■CHRIS FIFE-SCHAW

GP loaded with receiver attery pack, servos and wheels.

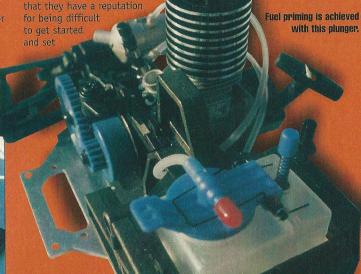
Kyosho Volvo 850-electric and gas powered kits

review of these Kyosho Mantis ly keen to get my hands on the IC

The FP as it comes

version of the kit (known as 'GP' for the reasons (apart from gas powered in Kyosho-speak), since I had never owned one of other people's IC cars and pitted for them at meetings but never had to deal with the whole ownership

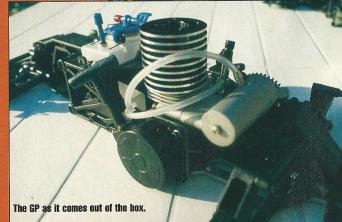
It has to be said that one of



poverty) that I have not

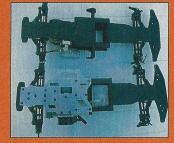
bought an IC car in the past







The EP's mechanical speedo is very smooth for such a unit.



Roth cars share a lot of common chassis parts.



The GP comes with a plastic 14T pinion



Front end detail.

Gas or electric?

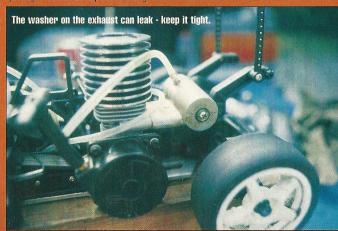
up properly. The noise and smell of undoubted attraction. However, you often see IC races start with a full grid only to have a couple of cars still running on the track at the end of the race. Electric cars are much less hassle, cleaner and much more ed with the chance to see if I could be tempted by the IC bug. Would it be reliable enough to make me change my mind?

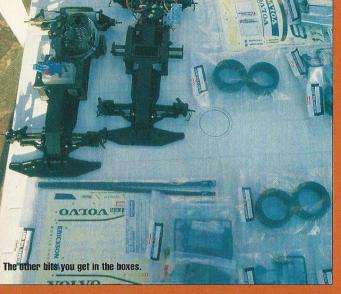
What you get

Both cars come with about half the assembly done for you. With their power plants already in place ered (EP) car you get a very good quality mechanical speedo. Many of the chassis parts are shared which and make buying spares cheaper. Both cars come with the same

body shell and decal set and the You get a pair of 'hard' tyres for the front and 'softs' for the rear - make sure you get them round the right to tell you which is which, though you do get some decals which you can apply to the wheels once the tyres are mounted later on. Note that you must glue the tyres on as they won't stay on if you don't!

Ride height and spring preload can be fine tuned via some large grub screws and the (supplied) Allen key, however there are no dampers in the kits as standard.







What you don't

Both cars obviously need radio vos and in the case of the GP a

To run the EP you will need at 'stick' pack and some means to that run off the mains can be had but most people will opt for a peak

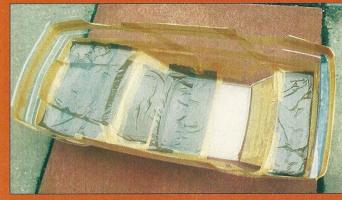
a squeezy bottle for getting the heater and a glow plug spanner (strangely not included in the kit). I was surprised to find no fuel filter included (it is an optional part) as getting in the motor is one of the quickest ways to ruin it. Since roll over hoop to protect the engine

In both cases shops will offer you a 'deal' which will contain all the the cost of buying them separately.



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with this plunger.









are paint, a modelling knife, masking tape, access to a drill and some evenings free to get it all together.

Body shells

Both cars came with identical Volvo 850 body shells which were nicely moulded if a little thin and come with wing mirrors and wipers too. The shells have a thin film of clear plastic on the outside to help you avoid accidentally over painting the outside and to give general protection while you hack it about with the scissors. The film is removed before applying the decals provided.

For cars that are almost ready to run (ARTR) and aimed at the first time buyer finishing the body shells was a bit fiddly. I have to admit to hating painting about the body but the

Volvo was especially complicated as it involved four different colours and therefore a lot of masking. Unlike Tamiya's saloon shells no window masks were provided and some of the decals had to be cut back to fit in with your (the builder's) masking. Since most beginners will want to get on the track quickly some way of speeding up the body finishing process would help. I finished the build up of each chassis and radio installation in little over an hour and a half but each body took three evenings to do properly. Having spent all that time on them it almost seems a shame to actually risk damaging them on the

Before you hit the track....

track

Before you rush out with the GP car you have to run in the engine if you want it to work well and last a long time. Thrash it from the outset and it will almost definite-

Anticipating a lot of trouble getting my GP to start I was bowled over when it burst into life on the third pull of the starter. I simply followed the instructions supplied and it just worked. Alan Gray of Woking Models suggested that I run it in using 10% nitro fuel rather than the 16% used in the Kyosho series since it would be kinder to engine. The idea being to run a full half gallon bottle through before moving up to 16% and tuning the engine for maximum perfor-

nance.

