

Instructions for

## **Timing Adjustment Tool**

(400 class electric motors)



**Order no. 7329/34**

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### Operating instructions:

The 400 series of motors are usually sold with timing set to neutral. The characteristics of the motor can be altered by rotation of the back plate which not only changes the R.P.M. and current consumption but also the achievable efficiency and performance.

Of particular importance is the ability to optimise the performance with a gearbox for either left or right hand rotation.

A side effect is a reduced level of arcing at the brushes and less wear of the commutator also a reduction in interference with the R.C. equipment.

Before adjusting the timing, mark both the casing and the back plate with a small file.

Prepare a strip of paper with marks of 1 mm spacing over a length of 5 mm to 7 mm. Strick this on the motor case with due regard to the direction of rotation.

The back plate should be rotated by up to 20°-30° in the opposite direction to the rotation of the propeller i.e. 5 mm to 7mm.

Mount the unit with two holes on the front of the motor casing using the supplied screws and firmly clamp in a vice. Fit the other brass component with two pins into the holes of the motor back plate. This item must be pressed right home and using the steel rod turn in the required direction to the position marked on the paper strip.

Considerable force is required to rotate the back plate which must be carefully applied.