

TIMEX

model

65

SERVICE MANUAL
MODEL 65



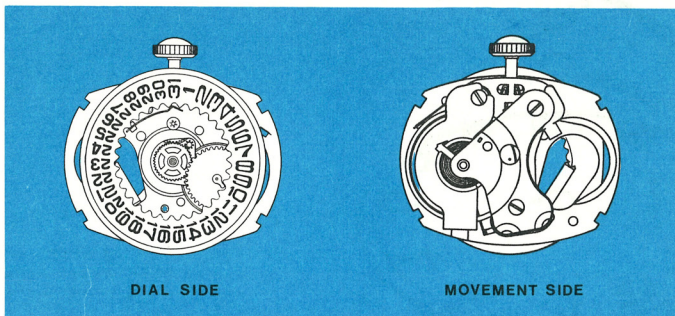
ELECTRONIC
TIME ZONE
WATCH

9 ³/₄ by 12 ³/₄ lig.

22.1 by 28.70 mm

.870 by 1.130 in.

The **TIMEX** Model 65 Movement



SHOWN ACTUAL SIZE

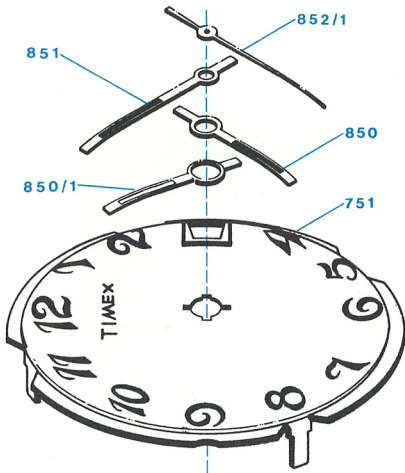
THE TIMEX MODEL 65 IS A $9\frac{3}{4}$ X $12\frac{3}{4}$ LIGNE ELECTRONIC CALENDAR MOVEMENT WITH THE ADDED FEATURE OF A SECOND HOUR HAND TO SHOW THE TIME IN TWO ZONES SIMULTANEOUSLY.

THE BASIC MODEL 65 MOVEMENT IS SIMILAR TO THE TIMEX MODEL 50 MOVEMENT WITH SOME PARTS AND ASSEMBLIES WHICH ARE DIFFERENT.

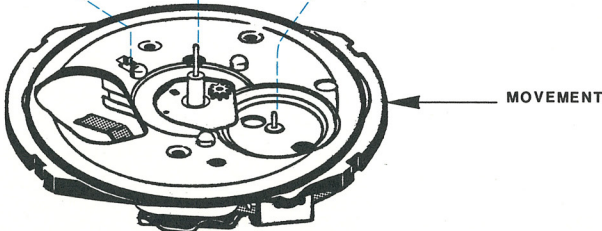
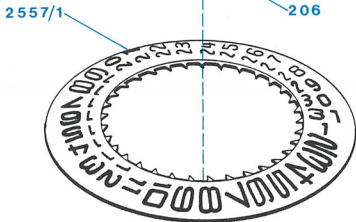
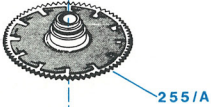
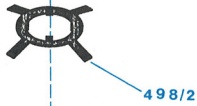
THE TIMEX CODE NUMBER APPEARS ON THE EDGE OF THE DIAL.

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 65 Movement (exploded view)



- 206 CENTER WHEEL ASSEMBLY
- 255/A HOUR WHEEL ASSEMBLY
- 498/2 HOUR WHEEL DETENT WASHER
- 751 DIAL
- 850 HOUR HAND
- 851 MINUTE HAND
- 850/1 UNIVERSAL HAND
- 852/1 SWEEP SECOND HAND
- 2556 DATE WHEEL ASSEMBLY
- 2557/1 DATE RING
- 2576 DETENT SPRING



Disassembly of Movement (Model 65)

