

# ASSOCIATED'S RC10GT

AUGUST, 1994

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# COMPETITION



# PLUS

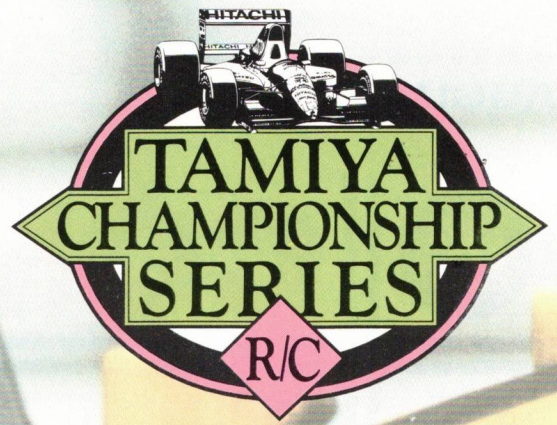
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ROAR'S ON-ROAD 1/10 & 1/12 NATIONALS

# GO FOR IT!

## Race #6



### TAMIYA R/C CHAMPIONSHIP SERIES

Race your way to fame in Tamiya's new 1:10 scale on-road R/C Championship Series. **Race #6 will be September 25, 1994. The race will be hosted by Larry's Performance RC, 3430 Highland Road, Waterford, MI 48328—(313) 683-5529.**

**No Entry Fee! Entries are limited to 48 racers per class and all racers must pre-register by mail or fax. Reserve your place now for this free event.**

The Championship Series continues monthly at different locations across the country. Come join the fun as you compete for trophies, national press coverage, even celebrity status. You can race—modified or stock—in Tamiya's Formula Ones, Four Wheel Drives, Front Wheel Drives and Group C cars. All scale replicas of some of the racing world's greatest legends.

To get in on the action, see your R/C retailer for times, dates, locations, race rules and Official Entry Forms or phone 1-800-TAMIYA-A. Then show-up and show-off at the Tamiya R/C Championship Series races nearest you.



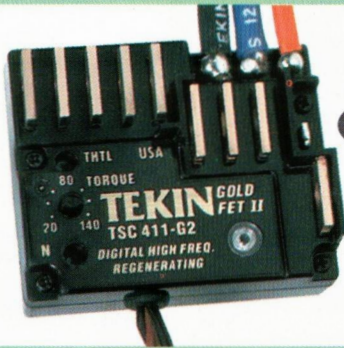
Representing competitors from the three categories in Tamiya's 1994 R/C Championship Series—Formula One, 4WD/FWD and 2WD Group C racers. From the left: Benetton B192, Alfa Romeo 155 V6 TI, Castrol Civic and the Nissan R91CP.



# NEW

### NEW - GoldFET II Speed Control

More Fets, More Amps, More Power! Every Possible feature, and More. New Wire-Terminal Solder-Posts let you easily replace the power wires yourself, so they are always just the right length. VERY convenient. Will also drive big twin motor trucks, with up to 4 servos. #411-G2. Also available, the new #411-P2.



BC 67



### NEW - BC 67 AC/DC Powered Peak Charger

Convenient operation with High Performance design. All Digital electronics with LCD readout of Volts, Amps and Time. Three different Charge Profile modes for Ultimate Performance. Compact and Rugged, with 5 Amp output, and Built to Last. #BC 67. Also available, #BC 48, DC Powered version.

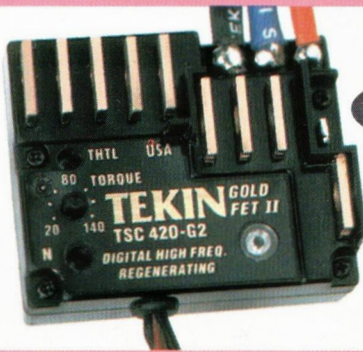
411-G2

# PRODUCTS

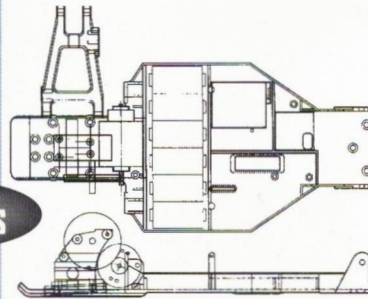
# FROM

### NEW - High Voltage Speed Control

For those real Insane and Record-Breaking Drag Runs, this is THE speed control. ALL GoldFET II transistors and special internal construction to drive AND stop the latest motors, up to 20 CELLS. With 10 Gauge Wire-Terminal Solder-Posts, and massive amp capabilities, it's the latest thing. #420-G2.



420-G2



Chassis

### NEW - Chassis Kit

Molded Carbon Fiber (Graphite) Mid-Engine, high performance replacement chassis kit with the Tekin Active-Link rear suspension for the RC-10 Stealth and RC-10T. Delivers noticeably quicker, improved and more Sure-Footed handling response. Reduces annoying spinouts. Actually drops most lap times by .1 - 1.0 seconds. Includes all hardware and fittings, and saves about 3/4 ounce. #ACK-801 and #ACK-T01.

# NOW.

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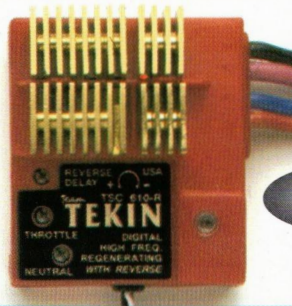


### Not NEW - A Charging Classic

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The Traxxas SRT, like all top-level competition race trucks, features new, super-rigid, composite suspension components. However, the similarity stops there. **Traxxas suspension parts don't break!** Our new, performance-tested, composites deliver the perfect stiffness for ultra-precise handling, but, unlike the parts used by other "teams," ours won't break and leave you stranded in the middle of a race. **In fact, the materials we use are so superior, that we guarantee every suspension part on the SRT against breakage.\* If it breaks, we will replace it, FREE!\*\***

### TRANSMISSION

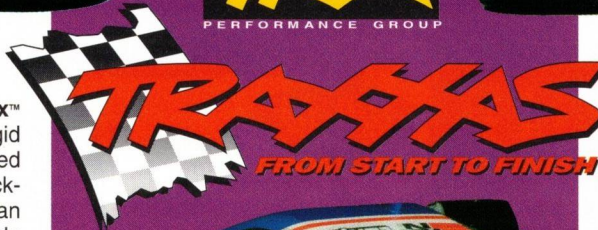
SRT's new **272 MAGNUM** transmission is super-efficient with its new, highly-refined, smaller, lighter, dual-ball bearing, ball differential. Built specifically for the truck, you'll see the results in faster launches off-the-line and blazing acceleration out of the corners.

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- Super-strong, guaranteed-tough, composite suspension parts
- New **272 MAGNUM** transmission with slipper clutch
- New precision, hex-drive hardware
  - Ultra-rigid **Zero-Flex** chassis
  - Heavy-duty bellcrank steering with perfect geometry
  - 16 high-grade ball bearings



### THE FINAL BLOW

The SRT is the first and **only** truck that backs its claims with the no-breakage guarantee, and the only premium truck that doesn't carry the premium price. It's the best truck and the best deal!



**PRO-LINE  
XTR TIRES  
INCLUDED**

\*Covered parts include suspension arms, caster blocks, steering blocks, suspension arm mounts, and stub axle housings.

\*\* Return the broken part to Traxxas with a description of how it was broken for a free replacement. Normal wear is excluded. Available to registered owners with warranty cards on file.



# COMPETITION



# PLUS.

## DEPARTMENTS

### 6 MAILBOX

*Letters from Our Readers*

### 8 FINISH THE LAP YOU'RE ON

*Editorial Comments*

### 10 PIT BOARD

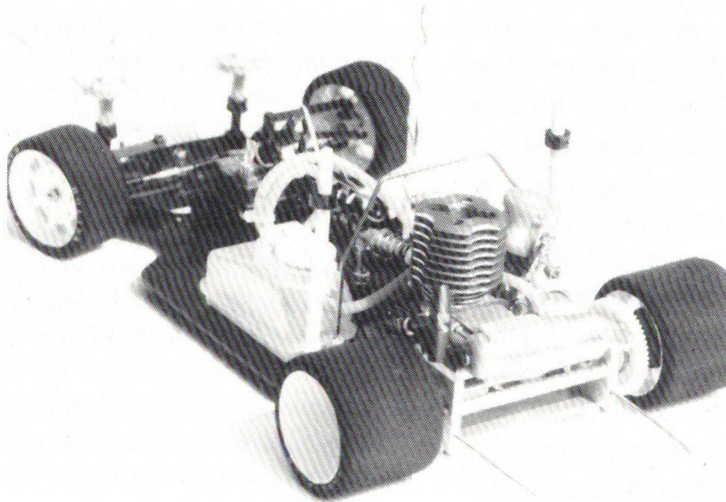
*Late Breaking News*

### 57 RACING SCHEDULE

*Race Locations From Around The Country*

### 66 FOR THE RACER

*New Products In The Marketplace*



## FEATURES

Page 14  
CIRCUITS OF  
AMERICA

Page 17  
TEKINEWS

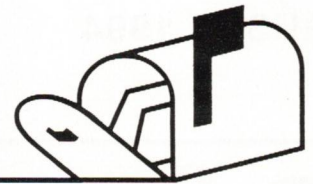
Page 20  
ROAR 6 CELL  
ON ROAD NATIONALS

Page 28  
ASSOCIATED'S  
RC10GT

Page 42  
DYNAMITE'S  
APEX 10

Page 49  
COMPUSERVE  
INFORMATION  
SUPERHIGHWAY

# CP's Mailbox



*Competition Plus is a magazine dedicated to racing and racers. From time to time, you may need an open forum to express your ideas or thoughts on racing or a racing subject. This section is for you the racers! Write to: Mailbox, Competition Plus, 23182 Alcalde, Suite K, Laguna Hills, CA 92653 or Fax (714) 830-5108. We'll be waiting for your opinions!*

## **NO QUIT!**

In your current issue, the "Pit Board" section identified the winners of the Lake Whippoorwill U.S. Oval Masters. The article failed to mention the *Amateur 200 Enduro Race*. I realized this error because I had the privilege to meet the winner of this race, Mr. Chuck Massy. Chuck did not know me from Adam but helped me with my car when no one else would.

In this day and time when it seems people look for excuses for any failures, Mr. Massy stands alone as someone who refuses to give up. It would be easy for Chuck to give-up, or look for excuses because he lost his leg to cancer a few years back. But not Chuck, he not only continued to race R/C cars, he has become a *Lake Whippoorwill Champion*, a feat only a few can claim.

**David Perry**  
**Jackson, SC**

## **A GOOD IDEA**

I wanted to drop you a line to let you know about an outstanding RC racing program that is sponsored by one of our franchise stores.

In case you are not familiar with HobbyTown USA, we are a na-

tional franchiser of hobby stores. We have locations in 35 states, and we should be surpassing the 100-store mark in the next two months! Our stores all carry complete lines of RC car and truck products, both in ready-to-run and kit form.

As a natural sideline to the retail stores, many HobbyTown USA stores also feature RC racing programs, either on dirt tracks or on parking lots. Dennis and Janet Crippen are store owners in the Phoenix-Scottsdale metropolitan area. They currently operate two HobbyTown USA stores, with a third one due to open this Summer. Their RC racing program is one of the best I have ever come across in my 25 years in the hobby industry.

I thought you might like to write a feature on their program. The Crippens hold races four times a week, and routinely get over 50 racers per outing. Their approach to racing has been to make it a family entertainment venue, and there are often fathers, sons, mothers, and daughters racing together! They have received coverage in Phoenix newspapers, but we felt that exposure of this type of racing program could provide ideas to other hobby stores around the country.

If you are interested in talking further to the Crippens regarding their outstanding program, you may want to contact them at the Gilbert, Arizona store address:

*Dennis and Janet Crippen*  
*Smitty's Township Plaza*  
*1915 East Baseline Road*  
*Gilbert, AZ 85234*  
*(602) 892-0405*

I hope you find their racing program to be as exciting as I do! Theirs can serve as a model for others to follow! If you have any questions, please feel free to contact me or James Hogg, our Vice President of Franchise Services.

**Merlin P. Hayes**  
**President**

*It sounds like a great idea, and we've included their number in the letter so other clubs in the area can get in touch with them. It is true that we need to continue to make racing a family sport. If we gear R/C cars only to one member of the family, our sport will soon die. We too, have heard some great things about the HobbyTown race program in Arizona, and we wish both yourself and the Crippens the best of luck with the new shop and we'll be contacting them for a story.*

**-Editor**

# Velodrome

Hosted by

## SHELDON'S HOBBIES

### SEPTEMBER 16, 17 & 18

#### AT THE HELLYER PARK VELODROME

A facility of the County of Santa Clara Regional Parks and Recreation System. San Jose, Ca.

**NASCAR/INDY BODIES ONLY - WINGS OK - REAR BODY CUT OUT OK  
SOLID AXLE PAN CARS - NO HAND WOUND STOCK MOTORS**  
SPONSORED DRIVERS MAY ENTER IN PRO STOCK OR EXPERT MODIFIED ONLY.  
"ROAR '91" MOTORS IN STOCK CLASS - PRO STOCK, UNLIMITED TIMING  
**BATTERIES:** STOCK CLASS & SPORTSMAN MODIFIED, 6 CELL 1400 SCR'S ONLY.  
PRO STOCK & EXPERT MOD, 6 CELL 1400SCR, 1700 SCRC OR 1700 P170 ALLOWED.

**FRIDAY, SEPT. 16TH - CONTROLLED PRACTICE - GATES OPEN AT 8:00AM**

#### **SATURDAY SEPT. 17TH**

GATES OPEN AT 8:00AM

9:00AM - 10:30AM DRIVERS CHECK IN  
ALL DRIVERS MUST CHECK IN TO RACE!  
10:30AM - 11:00AM DRIVERS MEETING  
11:00AM - 12:00PM OPEN PRACTICE  
12:00PM - 1:00PM SUPER SPEEDWAY PRACTICE  
1:00PM - 4:00PM 1ST ROUND QUALIFYING  
3:00PM - 6:00PM 2ND ROUND QUALIFYING

#### **SUNDAY SEPT. 18TH**

GATES OPEN AT 8:00AM

9:00AM - 9:30AM STOCK PRACTICE  
9:30AM 10:00AM MODIFIED PRACTICE  
10:00AM - 10:30 SUPER SPEEDWAY PRACTICE  
10:30AM - 1:30PM 3RD ROUND QUALIFYING  
1:30PM - 2:30PM OPEN PRACTICE  
2:30PM - 6:00PM MAIN EVENTS  
6:30PM - TROPHY PRESENTATION

----- ✂ -----  
**LIMITED TO FIRST 150 ENTRIES - ENTRY FEE \$30.00, SECOND CLASS \$20.00 - \$3.00 PARKING FEE  
(ADD \$10.00 PER CLASS FOR ENTRIES RECEIVED AFTER AUGUST 31ST)**

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STATE \_\_\_\_\_ ZIP \_\_\_\_\_ DAY PHONE (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ EVE. PHONE (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

**NASCAR CLASS(ES):**  STOCK  PRO STOCK  SPORTSMAN MODIFIED  EXPERT MODIFIED  
 NASCAR SUPER SPEEDWAY (EXPERT ONLY) **INDYCAR CLASS(ES):**  PRO STOCK  EXPERT MOD.

FREQUENCY: 1ST \_\_\_\_\_ 2ND \_\_\_\_\_ 3RD \_\_\_\_\_

**NO ENTRIES ACCEPTED UNTIL AUGUST 1ST**

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Competition Plus allows its columnists the fullest expression in discussing controversial subjects, so its readers will be better informed. The views expressed may not necessarily agree with those of the magazine.

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# Finish The Lap You're On!

*By Peter Barana*

**O**ne of the great things about working and writing for this magazine, as opposed to some of the others we publish, is the honesty and openness with which we can write. You take our sportfishing magazine for example; one of the facets that we cover is saltwater fly fishing. Personally, I believe it is one of the most ridiculous forms of fishing known to man. Yet, there's really no way to tactfully (who needs tact) put my feelings into words in our sportfishing publication.

Likewise, it's really difficult to insult somebody's home, recipe or piece of art as we often should in our Huntington Harbour magazine. In the sport of R/C, however, the magazine has grown in an open fashion where we can truly call things as we see them.

This openness may be more from the sport itself than from anything we've done with Competition Plus. After all, when you're up on the stand in a heat race or your main, you're really up there alone and naked, so to speak. Bang into every wall and hit every corner dot and the laughs and chuckles will begin, and they'll be directed your way.

Like many individual sports, if you win or lose there's really nobody to blame or praise other than yourself. Maybe in that statement is the essence of why we race.

As an avid (more like rabid) soccer fan, I appreciate the total team effort, and in fact when a team sport is done right, there are few visions in sport more beautiful. Yet, as I get older I find myself becoming more attracted to the individual sports. The ultimate individual sport, golf, takes up a few hours of my time every day. And yes, racing too, is something that I've become more addicted to, even after all these years of competing and working in the sport.

Of course, there are those that will argue that R/C racing is a team sport. At the upper levels it is true that the drivers don't always work on their own cars, but even at that level when you're up on the stand it's you and you alone.

*Peter Barana, Editor*

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For First Class add \$15 per year - For Overseas Airmail the rate is \$68 per year - For Canadian Airmail and Overseas Surface the rate is \$39 per year



# PIT BOARD

## Polimeda Powers to Speedworks Win!

FRANK POLIMEDA OF TEAM TRINITY was the winner of the "Speedworks Speedway Showdown #1 for 1994. This first event was sponsored by Speedworks for the local level drivers and was held at Hobby World Raceway in Plainville, Conn. The turnout was good considering it was opening day for 1 to 1 scale modified racing, which a lot of local racers are devout followers of or participants in.

Frank was fast all weekend not only winning but he was the top qualifier as well. Frank, of course, used a Trinity Evolution 10SS car, Trinity Ex-Tech modified motors with the RC 4383 "Silver Serrated" motor brushes, and Trinity "World-Tech" 1700 SCRC battery packs.

Following Frank in the Modified A main was Steve Flume in second and Rick Icker in 5th both running Evolution 10SS cars. Steve was "Mighty Powered" and Rick Ickers used Trinity motors and batteries.

## *BoLINK Adds Class To R/C Racing!*

**B**oLink's R/C Legends are a whole new class of R/C racing - affordable and FUN! Choose a classic '37 coupe or sedan body, just like the 5/8 scale LEGENDS cars from 600 Racing, Inc.

These BoLink kits come complete, less electrics, and are also available with a special motor and 4 cell battery packs made by Trinity Products. Each kit includes special R/C LEGENDS racing rules, to make the racing the same - and give everybody the same chance to win!

This new form of racing will be great fun for beginners and experienced racers alike - so become an R/C LEGEND today! (R/C LEGENDS bodies, cars and logos are authorized to BoLINK R/C Cars, Inc. by 600 Racing Inc. for our exclusive use in the R/C industry.

# PIT BOARD

## Genesis Modifieds Prove To Be Too Much For Competition

Team Driver Sean Cochran took no prisoners at the Bud's 4th Annual Paved Oval Championships held at the Ameri-Trac Super Speedway this June. Sean busted the 400 foot concrete tri-oval A-Main Modified win with a Genesis 14 DBL. Team driver Steve Lafara owned the competition winning the Stock A-main using a Genesis tuned stock motor.

Oklahoma City, Oklahoma's RC/RC hosted the 1994 NORCCA Off-Road Nationals this past June showcasing over 400 drivers from around the country.

Team drive Todd Freimiller, with a Genesis 13 triple, Checked out on the competition in the Modified Truck class with A + Q and A Main win! Todd also finished 5th overall in the Expert Stock Truck class using a Genesis tuned stock motor.

Congratulations to Sean, Steve and Todd for their outstanding efforts!

So remember, if you go to the track to win, call Genesis Racing Products at 314-939-4404 today!

## *The Results Are In And MIP Is Still On Top!*

THE '94 NORRCA NATIONALS held in Oklahoma City are over and the results are in the books. After the dust cleared, the racers who used MIP products on their cars and trucks were on the top again.

Brian Kinwald, World Champion and new Trinity/Losi Team driver is still using the MIP CVDs. Brian drove his Losi XX car, with MIP CVDs right into the winners circle, along with taking the TQ position in the Factory 2WD Modified Class. The Factory 2WD Modified Class had seven out of the ten A-Main drivers running CVDs in their cars.

Associated's Mark Pavidis, TQ'd the Factory Modified Truck Class using MIP CVDs in his RC10T and five out of ten A-Main drivers in Factory Modified Truck had CVDs in their trucks.

Factory team drivers are not the only racers to go to the top with MIP products. In Expert Stock Truck and Expert 2WD Stock, both Top Qualifiers used MIP in their vehicles, with Jimmy Babcock taking 1st place in Expert Stock Truck. So what does all this prove? It proves that when running with MIP any RC racer can make it to the top, not only factory drivers. GET MIP.

Congratulations Guys!!!

# PIT BOARD

## The Tamiya R/C Championship Series *Race #4 South East*

**T**HE TAMIYA R/C Championship Series Race #4 is scheduled for Sunday, July 24, 1994 at Andy's Hobbies/Miami RC Speedway. The address is 12546 N. Kendall Dr., Miami Fl. The phone is (305) 271-3101, and fax is (305) 595-3623, contact Jeff Mayorga. The entry fee, which includes a free hand-out Sanyo N1400SCR battery pack is FREE! However, all entries must have been received by Tuesday, June 19, 1994. Registration opens at 8:00 A.M. and racing starts at 9:45 A.M. Drivers late to register may lose their space to standby's. Factory or manufacturer sponsored drivers are not allowed to compete for awards or prizes. Drivers must compete with the hand-out battery pack, which they may keep.

Classes for the series include 4WD and FWD Stock and Modified, which is a 24 driver maximum, Formula 1 and Indy Stock and Modified, which is a 48 driver maximum, and GTO and GTP Stock and Modified, which has a 24 driver maximum.

### **Qualifying Races**

The qualifying races will be 5 minutes long and each driver will compete in 2 qualifying heats. The fastest 10 per 15 entrants in each class will proceed to the semi-finals. All vehicles must be ready to race 1 heat in

advance (if driving in "D" qualifier, then you car must be ready and inspected during the "C" qualifier).

### **Semi-Final/Finals**

All semi-final and final races will be 5 minutes long, and the 5 fastest Stock and 5 fastest Modified cars, per class, proceed to the finals.

### **Awards**

Awards to be given out include First, Second and Third Place for classes including: Formula 1, Stock and Modified, Sedan, Stock and Modified and GT Class. Other awards include Top F1 Rookie (13 years and under), Sportsmanship Award F1, Top F1 Qualifier, Best of Show F1, Top Sedan Rookie (13 years and under), Sportsmanship Award Sedan, Top Sedan Qualifier, Best of Show Sedan, Top GT Qualifier, Top GT Rookie (13 years and under), Sportsmanship Award GT, and Best of Show GT. All first, second and third place winners will receive trophies and the remaining categories will be plaques. All winners must be present to receive awards.

Door prizes will be given out at the end of the final race. Good Luck, and we look forward to seeing you there!

CP

# PIT BOARD

## Peak Takes Region 4

Peak Performance driver, 'Lil John Walters, took 1st place in the Modified Truck A-Main at the '94 ROAR Region 4 Championships in Orlando, Florida. Hosted by the G.O.A.R. Club, a good time was had by all.

With this victory, 'Lil John took the regional title and also qualified to compete in the ROAR Off-Road National Championships later in '94. Congratulations, 'Lil John:

A Peak Modified Motor and Team Orion Matched Cells powered 'Lil John's LXT Truck into the Victor's Circle.

---

## MIP Is Gassed!

MIP is proud to introduce you to its new gas products line. They said it couldn't be done! MIP's gas technology is so advanced that it has veteran manufacturers scratching their heads and saying it can't work. Well, it not only works, it WINS! MIP has spent 18 months developing, testing and winning races with our new gas products. The success of Eustace Moore Jr. and B.J. Christensen has proved again that MIP is #1 in Hi-Performance R/C products.

## *New V410PF ProFET ESC TQ's & Wins New England States Championship*

Vantage Engineering's new microprocessor controlled V410PF ProFET ESC proved unbeatable in the car of Vantage Team Driver "Ballistic" Bill Bombard as he dominated the New England States Championship by TQ'ing and winning the A Main at K/N Speedway in Stafford Springs, Connecticut, home of the "Winter Blast." Bill got his revenge as he also TQ'd at the "Spring Sizzler," but a mishap with backmarkers robbed him of a win. Bill accomplished his TQ run starting from the 5th position, so when he started from the pole in the main, the new ProFET transistors in the V410PF packed such a punch, that Bill got an incredible hole shot. He had a lap on almost the entire field at the end of the race and an unbelievable 1/2 a lap on the second place car! With no potentiometers to drift, the one button set up on the V410PF made it easy for Bill to adjust the ESC that propelled him to this victory. The new Vantage Engineering V410PF ProFET ESC is available now for all racers, at your local hobby shop.

# Circuits of America . . .

## Speedworld Hobbies

*Wakefield, Massachusetts*

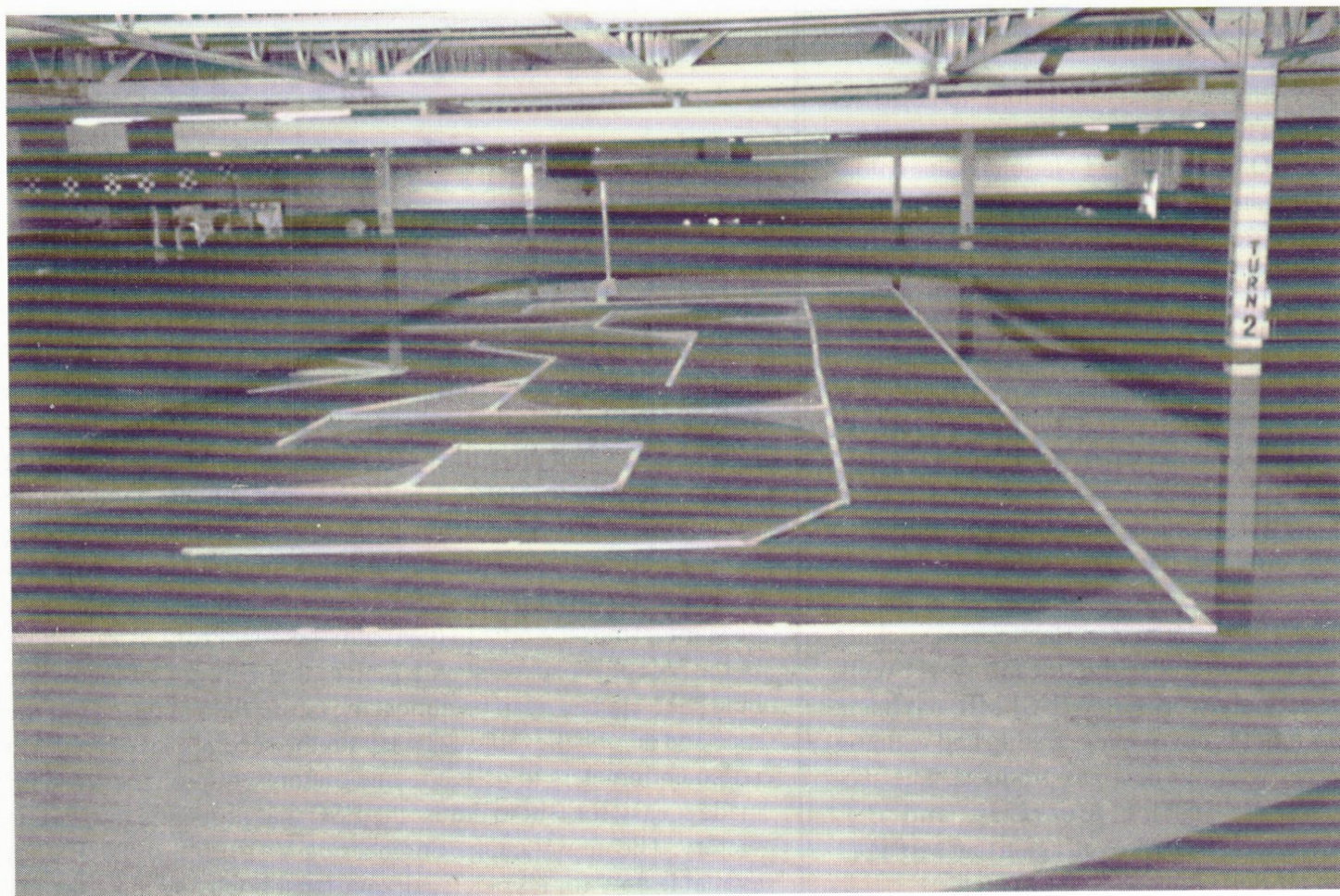
*By Jim Siegel*

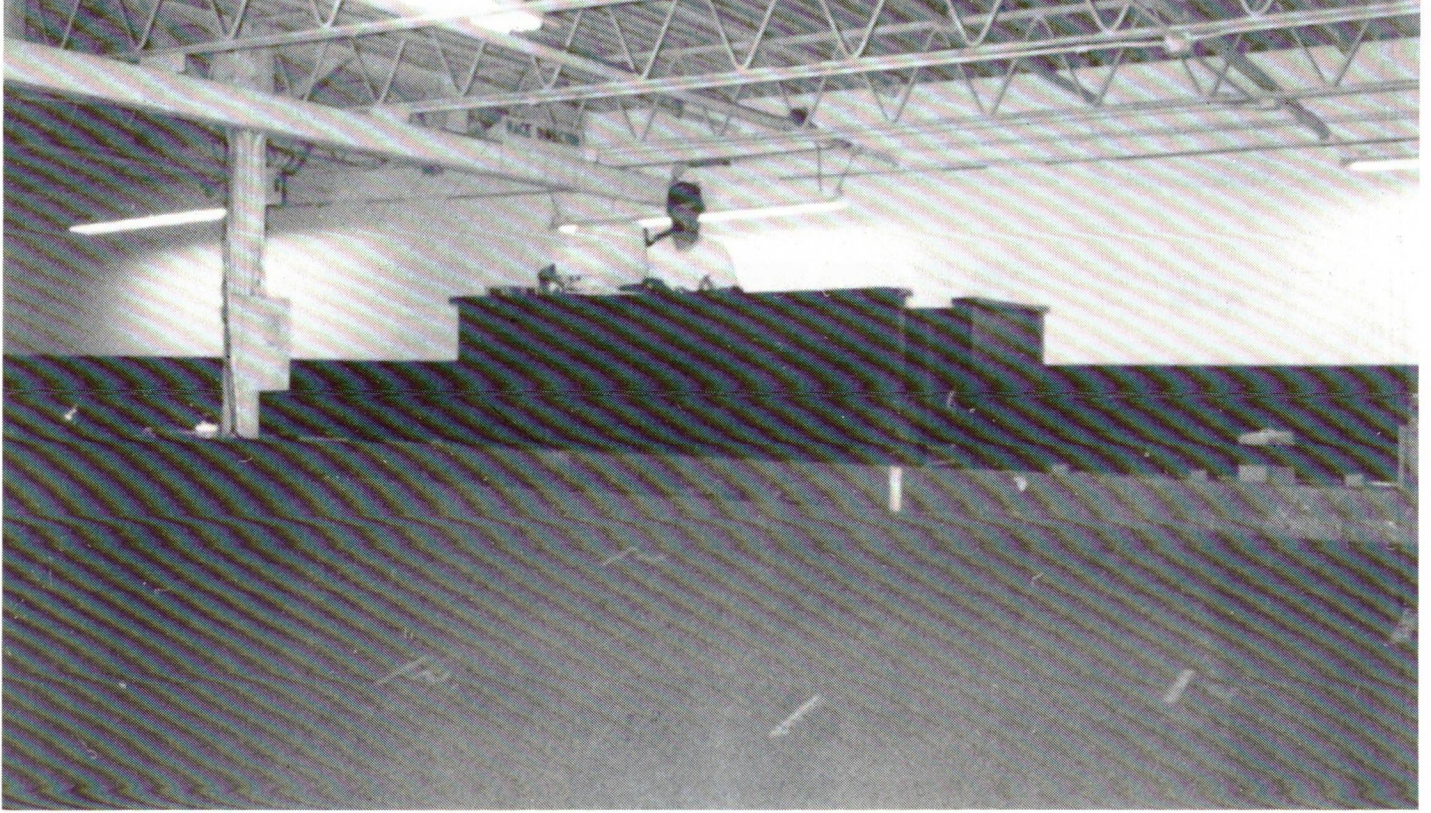
*Photos By Butch Moulton*

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In Wakefield Massachusetts, a track has re-opened. People knew the track as Fox Hill Raceway now it has re-opened with the help of Frank Medeiros and is now called SpeedWorld and SpeedWorld Hobbies. The track is located just a few minutes off of route 95, at 134 Water St. This track is a carpeted superspeedway, in the fastest way, the center line is about 330' and is banked all around, they also have a road course in the middle of the carpet track, it is a painted surface with all kinds of traction. They have enough pit space to accommo-

