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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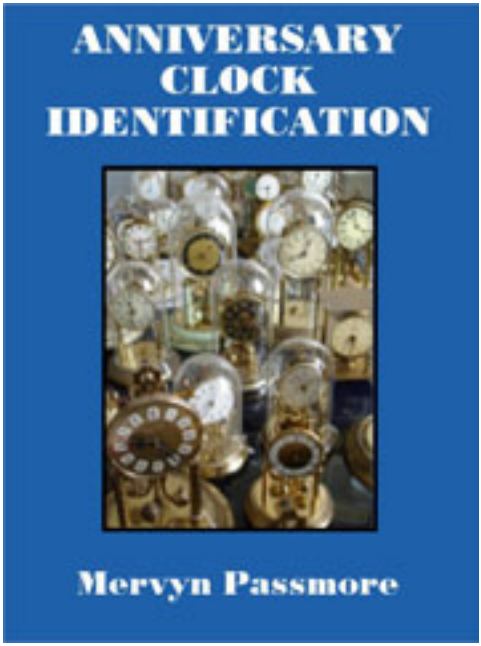

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Distributed by Meadows & Passmore Ltd.
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Manufacturer:
Kieninger & Obergfell

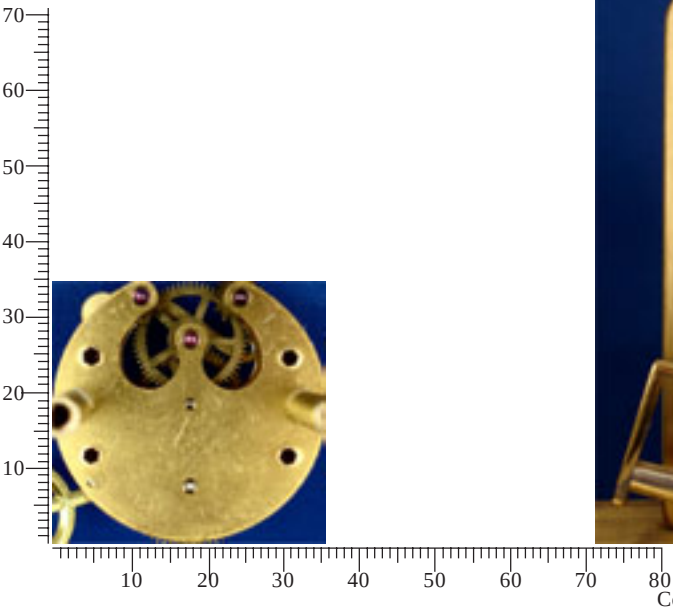
Model:
K&O Electronic (ATO) 36mm Round

Backplate information:
A plain unmarked circular plate with 6 jewels.

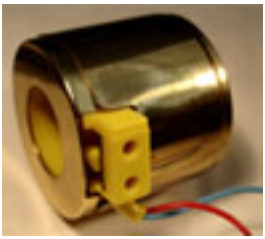
The swing of the pendulum drives the clock by a pawl attached to the pendulum hook.

Movement ID code: **KO-ATO**

Notes:
This ATO type clock used a small circuit board under the base of early models to drive an electromagnetic coil to swing the pendulum. Later models had the circuitry inside the coil housing. It is not easy to recognize if a coil needs a separate circuit board as these were glued under the base. If it has come away, there may be glue marks. The early ones (with and without a PCB) used a large flat battery but final models used a plastic D cell holder.

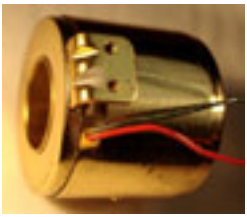


K&O Electronic (ATO)
36 mm diameter x 8mm



The suspension is similar to a mantel clock.

The early coil needing a PCB.



The later coil needing no PCB.

PCB

Notes

ATO was originally a brand, named after Leon Hâtot who first produced a transistorized pendulum clock, but the term ATO has spread to cover most examples.

As the magnet at one end of the pendulum passes through the coil, it induces a current which triggers the energisation of the coil, causing an electromagnetic 'push' of the pendulum.

The germanium transistors used on the circuit board have a limited life due to the growth of whiskers inside the can. It is not possible to replace them with silicone transistors.

Rapid Recognition Tips

Distinctive arc pendulum moving through a coil

Data

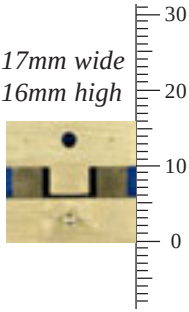
Movement ID Code ..... **KO-ATO**
Plate shape ..... **Circular**
Plate width **36mm**
Plate height **36mm**
Gap between plates **8mm**
Escapement type ..... **Pawl**
Voltage **1.5v**
Battery ..... **D cell or flat 1.5v,** AA Adapters are available.
Pivot adjuster ..... **n/a**
Locking device: ..... **Rear screw**
Pendulum type/s ..... **Lateral**
Mainspring barrel ..... **n/a**
Replacement wire ..... **n/a**
Replacement unit ..... **17mm wide, 16mm high.**
Jig settings ..... **n/a**
Mainspring ..... **n/a**
Beats per minute **42**
Bob weight ..... **140g.**

M&P part numbers, not for final publication:

Suspension unit 0672 000115

View these items in the M&P Store

17mm wide
16mm high



Examples of clocks fitted with the Kieninger & Obergfell ATO style movement