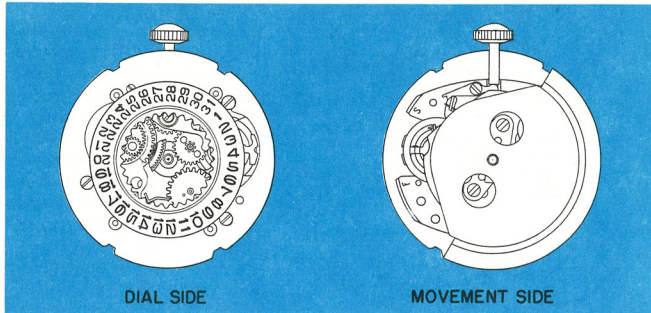


TIMEX model 32

calendar watch

13 lig.  
29.08 mm  
1.145 in.

## the TIMEX Model 32 Movement



The TIMEX Model 32 movement is a new thin self-winding calendar watch utilizing the basic construction of the Model 24. A planetary gear winding system located on the dial plate provides a compact method of obtaining the necessary gear reduction between the self-winding weight and the mainspring.

The Reserve power of the mainspring when the watch is worn by a normally active person is sufficient to run the watch for a full day.

The calendar mechanism is similar to that used in the Model 25.

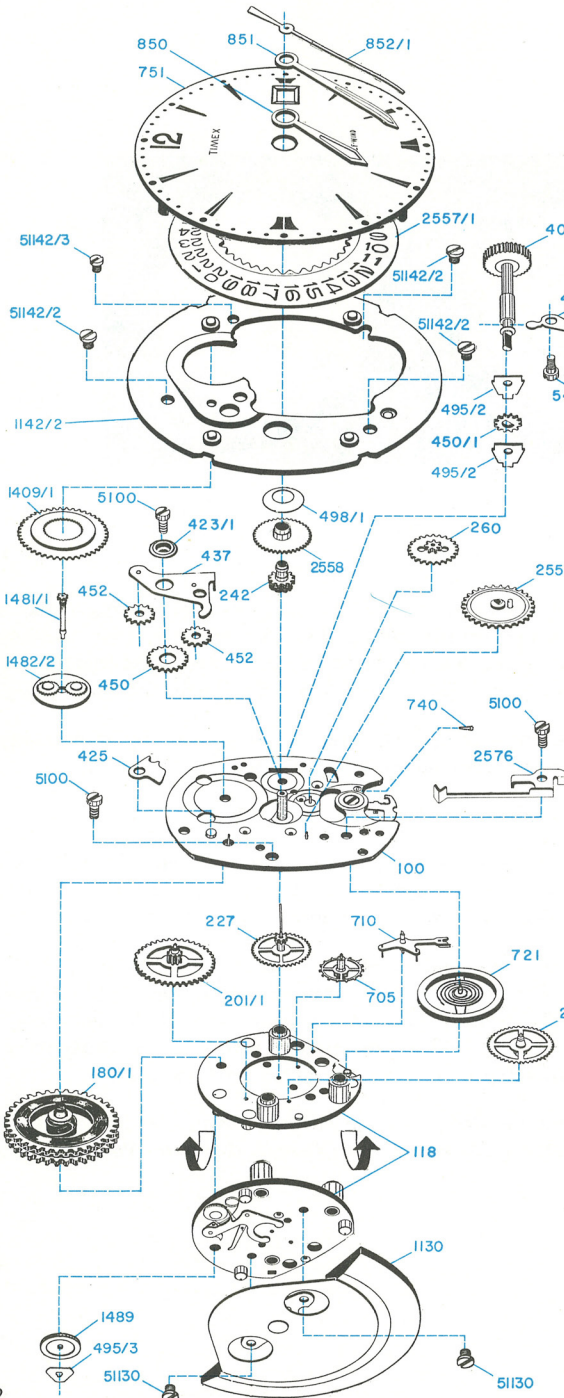
To clean the Model 32 movement, it is necessary to remove only the following parts: Sweep Second Hand, Dial, Date Ring, Date Wheel Assembly, Rotor, Mounting Ring, Planetary Gear System and Balance.

TIMEX has found that the best method of cleaning is with only the aforementioned parts removed. The cleaning fluid, while removing any contamination from the movement will also remove oil from the gear train, pivots and holes. The illustrations on Pages 32.3 and 32.4 show proper procedures for disassembly. Cleaning, reoilng and reassembly procedures are given on Page 32.5.

