

PORSCHE 936-78 Turbo

AT FIRST SIGHT the Robbe 'Sonic Sports' Porsche 936-78 Turbo is a most attractive model since it is a very acceptable representation of the full size works Le Mans car, affectionately known as "Moby Dick" To those familiar with 1/12 electric car racing, it may be rather less attractive because it features front-wheel drive which is generally regarded as being uncompetitive. Personally, I dislike full-size FWD cars due to their well-known terminal understeer characteristics (the characteristics caused me some anxious moments during my rallying days). It is worth noting that Ford are currently developing a rear-wheel drive version of the latest "Escort" FWD for next years works rally cars, as it is impossible to transmit more than 160BHP through the front wheels.

As I simply do not have the time to become heavily involved in electric car racing, I wanted a car which would allow me to acquire the technique of driving them with the minimum effort. In this respect the Robbe Porsche is ideal. The chassis is completely assembled and needs only the

batteries and radio gear to be installed to complete it, while the polycarbonate bodyshell is supplied painted white on the inside and with a full set of stick-on vinyl decals.

Assembly

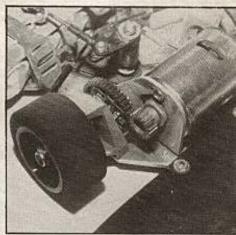
A full set of brackets, nuts and bolts are supplied for mounting the servo's and these, together with two sets of slotted holes in the chassis, allow virtually any type of servo to be fitted. Low cost Futaba type servo's were used and the linkages supplied fitted these with hardly any adjustment being necessary. Two brackets in the centre of the chassis support a standard battery box with the receiver mounted on top of it, the whole being retained by a rubber strap. Similar straps retain the sixcell battery pack for the drive motor. In order to save weight and reduce battery costs a voltage regulator (see Model Cars Quarterly, Spring edition) was connected between the drive battery and the receiver battery box. Addition of the various decals to the body-shell completes the car, apart from the painting of the driver figure which

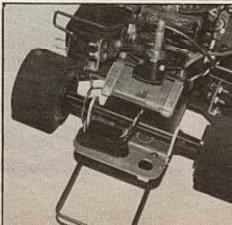
is moulded in clear acetate and can, the fore, be painted with virtually any type paint to your taste.

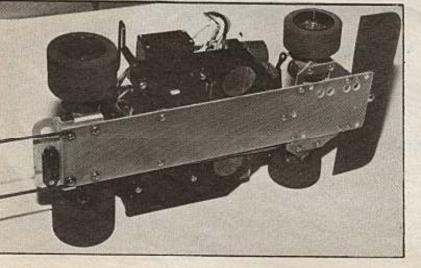
by Dave Day

Running

Three different gear ratios are suppl with the car, the highest ratio being fit when received. On this ratio the car is questand has a running time of 4-5 minus depending on type of use. The speed controller is of the mechanical forward a reverse type with no braking being fitted brake kit is available as an extra) and only quick way of stopping is to ap reverse which shortens the running ticonsiderably!







Left: the underside of the car showing the full length glass fibre chassis one of the areas in which the car may be lightened by fretting out. Above right: close-up of front end assembly. Below right: the other end showing the forward/reverse proportional resistor speed controller (contacts between the wiper arm and coil should be cleaned regularly).



Below right: steering layout in its original position. Below left: modified layout to give 'Ackerman' type steering. Note modified track rods.

chassis roughly where I would expect to find one in order to give the correct geometry for "Ackerman" steering!

A few minutes work had everything changed around and a longer link made up to the servo (see photo's). The result was a complete transformation and the car could now be steered at high speed. Once started into a turn, an increase in power merely causes the car to drift outwards with virtually neutral handling, while a reduction in power gives an oversteering slide, and a sharp reduction an instant spin.

Conclusions

While not being up to the standards of the out and out racers the Robbe "Porsche 936 Turbo" is a convenient and relatively cheap way into 1/12 scale electric cars. It is much closer to scale than the average 1/12 scale car and really does look like a "Moby Dick" Porsche. When modified as noted above, it could be quite competitive at club level and we can say from experience that it will withstand a tremendous amount of punishment.

The Robbe "Sonic-Sports Porsche 936-78 Turbo" is distributed by Europex UK Ltd. and available from your model shop, price £38.31.



Vinter Issue

andling.

o round corners.

When more than about half power was

pplied, the car simply would not steer and

lunged straight on into the scenery. As

upplied, the front wheels have a con-

iderable amount of toe-in and removing

his helped somewhat, but did not cure the

problem. This was, of course, roughly what had expected and much fun was had briving the car in this form and lifting off to

Taking a second look at the steering one lay it was noted that when on full lock, the wheel on the inside of the turn was not noving as far as the outside one. Usually, of ourse, the inside wheel moves further, his being known as "Ackerman" steering. I queried a local expert on this point and he laid: "Ah, yes, that's reverse Ackerman intented by Associated, it gives better

Not being one to question the experts, I mmediately examined the car again to see I there was some way that I could convert it to true "Ackerman". The servo-saver is supported on a bolt which is screwed into a apped hole in the chassis and, curiously enough, there is another tapped hole in the