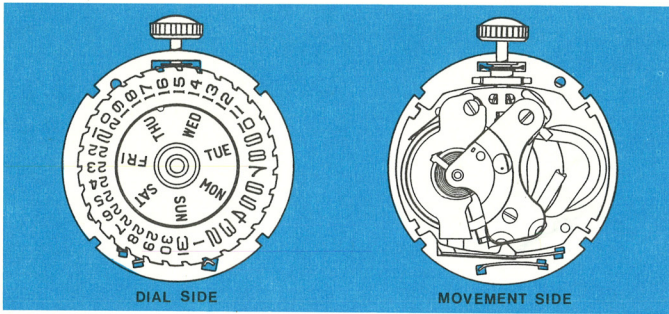


TIMEX model 255

DYNABEAT
Electric Day-Date Watch

13½ lig.
30.5 mm
1.200 in.

The TIMEX® Model 255 Movement



ACTUAL SIZE

Timex Model 255 is a 13½ Ligne Round high frequency electric day and date movement.

The basic Model 255 movement is similar to the Model 253 movement but differences exist in order to provide the day and date features.

The date can be advanced quickly without changing the day by rotating the crown counterclockwise while in the run position.

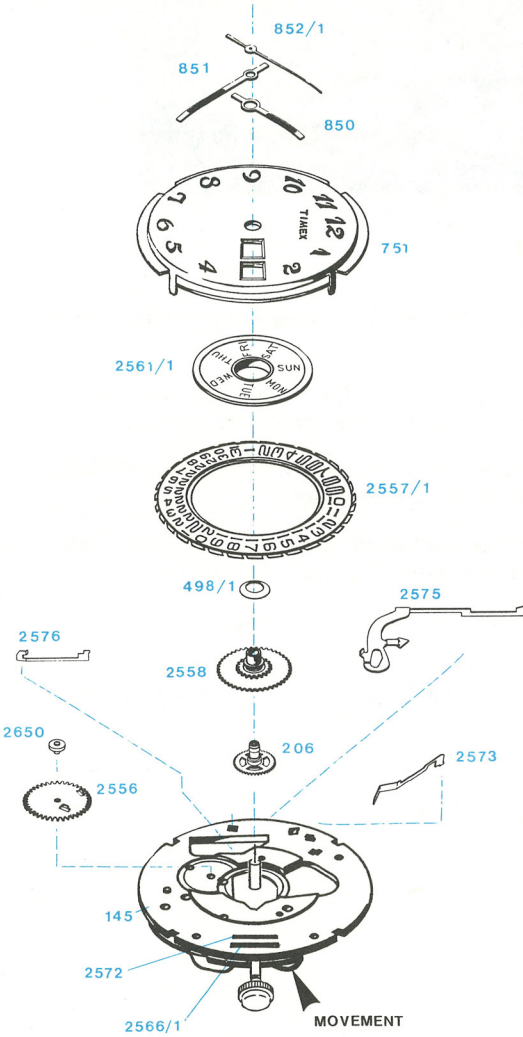
The day may be changed forward or backward by pulling the crown out into the set position and rotating the hands through 24 hours.

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).

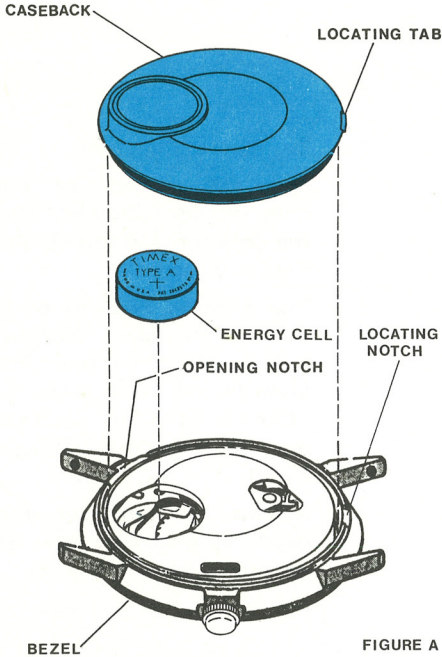
Caution: Since watch contains permanent magnets, no attempt should be made to demagnetize the watch.

