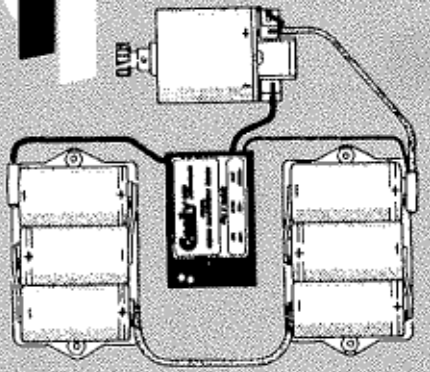




CORALLY DIGITAL MOTOR MANAGEMENT SYSTEM



One of last season's major breakthroughs in onboard systems almost passed by unnoticed by the press and public alike. Why? Who knows, some things just happen and there's not a lot that anyone can do about it! The Corally digital motor management system was one of those things that just happened and while many drivers realised the advantages of this controller straight away, many were not aware, or made aware of the advantages that this system can bring, hopefully we can alter that.

First we must say straight away that this is much, much more than a speed controller, it is, as the title of the piece rightly states, a digital motor management system and that means it does an awful lot more than make your car go and stop.

It's All Torque To Me

All motors, be it a humble 540 or the latest family of aeroengines, will only give so much power before they melt,

explode, implode or generally do something very, very, nasty to themselves. One of the factors that leads to this, not very satisfactory state of affairs, is that all motors are very fuel greedy, in as much as they will continue to consume vast quantities of whatever fuel is providing their motive power, without giving anything extra in performance terms long after it is either viable in terms of economy, or wise in terms of their own longevity to do so. The motors that we electric racers use are no exception and will continue to draw more amps than is actually needed after full power has been selected. This is a real problem because it means that your duration is reduced for no extra speed. At the same time your motor is heating up rapidly to somewhere near the meltdown point, meanwhile your fragile S.C.E.'s are really suffering because so much more than necessary is demanded of them.

Now you can change all that because Corally's motor management system will constantly keep checking

that while your motor is giving power, the amperage used to give that power is always at the minimum level, or put another way never more than necessary, this is the first way in which this system conserves energy. Secondly, the Corally system utilises the little known fact that an electric motor is merely a generator operating in reverse and during braking when using the Corally system the motor is allowed to charge the battery at a 5000 Hz pulse rate, thereby increasing the system efficiency rate further!

It's All Very Well But Does It Work?

Quite simply the answer must be, yes it does! Several drivers competing in last year's one tenth circuit races had considerable success using the Corally system. As yet I don't know anyone using this system off road so I can't comment for that particular branch of our sport. One thing that stands out like a sore thumb is how much easier any car is to handle when using this system, because the motor is never fed any more power than it can use, acceleration is both smooth and rapid. If anything, cars fitted with this system

are accelerating faster than cars without it, due no doubt to a spin off from the never-drawing-more-current-than-you-need factors already discussed, wheelspin rarely occurs, meaning that all usable power is going exactly where you want it onto the road surface. Couple that to the energy being put back into your cells to give extra run time and you have a sure fire winner!

A clear list of running and setting up instructions is provided with the motor management system which must be followed to the letter. Every unit leaving the factory has been checked under the tightest of scrutiny for faults, up to and including full power runs. You have been warned!

Finally

We feel that this is one of the finest pieces of equipment to hit the R/C car world for some time, having used one for a while it has certainly improved our lap times and race endurance. We must say that full marks should go to Corally for this item and could recommend its use to just about anyone.

Available from Intronics, Unit 4, Bay Works, Marine Road, Pevensey Bay, East Sussex. BN24 6EG. ☉

