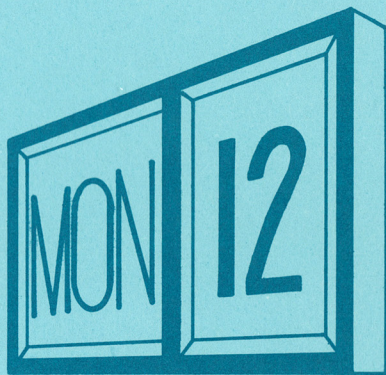


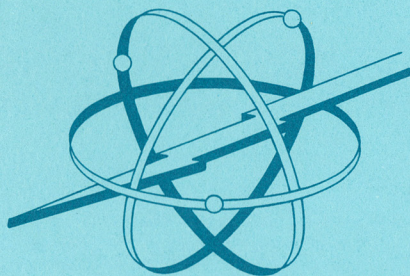
TIMEX model 52

ELECTRONIC



Day - Date

watch

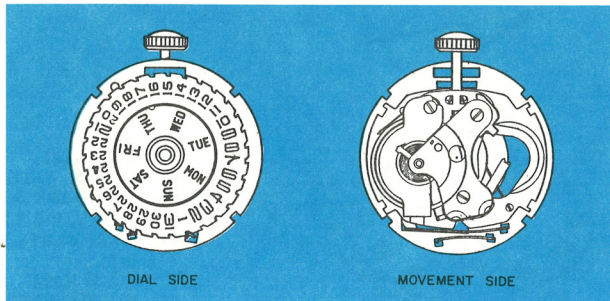


13½ lig.

30.5 mm

1.20 in.

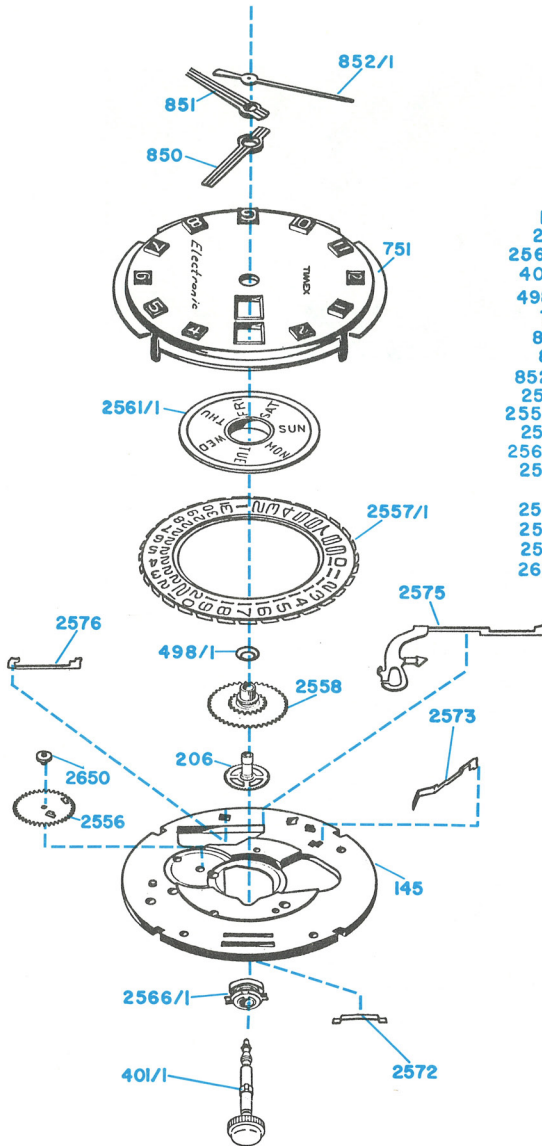
the TIMEX Model 52 Movement



The Timex Model 52 is a 13½ ligne electronic day-date movement. The Model 52 movement is similar to the Model 50 movement except that a calendar and a day mechanism has been added. The power to drive the movement is supplied by a miniature energy cell. Power from the energy cell drives the balance. The balance drives the time train which, in turn rotates the hands.