The TIMEX® Model 255 Movement (exploded view)



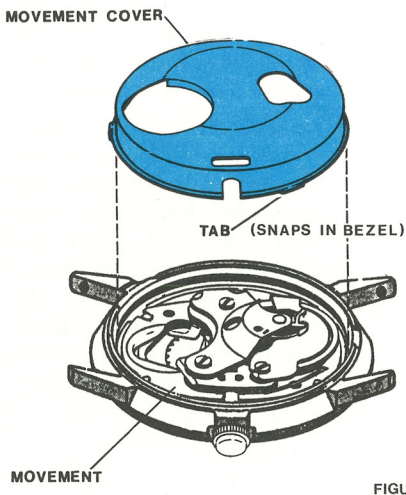
- 145 DIAL REST
- 206 CENTER WHEEL ASS'Y.
- 498/1 HOUR WHEEL WASHER
- 751 DIAL
- 850 HOUR HAND
- 851 MINUTE HAND
- 852/1 SWEEP SECOND HAND
- 2556 DATE WHEEL
- 2557/1 DATE RING
- 2558 HOUR WHEEL ASS'Y.
- 2561/1 DAY FRAME ASS'Y.
- 2573 DAY DETENT SPRING
- 2575 DATE LEVER
- 2576 DATE CLICK SPRING
- 2650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

Disassembly of the Model 255 Movement



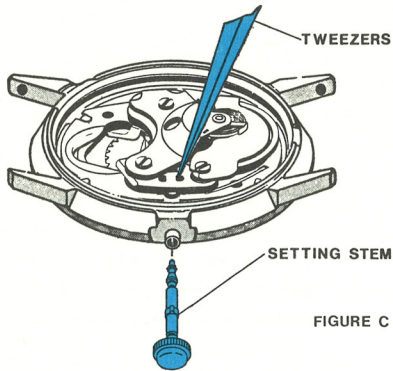
Insert blade into the opening notch on the bezel and pry the case back off. (The locating tab on the caseback is used for orientation of the back during re-assembly.)

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.

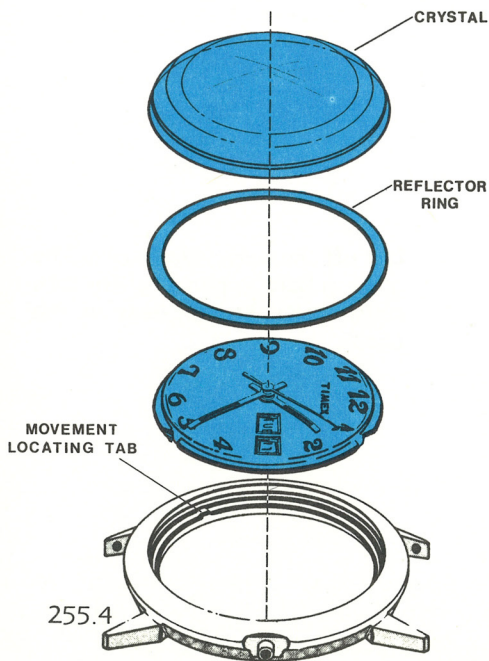
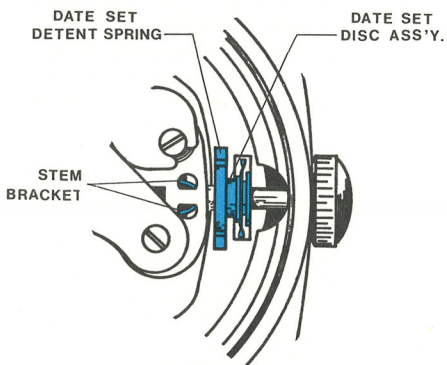


To remove the stem.