During this running in period a mall washer on the muffler split ausing the whole left side of the ar to become engulfed in a fine nist of oil and exhaust gunk. Since had left

VOLVO

den while I went for a cup of tea (it

takes ages to get through a tank of

taking the photos yet!). A simple thing to replace however but keep an eye on it. Similarly, though the car comes largely pre-built it is worth giving all the screws a quick once over as the engine can vibrate these loose

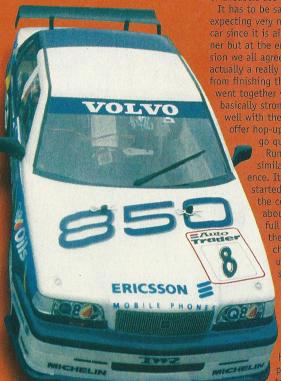
Hitting the track

As an Aldershot club member it was a simple matter to set up a test day with my two lads and another friend. I concentrated on running in the GP car while they thrashed about with the EP version. Two of them are complete novices yet they were unable to break anything on the EP car except a

MICHELIN MICHELIN

which is a testament to the basic strength of the chassis.

The mechanical speedo is a threestep version that works really nicely with a good progressive feel to it. Unless you intend to run hotter



the main handling characteristic. Swapping the soft tyres off the back of the GP car to the front of the EP gave much more positive turn in, though you could induce oversteer with a heavy left thumb or unsubtle use of the steering.

It has to be said that I was not expecting very much from the EP car since it is aimed at the beginner but at the end of our test session we all agreed that this was actually a really good kit. Apart from finishing the body shell this went together very quickly, it is basically strong and goes quite well with the kit motor. Kyosho offer hop-up parts to make it

go quicker.

Running the GP was a similarly pleasant experience. It has so far always started within 2-3 pulls of the cord and runs for about ten minutes on a full tank. Like the EP the basic handling

switch to running soft tyres all round improved the turn in quite noticeably. Alan Gray suggested running a larger 15T pinion and hotter No7 glow slug which seemed

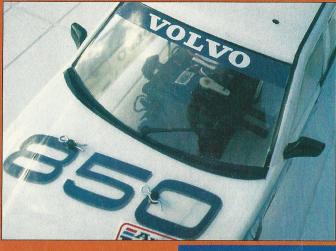


motors in the car this speedo is more than man enough for the job. The motor, which is Kyosho's equivalent of the good old '540' style motor, has quite a lot of go in it but was under geared for the Aldershot track. You could get impressive wheelspin off the line but the top speed down the straight was too low. A change to a larger 48DP pinion sorted that out. If you only intend running on a tighter track or car park then the lit raisen is just about right.

The handling on smooth tarmac is quite pleasingly stable. I had expected the absence of dampers to mean the car would bounce all over the place but, unless you ride the curbs too much, it was pretty stable with basic mild understoor as

end of the Aldershot straight and improved pickup out of the corners

A trip to Ashby which is somewhat more bumpy than Aldershot showed up the lack of dampers. Around the twisty sections of the track the car handled well but hitting the bumps at high speed on the straight tended to result in the car bouncing around and off the track. This seems to be partly due to their being quite a lot of bump steer (wheels turning as the suspension is compressed) in the steering geometry which could be partially cured by reducing the ride height. We also got through 3 more



body posts here. Despite these problems I had to spend most of my time fighting to get the transmitter back off the various folk who wanted a go. Basically IC cars are a big pull and a lot of fun.

To conclude then both cars are good value for money and worth seriously considering. The EP is a good car to get started with and should provide endless hours of fun. I personally found the GP excellent fun and revelled in the ability to get so much track time in while only having to worry about the state of the receiver batteries. It was so reliable that I have been converted to IC and will run the thing competitively at various events for the rest of this year. I think Kyosho should seriously consider adding basic dampers to both kits, however, to make them more usable on rougher surfaces. Since this ought to only increase prices by a small amount these kits should remain competitive in the market place.

Kyosho are running a national series for both these cars and the Aldershot club will be running classes for them from this summer onwards (ring 01252 542363 or 01252 343132 for details). Thanks to Alan Gray at Woking Models for helping with parts and advice for this rayiow.

Available from most model

Tester's Kit:

Acoms and Sanwa basic 27mhz radio and servo sets Demon 1700 SCRCs Model Technics 10% nitro glow fuel Ripmax glow starter Model Technics No7 Fire Power glow plug

EP Likes:

Easy build up Smooth mechanical speedo Safe handling Film covering the body shell

EP Dislikes:

Complex to paint Weedy body mounts

GP Likes:

Easy to build Easy starting reliable motor Lots of track time

GP Dislikes:

Lack of dampers Lack of fuel filter Lack of roll-over bar Weak body mounts