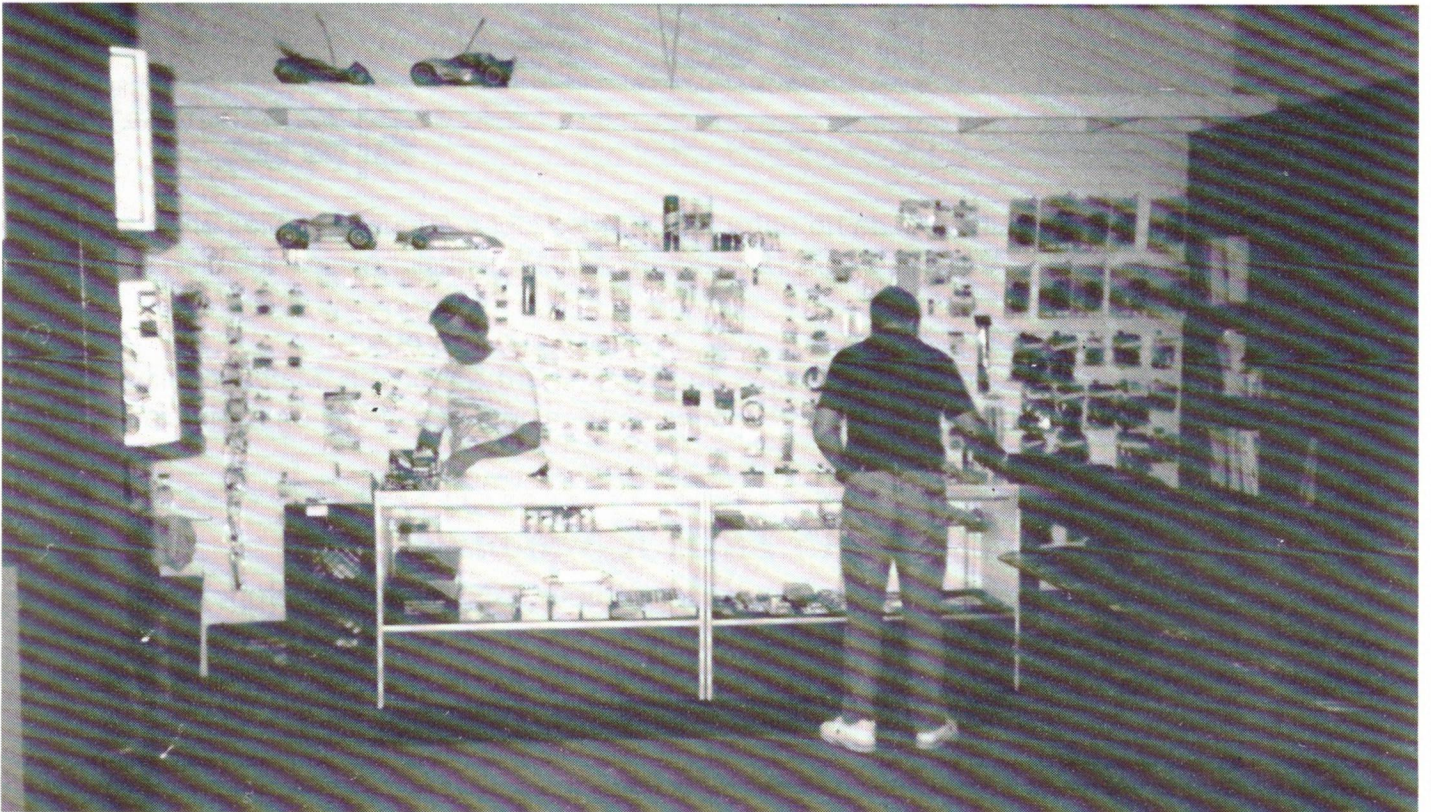
date 130 racers, along with a hobby store, snack bar, and games. The doors open every day at 11:00 A.M. except Monday and Wednesdays they are closed. Sunday racing is 1/12 on road, 1/12 oval and Indy Spec Cars, racing starts at 1:00. They also have what they call Pro Help Day, this is when the local pro drivers help out the beginners and entry level drivers. The Pro's will help with tips and advice from opening the box, building the car, painting the car and set-up. This is a great idea, it gives the beginner novice drivers some





kind of direction to go in, this way if they do have a problem they can just ask and receive some help instead of being upset and discouraged. Tuesday racing starts at 7:00 with 1/10 Stock and Modified. Thursday racing starts at 7:00 with 1/10 Stock and Modified, 1/12 on road, and 1/10 Outlaw Trucks. Friday racing starts at 7:00 with trucks, gearboxes, indy spec cars and 1/10

Stock and Modified oldies-run, the oldies, but goody bodies. Saturday racing starts at 7:00 with 1/10 Stock and Modified, also outlaw trucks. As you read there is plenty of racing for different types of classes, if you any more questions about the facility contact: SpeedWorld, Frank Mederios, 134 Water St., Wakefield, MA 01880, (617) 245-3922.



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SEPT. 3 - 4



Entry Fees: \$45.00. The exhibition has no entry fee. Entries close August 31. Mail entry and check to TK's RC Park, Box 31266, Amarillo TX, 79120. 806-622-0017. Track physical location is, 2921 Old Claude Hwy.

Hotel Info: Comfort Inn 800-221-2222. Ask for the TK Race Park race rate.

Schedule: 1st - 2nd open practice 9am - 8pm, 3 qualifiers on 3rd & 1 on 4th, Mains to follow 4th qualifier. Qualifiers will be 7 minutes. Triple "A" mains of 15 minutes ea. Final check-in closes 9am on the 3rd.

.....  
**1994 GAS TRUCK Nationals**

(for a confirmation letter, enclose a self addressed stamp envelope)

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(1) .12 Gas \_\_\_\_\_ (2) Exhibition 1/8th \_\_\_\_\_  
FREQUENCIES 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ Amt. enclosed \_\_\_\_\_

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# TEKINEWS

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Tekin Staff

## *Tekin Motor Dyno Theory*

**E**lectric motors are not like gas motors. On gas motors it is very difficult to track down power losses. Some fuel is converted to heat. Some fuel is exhausted without being burned. The unburned fuel is very hard to track down.

Electric motors take electrical energy in and put out mechanical and heat energy. You can track down the power in an electric motor very easily. Ideally, all the electrical energy put into the motor would also be available at the output shaft of the motor for mechanical work. As no electric motor is perfect, there will always be some power loss, and the power loss will take the form of heat. There are no other unaccounted for power losses. This is a very simple yet powerful concept.

So on an electric motor: Power out equals power in minus power loss. This is the same thing as "Power out equals power in minus heat power loss."

Most motor dynos will attempt to measure power out, and power in, then calculate power loss. The

Tekin Dyno measures power in and power loss; everything left over is power out.

The power in is very easy to measure. With the Tekin Dyno, the power loss is also very easy to measure accurately. We will take a look at just how the dyno does this.

The Tekin Dyno measures the resistance of the motor directly. To do this, the dyno applies a 10 amp load to the motor, and then checks the RPM. This is what the zero knob that you adjust to 100.0 does, it gives a reference RPM value. The absolute value of the RPM is not critical. When you then press the load button, the dyno shifts to a 20 amp load on the motor. The RPM will drop from the extra load and the number that you zeroed to 100.0 will go down. The reason the RPM will go down is caused only by the internal resistance of the motor. If the motor had zero resistance the RPM would not drop at all. By knowing the percentage RPM change (which is what the readout shows you) for a fixed change in current (10 amps) you can determine the actual milli-ohm resistance

of the motor. The value rounds off to 5 milli-ohms per power number less than 100. A 70 power rating would be 150 milli-ohms ( $100-70=30$ .  $30*5=150$ ). A 90 power rating is 50 milli-ohms. A 95 power rating is 25 milli-ohms.

The resistance of the motor changes a lot with temperature, but essentially does not change at different loads, nor with different applied voltage (# of cells). The only exception is if the commutator is not round, the brushes may track better at low speed than high, resulting in a non-linear resistance curve, but this also shows up as a low power output motor, with erratic power readings due to brush float. If the commutator and brushes are in good shape the resistance is the same at all load settings.

Now you can see why this dyno is so "fussy". It is because the dyno detects every little change in resistance and the brushes/commutator compromise a very large part of the total motor resistance and the brushes/commutator are historically very unstable due to the high current being run through them, rela-

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# TEKINEWS

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tive to their small size. Nevertheless, the resistance of the motor is what determines its performance.

When you compare the number of turns and wire size of different electric motors, you are really comparing the motor's armature resistance. The Tekin Dyno lets you also factor in the brush and commutator resistance, for a complete look at how the motor will run.

Now that we know the motor's resistance, we could determine the peak current and maximum power input of the motor. Current is volts (of the battery pack) divided by resistance (ohms). Power is current \* volts. This is the maximum peak figures for the motor. The peak current (horsepower) determines how fast the motor can run at full throttle. When you apply partial throttle you apply less than full battery voltage and hence there is less current and power. If you want, you could plot the power input as a function of voltage, and make a graph. But all motors with the same resistance and amp-draw have the same graph, so you might as well just compare resistance and amp-draw.

The torque and RPM "curves" of a DC electric motor are actually straight lines. That is because the material properties of the motor do not change within the normal operating bounds. The only exception would be if there were a serious flaw in the basic motor engineering. An example of this would be a small piece of poor grade iron for the armature that saturates at say 80 amps, when you want to run the motor at 100 amps. In this case, you

would apply 100 amps to the motor, but only get the torque of 80. Motor engineering is best accomplished mathematically, not with any dyno.

Going back to the first formulas, we now know the power input of the motor. The other factor to consider is power loss. But guess what? The dominant form of power loss in an electric motor is heating due to motor resistance! On an electric motor, the power output is closely related to the power input. If you give a motor more power input, it will give you more power output. That is why Tekin's power rating (resistance) is the dominant factor in determining how the motor runs. The very same motor with the highest power input, will also have the lowest resistance power loss, and the highest power output. That also means it will run cool, without strain under load. Of course, if you apply too much throttle it will also dump the batteries faster.

There is one other factor to consider. That is forms of power loss other than resistance power loss. These running losses are such things as brush friction, bearing friction, air drag, iron and eddy current losses. Luckily there is an easy way to determine the total of all these. You just run the motor with no load on it. Whatever the amp draw is, that amount of power is all 100% power loss. This is because you are putting power into the motor and getting nothing out but heat. You want the no-load amp draw to be as small as possible, for any given power rating. Usually as you

build a motor with less resistance loss, the running losses will increase. The optimum efficiency occurs when the running losses and the resistance losses are equal. At lighter loads, running losses dominate. At heavier loads, resistance losses dominate.

So overall, you measure the motor's resistance (while running on the dyno). You then select a test voltage. You select a test amperage. You calculate the power input (volts \* Amps = Watts). You calculate the resistance power loss (current \* current \* Resistance = watts).

You run the motor at the test speed (test voltage less the percentage of maximum possible amp load. For example, if based on the test voltage and resistance the maximum possible amp draw is 50, and the test amperage is 25, you run the motor at 1/2 the test voltage). While running the motor at the test speed, you measure the no-load amp draw. Multiply the applied voltage by the no-load amp draw to get running losses, in watts. Take the watts power input, subtract watts of resistance power loss, as well as watts of running power loss and you have precise watts of output power.

If you really want to get tricky, you take the motor resistance and add it to the battery resistance, to get total circuit resistance. (You could also add in speed control and wiring resistance, but they are negligible with Tekin speed controls). Then you can precisely match different motors and batteries.

CP

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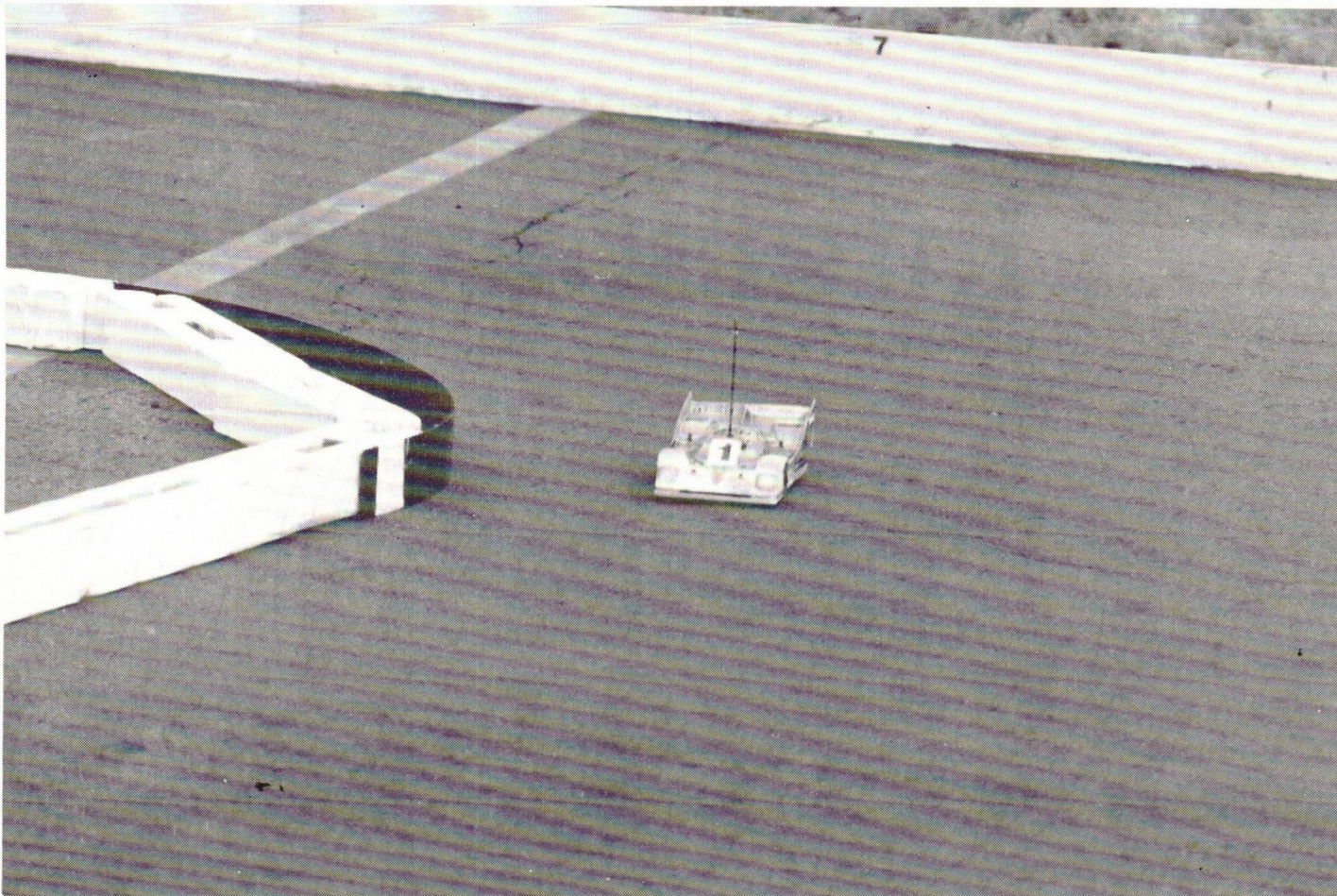
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## 1994 ROAR

# 6 Cell On Road National Championships

*By Glenn Barry*

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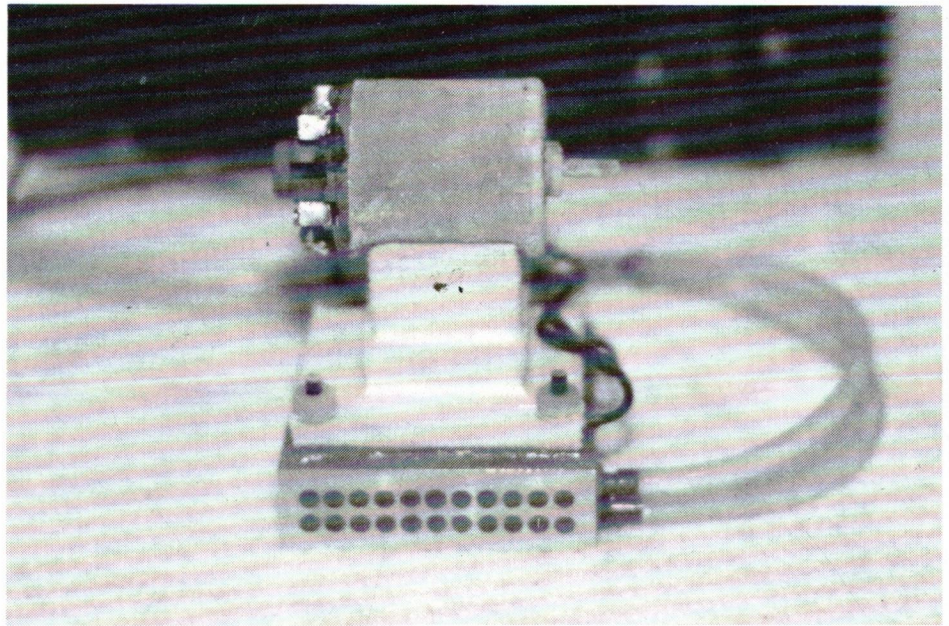
*Top: Jeff Brown's 1/12 scale stock winning car. Top right: A interesting product viewed at the Nationals was Jam Racing's motor cooler.*

*Bottom right: Always a potential winner, this is the car of Mike Blackstock. Blackstock went on to finish third in the Modified A.*

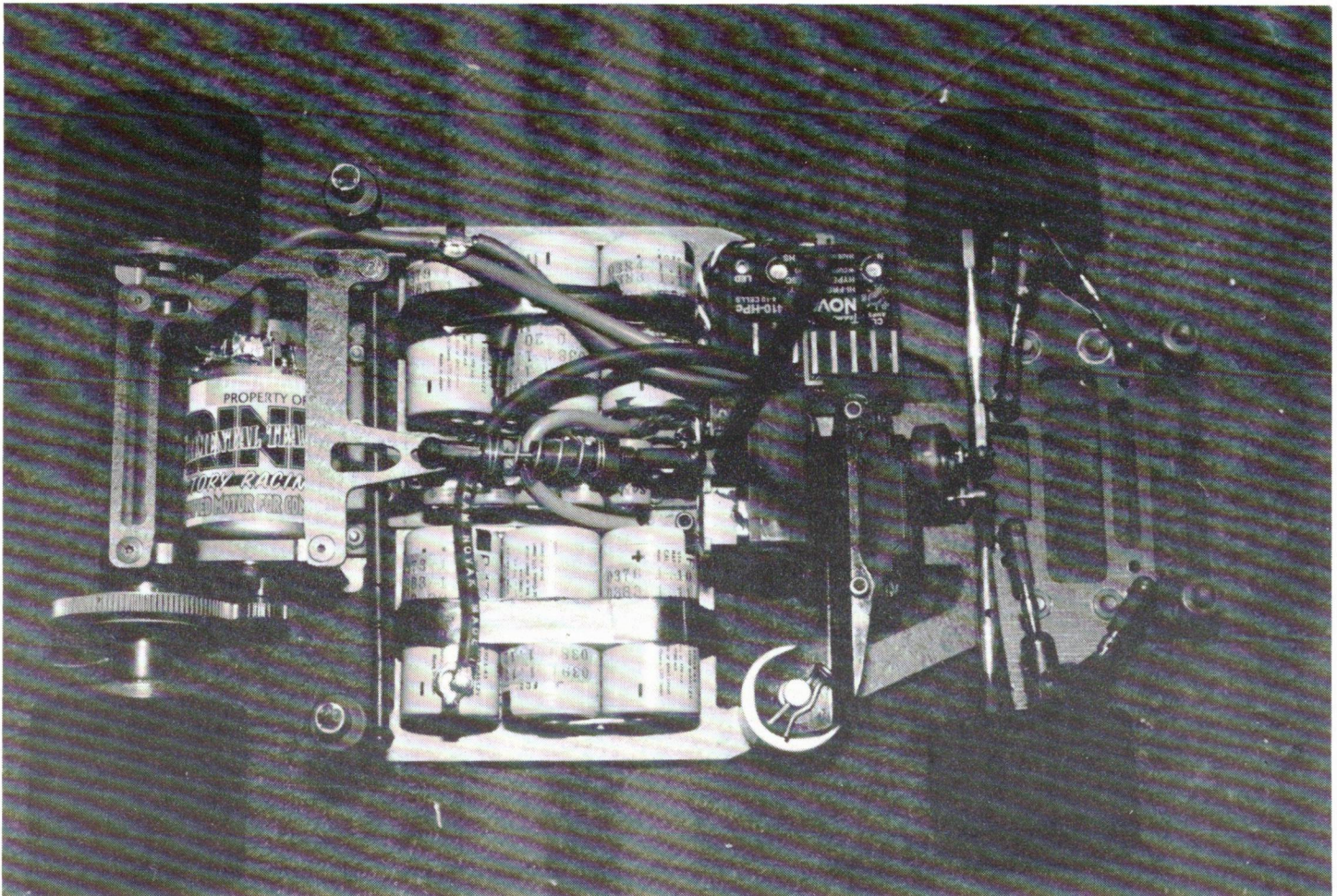
**A**s I drove down into the little valley I got caught up in the beauty of the scene. Nestled close to a tree-lined stream is a national caliber off-road course. With its reddish dirt and green grass border, it's the most striking race course I have ever seen. Looking out from the driver's stand, I find my thoughts go back to last year. A smile rushes across my face as I recall the commentary my friend unconsciously put on the video about the unique lines I was using during the Truck Nationals. I'm brought back to the moment by a sound behind me.

I turn to look and I'm now gazing on the sister track. The noise I hear is similar to that of a ninja's sword slicing the air. A flash of color

catches my eye. As it slows to navigate a corner I'm able to make out the silhouette of a 1/10 scale on-road race car. I see the driver a few feet away and immediately recognize him as one of the top drivers in the world. I eavesdrop as he talks to the car builder. "It's a little slow in the middle of the turn." "No problem," says the chassis master, "I'll have it ready by the next session." So it went. As groups of drivers tested tires, suspensions and gearing, adjusting on each car until it was handling just the way they wanted. Everything had to be the best it could be, since this was for all the marbles. The championships for 1/12 and 1/10 on-road ROAR Nationals were at stake. Anyway that's the way it was supposed to



have been. The story just told is true except for the track part. Due to bureaucracy and Murphy's Law, the road course could not be completed in time and up to the Rivertown Racers' high standards. What they did create was perfect. Racing would take place in the parking lot of the President's



*Top: The 1/12 scale stock class winners. Bottom: The 1/12 scale modified class winners.*

further proof that Ted McCarthy knows how to design a driver's course. Under his leadership it is a given that at any Rivertown Racer's event, you will enjoy a professional, enthusiastic and most importantly, fun, R/C racing experience.

9:00 a.m. Thursday started practice in two hour blocks by scale. 1/10 started first then 1/12 and so on. This worked well because if you had a problem in your practice, you could fix it and jump back in line for the next available time. Friday started with a couple of hours more of practice with 1/12 first and second qualifiers to follow. 1/10 scale qualifiers got underway around 3:00 p.m. finishing about 7:00 p.m. That left two more hours of controlled practice time completing the day. Saturday went on the same schedule and when the sun set, we had all settled into our own level. The top qualifiers in each class were as follows:

**1/12 Stock**

- 1st - Jeff Brown
- 2nd - David Chester
- 3rd - Scott Walter

**1/12 Masters**

- 1st - Jerry Cyrul
- 2nd - Steve LaFara
- 3rd - Carl Christy

**1/12 Modified**

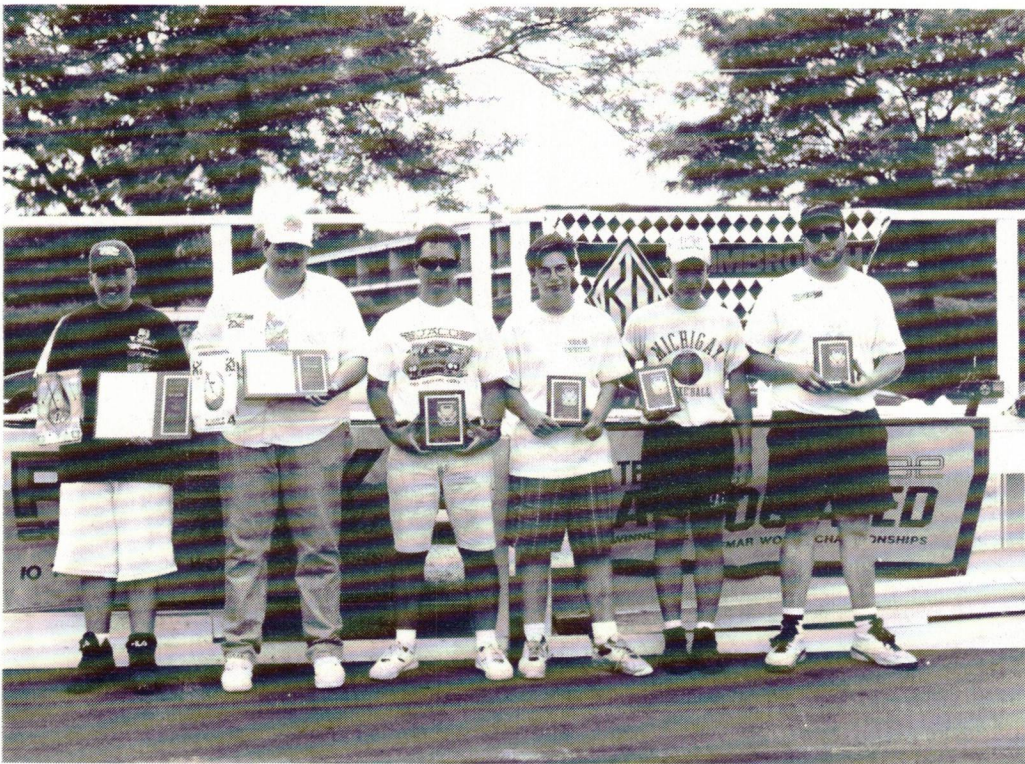
- 1st - Kevin Jelich
- 2nd - Mike Blackstock
- 3rd - Jon Orr

**1/10 Stock**

- 1st - Andy Power
- 2nd - David Chester
- 3rd - Walter Henderson

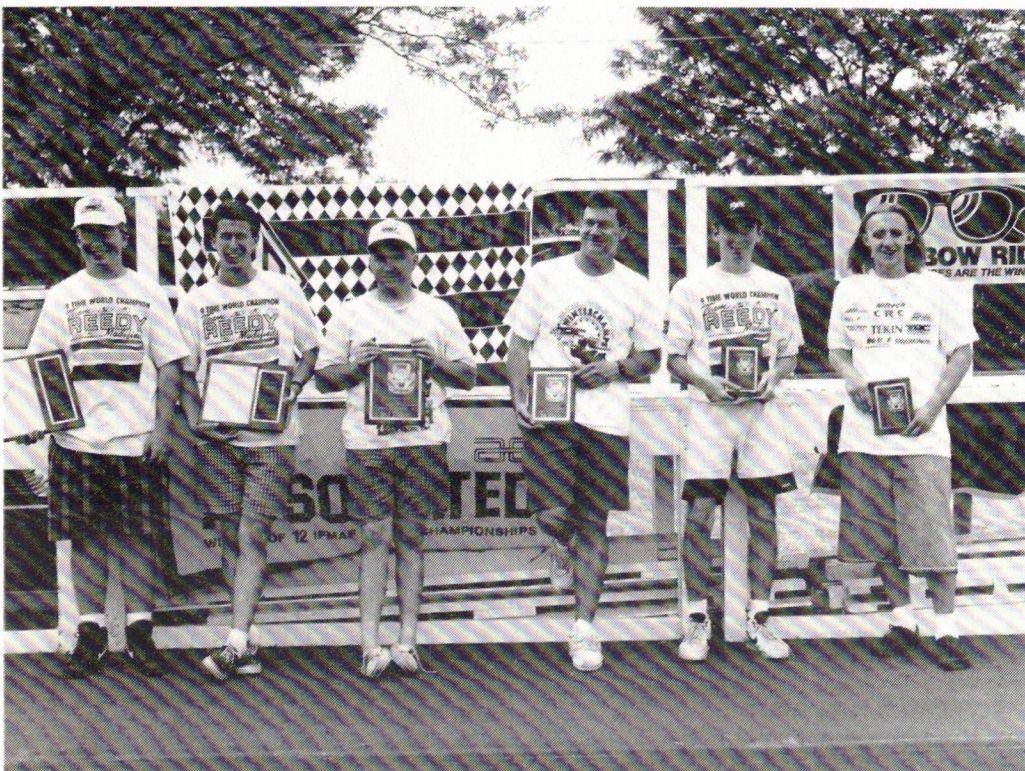
**1/10 Masters**

- 1st - Jerry Cyrul



Inn located in the northeast area of Grand Rapids, Michigan. Pitting would take place in the rooms of the Inn. This turned out to be a life saver, since the temperature stayed in the 90's.

