



ssociated's RC10T2 Truck is the very latest evolution of a design that first hit the tracks back in 1984: The all-conquering 2wd RC10 Off Road car. The T2's pre-production prototype went out and took TQ at the '94 Truck Nationals in both the Stock and Modified Classes, also winning the Stock National title, then it won the NORRCA Electric Truck World Cup a few months later. The most amazing debut for the first production kits occurred at the WinterNats in Tampa, Florida, when Rick 'Mr Peak Performance' Hohwart TO'd against the very best Off Road racers in the World. A dream come true? Not really, it's happened before..

To literally be immediately right on the pace, or should we say "Be the immediate pace-setter" in the harsh World of American Off Road racing, there must be something special about

Associated's new design, so let's disect it bit by bit to try and find out what makes it such a dynamic performer. A great deal of development work was carried out by former World Champion 'The Buggy Master' aka Cliff Lett, and Mark Pavidis, Team Associated's top driver, the prime directive being to make the new Truck capable of handling the awesome power now being produced by the very latest generation of motors and batteries, and to make the handling scalpel-sharp whilst retaining the original RC10T's good manners. To top off the list of requirements came a new battery retaining system, plus an improved servo saver and mounting to give better control and reliability. Quite a tall order really!

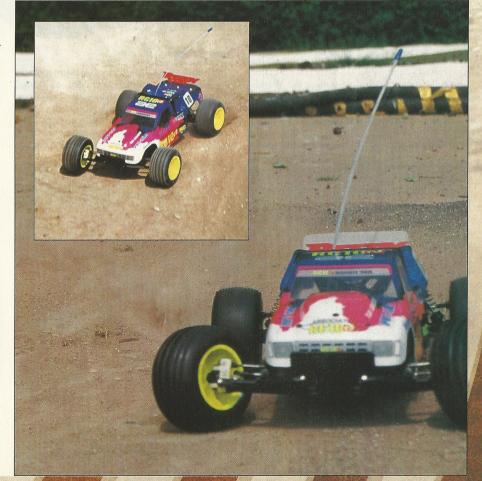
The Chassis

The all-important base upon which any car is built, the T2's chassis now features angled sides to its undersurface to give increased ground clearance in roll over rough ground (is there any other type on which to drive a Truck?!). The chassis is now produced in aircraft grade 2024 aluminium alloy, hard anodised to keep it looking smart. This time though, in comparison to the earlier design, the tub's vertical sides have been trimmed down to the absolute minimum required to maintain adequate rigidity, helping to add a little 'lightness', always a good thing with electric power. The use of aluminium for the chassis gives a pleasing 'quality' feel to the Truck, and it should retain its rigidity in even the hottest temperatures (not really something British racers usually have to worry about!).

New, 'Modular' Rear End

The T2's rear end is where a real difference will be seen for those familiar with Associated cars. The T2 uses Associated's new 'lavdown' Stealth transmission, complete with the new 2.6:1 reduction and larger diameter differential originally used for the RC10GT Gas Truck's power train. Looking at the awesome power and torque now being put out by the latest Gas engines and handled reliably by this new transmission, it should be pretty well unburstable. when using electric power.

'Laydown' has been something of a buzz word for a while now, so the latest gearbox's very low, squat appearance keeps the centre of gravity well down, the input shaft being very little higher than





The new 'laydown' transmission uses the large diameter differential and 2.6:1 ratio from the RC10GT Gas Truck. It can handle really low turn motors, the low ratio allowing suitable gearing, yet should be unburstable!

the top of the motor. The familiar 'three gear' design features a steel input drive, plus Associated's famous ATC (Associated Torque Control) slipper clutch, first seen at the World's in Australia back in 1989 and much copied ever

The rear bulkhead, transmission and shock tower all combine to form an extremely rigid assembly, integral with the chassis, yet easily

The rear shocks now mount to small brackets, the pick-up point now being well above the suspension arm.

removable independent of each other in the case of the gearbox and suspension mounts.

Suspension

If there's one Class of racing where really excellent suspension design is needed, it's Trucks! Anyone who has seen Associated's latest all-action '94 video, or who has actually visited the States



The T2's moulded battery retainer permits the use of either 6 or 7 cells. made up in either stick or saddle pack style. The new design allows much easier use to be made of 'Corally' style connectors.

of the first things on the agenda when it comes to Truck suspension design, but achieving the correct geometry to give safe yet responsive handling is quite another matter. Associated used their new computer 'Cad-Cam' design system to come up with the suspension set-up used on the T2; totally flat, non-kinked wishbones, produced in a new and very light composite material (less unsprung weight), centre point steering blocks (no trail) for good response, and a more upright mounting for the rear shocks combined with the shock's outer pick-up point now situated on a small bracket above the arm, rather than directly

Nothing actually appears really radical about the T2's suspension design, but there's no doubting the fact that it works, and works well

Improved Ancilliaries

Keeping either a 6 or 7 cell battery pack nestling happily in its mounting cups is no easy matter, especially when it's also necessary to get them in and out easily (you know, the last minute mad panic before a Heat!). The incredible forces put upon Trucks like the T2 when landing off bad jumps mean that a substantial battery retaining strap is essential. The one supplied with the T2 is just that! Moulded with strengthening ribs down its length, and quickly fitted in the heat of the moment, it will probably find its way onto other cars in the future.

