



The OMC-1 Rocking Engine

The **OMC-1 Rocking Engine** is an example of the early development of the electromagnetic engine and attempts to capture the spirit of those exciting times.

Working on just 4.5 volts dc, the coils of this model are intermittently charged, creating a magnetic field and attracting a rocking bar, “the armature” to rock to and fro on the coil rods. This in turn causes a connecting rod and crank to turn a flywheel.



A cam is fitted to the shaft that operates the “break piece” or timing blades which are connected to a housing attached to the chassis. There are two power pulses per rotation and timing adjustments can be made with the timing plate screw that adjusts the position of one of the blades.

The model is fitted with a fully working on/off switch of period design that incorporates a spring and ball. This switch makes demonstration of the engine much easier. The operating cycle is sufficiently slow to easily observe the models function.

Great attention to detail has been taken to ensure that all the parts are made in the style of the period. The elegant flywheel, authentic terminals, rocking arm and connecting rod are all true to the times.

The **OMC-1 Rocking Engine** is supplied in “kit form” and is made up of over 90 parts that have to be assembled but no machining or soldering is necessary and only hand tools are needed. As many of the threads are the old British Association or BA threads a BA spanner tool is supplied.

The model is produced from high quality brass, silver steel and zing coated steel with copper windings on iron cores. When mounted on the classic hardwood base the model is not only a delight to see working but provides a very satisfying experience for model makers of all ages.

The wooden base also conceals the battery box and other modern considerations such as the diode that prevents sparking at the timing contacts.

A very detailed and fully illustrated instruction manual is provided and the parts are supplied in numbered packets that relate to numbered instructions in this manual.

Even the outer packing converts to a jig to support the model whilst working on the under side.

A “spares packet” is supplied containing the smaller parts most commonly “lost” during the assembly

Technical Specification

The kit contains over 90 parts that have to be assembled.

A very detailed and illustrated instruction manual is provided and the parts are supplied in numbered packets that refer to corresponding numbers in this manual.

No Machining or soldering is necessary and only hand tools are required.
A BA spanner is provided in the kit.

The packing converts to a jig to support the model whilst working on the underside.
This packing box measures 30cm (12in) x 30cm x 5cm (2in).

The hardwood base will need drilling (template provided). It will also need polishing or varnishing. The base measures 14cm (5.5in) in diameter, 3cm (1.25in) high.

The finished model measures 12.5cm (5in) high and the flywheel has a diameter of 6cm (2, 3/8 in).

The model operates on voltages between 3 and 6 volts dc and is supplied with a battery box that accepts 3 X AA batteries (not supplied). A “spares packet” is supplied containing the smaller parts most commonly “lost” during the assembly

This model is not a toy and because of the number of small components this kit is not suitable for youngsters under the age of 12 years unless supervised by an adult.

The Old Model Company reserves the right to change the specification at any time without notice.

A “spares packet” is supplied containing the smaller parts most commonly “lost” during the assembly