The track was a true driver's course, with one real nice high speed straight-away and the rest made up of what seemed like one continuous turn. As soon as you finished one left, you had to set up for the oncoming right,



2nd - Carl Christy  
 3rd - Steve LaFara  
 1/10 Modified  
 1st - Mike Blackstock  
 2nd - Mike Lufaso  
 3rd - Josh Cyrul

So after three days of trying to get everything just right, plus the stress of this level of racing, what would you do to mellow out the night before the main event? As I tried (in earnest I must say) to get as much meat for this writing as possible, it became evident that most racers were nowhere to be found. About midnight, as I wandered the halls looking for the photos, I heard the sound of laughter. As I followed the sound, it grew with intensity. "What are you guys doing?" I asked. Elf has his base out and we're going to listen. I followed, not sure as to what I'd find. Film at 11:00. ASA stock cars, go karts, movies, special restaurants, or just plain sleep, all seemed to answer the question. Some, they tell me were still driving by moonlight. Me, I'm burnt toast again. I wandered to my room wondering if my assistant/pit tootsie was still up, so I could get a massage.

Sunday dawned too early and too hot, with a meeting at 8:00 a.m. for all A Main drivers. 9:00 a.m. started one round of practice mains, so everyone became used to ten car starts and the other driver's styles.

#### A MAINS

At High Noon the 1/12 Stock class road warriors lined up for the first shoot-out. At the sound of the tone, Jeff "The Iceman" Brown drove away from the pack. By lap

*Top: Winners from the 1/10 Stock class. Bottom: The 1/12 scale Masters winners.*



4, he had a full straight-away lead. Meanwhile, back in the field, Sean Glazer and David Chester were battling. They tried some of that rubbing is racing stuff and Chris Mockerman drove by as they hit the boards. Andy "The Predator" Power was coming from behind as he stalked his prey. Mockerman began pulling the trigger hard and was narrowing the gap. By minute 7, you could have thrown a blanket over the two of them. Disaster



struck when Mockerman and Brink tangled, allowing Power to take second and Chester took over third. To add insult to injury, Mockerman's batteries dumped at 7 1/2 minutes, allowing just enough juice to get over the finish line in fourth place. So it went as afternoon turned to evening, group after group stepped up to take their turn on the stand. Jeff Brown took the checkered flag with Andy Power and David Chester, second and third.

For my money though, the best race of the day was the 1/12 Modified. Jelich was hot this weekend with a full lap lead over second place. Blackstock, Orr, Polivka and LuFaso were all in contention for the win with only 5 seconds between the four, second through fifth. The tone sounded and 10 cars tried

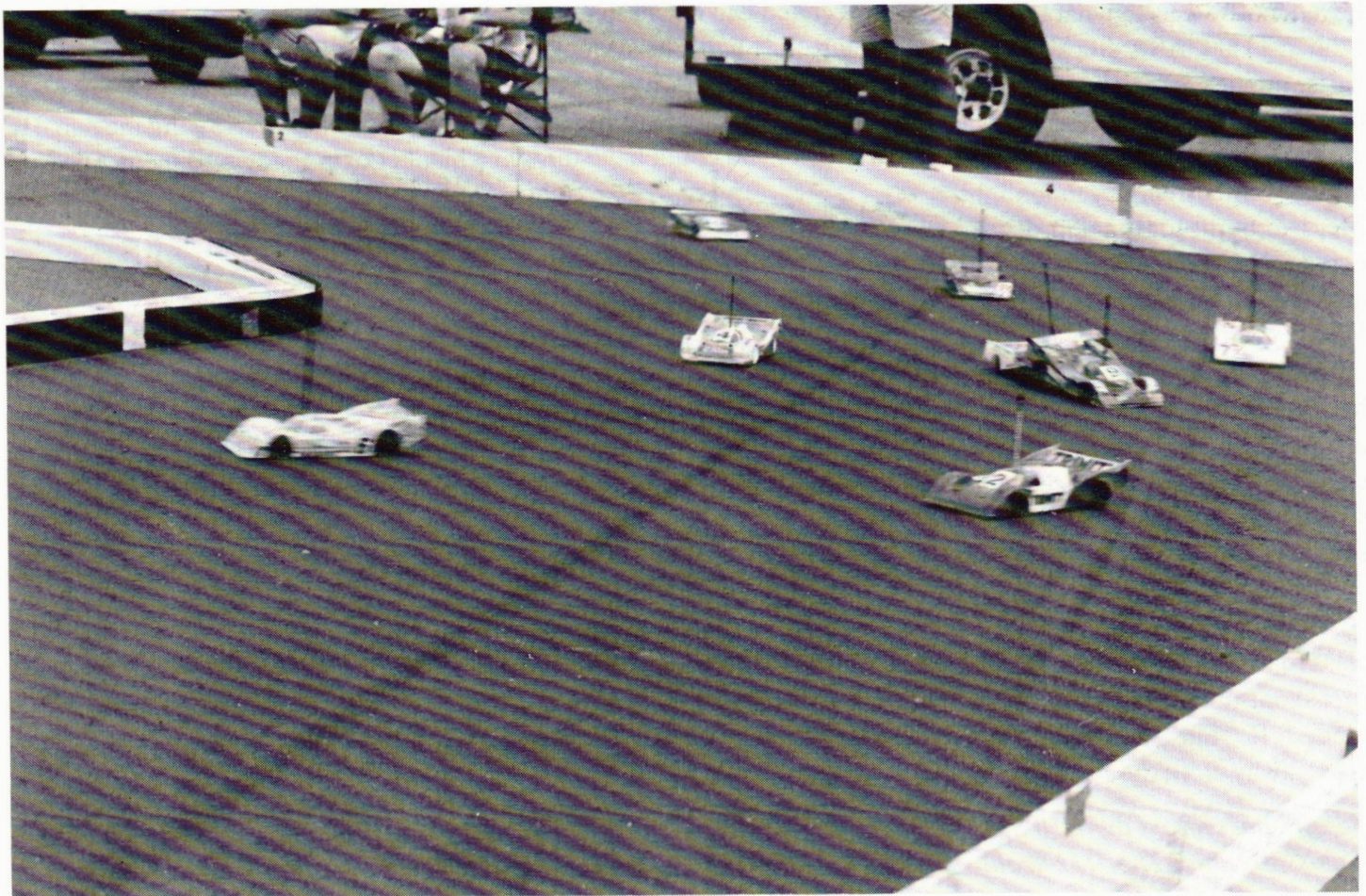
to be first to the corner. Josh Cyrul came from the sixth position to second after two turns. He settled in on Kevin Jelich, who bobbed just a bit, hit a couple of boards and almost got tied up with Chris Doseck, when he spun but young Cyrul was on a roll. Behind him there was a full scale battle going on between Blackstock and Jelich, who were so close at times their cars looked like one long one. When one tried this line, the other guy would try that one. Then came the words "Finish the lap you're on" and it was all history. Josh Cyrul took first with Kevin Jelich and Mike Blackstock second and third, respectively.

So the racing is over, awards have been handed out and I find myself wondering if anything could have made the event better. Cooler

would have been nice, but that's out of our control. Perhaps more entrants and even the possibility of having Formula 1 would have added to the fun.

Formula 1 cars came up quite a bit this weekend. How would you like to be crowned the first ever winner of the F1 class? Yeah!!! And we would race here in Grand Rapids under the lights of the Rivertown Racer's brand new outdoor road course. It could be like our own Saturday Night Thunder, only kinder and gentler. So if you like the idea, give ROAR a call. You might be the First National Champion Formula One Driver.

*As is always the case, the opening moments of any race can be filled with the traditional "Exchanging of the Lexan".*



# New At The Nationals

The caliber of racing that national events demands also dictates the use of every possible advantage that can be found. One of the items that a large percentage of drivers used was the Irrgang Racing Service (IRS) Ultimate Diff Assembly. You saw this product in the June issue of Competition Plus. This system uses o-rings to lock and cushion diff rings of the pultruded Fiberglas/polyester axle. The drivers I talked with told me they saw definite positive effects with this product. I will be doing a long duration test on the 1/10 version in the future. Watch for it.

Another new product that shows great promise is a very changeable chassis from G FORCE RACING. This retrofit system allows a driver to change the actual construct of the car, using an Associated 10LS base for either narrow or wide oval races plus the ability to set-up for road course. G FORCE uses a three point stabilizing system to keep the rear pod in check. All of this in one car and it still comes in underweight by ROAR rules. I hope to do a write up on this product in the near future.

Scale Auto Sports (soon to be Race Tech Motor Sports) has a new front end set-up tool that allows setting of caster, camber and toe-in quickly and more easily than before on most pan cars. Look for it to be available soon.

Probably the most unique and controversial technology at the event is the prototype motor cooler by Jam Racing. Using what you would call refrigeration technology. This unit cools standard R/C motors to temps so low that frost collects. The idea is if the motor has a lower temp to start, it will not get as hot and slow down during a race.

And last, but not least, what would you think of a Formula One style 1/10 R/C race car made in the U.S., manufactured by one of the innovators of R/C chassis, Trinity. Jim "The Chassis Master" Deiter told me that his next project after the Nats would be such a car. The idea is still in the concept stage, but Ernie Provetti (owner of the company) assures me the project is going ahead. I would sure like to try one, Ernie.

So there you have it, all the up-to-date insider information. Remember you got it here first.

- 1/12 STOCK  
A MAIN  
1st - Jeff Brown  
2nd - Andy Power  
3rd - David Chester  
4th - Chris Mockerman  
5th - Sean Glazar  
6th - James Brink  
7th - Mark Adams  
8th - Scott Walter  
9th - Robert VanWagner  
10th - Walter Henderson  
B MAIN  
1st - Mike Detmers  
2nd - Tom Esposito  
3rd - Rusty Whitaker  
4th - Chuck Sommers  
1/12 MASTERS  
A MAIN  
1st - Jerry Cyrul  
2nd - Carl Christy  
3rd - Marc Pritchard  
4th - Dick Clark

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*Tight corners and a decent surface were trademarks of this course for the '94 Nationals.*

- 5th - Tom Tomazevic
- 6th - Steve La Fara
- 7th - George Mockerman
- 8th - Mark Gorney

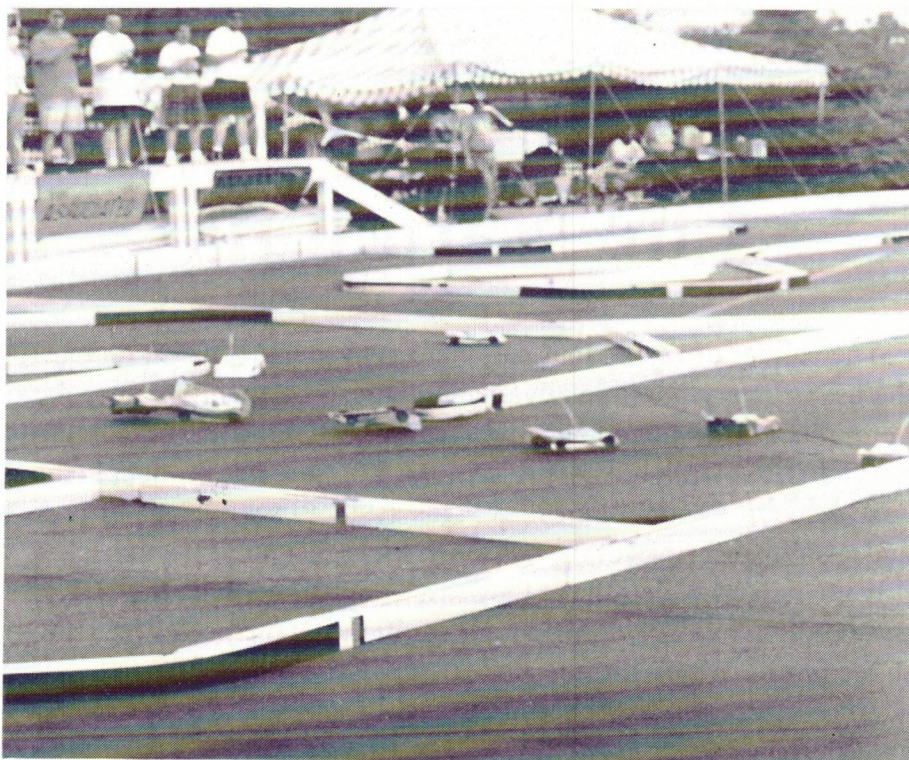
**1/12 MODIFIED**

**A MAIN**

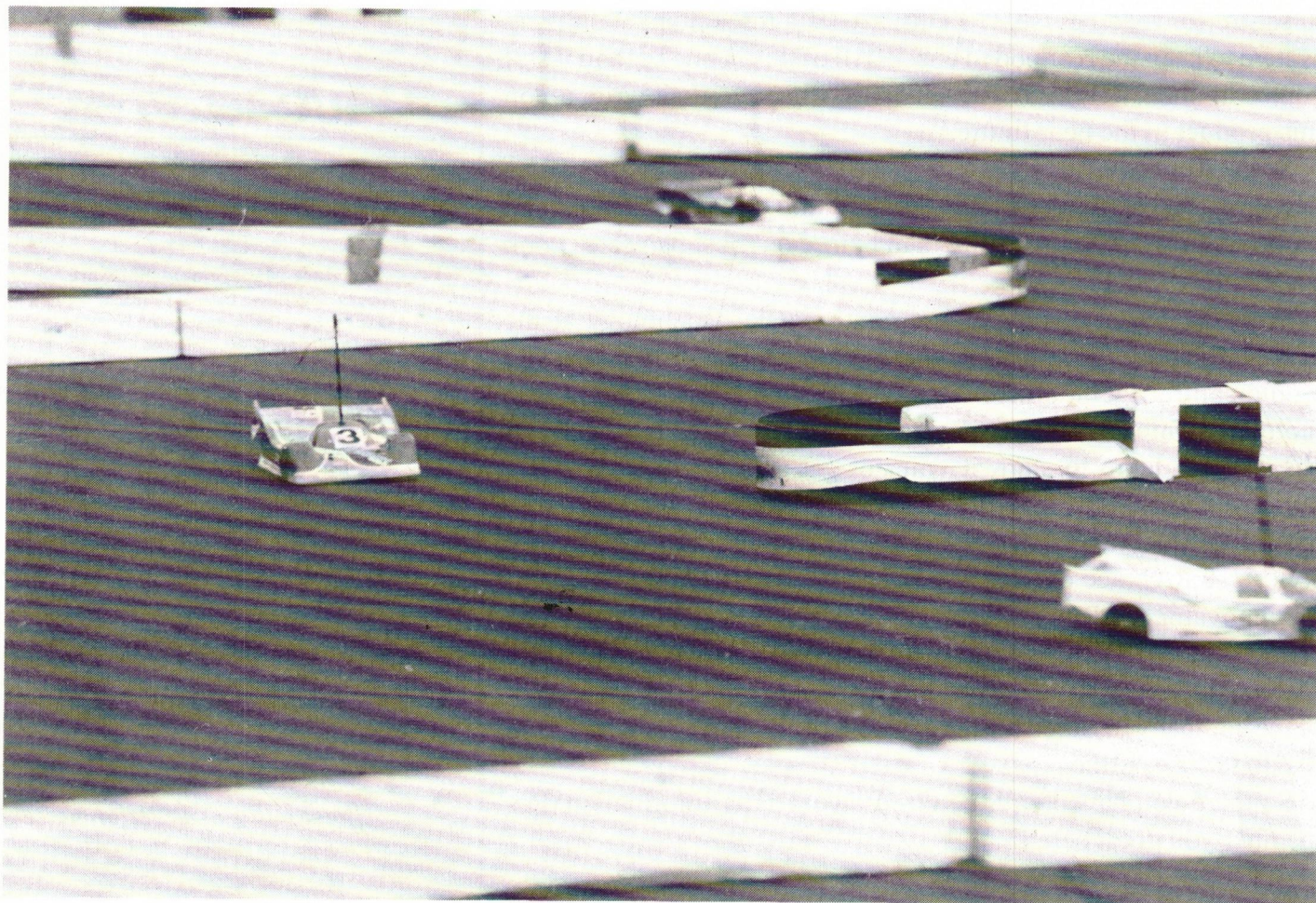
- 1st - Josh Cyrul
- 2nd - Kevin Jelich
- 3rd - Mike Blackstock
- 4th - Jon Orr
- 5th - Sean Cochrane
- 6th - Mike LuFaso
- 7th - Brett Polivka
- 8th - Terry Rott
- 9th - Everett Pietras
- 10th - Chris Doseck

**B MAIN**

- 1st - Bobby Horan
- 2nd - Dave Vera
- 3rd - Rob Press
- 4th - Edwin McTureous



*An overall view of the circuit.*



5th - Steve Koepp  
 6th - Steve Rossi  
 7th - Dan Louis  
 8th - Dan Salvatore  
 9th - Vicky Carrubba  
 1/10th STOCK  
 A MAIN  
 1st - Andy Power  
 2nd - Walter Henderson  
 3rd - Jeff Brown  
 4th - Steve Charles  
 5th - Chris Mockerman  
 6th - David Chester  
 7th - Larry Rice  
 8th - Scott Walter  
 9th - Robert VanWagner  
 10th - Bill Worrel  
 B MAIN  
 1st - Peter Medved  
 2nd - Scott Hill  
 3rd - Jon Beachy  
 4th - Sean Cooper  
 5th - Alan Forro  
 6th - Jim Swift

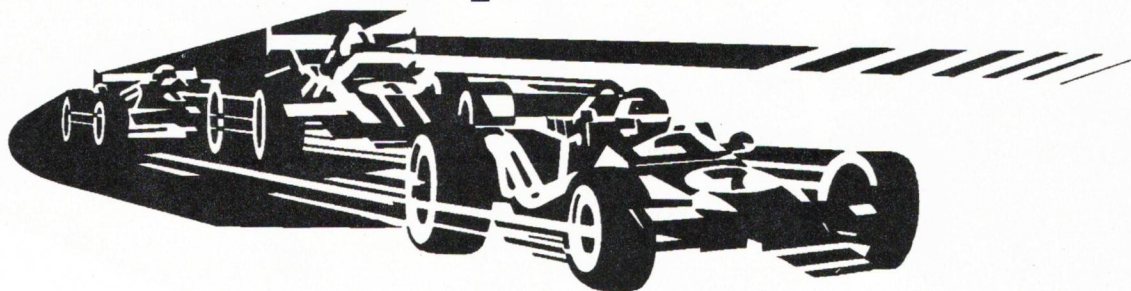
7th - Dan Medved  
 8th - Stephen Sewell  
 9th - Dan Kropko  
 10th - David Usnik  
 1/10th MASTERS  
 A MAIN  
 1st - Carl Christy  
 2nd - Jerry Cyrul  
 3rd - Mark Gorney  
 4th - Steve LaFara  
 5th - Dick Clark  
 6th - Garry Owen  
 7th - Tom Tomazevic  
 8th - Barry Fulcher  
 9th - Marc Pritchard  
 10th - Douglas Voss  
 1/10th MODIFIED  
 A MAIN  
 1st - Mike Blackstock  
 2nd - Mike LuFaso  
 3rd - Kevin Jelich  
 4th - Chris Doseck  
 5th - Josh Cyrul  
 6th - Bobby Horan

7th - Paul Wynn  
 8th - Dave Vera  
 9th - Edwin McTureous  
 10th - Sean Cochran  
 B MAIN  
 1st - Sean Glazar  
 2nd - Brett Polivka  
 3rd - Everett Pietras  
 4th - Terry Rott  
 5th - Rob Press  
 6th - Steve Radecky  
 7th - Jared Scott  
 8th - Dan Louis  
 9th - Jon Orr  
 10th - Scott Burns  
 C MAIN  
 1st - Tom Esposito  
 2nd - Dave Irrgang, Jr.  
 3rd - Gene Parker  
 4th - John Malin  
 5th - Vicky Carrubba  
 6th - Steve Rossi

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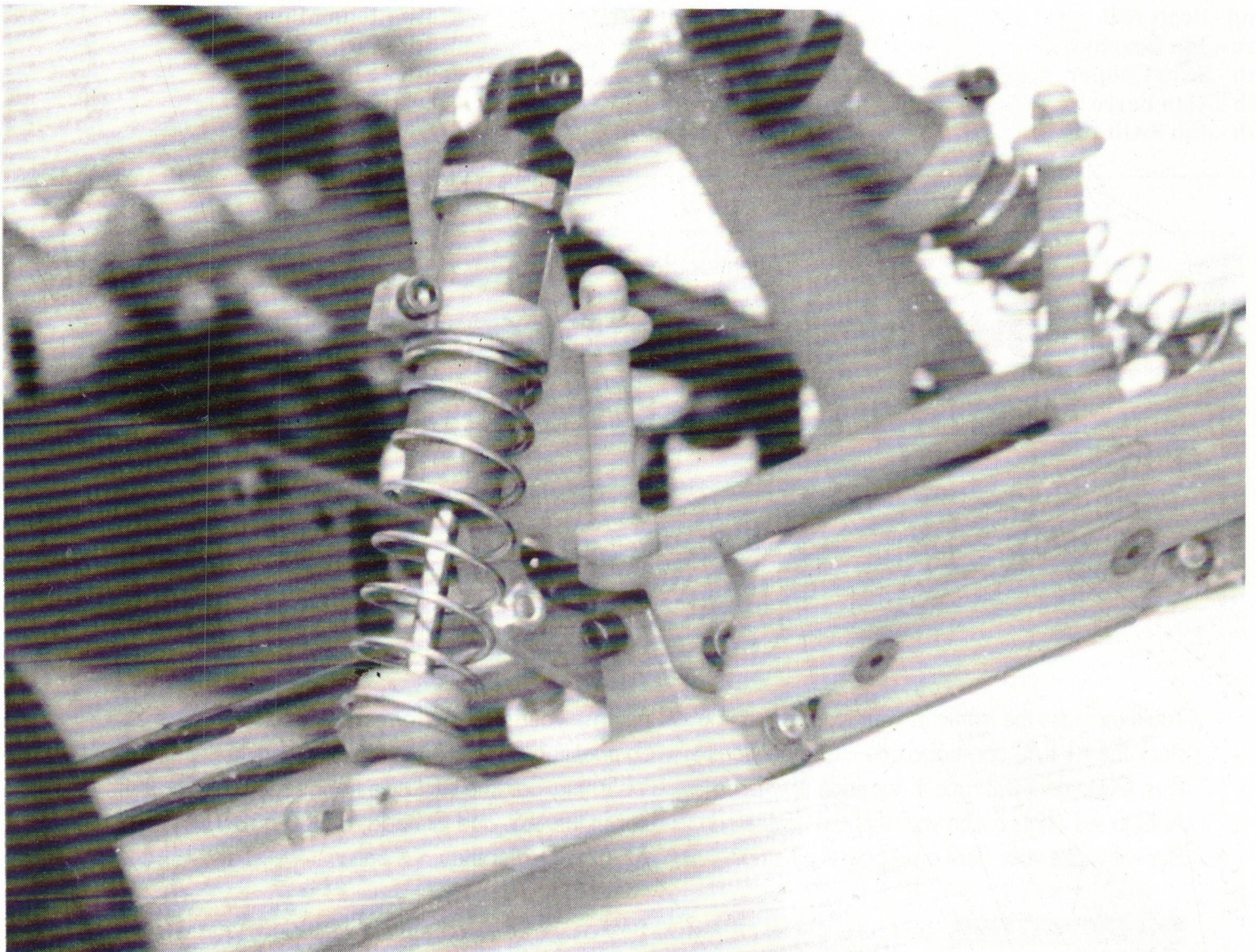
# Associated's RC10 GT

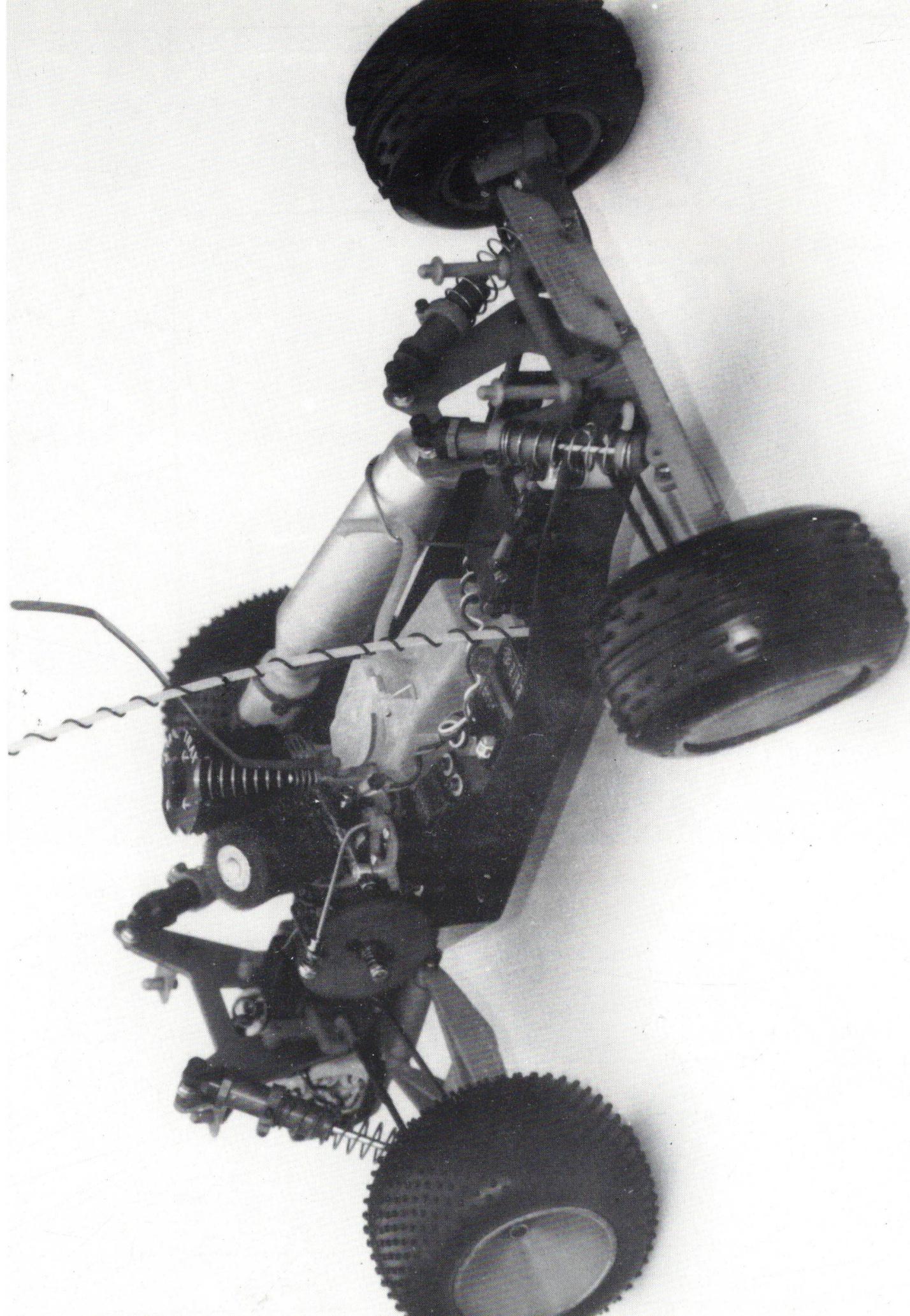
*A 1/10th Scale Gas Truck!*

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By Jack Wright

**M**AN IT'S the Truck we all have been waiting for, a full blown all out purpose built Nitro powered racing machine. Not just another conversion, but a true blue designed racer from the tires up. The RC10 GT is all of that and more, starting with what makes the 10T work so well. The R&D gang at Associated wanted to build a truck that would not only have





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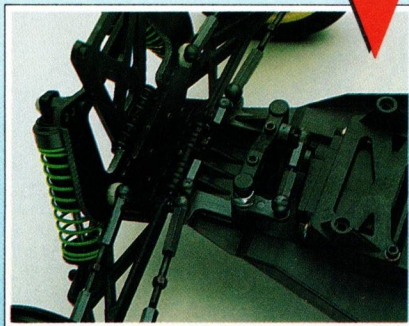


## Featured in the



**Unique Inboard Bearing/Spindle design** features Teflon sealed ball bearings and allows the use of centered kingpins and extra-long suspension arms to provide unequalled stability and handling even on the roughest surfaces.

**Exclusive Swing-Away front end construction** features extreme rigidity and exceptionally easy access to the fully proportional bellcrank steering with helical design servo saver. Computer-optimized Ackerman and bump-steer provide positive steering for consistent performance.