The T2's battery mounts cater for either 6 or 7 cells, in either stick or saddle fashion, and when 6 are used their positioning can be altered, either to the front or rear, to change the weight



The Pro Line XTR Compound 'Edge' front tyres (right) feature a really novel design to the ribs, whilst the XTR 'Mini Pin' rears are already well known in standard Buggy competition. Foam inserts are supplied for both front and rear.

distribution. Just another little 'tweak' to experiment with. European racers usually prefer to use battery connectors rather than 'hard wiring' (soldering the leads directly to the cells) as is common in the States, so the battery cups and retaining strap allow the use of connectors without any modifications.

The original RC10T's servo saver did allow a little 'blow back' and lost movement due to the extremely large loadings imposed by the huge Truck tyres. Lost movement obviously means a lack of precision, so to alleviate the problem Associated now supply moulded servo mountings to which the servo is bolted (servo tape won't do), whilst the new design of servo saver is similar to a Schumacher type in appearance, complete with the facility to adjust the spring's tension. The instructions go to some lengths to say that because of the servo saver's characteristics and the extreme loadings placed upon it, that the builder plump for a very powerful, metal geared servo, and I must say that I agree wholeheartedly! Airtronics servos are recommended (Sanwa in the UK), but any of the gutsier servos from Sanwa, Futaba, Hi-Tec or KO will be OK, the latter's

> favourite choice for most Off Road fans. Asociated's well known hard

PS1002 FET probably being the

coated shocks remain unchanged, and Off Roaders with a few years under their belts will recognise them as some of the best shocks available. They're really easy to put together, using the neat little tool (supplied) for snapping the seals into place, and once built, don't leak

The one-piece fluorescent yellow wheels really look the business, and where the T2 really scores then is the tyres. As per the RC10 World's Car kit, the T2 Truck kit includes tyres from World Championship winners Pro-Line, in this case XTR Compound 'Edge' front and 'Mini Pin' rears, with foam inserts all round. The Associated Team drivers usually run this rubber, so you get what the quick guys use in the box. Neat!

What Did We Think?

"The proof of any pudding is in the eating," as the saying goes, but before moving to the Track Test, let's go back to opening the box for the first time. As is the norm these days, the very, very comprehensive instructions deal with the T2's construction stage by stage, so the kit's components were found in numbered bags to correspond with each of the relevant stages described. Associated have been making quality kits for a long time now, so nothing was missing, whilst the only (common) substitution made was RCPS Titanium turnbuckles all round for the top links and track rods.

The new T2 bodyshell is squatter than the RC10T's, and the large upswept 'trim tab' gives the Truck good looks, together with increased stability. Running without one might prove a little 'interesting' though at high speed..

Go For It!

Having recently tested the RC10GT, which was a real ball on the local BMX track, I took the RC10T2 off to Kidderminster's super multi-surface track to give the T2 some stick.

Fitted with a Reedy Sonic 12 double and a Tekin 410K2 speedo. the T2 was so much sheer fun, it's hard to describe! Ok, I wasn't actually racing it against other Trucks, just blasting it around, but isn't that what it's all about anyway? Off the jumps it landed well. after flying for what seemed like ages, and despite taking quite a few tumbles after clipping track edgings, I got away without breaking anything.

The T2 was ultra responsive on the Astro Turf, and in fact could

> done with a change to the set-up, but on natural grass and hard packed earth the kit tyres actually work very well, as did the standard

kit suspension set-up. I can see why Truck racing is so popular in the States with cars like this to throw around!

Chatting to CML's Jason Varley (it's his car seen here), Jason suggests the long wheelbase setting in conjunction with 1.5 rear toe-in for grippy tracks, then the short setting with the stock 3° toe-in for tracks where traction is at a premium. Shock settings? No 1 pistons (2 holes) and 30

weight oil all round with the 30° castor block, the 25° version making the T2 a little too 'snappy' for

Altogether, the T2 Truck is a nicely turned out, quality piece of kit that delivers the goods. Its pedigree can't be denied, but I dare say that the question that's been lurking in my mind is probably in yours too, and that is, will the next version of the RC10 be based around the T2? Is it the chicken and the egg, or the egg and then the chicken...?

The Associated RC10T2 Truck is imported and distributed to the trade by CML Distribution. P.O. Box 3563, Rednal, Birmingham. B45 9TF. Tel (0121) 457 7568 Fax (0121) 457 7759



The latest servo saver gives a greater degree of control, having less 'give' than before, whilst the moulded servo mounts prevent the servo itself from moving. Powerful, metal geared servos are advisable!