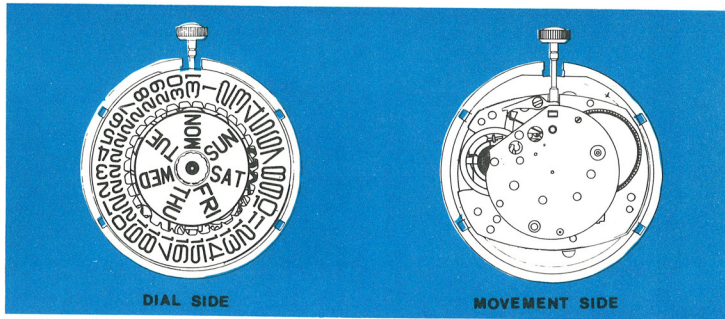


TIMEX[®] Model 106

SERVICE MANUAL
MODEL 106

13 lig.
29.4 mm
1.160 in.

The TIMEX® Model 106 Movement



SHOWN ACTUAL SIZE

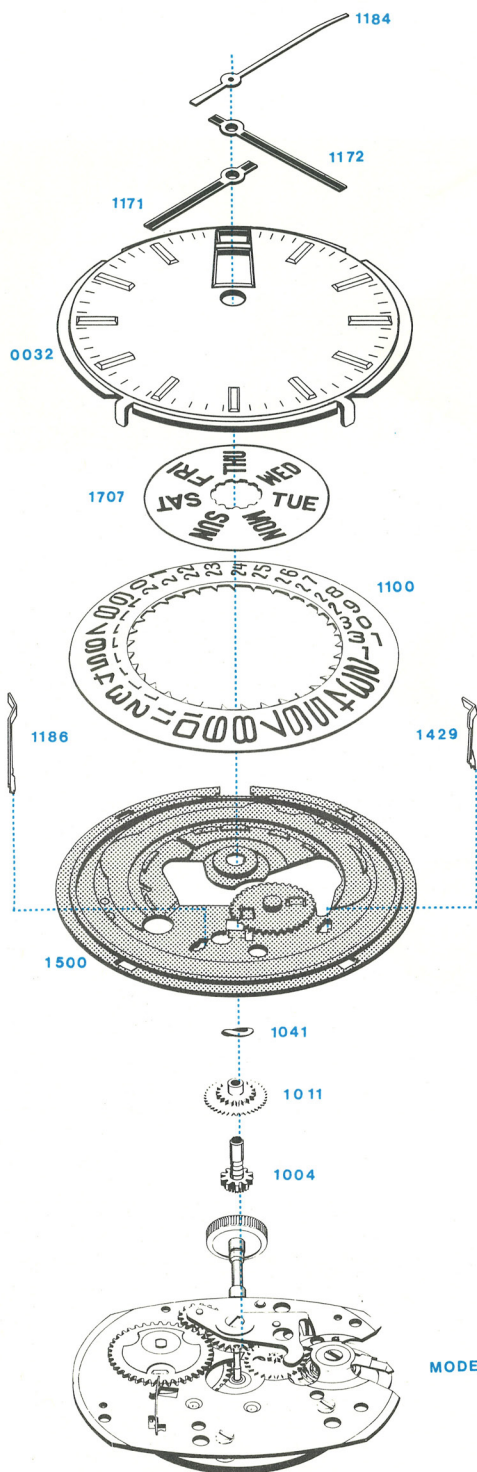
The TIMEX Model 106 is a 13 ligne manual wind day and date movement which contains a fast change feature for setting both the day and the date. It contains "V-conic®" balance bearings.

The Model 106 is similar to the TIMEX Model 104 movement with the addition of the day and date mechanism.

The Model 106 movement is thinner than the similar TIMEX Model 27 movement. The Model 106 can be distinguished from the Model 27 by removing the case back and noting that the dial tabs on the Model 106 are bent around the Dial Rest and the Dial Plate while the dial tabs on the Model 27 are bent around the Dial Rest only. The Dial Rest is flush with the Dial Plate on the Model 106 while there is a gap between the Dial Rest and the Dial Plate on the Model 27. The brass Date Wheel on the Model 27 can be seen where it extends beyond the Dial Plate.

The TIMEX code number appears on the edge of the Dial. The code number shows the catalog number, movement number and year of manufacture for the watch (see Page 1.1 of the TIMEX Service Manual for explanation).