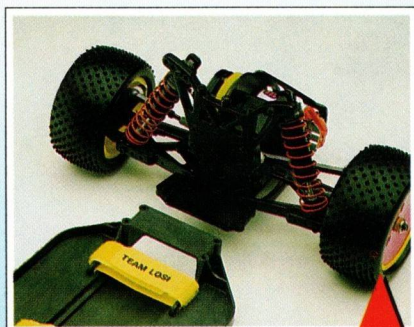
**The Double-X "Laydown" Transmission** includes carbide balls, precision-grooved thrust assembly, hardened and polished diff rings and Teflon sealed outdrive bearings. The low CG design and precise gear profiles provide quicker acceleration and handling. The patented HydraDrive<sup>®</sup> is included for the ultimate in power handling and traction control.

# CAR IN THE WORLDS...



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The easy-access Modular Rear End features wide-based, extra-long and rigid suspension arms, beefy hub carriers, and multi-adjustable bulkhead. Extra-stiff components provide critical suspension alignment with all toe-in in the hub carriers to maintain proper suspension geometry. It's never been easier to access components for quick and convenient adjustments.

We at Team Losi have incorporated the very latest R/C suspension, chassis, and drive train innovations into the new Double-X. The Double-X establishes Team Losi as the leaders in the new era of R/C design... the benchmark all competitors will follow in the years to come.

# TEAM LOSI

*Racing*

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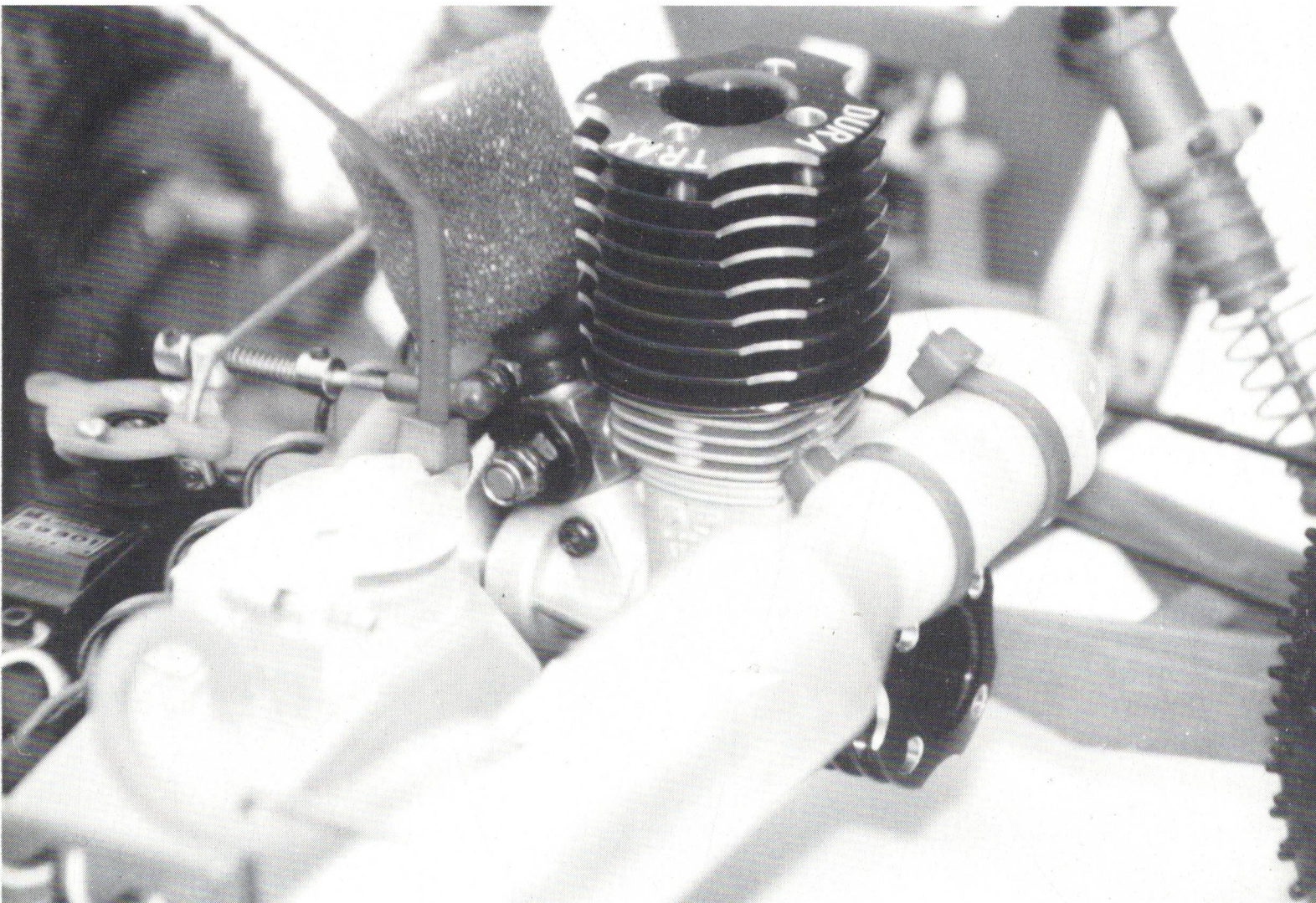
the power of a Nitro breathing engine, but also handle as well as its electric powered counterpart. Yet, didn't want the task of engine set up to be a hindrance to the racer, to overcome this the RC10 GT comes with a VHS video tape that not only shows engine set up, but, also let's you hear what the engine should sound like. Now isn't that trick its like having Cliff Lett standing there telling you his set up tips, of course there is more to this truck than the video.

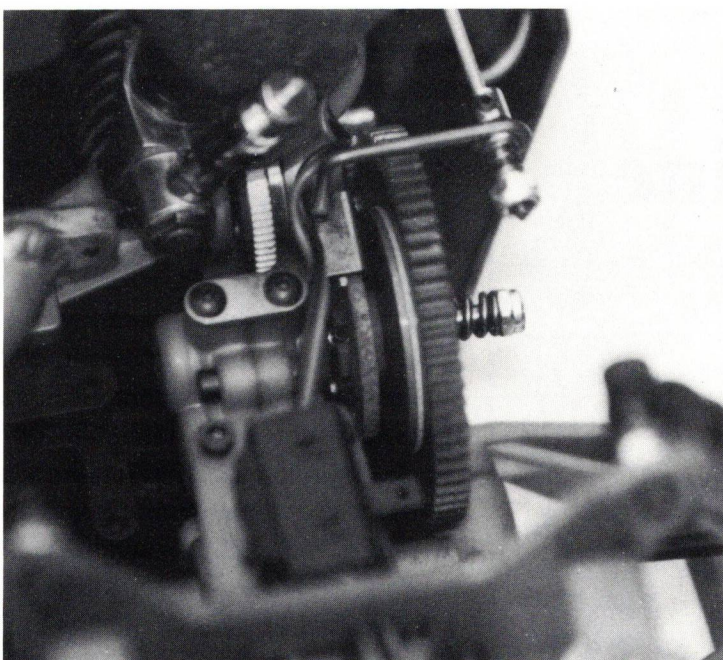
The GT is loaded with everything you could want in a gas truck, with features like a large flip top quick fill fuel cell, tuned pipe and header, duel element air filter, full ball

bearings, and many more features that you don't find on most gas truck kits. As the saying goes "if its not broke, don't fix it," the suspension for the GT is roughly the same as its electric brother, with the identical front suspension as the RC10T Team truck. As for the rear suspension Associated places the rear shocks more centered on the A-arm to accommodate the drivetrain. Due to the awesome powerplants you can install in the GT, Associated re-designed the bullet proof Stealth tranny to handle the ponys a .12 glow engine can dish out. The new diff uses much larger diff rings and gear, of course, with the new diff there had to be a re-designed gearbox. The

new chassis is a work of art with its slim design, that allows the truck to retain all of its strength yet helps keep weight down.

The GT is offered in five versions, a basic Team truck (7060), pull start Team truck (7065), and non-pull start Team truck (7075) these kits are without the engine. For those who want the engine included there are the pull and non-pull start Team kits with Dynamite's new TNT .12 racing glow motor (7066 & 7076). For this article, I chose to *The linkage system on the GT is rather simple, note the bend in the braking linkage. That is so the throttle doesn't get hung up with the brake.*





use the non-pull start Team GT kit without the engine, and opted for an O.S CZ-R .12 racing engine. To complete your truck you will need a 2ch radio system, a glow starter, fuel, a NiCad receiver pack and in my case a hand held electric starter or starter box to start the engine.

### GEE! NO 10GT!

As always with a new kit, I tend to get ahead of myself, but once I get a hold of my senses I picked up the manual and read it before I even thought about building anything. As I mentioned before the GT comes with its own how to video on engine tuning, but the tape has

more information than I thought. It also covers engine installation and throttle and brake settings, needless to say watch the tape! As always Associated put together a great set of manuals, yes that's right manuals. Besides the truck assembly manual there is also a separate manual just for engine installation, so there is no excuse for building this truck wrong as you have all the tools needed to do it right.

To get things started, Associated starts off with the front suspension. With the instructions that are included in this kit I won't go into a long drawn out explanation on building the GT, but I will say be sure to trim all of the flashing from all of the molded nylon parts as this will make for not only easier assembly, but also will make for a smoother working suspension as well. In building my GT I did boil dye my parts pink using Litespeed Hot Pink Dylon dye, the benefits of dyeing the parts is two fold. First of all it looks trick secondly boiling the nylon parts actually strengthens them and reduces their chances of breakage. Try it you might like it, besides who likes drab white nylon anyway.

Once you have the front suspension completed check and see that the A-arms have free movement, lift each arm up and then let them drop. The arm should be able to go down under its own weight, if not check to see if the flashing has been removed from either the arm or suspension bulkhead. At this time, install the front end

*Braking on the GT is very smooth and precise, no doubt due to the well designed disc braking system that is mounted to the tranny.*

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# The O.S CZ-R .12 Engine

*The CZ-R .12 is the big daddy of 1/10th scale R/C, the CZ is probably the most widely used in competition for a good reason, durability. Unlike airplanes, R/C cars and trucks put much greater demands on engines, and engines like the CZ-R are ideal for the riggers of off-road and on-road racing. Over the years, the O.S .12 has seen many changes, with the advent of better carb and head design. For 10GT I used many of the hop ups available for the CZ-R, like the Duratrax Stage II heatsink head and finned back plate for increased horsepower by lowering the engines temperature. Now the stock 2BK carburetor is tops, but Duratrax offers a Slide Carb kit that offers a smoother throttle response and ideal for oval racing.*

*Of course there is one engine that has even more horsepower than the CZ-R engine, that is the new O.S CZ-Z .12 engine. At the time I started this article the Z motor (as well have begun to call it) was not available. But since then I have had the privilege of driving a friend's 10GT with the Z motor on board, man talk about fast. The Z offers a better breathing ported sleeve and head design, to say the least the Z motor will soon be the king of the hill with no doubt.*

to the chassis nose plate and then mount the assembly to the chassis. Next assemble the spring loaded servo saver system and mount it to the chassis. At this point assemble and install the steering tie-rods to

the front suspension. Here once again Associated includes a full size diagram for the turnbuckles to make the job even easier. Now just install the front bumper and you're ready to tackle the new ATC Stealth

tranny next.

## TRANSFORMATION

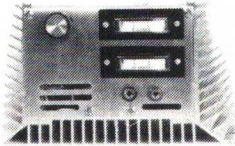
The new version of the Stealth transmission features a 2.60 to 1 gear ratio and a larger diff to handle the power of a Nitro burning engine. Be sure you use only the supplied Stealth diff lube on the diff rings and diff balls, the black grease is to be used only on the thrust ball assembly. Once you have the diff assembled, install all of the ball bearings into the gearbox housing. Now add the diff, center gear, and drive gear to the housing half, it doesn't matter which half of the gearbox you start with. One task I rather not do is install the roll pin that runs through the drive gear on the outside of the gearbox, come to think of it, installing any type of roll pin is a pain. To solve this the folks at Thorp Manufacturing offer a roll pin installation tool that is designed for installing roll pins into the drive gear and rear axle shafts on the RC10. Needless to say, this tool makes pin installation a snap, with the pin on board, the next step is the braking system.

The GT used a disk braking system that is mounted right behind the slipper clutch, braking is controlled

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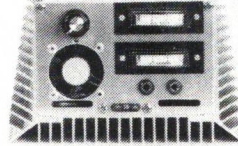
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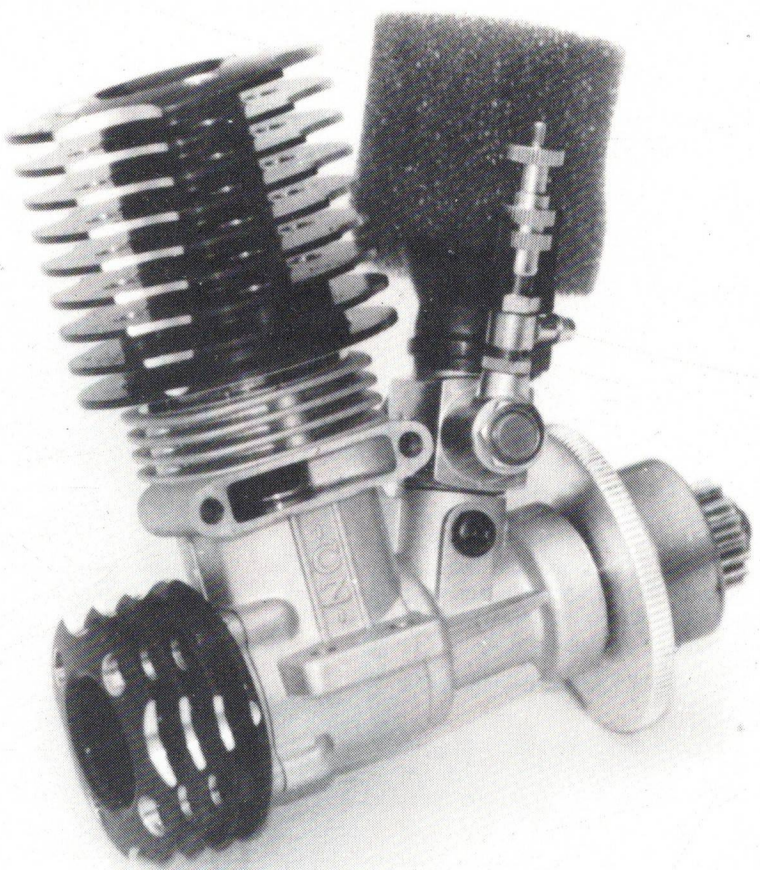
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by a simple steel shoe and caliper assembly. With this design braking is much stronger and controlled than using a shoe that rides against the clutch bell. Before you can install the braking hardware first we install the slipper clutch, Associated uses the same first rate slipper that is found in their other racing kits. Assembling this unit is very simple as the directions show you the way. At this time don't be concerned with adjusting the slipper as you will need to do this at the track. At this point install the gearbox to the chassis along with the front and rear engine mounts, when you see the

*The CZ-R with the Duratrax Stage II head and bolt on backplate heat sink.*



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9425 \$32.00



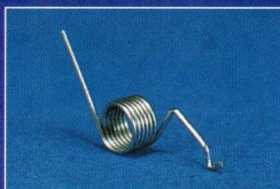
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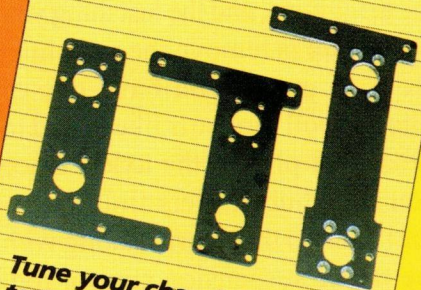
New PROCAR Stock Class Motor  
Trinity is pleased to support the new stock PROCAR racing class with our own stock motor that meets all PROCAR class specifications. This 21 turn, 21 awg stock motor has 12 degrees of timing with a locked commutator. This is the hand-out motor of choice for most clubs. Clubs should contact Rick at Trinity for special pricing.  
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## T-Bar kit for Revolver 12



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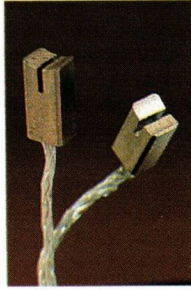
## Pro-Racer Silicone Shock Oil

Unlike most shock oils, the weight on ours won't vary with temperature so your chassis set-up won't change. Available in all half-weights (\$2.99) plus 80, 90, 100 weights for smooth tracks, 1/10 Super Speedway or 1/8 gas on-road or buggies.

RC7680	80 wgt	\$3.45
RC7690	90 wgt	\$3.45
RC7100	100 wgt	\$3.45

From The Desk of: Joel "Magic" Johnson®

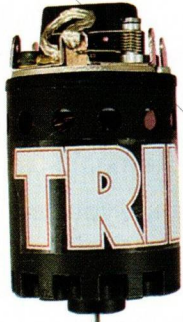
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RC1005	8 Turn	\$275.00
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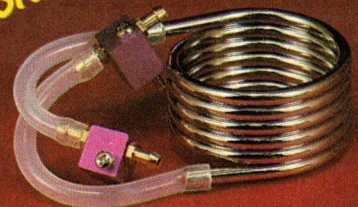


6 cell, 4400 mAh Rechargeable pack made with Sanyo cells

This pack gives the Clod Buster much more runtime than standard 6 cell packs. Connector between packs makes installation much easier

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 O.S CZ-R .12 - \$159.99  
 Duratrax Stage II head - \$45.99  
 Duratrax back plate heatsink - \$19.99  
 Futaba 2PD FM w/9301 servos - \$349.00  
 Pro-Line XTR 65&90's - \$19.99 pr.  
 Associated's Med. Foam inserts - \$2.00 pr.

## Manufacturers Mentioned in This Article

*Associated Electrics*  
 3585 Cadillac Ave.  
 Costa Mesa, CA 92626

*Futaba*  
 4 Studebaker  
 Irvine, CA 92718

*Litespeed Racing*  
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 Spokane, WA 99202

*Duratrax Dist. by Horizon  
 Hobby Dist.*  
 P.O. Box 6029  
 Champaign, IL 61821

*O.S Engines Dist. by Great  
 Planes*  
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*Thorp Manufacturing*  
 4054 E. Mission Blvd  
 Pomona, CA 91766

mounts, the thought put into the GT is obvious. The engine mounts are fully adjustable to fit a wide range of gear ratios and engines, a must for competitive racing.

## BRINGING UP THE REAR (SUSPENSION THAT IS)

At the rear of the GT you see a few mods that had to be made to accommodate the Nitro engine, like the re-designed rear bulkhead and suspension arm blocks. The same A-arms found on the 10T are used for the GT as well as the axle carriers. Pay close attention to the number of shims that should be used on the universal shafts. If not, you will find the shafts won't fit properly in the drive cups, and the last thing you want to do is remove the roll pin in the axle unless you have one of Thorp's roll pin tools like I used to install the pins in the axles. Once you have hub carriers finished install them to the A-arms along with the upper suspension control rod. Now with the chassis in it's final stages of assembly we'll move one to the final step in building the chassis, shock assembly.

## NOT SO SHOCKING

It's no surprise here that the GT comes outfitted with Associated's Hard Anodized oil filled shocks on all fours, and these large bore performance shocks can tame the roughest tracks yet are easy to build. Ah yes, the days of fighting with C-rings are long gone, you can build these shocks in the time it takes to assemble just one of the old style shocks. As for starting setup, I chose to use the recommended set up in the book, as these folks know a bit more than we do on how their truck performs. With this basic set up you should be in the ball park.

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## SITTING IN FRONT OF THE TUBE

The moment we all have been waiting for, time to drop in our Nitro burning power plant that will certainly tear up the track. Before tackling the installation of the engine of your choice, watch the video tape instructions that are included with the GT. Besides having not only the set up tips for the motor, the tape also shows you the proper way to install the engine and adjust the linkage for throttle and brake. The beauty of having it on tape as well as in print, is you not only see how it's done, but you can hear how a properly tuned motor should sound. If you skip the tape you find yourself spending more time wrenching on your engine that it would have taken to watch the tape. As I had mentioned the GT is offered with or without a Dynamite .12 engine, and since the kit I chose

for this article did not include the engine I opted for an O.S CZ-R .12 engine with optional Duratrax Stage II head with a Duratrax back plate heatsink, anything you can do to keep one of these baby's cool just adds up to more horsepower.

Now if you're using any engine other than a Dynamite, you will need to cut the crankshaft for the flywheel and clutch assembly to fit. Never fear, Associated covers this step very well in both the tape in the manual, and they also included the spacer nut needed to cut the crank to the proper length. Once you're past that, it's a snap to install the engine. Now with the motor on board, be sure you have the proper amount of play between the spur gear and clutch bell, you will want a slight amount of play or gear damage will occur.

One step in the assembly manual for the engine may be a bit confus-

ing, that is in step 279, the book shows that you install the header onto the motor after it is in the truck. Well that's a bit tough since the fuel tank is in the way, to make the job easier, mount the header to the engine before you mount it into the truck. With the engine in the truck, the next step you will encounter is installing the radio gear.

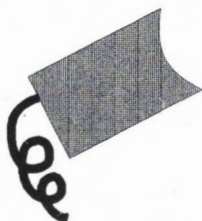
## THE END IS NEAR, LET'S INSTALL THE RADIO GEAR

As we wind up the assembly of the GT with the installation of the throttle and brake linkage, the kit is supplied with a trick servo horn on your throttle servo, the only trick to setting up the linkage is bending the rod that controls the braking action. Of course, Associated includes a diagram to match up the linkage so you know it is bent at the right angle. It's wise to use a servo with at least 40 ounces of torque for the throttle and steering, for this article I chose

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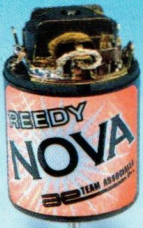
**BO THE**  
**HEMITH**

TRIPLE SLOTTED, 5.0 MAGNETS, SILVER BRUSHES, BROKEN IN AND TESTED. NO DOUBT, THE FASTEST ROAR LEGAL RACE MOTOR AVAILABLE PERIOD! GIVE US A CALL IF YOU HAVE ANY QUESTIONS ON THIS ALL NEW EPIC BASED ROCKET SHIP.

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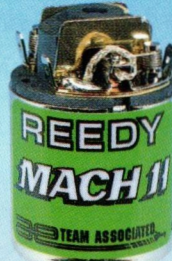
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#556, Mach I #557, Mach II

## Sonic Series Modifieds

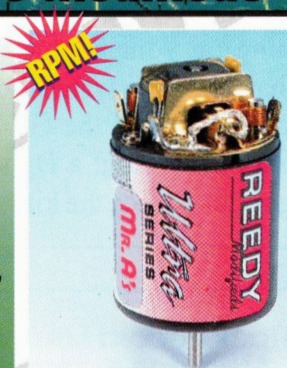
Newest in the line of Reedy motors is the Sonic, with Turbo Cooling features adding to the life and performance of the motor. A new can/magnet setup combined with an all-new large commutator and lay-down brush system provides the torque and power needed for today's racing. Hand wound and precision assembled.



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## Ultra Series Modifieds

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#737, Competition Off Road Brush  
#738, Stock Motor Brush

## Sonic Series Brushes

For use in motors with lay-down brush systems.



#760, Competition Off Road  
#761, Competition On Road and Stock Motor Brush  
#762, Silver On Road Brush

## Reedy Modifieds

Reedy Modifieds technology is responsible for winning 12 IFMAR World Championships, more Championships than all the others combined.

**REEDY**  
*Modifieds*

to use Futaba's Magnum PD2 FM radio system along with a pair of 9301 HI torque servos. Another interesting set up on the GT is the receiver mounting plate, it allows you to mount the receiver to the mount with a tie wrap and by just removing two screws the plate comes right out of the chassis for easy clean up. To power the radio gear, I used a five cell receiver pack made up of AA Nicads, it's best to use five cells as the servos will respond much quicker over the standard four. Mounting the receiver pack is no big trick as there is a mount provided at the rear of the truck, mounting the pack at the rear of the truck helps to give the GT the same balance as its electric counterpart. At this point we'll finish up the assembly of the GT with mounting the supplied Pro-Line tires on the dish style one piece wheels and paint and trim the hot looking stadium truck body. I have found at my local track the Pro-Line XTR compound tires are the hot ticket, so I replaced the tires that are supplied in the kit with a set of XTR 65's up front and XTR 90's in the rear along with Associated's medium foam inserts all the way around.

As I had mentioned before, the GT is supposed to handle as well as its electric counterpart using the same chassis set-up. So to see whether this was true I used the same identical spring settings and suspension angles that make my truck work so well.

And with everything together, it was time to fill the tank and hit the track.

### JUST FUEL'N AROUND

As spring is here it was time to head out to the Off Road Track at

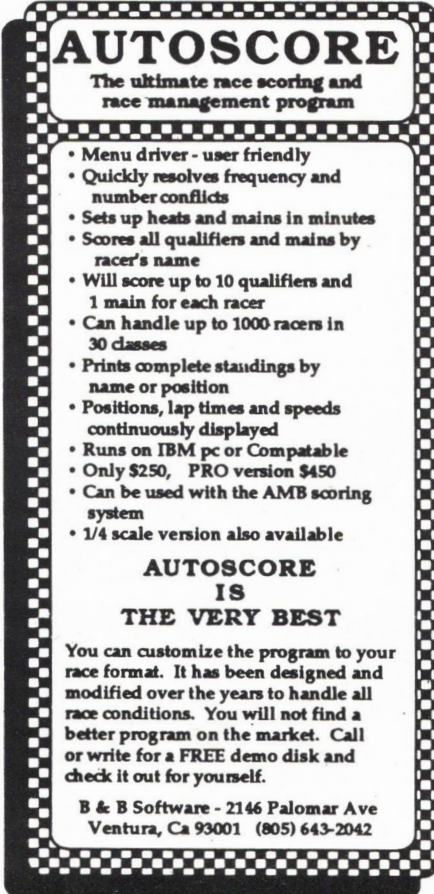
Hobby Park in Winston-Salem, NC, the track at Hobby Park is rather large and is just the ticket for gas off road trucks. Now before I hit the track, I did properly break the engine in by running the fuel mixture on the rich side for a few tanks. The reason for doing this is to allow all of the engine's parts to seat themselves, and the right setting helps to remove the small amount of soft metal and keep the engine cool during the break-in process. From here I adjusted the engine settings as shown in the video, and adjusted the slipper clutch for the hard packed clay at Hobby Park.

So I topped off the tank with 20% Blue Thunder fuel and hit the track. To my surprise, they were right, the GT did drive just like my 10T. The GT unlike other gas powered off road trucks showed no sign of understeer, in fact the truck almost had too much steering for my driving style. As far as the jumps went, I did make adjustments to the suspension to reduce the amount of steering I simply used the same set up that is on my 10T. The truck's speed is nothing short of ballistic, but when the truck was on the track with electrics I found on the straights the truck ruled as for the rest of the track the trucks were equal. One point I would like to make, that most of the time I used less than half of the truck's horsepower due to the lack of traction, so in ideal track conditions an electric doesn't have a chance. After a full day of running, and I mean running about two gallons of fuel through the O.S .12 engine. The truck held up very well, and never wavered a bit.

### OVERVIEW

From what I see the Associated

10GT is tops in its field, and with all of the goodies that are included in the kit the price tag is well worth it. As for the O.S engine it was put under a real workout and just kept on kicking, even after running the engine all day long the .12 showed almost no wear at all. But if you keep the engine in good shape and don't lean it out, the engine will last quite some time. The Futaba Magnum FM radio system is ideal for those who want the reliability of FM without the cost of PCM systems, and the 9301 servos provide quick response and are quite durable for gas racing. So if you have the dilemma of deciding to enter the world of Nitro racing, but are concerned with engine set-ups and trying to drive a whole new animal. You will be pleasantly surprised with the 10GT.



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# Dynamite's APEX 10

*By Jack Wright*

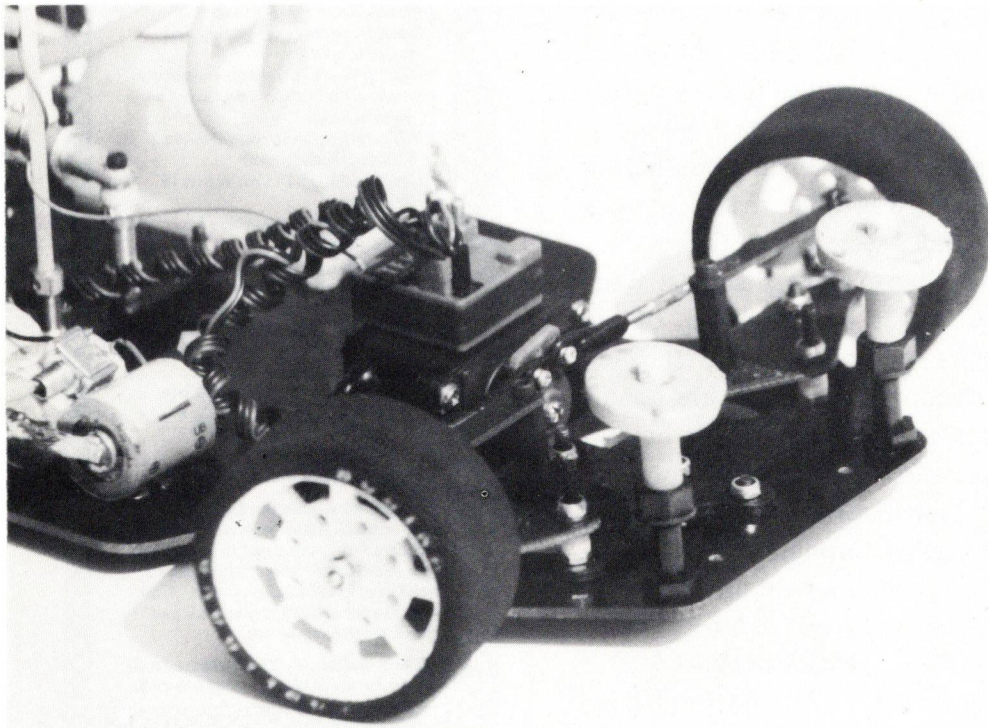
**AS NITRO POWERED** off road racers have taken off in popularity I knew it wouldn't be long before we saw Nitro powered 1/10th scale Oval and Road Course rac-

ers, the folks at Dynamite have done just that with their new APEX 10 pan car. The APEX 10 is designed to race on either the oval or as a road racer, but the APEX's simple

to design appears the first time racer as well as the hard core crowd. Many of you will recognize the chassis design on the APEX, Horizon (dist. of the Dynamite line) wanted a competitive, durable, and economical car, so their R&D department along with BoLink's R&D man, Rick Jordan went to work on building the APEX. With this in mind you can just imagine how versatile this car is, all of the upgrades that BoLink offers on their line of cars will fit the APEX.