Note the position of the date set disc assembly and the date set disc spring. See Figure C and D.

The stem is held in position by the stem bracket. Release the stem from the Stem bracket with tweezers. (Details of stem removal are described on Page 253.4)

Remove the date set disc assembly and the date set detent spring.



After these parts are 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 (See Figure E). Note the position of the movement locating tabs inside the bezel. Tabs should be properly aligned in notches of the plate when reassembling the watch.

Disassembly of Movement Cont'd.

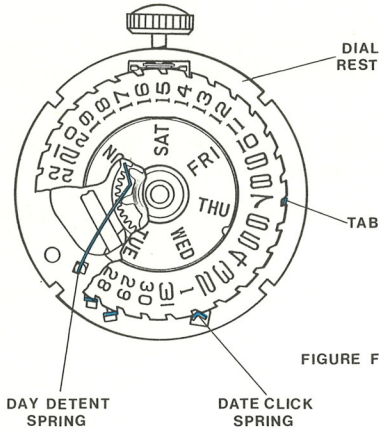


FIGURE F

Remove all hands.

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 (see figures F, G and H).

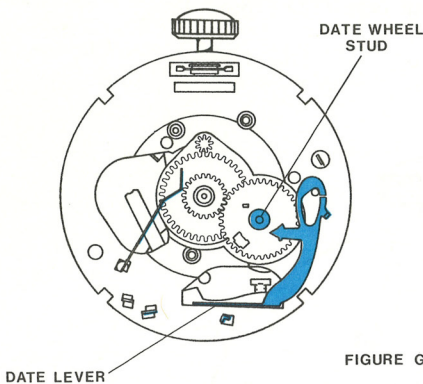


FIGURE G

Remove in order:

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

The date lever and the date detent spring may be removed but it is not necessary.

The movement assembly may now be disassembled, cleaned and serviced as detailed on Pages 253.3 through 253.16 of the Timex Service Manual.

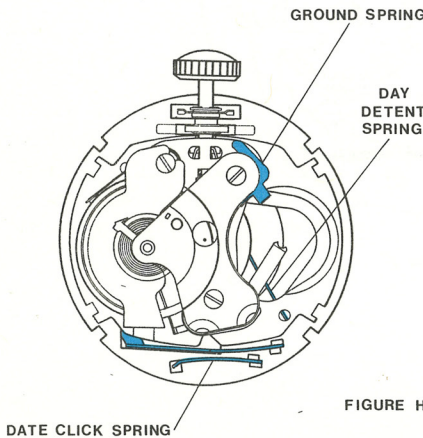


FIGURE H

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 255 Movement

After the basic movement has been cleaned and lubricated following the procedures for the Model 253, the Model 255 movement is reassembled as follows:

Assemble crown and stem assembly to movement (do not put in date set disc assembly or date set detent spring at this time.)

Assemble in order as shown in Figures F, G and H and the exploded view on Page 255.2.

- Center Wheel Assembly
- Hour Wheel Assembly
- 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 J).

Note: Extreme care must be exercised in reassembling the dial and indexing parts of the Model 255 to assure proper functioning.

