<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 68 |
| 1009   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1010   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1011   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:   | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |



|        |                                  |                                          |                                          |                                 |
|--------|----------------------------------|------------------------------------------|------------------------------------------|---------------------------------|
| 1012   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-29<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1013   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-29<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1014   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 68 |
| 1014   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-310-56<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 68 |
| 1016-0 | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-22<br>Crystal Gasket: | Back Gasket: 29-317-10<br>Bezel Gasket:  | Upper Die: 40B<br>Lower Die: 67 |
| 1018-0 | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-21<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 62 |
| 1019-0 | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-32<br>Crystal Gasket: | Back Gasket: 29-325-10<br>Bezel Gasket:  | Upper Die: 48A<br>Lower Die: 67 |
| 1022   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1023   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1024   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 68 |
| 1024   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-310-56<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 68 |
| 1025   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 68 |
| 1025   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-310-56<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 68 |
| 1026-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1027-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1028-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1029-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1030   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 1031-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |

|        |                                  |                                           |                                          |                                 |
|--------|----------------------------------|-------------------------------------------|------------------------------------------|---------------------------------|
| 1035-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-290-8<br>Bezel Gasket:   | Upper Die: 428<br>Lower Die: 63 |
| 1035-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 428<br>Lower Die: 63 |
| 1036-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-290-8<br>Bezel Gasket:   | Upper Die: 428<br>Lower Die: 63 |
| 1036-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 428<br>Lower Die: 63 |
| 1038   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 428<br>Lower Die: 68 |
| 1038   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-310-56<br>Bezel Gasket:  | Upper Die: 428<br>Lower Die: 68 |
| 1039   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-290-8<br>Bezel Gasket:   | Upper Die: 428<br>Lower Die: 63 |
| 1039   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 428<br>Lower Die: 63 |
| 1500-0 | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1500-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1501-0 | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1501-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1502   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1503-3 | Crown: 24-600-8<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1503-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1504   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1505   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1506-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1507   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |

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| 1508-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1509-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1510   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1511-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1512-3 | Crown: 24-600-8<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1512-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1513   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1514   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1530   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-317-8<br>Bezel Gasket:   | Upper Die: 40A<br>Lower Die: 71 |
| 1550   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 68 |
| 1550   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-310-56<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 68 |
| 1600   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1601   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1602   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1603-0 | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1604   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1605   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1607   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 1610   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |

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| 1610   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1611   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-118<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1625-3 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-317-10<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 67 |
| 1625-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-117<br>Crystal Gasket:             | Back Gasket: 29-293-106<br>Bezel Gasket:         | Upper Die: 46B<br>Lower Die: 60 |
| 1630   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-317-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 71 |
| 1655   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-116<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 41A<br>Lower Die: 67 |
| 1665   | Crown: 24-700-0<br>Tube: 24-7000 | Crystal Number: 25-39<br>Crystal Gasket:              | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 48A<br>Lower Die: 67 |
| 1665   | Crown: 24-703-0<br>Tube: 24-7030 | Crystal Number: 25-39<br>Crystal Gasket:              | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 48A<br>Lower Die: 67 |
| 1675   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-116<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 50A<br>Lower Die: 67 |
| 1675   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-116<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 50A<br>Lower Die: 67 |
| 1680   | Crown: 24-700-0<br>Tube: 24-7000 | Crystal Number: 25-127<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |
| 1680   | Crown: 24-703-0<br>Tube: 24-7030 | Crystal Number: 25-127<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |
| 1802   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1803   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1804   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1805   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1806   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1807   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1808-6 | Crown: 24-600-6<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |

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| 1809-8 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1810   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1811   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1812-6 | Crown: 24-600-6<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1813-8 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1814   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1815   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 1831   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-317-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 69 |
| 5008   | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 64 |
| 5500-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 63 |
| 5501-3 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 63 |
| 5502   | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-13<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 63 |
| 5504-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 63 |
| 5505-3 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 63 |
| 5506-1 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 63 |
| 5508-0 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-16<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket:         | Upper Die: 41B<br>Lower Die: 61 |
| 5510   | Crown: 24-800-0<br>Tube: 24-8000   | Crystal Number: 25-17<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:                    | Upper Die: 41B<br>Lower Die: 67 |
| 5512-0 | Crown: 24-700-0<br>Tube: 24-7000   | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |
| 5512-0 | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |

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| 5513-0 | Crown: 24-700-0<br>Tube: 24-7000   | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |
| 5513-0 | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket: 29-325-10<br>Bezel Gasket: 29-317-8 | Upper Die: 50A<br>Lower Die: 67 |
| 5516-1 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-13<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 62 |
| 5518-0 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-22<br>Crystal Gasket:  | Back Gasket: 29-317-10<br>Bezel Gasket:          | Upper Die: 40B<br>Lower Die: 67 |
| 5520-5 | Crown: 24-530-8<br>Tube: 24-5310   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket:         | Upper Die: 42B<br>Lower Die: 68 |
| 5520-5 | Crown: 24-530-8<br>Tube: 24-5310   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-310-56<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 68 |
| 5552-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 63 |
| 5590-7 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 42B<br>Lower Die: 63 |
| 5700 N | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 64 |
| 5700-0 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket:         | Upper Die: 46B<br>Lower Die: 68 |
| 5701 N | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 46B<br>Lower Die: 68 |
| 5701-3 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket:         | Upper Die: 46B<br>Lower Die: 68 |
| 6238-0 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6239   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6240-0 | Crown: 24-700-0<br>Tube: 24-7000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6241   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6262   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6263   | Crown: 24-700-0<br>Tube: 24-7000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |
| 6263   | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 68 |

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| 6264   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 68 |
| 6265   | Crown: 24-700-0<br>Tube: 24-7000   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 68 |
| 6265   | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 68 |
| 6406-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-100<br>Crystal Gasket: | Back Gasket: 29-192-86<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 6410-0 | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-4<br>Crystal Gasket:   | Back Gasket: 29-192-86<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 6411-0 | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-4<br>Crystal Gasket:   | Back Gasket: 29-192-86<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 6418-1 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-5<br>Crystal Gasket:   | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 44A<br>Lower Die: 64 |
| 6420   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6421   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6422   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6422   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:            | Upper Die: 42B<br>Lower Die: 63 |
| 6423   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6423   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:            | Upper Die: 42B<br>Lower Die: 63 |
| 6424-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 68 |
| 6425-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 68 |
| 6426   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 62 |
| 6427   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 62 |
| 6429   | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 62 |
| 6430   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-48<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |

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| 6431   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-48<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6432   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6444-0 | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-9<br>Crystal Gasket:   | Back Gasket: 29-265-106<br>Bezel Gasket: | Upper Die: 43B<br>Lower Die: 64 |
| 6466   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6480   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 6494   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-108<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6498   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-113<br>Crystal Gasket: | Back Gasket:<br>Bezel Gasket:            | Upper Die: 40A<br>Lower Die: 68 |
| 6500   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 61 |
| 6502   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 61 |
| 6503   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6504   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6505   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6506   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-1<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45A<br>Lower Die: 65 |
| 6507   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6508   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6509   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6510   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-110<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 61 |
| 6511   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-110<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 61 |
| 6512   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-14<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:            | Upper Die: 46B<br>Lower Die: 63 |



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| 6513   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6514   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6515   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-1<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45A<br>Lower Die: 65 |
| 6516   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6517   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6518   | Crown: 24-600-0<br>Tube: 24-6000 | Crystal Number: 25-108<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 61 |
| 6519   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6520   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6521   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6522   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-1<br>Crystal Gasket:   | Back Gasket: 29-182-84<br>Bezel Gasket: | Upper Die: 45A<br>Lower Die: 66 |
| 6523   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-1<br>Crystal Gasket:   | Back Gasket: 29-182-84<br>Bezel Gasket: | Upper Die: 45A<br>Lower Die: 66 |
| 6524-C | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6524   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6525   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-1<br>Crystal Gasket:   | Back Gasket: 29-182-84<br>Bezel Gasket: | Upper Die: 45A<br>Lower Die: 66 |
| 6526   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6527   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6528   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6529-S | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6530   | Crown: 24-600-8<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 46B<br>Lower Die: 61 |

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| 6531-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6532   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 63 |
| 6533   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6534   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 63 |
| 6535   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 63 |
| 6536/1 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-16<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 41B<br>Lower Die: 60 |
| 6536   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-17<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 41B<br>Lower Die: 60 |
| 6537   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 63 |
| 6538a  | Crown: 24-800-*<br>Tube: 24-8000 | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 41B<br>Lower Die: 67 |
| 6538   | Crown: 24-800-*<br>Tube: 24-8000 | Crystal Number: 25-17<br>Crystal Gasket:  | Back Gasket: 29-293-106<br>Bezel Gasket: | Upper Die: 41B<br>Lower Die: 67 |
| 6540   | Crown: 24-800-*<br>Tube: 24-8000 | Crystal Number: 25-19<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:            | Upper Die: 41B<br>Lower Die: 67 |
| 6541   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-16<br>Crystal Gasket:  | Back Gasket: 29-325-10<br>Bezel Gasket:  | Upper Die: 41B<br>Lower Die: 67 |
| 6542   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-116<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 41A<br>Lower Die: 61 |
| 6543   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-16<br>Crystal Gasket:  | Back Gasket:<br>Bezel Gasket:            | Upper Die: 41B<br>Lower Die: 67 |
| 6544-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6545-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6546   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6547   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6548   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |

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| 6549   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6551   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6552   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 43B<br>Lower Die: 63 |
| 6553-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6554   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6555-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6556   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 43B<br>Lower Die: 61 |
| 6557-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6558-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6558   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 61 |
| 6559-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6559   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-242-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6564   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6565   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6566   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6567   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6569   | Crown: 24-530-*<br>Tube: 24-5300 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6571   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6580   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 61 |

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| 6581 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6582 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6583 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6584 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6585 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6586 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6587 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 61 |
| 6590 | Crown: 24-530-*<br>Tube: 24-5000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 63 |
| 6592 | Crown: 24-530-*<br>Tube: 24-5000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 63 |
| 6593 | Crown: 24-530-*<br>Tube: 24-5000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 42B<br>Lower Die 63 |
| 6594 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-13<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die 46B<br>Lower Die 52 |
| 6598 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40A<br>Lower Die 50 |
| 6599 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40A<br>Lower Die 60 |
| 6602 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 46B<br>Lower Die 60 |
| 6604 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-113<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40A<br>Lower Die 60 |
| 6605 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-113<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40A<br>Lower Die 60 |
| 6609 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 46B<br>Lower Die 60 |
| 6610 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-22<br>Crystal Gasket:  | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40B<br>Lower Die 60 |
| 6611 | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die 40A<br>Lower Die 60 |

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| 6612   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 6613   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-114<br>Crystal Gasket: | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 6614   | Crown: 24-530-*<br>Tube: 24-5000 | Crystal Number: 25-21<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 62 |
| 6615-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6616-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6617   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6618   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6619   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6620   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6621   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6622-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6623   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6624   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6625   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6626-9 | Crown: 24-530-9<br>Tube: 24-5300 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 64 |
| 6627   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6628-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6629   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6630-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |

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| 6631   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6632-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6633   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6634   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-12<br>Crystal Gasket:  | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 42B<br>Lower Die: 62 |
| 6635   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6636-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6638-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6639-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6646   | Crown: 24-600-*<br>Tube: 24-6000 | Crystal Number: 25-117<br>Crystal Gasket: | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 63 |
| 6694   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-108<br>Crystal Gasket: | Back Gasket: 29-287-105<br>Bezel Gasket: | Upper Die: 42B<br>Lower Die: 63 |
| 6700   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6701   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6702   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6703   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6704   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6705-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-101<br>Crystal Gasket: | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 65 |
| 6706-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6707-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |
| 6710   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 65 |

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| 6711-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6712   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6713-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6715-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6717-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6718   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6719   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6720-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6721   | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6723   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6724   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-3<br>Crystal Gasket:  | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6744-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6745-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6747-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6748   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6749   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6751   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6753-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6754   | Crown: 24-530-0<br>Tube: 24-5300 | Crystal Number: 25-30<br>Crystal Gasket: | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |

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| 6757   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6771   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-30<br>Crystal Gasket:  | Back Gasket: 29-240-76<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6800-8 | Crown: 24-530-8<br>Tube: 24-5310   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6801-8 | Crown: 24-530-8<br>Tube: 24-5310   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6802   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6802   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6803-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6804   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6806-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6807-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-3<br>Crystal Gasket:   | Back Gasket: 29-213-66<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 65 |
| 6824-0 | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6824-3 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6824-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6825   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6827-3 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6827-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6828   | Crown: 24-530-0<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6829-8 | Crown: 24-530-8<br>Tube: 24-5300   | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 6830-8 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |



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| 6831-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6832-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6833-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6835-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6839-8 | Crown: 24-530-8<br>Tube: 24-5300 | Crystal Number: 25-104<br>Crystal Gasket: | Back Gasket: 29-243-86<br>Bezel Gasket:  | Upper Die: 43A<br>Lower Die: 64 |
| 6900   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6901   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6902   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6903   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6904   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6905   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6906   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6907   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6913   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-124<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6914-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6916   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6917   | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6919-0 | Crown: 24-530-0<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6920-8 | Crown: 24-530-8<br>Tube: 24-5310 | Crystal Number: 25-129<br>Crystal Gasket: | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |

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| 6921   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-129<br>Crystal Gasket:          | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6924-0 | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-129<br>Crystal Gasket:          | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6927   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-129<br>Crystal Gasket:          | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6929   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-129<br>Crystal Gasket:          | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 6933   | Crown: 24-530-0<br>Tube: 24-5310   | Crystal Number: 25-129<br>Crystal Gasket:          | Back Gasket: 29-210-126<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 65 |
| 14000  | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14010  | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14060  | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-322-10<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14203  | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14208  | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14233  | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14238  | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-286<br>Crystal Gasket: 29-286-1 | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 72 |
| 14270  | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:   | Upper Die: 40A<br>Lower Die: 72 |
| 15000  | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |
| 15003  | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |
| 15007  | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |
| 15008  | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |
| 15010  | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |
| 15017  | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:          | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 46B<br>Lower Die: 64 |