The day can be changed either forward or backward by pulling the crown out to the set position and turning through 24 hours in either direction. The date can be changed only in the increasing direction by first pushing the crown into the run position and then turning the crown in a counterclockwise direction. The date will increase one number for each half turn of the crown. Do not attempt to turn the crown clockwise when in the run position. Basic servicing techniques are similar to those used for the Model 50 except that all hands must be removed prior to removing the dial.

the TIMEX Model 52 Movement (exploded view)



- 145 DIAL REST
- 206 CENTER WHEEL
- 2561/1 DAY FRAME ASS'Y.
- 401/1 CROWN AND STEM ASS'Y.
- 498/1 HOUR WHEEL WASHER
- 751 DIAL
- 850 HOUR HAND
- 851 MINUTE HAND
- 852/1 SWEEP SECOND HAND
- 2556 DATE WHEEL
- 2557/1 DATE RING
- 2558 HOUR WHEEL
- 2566/1 DATE SET DISC ASS'Y.
- 2572 DATE SET DETENT SPRING
- 2573 DAY DETENT SPRING
- 2575 DATE LEVER
- 2576 DATE CLICK SPRING
- 2650 DATE WHEEL STUD

Disassembly of Movement (model 52)

The first step in disassembling the movement is to remove in order (as described on page 50.3 and 50.4 of the Timex Service Manual) the case back, energy cell, movement cover, crown and stem assembly (be careful to pick out the Date Set Disc Assembly and the Date Set Disc Spring after the Crown and Stem Assembly is removed—Figure 1). Turn the watch over and with a crystal lift remove the crystal from the bezel, lift out the reflector ring and then remove the dial and movement assembly. Note the position of the movement locating tabs inside the bezel to make reassembly easier.

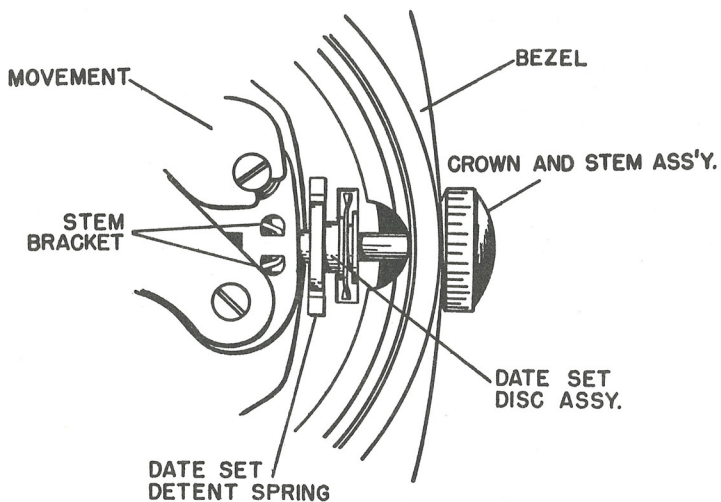


FIG. 1

Disassembly of Movement (model 52)

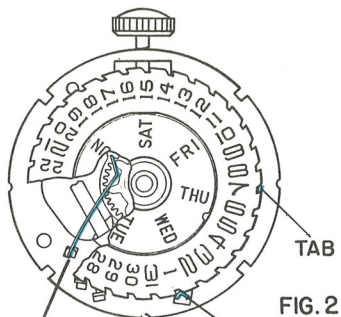


FIG. 2

DAY DETENT SPRING 2573
DATE CLICK SPRING

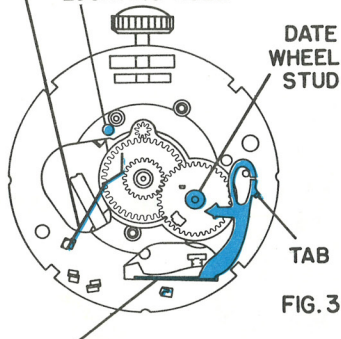


FIG. 3

DATE LEVER 2576

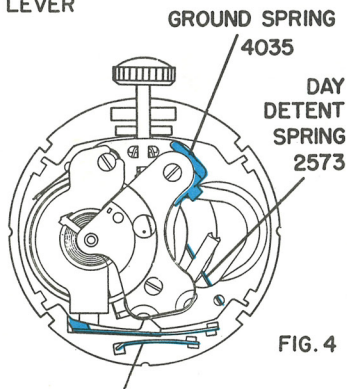


FIG. 4

DATE CLICK SPRING 2576

Remove all hands from assembly. Turn the movement over and while holding the dial in place, bend the four dial legs up just enough to permit removal of the dial from the movement. Turn the movement over so the dial is up and carefully lift off the dial. Note the position of the loose parts under the dial (see figures 2, 3 and 4, and the exploded view on page 52.2) then remove in order:

- Hour Wheel Washer
- Day Frame Assembly
- Date Ring
- Day Detent Spring
- Date Wheel Stud
- Date Wheel
- Hour Wheel
- Center Wheel

It is not necessary to remove the Date Lever and the Date Detent Spring.

The movement assembly may now be disassembled and serviced as detailed on pages 50.5 through 50.12 of the Timex Service Manual.

