

TRANSPONDERS

FREQUENTLY ASKED QUESTIONS



General Queries

Direct Powered or Battery Rechargeable – Which transponders do I need?

In most cases, direct powered transponders are used for cars and battery rechargeable transponders for motorcycles. There are exceptions to this, for example if your car doesn't have an alternator, or you are concerned about the current drawn by the transponder from the electrical supply (only 30mA), but generally this definition holds true.

Where can/must I mount the transponder?

Ideally the transponder should be located as close to the track surface as possible, oriented vertically. There should be no carbon fibre, and no metal between the transponder and the track, as this can interfere with the signal from the transponder.

The 'direct-powered' transponders have self-contained mounting lugs to enable the transponder to be riveted to the chassis of the vehicle. Battery rechargeable transponders have separate mounting brackets, which can also be riveted in place, or ty-wrapped.

Does the transponder work with on-board lap timing systems?

The transponders we supply are an aid to the official timing operation at motorsport events throughout the UK and further afield. They are not compatible with on-board timing systems, but are becoming mandatory for many motorsport championships.

Direct Powered Transponders

How is the transponder powered ?

A "Direct-Powered" transponder should be connected into a fused 12V supply from the vehicle. Thus when the vehicle's ignition system is on, the transponder will be permanently active. Normal UK household wiring conventions are used for the transponder wiring, i.e. brown is positive, blue is negative.

What current is drawn by the transponder ?

A "Direct-Powered" transponder draws no more than 30mA from the electrical supply of the vehicle.

Battery Rechargeable Transponders

How does the battery rechargeable transponder work ?

Battery rechargeable transponders are a self-contained unit, the rechargeable battery being housed within the transponder casing.

How do I charge the transponder and how long will it work for after charging?

The rechargeable transponders are supplied with a 240v UK mains charger, and a 12V cigar lighter charger.

To prolong the life of the rechargeable battery within the transponder, the recommended charging time is a full unbroken 24-hour charge from the transponder being fully discharged. If this advice is followed, then the transponder should be 'active' for a minimum of 3 days.

Incomplete charges (ie less than 24 hours), or charging the transponder when not fully discharged will reduce the performance of the battery within the transponder.

How do I tell if the transponder is charged?

After a full 24-hour charge, the light on the transponder face should flash green for a minimum of three times. The number of flashes indicates the approximate number of days charge remaining in the battery.

When the Transponder is going flat, the light will flash red. In its fully discharged state, the light will not flash at all.

How do I mount the transponder of my vehicle?

The battery rechargeable transponders have separate brackets to which they are clipped into. The bracket should be permanently mounted on the vehicle(s) with which the transponder will be used. Additional brackets can be supplied – contact us for further details.

Approximate Transponder Weights

Direct-powered transpoder	145 grams
Battery rechargeable transponders	120 grams (excluding mounting bracket)

For further advice on issues regarding transponders, please contact us at :-

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