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| 15018 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 15037 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 15038 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 15053 | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 15148 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-76<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 15200 | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15203 | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15210 | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15223 | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15237 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15238 | Crown: 24-530-8<br>Tube: 24-5330-8 | Crystal Number: 25-286-C<br>Crystal Gasket: 29-286-1  | Back Gasket: 29-295-645<br>Bezel Gasket: | Upper Die: 468<br>Lower Die: 72 |
| 15505 | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-145<br>Crystal Gasket:             | Back Gasket: 29-292-85<br>Bezel Gasket:  | Upper Die: 468<br>Lower Die: 64 |
| 16000 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16003 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16008 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16009 | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16013 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16014 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |
| 16018 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 60 |

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| 16019 | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16030 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16058 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16078 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16200 | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16220 | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16233 | Crown: 24-603-8<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16234 | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16238 | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16248 | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16248 | Crown: 24-603-8<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16250 | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16253 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-135<br>Crystal Gasket:             | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16258 | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket:          | Upper Die: 40A<br>Lower Die: 60 |
| 16263 | Crown: 24-603-8<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16264 | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-CI<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 72 |
| 16520 | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-295<br>Crystal Gasket: 29-295-1    | Back Gasket: 29-337-8<br>Bezel Gasket:           | Upper Die: 40A<br>Lower Die: 73 |
| 16523 | Crown: 24-703-8<br>Tube: 24-7030-0 | Crystal Number: 25-295<br>Crystal Gasket: 29-295-1    | Back Gasket: 29-337-8<br>Bezel Gasket: 29-328-12 | Upper Die: 40A<br>Lower Die: 73 |
| 16528 | Crown: 24-703-8<br>Tube: 24-7030-8 | Crystal Number: 25-295<br>Crystal Gasket: 29-295-1    | Back Gasket: 29-337-8<br>Bezel Gasket: 29-328-12 | Upper Die: 40A<br>Lower Die: 73 |

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|------------|------------------------------------|-------------------------------------------------------|--------------------------------------------------|---------------------------------|
| 16550      | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 48A<br>Lower Die: 72 |
| 16570      | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-337-8<br>Bezel Gasket: 29-337-8  | Upper Die: 40A<br>Lower Die: 72 |
| 16600      | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-285<br>Crystal Gasket: 29-285-1    | Back Gasket: 29-317-10<br>Bezel Gasket:          | Upper Die: 46A<br>Lower Die: 72 |
| 16610      | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-337-8<br>Bezel Gasket: 29-337-8  | Upper Die: 48A<br>Lower Die: 72 |
| 16613      | Crown: 24-703-8<br>Tube: 24-7030-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-337-8<br>Bezel Gasket: 29-337-8  | Upper Die: 48A<br>Lower Die: 72 |
| 16618      | Crown: 24-703-8<br>Tube: 24-7030-8 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-337-8<br>Bezel Gasket: 29-337-8  | Upper Die: 48A<br>Lower Die: 72 |
| 16660      | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-285<br>Crystal Gasket: 29-285-1    | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 46A<br>Lower Die: 72 |
| 16700      | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-322-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16710      | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-322-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16713      | Crown: 24-603-8<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-322-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16718      | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-322-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16750      | Crown: 24-530-0<br>Tube: 24-5330-0 | Crystal Number: 25-116<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 50A<br>Lower Die: 72 |
| 16753      | Crown: 24-530-8<br>Tube: 24-5330-0 | Crystal Number: 25-116<br>Crystal Gasket:             | Back Gasket: 29-325-10<br>Bezel Gasket:          | Upper Die: 50A<br>Lower Die: 72 |
| 16758 SARU | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16758      | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16760      | Crown: 24-603-0<br>Tube: 24-5330-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16800      | Crown: 24-703-0<br>Tube: 24-7030-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16803      | Crown: 24-703-8<br>Tube: 24-7030-0 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |
| 16808      | Crown: 24-703-8<br>Tube: 24-7030-8 | Crystal Number: 25-295-C2<br>Crystal Gasket: 29-295-2 | Back Gasket: 29-325-10<br>Bezel Gasket: 29-337-8 | Upper Die: 48A<br>Lower Die: 72 |

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|-----------|------------------------------------|-------------------------------------------------------|-----------------------------------------|---------------------------------|
| 17000     | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-317-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 71 |
| 17013     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-317-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 71 |
| 17014     | Crown: 24-600-0<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-317-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 71 |
| 18026     | Crown: 24-600-6<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18028     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18029     | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18038     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18039 BIC | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18039     | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18046     | Crown: 24-600-6<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18048     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18049     | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18078     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18079     | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18129 BIC | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 60 |
| 18206     | Crown: 24-603-6<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18208     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18238     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18239     | Crown: 24-603-9<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |

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| 18248     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18249     | Crown: 24-603-9<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18308     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18346     | Crown: 24-603-6<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18348     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18349 BIC | Crown: 24-603-9<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18388     | Crown: 24-603-8<br>Tube: 24-5330-8 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 18389     | Crown: 24-603-9<br>Tube: 24-5330-9 | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-310-8<br>Bezel Gasket:  | Upper Die: 40A<br>Lower Die: 73 |
| 19018 N   | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 71 |
| 19018     | Crown: 24-600-8<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 71 |
| 19019 N   | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 71 |
| 19019     | Crown: 24-600-9<br>Tube: 24-6000   | Crystal Number: 25-295-C1<br>Crystal Gasket: 29-295-1 | Back Gasket: 29-302-86<br>Bezel Gasket: | Upper Die: 40A<br>Lower Die: 71 |
| 67180     | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67183     | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67187     | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67188     | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67193     | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67194     | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |
| 67197     | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1    | Back Gasket: 29-210-74<br>Bezel Gasket: | Upper Die: 45B<br>Lower Die: 66 |

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| 67198 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1   | Back Gasket: 29-210-74<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 67230 | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1   | Back Gasket: 29-210-74<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 67233 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1   | Back Gasket: 29-210-74<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 67243 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-192<br>Crystal Gasket: 29-192-1   | Back Gasket: 29-210-74<br>Bezel Gasket:  | Upper Die: 45B<br>Lower Die: 66 |
| 67480 | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 67483 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 67488 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 67513 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 67514 | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 67518 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-246<br>Crystal Gasket: 29-246-1   | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68240 | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68243 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68248 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68273 | Crown: 24-530-8<br>Tube: 23-5330-0 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68274 | Crown: 24-530-0<br>Tube: 23-5330-0 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68278 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68279 | Crown: 24-530-9<br>Tube: 23-5330-9 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68288 | Crown: 24-530-8<br>Tube: 23-5330-8 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |
| 68289 | Crown: 24-530-9<br>Tube: 23-5330-9 | Crystal Number: 25-246-C<br>Crystal Gasket: 29-246-1 | Back Gasket: 29-245-105<br>Bezel Gasket: | Upper Die: 43A<br>Lower Die: 64 |



[illegible]



|             |                                                                         |                                                      |                                          |                                 |
|-------------|-------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------|---------------------------------|
| 69173 A     | GASKET 27-5590<br>Crown: 24-530-8<br>Tube: 23-5330-0<br>GASKET 29-05300 | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69174 A     | Crown: 24-530-0<br>Tube: 23-5330-0                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69178 A     | Crown: 24-530-8<br>Tube: 23-5330-8                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69178       | Crown: 24-530-8<br>Tube: 23-5330-8                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-205-105<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 70 |
| 69179 A     | Crown: 24-530-9<br>Tube: 23-5330-9                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69179 A BIC | Crown: 24-530-9<br>Tube: 23-5330-9                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69179       | Crown: 24-530-9<br>Tube: 23-5330-9                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-205-105<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 70 |
| 69190 A     | Crown: 24-530-0<br>Tube: 23-5330-0                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69198 A     | Crown: 24-530-8<br>Tube: 23-5330-8                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69240 A     | Crown: 24-530-0<br>Tube: 23-5330-0                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69278 A     | Crown: 24-530-8<br>Tube: 23-5330-8                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69278       | Crown: 24-530-8<br>Tube: 23-5330-8                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-205-105<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 70 |
| 69279 A     | Crown: 24-530-9<br>Tube: 23-5330-9                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-214-64<br>Bezel Gasket:  | Upper Die: 46A<br>Lower Die: 70 |
| 69279       | Crown: 24-530-9<br>Tube: 23-5330-9                                      | Crystal Number: 25-206-C<br>Crystal Gasket: 29-206-1 | Back Gasket: 29-205-105<br>Bezel Gasket: | Upper Die: 46A<br>Lower Die: 70 |

## This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

## This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

## This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be from a notebook or a set of legal pads. There is no handwriting or other markings on the page.

Please direct correspondence to:

Stanley McMahan  
Precision Repair Services  
PO Box 31047  
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## Technical information

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CALIBRE 2030

CALIBRE 2035





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**In order to improve the functional reliability of this calibre, we have made the following alterations to the movement in the course of the last few years:**

- Narrowed the angle between the hairspring holder and the regulator from 85 to 45°, see page 10, fig. 10.
- Shortened the radius of the hairspring from 2.30 to 2.10 – 2.17 mm.
- Narrowed the space between the regulator pins from 0.06 to 0.04 mm, tolerance  $\pm 0.01$  mm.
- Replaced the durochron pallet fork by a steel one with shorter horns and 0.01 mm narrower pallets.



## CALIBRE 2030 - Basic calibre

|                                                |                |                              |
|------------------------------------------------|----------------|------------------------------|
| Automatic                                      | Shock-absorber | Centre second                |
| Magnetic breaking of the sweep second pinion   |                | Stop-second device           |
| Clinergic escapement with 21 teeth wheel       |                | Adjustable hairspring holder |
| Spirofin regulator with 2 adjustable ruby pins |                | Annular balance              |
| Fine rating by means of Microstella key        |                | Flat hairspring              |

|                                                     |          |
|-----------------------------------------------------|----------|
| - External diameter                                 | 20.00 mm |
| - Case-fitting diameter                             | 19.70 mm |
| - Overall height including automatic winding device | 5.40 mm  |
| - Number of jewels                                  | 28       |
| - Frequency 4 Hz, i.e. vibrations per hour          | 28'800   |
| - Box of spare parts                                | No. 50   |

Movement seen from above, with automatic winding device (Fig. 1) and without it (Fig. 2).



Fig. 1

Scale:  
1,5 : 1



Fig. 2



## DISMANTLING THE MOVEMENT \*

The use of non-magnetic tweezers is recommended.

1. Take out the two low-headed screws (No. 54471) and the high-headed screw (No. 54471-1), and remove the complete rotor (No. 4475).
2. Press the stud of the setting lever (No. 4448) and pull out the winding stem; push the casing clamps in their recess and take the movement out of the case. Remove the hands and the dial, then refit the winding stem.
3. Slowly let down the mainspring. If necessary, finish letting it down by giving the ratchet-wheel  $1/8$  of a turn with a screwdriver in order to release the wig-wag pinion. Then hold back the click and, with the screwdriver still in the slot of the screw, unwind the spring completely.
4. Check the balance and the hairspring. If it has not been done already, bend the end of the hairspring which projects beyond the hairspring holder (Fig. 3), so that its initial length can easily be found again when the movement is reassembled. Untighten the screw (No. 54435) of the hairspring holder (No. 4435). Remove the balance cock and the balance.
5. Check the endshake of the wheels and dismantle the movement.

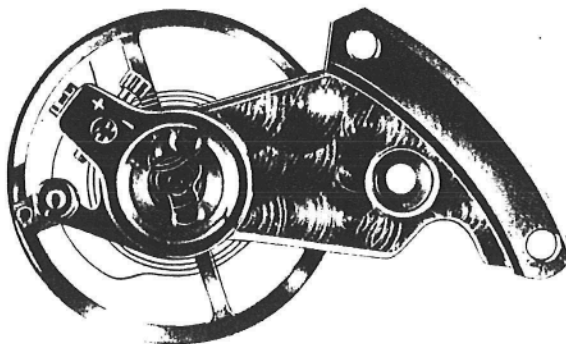


Fig. 3

6. Take the barrel (No. 4422) to pieces. Do not hesitate to change the mainspring (No. 4419 or 4420) if it is no longer in good condition.

The stop-spring plate (No. 4459) and its screw (No. 54459) may be left in position, as well as the setting lever and its pressure spring.

\* It is advisable to give the movement a preliminary washing before taking it to pieces. This first washing can be done with the sprung balance, the barrel and even the automatic winding device left in place. This procedure makes it easier for the watchmaker to judge the condition of the components of the movement. After the movement has been completely taken to pieces and the parts needing replacement have been changed, a second washing is necessary before the movement is reassembled.



### Magnetic braking of the sweep-second pinion

A magnetized ring is driven onto the sweep-second pinion (No. 4427) and causes it to be attracted by the jewelled bush of pure iron which is driven into the train-wheel bridge (Fig. 4).

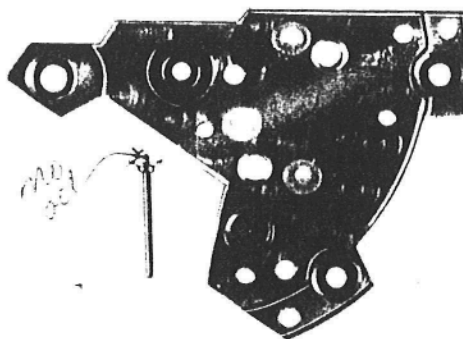


Fig. 4

In spite of the presence of this little permanent magnet, the watch can be demagnetized without any special precautions. Nevertheless, the apparatus used for checking magnetism will always indicate a slight magnetic field, but this will not affect the working of the watch.

### Minute pinion

The minute pinion (No. 4423) is braked by the friction spring (No. 4428) in order to suppress the free play of the minute hand (Fig. 5).

