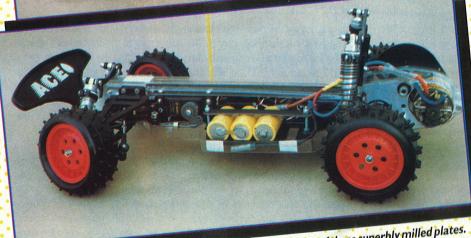
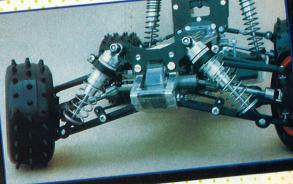
Greg Halliday looks at PB's new 4WD contender







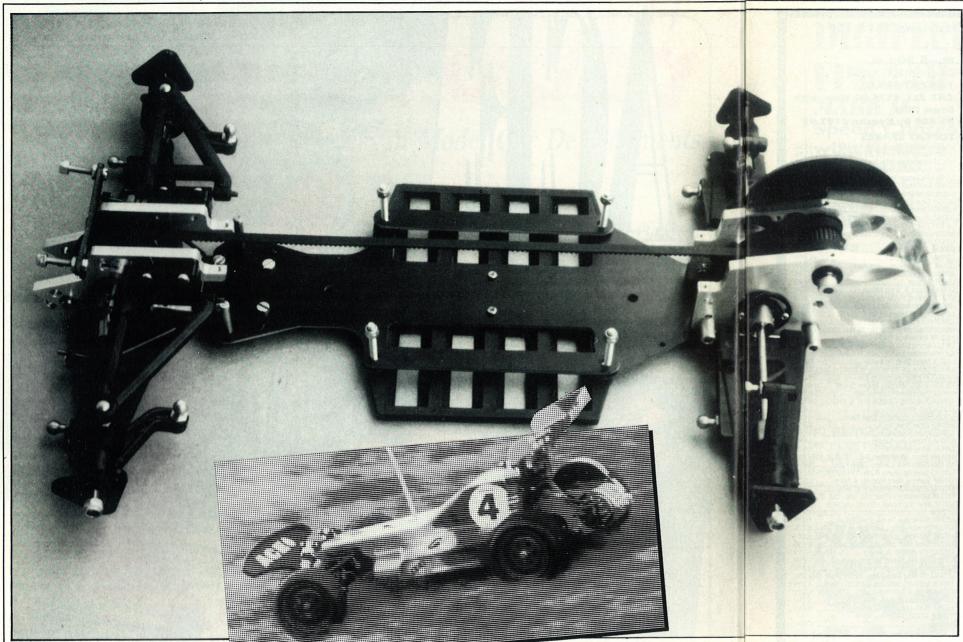
PB's Ace has a rear mounted motor which sits between two of these superbly milled plates.



There is plenty of ground clearance; and don't those new shockers look good.

Kyosho's marketing handbook when they decided to launch their new four wheeled drive Ace 1/10 car. With almost as much type as when the Mid-Optima was introduced (and taking almost as long before it finally appeared), the new contender from PB is finally before us, and I can assure you it is no Mini-Mustang/Maximaclone! PB have radically re-thought the design of their car and come up with something guite different to the opposition!





The following points may be useful to huilders

There are a lot of metal to metal threaded joints, on all of these use a thread locking compound if you don't want your car coming apart in the middle of the 'A' final! Position the ballrace in the centre of each differential pulley and not on the diff half shaft as suggested, otherwise you could find the race is only just sitting in the pulley. It also seems OK not to grease the diff balls - PB say they run their 1/8th cars this way with no ill effect! Anyway, we all know that greasy diffs get gritty quickly, don't we?