The APEX features a strong Fiberglas chassis, a mono shock t-plate rear suspension, silicone side dampner, a rear suspension mounted throttle servo plate, so throttle range is not affected by suspension movement, and best of it all a Dynamite

*BoLink's independent front suspension kit is a must for the oval.*



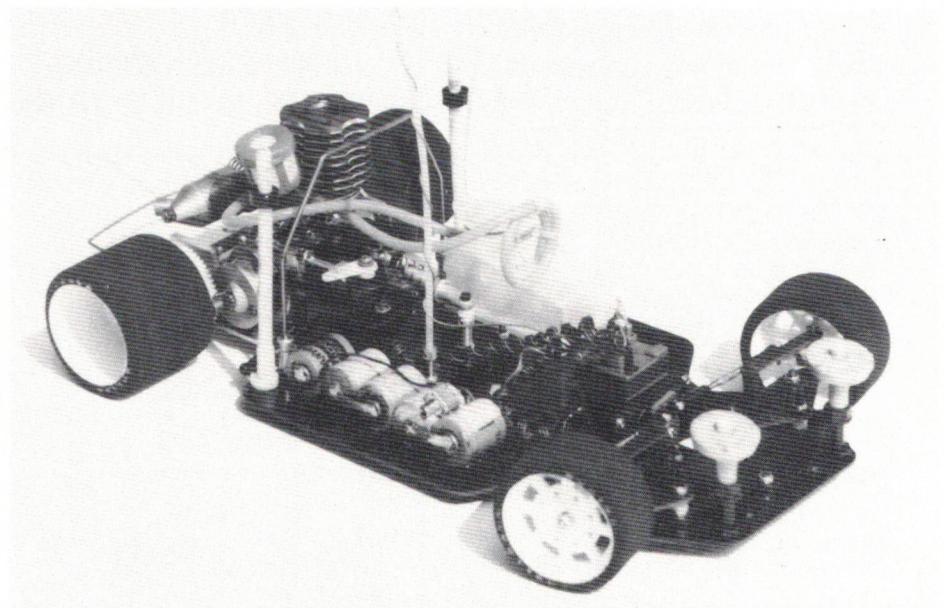
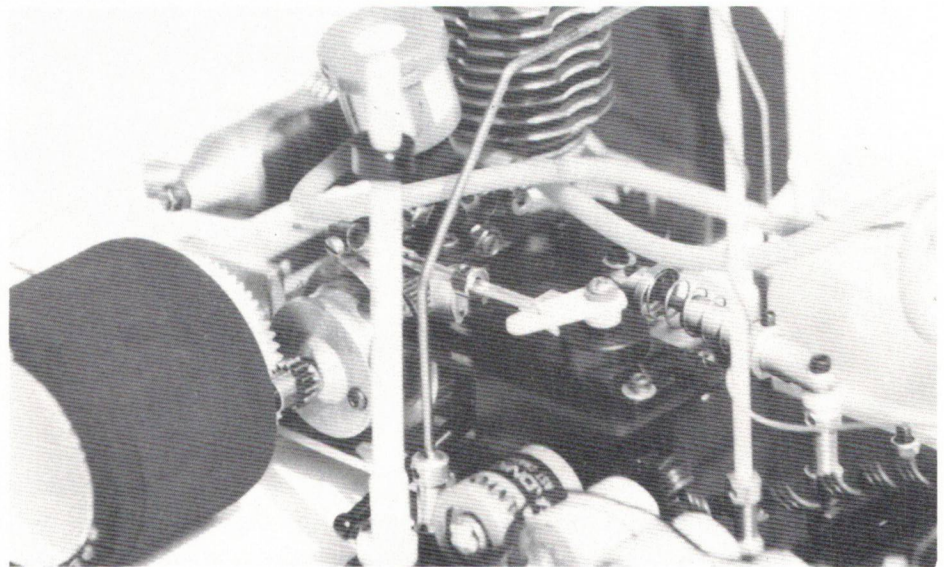
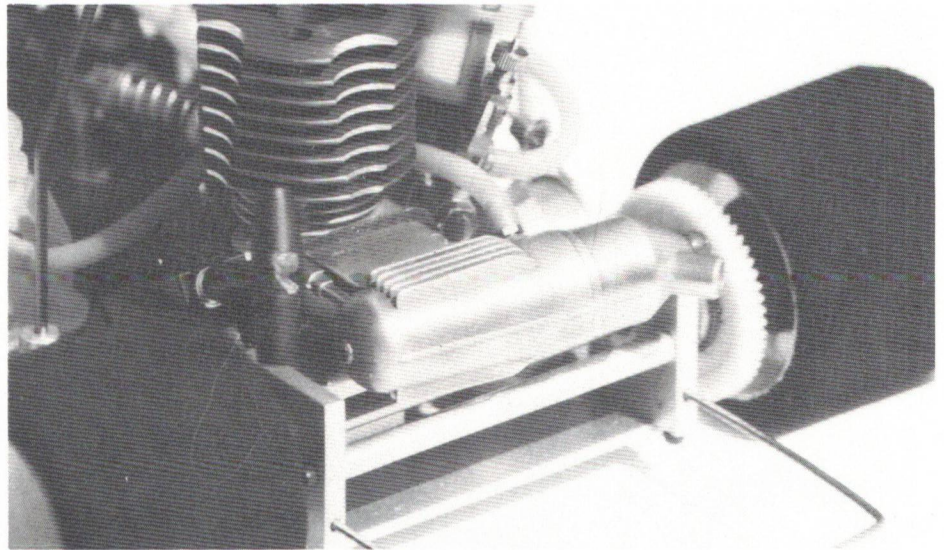
.12 racing engine. Other features include a clutch bell design that accepts standard 48 pinion gears, and the drive axle has a standard ball differential that uses standard spur gears for quick and easy gear changes. The APEX comes in three versions, with pull start engine, without pull start engine, and just a chassis kit allowing you to use other engines.

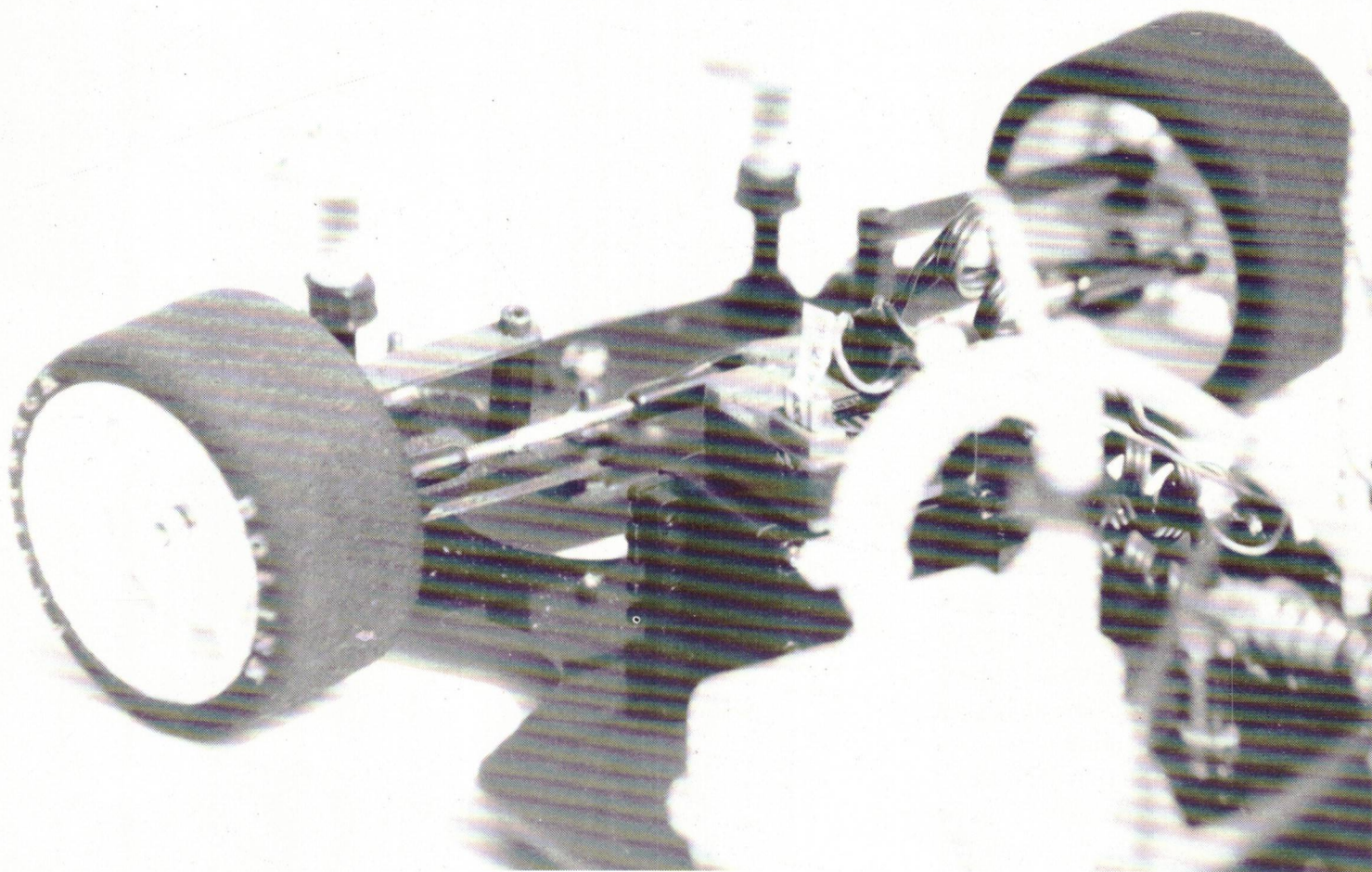
To build your APEX 10 you will need the following tools. Of course, a two channel radio system with servos that at least have 44 ozs. of torque, R/C car fuel, a glow starter, a oval or road racing body, and an electric starter motor (unless you use the pull start kit). The APEX comes in the usual nicely packaged box, with all of its parts neatly packed in the order of their use in assembly, so enough of the jabbering and let's build this think.

### CHASSIS ACTION

Building the APEX is pretty simple as far as the main chassis goes, the first step is to mount the front axle to the chassis plate. Follow this up with the king pins and nylon steering blocks and axles, now when tightening the lock nuts on the axle you will notice the axle will lean toward the rear of the car. This is how you adjust the cars caster. You will want to put at least 2 degrees of caster in the APEX, doing so will give the car more predictable steering in high speed cor-

*Top and middle: The heart of the Apex is the simple engine mounting plate and rear pod. By just removing four screws you can have the entire rear end off the car for easy engine maintenance. Bottom: The Apex in its finished form.*





ners. The next step is to assemble the rear T-plate and radio tray, the only thing to watch for is the suspension balls. The screws that hold the balls in place are known to back out due to vibration, to prevent this put a small amount of Super Glue

or CA on the threads of the screws right before you install them. With the main chassis assembled it's time to move on to the rear pod and engine assembly.

### GENTLEMEN START BUILDING YOUR ENGINES

In assembling the rear motor pod, you will need to use threadlock compound on all of your metal assemblies. With exception to the motor mounts, as they must be free to adjust for change in gear ratios. First install the axle mounts, followed by the rear brace and brass brake band. At this point, set aside the motor pod, and get together the parts needed for assembling the engine's clutch assembly. The clutch for the APEX is rather simple with one exception, I found after I had assembled the clutch bell there was a bit too much slop in this set up. I followed the instructions on what to do if there was any slop, but, to no avail, so I gave the folks at Dynamite a call. They told me to

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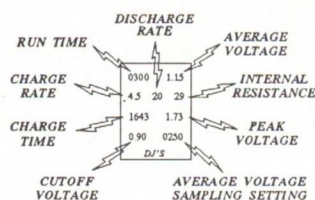
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replace the unflanged ball bearing that is used in the clutch bell with a flanged ball bearing, also I was told that this change would be made in future kits. The reason I was so concerned with the slop, was that it was so severe that it would surely destroy a spur gear and hurt the car's performance. One other thing in step eight on page 11, you will find the flywheel pins are already installed, and don't forget all of these parts, including the clutch shaft, need to be threadlocked.

Now go ahead and install the axle ride height adapters and the oil lite axle bushings as well. In the case of my kit, I decided to add a set of ball bearings. Since this kit uses many of the same parts as BoLink kits, I picked up a ball bearing kit for the BoLink Sport part #BL 5451. Whether you're racing or just playing around, ball bearings will save you money in the long run, and they put more speed in the car through less friction. Now go ahead and install the engine to the motor plate, at this time don't completely tighten the motor mounts.

#### WHAT'S THE DIFFERENCE

With the motor installation complete, we'll focus on the rear axle assembly. The APEX features a

# About The APEX 10

*APEX 10 w/TNT .12 engine \$299.95*

*Airtronics 94152 servo \$139.95 each*

*Tekin Micro receiver \$74.00*

*BoLink T-Bird and Mustang Bodies \$18.99 each*

*BoLink Delrin Hubs \$7.50 each*

*BoLink independent front end kit \$37.95*

### Manufacturers mentioned in this article

*Dynamite Dist. by Horizon*

*Hobby Dist.*

*P.O. Box 6029*

*Champaign, IL 61821*

*BoLink R/C Cars*

*420 Hosea Rd.*

*Lawrenceville, GA 30245*

*Airtronics*

*11 Autry*

*Irvine, CA 92718*

*Leake Racing Products, Dist.*

*by Hobby Works*

*5800 Yadkinville Rd.*

*Pfafftown, NC 27106*

*TRC Racing*

*Tires*

*P.O. Box 1058*

*Albermantle, NC 28001*

*Tekin Electronics*

*970 Calle Negocio*

*San Clemente, CA 92672*

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steel axle with a ball diff, the hubs that are included are made of nylon and if you are not careful they're easy to strip out when tightened. Since I'm not very careful, I opted to replace the stock hubs with a set of BoLink's delrin racing hubs, part #BL 5801, in order to use these hubs you will need a set of 1/4 X 3/8 flanged ball bearings (part #BL 5453) for the diff side hub to work on the axle. As for the rest of the assembly, I recommend staying with the stock steel axle and 48 pitch spur gear, even for racing the stock parts are much stronger. With gas cars the drive train is dealing with more stress due to the power of the nitro engines, so the last thing you need is a weak link here. With the diff assembled and working smoothly, install it in the pod, now go ahead and use the stock pinion supplied in the kit for a starting point. Then align the pinion and the spur so you only have a slight amount of play between the gears. BoLink has something for those of you that don't have a big selection of 48 pitch pinions, the new BoLink Gear Rack, part #BL 5540. The Gear Rack has 19 of the most popular pinions you would need for the

APEX 10, and if you already have the pinions, BoLink offers the rack alone, part #BL 5541.

### BRAKES, WHAT'S THAT

You remember that little strip of brass that was mounted to the motor pod, well now bend the strip so it fits the curve of the clutch bell. Once that has been done, remove the strip otherwise known as the brake band, and glue the cork brake lining to the band with some contact cement. Don't use CA or Super Glue, as it dries very brittle and the lining will just fall off. To finish off the assembly of the chassis, install the throttle spacer to the servo plate then mount the servo plate and plate support to the engine and motor mount with the supplied spacers. Next attach the engine assembly to the T plate with the supplied screws, and be sure to use threadlock on this assembly or you'll be chasing the engine around the track. Also at this time go ahead and install the muffler to the engine, you will need to dis-assemble the muffler and remove the spacer so the muffler will fit.

Once you have the motor pod in place the next step is to assemble and mount the oil filled shock to the

chassis and servo tray. Follow this up with the throttle bellcrank assembly, and roll over bar. Now, if you plan to use a NASCAR style body, you will need to cut about 2 inches off of the roll bar in order for the body to fit properly. The last step in building the chassis is mounting the body posts, and the silicone damper to the chassis.

### RADIO WAVES

Now it's on to radio installation, to handle the steering and throttle duties I chose Airtronics 94152 ball bearing metal geared Hi torque servos. And to get the commands from the XL2P transmitter, a Tekin mini-receiver was in order. The APEX 10 comes with all of the necessary linkages for throttle and brake, as well as a set of aluminum turnbuckles for the steering. With the clear instructions supplied, installing and adjusting the linkage is no trouble at all. To power the radio system I used a home made five cell 600 Mah battery pack, now Horizon offers a pre-assembled five cell pack in their new Dynamite line. I strongly recommend using five cells, as this will give you faster and stronger servo action.

At this point the only thing left to do is install the fuel tank, fuel lines, and paint and mount the body of your choosing. The design of the Apex allows mounting of the fuel tank on either side of the chassis, as for the fuel line it's best to keep the incoming fuel line as short as possible. Now the pressure side from the muffler should be at least 18 inches long, just coil up the excess line and hold it together with a tie wrap. Now I plan to race my APEX on both oval and road courses, so I chose to use BoLink's

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wide T-Bird for oval and BoLink's GTO Mustang GT for road racing. The stock tires that are supplied with the kit will work just fine on a road course, but for oval you will want to use a cap tire.

### JUST FLYIN'

After braking in the engine I set out to take the APEX 10 on it's maiden voyage at the local parking lot road course races. With everything broke in and adjusted, I filled the tank with Leake Racing Products 20% racing fuel and hit the track. Jack Leake is one of R/C's premier engine wizards, and his fuel is some of the cleanest burning fuel you'll ever find. And the power it produces is unbelievable, after running nearly a gallon of this stuff the inside of my engine looked nearly new, nuff said! Back at the track the APEX handled quite well, although tire wear was becoming a problem, due to the rough surface we were racing on. During qualifying the car's handling went away, due to a bad tire choice on my part. In any event, I still qualified second, but I never made it to the main as a tire went down and I stripped the spur gear. So the first road run was pretty impressive for the APEX, now let's

see how the APEX can handle the oval. For the oval test I took the APEX to the King Superspeedway at P.C. Hobbies in King, North Carolina. The King track is a very large, just what you need to cut loose with a gas car.

The stock front end worked very well on the road course, but for that oval I switched it out for BoLink's independent front end for their wide cars. This kit allows for both camber and caster adjustments, just the thing you need for oval racing. For tires I used a set of TRC's 3/8ths staggered radials, and I had added a Bud's Bi-Level wing to the T-Bird body. Now the APEX has no place to mount a wing to the chassis, so after getting the idea from Tecnacraft's Joe Goodwin, I mounted the wing to the rear window of the body. I simply installed the wing wire to the wing as usual, then bent it back and attached it to the body with a pair of Bud's Wing Buttons. That's it, and it works great!

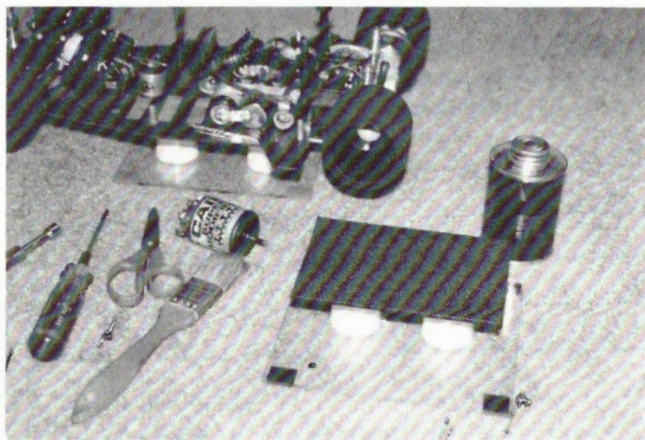
The first few laps around the track were a bit scary, but once I calmed down, the car started to work. Handling was average but not wonderful, keep in mind this is an

entry level kit and I'm driving this thing. Other than that it was fast to say the least, after years of racing electric on this track, this car was still more fun than my electric oval car. And I'm sure with a little practice and tuning this car would be a threat, like anything new it takes time to adjust to the power. You don't hold one of these bad boys wide open and turn left, it takes a smooth trigger to blast one of these missiles around an oval.

### OVERVIEW

Dynamite has done a good job to make the APEX competitive, at the same time kept the price the same way. Also using standard wheels and gears will certainly make the switch to gas less painful for those who already own most of the gears. Another plus is the APEX's compatibility with other Hop-Up's already available on the market. Overall the APEX is a great car for anyone who wants to get in on the excitement of Nitro racing. And for those of you that have a 10L, Dynamite has a conversion kit in the works and it should be on the market as you're reading this. So check it out!

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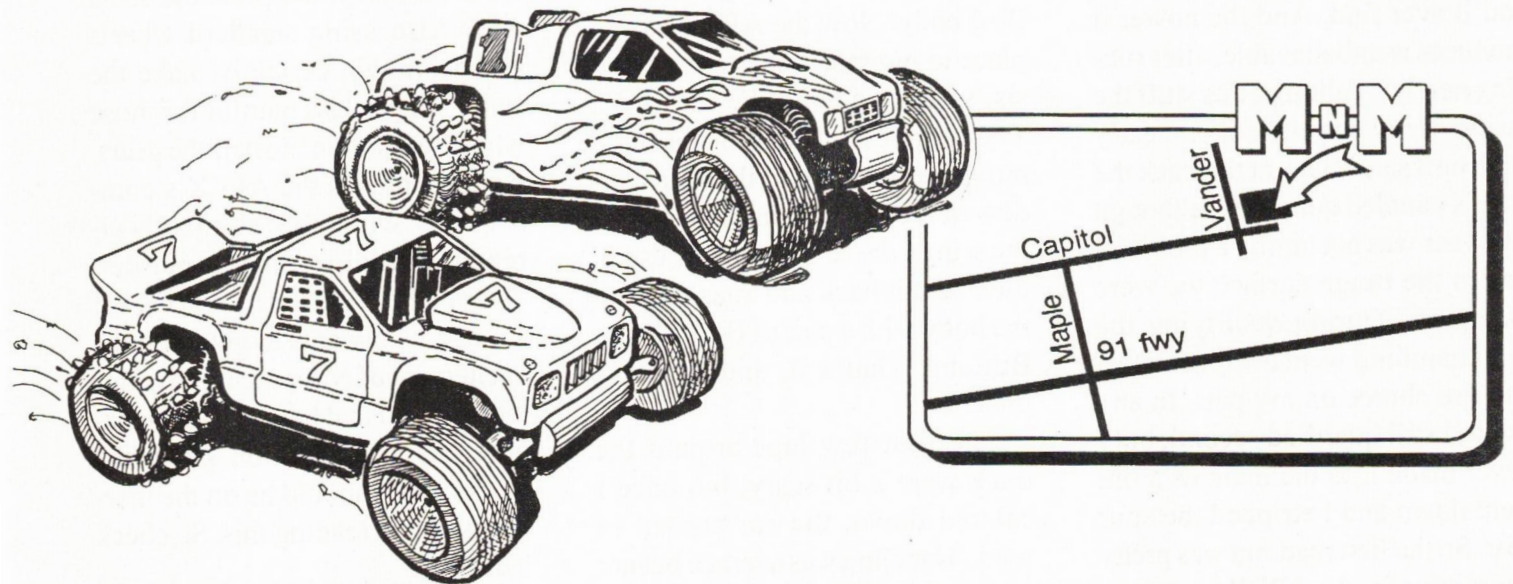
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## Bill McCall

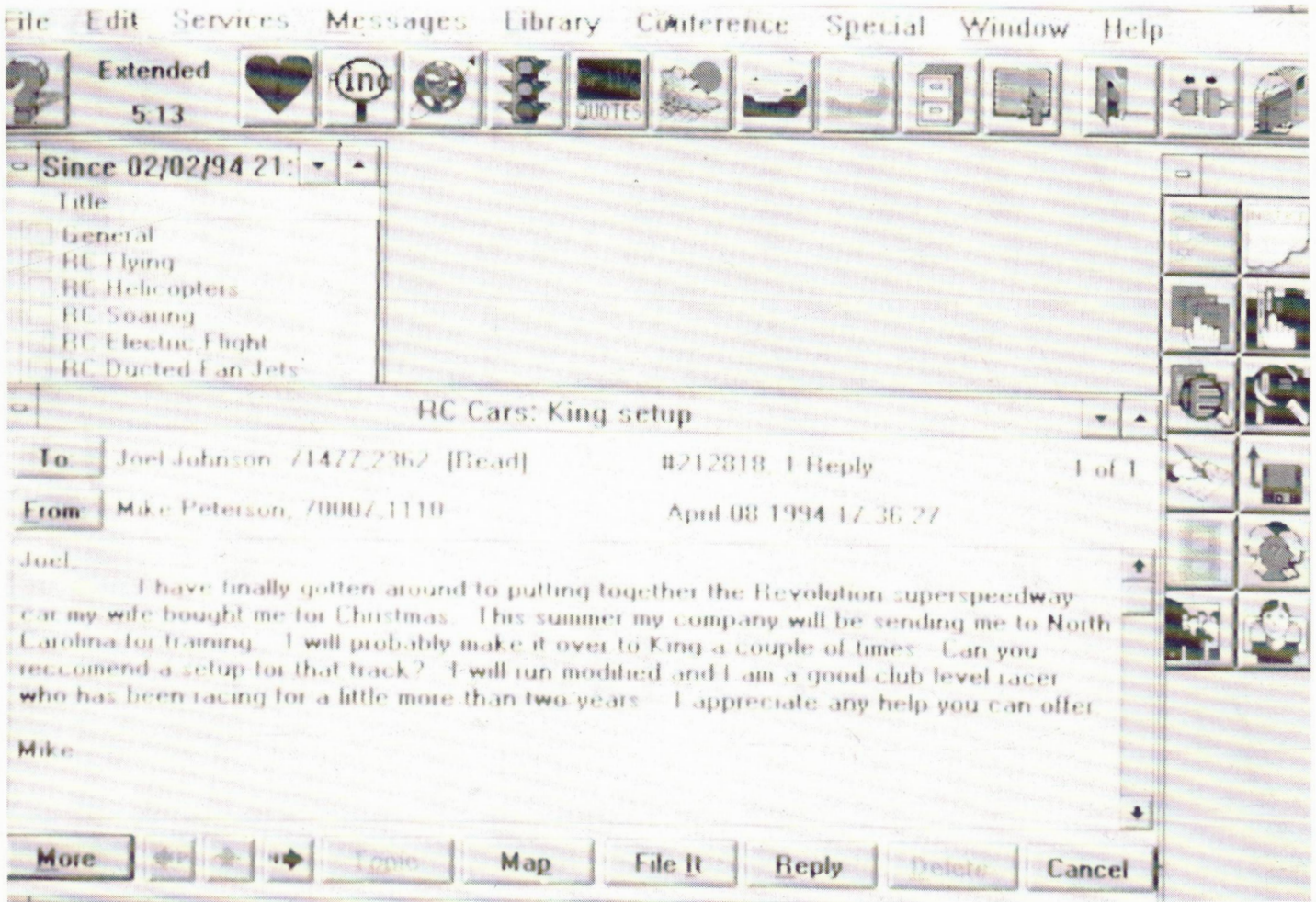
**E**ven if your not a member of the Al Gore fan club, by now, you have heard about the "Information Superhighway." This month, I've decided to tell you about one stop on that highway and what it can do for you. Of course, to get on this highway, you need more than a bus ticket. What you need is a personal computer, a

modem, and communication software.

Back when I got interested in radio controlled cars, (1986) personal computers were almost unheard of in homes. Having a computer background, I was quickly drafted to help run the scoring computer at our track. It was shortly thereafter that I discovered a vast resource of instant

RC information that is today still unsurpassed. Now that more and more racers also have computers at home, thousands of you have joined me in the only world wide electronic gathering place for racers and RC enthusiasts.

I am speaking of the Modelnet forum on the CompuServe Information Service. Since this isn't a



computer magazine I won't spend time telling you what

CompuServe is or how to get to it. If you don't know, ask a

*A typical screen on the ModelNet forum.*

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friend or visit your local computer store. With more than 1.7 million users, I'm sure you can find help getting there.

Once connected to CompuServe you will want to "GO MODELNET." Modelnet is an electronic bulletin board where you can leave messages and read those left by others. In addition to messages, there are libraries containing hundreds of files you can run on your computer. Among those files are graphic images known as "GIF" files. These images include shots of the Trinity

Revolver and the Losi XX buggy. These image files were available to Modelnet users long before any published pictures reached the news stands.

Speaking of GIF files, plans are being made for a contest where users can send in photographs of their cars or action shots of RC cars. Celebrity judges will decide the winners and the winning photos will win valuable prizes. Winners will also have their work displayed online. Now is the time to start gathering up your concourse and action photos! More details will be available online shortly after this article is published.

Modelnet also offers an electronic version of a conference room where users can "talk" live with other users in an instantaneous manner. Two or more users can use this room at any time. Official conferences are held periodically. Past guest in conference

have included Joel Johnson, Steve Verona and John Thawley.

By far though, the most popular part of the modelnet forum is the message area. What makes this the most popular feature is the users. Modelnet members encompass a wide range of people. There are onroad racers, offroad racers, gas racers, electric racers and car owners who have never set foot at a track. Modelnet members cover the entire U.S., Canada, much of Europe, as well as the Pacific basin. If you can't find a part locally, or you need expert advise this is the place to be.

In addition to a diverse group of racers, you can get personal responses from some of the most well known people inside the industry. Do you want some advice on how to set-up your 12th scale car? We have two of the world's finest to answer your questions. Frank Calandra and Joel

Johnson are waiting to help. All you need to know is their user ID numbers. For Frank that number is 72672,1437 and Joel's is 71477,2362. (Late breaking news, Trinity's Jim Deiter has joined us in the forum!) Do you have a question about those great new Sonic Motors from Reedy? Why not ask Mike Reedy himself? His user ID number is 76130,1746.