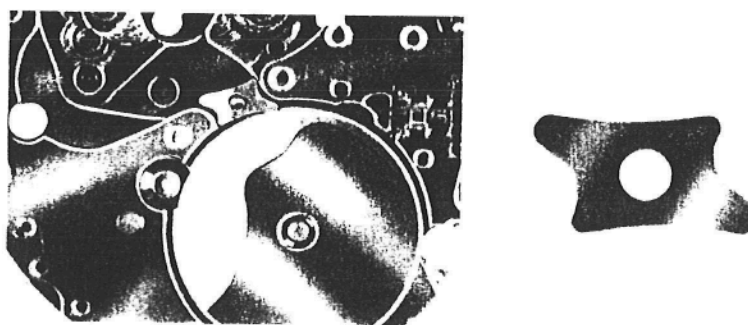


Fig. 5

### Escapement

The clinergic escapement (Fig. 6), which is used for high frequencies has very slight clearances. The escapement functions must be set very accurately.

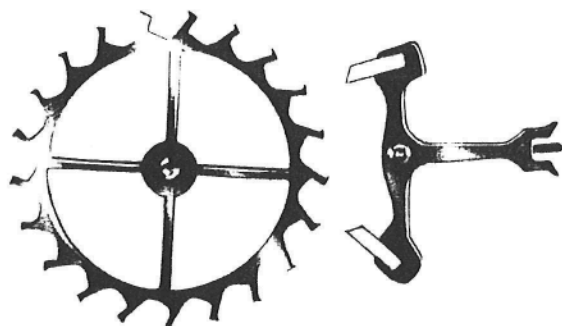


Fig. 6

A few series of watches are equipped with durochron pallet forks which, in certain conditions, may cause binding. In these cases, steel pallet forks give better results. The two executions of pallet forks are alike in appearance; those which are made of durochron are non-magnetic, this characteristic can be used for distinguishing them. If the pallet fork is replaced, verify the functions of the escapement and, if necessary, adjust them very carefully; the use of a binocular magnifier is strongly recommended.

### **Sprung balance**

The balance is fitted with a Greiner collet (Fig. 7); consequently, the hairspring cannot be removed but in the factory.

For this reason, any damaged sprung balance must be replaced completely.

Sprung balances where only the pivots are damaged can be exchanged at a special price at our Spare Parts Division.

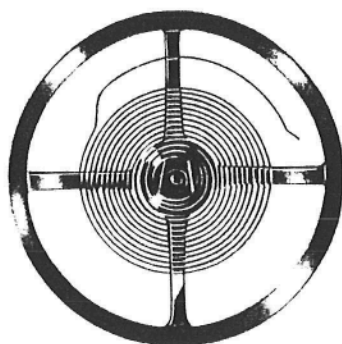
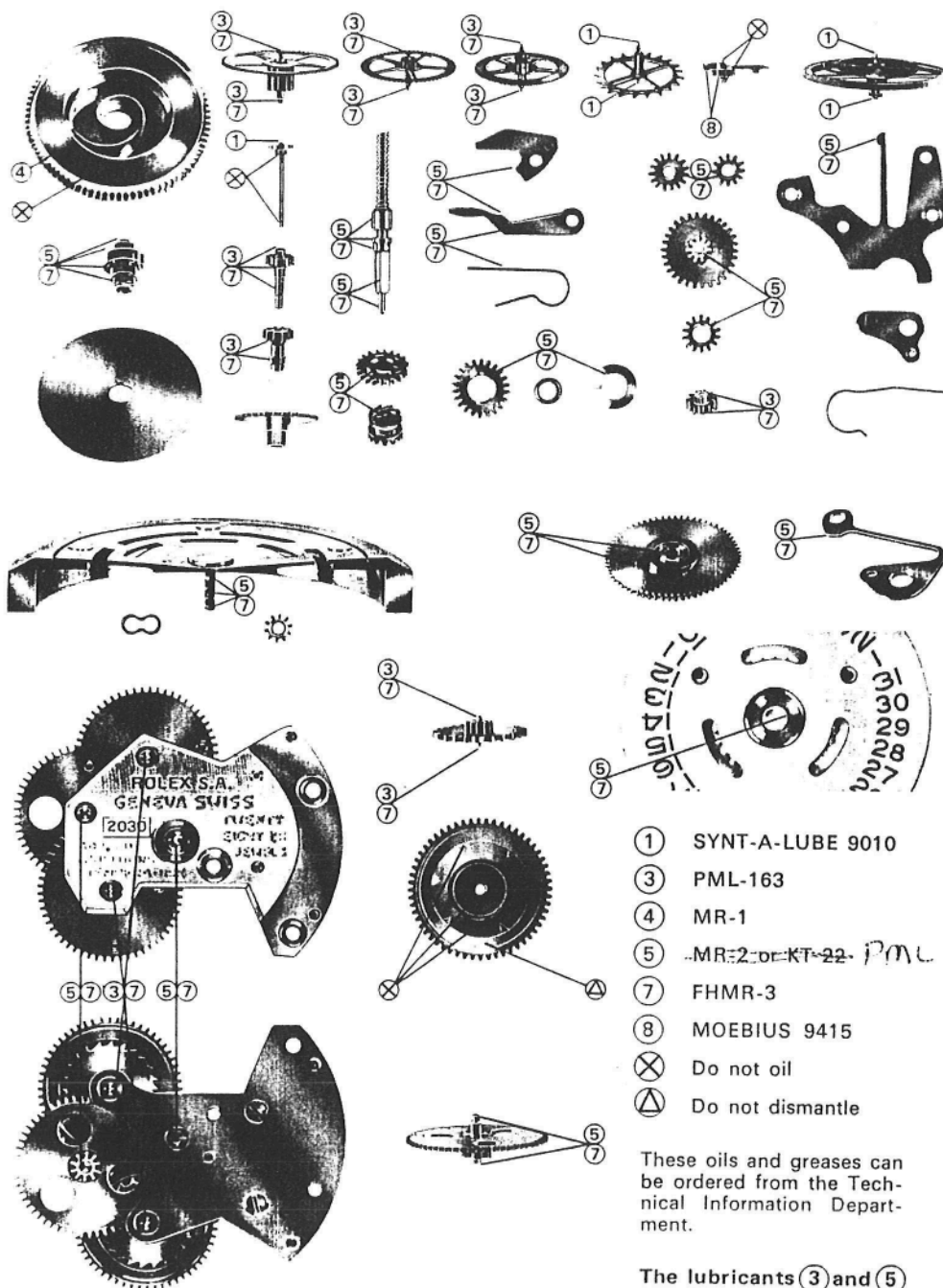


Fig. 7

The radius of the hairspring should not exceed 2.17 mm. There are however a few series of balances whose hairsprings have a radius of 2.30 mm or more. If the amplitude is great, these springs may foul the hairspring holder; the result of this is an irregular daily rate, the sprung balance has then to be changed.



# OILING CHART



- ① SYNT-A-LUBE 9010
- ③ PML-163
- ④ MR-1
- ⑤ MR-2 or KT-22 PML
- ⑦ FHMR-3
- ⑧ MOEBIUS 9415
- ⊗ Do not oil
- △ Do not dismantle

These oils and greases can be ordered from the Technical Information Department.

The lubricants ③ and ⑤ can be replaced by the oil ⑦.



## ASSEMBLING THE MOVEMENT

If it is to give entire satisfaction, this movement must be overhauled with the greatest care; it is necessary, in particular, to see that the train, the jewels and the escapement are perfectly clean.

For lubrication, see the diagram on page 7.

1. Fit the escape-wheel endstones (Duofix); the size of the oil drop should be equal to  $\frac{2}{3}$  of the endstone diameter.
2. Fit the friction spring (No. 4428), which is located by the two edges of the central recess in the main plate. Fit the minute pinion (No. 4423) after having greased its two pivots, and then fit the minute-pinion cock (No. 4413).

3. Lubricate the escape wheel, preferably by the "Lubrifar" method.

The escape wheels are treated with "Lubrifar" (a mixture of oil and molybdenum bisulfide) in the factory \*. This lubricant is dissolved by cleaning baths; for the time being, it can be applied only with a special apparatus.

Failing this apparatus, grease Moebius 9415 should be applied sparingly to the pallet stones.

4. Assemble the train, the last element to be fitted being the sweep-second pinion.

Minute particles of metal attracted by the magnet may remain between the leaves of the sweep-second pinion. They must be carefully removed. This can be easily done with a cleaning paste, such as Rodico-one-touch.

5. Lubricate the wall of the barrel drum with Olyt grease (ROLEX MR-1).

- Place the mainspring inside the barrel.
- Grease slightly the mainspring if it has been washed in cleaning baths.
- Oil the barrel-arbor pivots, then fit the barrel and its bridge.

6. Assemble the hand-setting mechanism.

7. Fit the crown wheel seat (No. 4442) with its convex side facing upwards (Fig. 8).
  - Oil the crown wheel seat, the stud of the intermediate pinion and the pivots of the wig-wag pinion.

\*The escape wheels supplied by our Spare Parts Division are also pregreased. This pregreasing appears in the form of a blackish deposit on the tips of the teeth (impulse faces).



Fig. 8

8. Fit the crown wheel (No. 4441), the intermediate pinion (No. 4443), the wig-wag pinion (No. 4444) and the winding mechanism bridge (No. 4416).
  - The friction of the crown wheel should be strong enough to maintain the wig-wag pinion in the winding position when the clutch wheel (No. 4440) comes out of gear.
9. Fit the pallet fork and the pallet cock.
10. Turn the balance cock over, put the balance and insert the hairspring between the pins and into the plate of the hairspring holder (No. 4435). Push the bend of the hairspring against the hairspring holder and screw the plate tight.
11. Fit the balance cock and verify the centring of the hairspring and its truth in the flat. To correct the latter, slightly loosen the screw of the hairspring holder.
12. Oil the shock-absorbers.

**The movement must not run without oil on the balance.**

#### TIMING

1. Centre the hairspring between the pins; it should have little side-play. The two ruby pins are adjustable (Fig. 9): to reduce the play of the hairspring, turn the pin-holder clockwise with the ROLEX tool Ref. 2031 \* or with tweezers.

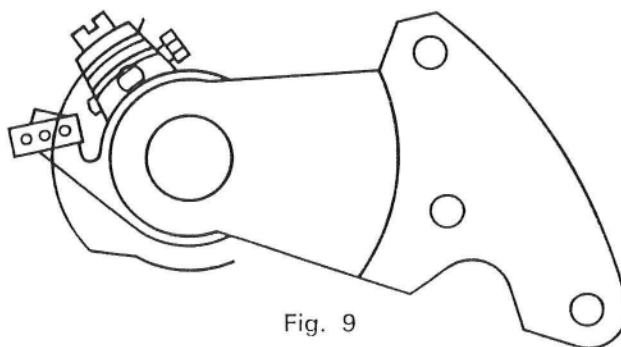


Fig. 9

\* Obtainable from the Technical Information Department.





The angle between the hairspring holder and the pins must not be greater than  $45^\circ$  (Fig. 10).

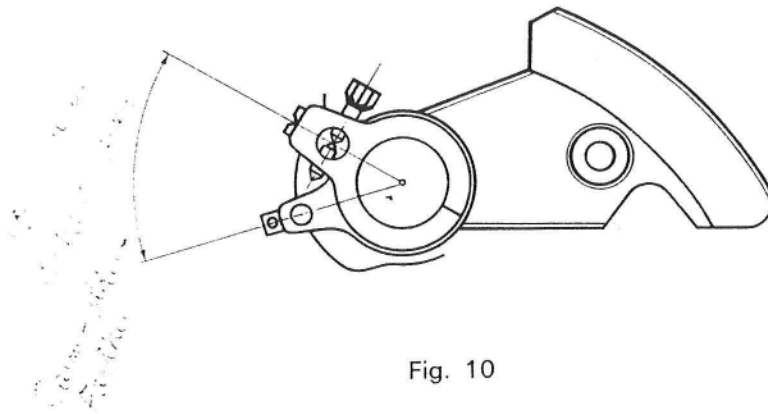


Fig. 10

2. If necessary, correct the beat by means of the adjustable hairspring holder.
3. Set the rate as close to zero as possible by means of the regulator, then finish the timing correction by turning the hairspring holder screw with the Microstella key.
4. Then check the rate and amplitude on a watch-timer and an amplitude meter, in the following positions:

9 H vertical, crown down  
6 H vertical, crown left  
3 H vertical, crown up  
C H horizontal, dial up  
F H horizontal, dial down

5. When the watch has been cased up and the complete rotor fitted, verifications should be made over 24 hours in different positions and on a wear-simulator. At this stage, it is always possible to make a further correction if necessary.



## AUTOMATIC WINDING DEVICE

Seen from above (Fig. 11)

Seen from below (Fig. 12)



Scale:  
1,5 : 1



Fig. 11

Fig. 12

### Checking the endshake of the reversing wheels

The endshake of the driver of the reversing wheel (No. 4479) should be very slight (0.01 mm). To check it, lift the pinion of the driver with a pair of tweezers and observe the movement of the pivots in the jewel holes. If a correction is necessary, make it by shifting the jewels in the sole (No. 4472) of the automatic winding device.

### Dismantling the automatic winding device

- Remove the gib (No. 4478) and the rotor (No. 4474).
- Take out the two screws (No. 54472) of the sole (No. 4472).
- Remove the reversing wheels and the intermediate wheel.

### Assembling the automatic winding device

- Fit the bridge of the automatic winding device upon the rotor axle, which should have been greased beforehand.
- Fit the winding wheel (No. 4477).
- Fit the two reversing wheels mounted (No. 4479).
- Fit the sole (No. 4472).
- Fit the gib into the groove of the rotor axle and by lifting the rotor, make sure that it is correctly positioned.



### Fitting the dial and hands

1. Fit the hour wheel and the dial.
  - Make sure the hour wheel is free.
2. Drive on the hour, minute and second hands without supporting either the pivot of the sweep second pinion or the jewelled bush (No. 6191) of the sweep second pinion.

The movement can be supported by its rim on a movement holder for instance ROLEX Ref. 2076 \* or placed flat on a plate.