If further dismantling is required, follow the instructions for the Model 25 movement. An exploded view of the Model 32 movement is shown on Page 32.2 to guide reassembly.

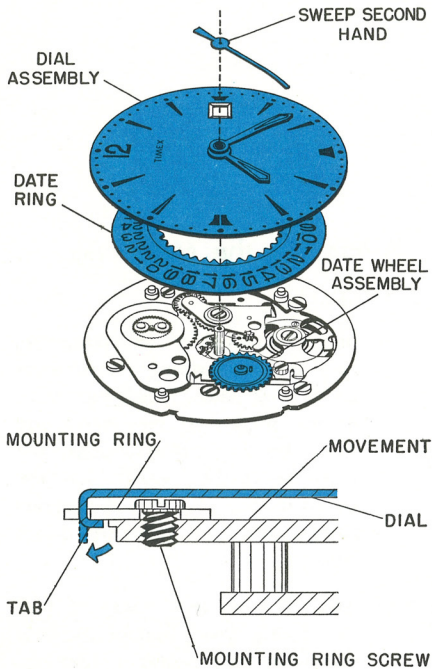


# the TIMEX model 32 movement (exploded view)



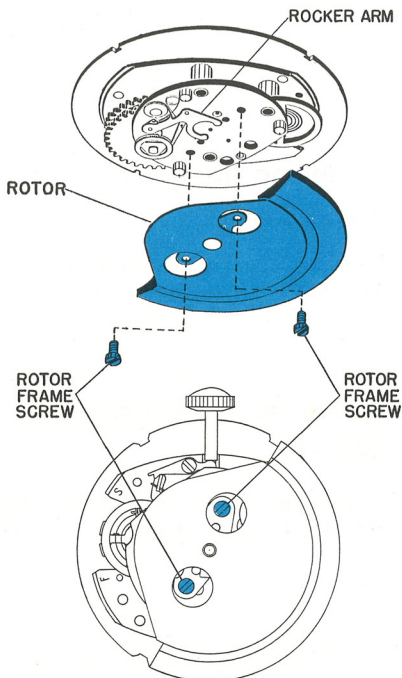
- 100 DIAL PLATE ASS'Y.
- 118 MOVEMENT PLATE ASS'Y.
- 180/1 BARREL ASS'Y.
- 201/1 2ND. WHEEL ASS'Y.
- 210 3RD. WHEEL ASS'Y.
- 227 4TH. WHEEL ASS'Y.
- 242 CANNON PINION ASS'Y.
- 260 MINUTE. WHEEL ASS'Y.
- 401/1 CROWN & STEM ASS'Y.
- 423/1 ROCKING BAR BUSHING
- 425 CLICK
- 437 ROCKING BAR ASS'Y.
- 443 SET LEVER
- 450 INTERMEDIATE WIND PINION
- 450/1 WINDING STEM PINION
- 452 WIND & SET PINION
- 495/2 WINDING BRIDGE
- 495/3 WINDING RATCHET WHEEL LOCK WASHER
- 498/1 HOUR WHEEL WASHER
- 705 ESCAPE WHEEL ASS'Y.
- 710 PALLET LEVER ASS'Y.
- 721 BALANCE ASS'Y.
- 740 HAIRSPRING WEDGE PIN
- 751 DIAL
- 850 HOUR HAND
- 851 MINUTE HAND
- 852/1 SWEEP SECOND HAND
- 1130 ROTOR PLATE ASS'Y.
- 1142/2 MOUNTING RING
- 1409/1 RATCHET WHEEL
- 1481/1 PLANET WIND PINION
- 1482/2 PLANET PINION ASS'Y.
- 1489 WINDING RATCHET WHEEL ASS'Y.
- 2556 DATE WHEEL ASS'Y.
- 2557/1 DATE RING
- 2558 HOUR WHEEL
- 2576 DETENT SPRING
- 5100 PILLAR SCREW
- 5443 SET LEVER SCREW
- 51130 ROTOR PLATE SCREW
- 51142/2 MOUNTING RING SCREW
- 51142/3 MOUNTING RING SCREW