In addition to championship racers and manufacturers Modelnet also has representatives from several racing organizations. NORRCA and PROCAR both have their top man checking in regularly. J.R.Sitman (70372,2714) and John Thawley (73044,1631) respectively, use Modelnet for their business. If you need to check on a rule or a race date, both gentlemen are ready and able to help. From ROAR, treasurer Marie Barana (70523,1713) also checks in. Readers of this magazine may

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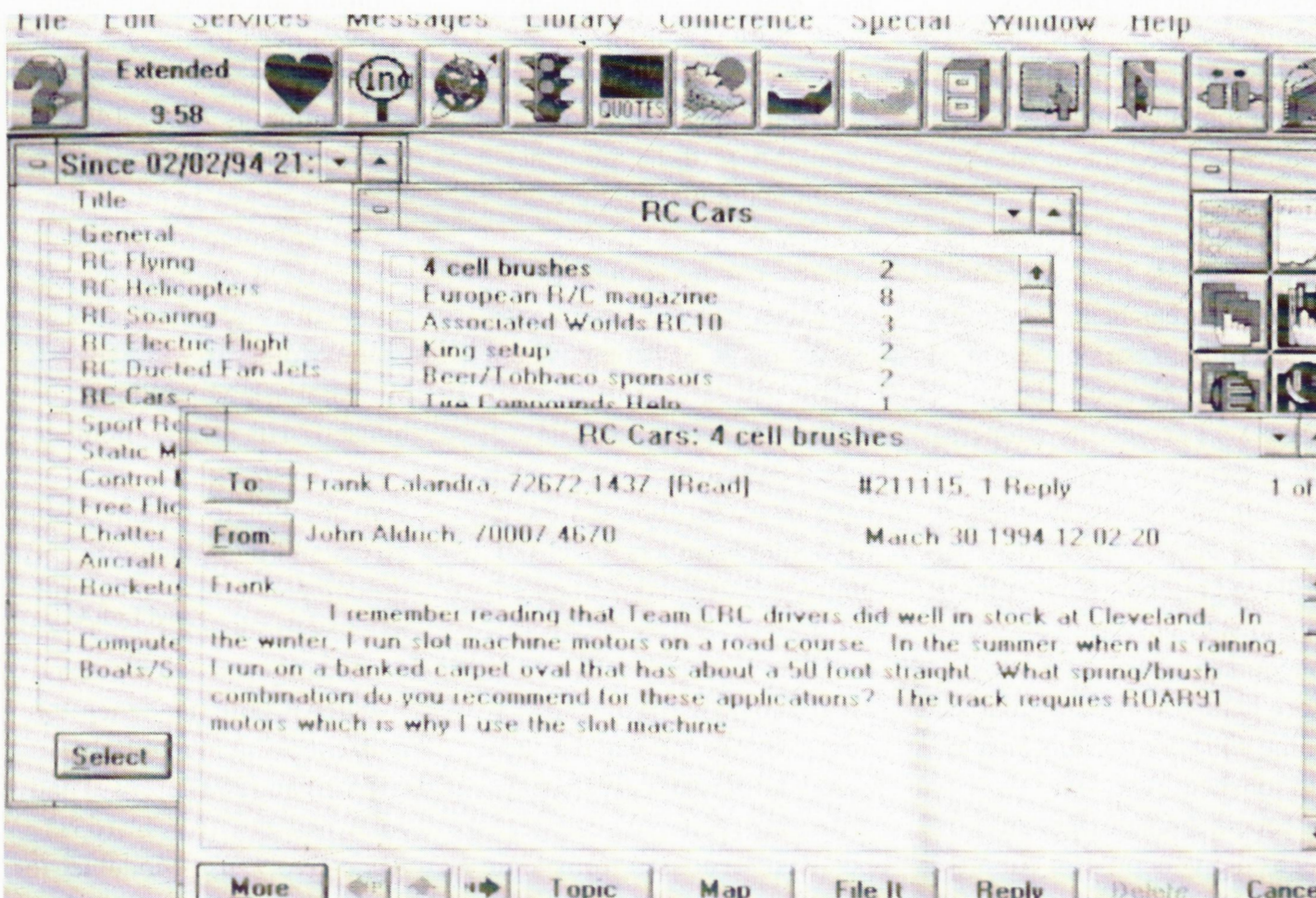
Made of crystal-clear high-impact engineering plastic for durability, this new wing is aerodynamically designed for high downforce and low drag. Available soon in COLORS!

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also recognize the Barana name. If you have a comment about an article, or are interested in advertising an upcoming race, send Marie a message. (You can also send faxes

from CompuServe so start taking note of those fax numbers of the magazines and the ads inside.)

We also have several hobby store owners as well as repre-

sentatives from Great Planes online. Are you thinking about adding a track to your store? Or perhaps adding a store to your track? We have several store owners (and former store owners) who would be glad to share their experiences.

Up to now I have stressed the famous names and the expert advice you can get from them. But I would be amiss if I didn't mention the most valuable modelnet resource. To me that is the membership in its entirety. There are (as of April '94) 2486 members in the Modelnet forum and their combined experiences con-

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tinue to be the one of the most valuable sources of information I have regarding RC cars. While the forum's membership is growing daily, it is still a small percentage of people who own RC cars. If you are looking for that one thing your competition doesn't yet know about I suggest you sign up before they do!

Before I tell you about CompuServe's special offer to Competition Plus readers I should tell you that while RC cars are an important part of the Modenet forum, it is not the only part. The RC Car section is only one of several

available that might also be of interest to you.

Other sections that offer the same level of service to

Modelnet members are ones that deal with model rocketry, static models, RC Boats, helicopters, and planes. Each

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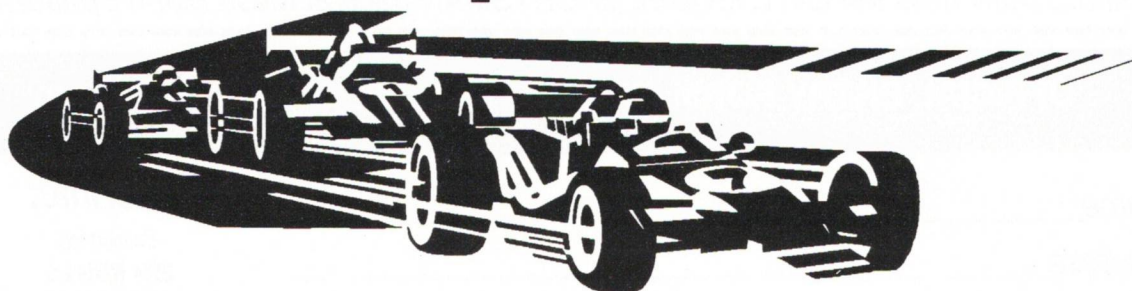
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# KIMBROUGH 400

*The West Coast's Premier Oval Race!*

**DATE: Labor Day Weekend  
Sept. 3 & 4, 1994**

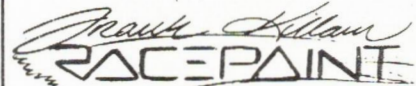
Friday: Practice  
Saturday: 3 rounds qualifying  
Sunday: 1qualifier and Mains

**ENTRY FEE: \$18.**  
Additional Entries, \$12  
**Trophies: 1st-3rd, All Mains**

**CLASSES:**

- Novice
- Sportsman Stock
- Expert Stock
- Sportsman Modified
- Indy/F1/Nas Truck
- Sportsman
- 400 Enduro

**Concours Sponsored By:**



(Sunday, before qualifying)

**• NORRCA Rules**

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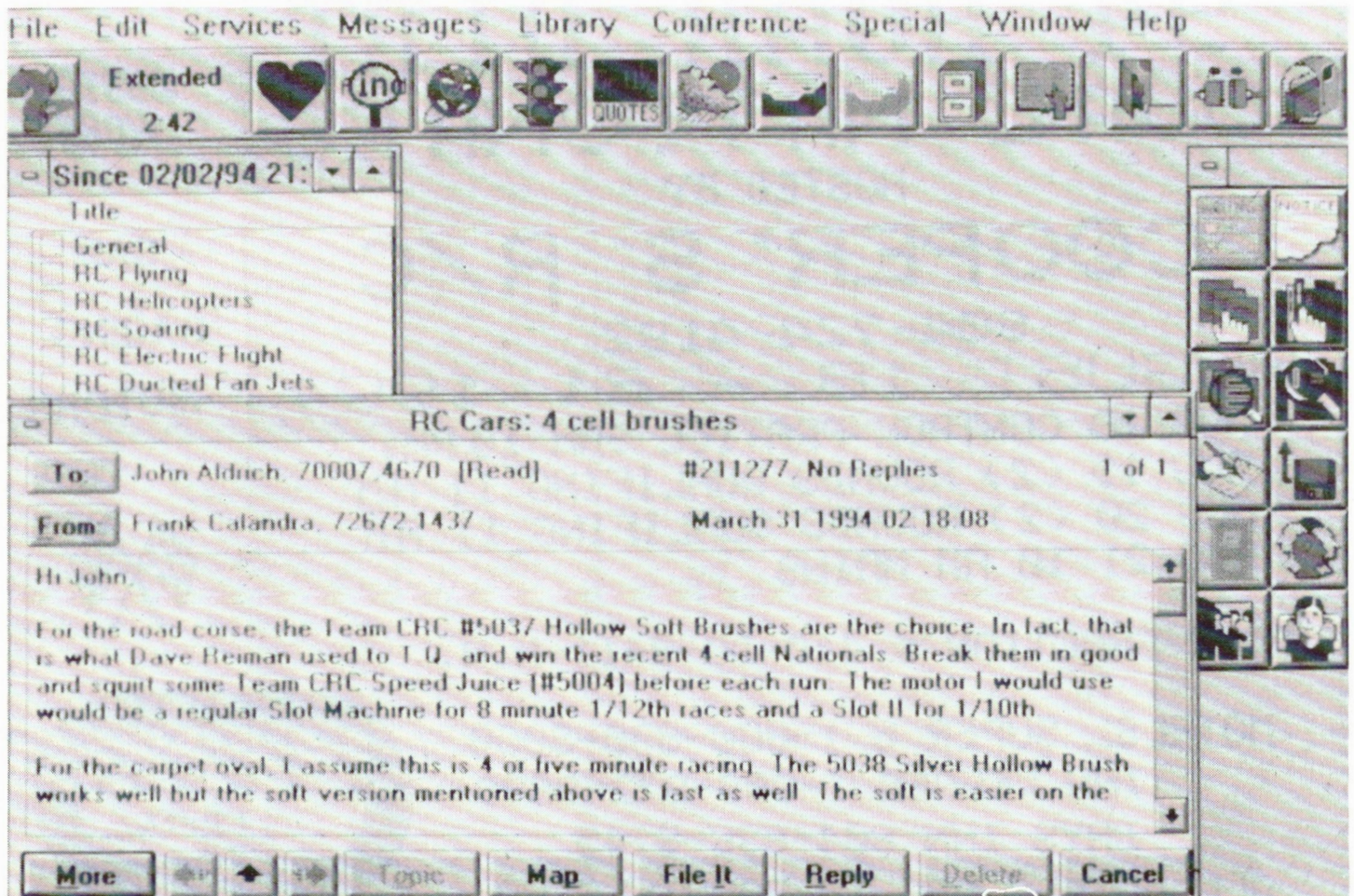
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Call (805) 835-0441**

Send Entries to: Racers Haven • 7401 White Ln., Bakersfield, CA 93309

**FREE T-SHIRT IF YOU SIGN UP BY AUGUST 20, 1994**



section also has its experienced users, industry experts, and representatives from various sanctioning organizations. I'm sure many of you will find these sections useful as well.

By now I hope you realize that you need to join CompuServe's Modelnet Forum to gain an advantage over your fellow racers who haven't joined and to stay up with the ones who have. For a special offer to get you started with CompuServe and Modelnet call 1-800-524-3388. If you ask for representative 169, you will be given,

free of charge, a kit which includes all the information you need to get logged on with the world's premier online service.

You can connect to CompuServe with any computer and modem that is equipped with communication software but, CompuServe does have its own software for PCs that run DOS or Windows as well as Machintosh systems. While extending you the free offer mentioned above, CompuServe's Membership Sales team will offer you the perfect package for your computer. This software is

optional, but in addition to it enhancing your enjoyment of CompuServe and the Modelnet forum, and allowing you to do much of your communication offline, it also comes with usage credit that offsets the price of the software.

Finally, I hope to see many of you on the Modelnet forum. Please stop in and say hello. My user ID is 7a0003,4300. Your comments on this article, or any of my other articles are most welcome. See you there!

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# RACING SCHEDULE

## ALABAMA

### PERFORMANCE R/C HOBBY & RACEWAY

Racing for 1/10th and 1/12th cars. Indoor carpet and oval course. Racing every Saturday night at 6:00 p.m. (also off-road - call). 1/10th scale off-road racing every Sunday at 2:00 p.m. (call for oval races). Track is at 2600 Beltline Rd. Decatur, AL. (205) 353-3399

## ARIZONA

### HOBBYTOWN U.S.A., PHOENIX

Racing for 1/10 scale asphalt oval every Sunday at 1:00 p.m. at "Bell Canyon" Pavillions. Located at 2814 W. Bell Rd. Phoenix, AZ 85023. Phone (602) 993-0122.

### HOBBYTOWN U.S.A., GILBERT

1/10th and 1/12th electric outdoor asphalt 100 ft. oval. Racing held twice a week, 12 months a year. Drag racing held on the 1st and 3rd Tues. of every month. Fully stocked hobbyshop, classes for all cars, and computer scoring make for a great racing experience. For race times and more information contact HobbyTown; Gilbert & Baseline Rd., Gilbert, (602) 892-0405.

### HOBBYTOWN U.S.A., SCOTTSDALE

1/10th and 1/12th electric outdoor asphalt oval. Year 'round racing twice a week in the warm Arizona sun. Fully stocked hobby shop and nearby restaurant/hotel accommodations make this a perfect R/C get-away. For race times and information contact Hobbytown; Indian Bend and Pima, Scottsdale, AZ (602) 948-3946.

## CALIFORNIA

### OUTLAW MOTOR SPEEDWAY

1/4 Scale Dirt Oval every first and third Saturday. 1/10 scale: Tues. Tamiya Off-Road, Thur. Off-Road & Dirt Oval, Fri. 1/10 and 1/12 on-road, first Sunday Dirt Oval, second Sunday 1/10 & 1/12 On-Road, 3rd and 4th Sun. off-road. 7920 Webster, Highland, CA, (714) 864-1770.

### THE RANCH PIT SHOP

1/10 Scale: Every Wednesday night at 6 p.m. Alternating Oval and Off-Road. Every fourth Sunday 1/12 & 1/10 on-road combined program. 1655 E. Mission Blvd., Pomona 91766, (714) 623-1506.

### SMR/CRC

1/8 Scale & 1/10 On-Road: First Sunday of each month at G.I.A., 1660 Stewart Street, Santa Monica, CA. Sign-up 8:30 a.m. For more info call Glenn Williams (213) 734-7888, Chris Chan (213) 393-3735, or Tom Wong (213) 821-5472.

### REECE'S R/C RACERS

1/10 Scale: 1st & 3rd Sundays at Spinner's Airport Raceway, 2nd & 4th Saturday's at Reece's R/C Racers, (209) 784-0922.

### SROKA'S INDOOR R/C

1/10 Scale: Every Sunday - Oval racing every 4th Sunday. 5216B Arboga Rd., Marysville, CA 95901. Call Michael or Vickie Sroka (916) 742-6148 or (916) 741-3051.

### HOBBY HAVEN RACEWAY

1/10 Scale: 1756 First Street, Livermore, CA 94550. For further info call (415) 443-5828 M-F 10 a.m. to 6 p.m.

### FAST LANE R/C

Address is 25845 San Fernando Rd. #21, Saugus, CA 91350. Contact John or Darlene at (805) 255-2404. Racing is off-road, dirt oval, asphalt road course and asphalt oval.

### THE SQUARE ROUNDHOUSE SPEEDWAY

1/10 Scale: Saturdays 3 events per month, Off-Road, Monster Truck Pulls and Oval Race. Oval dirt track and Off-Road tracks. 1468 Lander Avenue, Turlock, CA 95380, (209) 668-4454. Ask for Harold Lindquist.

### BROTHERS-IN-LAWS R/C RACING

1/10 Scale Dirt Oval. Racing every Sun. Call Bob (619) 949-5252.

### ANTIOCH RACEWAY

1/10th Dirt Oval racing every Friday 7 p.m. All classes. Sat. & Sun. 1/10 dirt oval and off-road 10:30 a.m. Also night racing. 5631 Lone Tree Way, Antioch, CA 94509. Call (415) 754-5700.

### R.C. CITY RACEWAY & HOBBIES

Off-road racing every Tues., Fri., Sun., Oval racing every Sat./Practice time and rentals available. Call for more info. (408) 262-3188. 1453 N. Milpitas Blvd., Milpitas,

### MOUNT SHASTA R/C RACEWAY

1/10 Scale: Lassen Lane and Smith Road. (916) 926-4717. Home of Cal-Ore Off-Road Championships. 1/10 off-road racing every other Sunday. May through October. Indoor carpet racing 1/10 & 1/12 Nov. through Apr. 826 Pine St., Mount Shasta, CA 96067.

### HOBBY HUT

1/10 Scale: 2665 Park Marina Dr., Redding, CA 96001, (916) 241-3737. Off-Road racing. Norcal Mini Off-rovers. Ask for Kevin.

### DESERT HOBBIES & RACEWAY

1/10 Off-Road racing 1st & 3rd Sundays. Every Friday 7:30 p.m. 25 min. from San Bernardino, 17210 Main St., Hesperia, CA 92345.

### NORRCA (National Organization for Radio Controlled Autos)

331 Mariposa Ct, Upland, CA 91786. (714) 981-9641 or fax 981-0527

### D & B HOBBIES AND RACEWAY

Off-road Thursday and Saturday, dirt oval Fridays. Special events on Sunday. Call (408) 280-6539, Wed. thru Sun. 2:30 to 6:00.

### BOB & JIM'S R/C WORLD

1/10 and 1/12 scale road course race every Mon., Wed., & Fri at 7:00 p.m. 1/12 and 1/10 scale oval racing on Sat. at 5:00 p.m. For more information call (714) 684-6314. Track is at 3485 University Ave., Riverside, CA 92501.

### JD HOBBIES

Racing for 1/12 and 1/10 gas and electric cars, on both on-road and paved oval courses. Racing is done outdoors, on an asphalt surface. The facility has a hobby shop, snack bar, AC power and scores races with an auto count system. The track is at 1009 W. College Ave., in Santa Rosa, California. For more information call (707) 571-1700.

### RC RACING CENTER & HOBBIES

1/10 Scale racing every Tuesday and Friday at 7 p.m. Sunday racing at 10:30 a.m. Indoor track and hobby shop, AC power, auto lap counting and food. Located in San Diego County; 9842 Channel Rd., Lakeside, CA 92040. (619) 443-2270.

### VENTURA ROAD RUNNERS

1/10 scale off-road every Friday and 1st Sunday. 1/10th dirt oval every Wed. and 3rd Sunday. 1/10th and 1/12th asphalt road the 2nd and 4th Sunday. 1/10 and 1/12 scale asphalt oval the 5th Sunday. Freedom Park Raceway, 520 Freedom Pk., Camarillo CA 93010. Contact Ed at (805) 499-8266 or Less at (805) 484-8920. Sign-ups close at 7:00 p.m. nights and 9:30 a.m. on Sunday.

### CLOVERDALE R/C RACEWAY

We race both indoors and out, gas and electric, in 1/12, 1/10 and 1/8 scales. The facility has carpet, and dirt tracks for road racing, off-road and oval. Race scoring is done via an auto count system, and there is AC power and a hobby shop on site. Parking isn't a problem, and there's even RV access. For more information call (707) 894-4468 or visit us at #1 Citrus Fair Dr., Cloverdale, CA 95425.

### RAMS

Racing for 1/8 scale cars on the 1st & 3rd Sundays of each month at Murco Plaza (Pasco Padre Parkway & Mowry East) in Fremont, CA. Contact Mike Alton (510) 490-8734.

### SO CAL RADIO CONTROLLED RACEWAY

Racing Wed., Fri., and Sat. for 1/10th electric off-road cars. This is an indoor facility with plenty of parking, AC power, snack bar, auto count and full

hobby shop. Track is also open for practice on non race days. Visit us at 11930 Valley View St., Garden Grove, CA 92645. The phone number is (714) 892-0088.

#### **HOBBY WAREHOUSE OF SACRAMENTO**

Indoor off-road racing with AC power. Snack bar, full pro shop and friendly staff. Track is located at 8950 Osage Ave., Sacramento, CA 95828. (916) 381-7588.

#### **SAN FRANCISCO RADIO CONTROLLED MODEL CAR CLUB**

Holding 1/10th scale gas and electric road racing on asphalt at the Tanforan Shopping Center. Races are held on the 2nd and 4th Sundays, February through November. For more information call Jerry Imboden at (415) 589-7836 or Randy Swan at (415) 221-1978.

#### **MNM HOBBY RACEWAY**

On and off-road racing highlights this complete facility. Road racing every other Saturday for 1/12 and 1/10 cars. Off-road every Tuesday, Friday and Sunday. Indoor pitting, power, chairs and snack bar. Address is 137 N. Vander, Corona. For more information call (909) 272-3545.

#### **CHICO R/C RACEWAY**

Racing for 1/10 electric off-road cars has come to Paradise, California! The track features a dirt circuit and there is AC power and RV access. The facility is scheduled to open in August of 1994. For more information call (916) 877-3007, or write P.O. Box 492, Paradise, CA 95967.

#### **LODI'S R/C SPEEDWAY**

Indoor 1/10 and 1/12 banked oval and road racing is in store for those who come to this track. In addition to the fine circuit racers can enjoy a fully stocked hobby shop, snack bar, AC power and scoring is done via an auto count system. The track is located at 1109 Black Diamond Way, Lodi, CA 95240. Phone them for our latest racing schedule at (209) 334-5681.

#### **JAKE'S PERFORMANCE HOBBIES**

Outdoor road racing finds should try this track located in Rohnert Park. There are classes for 1/12 and 1/10 scale cars and races are on asphalt and conducted on oval and road circuits. Along with this electric car track, there is a hobby shop, computer scoring, and food is available. For the latest racing schedule please call them at (707) 586-3375. Jake's is at 6650 Commerce Blvd. #21, Rohnert Park, CA 94928.

#### **M & L RACING**

Just about every scale known to man can be raced at this track. M & L races 1/12, 1/10, 1/8 and 1/4 scale in both gas and electric, on and off-road. The facility is outdoors and features a hobby shop, snack bar, AC power, auto count and RV access. For more information you can write us at 1875 #B Joe Crosson Dr., El Cajon, CA 92020. Phone (619) 449-1435.

#### **RACERS HAVEN HOBBIES**

Racing every Friday at 7 PM on a covered dirt track. Racing alternates weekly between off-road and dirt oval. Outdoor asphalt oval and on road racing monthly as well. Auto count, AC power, snack bar and RV access are also available. We have a full hobby shop on the premises as well. For a complete race schedule call (805) 835-0441 Track is at 7401 White Lane, #9, Bakersfield, CA 93309.

### **CANADA**

#### **RANDY SHANTZ RACEWAYS**

Racing for 1/10 gas and electric off-road every Sunday. Track measures 150' X 75', and there is wheel chair accessibility. Track is close to amenities, but there is no A/C power. The track is operated by Top Qualifier Race Club. Call Steve at (604) 945-3888 Track is at 1044 W. 14th St., North Vancouver, BC, Canada.

#### **R.R.O.L.**

1/12 carpet racing Tuesday, 1/10 carpet racing Wednesdays. Sept. to May, Asphalt & off-road in summer. Remote Racers of London, P. O. Box 7241, Stn. E. London, Ontario, N5Y-4J0, Canada. Dan Engelbreth, (519) 668-0427.

#### **S.T.A.R.C.**

1/12 Scale: Wed. nite - STARC Club Series. Rockton, Ontario, Canada. Sam Burke (519) 621-5424.

**S.O.R.C.R.C.** 1/12 Scale: Southern Ontario Radio Control Race Car Club in Toronto, Ontario, Canada. Racing alternating Sunday nites Oct. - April Scott Reynolds 298-4941 or Gary Joi 421-9061.

#### **HOBBYPRO RACEWAYS LTD**

100 X 50 Indoor track, 90 X 50 Indoor asphalt track and 200 X 60 Outdoor oval track all at this facility. Racing for 1/12 4-Cell Friday evenings, 1/12 and 1/10 6-Cell Saturday evenings and 1/10 off-road Thursday evenings and all day Sunday. On-site hobby shop, A/C power and 80 pit stalls. 16020-132 Ave., Edmonton Alberta Canada T5V-1M1. Phone (403) 455-RACE.

#### **HONDA HOUSE MOTOR SPEEDWAY**

Racing for 1/12 scale electric on-road. The track is an indoor facility, and we race on a carpet surface. We also have a hobby shop, auto count, and have AC power on hand. We are located at 384 Richmond St., Chatham, Ontario Canada, N7M1PQ. Call us at (519) 354-5530.

#### **AUTO R/C CHATEAUGUAY**

Indoor racing for 1/10 electric off-road cars is what to expect at this track. Along with a nice dirt circuit, you can purchase your parts here or pick up a snack. For those using the track you'll be happy to hear that they have AC power available. Give them a call at (514) 698-2151. Or stop by at 26 Boul. d' Anjou, Chateaugay (Montreal), Quebec, Canada.

### **CONNECTICUT**

#### **PANTHORN RACEWAY**

1/10 Scale: Panthorn Park, Burritt St., Southington, CT. Every Saturday May 1st - Nov. 1st. Off-road, oval, Baja, truck pulling. Call (203) 628-9345 Ben Carr, 272-9326 Pete Church, 237-6976 Bob Lavoie, 879-2316 Steve Magnani.

#### **WALLINGFORD INDOOR RACING ASSOC.**

Connecticut's oldest indoor r/c facility. Carpet road course is 225 feet and the facility has lighted pits for 125 cars. Scoring is done by AMB with races scheduled every Friday and Sunday through the month of May. For further information call Wayne Rydzy at (203) 265-3939. Track is at 63 North Cherry St., Wallingford, CT 06492.

#### **CONNECTICUT R/C OFF-ROAD**

1/10 Off-Road, from end of April to middle of October. Racing every Sunday weather permitting. Call Mike Belmonte at (203) 661-0145. Track is at Old Field School in Fairfield, CT.

#### **R/C HOBBIES RACEWAY**

1/10 Scale: Route 163, Bozrah, CT. Racing every Sunday, May 1 to Oct. 30. For more info call (203) 886-9441, ask for Mike or Bob.

#### **SNORR**

1/10 Scale: Racing every 1st and 3rd Sundays. P. O. Box 438, East Haven, CT, (203) 469-2594 or (203) 481-5813, Dave Seales.

#### **BUCKLEY SPEEDWAY**

1/10 Scale: 37 Douglas Street, Hartford, CT. Every Sunday April 1st to Nov. 31st. Black top oval. For more info call "Ziggy" or Debbie Kwasnicky (203) 246-4778.

#### **LITTLES HOBBIES**

1/10 Scale: Monday - Trucks; Tuesday - Sprint Cars; Sat. - 2WD 6 yrs. to 16 yrs.; Sunday - All classes indoor clay oval and road track fast, Stock & Mod classes. 111 Main St., Tr. 66, Hebron, CT 06248, (203) 228-4942.

#### **CONNECTICUT AUTO RACING TEAM**

1/10 Off-Road and Sprint Car Oval. 37 Douglas St., Hartford, CT 06114, Zig (203) 246-4778.

#### **K & M R/C SPEEDWAY & HOBBIES**

1/10 Scale: 735 Canal St., Stamford, CT 06902, (203) 967-7255. 7,000 sq. ft. complex, ample pit with power, fully stocked hobby shop. Organized racing held weekly. Call for details.

#### **EAST LYME R/C KAR KLUB**

1/10 Scale: Every Sunday starting May 20 thru Sept. Racing at 11 a.m. Located at Society Rd, East Lyme, CT (Behind the Junior High School). For info call Paul Johnson, 739-4070 eves. or weekends.

#### **NERCAR**

Racing for 1/8 and 1/10 gas on road. For info call Phil (203) 627-5410; Larry (203) 749-6281; Wes (203) 749-6281. Enfield, Conn.

### **COLORADO**

#### **MILE-HI R/C SPEEDWAYS**

1/10 Scale: Thurs. & Sat. off-road; Fri. carpet, Sun. 2 p.m. 178 S. Kalamath, Denver, CO 80221, (303) 722-6766.

### **M.H.O.R. R/C RACEWAY**

Indoor and outdoor 1/10 off-road racing for gas and electric cars. Complete hobby shop, A/C power, snack bar and ROAR rules apply. For info (303) 343-0151. We are located at 155540 E. Batavia Dr., Aurora, CO 80011, (East on 17th Ave. at Chambers Rd.)

### **ROCKY MOUNTAIN MINI SPORTS**

Racing for 1/4 scale cars has come to Denver. We race both off-road and oval, on dirt, indoors. Our facility has a hobby shop, snack bar and for counting accuracy we use an auto-count system. We are located at 6401 N. Broadway, Unit G, Denver, CO. You can reach us by phone at (303) 426-0110.

## **DELAWARE**

### **HOT TRACKS/D.A.R.C.A.R.**

Delawares finest carpet track. The circuit is more than 200ft. around! We have racing for 1/12 & 1/10 on-road and off-road cars. The facility also includes a hobby shop, snack bar, AC power and an auto count system. For more information call (302) 674-9123. The track is located in the Blue Hen Shopping Mall, in Dover.

## **FLORIDA**

### **JAY'S R/C**

1/10 Scale indoor carpet oval and road course. 5018 14th Street West, Bradenton, FL 34702, (813) 756-6393, 758-2565, 746-8649.