### CASING UP

1. Place the movement inside the case, which should have been reconditioned beforehand (polishing and brushing of the case and bracelet, water-resistance test).
  - Press the setting lever stud and insert the winding stem; screw the winding crown onto its tube in order to centre the stem.
  - Take the casing clamps (No. 4498) out of their recess and drive their screws (No. 54498) tight.
  - Some models have an enlargement ring (No. 4481) and long casing clamps (No. 4499) with screws (No. 54498).
2. Fit the automatic winding device, making sure that the gearing between the intermediate wheel and the ratchet wheel is correct, and drive the screws tight.
3. Check the rotor to make sure that it turns perfectly freely and, by moving the oscillating weight in both directions, see whether the ratchet wheel moves forward.
4. Check the rate on a watch-timer.
5. Lightly grease the thread of the case back, tighten the back and carry out the final water-resistance test.
6. Check the working of the automatic winding device on a wear-simulator.

\* Obtainable from the Technical Information Department.



## CALIBRE 2035 - derived from calibre 2030

|                                                |                                         |                              |
|------------------------------------------------|-----------------------------------------|------------------------------|
| Automatic                                      | Date                                    | Shock-absorber               |
| Magnetic breaking of the sweep second pinion   |                                         | Centre second                |
| Clinergic escapement with 21 teeth wheel       |                                         | Stop second device.          |
| Annular balance                                | Flat hairspring                         | Adjustable hairspring holder |
| Spirofin regulator with 2 adjustable ruby pins | Fine rating by means of Microstella key |                              |

|                                                     |          |
|-----------------------------------------------------|----------|
| - External diameter                                 | 20.00 mm |
| - Case-fitting diameter                             | 19.70 mm |
| - Overall height including automatic winding device | 5.90 mm  |
| - Number of jewels                                  | 28       |
| - Frequency 4 Hz, i.e. vibrations per hour          | 28'800   |
| - Box of spare parts                                | No. 50   |

Movement seen from below, with date disc (Fig. 13) and without it (Fig. 14).



Fig. 13

Scale:  
1,5 : 1



Fig. 14



## DISMANTLING THE CALENDAR MECHANISM

Remove the date disc (No. 4520), unscrew the date jumper (No. 4516) and take out the calendar wheel (No. 4514). Some models have an enlargement ring (No. 4522) and a larger date disc (No. 4521), Fig. 15 and Fig. 16.



Fig. 15

Scale  
1:1



Fig. 16

## ASSEMBLING THE CALENDAR MECHANISM

1. Lightly lubricate the calendar-wheel stud and fit the wheel and the date jumper.
2. The beak of the date jumper should be parallel to the main plate, and the clearance between the plate and the beak 0.25 mm.
3. Make sure that the tension of the date jumper is as indicated in Fig. 17.

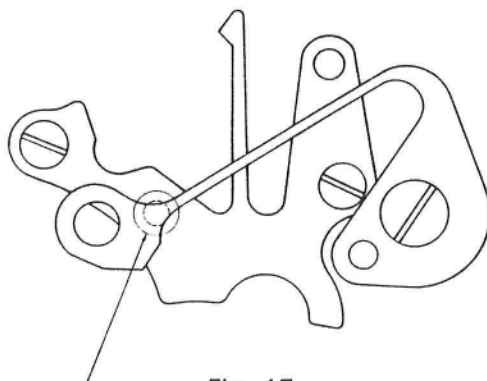


Fig. 17



4. Lubricate the beak of the jumper and fit the date disc.

The enlargement rings with which some models are fitted are fixed to the movement with the casing clamps (No. 4498) and their screws (No. 54498).

The casing bridles must then be fitted with the convex side facing upwards, so as to press on the enlargement ring.

5. Fit the hour wheel and the dial.

- Check the free action and the endshake of the hour wheel, as well as the changing of the date.

6. Drive on the hands so as to ensure that the date changes at midnight.

- Tolerance 1 + 3 min.

#### CASING UP

See page 12, paragraph 1, bearing in mind the following special points:

- The movement with enlargement rings (No. 4522) are held in position by case screws (No. 54522); for locking, these must be unscrewed (Fig. 18).
- Verify the changing of the date before and after the case back is screwed tight.



Scale  
1:1

Fig. 18



In order to improve the functional reliability of this calibre, we have made the following alterations to the movement in the course of the last few years:

- Narrowed the angle between the hairspring holder and the regulator from 85 to 45°, see page 10, fig. 10.
- Shortened the radius of the hairspring from 2.30 to 2.10 – 2.17 mm.
- Narrowed the space between the regulator pins from 0.06 to 0.04 mm, tolerance  $\pm 0.01$  mm.
- Replaced the durochron pallet fork by a steel one with shorter horns and 0.01 mm narrower pallets.



## CALIBRE 2030 - Basic calibre

|                                                |                |                              |
|------------------------------------------------|----------------|------------------------------|
| Automatic                                      | Shock-absorber | Centre second                |
| Magnetic breaking of the sweep second pinion   |                | Stop-second device           |
| Clinergic escapement with 21 teeth wheel       |                | Adjustable hairspring holder |
| Spirofin regulator with 2 adjustable ruby pins |                | Annular balance              |
| Fine rating by means of Microstella key        |                | Flat hairspring              |

|                                                     |          |
|-----------------------------------------------------|----------|
| - External diameter                                 | 20.00 mm |
| - Case-fitting diameter                             | 19.70 mm |
| - Overall height including automatic winding device | 5.40 mm  |
| - Number of jewels                                  | 28       |
| - Frequency 4 Hz, i.e. vibrations per hour          | 28'800   |
| - Box of spare parts                                | No. 50   |

Movement seen from above, with automatic winding device (Fig. 1) and without it (Fig. 2).



Fig. 1

Scale:  
1,5 : 1



Fig. 2





## DISMANTLING THE MOVEMENT \*

The use of non-magnetic tweezers is recommended.

1. Take out the two low-headed screws (No. 54471) and the high-headed screw (No. 54471-1), and remove the complete rotor (No. 4475).
2. Press the stud of the setting lever (No. 4448) and pull out the winding stem; push the casing clamps in their recess and take the movement out of the case. Remove the hands and the dial, then refit the winding stem.
3. Slowly let down the mainspring. If necessary, finish letting it down by giving the ratchet-wheel  $1/8$  of a turn with a screwdriver in order to release the wig-wag pinion. Then hold back the click and, with the screwdriver still in the slot of the screw, unwind the spring completely.
4. Check the balance and the hairspring. If it has not been done already, bend the end of the hairspring which projects beyond the hairspring holder (Fig. 3), so that its initial length can easily be found again when the movement is reassembled. Untighten the screw (No. 54435) of the hairspring holder (No. 4435). Remove the balance cock and the balance.
5. Check the endshake of the wheels and dismantle the movement.

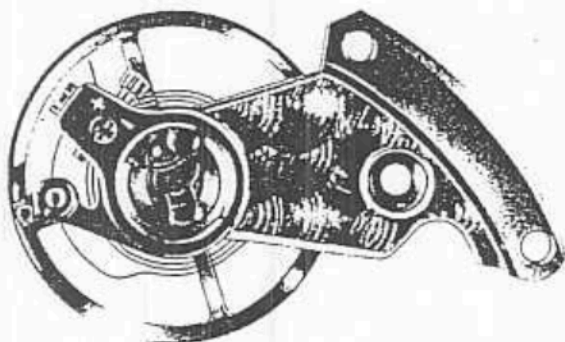


Fig. 3

6. Take the barrel (No. 4422) to pieces. Do not hesitate to change the mainspring (No. 4419 or 4420) if it is no longer in good condition.

The stop-spring plate (No. 4459) and its screw (No. 54459) may be left in position, as well as the setting lever and its pressure spring.

\* It is advisable to give the movement a preliminary washing before taking it to pieces. This first washing can be done with the sprung balance, the barrel and even the automatic winding device left in place. This procedure makes it easier for the watchmaker to judge the condition of the components of the movement. After the movement has been completely taken to pieces and the parts needing replacement have been changed, a second washing is necessary before the movement is reassembled.



#### Magnetic braking of the sweep-second pinion

A magnetized ring is driven onto the sweep-second pinion (No. 4427) and causes it to be attracted by the jewelled bush of pure iron which is driven into the train-wheel bridge (Fig. 4).

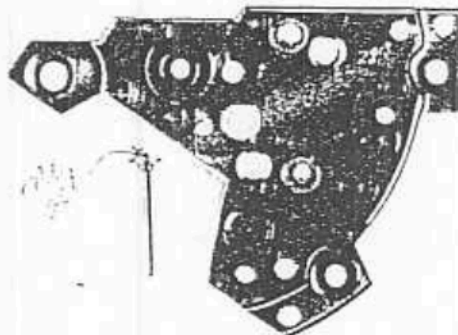


Fig. 4

In spite of the presence of this little permanent magnet, the watch can be demagnetized without any special precautions. Nevertheless, the apparatus used for checking magnetism will always indicate a slight magnetic field, but this will not affect the working of the watch.

#### Minute pinion

The minute pinion (No. 4423) is braked by the friction spring (No. 4428) in order to suppress the free play of the minute hand (Fig. 5).

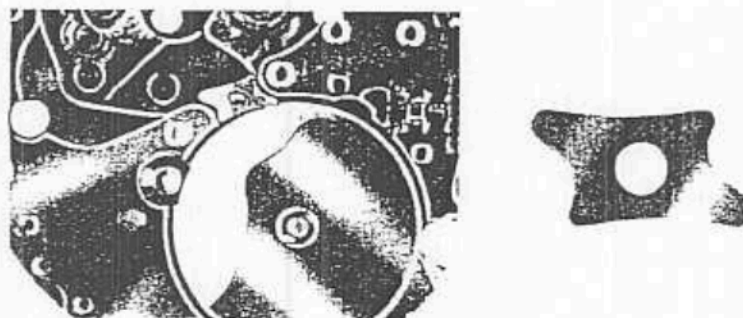


Fig. 5

#### Escapement

The clinergic escapement (Fig. 6), which is used for high frequencies has very slight clearances. The escapement functions must be set very accurately.

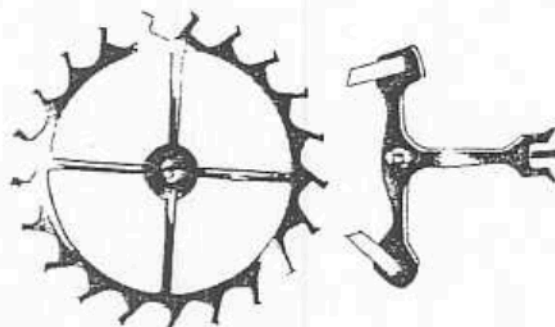


Fig. 6

A few series of watches are equipped with durochron pallet forks which, in certain conditions, may cause binding. In these cases, steel pallet forks give better results. The two executions of pallet forks are alike in appearance; those which are made of durochron are non-magnetic, this characteristic can be used for distinguishing them. If the pallet fork is replaced, verify the functions of the escapement and, if necessary, adjust them very carefully; the use of a binocular magnifier is strongly recommended.

#### Sprung balance

The balance is fitted with a Greiner collet (Fig. 7); consequently, the hairspring cannot be removed but in the factory.

For this reason, any damaged sprung balance must be replaced completely.

Sprung balances where only the pivots are damaged can be exchanged at a special price at our Spare Parts Division.

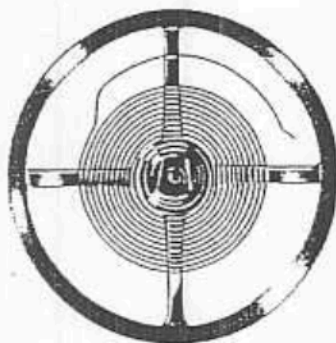
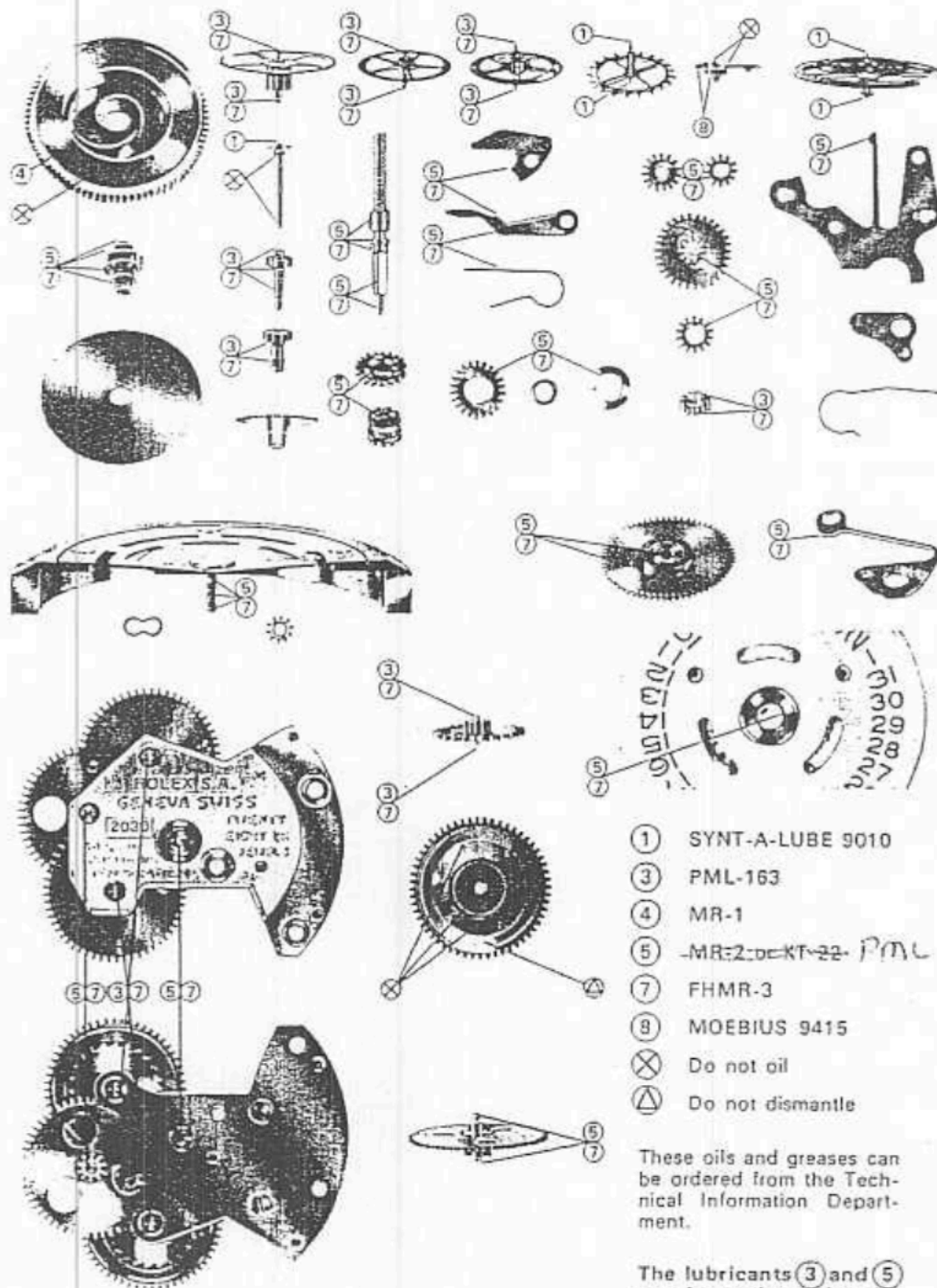


Fig. 7

The radius of the hairspring should not exceed 2.17 mm. There are however a few series of balances whose hairsprings have a radius of 2.30 mm or more. If the amplitude is great, these springs may foul the hairspring holder; the result of this is an irregular daily rate, the sprung balance has then to be changed.



