

standardisation. The motor connector on the 'Tamtech speed controller fits the connector on the motor lead and the battery connector leads also fitted each other. A great step forward for mankind. The whole electrical package is secured under the plastic securing top plate, which also assists with

Below: Tiny dog-bone drive shafts transmit power to the rear wheels. Bottom: Rear shocks have two positions for very bumpy or smooth

out the car, there is no mention of ball bearings. perhaps not an important consideration at this stage of the scales development. The plastic motor pinion is push fitted to the motor shaft and then the motor, complete with the spark suppression capacitors, lead and plug is fitted to the gearbox with two socket headed screws

RADIO CONTROL MODEL CARS

dampers are provided with coil over springs and although they look like small copies of 1/10th damper units they are in fact dry. I imagine that oil tight seals would not be easy to achieve, but one day perhaps. Damper action is surprisingly smooth despite being dry. The front suspension follows similar principles of design and

is assembled before fitting to the chassis. Some compromise between perfect engineering and acceptable engineering was, perhaps inevitable, due to the size of some of the components

The dampers pivot on the threaded portion of the mounting screws. Although not strictly correct I feel that this is an acceptable compromise. Once again the front dampers

mechanical speed controller supplied with the kit, the assumption being that the miniature electronic speed controllers that come with the new RC outfits will be used. The 'Tamtech' equipment fitted perfectly. Both the

not exactly masses of space for

RC equipment. I recovered the receiver from a 'Tamtech' car to

fitted. In Japan most of the radio

producing the miniature type of

RC equipment for this and the

1/24 scale cars. There is no

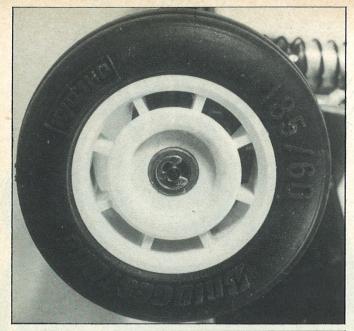
see just how well it could be

control manufacturers are

small screwdriver for the job, together with the appropriate hexagonal keys for the socket headed screws.
As might be imagined there is

receiver/speed controller module and steering servo were secured with servo tape supplied with the kit. The steering comes straight from the servo output shaft with no servo saver, this is unlikely to be a problem as the car is light enough to move before the

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making the chassis assembly rigid. The only work that was necessary to the RC side of the job was to turn the steering gimble on the 'Tamtech' transmitter upside down as the steering was working in reverse. Alternatively turn the servo over or if your transmitter is fitted with servo reverse then flicking the switch is all you need do. Painting and trimming the body was the final task and all is ready for the first run.

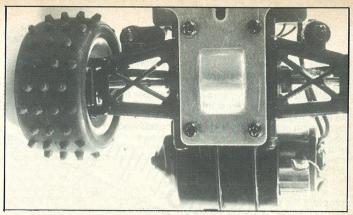
## **Driving and** performance

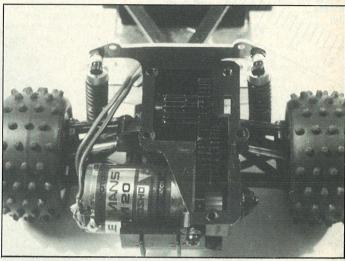
I initially tried the car indoors,. This presented a problem for the family dog who decided that this diminutive newcomer looked more like an intruding rat than a model to be cherished. Fortunately the little 'Optima' could both out accelerate and out corner the dog, given a long enough straight the dog might have the edge, but as most of the competition will come from non canine sources the contest was

deemed invalid.

I found the car great fun to drive. Tremendous acceleration drive. Tremendous acceleration helped by good grip from the pin spike rear tyres. Cornering was also pretty impressive. At this stage performance criteria cannot be measured against any opposition as there is none. The only slightly similar vehicles are the 'Tamtech' 1/24 circuit racers. Not a fair comparison as they are a comparison as they are a completely different type of vehicle, but one significant

advantage of the Kyosho vehicle was that gears are all enclosed, hence no dirt or fluff gets into the transmission, a problem I have encountered with the 'Tamtech'. If racing 1/20th scale takes off then a whole new set of rules, standards and achievements will apear. It would also be that those drivers who excel at 1/10th just may not excel at 1/20th if for no other reason than you need good eyesight to see 1/20th on the tracks. of course problems such as how does a lap counter manage to see the extra small numbers will no doubt be solved, but someone will have to think about these difficulties and come up with solutions. In the meantime I hope that this scale finds popularity (even if it remains a back yard hobby).
From my short experience of the cars they seem plain good fun.
As a footnote, whilst we







waited for the kits to make the water of the kits to make the tortuous journey around the world, *Kyosho* have produced and additional body, the 'Mini Ultima'. However, the mechanics appear to be the

same. I guess we must wait a little while for those to appear.
My conclusion is that the car is simple to build, but care must be taken with the small parts including the screws as Kyosho give no spares. Driving is exhilarating, but you will need to keep your wits about you. The only disappointment was that the cars did not make it to the Top left: The front wheels run on tiny bronze bearings. Top right: undertray extends to rear to protect gearbox. Centre: Rear gearbox which contains five main drive gears. Above: The Kyosho 7.2 volt battery. Left: The complete chassis less Lexan bodyshell. Below: The chassis less top plate shows how tight the radio installation is. Crystal is simply changeable after removal of bodyshell. Top left: The front wheels run on

shops for the last Christmas rush, otherwise the BRCA might need a special general meeting to sort out the rules for another class of racing.