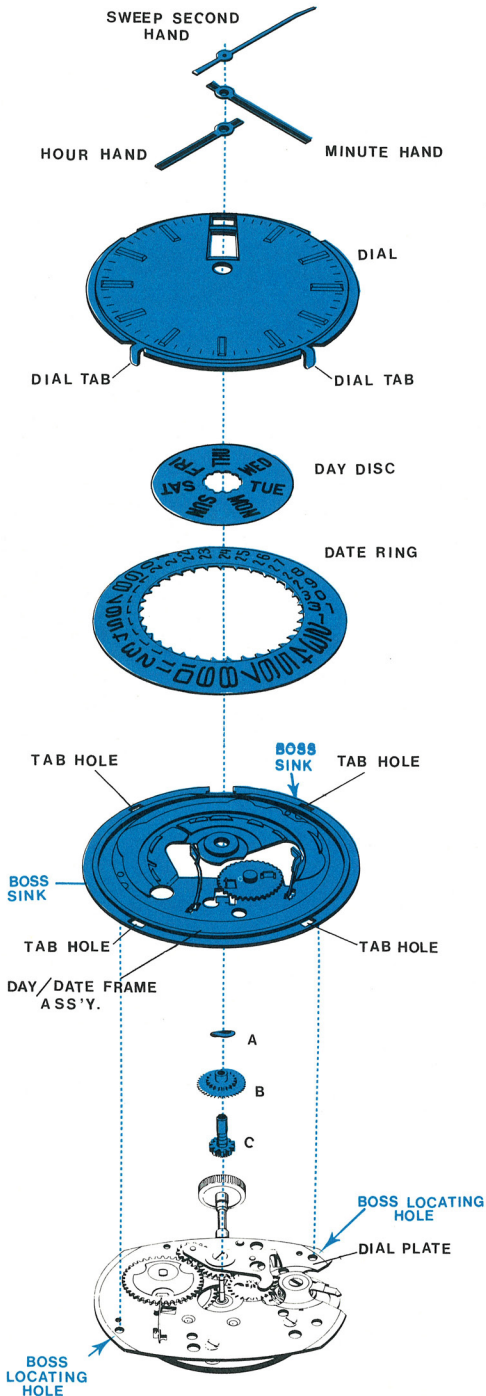
The **TIMEX**® Model 106 Movement (exploded view)



- 1004 CANNON PINION ASS'Y.
- 1011 HOUR WHEEL ASS'Y.
- 1041 HOUR WHEEL WASHER
- 0032 DIAL
- 1707 DAY DISC
- 1171 HOUR HAND
- 1172 MINUTE HAND
- 1184 SWEEP SECOND HAND
- 1100 DATE RING
- 1500 DAY / DATE FRAME ASS'Y.
- 1186 DAY DETENT SPRING
- 1429 DATE DETENT SPRING

MODEL 104 MOVEMENT

Disassembly of the Model 106 Movement



To disassemble the Model 106 for cleaning, this procedure should be followed:

- A. Remove the case back and support ring (this is not always used).
- B. Remove the screw on the set lever (beside the stem) and the set lever to release the crown and stem assembly.
- C. Pull the crown and stem assembly out of engagement in the movement and the movement assembly can then be lifted out of the case. (Some case designs require that the crystal be removed and the movement is then removed through the front of the case.)
- D. Remove all hands.
- E. Straighten the dial tabs so they will pass through the holes. Turn the assembly over and lift off the Dial, the Day Disc, the Date Ring, Date Detent Spring, Day Detent Spring and the Day—Date Frame Assembly. Note location of bosses.
- F. Remove the Hour Wheel Washer (A), Hour Wheel Assembly (B), and Cannon Pinion Assembly (C) from the movement.

With the above parts removed, the basic movement may be replaced with a Timex reconditioned movement. The parts removed above are assembled to the reconditioned movement as described starting on page 106.4.

- G. After the above parts have been removed, the basic movement can be disassembled, cleaned, lubricated and reassembled as outlined for the Model 104 Movement starting on Page 104.3.
- H. The Hour Wheel Washer, Hour Wheel Assembly, Cannon Pinion Assembly, Day Detent Spring, Date Detent Spring and the Day—Date Frame Assembly may be cleaned using standard watch cleaning solutions.

CAUTION: Extreme care must be exercised in cleaning Dials, Hands, Day Discs, and Date Rings, Solvent type cleaners will often damage the finish on these parts.

Reassembly of the Model 106 Movement

After the basic movement has been cleaned, lubricated and reassembled as outlined for the Model 104 movement the Model 106 movement reassembly is completed as follows (be sure Crown and Stem Assembly is in movement):

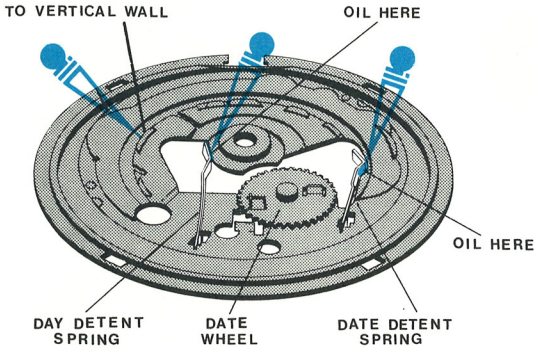
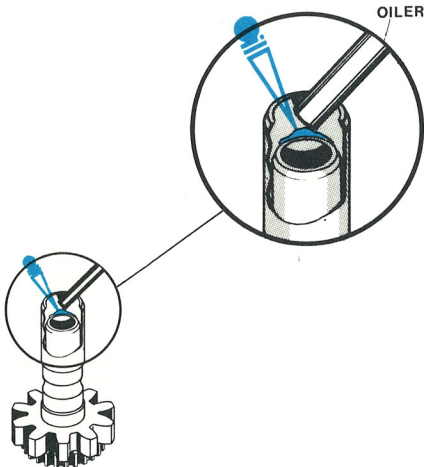


