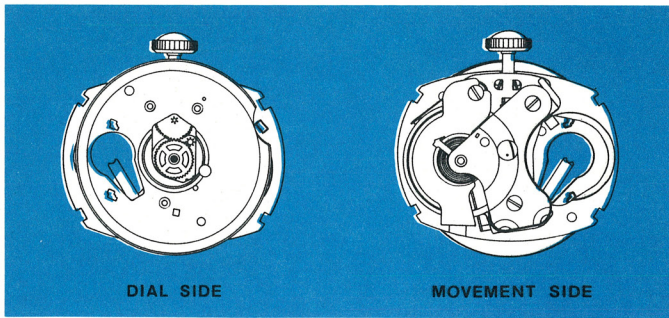


TIMEX® Model 260

SERVICE MANUAL
MODEL 260

11- $\frac{3}{4}$ x 12- $\frac{3}{4}$ lig.
26.51 x 28.76 mm
1.046 x 1.132 in.

The **TIMEX**[®] Model 260 Movement



ACTUAL SIZE

The Timex Model 260 is an 11-3/4 by 12-3/4 ligne electric watch movement featuring a high frequency balance system.

The Model 260 is powered by a Timex Type "A" energy cell which provides power for at least one year.

The Model 260 operates at a rate of 28,800 beats per hour. The rate can be checked on all conventional watch rate recorders having a setting of 28,800 beats per hour or on some recorders using a setting for 14,400 or 21,600 beats per hour.

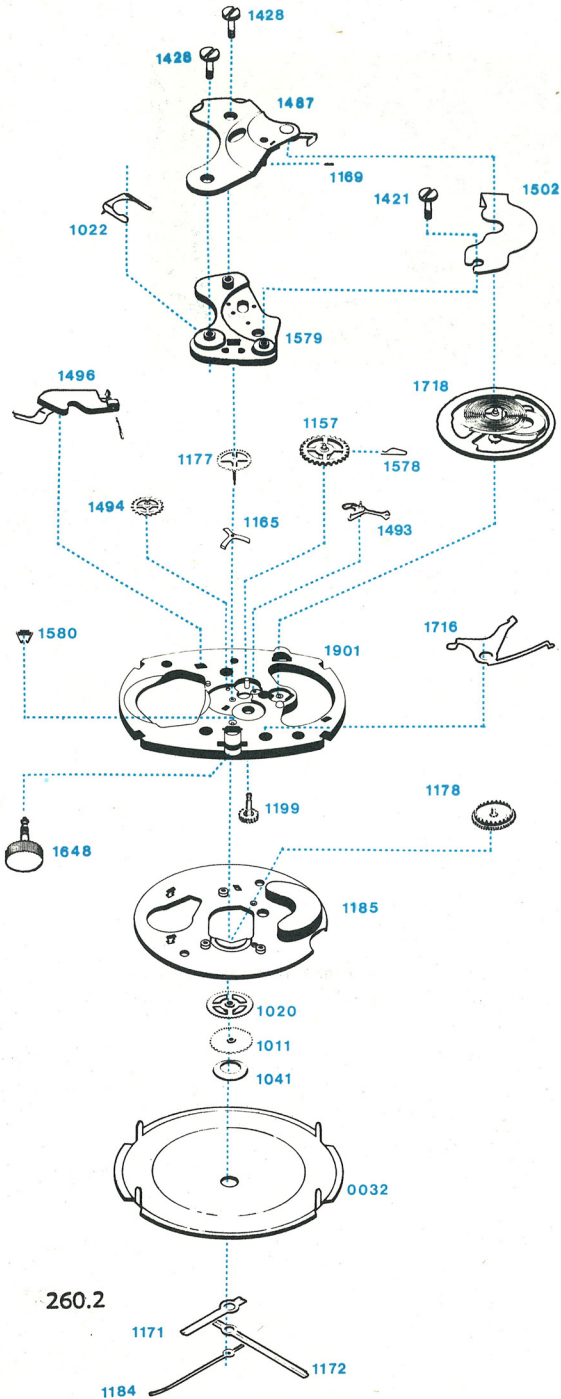
To observe the operation of the Model 260, follow the instructions detailed on page 253.8 through 253.14 for the Model 253 movement.

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.