# OILING CHART



- ① SYNT-A-LUBE 9010
- ③ PML-163
- ④ MR-1
- ⑤ MR-2-DKKT-22-PML
- ⑦ FHMR-3
- ⑧ MOEBIUS 9415
- ⊗ Do not oil
- △ Do not dismantle

These oils and greases can be ordered from the Technical Information Department.

The lubricants ③ and ⑤ can be replaced by the oil ⑦.



## ASSEMBLING THE MOVEMENT

If it is to give entire satisfaction, this movement must be overhauled with the greatest care; it is necessary, in particular, to see that the train, the jewels and the escapement are perfectly clean.

For lubrication, see the diagram on page 7.

1. Fit the escape-wheel endstones (Duofix): the size of the oil drop should be equal to  $\frac{2}{3}$  of the endstone diameter.
2. Fit the friction spring (No. 4428), which is located by the two edges of the central recess in the main plate. Fit the minute pinion (No. 4423) after having greased its two pivots, and then fit the minute-pinion cock (No. 4413).

3. Lubricate the escape wheel, preferably by the "Lubrifar" method.

The escape wheels are treated with "Lubrifar" (a mixture of oil and molybdenum bisulfide) in the factory \*. This lubricant is dissolved by cleaning baths; for the time being, it can be applied only with a special apparatus.

Failing this apparatus, grease Moebius 9415 should be applied sparingly to the pallet stones.

4. Assemble the train, the last element to be fitted being the sweep-second pinion.

Minute particles of metal attracted by the magnet may remain between the leaves of the sweep-second pinion. They must be carefully removed. This can be easily done with a cleaning paste, such as Rodico-one-touch.

5. Lubricate the wall of the barrel drum with Olyt grease (ROLEX MR-1).

- Place the mainspring inside the barrel.
- Grease slightly the mainspring if it has been washed in cleaning baths.
- Oil the barrel-arbor pivots, then fit the barrel and its bridge.

6. Assemble the hand-setting mechanism.

7. Fit the crown wheel seat (No. 4442) with its convex side facing upwards (Fig. 8).

- Oil the crown wheel seat, the stud of the intermediate pinion and the pivots of the wig-wag pinion.

\*The escape wheels supplied by our Spare Parts Division are also pregreased. This pregreasing appears in the form of a blackish deposit on the tips of the teeth (impulse faces).

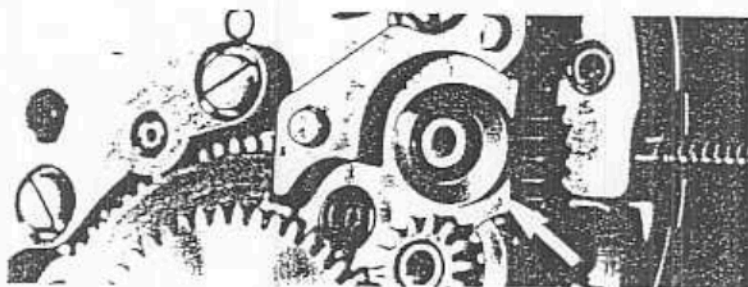


Fig. 8

8. Fit the crown wheel (No. 4441), the intermediate pinion (No. 4443), the wig-wag pinion (No. 4444) and the winding mechanism bridge (No. 4416).
    - The friction of the crown wheel should be strong enough to maintain the wig-wag pinion in the winding position when the clutch wheel (No. 4440) comes out of gear.
  9. Fit the pallet fork and the pallet cock.
  10. Turn the balance cock over, put the balance and insert the hairspring between the pins and into the plate of the hairspring holder (No. 4435). Push the bend of the hairspring against the hairspring holder and screw the plate tight.
  11. Fit the balance cock and verify the centring of the hairspring and its truth in the flat. To correct the latter, slightly loosen the screw of the hairspring holder.
  12. Oil the shock-absorbers.
- The movement must not run without oil on the balance.

#### TIMING

1. Centre the hairspring between the pins; it should have little side-play. The two ruby pins are adjustable (Fig. 9): to reduce the play of the hairspring, turn the pin-holder clockwise with the ROLEX tool Ref. 2031 \* or with tweezers.

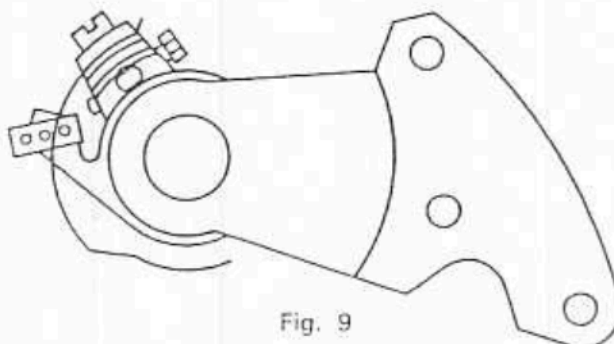


Fig. 9

\* Obtainable from the Technical Information Department.



The angle between the hairspring holder and the pins must not be greater than  $45^\circ$  (Fig. 10).

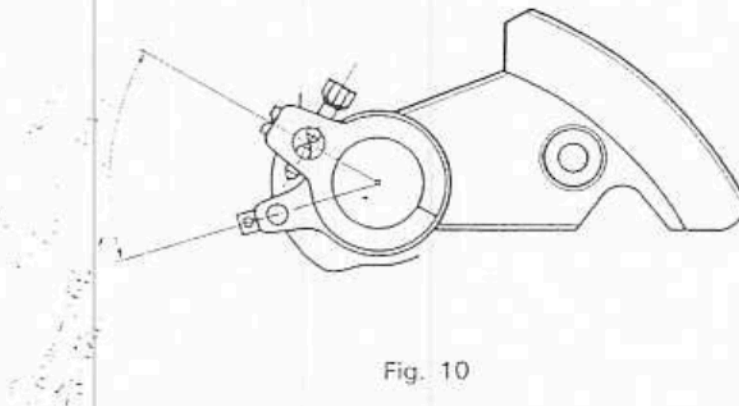


Fig. 10

2. If necessary, correct the beat by means of the adjustable hairspring holder.
3. Set the rate as close to zero as possible by means of the regulator, then finish the timing correction by turning the hairspring holder screw with the Microstella key.
4. Then check the rate and amplitude on a watch-timer and an amplitude meter, in the following positions:

9 H vertical, crown down  
6 H vertical, crown left  
3 H vertical, crown up  
C H horizontal, dial up  
F H horizontal, dial down

5. When the watch has been cased up and the complete rotor fitted, verifications should be made over 24 hours in different positions and on a wear-simulator. At this stage, it is always possible to make a further correction if necessary.



## AUTOMATIC WINDING DEVICE

Seen from above (Fig. 11)

Seen from below (Fig. 12)



Fig. 11

Scale:  
1.5 : 1



Fig. 12

### Checking the endshake of the reversing wheels

The endshake of the driver of the reversing wheel (No. 4479) should be very slight (0.01 mm). To check it, lift the pinion of the driver with a pair of tweezers and observe the movement of the pivots in the jewel holes. If a correction is necessary, make it by shifting the jewels in the sole (No. 4472) of the automatic winding device.

### Dismantling the automatic winding device

- Remove the gib (No. 4478) and the rotor (No. 4474).
- Take out the two screws (No. 54472) of the sole (No. 4472).
- Remove the reversing wheels and the intermediate wheel.

### Assembling the automatic winding device

- Fit the bridge of the automatic winding device upon the rotor axle, which should have been greased beforehand.
- Fit the winding wheel (No. 4477).
- Fit the two reversing wheels mounted (No. 4479).
- Fit the sole (No. 4472).
- Fit the gib into the groove of the rotor axle and by lifting the rotor, make sure that it is correctly positioned.





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### Fitting the dial and hands

1. Fit the hour wheel and the dial.
  - Make sure the hour wheel is free.
2. Drive on the hour, minute and second hands without supporting either the pivot of the sweep second pinion or the jewelled bush (No. 6191) of the sweep second pinion.

The movement can be supported by its rim on a movement holder for instance ROLEX Ref. 2076 \* or placed flat on a plate.

### CASING UP

1. Place the movement inside the case, which should have been reconditioned beforehand (polishing and brushing of the case and bracelet, water-resistance test).
  - Press the setting lever stud and insert the winding stem; screw the winding crown onto its tube in order to centre the stem.
  - Take the casing clamps (No. 4498) out of their recess and drive their screws (No. 54498) tight.
  - Some models have an enlargement ring (No. 4481) and long casing clamps (No. 4499) with screws (No. 54498).
2. Fit the automatic winding device, making sure that the gearing between the intermediate wheel and the ratchet wheel is correct, and drive the screws tight.
3. Check the rotor to make sure that it turns perfectly freely and, by moving the oscillating weight in both directions, see whether the ratchet wheel moves forward.
4. Check the rate on a watch-timer.
5. Lightly grease the thread of the case back, tighten the back and carry out the final water-resistance test.
6. Check the working of the automatic winding device on a wear-simulator.

\* Obtainable from the Technical Information Department.



## CALIBRE 2035 - derived from calibre 2030

|                                                |                                         |                              |
|------------------------------------------------|-----------------------------------------|------------------------------|
| Automatic                                      | Date                                    | Shock-absorber               |
| Magnetic breaking of the sweep second pinion   |                                         | Centre second                |
| Clinergic escapement with 21 teeth wheel       |                                         | Stop second device           |
| Annular balance                                | Flat hairspring                         | Adjustable hairspring holder |
| Spirofin regulator with 2 adjustable ruby pins | Fine rating by means of Microstella key |                              |

|                                                     |          |
|-----------------------------------------------------|----------|
| - External diameter                                 | 20.00 mm |
| - Case-fitting diameter                             | 19.70 mm |
| - Overall height including automatic winding device | 5.90 mm  |
| - Number of jewels                                  | 28       |
| - Frequency 4 Hz, i.e. vibrations per hour          | 28'800   |
| - Box of spare parts                                | No. 50   |

Movement seen from below, with date disc (Fig. 13) and without it (Fig. 14).



Fig. 13

Scale:  
1,5 : 1

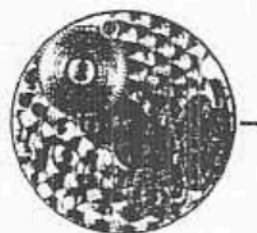


Fig. 14



## DISMANTLING THE CALENDAR MECHANISM

Remove the date disc (No. 4520), unscrew the date jumper (No. 4516) and take out the calendar wheel (No. 4514). Some models have an enlargement ring (No. 4522) and a larger date disc (No. 4521). Fig. 15 and Fig. 16.



Fig. 15

Scale  
1:1



Fig. 16

## ASSEMBLING THE CALENDAR MECHANISM

1. Lightly lubricate the calendar-wheel stud and fit the wheel and the date jumper.
2. The beak of the date jumper should be parallel to the main plate, and the clearance between the plate and the beak 0.25 mm.
3. Make sure that the tension of the date jumper is as indicated in Fig. 17.

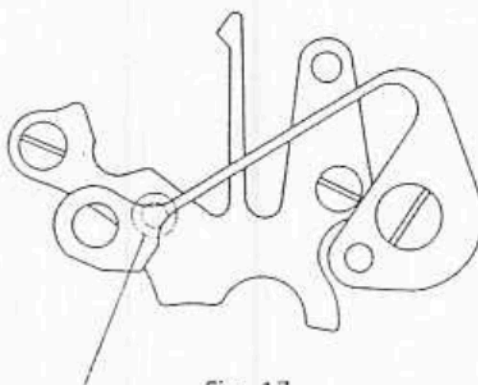


Fig. 17



4. Lubricate the beak of the jumper and fit the date disc.

The enlargement rings with which some models are fitted are fixed to the movement with the casing clamps (No. 4498) and their screws (No. 54498).

The casing bridles must then be fitted with the convex side facing upwards, so as to press on the enlargement ring.

5. Fit the hour wheel and the dial.

- Check the free action and the endshake of the hour wheel, as well as the changing of the date.

6. Drive on the hands so as to ensure that the date changes at midnight.

- Tolerance  $1 \pm 3$  min.

#### CASING UP

See page 12, paragraph 1, bearing in mind the following special points:

- The movement with enlargement rings (No. 4522) are held in position by case screws (No. 54522); for locking, these must be unscrewed (Fig. 18).
- Verify the changing of the date before and after the case back is screwed tight.