### **LOU'S R/C HOBBIES & RACEWAY**

Racing on Saturday is at 12:30 for 1/10th scale clay oval. Sunday racing is 1/10th off-road. Both tracks have handicap access. There is computer lap counting, a hobby shop and food available. The track is located at 4931 Oleander Ave., Fort Pierce, FL 34982. Call Lou at (407) 464-3207.

### **LAKE WHIPPOORWILL SPEEDWAY**

1/10 oval racing every Saturday. Open practice other days. 12345 Narcoossee Rd., Orlando FL, 32827 - (407) 277-9586.

### **B & T R.C. CENTRAL**

Racing for 1/10 off-road on the 2nd and 4th Saturday. Track at 811 Playground Rd., Fort Walton, FL 32548. Phone (904) 863-2666.

### **DOC'S INDOOR R/C RACEWAY**

Florida's state of the art facility. Plenty of pitting space, slot car track, bathrooms, snack bar and hobby shop. Located at 16803 US 19 N. Clearwater, FL 34624. For information call (813) 538-3096.

### **BROWARD COUNTY R/C RACE CLUB**

Racing for 1/10 and 1/8 cars in gas and electric models. We run on-road, off-road and paved oval. Racing is done outdoors, and there is AC power and an auto count scoring system. For those with motorhomes there is RV access. We race at 2201 N.W. 9th Ave., in Mill's Pond Park, Fort Lauderdale, FL. For further information call (305) 525-3304.

### **RIVER CITY R/C CAR CLUB, INC.**

Racing for 1/12 and 1/10 on road electric cars. We race outdoors on asphalt and score with an auto count system. Club address is 9711 Sharing Cross Dr., Jacksonville, FL 32257. Call (904) 268-1948.

### **CORAL SPRINGS ROAD RUNNERS**

Racing for 1/10 gas and electric cars on an outdoor off-road track. Racing is scored with an auto-count system to ensure accuracy. P.O. Box 9632, Coral Springs, FL 33075 - (305) 925-8284.

### **SOUTHWEST FLORIDA R/C RACEWAY**

Outdoor road race fans can come out and compete at this track. Race classes for 1/12 and 1/10 paved oval and drag racing on a cement track. The facility also includes a hobby shop, snack bar, AC power, an auto count and there's RV access. Track is at 2425 Rivers Rd., Naples, FL 33964. Phone them at (813) 455-1143.

### **COMPETITION HOBBY SUPPLIES**

There are three outdoor tracks to race on at this facility. Scales for electric 1/10 & 1/12, and racing classes that include off-road, paved oval, dirt oval and clay oval. Track is at 1006 Loudon Rd. Rte. 9, Latham, NY - (518) 786-3622.

### **GREATER ORLANDO AUTO RACERS**

This track races 1/10 gas and electric off-road, on an outdoor track. The facility features AC power and scoring is done via an auto count system. Track is at 970 Keller Rd., Altamonte Springs, FL 32714. For more information call (407) 263-4819.

### **FIRST COAST AUTO RACERS**

This is an outdoor concrete tri-oval measuring 465' at the centerline. There is racing every Saturday for 1/12 and 1/10 scale electric cars. Computerized auto-scoring, A/C power, snack bar, and pit tables for more than 150 racers compliment this track. For more information you can call or write Bob Thompson at: (904) 743-2161 - 6410 Waltho Dr., Jacksonville, FL 32211.

## **GEORGIA**

### **GEORGIA HOBBY CENTER**

1/8 and 1/10 off-road and clay oval every Sat. and Sun. at 2:00 p.m. 112 Kenwood Rd., Fayetteville, GA 30214. (404) 460-1753

### **SILVER WINGS HOBBIES & RACETRACK**

Indoor 260 ft. 1/10 scale clay oval. Complete hobby shop, plenty of electrical. Racing Tuesday & Saturday 7:00 p.m. Snack bar on site. 5611 Riverdale Rd., College Park, GA 30346 - (404) 991-2225.

### **LAKE MAYER RACEWAY**

Home of the S.C.O.R.E. 1/10 dirt oval and off-road track. Raceway is located at the Lake Mayer Park, Montgomery Crossroads, Savannah, Georgia. Please call (912) 355-6033.

## **IDAHO**

### **CAPITAL DIRT BURNERS**

Both gas and electric 1/10 scale cars are welcome here. We race dirt off-road and oval outdoors. Our track has AC power and computer scoring. We race every other Sunday. For more information call Mike (208) 345-3906 or Jim (208) 383-0426.

## **ILLINOIS**

### **MACHESNEY PARK RACEWAY**

1/4 scale, and 1/10 scale: Large asphalt oval racing alternating every Saturday and Sunday April thru October. 1220 Shappert Dr., Machesney Park, IL 61111, (815) 282-1311.

### **R & R HOBBY**

1/10 Scale dirt track inside and outside, also 1/12 tracks inside and outside. 1414 N. 24th St., Quincy, IL 62301, (217) 228-1133.

### **THE INSIDE TRACK**

1/10 Scale: Every Wednesday 7 p.m. and Saturday 6 p.m. For more info call (312) 898-5649. 725 Hill Ave., Aurora, IL 60505.

### **RECTOR'S R/C**

1/10 Scale: Indoor dirt oval/off-road. Alternate months. 6 p.m. Saturdays, 2 p.m. Sundays. RR3, Albion, IL 62806. (618) 447-3282.

### **CARPETBURNERS R/C CLUB**

436 East Main Street, (Rear) Danville, IL 61832, (217) 442-7466.

### **C & C HOBBIES AND RACEWAY**

Off-road every Fri. night and Sun. 2081 W. Station St. Kanakee, IL Call Chris at (815) 935-2600 or Ken at (708) 485-6366.

### **AMERI-TRAC SUPER SPEEDWAY**

All are invited to Sunday racing at its best! We have 1/10 oval and off-road electric, 1/10 and 1/8 gas off-road and a 400' center line of smooth concrete to race high banked tri-oval. One of the nation's largest off-road tracks that features 625 feet of racing for both Stadium trucks and Buggies. We have a large pit area, plenty of AC power, concession stand, a well stocked hobby shop and we are close to I-57. For a free schedule and VCR tape of the facility call or write us today! Phone (217) 234-8707. Rt. 3 Box 242, Mattoon, IL 61938.

### **MIDWEST HOBBY TRAX R/C RACEWAY**

1/10 scale indoor off-road and oval racing every Friday 8 p.m. and Sunday 10:00 a.m. AMB scoring, AC power, snack bar, full hobby shop. 114 Kirkland Circle - Unit A, Oswego, IL. (708) 978-RACE.

### **EAGLE SPEEDWAY AT PONTIAC**

1/10 & 1/12 Indoor carpet oval and road course racing held Wed., Sat. and Sun. Practice on Tue and Sat. AMB counter hobby shop, snack bar, etc. 313 N. Plum St., Pontiac, IL 61764. (815) 842-1738.

### **R/C RACEWAY - CHICAGO**

Racing for 1/12 and 1/10 gas and electric cars can be had at this indoor facility. There is racing for on-road and oval cars, and we race on carpet. The track has

AC Power and a snack bar. To find out about or racing schedule call us at (708) 352-5354. We are located at 2745 W. 111th, Mt. Greenwood, IL 60655.

#### **LEISURE HOURS R/C RACEWAY**

Indoor carpet track 48 X 96. Racing for all racers who own oval and on-road 1/10 and 1/12 scale. We also have off-road carpet racing with jumps, bumps, tabletops, dips etc. AMB & Auto-Score, fully stocked hobby shop, food. For more information or if you would like to be on our mailing list please call (815) 439-1477 (store) or (815) 439-1777 (track). We are located at 24121 W. Theodore St., Plainfield, IL 60544.

#### **SHILOH EAGLES SUPER SPEEDWAY**

Racing for 1/10 scale on Friday nights and Sundays on a super outdoor 415' center line high banked asphalt tri-oval. Racing on this track is April thru early October. Indoor carpet racing on our 150' center line high traction speedway Saturdays October and November, and Sundays December thru March. The track features plenty of pitting space (indoor space available during outdoor racing too) and AC power. AMB System 20 scoring, a fully stocked hobby shop on site, and a full service concession stand. Located in Shiloh, just twenty minutes from downtown St. Louis, just off I-64 East. For a free schedule and more information call or write us at: Phone (618) 277-6030 - 308 N. Virginia Ave., Belleville, IL 62220.

### **INDIANA**

#### **RPM R/C RACEWAY**

1/10 Scale Indoor off-road racing every Sunday at 12 Noon. 1112 S. 16th, Elwood, IN 46254. For more info call (317) 552-7758.

#### **R/C RACEWAYS**

1/10 indoor dirt oval. Wed. 6 p.m. oval. Fri. 6:30 p.m. Sun. 12 noon oval or off-road. Call (219) 747-6414. 2710 Nuttman, Ft. Wayne,

#### **ARVIN'S HOBBY CENTRE**

1/10 Scale: 2,600 sq. ft. carpet track with movable rails so we can change from oval to off-road. We run off-road and on-road cars on Sat., Sun., and Wed. 1403 E. Spring St., New Albany, IN 47150, (812) 945-3745.

#### **RACEWAY PARK**

Mishawaka, IN (Northern Indiana)

Winter - Large indoor carpet track - two Sundays a month. Summer - The Midwest's Best Off-Road track - two Sundays a month. Off-road track is on N. Main Street. For info call Bob (219) 256-1020.

#### **HOBBY WORLD RACEWAY AND HOBBIES**

Indoor dirt oval and off-road. Racing every Wed. and Sat. at 7:00 p.m. Full hobby shop, AMB scoring, AC power and snack bar. 1508 N. Harlan, Evansville, IN 47711. (812) 421-1100.

#### **RC ZONE & RACEWAY**

Located inside the Indy Indoor Sports at 34th & Highschool Road, we feature an indoor carpet track with racing every Saturday - April through October. Rentals available for racing on Friday nights. Full service hobby shop and facility. For more information call Greg or Russ at (317) 290-0067 or write to 6380 W. 34th St., Indianapolis, IN 46224.

#### **GONZO RACEWAY**

1/10 outdoor off-road racing on Sundays May thru September. Racing starts at 10:00. Indoor carpet racing November thru March. Computerized scoring. For more information (219) 980-8409. 418 Roberts Rd., Chesterton, IN 46304.

#### **BJ'S RIVERSIDE RACEWAY**

1/10 scale lighted 450 foot outdoor off-road dirt track. 1/10 scale 115 foot indoor high banked dirt oval with jumps. Outdoor racing Friday at 6:30 p.m. Bomber classes (6-cell and bag motor, 6:00 min. heats) Saturday 6:30 p.m. oval racing (all classes, 4:00 heats) Sunday 6:30 p.m. off-road (All classes, 4:00 min. heats) A/C power, computer lap count, snack bar & R/C sped shop. 265 South Clay St., Jasper IN, 47546. Call Joe "BJ" Lorey (812) 482-3484.

#### **P & T HOBBIES**

1/10 off-road and oval racing on one of the midwest's finest circuits. Full service hobby shop on site and ample pitting with AC power. Oval is 220' long and off-road circuit offers more than 300' of racing. Racing Fri. night and Sat. R.R. #2, Box 450A, Mitchell, IN 47446, (812) 849-6666.

#### **RIMFIRE RACEWAY**

Racing for 1/10 scale gas and electric cars is what has made Rimfire Raceway the popular track that it is. The facility features an indoor and outdoor track, and they race both off-road and oval. Rimfire has a hobby shop, snack bar, AC

power and an auto count system. The track is located at 8 Wood Ct., Hebron, IN 46341. Call them for the latest racing schedule at (219) 996-6288.

#### **R/C WORLD OF INDIANA**

This popular track has racing for 1/10 electric off-road cars. The facility features a hobby shop, snack bar, AC power, auto count system and there is RV access. For their racing schedule call (317) 874-2464. Or they can be reached by mail at R.R. #2 BGHox 335, Lynn, IN 47355.

### **IOWA**

#### **BOB'S R/C SUPPLY & RACEWAY**

1/10 Scale: Indoor carpet racing! Tues. 1/10 oval; Fri. 1/12 Road Course; Sat. Monster Trucks. Stock & Modified. Call Bob, Nancy or Kevin (319) 232-2235, 935 Sheerer Ave., Waterloo, IA 50701.

#### **NORTH PARK R/C SPEEDWAY**

1/10 & 1/12 electric, 1/8 gas and 1/4 scale: For info write c/o Mike Beisch, 805 S. Jerome, Algona, IA 50511 or call (515) 295-9352.

### **KANSAS**

#### **EBERSOLE HOBBY & R/C RACEWAY**

1/10 Scale off-road and oval. Races Wed., Thurs., Sat., and alternate Sundays. 11417 W. Highway 54, Wichita, KS 67209. Len Ebersole, (316) 722-8888.

#### **KANSAS R/C RACING CLUB**

Every Second Sunday, Junction City; Every 4th Sunday Enterprise.

#### **DEE & MEE HOBBIES**

Two tracks; dirt oval and off-road, oval on Mon. and off-road on Fri. Both at 7:00 p.m. Carpet 1/12 on Tue. at 7:00 p.m. 628 Kansas, Topeka KS 66603. 357-4232.

#### **EBERSOLE R/C SUPER SPEEDWAY**

High banked asphalt oval, road course, dirt oval and off-road. Electronic lap counting. track at 11417 W. Hiway 54, Witchita, KS 67209. Phone (316) 722-8888.

#### **RCRC RACEWAY**

Outdoor dirt oval and off-road track with full hobby shop, AC power, concessions and lights for night racing. Track is 95 by 65. For more information contact Bob Dunker at (913) 626-3261 day or (913) 626-9681 nights. Track is 507 N. 4th St., Atwood, KS 67730.

#### **R/C WORLD RACEWAY**

Corky and Pam Green are your hosts for 1/10 electric off-road and dirt oval racing on their indoor track. This facility has a hobby shop, snack bar, auto count and AC power. Racing for the dirt off-road cars is Saturday and the dirt ovals race Thursday. Call (913) 793-2313 for current start times. They are located at 217 Brownie Ave., Scranton KS, 66537.

### **KENTUCKY**

#### **HOBBY CENTER**

Hobby Center - 2106 Triplett St., Owensboro, KY 42303 - (502) 683-7611. Full service facility including hard surface flat track with a straight 75 feet long! Track indoors, regular racing every Thur. at 7:00. Track open daily for practice. Hours 11:00 a.m. to 7:00 p.m. Mon. - Fri., Sat 11:00 a.m. to 5:30 p.m.

#### **RIVER CITIES R/C RACEWAY**

1/10 Scale: Racing at 5:30 Saturday evenings under a light area. Call Randy Aust (606) 836-4273 or Jason Graham (606) 836-2613. Ashland, KY 41101.

#### **PIT ROW HOBBIES**

Both gas and electric, 1/12 and 1/10 cars will find a home racing here. There are also classes for on-road, off-road and dirt oval cars. This complete facility features a Hobby shop, AC power and scoring is done by auto count. Pit Row races both indoors and out, and with the number of classes it's a good idea to give them a call for the latest schedule. They can be reached at (502) 782-2419. They are located at 281 New Porter Pike, Bowling Green, KY 42103.

### **LOUISIANA**

#### **CAJUN R/C & RACEWAY**

1/10th scale off-road dirt track (outdoors) Complete hobby shop, A/C power,

food. Races every Sunday at 1:00 p.m. Route 2, Box 288 - Hwy. 343 (Bosco), Church Point, LA 70525. For more info call Ray or Sandy at (318) 873-3855.

#### **CAJUN R/C & RACEWAY #2**

1/10th scale dirt oval track (outdoors). Complete hobby shop, AC power. Races every Saturday at 2:30 p.m. Address is 110 A Darbonne, Sulpher, LA 70663. Call Randy or Sandy at (318) 527-9129.

#### **INDY SPEEDWAY AND HOBBY**

A unique facility that features racing for 1/10, 1/12 and 1/24 scale. In addition to R/C, the track also races slot cars. Racing for R/C is done, outdoors, on a paved oval. The facility features a hobby shop, snack bar and scoring is done with an auto count system. They can be reached at (504) 367-1891. The track is at 3753 General DeGualle Dr., New Orleans, LA 70131.

### **MAINE**

#### **CENTRAL MAINE R/C SPEEDWAY AND HOBBIES**

This facility features two carpeted tracks, an oval and a road course. There's also off-road racing. We have a complete r/c pro shop and race on Fridays and Sundays. This indoor facility also has a snack bar, AC power and an auto count system. The track is located at 18 Lithgow St., WInslow Maine. For information call (207) 877-2232.

### **MARYLAND**

#### **MASON DIXON R/C CAR CLUB**

1/10 Scale: Every Sunday at 1 p.m. Track location at Hagerstown Fairgrounds, Hagerstown, Maryland. Call King's R/C Cars, 219 E. Washington St., Hagerstown, MD 21740, (303) 739-0080.

#### **CENTRAL MARYLAND ELECTRIC RACING CLUB (CMERC)**

##### **Community R/C Speedway**

1/10 Scale: Racing every Saturday dirt oval. Middletown Park, Middletown, Maryland. Contact John Mauchamer, (301) 698-9545. 1/12 Scale: Mark Coats (301) 694-7420.

#### **TEAM R & R, INC.**

1/10 & 1/12 scale indoor oval carpet racing. Every Sunday. for more info (301) 848-2144 or (301) 876-2983. Westminster, MD 21157.

#### **MARYLAND R/C CLUB**

1/10 & 1/12 racing indoor carpet. Toy World R/C, (301) 424-0430.

#### **GPA HOBBIES, INC.**

GPA Speedway races 1/10 off-road and 1/10 and 1/12 indoor road. For schedule information call (301) 805-9004 or write to GPA at 3498 Crain Hwy., (Collington Plaza), Bowie, MD 20715.

#### **THE TRACK/MARYLAND R/C CLUB**

1/10 & 1/12 carpet indoor banked oval and road course. Track at 16806-08 Oakmont Ave., Gaithersburg, MD 20877. (301) 417-9630 or 424-0430.

#### **THE COCKEYSVILLE ASTRODOME**

1/10 & 1/12 scale on-road indoor carpet track. Snack bar, hobby shop and auto count system. Racing Thursdays and Saturdays. C.A.R. Cockeysville Astrodome Racers, Inc., 10854 York Road, (Rear) Cockeysville, MD, (301) 666-1098., (410) 666-2521.

### **MASSACHUSETTS**

#### **BROCKTON INTERNATIONAL SPEEDWAY**

1/10 & 1/12 Oval racing on Mon. 7:30 p.m. 1217 Main St., Brockton, MA. For information call (508) 588-9355.

#### **R/C PERFORMANCE CENTER**

1/10 Scale carpet oval and indoor off-road dirt track. Racing Tues., Thurs., Sat., & Sun. 4 Manley Street, West Bridgewater, MA 02379. Ask for John (508) 588-9666.

#### **HOBBIES ETC. RACEWAY**

1/10 & 1/12 scale: Every Sunday Racing at 1 p.m. Indoor on-road carpet. For more information call (617) 389-3331. Medford High School, Winthrop St., Medford, MA.

#### **NORTH EAST AUTO RACERS (NEAR)**

The club hosts 1/8 gas and 1/10 electric road racing. Track is behind Cobblestone's Restaurant. Races are scheduled May through October. For full

schedule contact George at (508) 346-8456.

#### **MEGADROME RAEWAY/BRCCR CLUB**

One of the largest facilities on the East Coast. Racing for 1/10 electric and nitro on, off-road and clay oval tracks. Track is located at North Adams Plaza, Rt. 8 Curran Hwy., North Adams, MA 01247

For race and practice information call Gordon at (413) 663-9593, Richard (413) 445-4777 or Warren (413) 442-2566.

#### **WEST STREET HOBBIES RACEWAY**

1/10, 260 ft. banked carpet oval. Racing Wed. & Sat. at 7 p.m. (508) 533-1231. 114C Main St., Medway MA 02053. NORRCA rules.

### **MICHIGAN**

#### **USA RACEWAYS**

1/10 & 1/12 Scale: Road racing Wed. and Sat. 1/10 oval Friday and Sunday. Stadium 1/10 on Saturday. 6083 Dixie Highway, Bridgeport, MI, (517) 777-7USA.

#### **HARRISON INTERNATIONAL SPEEDWAY**

1/10 Scale: Friday night high banked small oval. Sunday large flat oval. 3519 N. Clare Avenue, Harrison, MI 48625, (517) 539-7959.

#### **GLASS CITY RADIO CONTROL**

Racing 1/10 & 1/12 scale: Clayton White (1/12) (419) 882-2518 or Mike Marshall (1/10) (313) 241-5321.

#### **BAJA BAYOO R/C RACEWAY**

1/10 scale off-road racing May through September. Racing every Sunday at 1:00 p.m. weather permitting. 5313 West 22 Mile Rd., Tustin MI. Track is 8 miles south of Cadillac. (616) 829-3447.

#### **R & L HOBBIES**

At this track you can race 1/10, 1/8 and now even 1/24 scale. The small cars run on an indoor carpet track, but we also have outdoor racing. There are classes for gas, electric, off-road, and dirt oval. This complete racing facility has a hobby shop, snack bar and AC power. You can reach us by phone at (616) 323-3686 or fax at (616) 329-1744. We are located at 9782 Portage Rd., Kalamazoo, MI 49002.

#### **RIDERS SUPER SPEEDWAY**

Racing for 1/10 and 1/12 electric cars. We have an indoor carpet oval course, with a complete hobby shop, snack bar, AC power and score by auto count. Located at 4415 S. Westnedge, Kalamazoo, MI. Call us at (616) 349-2666.

### **MISSISSIPPI**

#### **FASTRACKERS RACEWAY**

1/10 scale off-road racing every weekend. One of the biggest and most challenging off-road tracks in Region 6 ROAR sanctioned. For more information and racing schedule, write - 4909 West Gate Hills Dr., Meridian, MS 39305 - (601) 693-8368.

#### **JACKSON R/C RACING ASSOCIATION**

Car and truck racing Sundays at 10:30 a.m. and Tuesdays at 6:00 p.m. Computerized lap counting, all classes pan stock and modified, gearbos stock and modified, truck, 4 X 4, Dominator class, and 1/12 if enough to run. Track is 2 1/2 miles west of Rt. 9 on Rt. 526. (908) 905-1593.

#### **CROSS ROADS RACEWAY**

1/10th off-road racing every weekend. Dirt banked oval and a road course in the center of the track. Come and race those modified motors on the Big Oval. For more information call (601) 287-7169. Chief Electronics/Radio Shack, Corinth, MS 38834.

### **MISSOURI**

#### **HOBBIES 'N STUFF RACEWAY**

Off-road racing for 1/10 scale electric trucks and buggies every Wednesday, Friday and Sunday. Our 280 foot indoor carpet track is ROAR legal with 8 foot wide lanes and carpet jumps. Computer scoring by Victory Lane II. Hobby parts and food on location. Come see us at: 102 West Pearce Blvd. Wentzville, MO 63385. Phone (314) 327-6006 for more details.

#### **FAST TRAX**

This indoor track races 1/12 and 1/10 electric on-road cars. The track surface

is carpet, and the facility includes AC power and an auto-count system. Our phone number is (417) 725-4337. You can also write to us at 206 Water, Nixa MO 65714.

## NEBASKA

### OMAHA NEBRASKA RADIO OPERATED AUTO DRIVERS

1/10 & 1/12 Scale carpet and pavement racing. Oval and road course. (402) 331-2907.

### OVER THE WALL GANG

Schedule: Nov.-Mar. 1/10th oval, 1/10th & 1/12th road course. Apr.-Oct. outdoor off-road and asphalt oval and road for 1/10th and 1/12th cars. On site hobby shop. Located at 401 Market Pl., Norfolk, NE 68701. Phone (402) 379-0879.

### HOBBYTOWN USA

1/10 scale, 1/3 mile high banked dirt oval. Racing Tues. at 7 p.m. and Sun. at 1:30 p.m. May through October. Located in the East Park Mall; 66 & 9 streets, Lincoln, NE 68510. (402) 434-5056.

## NEVADA

### AMS R/C RACEWAY

Racing is 1/10th off-road Wed. nights at 7 p.m. & Sun. at 10 a.m. Track has a clay surface. On Sat. 1/10 oval/on-road racing on carpet at 7 p.m. This is an indoor track (110 x 44 clay off-road and 110 x 40 carpet track) and we have a hobby shop and snack bar. We are also only 2 miles away from the casinos and hotels. Open daily from 12-9 p.m., closed Monday. Track is at 1130 Icehouse, Sparks, NV 89431. For more information call (702) 355-8803.

## NEW HAMPSHIRE

### HOBBIES PLUS & R/C RACEWAY

Track is at 14 Celina Ave., Hashua, NH 03063. This is New England's largest (350 ft.) and fastest banked carpet oval. Also 26 x 72 flat carpet track dedicated to 1/12 road racing. Pit areas with electricity for over 200. Complete hobby shop, computer scoring. For more information call (603) 882-9200.

### ACTION R/C RACEWAY

1/10 Scale & 1/12 on-road, 1/10 off-road cars and trucks. Indoor carpet high banked oval. Family Fun Hobbies, 201 Washington St., Claremont, NH. (603) 543-1022.

### HOBBY ETC. RACEWAY

Indoor carpet banked oval for 1/10 and 1/12 scale. The 1/12 division also can road race. AMB scoring with a full hobby shop and concessions on the site. Telephone is (603) 595-8549. Rt. 101A, Amherst, NH 03031.

### NEW ENGLAND HOBBIES AND R/C RACEWAY

Racing for both gas and electric cars, in 1/10 and 1/8 scales. This outdoor track features off-road and dirt oval racing every Saturday from May - October. There's an auto count system for scoring, and a hobby shop and snack bar. We are at 49 Eaton Hill Rd., Auburn, NH. Call Larry at (603) 483-8371 or Chuck at (603) 483-2274.

## NEW JERSEY

### AMERICAN HOBBIES

1/10: Thurs. Oval; Sun. Off-Road & Oval. Call (201) 446-2010.

### PARLOR HOBBIES

1/10 & 1/12 Scale: Short track stock car racing on road courses. 1/10 on asphalt. Truck class with 1/12 on road, off-road. Rabbit Lane & 34 Broad St., Matawan, NJ, 566-3158.

### KIM'S R/C PIT STOP

I.E.D.A. drag racing - 10 classes including bracket. Racing every Sunday on an outdoor asphalt track. We also have an X-Mas tree, and computer scoring and printout. Call for latest schedule at (201) 942-5955. We are located at 357A Union Blvd. Totowa, NJ.

### AL & RICH'S R/C SPEEDWAY

Indoor carpet road course and 1/10 dragstrip. AMB system 20 and Dragmaster Timing System. Racing Friday, Saturday and Sunday with open practice on

Thursday. Track is at 90 N. White Horse Pike, Hammonton, NJ 08037 (located at Texaco Station). For more information call (609) 561-7584.

## NEW MEXICO

### LAS CRUCES HOBBY RACEWAY

1/10 scale off-road and oval on a 7,200 square foot track. 1/10 gas truck and electric racing every Sunday. 1996-A S. Valley Dr. Las Cruces, NM 88001. Phone (505) 524-8530

### RACER'S INN

Full hobby shop and concessions. 1/10 off-road every Sat. at 6:00 p.m. on outdoor 70x120 track. Also 1/4 scale Sprints and Grand Nationals. Oval and dirt oval. Call for schedule. Located at 4300 Rankin LN. N.E., Albuquerque, NM 87107. Phone (505) 345-5988.

### DUKE CITY HOBBIES

A 66 X 33 hard packed clay track with computer scoring is the attraction here. Classes for 1/10 electric cars and trucks. There's handicap access to the driver's stand, and food and lodging are nearby. In addition, rental cars and truck are available. For more information call (505) 299-3088 - 13140 J Central St., Albuquerque, NM 87123.

## NEW YORK

### WALT'S HOBBY & CRAFT

1/10 & 1/12 Scale: Two indoor tracks. 1/10 clay oval, Mon. & Sat; 1/10 Gearbox carpet, Mon.; 1/12 & 1/10 carpet, Tues. Oval and Road Course. Weight Pulling Wednesday. 2 Dwight Park Drive, Syracuse, NY, (315) 453-2291.

### REC. R/C RACEWAY

1/10 Scale Clay Oval. Saturday - Oval; Sunday Off-Road. Call Erin Clancy (914) 868-7715. Route 82 to Standfordville, NY 12581.

### ROMAC

1/10 and 1/12 on large carpet oval. Thursday and Sunday. (Northern Lights Mall) N. Syracuse, NY. For more info call (315) 468-1463 or (315) 468-6544.

### SCHENECTADY R/C SPEEDWAY

1/10 & 1/12 Scale: Indoor oval carpet and Monster Trucks. 955 State St. Schenectady, NY, (518) 3709-3747.

### BROWNIE'S HOBBIES

1/10 Scale: Off-Road Dirt Track. Friday evenings 4WD & 2WD. Track open April - November. 124 Bennett St., Staten Island, NY 10302, (718) 727-2194.

### RAPID TRANSIT RACEWAY

1/10 Scale: Mon, Tues., & Sat. - Practice. Wednesday - Stock & Mod.; Thursday Sprint Car; Friday Sportsman & Open Class. 2104 Broadway, Schenectady, NY 12306, (518) 372-0777.

### CAPITOL DISTRICT R/C OUTLAWS

1/12 Scale 4-cell carpet. Oval and road course. Every Friday at 7:30 p.m. October to April. For further info contact Capitol District R/C Outlaws, 223 Fourth St., Scotta, NY 12302, or Sam (518) 374-3801.

### QUEENS OFF-ROADERS

One of the biggest 1/10th off-road tracks in the country! Racing on Fri. at 8:00 p.m., Sat. at 3:00 p.m. and Sun. at 11:00 a.m. For latest information call (718) 392-5766. 42-12 13th St., L.I.C., NY 11101.

### VICTOR R/C ASSOCIATION

1/10 scale clay oval track & off-road racing. Fridays and Sundays, May through September. 1309 Mertensia Rd., Farmington, NY. For information call Larry at (716) 394-3754.