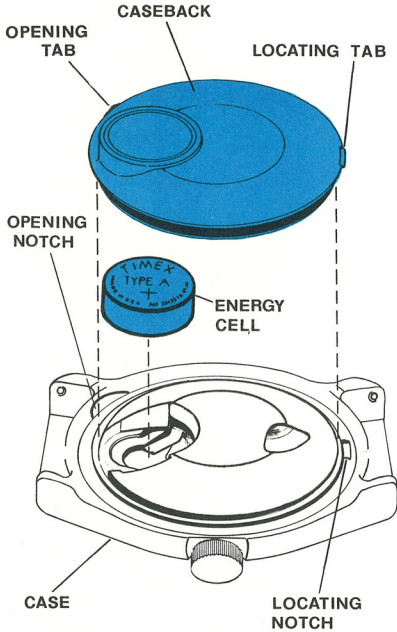
The **TIMEX**® Model 260 Movement (exploded view)



- 0032 DIAL
- 1011 HOUR WHEEL ASS'Y.
- 1020 CENTER WHEEL ASS'Y.
- 1022 CONNECTOR, ENERGY CELL
- 1041 HOUR WHEEL WASHER
- 1157 THIRD WHEEL ASS'Y.
- 1165 FRICTION WASHER
- 1169 HAIRSPRING WEDGE PIN
- 1171 HOUR HAND
- 1172 MINUTE HAND
- 1177 SECONDS WHEEL ASS'Y.
- 1178 MINUTE WHEEL ASS'Y.
- 1184 SWEEP SECOND HAND
- 1185 DIAL REST
- 1199 FRICTION PINION
- 1421 SHUNT BRIDGE SCREW
- 1428 BALANCE BRIDGE SCREW
- 1487 BALANCE BRIDGE ASS'Y.
- 1493 INDEX LEVER ASS'Y.
- 1494 INDEX WHEEL ASS'Y.
- 1496 CONTACT SPRING ASS'Y.
- 1502 SHUNT BRIDGE
- 1578 FRICTION SPRING
- 1579 TRAIN WHEEL BRIDGE ASS'Y.
- 1580 STEM BRACKET
- 1648 SETTING STEM WITH CROWN
- 1716 STOP LEVER
- 1718 BALANCE WHEEL ASSY
- 1901 PLATE ASS'Y.

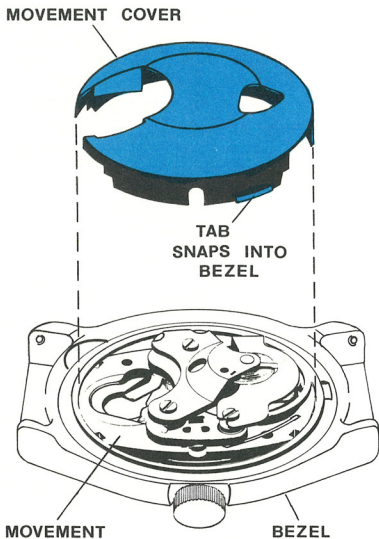
260.2

Disassembly of the Model 260 Movement



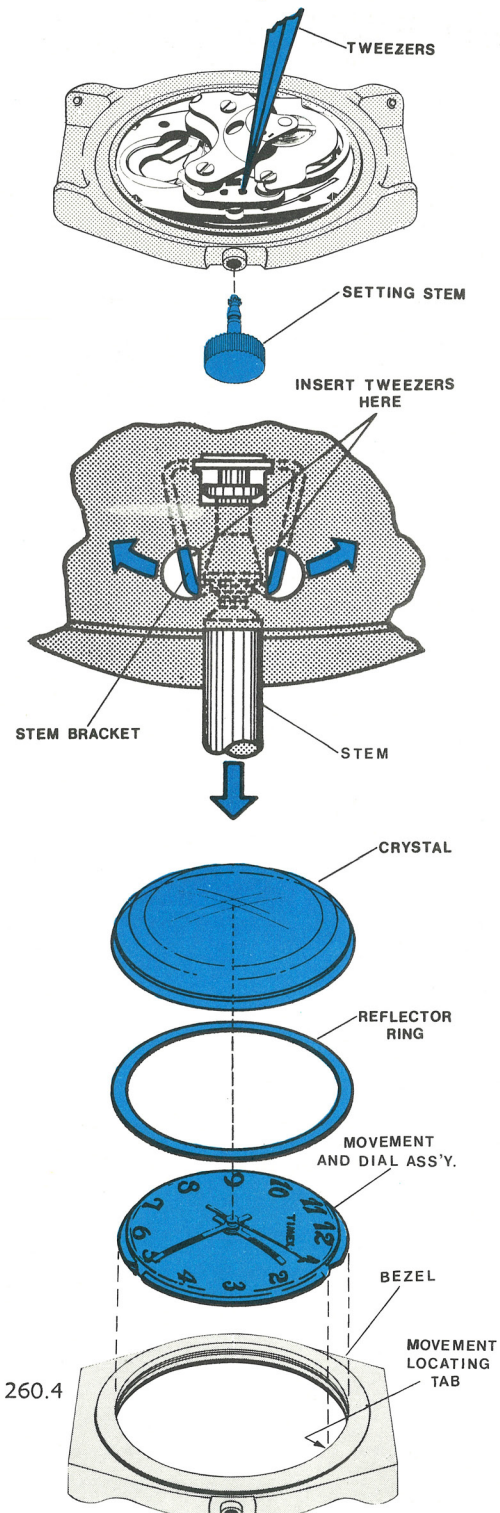
Insert blade into the opening on the bezel and pry the caseback off as shown at left. (The locating tab on the caseback is used for orientation of the back during reassembly).

