

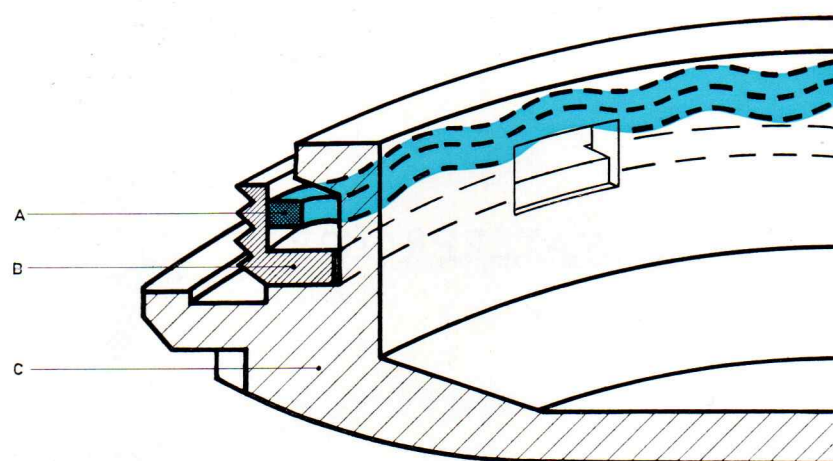
NEW SUPER-WATERPROOF
TISSOT
CASES FOR T12 WATCHES

With a view to equipping their T 12 models with high-resistance, long-service waterproof cases, TISSOT are introducing a new patented super waterproof case system at the same time as their latest calibers 781, 782, 783 and 784.

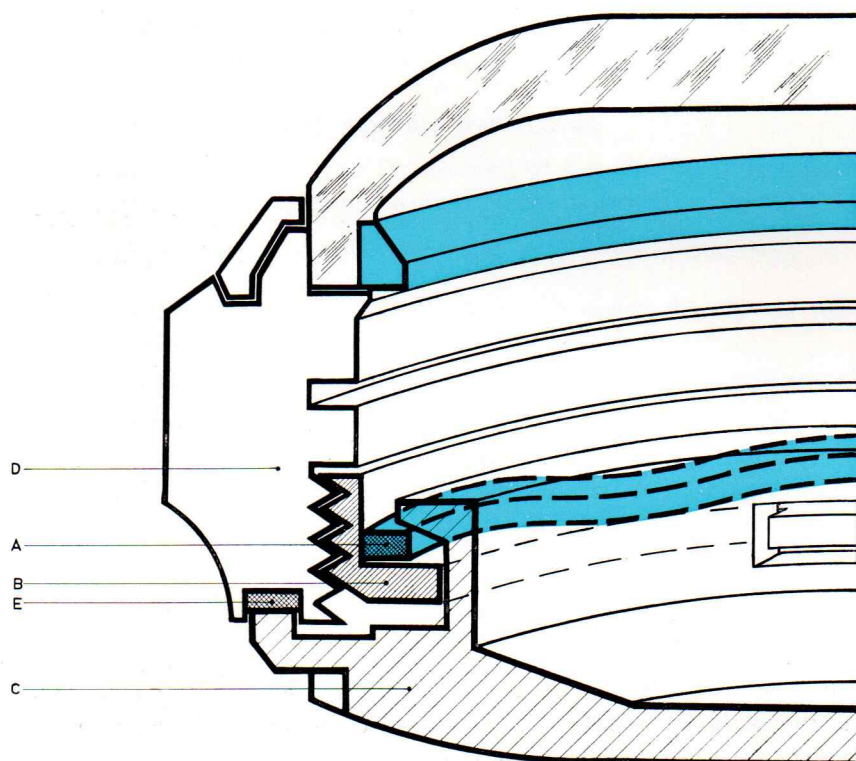
Briefly, they are cases in which all the classic waterproofing closure systems are lined with a pressure spring which retains their mechanical characteristics for a very long time without deformation.

The main features of these cases are as follows :

I A SCREW BACK COMPRISING THREE DISTINCT COMPONENTS:

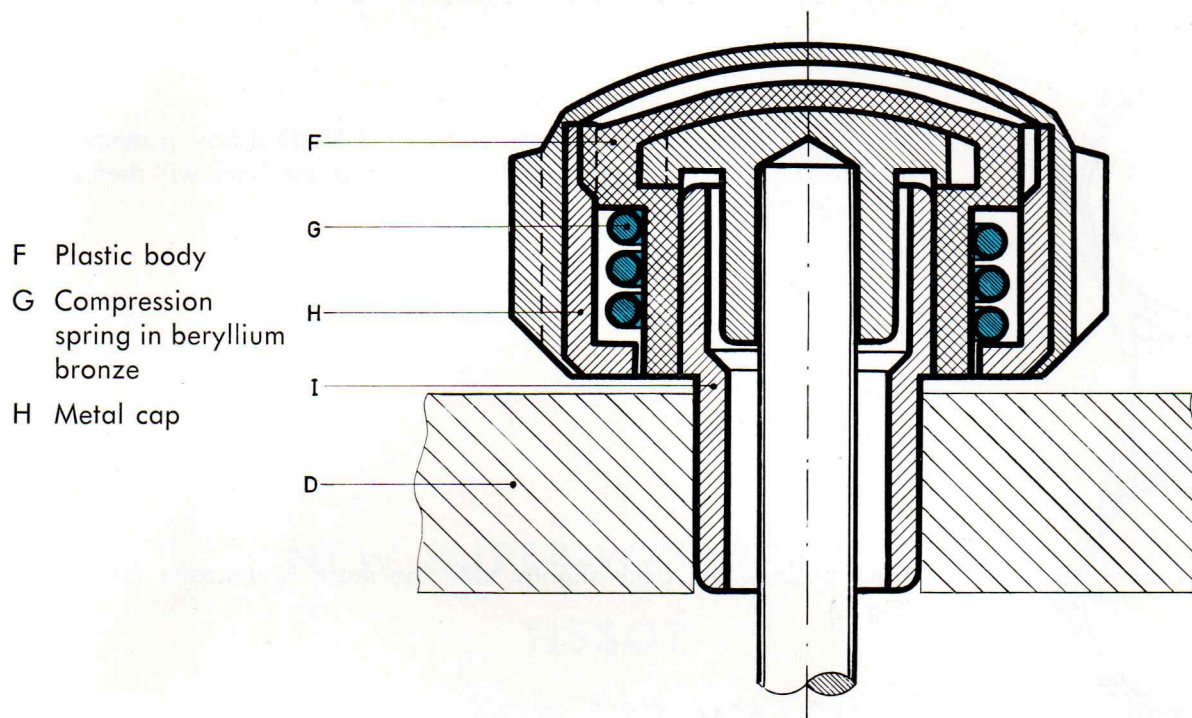


- A Pressure spring
- B Threaded ring
- C Back proper



The threaded ring B is adjusted in the back C in such a way that it rotates with the back C while retaining a certain vertical play. When the back C is screwed into the main part of the case D it first of all rests on the plastic joint E. Then the threaded ring B gradually compresses the pressure spring A until the ring rests on the main part of the case D. The spring A is now loaded at optimum pressure and presses the back C against the joint E in the manner of a suction-grip.

II A WATERPROOF WINDING CROWN comprising three main elements:



The plastic body completely encases the tube I set in the main part of the case. The spring G compresses the plastic body F and ensures perfect and permanent contact between the latter and the tube I. The metal cap H protects the system and holds it together.

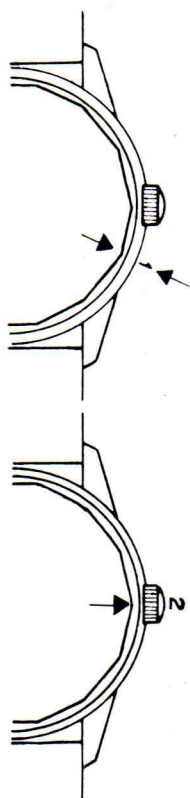
III A WATERPROOF CRYSTAL fitted with a tension ring.

This tension ring crystal in 2 mm thick plexiglass is resistant to moisture almost indefinitely. The tension ring ensures perfect and permanent contact between the crystal and the rim.

The three flexible elements detailed, i. e., the back pressure spring, the crown compression spring and the tension ring of the crystal guarantee maximum security and life of the waterproof system of the new T 12 case under any service conditions.

DIRECTIONS :

The new T 12 watch case is opened and closed with a No. 14 wrench. It is closed **by hand** only, no staking tool being necessary.



1. First screw the back until it stops against the internal boss provided for that purpose. The triangular mark engraved on the back will then be at 2 o'clock (Fig. 1).

2. Then unscrew the back slightly until the mark is opposite the crown (Fig. 2).

There are no marks engraved on **backs intended only for watch repairs**. A similar procedure should, however, be used, i. e. :

1. Screw the back **by hand** until it locks.
2. Then **slightly unscrew** the back. This operation is necessary to unlock the internal device and restore free play to the pressure spring.

How to test resistance to moisture penetration

In order to guarantee correct functioning of the closing system and perfect resistance to moisture penetration, the cases or finished watches should be tested in the following way :

1. Vacuum Test

- a) Put in a closed vessel, half filled with water, the case or watch, making sur **that it is suspended in the air**.
- b) Create a relative vacuum of about 20 inches and **wait for about a minute**.
- c) Immerse the case or watch and check whether air bubbles emerge from it.
- d) Remove the case or watch, wipe it carefully and place it for approximately 10 minutes on a heating element at a temperature not exceeding 122° F. If everything is in order, no condensation will occur.

2. Pressure Test

- a) Dip the case or watch in a closed vessel filled with water and apply a pressure of 12 atmospheres for about ten minutes.
- b) Proceed as described in paragraph 1 d) above.