About the only Maxima parts retained on the Ace are the rear wishbones and stub axle carriers. As the same moulding is used for each side the rear wheel tracking is diffe-

problem on the Maxima, but fortu- the lock by fouling on the servo and nately it was resolved by Ralls Racing. use a light lubricant on the alloy plates They designed a new glassfibre rear bulkhead with the wishbone pivots offset. In this combination the Maxima was a winner as anybody who witnes- Is Ace Trumps? sed Brennan Ralls RRC 'A' finals placings last year will youch for. However, it is not so much of a problem on the Ace as the facility is provided to alter anything to go by, it should certainly the rear tracking; in fact PB recom- be quick on the straights. We will mend a parallel tracking arrangement for greater speed. In order to achieve mulae is right — who knows, maybe this straight line tracking I found it is next season all cars will follow this necessary to insert one washer behind the right rear alloy mounting post and three behind the left. By the way, the dealer near you, price £199. Ace has the facility to increase the rear anti-squat setting.

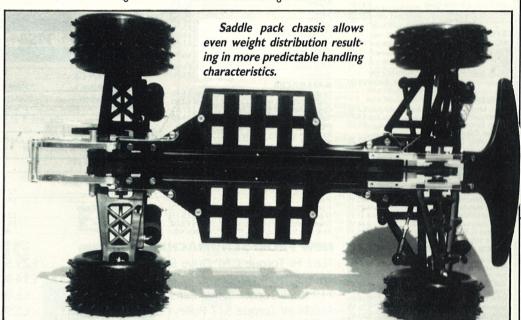
Cut off the unused right hand steer-

rent on the right and left. This was a ing bellcrank arm or it will restrict when screwing in the self-tap screws.

All in all an interestingly designed package that is quite different to the opposition, and if PB's previous cars are watch with interest whether PB's for-

The Ace is available from a PB

(My thanks to Richard Hopkins for the very nice paint job.)



A New Card Trick?

Probably the most noticeable thing about the Ace is that it has a rear motor position, something you nor- to the front, with a Mardave/Nodis mally find only on rear wheel drive type ball differential between each cars. Mind you, one of the most suc-pair of wheels. PB's previous off-road cessful 4WD cars a few years ago was cars each used one belt and twin the old Optima, and that was rear mogeared diffs. The drive shafts at both tored! Another reversal of trend is ends of the car have ball and pin drive that the car has a shorter wheelbase inner ends, with Hardy-Spicer type at 26 lmm; the Maxima is 272mm. The universal joint outer ends as used on chassis structure is made up from four the Maxima. PB can also provide an of this is to squeeze an 'O' ring betvery neat computer milled alloy side option of one way roller clutches if plates (the combined weight of all four you need them (these usually improve creases the 'O' ring diameter within is less than three ounces), which are steering on cars and also improve the the shock absorber casing. Neat eh?! attached to a black glass fibre chassis efficiency of the transmission), and the and top brace. Bolted to the chassis design of these has been improved by are plastic saddle-pack battery holders permanently attaching them to the giving an option of forward or rear drive shafts. That doesn't sound like mounted cells, plus stick pack fitting a great improvement, but if like me if required. The cells are held in place you managed to crash your Maxima temperatures, and it can be a little by glass-fibre straps and nuts.

transmission of power to the four why I think it's a good idea! 48DP wheels; two belts to the rear and one gears are now fitted as standard, with

Three fine pitch belts provide the sembly out on the track, you'll know a 21T pinion and 80T and 90T ring gears being supplied with the kit.

Four totally new design alloy shock absorbers are provided with a novel idea for adjusting the damping rate without changing the oil - just remove the spring, push the shaft up into the casing and rotate it. The effect ween two brass cone nuts which in-They also could be better for those 'greens' amongst you. There's no excuse now to tip your shock oil all over the grass! Personally I'm not sure this system would be consistent in varying heavily and have lost the one way as- difficult to get them adjusted equally.

However, you still have the option of reverting to the old method of balancing by varying the oil viscosity. Progressive rate springs are supplied for the rear, but all four springs do seem a little hard to cover all track conditions; I would like to have seen a softer set included, or at least their availability as an optional extra! Perhaps that's to come. Mind you, I did dig through my pit box and found that Option House springs fit! It's also nice to see PB responding to previous criticism of their use of single seals on the shock absorber shafts - now two are fitted, so leaking shocks could be a thing of

Shuffle the Pack (or putting the thing together!)

The Ace is not a difficult car to assemble, but it is no five minute job either!

