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: Kieninger & Obergfell

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

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

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

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