# Disassembly of Movement for Cleaning (model 32)



## Removing the dial, date ring, date wheel assembly and hands.

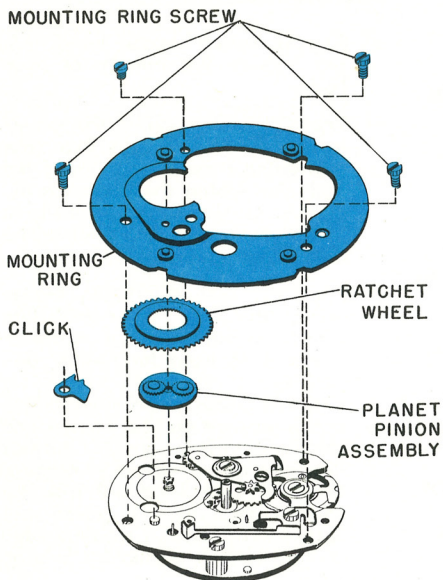
- Remove sweep second hand. Do not remove the minute or hour hand.
- The dial is clamped to the movement mounting ring by four tabs protruding from the outside of the dial. Straighten these tabs as indicated by arrow and dotted lines in the illustration and remove the entire dial assembly.
- Once the dial is off the movement, the date ring and date wheel assembly can be removed. There is no need for further disassembly of the dial assembly for cleaning unless severe contamination is present on the friction and cannon pinions. Should further disassembly be necessary, removal of the minute hand will free the friction and cannon pinion assembly. The friction pinion is held in the cannon pinion by a snap fit.



## Removing the Rotor

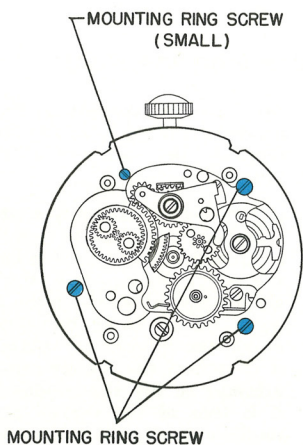
- Invert the movement so that the movement plate is facing you and remove the two rotor frame screws.
- Lift the rotor assembly slightly to free the dowels which position it. Since the rocker arm fits between the rotor frame and the rotor weight assembly, the rotor weight must be removed by sliding it along the movement plate until it is free of the rocker arm. **Any attempt to lift the weight before it is free of the rocker arm will result in damage to the movement.**

## Disassembly of Movement for Cleaning Cont'd.



### Removing the Mounting Ring

- Before removal of the mounting ring, the mainspring power must be fully let down. Grasp the crown in the fingers of one hand and move the click out of engagement with the ratchet wheel. Let the crown revolve slowly in the fingers being careful not to let the crown slip.
- After letting the power of the mainspring down, remove the four mounting ring screws. Next remove the mounting ring ratchet wheel, planet pinion assembly and click.



### Removing the Crown and Stem

Proceed as directed on Page 25.4 for the Model 25 movement.

### Removing the Balance Wheel

Proceed as directed on Page 25.5 for the Model 25 movement.



## Cleaning and Lubricating the Model 32

After disassembly of the sweep second hand, dial, date ring, date wheel assembly, rotor, mounting ring, planetary gear system, click and balance, the movement is ready to be cleaned. The same instructions for cleaning as given for the Model 25 movement apply to the Model 32. Care should be exercised to insure complete cleaning of all self-winding parts.

The same reoiling instructions given for the Model 25 movement apply to the Model 32. In addition, all moving parts of the self-winding and planetary gear system should be lubricated.

As noted on the Model 25 movement, the mainspring is permanently lubricated and should **not** be oiled.

## Reassembly of the Model 32

Use the disassembly procedures for the Model 32 and 25 movements as a guide for reassembly. Reassembly procedures for the balance wheel and positioning of the hairspring are given on page 25.7. Procedures for date mechanism re-assembly and positioning of sweep second hand are given on page 25.8.

## Helpful Hints

1. Oiling — When oiling the movement plate balance cup, to facilitate the precise entry of the oil to the bottom of the cup, insert the oiler through the dial plate balance screw hole before the balance screw is assembled.
2. A drop of oil applied to both sides of the stem wind pinion before assembly will hold the pinion and its bridges together, thus facilitating assembly, should complete dismantling of the movement be necessary.
3. Model 32 Movement — Examine the action of the rotor on the winding frame. Be certain the staking is secure and that the rotor is free to make a complete revolution without interference. Check that the spring which holds the movement in the bezel is properly located in the groove in the Bezel.

Check the freeness of the rocker arm and the clicks which are attached to it. Check that the yoke of the rocker arm slides freely on the cam attached to the self-wind weight without interference.

Check the action of the winding ratchet wheel. Each rotation of the rotor should move this wheel forward approximately 6 teeth.

Check the action of the mainspring and the barrel. The mainspring should have 5 to 6 full turns before the sliding tail begins to revolve in the barrel.