
Anniversary Clock Identification

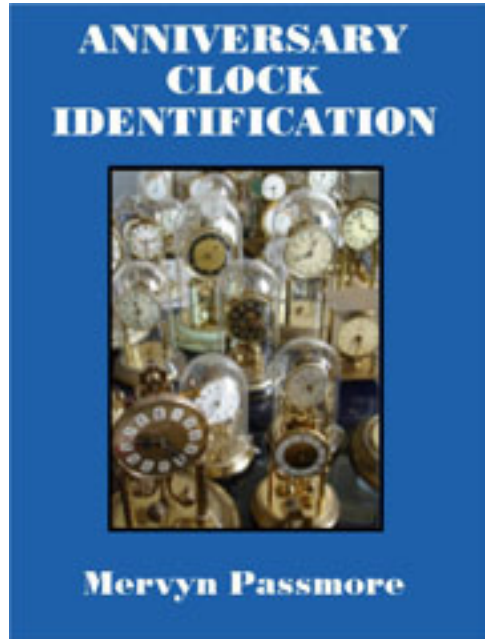
by
Mervyn Passmore

Anniversary Clock Identification by Mervyn Passmore contains information, data and images on the majority of mass-produced Anniversary Clocks manufactured during the last 100 years.

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Manufacturer:

**Jahresuhrenfabrik
A. Schatz & Söhne**

Backplate information:

A Schatz & Sons Germany TSM

No (0) JEWELS UNADJUSTED

**May show month & year of
manufacture**

Model:

**Schatz Miniature TSM
Electromagnetic**

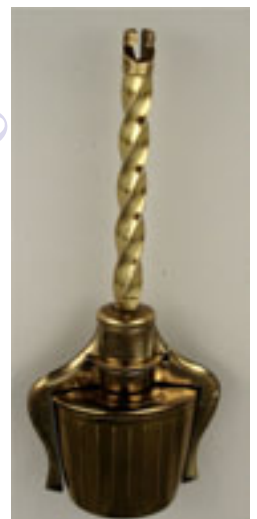
44mm x 68mm x 20mm



Movement ID code: **JS-TSM**

Notes:

Although technically a battery movement, this marked the transition from mechanical to electronic movements. Quite the reverse to spring driven and solenoid movements, the battery causes the pendulum to swing and the fork moves the pivot arm which in turn moves the hands.



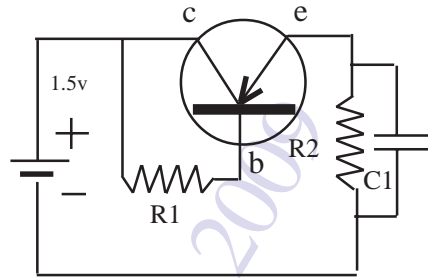
Schatz miniature TSM 43 x 67 x 10mm

Notes

The pendulum has a permanent magnet in its base. As the magnet passes over the outer 'Trigger' coil it induces a current at the base of the transistor. This current turns the PNP transistor on momentarily, allowing current to pass through the transistor, energising the centrally located repulse coil. The repulse coil gives the magnet an electromagnetic 'push' or repulse. The capacitor across this coil is also charged by the momentary current from the transistor. It acts as a small reservoir of energy which increases the duration of the push while it discharges.

Rapid Recognition Tips

Electromagnetic aperture in base



R1 Outer trigger coil 0.66k ohms
R2 Inner repulse coil 1.88k ohms
C1 10uF electrolytic



Data

Movement ID Code **JS-TSM**
Plate shape **Vest**
Plate width **43mm**
Plate height **67mm**
Gap between plates **10mm**
Escapement type **Pawl**
Battery voltage **D cell 1.5v**
Repulse coil **1,880 ohms**
Trigger coil **660 ohms**
Locking device: **None**
Pendulum type/s **1-ball lateral**
Mainspring barrel **n/s**
Transistor **Germanium PNP**
Capacitor **10uF electrolytic**
Suspension **n/a**
Mainspring **n/a**
Beats per minute
Bob weight **70g.**

Examples of clocks fitted with the Schatz TSM Electromagnetic movement