Reassembly of Movement (model 52)

After the electronic movement has been serviced following the Model 50 procedures, care must be exercised in reassembling the dial and indexing parts of the Model 51 in order to assure proper functioning.

First engage the Setting Stem and Crown into the movement (do not put in the Date Set Disc Assembly and Date Set Detent Spring at this time) and place the movement in the dial up position. Next, assemble in order as shown in figures 2, 3, 4 and the exploded view on page 52.2.

Center Wheel
Hour Wheel
Date Wheel
Date Wheel Stud
Hour Wheel Washer

Insert the Day Detent Spring into the proper slot in the Dial Rest and carefully deflect the end of the spring until it can be temporarily hooked under the edge of the Dial Rest (see figure 5).

DAY DETENT SPRING

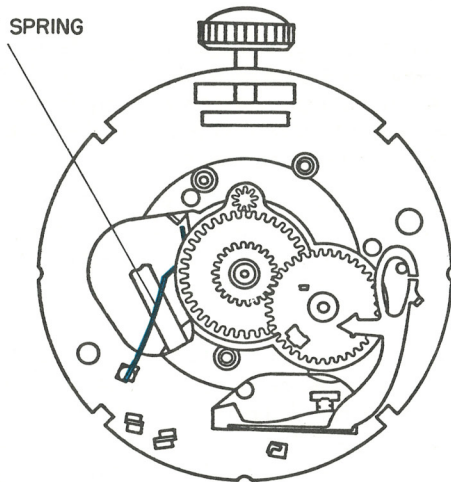


FIG. 5

Reassembly of Movement (model 52)

Visually examine the Date Ring to be sure it is not bent or damaged. Place the Date Ring on the Dial Rest and position it against the end of the Date Click Spring and the tab on the Date Lever. Position the Date Ring as near the center as possible (see figure 2).

Lubrication: The Day and Date mechanisms must be lubricated before the Dial is assembled to the movement. (Elgin M56B oil is the watch lubricant used in the factory). Apply a small amount of watch oil at:

- A. Junction of Date Lever and Guide Stud
- B. Both sides of Nose of Date Lever
- C. Tab of Date Lever (inside surface)
- D. Date Wheel at bearing with Date Wheel Stud
- E. Date Click Spring where it contacts Date Ring
- F. Contact surface of Day Detent Spring

Examine the Day Frame Assembly for damage and be sure the pinion is free to turn.

(Lubrication: The bearing seat of the Date Wheel on outer dimension of the Day Frame should be lubricated with a small amount of watch oil (Elgin M56B is the watch oil used in the factory).) Note the flat on the edge of the Day Frame Assembly. Holding the Day Frame Assembly so the flat is toward the crown and parallel to the slot in the Dial Rest, place it on the movement. Apply light pressure on the Day Frame and move it slightly until it is centered and drops into place on the Date Wheel Stud and into the hole in the Dial Rest (see figure 3):

Carefully place the Dial on the movement so the dial legs are in the slots, then, holding the dial firmly in place, turn the movement over and bend the legs to secure the assembly. With a tweezer or small screw driver, reach through the movement and release the hooked end of the Day Detent Spring.

Pull the Setting Stem and Crown into the set position, then with the movement in the dial down position, turn the crown clockwise and observe the movement of the end of the Date Lever. The end of the lever first deflects under the plate and then will snap out. When the lever snaps out, push in the crown, turn the movement over and assemble the hands to the 12 o'clock position.

Reassembly of Movement (model 52)

Remove the Setting Stem and Crown Assembly (see page 52.3).

Place the dial and movement into the bezel being careful to position so the movement locating tab is in the proper position. Position the reflector ring and replace the crystal. Turn the watch over and place the Date Set Detent Spring in the slot in the Dial Rest. Position the Date Set Disc Assembly on the spring and insert the Setting Stem and Crown through the Bezel, through the Date Set Disc and into the set position in the movement.

(Lubrication: A small amount of watch oil (Elgin M56B is used in the factory) should be applied to one side of the cam lobe and to the bearing point of the cam on the stem).

Examine the Energy Cell Ground Spring in the movement to be sure it is in the proper position to prevent a short circuit and to assure proper grounding. (See figure 4).

Position the Movement Cover in the Bezel, put in the **Timex Energy Cell Type A*** and snap in the case back. Push the crown into the run position and check that watch runs. Test function of the Day change and the Date change.

*Use of an energy cell not meeting TIMEX specifications may cause a Timex watch to malfunction. Timex Energy Cells can be obtained from your local Timex Retailers or Timex authorized Watch Service Center.