

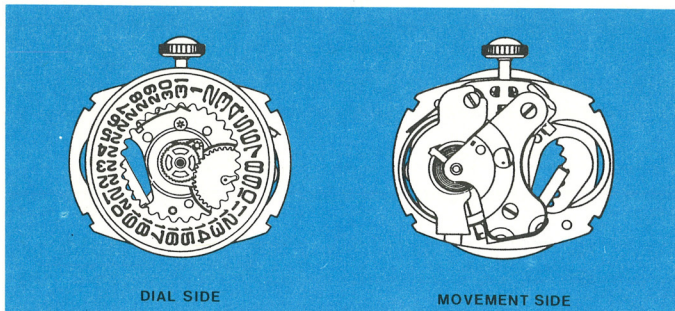
TIMEX model 254

DYNABEAT  
Electric Calendar Watch

9 $\frac{3}{4}$  by 12 $\frac{3}{4}$  lig.  
22.1 by 28.7 mm  
.870 by 1.130 in.

SERVICE MANUAL  
MODEL 254

# The TIMEX® Model 254 Movement



ACTUAL SIZE

The Timex Model 254 is an  $9\frac{3}{4} \times 12\frac{3}{4}$  Ligne high frequency electric calendar movement.

The Model 254 movement is the same as the Model 253 movement except that the calendar mechanism has been added.

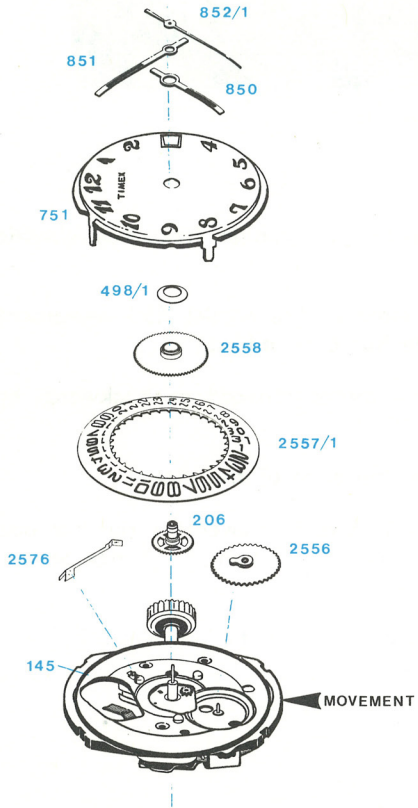
The date can be changed manually, either forward or backward, by rotating the hands through 24 hours.

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).

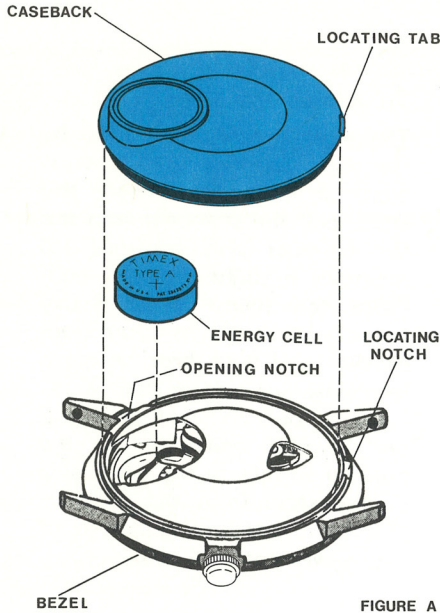
**Caution:** Since watch contains permanent magnets, no attempt should be made to demagnetize the watch.

# The TIMEX® Model 254 Movement (exploded view)



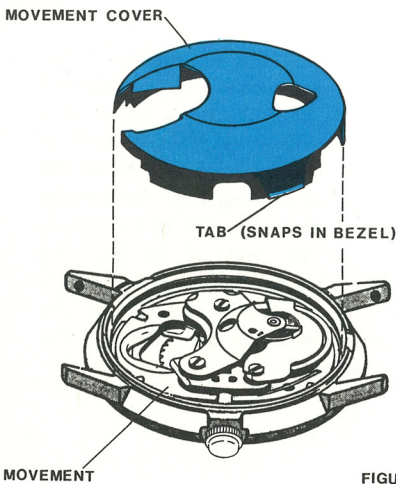
- 145 DIAL REST
- 206 CENTER WHEEL ASS'Y.
- 498/1 HOUR WHEEL WASHER
- 751 DIAL
- 850 HOUR HAND
- 851 MINUTE HAND
- 852/1 SWEEP SECOND HAND
- 2556 DATE WHEEL ASS'Y.
- 2557/1 DATE RING
- 2558 HOUR WHEEL ASS'Y.
- 2576 DETENT SPRING

# Disassembly of the Model 254 Movement



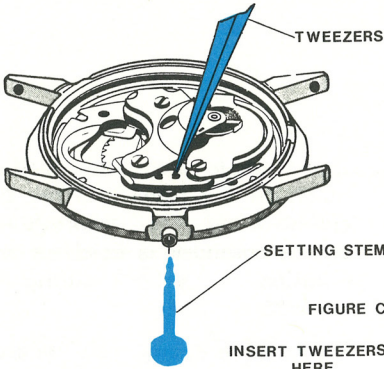
Insert blade into the opening notch on the bezel and pry the caseback off. (The locating tab on the caseback is used for orientation of the back during re-assembly).