FIGURE 1

- A. Insert the Day Detent Spring and the Date Detent Spring into the Day-Date Frame as shown in the illustration at the left.
- B. Lubricate the bearing face of the Day Detent Spring and the Date Detent Spring with a thin film (AVOID EXCESS LUBRICATION) of non-spreading watch oil (Moebius Synt-A-Lube oil is used in the factory) where shown in the illustration at the left. Lubricate the vertical "wall" of the Day-Date Frame with a thin film of non-spreading type watch oil where shown in the illustration at the left.

DO NOT LUBRICATE DATE WHEEL AREA.

Apply non-spreading watch oil to the end of the Cannon Pinion as shown in the lower illustration at the left.



- C. Replace parts on the movement in the following order:
Cannon Pinion Assembly
Hour Wheel Assembly
Hour Wheel Washer
Day-Date Frame Assembly — orient frame with the slot at the stem (see illustration on Page 106.3) and seat bosses in holes.

Reassembly of the Model 106 Movement

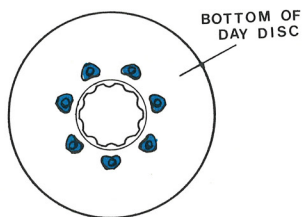


FIGURE 3

Day Disc — Note protrusions on back of disc (see illustration at left). With fine tweezers, deflect Day Detent Spring outward and place Day Disc on Day-Date Frame Assembly with any Day (I.E., Sun.) in line with Crown and Stem and drop into place. Release Day Detent Spring.

Date Ring — Position Date Ring centrally on Day-Date Frame Assembly. With fine tweezers, deflect Date Detent Spring inward until the Date Ring drops into place.

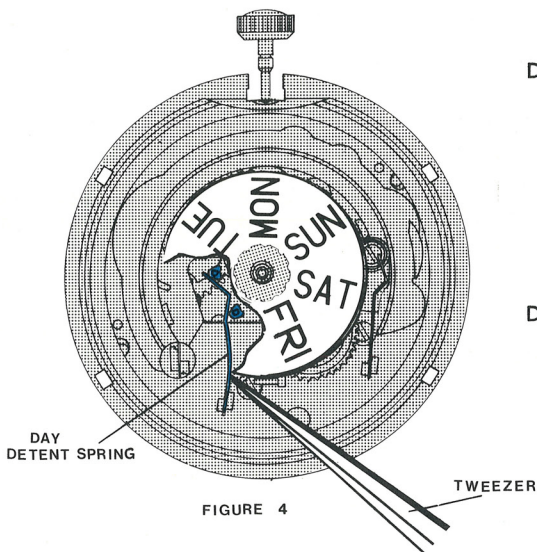


FIGURE 4

Dial — Orient Dial as shown on Page 106.3 with windows toward Crown and Stem Assembly and insert tabs through holes of the Day-Date Frame Assembly. Hold Dial and Day-Date Frame firmly on movement, turn assembly over and bend tabs securely around edge of Dial Plate.

D. Pull Crown and Stem out and rotate clockwise until the date changes (with a snap). Stop turning the Crown immediately and assemble Hands at the 12 o'clock position.

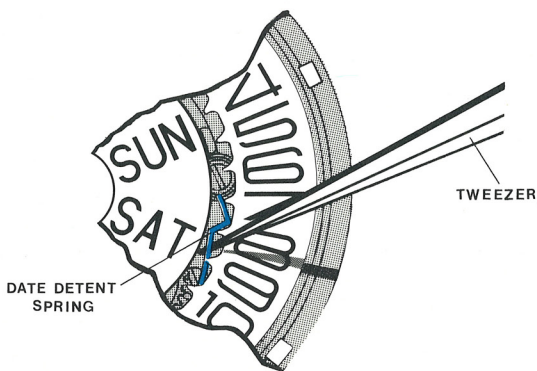


FIGURE 5

Reassembly of the Model 106 Movement

THE TIMEX MODEL 106 MOVEMENT

Check assembly to be sure day and date change as follows:

Turn crown so hands rotate clockwise until first date and then day advance and snap into position. Rotate hands counterclockwise until day moves partially out of the window then snaps back into the window. Rotate hands clockwise until day advances again.

Rotate hands counterclockwise until they indicate 9 PM then rotate the hands clockwise until the date changes with a snap, (this change should occur around midnight).

Continue to rotate hands clockwise through 29 hours and both day and date should advance one position.

Remove Crown and Stem Assembly, replace movement assembly in case (replace crystal if removed for disassembly), insert stem through case into movement and secure with Set Lever and Set Lever Screw. Position Movement Cover (when used) and replace case back.