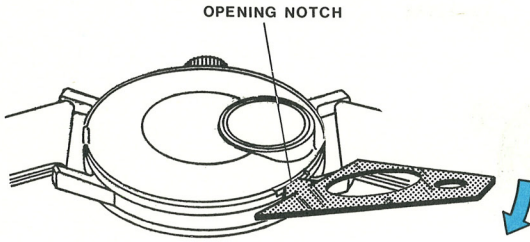


FIGURE 1

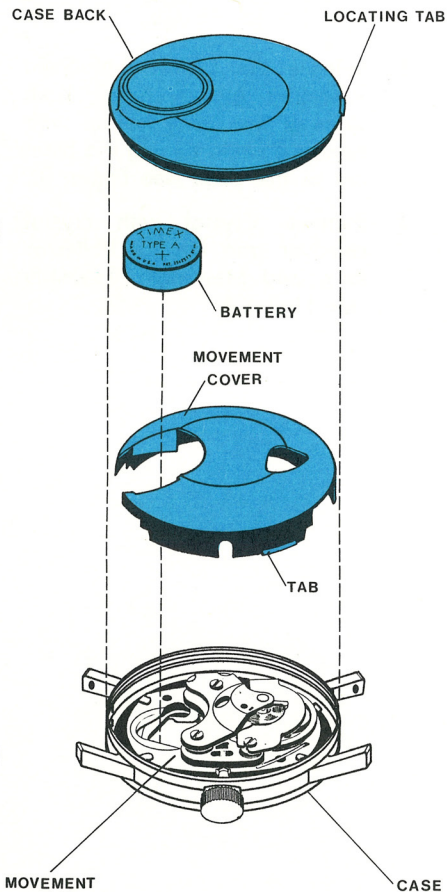


FIGURE 2

TO REMOVE MOVEMENT FROM CASE

- A. Insert blade in the opening notch and snap Case Back off (as shown in Figure 1).
- B. Remove Battery.
- C. Lift out Movement Cover with tweezers. Some force is required since it is held in place by two tabs which seat in the Bezel.

Movement will stay with the bezel since it is removed through the crystal side.

Disassembly of Movement Cont'd.

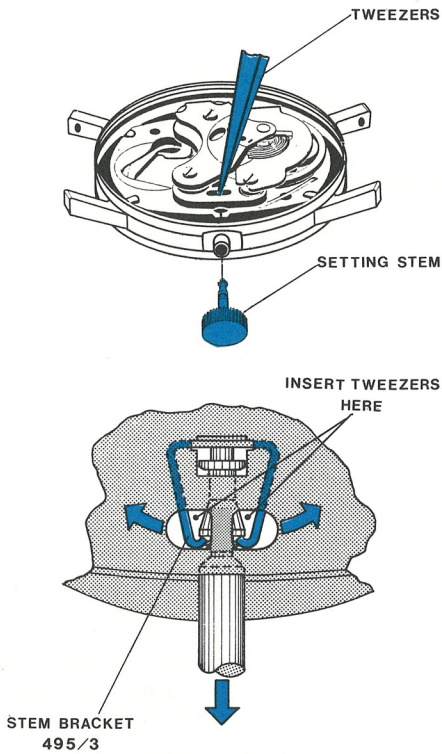


FIGURE 3

- D. Release the Crown and Stem Assembly by spreading both sides of the Stem Bracket with tweezers while pulling the Stem out of the Case (see Figure 3).
- E. Remove Crystal with crystal remover and lift out Reflector Ring and Movement Assembly (see Figure 4).

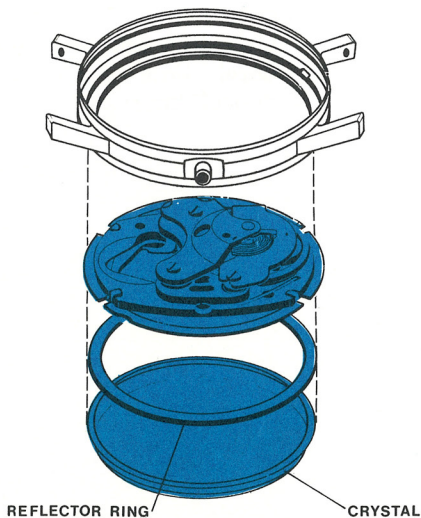


FIGURE 4

Disassembly of Movement Cont'd.

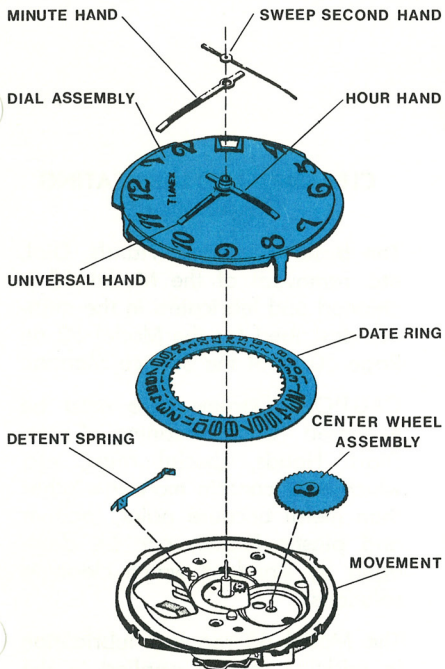


FIGURE 5

To Remove Dial From Movement:

- A. Remove Sweep Second Hand and Minute Hand.
- B. Straighten four tabs sufficiently to release Dial from Movement while holding Dial in place.
- C. Turn assembly over and lift off Dial Assembly. Note position of parts under Dial (see Figure 6). The clutch mechanism which permits setting the time difference between Hour Hands is contained in the Dial Assembly.
- D. Lift off in order:
 - Date Ring (Detent Spring will move over).
 - Date Wheel Assembly
 - Center Wheel Assembly (see Figure 5)

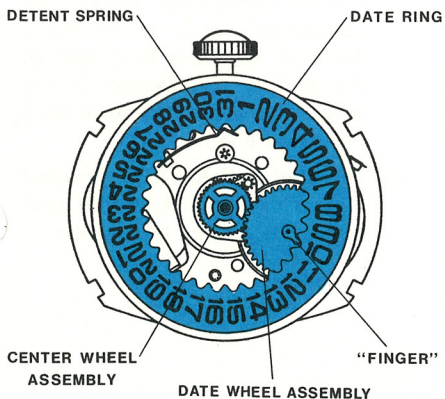


FIGURE 6

Lubricating the Model 65 Movement

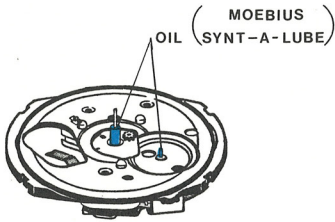


FIGURE 7

CLEANING AND LUBRICATING THE MODEL 65

The basic movement (Hands, Dial, etc. removed) of the Model 65 is cleaned and lubricated in the manner described for the Model 50 on Page 50.12 of the Service Manual.

CAUTION: Extreme care must be exercised when cleaning Cases, Dials, Hands, special rings, etc. which may contain materials other than metal because paint, lacquer and plastic finishes can be damaged by standard watch cleaning solutions.

The Model 65 requires lubrication in addition to that applied in the basic movement as described below:

- Apply non spreading watch oil (Moebius Synt-A-Lube Oil is used in the factory) to the center post and the post for the Date Wheel Assembly (see Figure 7).
- During reassembly, apply non spreading watch oil to three teeth of the Date Ring and at the end of the Detent Spring where it engages the Date Ring (see Figure 8).
- The Dial Rest has been coated with a solid film lubricant and needs no further lubrication.

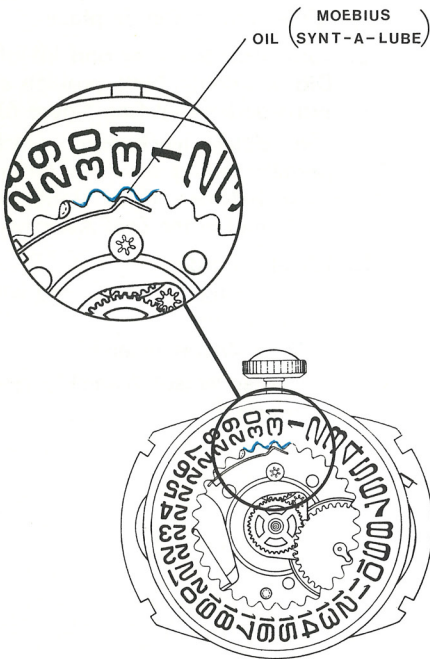


FIGURE 8

Reassembly of the Model 65 Movement

After the basic movement is cleaned, lubricated and reassembled, the Model 65 is reassembled as follows:

- A. Insert Crown and Stem Assembly in movement and push in while rotating to engage the bracket.
- B. Position Center Wheel Assembly on Center Post and engage with Pinion teeth.
- C. Place Date Wheel Assembly on post with finger positioned as shown on Page 65.5, Figure 6.
- D. Replace Detent Spring in Dial Rest if it has come loose during cleaning and handling.
- E. Centralize Date Ring on Dial Rest and use point of tweezer to deflect Detent Spring to engage teeth of Date Ring (lubricate as noted in paragraph B on Page 65.6).
- F. Place Dial Assembly on movement so window is in line with stem, Hour Hand is at 11 o'clock and tabs are aligned in slots of the Dial Plate.
- G. Hold Dial in place, turn assembly over and bend tabs to hold Dial in position.

To assemble Hands, proceed as follows:

- H. Turn Crown so Hands rotate counterclockwise and check that Zone Hand stops exactly on hour mark. Turn Hands clockwise and check that the date starts to change at 12 o'clock.
- I. Set Hour Hand at 12 o'clock position and press on Minute Hand and Second Hand. Be sure Sweep Hand is below chamfer on the top of the staff.
- J. Remove Crown and Stem. Place assembly in Bezel, make certain tabs in Bezel engage slots in the Dial Plate.
- K. Place Reflector Ring on top of Dial and replace Crystal.
- L. Insert Stem through Bezel and push into place in movement with turning motion.
- M. Replace movement cover, put in Battery and replace back being sure to align the locating tab in the notch in the Bezel.