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 as shown at left. The cover is held in place by two tabs which snap into recesses in the bezel.

Disassembly of the Model 260 Movement



Remove the setting stem with crown:

The stem is held in position by the stem bracket (see illustrations to 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 tweezor 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 tweezor to release the other side of the stem from the bracket. The stem will now pull free of the movement and bezel.

To remove movement:

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

Disassembly of the Model 260 Movement

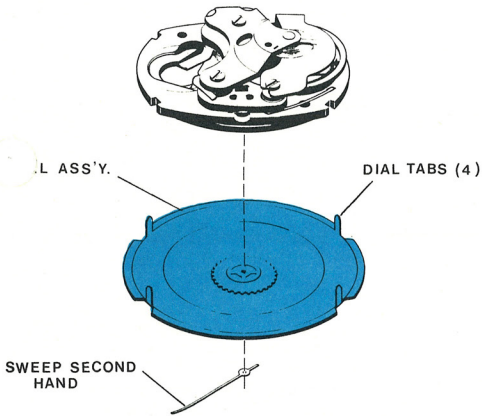


FIGURE A

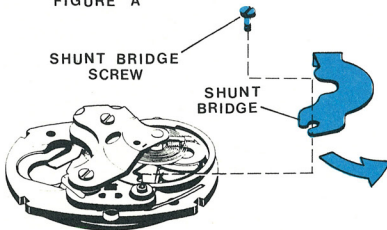


FIGURE B

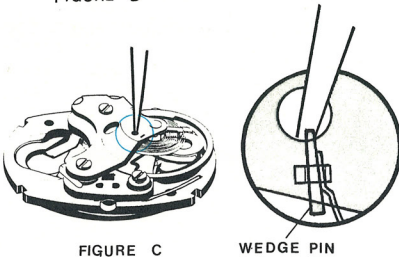


FIGURE C

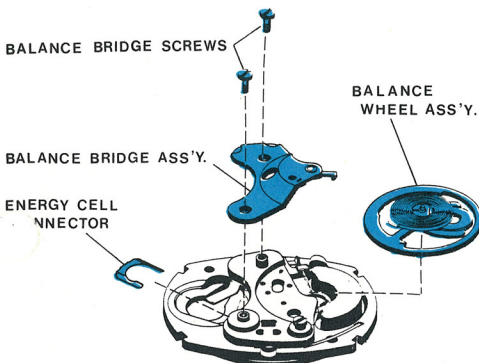


FIGURE D

See Figure A.

Remove all hands.

Straighten dial tabs enough to remove the dial from the movement. Turn assembly over and lift off dial. Lift off Hour Wheel Washer and Hour Wheel Assembly.

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 260.9.

See Figure B.

Turn movement over and remove shunt bridge screw.

Lift screw end of shunt bridge fully and carefully slide shunt bridge from movement (note Tab on end of shunt bridge which engages the plate). Replace shunt bridge screw. See Figure C and Figure D.

1. Remove the hairspring wedge pin, do not distort either the pin or the hairspring. Note hole in the balance bridge which permits access to the wedge pin.*
2. Rotate the balance wheel carefully until the hairspring tail is free of the hairspring bracket and the regulator.*

3. Note position of energy cell connector by sliding out, as shown in Figure D. Remove the two balance bridge screws, lift off the balance bridge assembly and carefully remove the balance wheel assembly.*

* If wedge pin cannot be loosened through hole, remove the two balance bridge screws and carefully remove the balance bridge and balance wheel assembly from movement to permit access to the wedge pin.

Cleaning the Model 260 Movement

The best way to clean the Model 260 movement is to disassemble the movement only to the point of removing the balance bridge and the balance wheel assembly. The movement should be placed in the watch cleaning machine (including ultrasonic baths), preferably on edge to insure proper drainage of the fluids. The movement must be immersed in two sets of rinsing fluid. The final rinsing solution must be absolutely clean. After cleaning is completed, the movement must be thoroughly dried.