Scale  
1:1

Fig. 18

## CALIBRES 2030 - 2035

Calibre 2030, replacing calibre 1161-1166, is designed for the ROLEX LADY DATE. Its features are as follows :

|                                                    |          |
|----------------------------------------------------|----------|
| Exterior diameter                                  | 20,00 mm |
| Total height with automatic                        | 5,40 mm  |
| Total height with automatic and calendar           | 5,90 mm  |
| Number of jewels                                   | 28       |
| Number of vibrations per hour (fast beat movement) | 28,800   |

|                                                                        |                                          |                                                                       |
|------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------|
| Automatic<br>Shock protecting device                                   | Sweep second<br>Flat balance-<br>spring  | Stop second<br>Screwless balance<br>wheel with three<br>arms          |
| Movable stud-holder                                                    | Spirofin regulator<br>with two ruby pins | Precise timing<br>with regulator-<br>screw with a<br>Microstella head |
| Clinergic escapement<br>Escape wheel with<br>21 teeth<br>Solid banking | Decentred<br>centre wheel                | Magnetic braking<br>of the sweep<br>second pinion                     |

Calibre 2035 : identical plus calendar



## Particular points

### Unwinding the mainspring

Check if the wig-wag pinion No. 4444 is well engaged with the ratchet wheel and let down the mainspring normally. Finish this unwinding by retaining the ratchet wheel No. 4445 by the screw with a screwdriver. Disengage the wig-wag pinion from the ratchet wheel toothing, turn the ratchet wheel  $1/8$  of a turn, then disengage the click No. 4446 and let down completely. (The crown wheel is withheld by a curved spring to avoid the disengagement of the wig-wag pinion during the manual winding).

### Escapement

The Clinergic escapement used for fast beat movements shows very limited play and clearance which can only be correctly observed under a binocular magnifying glass. As the very delicate functions of this escapement have been accurately set in the factory by Rolex specialists, we strongly recommend not touching it unless a serious defect is noticed.

The balance wheel has a Greiner balance-spring collet which cannot be taken off without special tools. This means that the complete balance should be replaced if, for instance, the staff is broken. We have consequently provided for the repair of balances in the factory. In order to obtain a complete spare balance at a special rate from our Spare Parts Department, the old piece should be returned. If the balance-spring is damaged, the balance will be billed at the normal price.

Boîte de fournitures N° 02030



gravé sur le pont du dispositif automatique  
engraved on the automatic device bridge  
grabado sobre el puente del dispositivo automático  
graviert auf der Brücke für Automatik  
inciso sul ponte del dispositivo automatico

2030



Automatique  
Selfwinding  
Automático  
Automatisch  
Automatico

Seconde au centre  
Centre second  
Segundero central  
Zentrumsekunde  
Secondi al centro

Amortisseur  
Shock-absorber  
Amortiguador  
Stossicherung  
Ammortizzatore

28 pierres  
28 jewels  
28 piedras  
28 Steine  
28 pietre

1:1



4410



4411



4412



4413



4414



4415



4416

4417



4419



4420



4421



4422



4423



4424



4425



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4481

123

132

2:1

167

54411

54411-1

54413

54414

54416

54435

54445

54446

54449

54450

54459

54471

54471-1

54472

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54500

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4493

4494

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6100

6101

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6103

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6141

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6143

6190

6191

95016

# Calibre 2030

| Même pièce calibre | N°     | Français                                                      | English                                                    | Español                                                   | Deutsch                                                           | Italiano                                                                  |
|--------------------|--------|---------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|
|                    | 123    | Bride                                                         | <i>Bridle</i>                                              | Brida                                                     | <i>Bügel</i>                                                      | Brida                                                                     |
|                    | 132    | Bride                                                         | <i>Bridle</i>                                              | Brida                                                     | <i>Bügel</i>                                                      | Brida                                                                     |
|                    | 167    | Vis de bride                                                  | <i>Screw for bridle</i>                                    | Tornillo de brida                                         | <i>Schraube für Bügel</i>                                         | Vite della brida                                                          |
|                    | 4410   | Platine                                                       | <i>Main plate</i>                                          | Platina                                                   | <i>Werkplatte</i>                                                 | Piastra                                                                   |
|                    | 4411   | Pont de barillet                                              | <i>Barrel bridge</i>                                       | Puente de cubo                                            | <i>Federhausbrücke</i>                                            | Ponte del bariletto                                                       |
|                    | 4412   | Pont de rouage                                                | <i>Train wheel bridge</i>                                  | Puente de rodaje                                          | <i>Räderwerkbrücke</i>                                            | Ponte del ruotismo                                                        |
|                    | 4413   | Pont de pignon de minute                                      | <i>Minute pinion bridge</i>                                | Puente del piñón de minutos                               | <i>Minutentrieb-Brücke</i>                                        | Ponte del pignone dei minuti                                              |
|                    | 4414   | Pont d'ancre                                                  | <i>Pallet bridge</i>                                       | Puente de áncora                                          | <i>Ankerbrücke</i>                                                | Ponte dell'ancora                                                         |
|                    | 4415   | Pont de balancier                                             | <i>Balance bridge</i>                                      | Puente de volante                                         | <i>Unruhbrücke</i>                                                | Ponte del bilanciere                                                      |
|                    | 4416   | Pont de remontoir                                             | <i>Winding bridge</i>                                      | Puente de remontuar                                       | <i>Aufzugbrücke</i>                                               | Ponte del dispositivo di carica                                           |
|                    | 4417   | Pilier de ponts de barillet, de rouage et de pignon de minute | <i>Pillar for barrel, train, and minute pinion bridges</i> | Pilar de puentes de cubo, de rodaje y de piñón de minutos | <i>Pfeiler für Federhaus-, Räderwerk- und Minutentrieb-Brücke</i> | Colonnina dei ponti del bariletto, del ruotismo et del pignone dei minuti |
|                    | 4419   | Ressort de barillet, force normale                            | <i>Mainspring, strength-standard</i>                       | Muelle real, fuerza normal                                | <i>Zugfeder, Stärke-normal</i>                                    | Molla del bariletto, forza normale                                        |
|                    | 4420   | Ressort de barillet, force faible                             | <i>Mainspring, strength-weak</i>                           | Muelle real, fuerza débil                                 | <i>Zugfeder, Stärke-schwach</i>                                   | Molla del bariletto, forza debole                                         |
|                    | 4421   | Arbre de barillet                                             | <i>Barrel arbor</i>                                        | Arbol de cubo                                             | <i>Federwelle</i>                                                 | Albero del bariletto                                                      |
|                    | 4422   | Barillet avec arbre                                           | <i>Barrel with arbor</i>                                   | Cubo con árbol                                            | <i>Federhaus mit Federwelle</i>                                   | Bariletto con albero                                                      |
|                    | 4423   | Pignon de minute avec chaussée                                | <i>Minute pinion with cannon pinion</i>                    | Piñón de minutos con cañón de minutos                     | <i>Minutentrieb mit Minutenrohr</i>                               | Pignone dei minuti con pignone calzante                                   |
|                    | 4424   | Roue de grande moyenne                                        | <i>Great wheel</i>                                         | Rueda grande de arrastre                                  | <i>Grossbodenrad</i>                                              | Ruota di grande mediana                                                   |
|                    | 4425   | Roue moyenne                                                  | <i>Third wheel</i>                                         | Rueda primera                                             | <i>Kleinbodenrad</i>                                              | Ruota mediana                                                             |
|                    | 4426   | Roue de seconde                                               | <i>Second wheel</i>                                        | Rueda de segundos                                         | <i>Sekundenrad</i>                                                | Ruota dei secondi                                                         |
|                    | 4427   | Pignon de seconde au centre                                   | <i>Centre second pinion</i>                                | Piñón de segundero central                                | <i>Zentrumsekunden-trieb</i>                                      | Pignone dei secondi al centro                                             |
|                    | 4428   | Ressort-friction du pignon de minute                          | <i>Minute pinion friction spring</i>                       | Muelle-fricción del piñón de minutos                      | <i>Friktionsfeder für Minutentrieb</i>                            | Molla-frizione del pignone dei minuti                                     |
|                    | 4429   | Roue d'échappement                                            | <i>Escape wheel</i>                                        | Rueda de escape                                           | <i>Hemmungsrad</i>                                                | Ruota di scappamento                                                      |
|                    | 4430   | Ancre                                                         | <i>Pallet fork</i>                                         | Ancora                                                    | <i>Anker</i>                                                      | Ancora                                                                    |
|                    | 4431   | Tige d'ancre                                                  | <i>Pallet staff</i>                                        | Tija de áncora                                            | <i>Ankerwelle</i>                                                 | Albero d'ancora                                                           |
|                    | 4432   | Balancier avec spiral plat, réglé                             | <i>Balance with flat hairspring, regulated</i>             | Volante con espiral plano, regulado                       | <i>Unruh mit Flachspirale, reguliert</i>                          | Bilanciere con spirale piana, regolato                                    |
|                    | 4433   | Axe de balancier                                              | <i>Balance staff</i>                                       | Eje de volante                                            | <i>Unruhwelle</i>                                                 | Albero del bilanciere                                                     |
|                    | 4434   | Plateau                                                       | <i>Roller</i>                                              | Platillo                                                  | <i>Scheibe</i>                                                    | Disco                                                                     |
|                    | 4435   | Porte-spiral                                                  | <i>Hairspring support</i>                                  | Porta-espiral                                             | <i>Spiralfederträger</i>                                          | Porta-spirale                                                             |
|                    | 4436   | Bague de porte-spiral                                         | <i>Ring for hairspring support</i>                         | Anillo de porta-espiral                                   | <i>Ring für Spiralfederträger</i>                                 | Anello del porta-spirale                                                  |
|                    | 4437   | Raquette                                                      | <i>Regulator</i>                                           | Raqueta                                                   | <i>Rücker</i>                                                     | Racchetta                                                                 |
|                    | 4437-1 | Clavette de raquette                                          | <i>Spring-clip for regulator</i>                           | Chaveta de raqueta                                        | <i>Klemmscheibe für Rücker</i>                                    | Chiavetta della racchetta                                                 |
|                    | 4438   | Tige de remontoir                                             | <i>Winding stem</i>                                        | Tija de remontuar                                         | <i>Aufzugwelle</i>                                                | Albero di carica                                                          |
|                    | 4439   | Pignon de remontoir                                           | <i>Winding pinion</i>                                      | Piñón de remontuar                                        | <i>Aufzugtrieb</i>                                                | Pignone di carica                                                         |



# Calibre 2030

| Même pièce calibre | N°   | Français                                  | English                                   | Español                                    | Deutsch                                   | Italiano                                    |
|--------------------|------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|---------------------------------------------|
|                    | 4440 | Pignon coulant                            | <i>Sliding pinion</i>                     | Piñón corredizo                            | <i>Kupplungstrieb</i>                     | Pignone scorrevole                          |
|                    | 4441 | Roue de couronne                          | <i>Crown wheel</i>                        | Rueda de corona                            | <i>Kronrad</i>                            | Ruota a corona                              |
|                    | 4442 | Ressort-friction de roue de couronne      | <i>Friction spring for crown wheel</i>    | Muelle-fricción de rueda de corona         | <i>Friktionsfeder für Kronrad</i>         | Molla-frizione della ruota a corona         |
|                    | 4443 | Roue de couronne intermédiaire            | <i>Intermediate crown wheel</i>           | Rueda de corona intermedia                 | <i>Zwischen-Kronrad</i>                   | Ruota a corona intermedia                   |
|                    | 4444 | Pignon baladeur                           | <i>Wig-wag pinion</i>                     | Piñón corredero                            | <i>Umstelltrieb</i>                       | Pignone ballerino                           |
|                    | 4445 | Rochet                                    | <i>Ratchet wheel</i>                      | Rochete                                    | <i>Sperrad</i>                            | Rocchetto                                   |
|                    | 4446 | Cliquet                                   | <i>Click</i>                              | Trinquete                                  | <i>Klinke</i>                             | Cricco                                      |
|                    | 4447 | Ressort de cliquet                        | <i>Spring for click</i>                   | Muelle de trinquete                        | <i>Feder für Klinke</i>                   | Molla del cricco                            |
|                    | 4448 | Tirette                                   | <i>Setting lever</i>                      | Tirete                                     | <i>Winkelhebel</i>                        | Tiretto                                     |
|                    | 4449 | Ressort de tirette                        | <i>Setting lever spring</i>               | Muelle de tirete                           | <i>Winkelhebelfeder</i>                   | Molla del tiretto                           |
|                    | 4450 | Sautoir de tirette                        | <i>Jumper for setting lever</i>           | Muelle flexible de tirete                  | <i>Raste für Winkelhebel</i>              | Scatto del tiretto                          |
|                    | 4451 | Bascule de pignon coulant                 | <i>Yoke for sliding pinion</i>            | Báscula de piñón corredizo                 | <i>Hebel für Kupplungstrieb</i>           | Bascula del pignone scorrevole              |
|                    | 4452 | Ressort de bascule                        | <i>Spring for yoke</i>                    | Muelle de báscula                          | <i>Feder für Kupplungshebel</i>           | Molla della bascula                         |
|                    | 4453 | Renvoi                                    | <i>Setting wheel</i>                      | Rueda de transmisión                       | <i>Zeigerstellrad</i>                     | Rinvio                                      |
|                    | 4454 | Renvoi intermédiaire                      | <i>Intermediate setting wheel</i>         | Rueda de transmisión intermedia            | <i>Zwischen-Zeigerstellrad</i>            | Rinvio intermedio                           |
|                    | 4455 | Roue de minuterie                         | <i>Minute wheel</i>                       | Rueda de minutería                         | <i>Wechselrad</i>                         | Ruota della minuteria                       |
|                    | 4456 | Tenon de roue de minuterie                | <i>Minute wheel stud</i>                  | Espiga de rueda de minutería               | <i>Lagerstift für Wechselrad</i>          | Tenone della ruota di minuteria             |
|                    | 4457 | Chaussée                                  | <i>Cannon pinion</i>                      | Cañón de minutos                           | <i>Minutenrohr</i>                        | Pignone calzante                            |
|                    | 4458 | Roue des heures                           | <i>Hour wheel</i>                         | Rueda de horas                             | <i>Stundenrad</i>                         | Ruota delle ore                             |
|                    | 4459 | Plaquette de ressort d'arrêt de balancier | <i>Plate for balance stop spring</i>      | Plaqueta del muelle de tope del volante    | <i>Plättchen für Stoppfeder der Unruh</i> | Placchetta a molla per fermo del bilanciere |
|                    | 4460 | Ressort d'arrêt de balancier              | <i>Balance stop spring</i>                | Muelle de tope del volante                 | <i>Stoppfeder für Unruh</i>               | Molla per fermo del bilanciere              |
|                    | 4461 | Noyau de roue de couronne                 | <i>Crown wheel core</i>                   | Sombrerete de rueda de corona              | <i>Kronradkern</i>                        | Nocciolo della ruota a corona               |
|                    | 4465 | Ressort-friction de roue des heures       | <i>Hour wheel friction spring</i>         | Muelle-fricción de rueda de horas          | <i>Friktionsfeder für Stundenrad</i>      | Molla-frizione della ruota delle ore        |
|                    | 4471 | Pont du dispositif automatique            | <i>Automatic device bridge</i>            | Puente del dispositivo automático          | <i>Brücke für Automatik</i>               | Ponte del dispositivo automatico            |
|                    | 4472 | Pont inférieur du dispositif automatique  | <i>Automatic device lower bridge</i>      | Puente inferior del dispositivo automático | <i>Untere Brücke für Automatik</i>        | Ponte inferiore del dispositivo automatico  |
|                    | 4473 | Coussinet de masse oscillante             | <i>Bearing pad for oscillating weight</i> | Cojinete de masa oscilante                 | <i>Lagerfutter für Schwungmasse</i>       | Cuscinetto della massa oscillante           |
|                    | 4474 | Masse oscillante                          | <i>Oscillating weight</i>                 | Masa oscilante                             | <i>Schwungmasse</i>                       | Massa oscillante                            |
|                    | 4475 | Module de remontoir automatique           | <i>Automatic device module</i>            | Modulo de remontuar automático             | <i>Automatik-Baugruppe</i>                | Modulo di ricarica automatica               |
|                    | 4476 | Axe de masse oscillante                   | <i>Axle for oscillating weight</i>        | Eje de masa oscilante                      | <i>Welle für Schwungmasse</i>             | Asse della massa oscillante                 |
|                    | 4477 | Pignon de masse oscillante                | <i>Pinion for oscillating weight</i>      | Piñón de masa oscilante                    | <i>Trieb für Schwungmasse</i>             | Pignone della massa oscillante              |

