



Time-Trak Model 616 Operating Instructions



TO CHANGE CHART: Remove retaining ring by squeezing the two ends so that the ring can be withdrawn. Turn the unit over so that the cover glass and bimetal assembly drops out into the hand. Unscrew chart retaining nut and remove the old paper chart, replacing it with a new chart of the proper time and temperature range. Replace the chart retaining nut, snug the nut against the new chart, but do not over tighten.

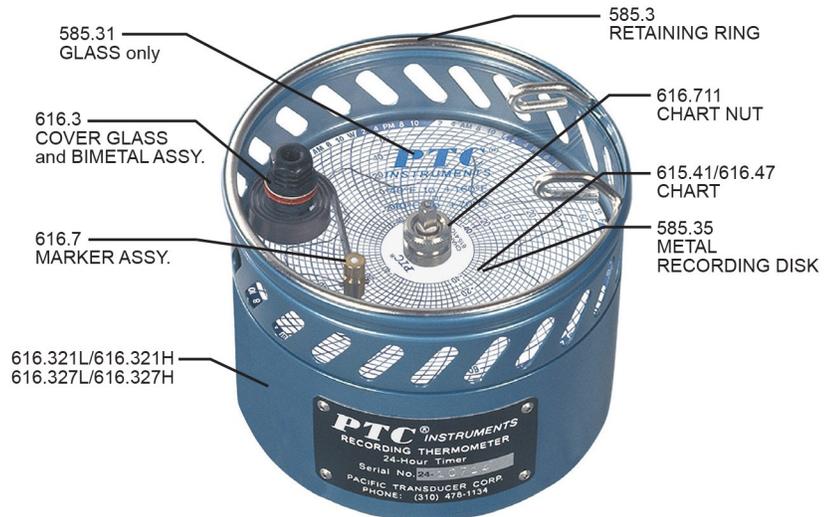
Rewind the clock mechanism using the clock key provided. The winding post protrudes through the chart nut and can be wound after replacing the chart. Fully wind clock spring. Resistance will be met when spring is tight.

DO NOT OVERWIND THE MAINSPRING

Insert the glass cover, making certain that the stylus indicates the correct time on the chart (the temperature coordinate will already be properly fixed). Be sure the cover glass is correctly seated in recording case, replace retaining ring.

TO RESET AT AMBIENT TEMPERATURE:

To reset the bimetal element, a 3/8" wrench and a narrow screwdriver are required. An accurate thermometer ($\pm 1^\circ\text{F}$ [$\pm 1/2^\circ\text{C}$] accuracy, or better) and the thermograph should be placed together for at least 30 minutes. Be certain the cover glass is correctly seated in the case, this is critical for proper setting. The glass must be flat and level within the case, the retaining ring holds the glass in place. Loosen the nut on the element post slightly. With the screwdriver, adjust the post so that the reading on the chart is the same as the checking thermometer. Tighten the nut securely. Do not overtighten as this could cause the cover glass to break.



ADDENDA:

1. The Model 616 will operate reliably in any orientation.
2. The instrument should be in a free air flow for best accuracy.
3. Both the clock mechanism and the dry stylus system will operate to temperatures below -40°F (-40°C).
4. When a permanent mounting is desired, the instrument can be fastened in any orientation using an accessory stainless steel mounting bracket (Part No. 585.84). Once the bracket is attached to any flat surface by means of screws or machine bolts, the thermometer can be easily attached or removed from the bracket by tightening or loosening the screw on the bracket.
5. Curling of charts can be minimized by placing a retaining ring (Part No. 585.38) immediately above the chart on the inside of the case.

Note: when used in an atmosphere where condensation might occur, the instrument must be enclosed in a polyethylene bag (see Part No. 585.86).