The balance wheel assembly must be cleaned separately in order to prevent damage to the balance staff points, the hairspring and the coil.

Other metal parts may be cleaned in the same manner as the movement.

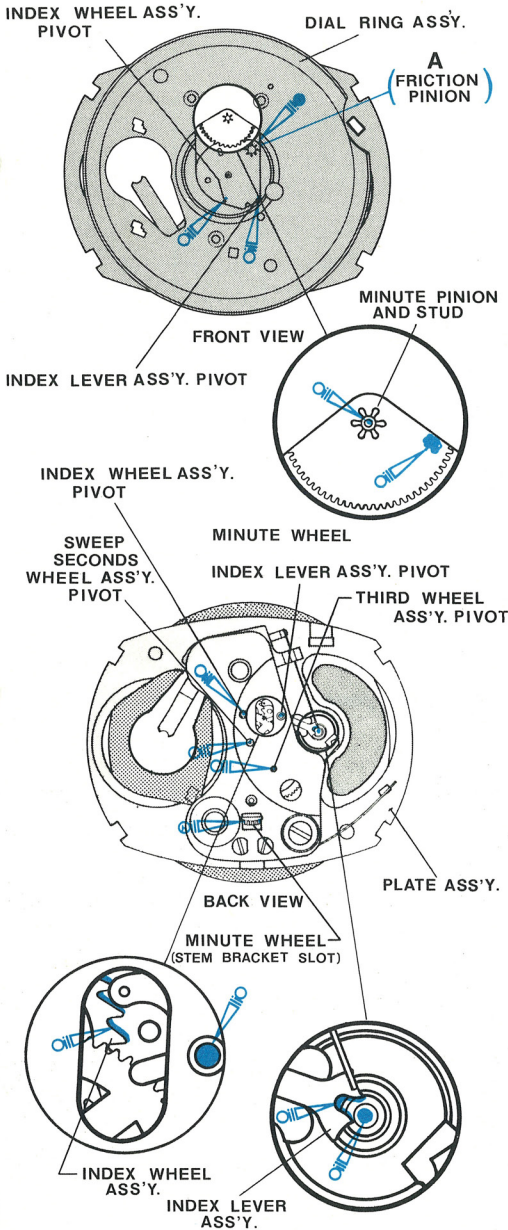
Only standard watch cleaning solutions should be used in the above cleaning procedures.

Caution 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 some standard watch cleaning solutions.

For lubrication instructions see Page 260.7.

For reassembly instructions see Page 260.9.

Lubricating the Model 260 Movement



The Timex Model 260 movement should be lubricated using only high grade watch lubricants.

Apply non-spreading type oil (Moebius Synt-A-Lube Oil is used in the factory) to the following points (see front and back views at left):

Minute Pinion Stud at top face of minute pinion

Both Pivots of index lever assembly
Both Pivots of index wheel assembly
Both Pivots of sweep seconds wheel assembly

Back Pivot of third wheel assembly
Junction of Minute Wheel with Dial Ring Assembly

Junction of Minute Wheel with Plate Assembly. (Through stem bracket slot in train bridge with stem in set position)

Index Wheel on driving face of three teeth

Index Lever Fork where it engages impulse pin

Friction Washer and Sweep Second Pinion bearing surface at their junction

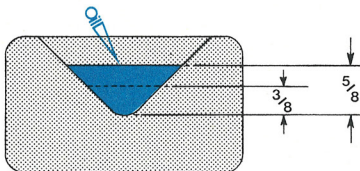
Fill V-Conic Bearings $3/8$ to $5/8$ full, by depth.

Apply spreading type oil (Woods AAAA Oil is used in the factory) to Friction Pinion at junction with plate assembly (Point A).

Apply watch grease (Hamilton PML is used in the factory) to set stem teeth and bearing surface (below teeth) prior to assembly of the stem to the watch head.

On water-resistant watch models, apply grease (Moebius special lubricant is used in the factory) to $1/2$ of exposed circumference of crown gasket before assembly of the stem to the watch head.

For reassembly instructions, see Page 260.9.



"V-CONIC BEARING"

-  MOEBIUS SYNT-A-LUBE
-  WOODS AAAA OIL
-  HAMILTON PML GREASE

Reassembly of the Model 260 Movement

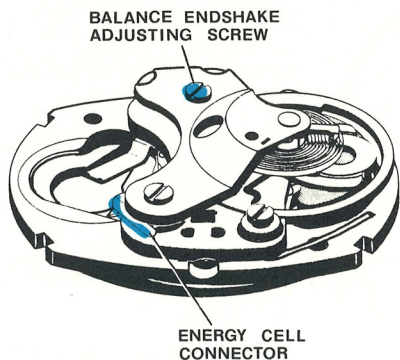


FIGURE E

If the complete movement is taken apart, the correct order for reassembly is as described on Page 253.15.