# Calibre 2030

| Même<br>pièce<br>calibre | N°    | Français                                                | English                                                    | Español                                                 | Deutsch                                                   | Italiano                                                    |
|--------------------------|-------|---------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
|                          | 4478  | Clavette de masse oscillante                            | Spring-clip for oscillating weight                         | Chaveta de masa oscilante                               | Klemmscheibe für Schwungmasse                             | Chiavetta della massa oscillante                            |
|                          | 4479  | Roue d'inversion montée                                 | Reversing wheel, mounted                                   | Rueda de inversión, ajustada                            | Umkehrgrad, montiert                                      | Ruota d'inversione, montata                                 |
|                          | 4480  | Roue entraîneuse de rochet                              | Driving wheel for ratchet wheel                            | Rueda de arrastre de roquete                            | Mitnehmerrad für Sperrad                                  | Ruota conduttrice del rocchetto                             |
|                          | 4481  | Cercle d'agrandissement                                 | Enlargement ring                                           | Aro de agrandar                                         | Vergrößerungsring                                         | Cerchio di ingrandimento                                    |
|                          | 4490  | Amortisseur de balancier, dessus                        | Shock-absorber for balance, upper                          | Amortiguador de volante, encima                         | Stoßsicherung für Unruh, oben                             | Ammortizzatore del bilanciere, sopra                        |
|                          | 4491  | Amortisseur de balancier, dessous                       | Shock-absorber for balance, lower                          | Amortiguador de volante, debajo                         | Stoßsicherung für Unruh, unten                            | Ammortizzatore del bilanciere, sotto                        |
|                          | 4492  | Chaton, dessus et dessous                               | In-setting, upper and lower                                | Chatón, encima y debajo                                 | Steinfutter, oben und unten                               | Castone, sopra e sotto                                      |
|                          | 4493  | Contre-pivot, dessus et dessous                         | Cap jewel, upper and lower                                 | Contrapivota, encima y debajo                           | Deckstein, oben und unten                                 | Controperno, sopra e sotto                                  |
|                          | 4494  | Ressort, dessus et dessous                              | Spring, upper and lower                                    | Muelle, encima y debajo                                 | Feder, oben und unten                                     | Molla, sopra e sotto                                        |
|                          | 4495  | Chaton combiné de roue d'échappement, dessus et dessous | Combined in-setting for escape wheel, upper and lower      | Chatón combinado de rueda de escape, encima y debajo    | Kombiniertes Steinfutter, für Hemmungsrad, oben und unten | Castone combinato della ruota di scappamento, sopra e sotto |
|                          | 4497  | Ressort, dessus et dessous                              | Spring, upper and lower                                    | Muelle, encima y debajo                                 | Feder, oben und unten                                     | Molla, sopra e sotto                                        |
|                          | 6100  | Pierre de roue de centre, dessus                        | Jewel for centre wheel, upper                              | Piedra de rueda de centro, encima                       | Stein für Minutenrad, oben                                | Pietra della ruota di centro, sopra                         |
|                          | 6101  | Pierre de roue de centre, dessous                       | Jewel for centre wheel, lower                              | Piedra de rueda de centro, debajo                       | Stein für Minutenrad, unten                               | Pietra della ruota di centro, sotto                         |
|                          | 6102  | Pierre de roues moyenne et de seconde, dessus           | Jewel for third and second wheels, upper                   | Piedra de ruedas primera y de segundos, encima          | Stein für Kleinboden- und Sekundenrad, oben               | Pietra delle ruote mediana e dei secondi, sopra             |
|                          | 6103  | Pierre de roues moyenne et de seconde, dessous          | Jewel for third and second wheels, lower                   | Piedra de ruedas primera y de segundos, debajo          | Stein für Kleinboden- und Sekundenrad, unten              | Pietra delle ruote mediana e dei secondi, sotto             |
|                          | 6140  | Pierre de masse oscillante, dessous                     | Jewel for oscillating weight, lower                        | Piedra de masa oscilante, debajo                        | Stein für Schwungmasse, unten                             | Pietra della massa oscillante, sotto                        |
|                          | 6141  | Pierre de roue d'inversion, dessus                      | Jewel for reversing wheel, upper                           | Piedra de rueda de inversión, encima                    | Stein für Umkehrgrad, oben                                | Pietra della ruota d'inversione, sopra                      |
|                          | 6142  | Pierre de roue d'inversion, dessous                     | Jewel for reversing wheel, lower                           | Piedra de rueda de inversión, debajo                    | Stein für Umkehrgrad, unten                               | Pietra della ruota d'inversione, sotto                      |
|                          | 6143  | Pierre de roue entraîneuse de rochet, dessus et dessous | Jewel for driving wheel for ratchet wheel, upper and lower | Piedra de rueda de arrastre de roquete, encima y debajo | Stein für Mitnehmerrad für Sperrad, oben und unten        | Pietra della ruota conduttrice del rocchetto, sopra e sotto |
|                          | 6190  | Bouchon de barillet, dessus                             | Bush for barrel, upper                                     | Aro de metal de cubo, encima                            | Lagerbuchse für Federhaus, oben                           | Boccola del bariletto, sopra                                |
|                          | 6191  | Bouchon du pignon de seconde au centre                  | Bush for centre second pinion                              | Aro del piñón de segundero central                      | Buchse für Zentrumsekundentrieb                           | Boccola del pignone dei secondi al centro                   |
|                          | 54411 | Vis de ponts: de barillet et rouage, tête basse         | Screw for barrel and train wheel bridges, low head         | Tornillo de puentes: de cubo y rodaje, cabeza baja      | Schraube für Federhaus- und Räderwerk, niedriger Kopf     | Vite dei ponti: del bariletto e ruotismo, testa bassa       |

| Même<br>pièce<br>calibre | N°      | Français                                                               | English                                                                          | Español                                                                    | Deutsch                                                                              | Italiano                                                                         |
|--------------------------|---------|------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 3035                     | 54411-1 | Vis de ponts:<br>de balancier, de barillet<br>et rouage,<br>tête haute | <i>Screw for: balance,<br/>barrel and train<br/>wheel bridges,<br/>high head</i> | Tornillo de puentes:<br>de volante, de cubo<br>y de rodaje,<br>cabeza alta | <i>Schraube für:<br/>Unruh-, Federhaus- und<br/>Räderwerk-Brücke,<br/>hoher Kopf</i> | Vite dei ponti:<br>del bilanciere, del<br>barileto e del ruotismo,<br>testa alta |
|                          | 54413   | Vis de pont de pignon<br>de minute                                     | <i>Screw for minute<br/>pinion bridge</i>                                        | Tornillo de puente del<br>piñón de minutos                                 | <i>Schraube für<br/>Minutentrieb-Brücke</i>                                          | Vite del ponte del<br>pignone dei minuti                                         |
|                          | 54414   | Vis de pont<br>d'ancre                                                 | <i>Screw for pallet<br/>bridge</i>                                               | Tornillo de puente<br>de áncora                                            | <i>Schraube<br/>für Ankerbrücke</i>                                                  | Vite del ponte<br>dell'ancora                                                    |
|                          | 54416   | Vis de pont<br>de remontoir                                            | <i>Screw for winding<br/>bridge</i>                                              | Tornillo de puente<br>de remontuar                                         | <i>Schraube<br/>für Aufzugbrücke</i>                                                 | Vite del ponte<br>del dispositivo di carica                                      |
|                          | 54435   | Vis<br>de porte-spiral                                                 | <i>Screw<br/>for hairspring support</i>                                          | Tornillo<br>de porta-espiral                                               | <i>Schraube<br/>für Spiralfederträger</i>                                            | Vite<br>del porta-spirale                                                        |
|                          | 54445   | Vis de rochet                                                          | <i>Screw for ratchet wheel</i>                                                   | Tornillo de rochete                                                        | <i>Schraube für Sperrad</i>                                                          | Vite del rocchetto                                                               |
|                          | 54446   | Vis de cliquet                                                         | <i>Screw for click</i>                                                           | Tornillo de trinquete                                                      | <i>Schraube für Klinke</i>                                                           | Vite del cricco                                                                  |
|                          | 54449   | Vis de ressort<br>de tirette                                           | <i>Screw for setting<br/>lever spring</i>                                        | Tornillo de muelle<br>de tirete                                            | <i>Schraube<br/>für Winkelhebelfeder</i>                                             | Vite della molla<br>del tiretto                                                  |
|                          | 54450   | Vis de sautoir<br>de tirette                                           | <i>Screw for setting<br/>lever jumper</i>                                        | Tornillo de muelle<br>flexible de tirete                                   | <i>Schraube<br/>für Winkelhebelraste</i>                                             | Vite dello scatto<br>del tiretto                                                 |
|                          | 54459   | Vis de plaquette<br>de ressort d'arrêt<br>de balancier                 | <i>Screw for plate<br/>for balance stop<br/>spring</i>                           | Tornillo de plaqueta<br>del muelle de tope<br>del volante                  | <i>Schraube für Plättchen<br/>für Stoppfeder<br/>der Unruh</i>                       | Vite della placchetta<br>a molla per fermo<br>del bilanciere                     |
|                          | 54471   | Vis de pont<br>du dispositif<br>automatique, tête basse                | <i>Screw for automatic<br/>device bridge,<br/>low head</i>                       | Tornillo de puente<br>del dispositivo<br>automático, cabeza baja           | <i>Schraube für Brücke<br/>für Automatik,<br/>niedriger Kopf</i>                     | Vite del ponte<br>del dispositivo<br>automatico, testa bassa                     |
|                          | 54471-1 | Vis de pont<br>du dispositif<br>automatique, tête haute                | <i>Screw for automatic<br/>device bridge,<br/>high head</i>                      | Tornillo de puente<br>del dispositivo<br>automático, cabeza alta           | <i>Schraube für Brücke<br/>für Automatik,<br/>hoher Kopf</i>                         | Vite del ponte<br>del dispositivo<br>automatico, testa alta                      |
|                          | 54472   | Vis de pont inférieur<br>du dispositif<br>automatique                  | <i>Screw for automatic<br/>device lower<br/>bridge</i>                           | Tornillo de puente<br>inferior del dispositivo<br>automático               | <i>Schraube für untere<br/>Brücke für<br/>Automatik</i>                              | Vite del ponte inferiore<br>del dispositivo<br>automatico                        |
|                          | 54499   | Vis de cadran                                                          | <i>Screw for dial</i>                                                            | Tornillo de esfera                                                         | <i>Schraube<br/>für Zifferblatt</i>                                                  | Vite del quadrante                                                               |
|                          | 54500   | Jeu de vis                                                             | <i>Set of screws</i>                                                             | Juego de tornillos                                                         | <i>Schrauben-Satz</i>                                                                | Gioco di viti                                                                    |
|                          | 95016   | Pierre d'ancre,<br>dessus et dessous                                   | <i>Jewel for pallet fork,<br/>upper and lower</i>                                | Piedra de áncora,<br>encima y debajo                                       | <i>Stein für Anker,<br/>oben und unten</i>                                           | Pietra d'ancora,<br>sopra e sotto                                                |



gravé sur le pont du dispositif automatique  
engraved on the automatic device bridge  
grabado sobre el puente del dispositivo automático  
graviert auf der Brücke für Automatik  
inciso sul ponte del dispositivo automatico