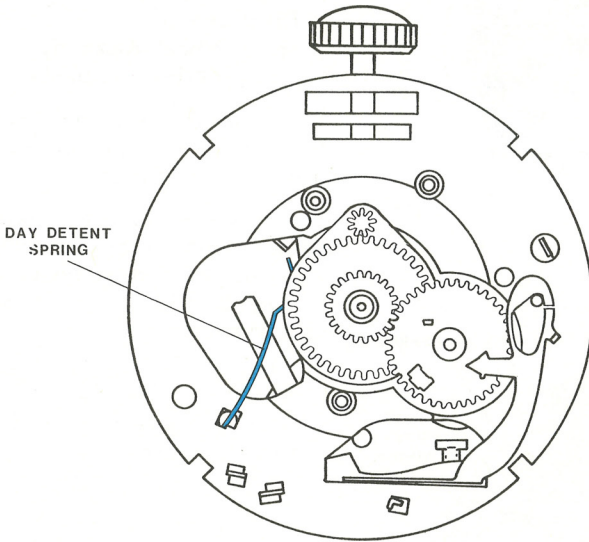
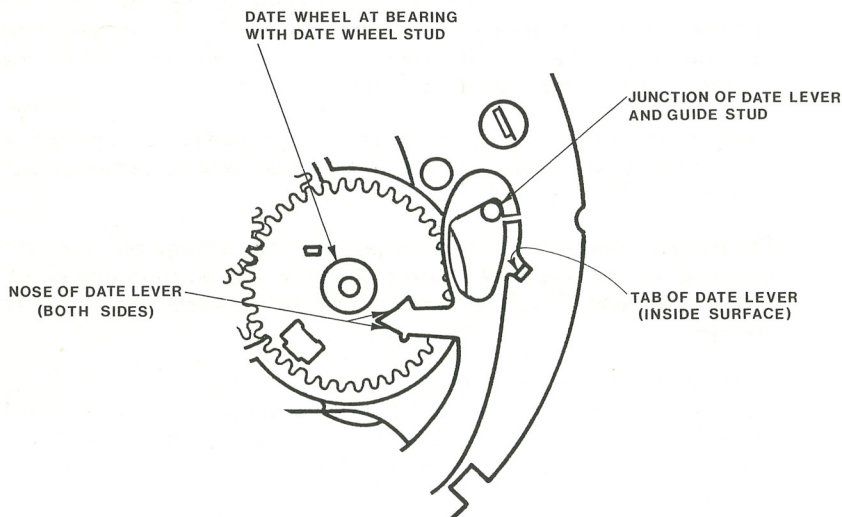


FIGURE J

Reassembly of the Model 255 Movement

Lubrication: The day and date mechanisms must be lubricated before the dial is assembled to the movement. Apply a small amount of non-spreading watch oil as follows (Moebius Synt-a-lube is used in the factory):

- 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.



Visually examine date ring to be sure it is not bent or damaged. Place date ring on dial rest and position it against the end of the date click spring and the tab on date lever. Position date ring as near the center as possible. (See Figure F)

Examine day frame assembly for damage and be sure pinion is free to turn. (The bearing seat of the date wheel on outer dimension of the day frame should be lubricated with a small amount of non-spreading watch oil.) Note the flat on edge of the day frame assembly. Holding the day frame assembly so flat is toward the crown and parallel to the slot in the dial rest, place it on the movement. Apply slight pressure on day frame and move it slightly until it is centered and drops into place on date wheel stud and into the hole in dial rest (See Figure G).

Carefully place dial on movement so the dial legs are in slots, then, holding dial firmly in place, turn movement over and bend 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 so it will engage teeth of day frame assembly.

Reassembly of the Model 255 Movement

Pull setting stem with crown into set position, then, with movement in dial down position, turn crown clockwise and observe movement of the end of the date lever. The end of the date lever first deflects under plate and then will snap out. When date lever snaps out, push in crown, turn movement over and assemble hands at the 12 o'clock position.

Remove setting stem with crown assembly (see Page 253.4).

Place dial and movement assembly into bezel being careful to position so the movement locating tab is in the proper position. Position reflector ring and replace crystal. Turn watch over and place the date set detent spring in slot in dial rest. Position date set disc assembly on the spring and insert setting stem and crown through bezel, through date set disc, date set detent spring, and into the set position in the movement. (A small amount of non-spreading watch oil 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 movement to be sure it is in proper position to prevent a short circuit and to assure proper grounding. (See Figure H).

Position movement cover in bezel, put in Timex energy cell Type A* and snap in the case back. Push crown into run position and check that watch runs. Check function of the day change and the date change.

*Use of 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. Do not dispose of energy cell in fire.