To reassemble after the suggested cleaning procedure, insert the balance wheel assembly (impulse-disc end) into the "V-conic" bearing in the plate assembly. Assemble the balance bridge and the two (2) balance bridge screws being careful to assure proper engagement of the balance pivots in their respective "V-conic" bearing **DO NOT TIGHTEN** the balance end shake adjusting screws completely (see Figure E). It should be tightened only enough to hold both balance pivots securely engaged in the "V-conic" bearings.

Slide the energy cell connector into place.

Reassembly of the Model 260 Movement

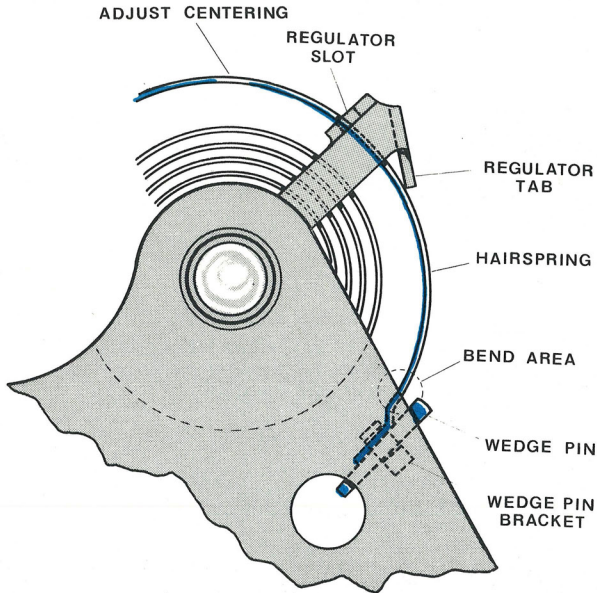


FIGURE F

Insert the end of the hairspring into the slot in the regulator and then into the hole in the hairspring bracket by rotating the balance wheel and guiding the end of the spring. Check that the impulse pin is in the slot of the index lever and then secure the hairspring in the bracket with the wedge pin.

Adjust the balance wheel assembly end shake cautiously by tightening the balance end shake adjusting screws. Do Not adjust too tightly because excess pressure can damage the pivots of the balance staff.

Loosen the shunt bridge screw, slide the shunt bridge under the hairspring, and secure with shunt bridge screw.

Check for adjustment of hairspring and adjust if necessary.

The hairspring should be leveled, centered and in light permanent contact with the inside edge of regulator slot and the regulator tab as shown in Figure F. Hairspring must not leave the described contact points at any time with regulator within normal regulating range.

Hairspring can be adjusted for proper level by grasping spring as close as possible to pinning point. To adjust centering—grasp 160° to 180° from pinning point. To adjust hairspring to remain in permanent contact with regulator slot and tab, carefully bend tab towards center of spring until desired condition is obtained.

Reassembly of the Model 260 Movement

After the basic movement has been cleaned, lubricated and assembled, the following procedure should be followed.

Reassemble in order:

Center Wheel Assembly

Hour Wheel Assembly

Hour Wheel Washer

Carefully orient Dial on the movement so the dial tabs engage the notches in the Dial Plate assembly, then, holding the dial firmly in place, turn the movement over and bend the tabs to secure the assembly.
Assemble hands at the 12 o'clock position.

Drive sweep second hand onto end of sweep second staff, being sure the hand is below the chamfer on the staff (see Figure G).

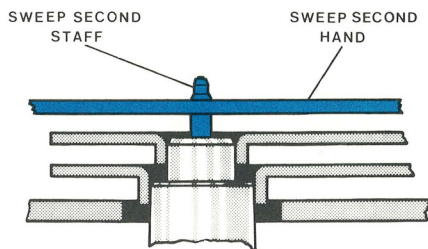


FIGURE G

Place the movement (and dial assembly) in the case, being careful to position it on the locating tab. Position reflector ring on dial and replace the crystal to secure the assembly.

Insert the crown and stem assembly with a turning motion to assure engagement in the stem bracket.

Put fresh Timex energy cell Type "A" in place (Positive (+) side up), position caseback and snap closed.

Push crown in and watch will start. If it does not start, slight rotation of the watch may be necessary to restart the mechanism.