2030



Automatique  
Selfwinding  
Automático  
Automatisch  
Automatico

Calendrier (trainant)  
Calendar (progressive)  
Calendario (progressivo)  
Kalender (progressiv)  
Calendario (progressivo)

Seconde au centre  
Centre Second  
Segundero central  
Zentrumsekunde  
Secondi al centro

Amortisseur  
Shock-absorber  
Amortiguador  
Stossicherung  
Ammortizzatore

28 pierres  
28 jewels  
28 piedras  
28 Steine  
28 pietre



1:1



4510



4511



4512



4513



4514



4515



4516



4517



4518



4519



Ø 18 mm

4520-1



Ø 18 mm

4520-2



Ø 21,50 mm

4521-1



Ø 21,50 mm

4521-2



4522

2:1



171



54502



54516

# Calibre 2035

| Même pièce calibre | N°     | Français                           | English                                 | Español                               | Deutsch                               | Italiano                                |
|--------------------|--------|------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|
|                    | 171    | Vis de cercle d'agrandissement     | <i>Screw for enlargement ring</i>       | Tornillo de aro de agrandar           | <i>Schraube für Vergrößerungsring</i> | Vite del cerchio di ingrandimento       |
|                    | 4510   | Platine                            | <i>Main plate</i>                       | Platina                               | <i>Werkplatte</i>                     | Piastre                                 |
|                    | 4511   | Pignon de minute avec chaussée     | <i>Minute pinion with cannon pinion</i> | Piñón de minutos con cañón de minutos | <i>Minutentrieb mit Minutenrohr</i>   | Pignone dei minuti con pignone calzante |
|                    | 4512   | Chaussée                           | <i>Cannon pinion</i>                    | Cañón de minutos                      | <i>Minutenrohr</i>                    | Pignone calzante                        |
|                    | 4513   | Roue des heures                    | <i>Hour wheel</i>                       | Rueda de horas                        | <i>Stundenrad</i>                     | Ruota delle ore                         |
|                    | 4514   | Roue de quantième                  | <i>Date wheel</i>                       | Rueda de fecha                        | <i>Datumrad</i>                       | Ruota del datario                       |
|                    | 4515   | Tenon de roue de quantième         | <i>Date wheel stud</i>                  | Espiga de rueda de fecha              | <i>Lagerstift für Datumrad</i>        | Tenone della ruota del datario          |
|                    | 4516   | Sautoir de quantième               | <i>Date jumper</i>                      | Muelle flexible de fecha              | <i>Datumraste</i>                     | Scatta-data                             |
|                    | 4517   | Pied de sautoir de quantième       | <i>Foot for date jumper</i>             | Pie de muelle flexible de fecha       | <i>Fuss für Datumraste</i>            | Piedino della scatta-data               |
|                    | 4518   | Pilier de sautoir de quantième     | <i>Pillar for date jumper</i>           | Pilar de muelle flexible de fecha     | <i>Pfeiler für Datumraste</i>         | Pila della scatta-data                  |
|                    | 4519   | Etoile de quantième                | <i>Date star</i>                        | Estrella de fecha                     | <i>Datumstern</i>                     | Stella del datario                      |
|                    | 4520-1 | Indicateur de quantième, champagne | <i>Date indicator, champagne</i>        | Indicador de fecha, champañia         | <i>Datumanzeiger, champagne</i>       | Indicatore della data, champagne        |
|                    | 4520-2 | Indicateur de quantième, argenté   | <i>Date indicator, silvered</i>         | Indicador de fecha, plateado          | <i>Datumanzeiger, versilbert</i>      | Indicatore della data, argentato        |
|                    | 4521-1 | Indicateur de quantième, champagne | <i>Date indicator, champagne</i>        | Indicador de fecha, champañia         | <i>Datumanzeiger, champagne</i>       | Indicatore della data, champagne        |
|                    | 4521-2 | Indicateur de quantième, argenté   | <i>Date indicator, silvered</i>         | Indicador de fecha, plateado          | <i>Datumanzeiger, versilbert</i>      | Indicatore della data, argentato        |
|                    | 4522   | Cercle d'agrandissement            | <i>Enlargement ring</i>                 | Aro de agrandar                       | <i>Vergrößerungsring</i>              | Cerchio di ingrandimento                |
|                    | 54502  | Jeu de vis                         | <i>Set of screws</i>                    | Juego de tornillos                    | <i>Schraubensatz</i>                  | Gioco di viti                           |
|                    | 54516  | Vis de sautoir de quantième        | <i>Screw for date jumper</i>            | Tornillo de muelle flexible de fecha  | <i>Schraube für Datumraste</i>        | Vite dello scatta-data                  |



#### **Braking of the sweep second pinion No. 4427**

To avoid the disadvantages of the friction spring, the calibre 2030-35 is equipped with magnetic braking of the sweep second pinion. To this effect a magnetic ring is driven onto the sweep second staff of the pinion No. 4427. This staff is attracted by the jewelled bush No. 6191 made of soft iron driven into the train wheel bridge. In spite of the presence of this small permanent magnet, no special precautions are needed to demagnetise the watch on a special apparatus for this purpose. On the other hand, you will always notice a slight magnetisation with an apparatus to detect magnetism. However, this magnetic field has no influence at all on the time-keeping of the watch. The use of non-magnetic tweezers is recommended.

**Attention :** Even after a good cleaning, small metal chips attracted by the magnet may remain at the bottom of the pinion. Be careful to remove them with the cleaning paste "Rodico one touch".

#### **Spirofin regulator**

The regulator carries two orientable ruby pins which allow the adjustment of the hairspring between the pins. The beat of the hairspring must be adjusted before the watch is regulated, by turning the pin-holder with tweezers (clockwise to narrow the gap). Use the regulator to approach the timing as close to zero as possible and the Microstella screw for the final adjustment. The Microstella key is the same as for calibre 1570-75.

#### **Fitting the hands**

Fit the hour, minute and second hands without supporting the pivot of the sweep second pinion. The movement may be supported by the casing diameter on the movement-holder or put flat on a plate.



Technical information  
Information technique  
Información técnica  
Technische Information  
Informazione tecnica

MARCH 1987

**TECHNICAL  
SUPPLEMENT**

RECENT TECHNICAL MODIFICATIONS BROUGHT TO  
CALIBRES 2130/2135 AND 3035 NOT BEING MENTIONED IN  
THE RESPECTIVE TECHNICAL INFORMATION BULLETIN



COMMUNICATIONS

RECOMMENDATION

TOOLS

REMARKS





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## TECHNICAL MODIFICATIONS

### CALIBRES 2130/2135

#### Hairspring support No. 2130-453

The hairspring support has been modified so as to give an inclination to the bridle.

The object is: to prevent a coil from getting hooked between the hairspring support and the bridle.

### CALIBRE 3035

#### Date wheel mounted No. 5094

The width of the finger has been increased from 0,375 to 0,550 mm.

The object is: to control better the date indicator when jumping.

## COMMUNICATIONS

### Strengthening of the security of the bracelet screws, the Oyster tubes and the winding stems

When links fixed with screws have to be added or removed, it is recommended to use Loctite 259\* to strengthen the tightness of the screws.

The hold tube/case middle part and stem/crown can also be strengthened with Loctite 270\*.

Loctite is deposited with parsimony on the screw thread.

### Replacement of Oyster tubes

When replacing a tube it is necessary to fit the type of tube which corresponds to the recess done in the case middle part for the seat of the tube. The Oyster catalogue R.20, edition April 1987, gives for every case reference the number of the corresponding tube.

### Gold cases

Under adverse conditions, a discolouration due to a chemical reaction between the silver washer and the gold case can take place around the tube. It is then necessary to remove the silver washer. With a tube No. 24-5330, respectively No. 24-6010 use a gold washer No. 29-05318, respectively No. 29-06028. Polishing removes discolouration.

\* Can be ordered from the Technical Information Department.





### Dials and hands calibres 2035 and 2135

The dials cal. 2035 cannot be fixed on the movements cal. 2135, however the contrary is possible since the dials cal. 2135 have millings for the two bolts of the date indicator seating.

The hands of cal. 2035 and 2135 are not interchangeable.

However when a dial has to be changed one must pay attention to the particularity of the movement i.e. fit a dial that, as the old one, either bears the mention « Superlative Chronometer Officially Certified », either not. Do not omit to mention this point when ordering a dial as far as Rolesor or steel watches are concerned.

## RECOMMENDATION

### Lubrication

We recommend to use our new range of lubricants. The technical information bulletin No. 23, the up to date issue of cal. 3035/3055, includes the new lubricating charts.

Here is the list of our lubricants and summarily their use:

|                                          |                                                                                                                                                                 |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Oil Synt-A-Lube 9010</b><br>Ref. 2900 | balance and escape wheel pivots.                                                                                                                                |
| <b>Grease MR 1</b><br>Ref. 2904          | inner wall of automatic watches barrel.                                                                                                                         |
| <b>Grease Moebius 9415</b><br>Ref. 2911  | impulse plane of the teeth of the escape wheel and of the pallet-stones; peremptory use for the 28.800 V/h, optional use for the 19.800 and 21.600 V/h watches. |
| <b>Oil FHMR 3</b><br>Ref. 2912           | other wheels and pinions.                                                                                                                                       |
| <b>Grease MR 4</b><br>Ref. 2913          | friction of cannon pinion, mechanisms.                                                                                                                          |
| <b>Oil Moebius 941</b><br>Ref. 2901      | impulse plane of the pallet-stones of the 19.800 and 21.600 V/h watches if Moebius grease 9415 has not been used.                                               |
| <b>Grease Fomblin</b><br>Ref. 2916       | belongs now to the range of our lubricants, is not used for the movement and replaces grease 55 M Ref. 2908, silicone Ref. 2909 and tallow Ref. 2910.           |



## TOOLS

Two punches Ref. 2092 and 2102 are necessary to rivet the combined in-setting No. 95063 of the automatic device bridge cal. 3035-85. The riveting is done with the punch with prongs Ref. 2102; the flat punch Ref. 2092 is used to flatten the rivet so as to keep a sufficient clearance between the automatic device bridge and the oscillating weight. A special stake Ref. 2112 is available, it has a recess in its centre for the combined in-setting of the automatic device bridge.

A special tool Ref. 2106 is available. It is a tip, notched on one end, to make easier the fitting of the spring for cam yoke of the cal. 1555, 1556, 1575, 3035, 3055, 3075, 3085, 5035 and 5055. This tip goes on a screwdriver of a diameter of 3.00 mm.

To facilitate the screwing and especially the unscrewing of the screws of the bracelets links, there are sockets that can be fitted on the handle for taps Ref. 2039 and designed to receive screwdriver blades. Sockets for blades of a diameter of 0.90, 1.20, 1.40 and 1.70 mm are available.

## IMPORTANT REMARKS RELATING TO THE VACUUM APPARATUS REF. 1000

The functioning of this apparatus is often misunderstood and in particular the indications of the manometer. Consequently we think useful to give the explanations hereafter.

The dial of the manometer has graduations in cm Hg (Hg = mercury) and the hand shows the lowering of pressure brought about the transparent container. This method which works by lowering the pressure, is an excellent way of detecting leaks because it subjects the case to severe strain caused by high pressure inside the case.

Unfortunately no strict physical concordance can be given for a watch which is plunged into water and therefore subjected to high external pressure. However the practical tests we have carried out have proved that a watch will be perfectly waterresistant in normal conditions of immersion in water (swimming, diving, etc) if the hand of the manometer shows 60 cm Hg.



Technical information

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**TECHNICAL  
SUPPLEMENT**

RECENT TECHNICAL MODIFICATIONS BROUGHT TO  
CALIBRES 2130/2135, 3035/3055/3075/3085 AND 5055  
NOT BEING MENTIONED IN THE RESPECTIVE  
TECHNICAL INFORMATION BULLETIN

COMMUNICATIONS

RECOMMENDATION

REMINDER



## COMMUNICATIONS

### ROLEX apparatus and tools

A list of ROLEX apparatus and tools especially designed for the After-Sale Service can be obtained from the Technical Information Department.

### Lubrication of the escapement

We use the Moebius 9415 grease to lubricate the impulse planes of the teeth of the escape wheel of the 28'800 vibrations per hour calibres. It is applied as described in our Technical Information bulletin No 20 "Calibers 3075/3085" on page 8, §2.14.

## RECOMMENDATION

### Cleaning of the cleaning machines jars and benzine cups

We recommend «TEX-Spezial», a soapy performing detergent, for the cleaning of jars and benzine cups.

Proceed weekly to this cleaning which eliminates the deposit that facilitates the spreading of oils and counteracts the effect of epilame.

Proceed as follows:

- Pour «TEX-Spezial» into the container to be cleaned to a proportion of 5% of the content and fill up with water at 50°C (122°F).
- Let work for 2-3 hours.
- Rinse several times with warm water.  
The distilled water must spread out on the walls of the container, the forming of drops means that the cleaning has turned out badly.
- Rinse the last time with distilled water.
- Let dry in the open air (if one cannot wait, dry with warm air or alcohol, do not use cloth nor compressed air).

«TEX-Spezial» can be ordered from the Technical Information Department.

## REMINDER

### Lubrication of the reversing wheels mounted of all the calibres with automatic winding device

The reversing wheels mounted must be coated with epilame according to our instructions. Only the pivots must be lubricated.

Refer to our sheet: "Lubrication of reversing wheels". This sheet is available from the Technical Information Department.



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### CALIBRE 3035

Yoke for cam No. 5090

The yoke for cam is milled on the case side near the pivoting hole.

The object is: to prevent the working of the yoke for cam to be limited by the cases group  
ref. 15000.

### CALIBRES 3035-3085

Spring-clip for oscillating weight No. 5066 (5066-1, 5066-2, 5066-3)

A new shape has been chosen, the spring-clip is now of a claw type.

The object is: to prevent the spring-clip for oscillating weight to leave its bed.

### CALIBRES 3055 AND 5055

Assembled star wheels No. 5131

The day finger of the assembled star wheels has a polished ridge instead of a flat surface entirely polished.

The object is: to ensure a good stability and bring to a minimum the friction of the day  
finger of the assembled star wheels against the dial.