Remove the energy cell (energy cell with a voltage of less than 1.5 volts or in service in excess of one year should be replaced).



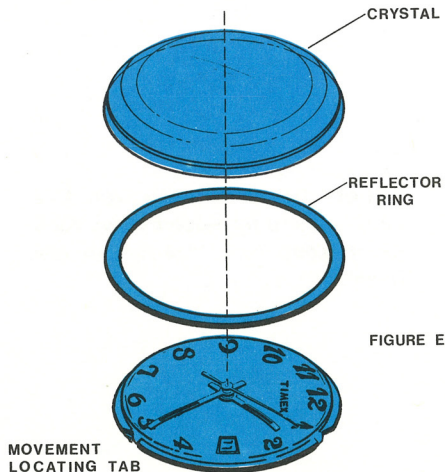
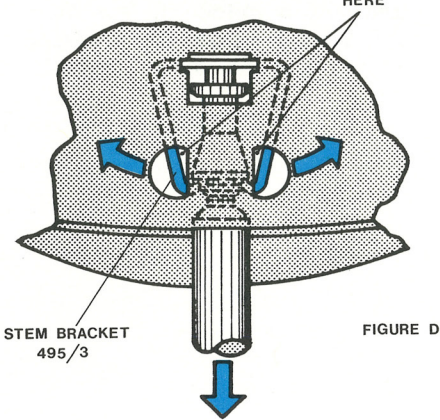
Lift off the movement cover. The cover is held in place by two tabs which snap into recesses in the bezel.

# Disassembly of Movement Cont'd.



To remove the stem

The stem is held in position by the stem bracket (see illustrations at left). To remove the stem, pull the stem out into the set position and continue to maintain a slight outward pull. Place the points of a heavy tweezer into one side of the stem bracket and push bracket aside to release one side of stem. Continue to pull the stem outward and use the points of the the tweezer to release the other side of the stem from the bracket. The stem will now pull free of the movement and case.



After the stem is removed, the movement can be removed through the crystal side of the case. Remove the crystal with a crystal seating tool and then lift the reflector ring and movement free of the case (note the position of the movement locating tabs inside the bezel. Tabs should properly align in notches of the plate when re-assembling the watch.)

# Disassembly of Movement Cont'd.

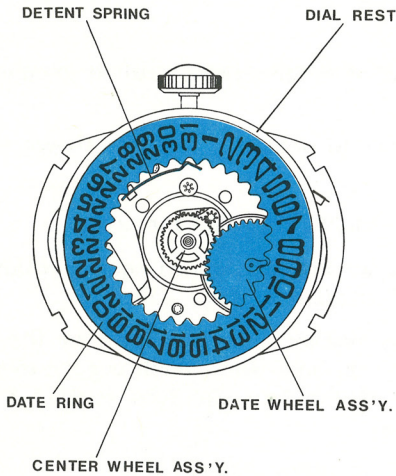


FIGURE F

Remove the sweep second hand and the minute hand.

Bend the four dial tabs enough to free the dial from the movement.

Turn the assembly over and carefully lift the dial off the movement. Note the position of the parts under the dial.

In the illustration at left, note the detent spring which positions the date ring and the finger on the date wheel which indexes the date ring (shown in its position following the date change).

Lift off in order:

- Date Ring
- Date Wheel Assembly
- Center Wheel Assembly
- Detent Spring (note engagement in dial rest.)

With these parts removed, the movement may be disassembled, cleaned and relubricated as described for the Model 253 on Pages 253.3 through Page 253.16.

The date wheel assembly, center wheel assembly and detent spring may be cleaned using standard watch cleaning solutions.

**Caution:** Extreme care must be exercised when cleaning dials, hands, and date rings. Solvent type cleaners may damage the finish on these parts.

# Reassembly of the Model 254 Movement

After the basic movement is cleaned, lubricated and reassembled as described on Page 253.3 through 253.16, the reassembly of the Model 254 is as follows:

Lubricate the date wheel post and the end of the detent spring where it engages the date ring using non spreading type oil (Moebius Synt-a-lube is used in the factory).

Replace detent spring in dial rest.

Assemble date wheel assembly.

Assemble date ring, deflect end of detent spring until it engages tooth of date ring.

Position finger of date wheel next to date ring tooth as shown on Page 254.5.

## TO POSITION HANDS FOR PROPER DATE CHANGE

First — Check that finger on date wheel is positioned against a date ring tooth as shown in illustration on Page 254.5.

Next — Replace the dial assembly holding the hour hand at the 2 o'clock position (make certain hour wheel teeth engage minute pinion teeth) and bend the four dial tabs to hold the assembly firmly in position.

Finally — Replace the minute hand and sweep second hand.

Insert crown and stem assembly and rotate hands clockwise to assure that date change is completed by 2 o'clock.

Remove crown and stem assembly.

Place assembly into bezel being sure notches in plate engage the tabs inside the bezel.

Position reflector ring on top of dial.

Insert crystal using crystal insertion tool.

Insert crown and stem assembly thru bezel with a twisting motion to assure engagement in the bracket.

Insert movement cover and snap into bezel.

Insert fresh Timex type A energy cell\* and snap case back into position. Push crown in and watch will start immediately. If not, slight finger agitation of the watch may be necessary to start the mechanism.

\*Use of energy cell not meeting Timex specifications may cause the watch to malfunction. Do not dispose of energy cell in fire.