### BEACH HILL SPEEDWAY

Racing for 1/10 electric off-road and dirt tri-oval. Racing is done outdoors, and the track has RV access. There is also a snack bar and AC power. The speedway is located at 1760 Beach Rd., Watkins Glen, NY 14891. To call them dial (607) 535-2616.

### R.C. WORLD HOBBY CENTER

Road racers who pilot 1/12 cars will find plenty of racing action at this indoor carpet track. Along with a hobby shop, there is a snack bar, AC power and scoring is done via an auto count system. Call them for their schedule at (718) 326-0002. They are located at 69-57 Juniper Blvd. South, Middle Village, NY 11379.

### TRANSIT SPEEDWAY & HOBBIES

If you like to race 1/10 and 1/8 cars this is the place. At our track we have classes

for gas and electric cars and racing for off-road, on-road and paved oval. Depending on the class we will race either outdoors or indoors, on carpet, asphalt or dirt. Our facility also boasts a hobby shop, snack bar, AC power and we have an auto count system. For a schedule please call us at (716) 684-7368. We are at 5319 Transit Rd., Depew, NY 14043.

#### **P.R.O. SPEEDWAY**

Electric racing for 1/10 and 1/12 scale cars can be found at this speedway. Classes for on-road, off-road and dirt oval are available. We race indoors and out, and our facility has a hobby shop, snack bar, AC power and scoring is done via an auto-count system. For the latest racing calendar call (716) 257-3101. Track is at 5 Washington St., Cattaraugus, NY 14719.

#### **EAST END OFF ROADERS**

Racing for 1/10 scale electric cars, trucks and sprints. We feature both a dirt oval and an off-road course. Races every Sunday, with sign ups starting at 9 A.M. There is AC power available, a hobby shop on the premises and a snack bar. For accuracy an auto-count system is used. For more information call (516) 298-2020 or stop by Mattitock Hobbies at 7355 Main Rd., Mattituck, NY 11786.

### **NORTH CAROLINA**

#### **DIXIE R/C HOBBY SHOP**

1/10th Scale: Every weekend Sat. & Sun. The races will alternate between oval and motorcross starting in May. P. O. Box 135, Ramseur, NC 27316, after 6 p.m. (919) 824-2770.

#### **MID-CAROLINA R/C SUPER SPEEDWAY**

1/10 & 1/12 high speed banked quad-oval and road course. Located on Flint Hill Rd., Off I-77/Carowinds exit, So. of Charlotte, NC. Fred Penland, (704) 373-2535 7:30 A.M. to 4:30 P.M.

#### **ASHEVILLE HOBBY SPEEDWAY**

1/10 & 1/12 scale asphalt oval-indoors. Racing Wed. & Sat. 7:30 p.m. Highway 25, Naples, NC 28760, (704) 684-9814 ask for Jack or Sharon Murdock. 1/10 Dirt Oval & Off-Road. Racing Sat. & Sun. 1st & 3rd weekends. 6200 McGregor Dr., Charlotte, NC 28227, (704) 545-0746 ask for Steve Hill.

#### **RC HOBBY & RACEWAY**

1/10 & 1/12 indoor carpet racing Nov.-Mar. Oval and Off-Road dirt racing every Saturday. For more info (919) 228-6809, 1358 S. Church Street, Burlington, NC 27215.

#### **BOOGLE BAY R/C RACEWAY**

600 foot asphalt oval raceway with 30 foot wide straits and 40 foot wide turns. The track races 1/10th, 1/12th and 1/4 scale. Racing set every month in advance every Saturday and Sunday. Rt. 1 Box 324, Linden NC, 28356 - (919) 488-5408.

#### **C.O.R.R.**

We race outdoor electric off-road 1/10 scale cars. The track has a hobby shop, snack bar, AC power, and an auto count. There's even room for RV's! For the latest schedule call (704) 827-7741 or 435-2912. You can write to us at 166 Griffen St., Stanley, NC 28164.

### **NORTH DAKOTA**

#### **NORTHERN MINI-RACERS**

1/10 Scale on-road, carpet, road racing. Saturdays Sept. through May. P. O. Box 415, Minot, North Dakota. For information call Pat (701) 839-8868 or (701) 852-6254. Roger (701) 839-4731 or (701) 839-5294.

#### **KOUNTRY KLIN HOBBY**

1/12 Scale small indoor carpet track & hobby store. Box 247, 324 Railroad Ave., N. Mohall, ND 58761, (701) 756-6307.

#### **RED RIVER RADION CONTROL CAR CLUB (RRRCCC)**

This operation is actually two tracks located in the Fargo and Moorhead area. The first is a carpet oval track in the Holiday Mall (I-94 and 8th St., S. Moorhead, MN 56560). The second facility is in Johnson Park (I-75 and 12th Ave. N., in Moorhead MN). This track is for off-road. The club sponsor is Valley Hobbies in Fargo. For more information please call (800) 493-9971.

### **OHIO**

#### **TARCAR-TOLEDO AREA**

1/8 gas stock cars. Black clay tri-oval. Sundays late April thru Mid-October.

For more info call Dave Scanes, (419) 893-1916.

#### **1/8 RACERS OF TOLEDO**

1/8 & 1/10 scale asphalt road course. Every other Sunday from Mid-April to Mid-October at the Woodville Mall rear lot. For schedule and info contact Brent Gottfried (419) 843-3231.

#### **THE RACER'S CHOICE - RADIO CONTROL HOBBIES**

Located at 1298 U.S. Rt. 42, Mason OH 45040. Large outdoor off-road track, over 400' long with 100' straight, elevation changes, jumps, moguls and banks. Lighted with large driver's stand. Also banked 40' - 100' oval. Organized racing weekly. Fully stocked shop, for details and schedule call Holly, Tony or Adrian at (513) 398-5539. Track located just north of Cincinnati, near Kings Island.

#### **CORCAR - COLUMBUS, OH**

Outdoor 10th scale off-road racing May through September and indoor off-road racing October through April. Contact Bill McCall at (614) 895-2732. The track is at Franklin County Fairgrounds.

#### **ALCAR INTER. R/C RACEWAY**

1/10 Scale off-road Friday nights. 1/12 & 1/10 carpet Sundays. 33501-A Lake Rd., Avon Lake, OH 44012, (216) 933-6017.

#### **ALTERNATIVE RACING ASSOCIATION**

1/10 and 1/12 on-road. Two large tracks indoors and outdoors. 2600 17th SE, Canton, OH 47306 (216) 484-2587.

#### **INNOVATIVE HOBBIES & LAKES SPEEDWAY**

Large indoor multi-layout carpet track and outdoor oval. Racing Wed., Sat., Sun. 3425 Manchester Rd., Akron, OH 44319, (216) 645-1333.

#### **AEROTECH RACEWAY**

1/10 oval/tri-oval and off-road dirt. 409 Applegrove Rd. North Canton, OH. Call Ron at (216) 499-1300.

#### **MODELER'S HAVEN RACEWAY**

1/10 clay oval May thru October. Electricity, water, indoor restrooms and shaded pit area. Contact Bob at (216) 499-6000. 4255 Portage N.W. North Canton, OH 44720.

#### **MID OHIO R/C RACEWAY**

We race 1/10 off-road and dirt oval all indoors. There is a 300 foot oval track with the off-road track built inside of that. In addition to that, we have scale 1/4 mile slot car drag races. Call Bob at (513) 233-2807 for more information. Track is in Huber Heights, Ohio.

#### **D & S HOBBIES AND RACEWAY**

Racing 1/10 & 1/12 4-cell. Race days are Wed., Fri. and Sun. Closed Mondays. D & S Hobbies, 7701 Crile Rd. #3, Concord, OH 44077.

#### **HOBBY MANIA**

This complete facility has racing for 1/12, 1/10 and 1/8 cars. Gas and electric classes can race on-road, off-road and on a stadium carpet track. We have a complete hobby shop, snack bar, AC power and there's RV access. Scoring is done via an auto-count system. We are located at 6597 State Rte. 224, Lowellville, OH 44436. Phone us at (216) 536-8282.

#### **LEWISBURG R/C RACEWAY**

One of the largest indoor R/C facilities in the U.S. at 18,000 square feet. We have a 200' smooth clay banked oval track and are currently constructing a 90 X 45 banked concrete oval track. For more information call us at (513) 678-9201. Track is at 395 Route 40 West, Lewisburg, OH 45338.

#### **D & J R/C RACEWAY**

Racing for 1/10 electric cars on an outdoor dirt oval. The facility features a hobby shop, snack bar and there is AC power. For the latest racing schedule call (216) 682-4266, or write to them at: 801 W. Market St., Orrville, OH 44667.

### **OKLAHOMA**

#### **R.C.A.R. OF TULSA**

Racing for 1/10 scale indoor on-road racing. The track is carpet, and there is AC power. Track is at 12215 East Skelly, in Tulsa, OK 74128. For more info call (918) 663-8998.

#### **RCRC OF OKLAHOMA**

1/10th scale indoor dirt oval and dirt off-road. Racing on this large track is at 7 p.m. Tuesdays and 5 p.m. Saturdays. Complete hobby shop with plenty of pit space and AC power. 400 S. Vermont, #104, Oklahoma, OK 73108. Call (405) 947-RACE ask for Steve or Rick.

**OREGON**

**R/C SPEED CENTER R/C ADDICTION**

1/10 & 1/12 scale, banked dirt oval racing, dirt off-road racing, sled pulls, mudbog. 2810 N. Pacific Hwy., Medford, OR 97501, Call Gene or Betty Skelton, (503) 779-8298.

**PENNSYLVANIA**

**CARCLUB-COCHRANTON AREA**

Racing every Fri. at 6; Sat. 9 a.m.; Sun. at noon. Indoor carpet-dirt outdoor. Contact Harry, 120 W. Adams St., Cochranton, PA 16314. (814) 524-7788.

**CEB MOTORS R/C DIVISION**

This indoor facility races 1/12 and 1/10 electric cars. Racing is for both oval and road course designed cars. The track features a hobby shop, snack bar, AC power, auto score and the parking lot can handle RV's. Call us at (717) 375-4635, or stop by at 5743 Molly Pitcher Hwy., Marion,

**C.A.R. CLUB**

Racing every Sunday. Tamarack Raceways, Contact Harry Turner, 120 W. Adams St., Cochranton, PA 16314, (814) 524-7788.

**WAGONHILL HOBBIES**

Indoor 1/10 & 1/12 road racing every Fri. night. Off-road every Sat. night. 225 S. Board St., Grove City, PA (412) 458-4711.

**TC'S R/C'S**

Inside and outside race track and RC Shop. 1537 Freeport Rd., Natrona Heights, PA 15065, Call 226-8802.

**PHILLY RADIO CONTROLLED RACERS R/C CAR CLUB**

1/10 on-road paved track. Sundays, April thru November 11 a.m. 7790 Dungan Rd., N.E. Philadelphia. Jon (215) 224-4822 or Bernie (215) 831-1835.

**EAST ST. RACEWAY AND ART CENTER**

Over 4,000 Sq. foot carpet track. Computerized lap counting. Racing starts at 7 p.m. each night. Friday oval racing; Saturday stadium off-road. Located at 747 E. Railroad Ave., Verona, PA 15147 - (412) 826-0602.

**MUSHROOM BOWL SPEEDWAY**

This outdoor 305' paved banked tri-oval features organized 1/10 and 1/12 car and truck racing on Thursdays and Saturdays at 7:00 PM, June through October. On-site hobby shop, indoor pits with AC power and scoring is computerized. For information or directions call (610) 444-1850. We are at

812 West Cypress Avenue, Kennett Square, PA 19348.

**SOUTH CAROLINA**

**BNS COMPETITION HOBBIES**

Contact Bob Sanford, (803) 224-8591. Route 7, Box 380, Anderson, SC 29624. Racing and open practice Wed. 6:30 p.m. Every Saturday 1 p.m. 1/10 Dirt Oval.

**RACER'S CHOICE**

On-road racing for 1/10 and 1/12 scale is at this track. Racing is done indoors, on carpet. The facility has a hobby shop, snack bar, AC power and auto count system for scoring. There is also RTV Access. The track is located at 4020 Fernandina Rd., Columbia, SC 29210. For a schedule of races call (803) 561-0000.

**BEREA R/C SPEEDWAY**

Fri. Nights 1/10 conc., banked oval; Sat. nights stadium off-road for trucks and buggies; Sunday unlimited oval; 707 Sulphur Springs Rd., Greenville, SC 29610. (803) 246-4702.

**TENNESSEE**

**HITT'S HOBBY & RACEWAY**

Tuesday Oval; Thursday Off-Road Stock; Saturdays Off-Road Novice; Sundays Off-Road Modified; Oval and Off-Road. 853 Wren Rd., Goodlettsville, TN 37072. Ben or Kent (615) 859-3465.

**MSA R/C RACING**

Racing for 1/10 and 1/8 cars, in both gas and electric versions. At this track a racer can find competition for on-road, off-road, dirt oval and paved oval. There's tracks both indoors and out, and the facility features a hobby shop, snack bar, AC power and scoring is done with an auto count system. Call them for the latest racing schedule at (615) 456-0027. They're located at Rt. 12 Box 489B, Crossville, TN 38555.

**TEXAS**

**HAL'S R/C RACEWAY**

Sat. is on-road asphalt 1/10. Sun. is off-road. Registration both days is at 11:00

# Attention Race Facilities!

*Advertise your club or track in Competition Plus free of charge!  
Simply mail in or fax the vitals of your track and we'll publish it  
in the next available issue. Use the handy form below.*

TRACK/CLUB NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE ( ) \_\_\_\_\_

*Note: Use this form to also notify us of tracks that may have closed in your area that we may not know about yet.*

(circle all that are applicable)

- |          |            |            |
|----------|------------|------------|
| 1/12     | OFF-ROAD   | ASPHALT    |
| 1/10     | DIRT OVAL  | DIRT       |
| 1/8      | PAVED OVAL | HOBBY SHOP |
| 1/4      | DRAG       | SNACK BAR  |
| GAS      | INDOOR     | AC POWER   |
| ELECTRIC | OUTDOOR    | AUTO COUNT |
| ON-ROAD  | CARPET     | RV ACCESS  |

a.m. 1440 Bessemer, El Paso, TX 79936 (915) 591-2213.

#### **RIVER CITY RACEWAY**

On Quincy Road, Wichita Falls, TX. Every 2nd & 4th Sundays at Noon. Call (817) 691-1478.

#### **ARROW HOBBIES**

Wed. - 1/10; Every other Friday 1/8 Sprint cars only; Saturdays 1/10 dirt oval. 2710 So. 1-35 West, Burleson, TX, (817) 295-2821.

#### **VICTORIA HOBBY SHOP**

Every Sat. Off-Road; Every Sunday - Ovals. 5211 John Stockbauer, Victoria, TX 77904, (512) 575-3270.

#### **COASTAL BEND SANDBLASTERS R/C CAR CLUB**

Races first thru third Sundays, 2 p.m. start. Bill Witt Park, Yorktown Road, Corpus Christi, TX. Call Pete (512) 992-4448.

#### **AMERICAN ANGLER TACKLE & R/C**

#### **HOBBY CENTER'S "AA" RACEWAY**

Two dirt tracks, oval & off-road. Races every Sunday, 1 p.m. Tracks alternated. Races every Saturday 11 a.m. oval. Hobby shop on site. 1617 Toomey Rd., Austin, TX 78704, (512) 474-8277.

#### **WESTSIDE HOBBIES**

1/10 Racing every Sat. 1/10 on-road racing every Sun. on asphalt. Alternating oval and road course. 7214-A N. Mesa, El Paso, TX 79912. Call Tom, Mark or Tim at (915) 585-1864.

#### **FINISH LINE HOBBY & RACEWAY**

1/10 scale indoor off-road every Fri. and Sat. 8:00 p.m. 1/12 indoor carpet every Tue. 7:00 p.m. 11925 Jones Maltsberger, San Antonio, TX 78216. Call (512) 491-0088 for more information.

#### **T & T EAGLE HOBBY**

Headquarters for the "Killer Dillers" R/C Club, racing is on the first and third Sunday in front of the store. The first Sunday is road course and the third is oval. Emphasis is on fun racing. Trophies for novice class only, entry \$5.

#### **HURRICANE SPEEDWAY**

Racing Wed., Fri., Sat., Sun., alternating off-road and oval. Track is at 9600B Old Katy Rd., Houston, TX 77055. (713) 464-8020.

#### **RC STARS RACEWAY**

Racing for 1/10 gas and electric cars on their outdoor, dirt off-road track. They also have a hobby shop and for food there is a Pizza Hut right there. To ensure accurate scoring they use an auto count system. The track also allows free use of the track to all. Track is at Hwy. 100 in Port Isabel, TX 78597. Phone them at (210) 943-7546.

#### **RIVERCITY SPEEDWAY**

Both gas and electric 1/12 and 1/10 cars can race at this track. The off-road and paved oval tracks are located outdoors, and there is A/C power. The track is located at 11731 Wetmore Rd., San Antonio, TX 78247. For the latest racing information call (210) 341-5625.

### **UTAH**

#### **I.R.C.D.R.A./HOBBY EXPRESS**

Race indoor off-road every Saturday at 6 p.m. 3150 Brinker, Ogden, UT info call Hobby Express (801) 621-4013.

#### **WASATCH OFF-ROAD RACEWAY**

Operated by IRCRA. Races are indoor on an off-road and oval raceway. Races every Saturday at 6:00 p.m. Track at 3170 Brinker Ave., Ogden, UT 84401. Phone is (801) 773-0933.

### **VERMONT**

#### **MIKES HOBBIES & RACEWAY**

Indoor banked 1/10 carpeted oval, on-road racing. Six classes every Wed. at 7:00 p.m. and Sun. at 1:00 p.m. Track at 162 N. Main St., Rutland, VT 05701 - (802) 775-0059. Ask for Lee or Chuck.

### **VIRGINIA**

#### **F/X CITY RACEWAY**

Every Saturday 1 p.m. The Frame Gallery, 13340 F Franklyn Farm Road, Hemdon, VA 22071. For info call Eric (703) 471-4499.

#### **WINNERS CIRCLE HOBBY SHOP & RACEWAY**

Racing every Saturday night at 6 p.m. Large oval carpet. 3236 W. Clay St., Richmond, VA 23230 (804) 355-7076.

#### **COOPER'S RC RACE CENTER**

Racing indoor every Saturday night. Racing every Sunday 2 p.m. oval and off-road - June through October. Contact Norris (804) 724-4182. Rt. 4, Box 122B, Chatham, VA 24531.

#### **FAIRSTONE R/C SPEEDWAY**

Dirt 1/10 scale 1/4 mile oval & figure eight racing every Thur. and Sat. eves. through Halloween. Hobby shop, concession stand. Rt. 4 Box 918, State Rd. 635, Stuart, VA 24171. Phone (703) 930-3984.

#### **HOBBY HANGAR SPEEDWAY**

Those coming to this track can race 1/12 and 1/10 cars in both gas and electric powered versions. There's racing on carpet and dirt, for road and off-road racing. The facility boasts a hobby shop, snack bar, AC power and uses an auto count scoring system. Hobby hanger is at 4433A Brookfield Corp. Dr., Chantilly, VA 22021. Call (703) 631-8820.

### **WASHINGTON**

#### **SPOKANE INDOOR RACEWAY**

A 10,000 sq. ft. facility with carpeted on-road track & indoor dirt off-road. Large indoor pit area, computer scoring (AMB), full parts shop. Located at E. 6422 2nd Ave., Spokane, WA 99212. (509) 534-RACE.

### **WEST VIRGINIA**

#### **WEST VIRGINIA REMOTE CONTROL RACEWAY**

Racing every Sunday. Doors open at 12 noon, racing starts at 1 p.m. The track size is a 90 X 50 foot carpet oval. Prizes in all "A" mains. Track is at 601 Jefferson Rd., South Charleston, WV 25309. Call Russell Pauley (304) 346-7223 after 6 p.m.

#### **R/C RACE PLACE**

Racing on-road every Wed. night at 7:00 p.m. and carpet oval every Fri. night at 7:00 p.m. during the winter months. Racing outside for dirt oval every Wed. Fri. nights on lighted 260 foot track during the summer months. Full hobby shop. Contact Mike or Dennis at (304) 292-0811.

#### **WEST VIRGINIA R/C CAR ASSOCIATION**

This off-road outdoor track has racing for 1/10 and 1/8 gas and electric cars. There is A/C power, and you should call for the schedule at (304) 842-2742. They are located at 142 West Main St., Bridgeport, WV 26330.

### **WISCONSIN**

#### **MADISON AREA R/C CAR ASSOCIATION, INC.**

Dirt Oval on Sun. Carpet road racing on Sat. Carpet oval on 1st and 3rd Fri. Track is at 1810 S. Park St., Madison, WI. Call 273-0519 or 837-2033

#### **J. G. S.**

Wisconsin's finest off-road race track. Groomed 100 ft. straightaway, computer scoring, driver's stand, starting lights. Racing every other Sunday 1 p.m. Menomonee Falls, WI (414) 255-2040.

#### **SIN'S TRACKSIDE HOBBIES & RACEWAY**

Racing for 1/12 and 1/10 gas and electric cars in many scales including on road, off-road and oval, both indoors and out. There is also a hobby shop, snack bar, AC power, RV access and scoring is done with an auto-count system. Track is at 6045 N. Green Bay Ave., Glendale, WI 53209. Phone for the latest schedule at (414) 351-1910.

#### **ABC R/C**

Clay track racing every Sat. 1 p.m. Truck pulls every Tuesday 6:30 p.m. 1441 B E. Main Street, Waukesha, WI 53186, (414) 542-1245.

#### **ALL IN 1 RACEWAY**

5612 S. 108th St., Hales Corners, WI. 1/10 scale indoor dirt track. High speed semi-oval and true off-road courses. Racing Wednesday nights at 6 p.m. Sat. & Sun. at 1 p.m. For more info call (414) 425-4060.

#### **GARY'S HOBBY SHOP**

Indoor banked concrete oval racing Tue. nights. Figure "8" Sun. afternoon. On site hobby shop with AC & DC power. For latest information call (414) 554-8884 or (414)554-8636. Address is 3701 Durand Ave., Elmwood Plaza, Racine, WI 53405.

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# For The Racer

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## TEAM KINWALD R/C DIRTY TRICKS MODIFIEDS

The Only Authorized Brian Kinwald Motor - IFMAR World Champion, Brian Kinwald is kicking off his own product line with 5 all new modified motors designed especially for off-road racing. Brian's favorite winds are used in an all new "Epic/Kinwald" motor set-up that features the following;

- 1.3mm can for better magnetic field.
- Redesigned air vents on the back of can to increase cooling.
- Uni-flow endbell increases air flow around brushes
- EX.5.0 Wet Pressed magnets.

The Team Kinwald modified motors have been designed to produce the best power curves for all types of off-road racing. Because of their thicker motor can and the Ex-Tech magnets, torque and speed are increased, without imposing increased drain on the batteries. As a result of the magnet/can efficiency, motor life has been improved and rebuilds are now not needed as often.

Brian has selected 5 winds he feels will cover everything from dirt oval (11 turns) to 2WD off-road, (15 turns).

### *Part Number & Price:*

TK1011 Kinwald 11 Turn Triple  
\$85.00

TK1012 Kinwald 12 Turn Double  
\$85.00

TK1013 Kinwald 13 Turn Single \$85.00; TK1014 Kinwald 14 Turn Double \$85.00; TK1015 Kinwald 15 Turn Triple \$85.00. Trinity Products, Inc., 1901 E. Linden Avenue, #8, Linden, NJ 07036, (908) 862-1705, Fax (908) 862-6875.



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## SOMETHING OLD MAY BE SOMETHING NEW FROM KIMBROUGH

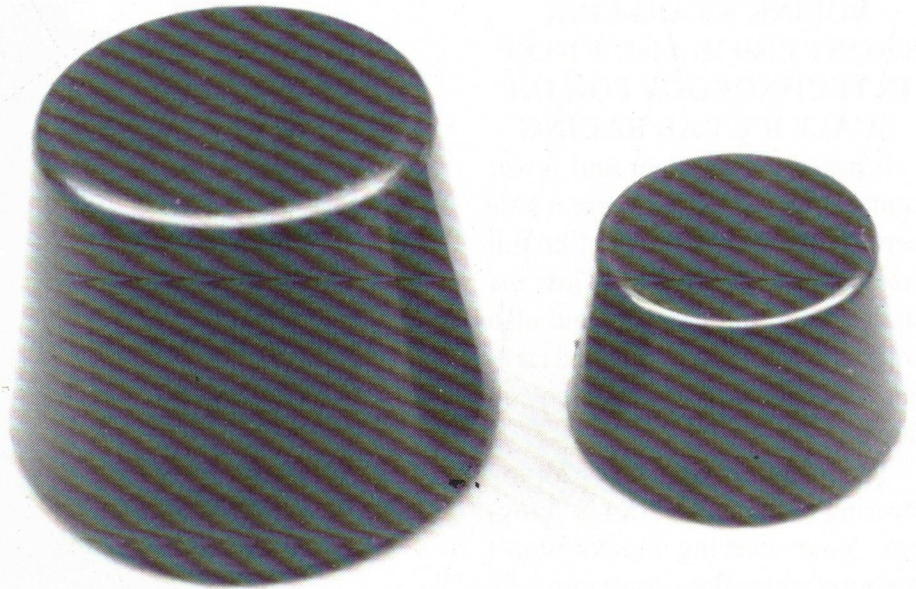
Although these are not a new product, (we have been making them for over fifteen years) there are several new generations of racers that may never have heard about them.

Kimrough Products Tire Horns for R/C car tires, they do the same job as a shoe horn does for shoes. They stretch the foam rubber tire donuts over wheels and make mounting and gluing road racing tires an easy job. The Tire Horns are a molded blunt cone shaped plastic, that is resistant to most solvents.

Instructions for preparing wheels, mounting and gluing tires are included in the package.

Part #104 for 1/10 & 1/8 scale wheels

Part #105 for 1/12 scale wheels. Kimrough Products, 1322 Bell Avenue, Unit 1-C, Tustin, CA 92680, Fax (714) 258-7426.



## DAHM'S NEW SPICE

Long Tail (Gas Version) is the body you've been waiting for! This exciting new Spice Long Tail is specifically designed to improve handling on 10th scale gas cars like the Serpent Impact, Delta and BMT 931. The low, wide racing profile provides the maximum downforce for these high speed, gas powered race cars. An optional adjustable

rear spoiler is included for even greater downforce. Spice WSC also offers maximum engine cooling and gas tank access.

This new Spice is not only the best fitting body for the Serpent Impact, Delta and BMT 931, it is also one of the best looking! Dahm's Spice features beautiful styling and very realistic detailing - a perfect choice for concours events! A driver figure - NO. D030 is available separately for concours and racing events that require driver figures.

This hot body is also available for electric cars. Spice WSC No. D025 offers all the same great benefits and features of the Spice WSC gas version, but is designed to fit 10th scale electric on-road cars like the Associated RC10L, Evolution 10 and most others.

Dahm's Spice WSC is formed from strong, lightweight .030 G.E. Lexan. Get this great body now at your local hobby shop!

For more information, call Dahm's at 707-792-1316, or fax us at 707-792-0137. Dahminate the competition with Dahm's new Spice WSC! Send \$2.00 for Dahm's latest catalog to:

Dahm's, P.O. Box 360, Cotati, California 94931-0360 USA

**BOLINK'S VARI-LINK  
FRONT END IS A NEW STEP  
IN TECHNOLOGY FOR 1/10  
SCALE R/C CAR RACING**

It has moving upper and lower control arms for more correct suspension travel, very much like full size race cars. You can adjust the static caster and camber, and also adjust the amount of caster and camber CHANGE as the suspension moves.

The Vari-Link will work with any steering block that fits a 1/8" kingpin. Your steering blocks won't wear out, since they don't move on the kingpin. The ride height of the car can be changed by moving spacers above and below the steering block on the kingpin.

The A-arms are mounted entirely in rubber bushings for long wear, smooth suspension movement and a little bit of "give" that's needed in hard impacts with other cars (or track walls).

BoLINK's LTO Pro, #BL-1385, now includes the Vari-Link front end.

The Vari-Link Front End is available with an adapter plate to mount it directly onto the 10L SS, Trinity EV-10 and others with the 10L front end bolt pattern.

BL-5209 \$49.95 Vari-Link Front End for BoLINK's LTO Pro Cars.

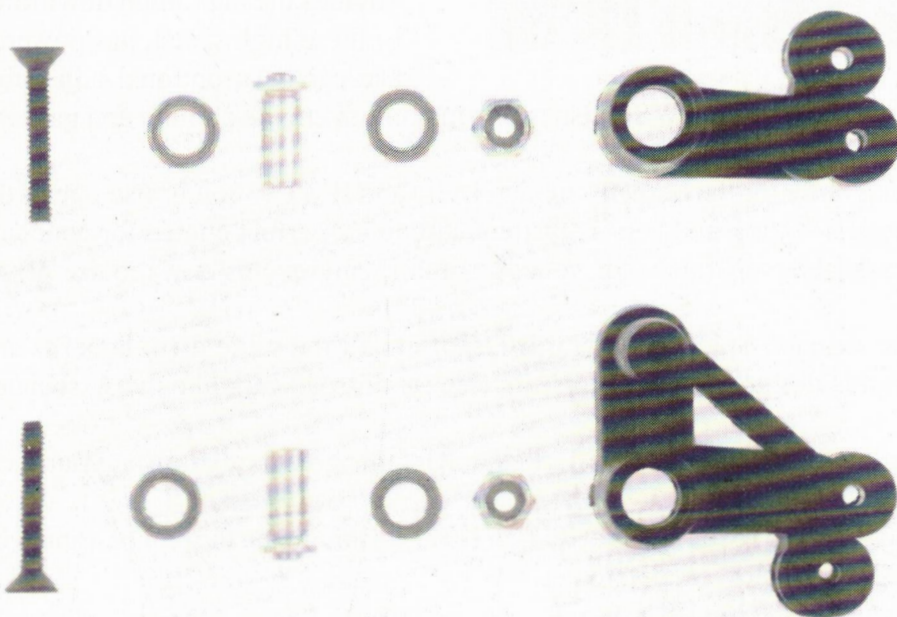
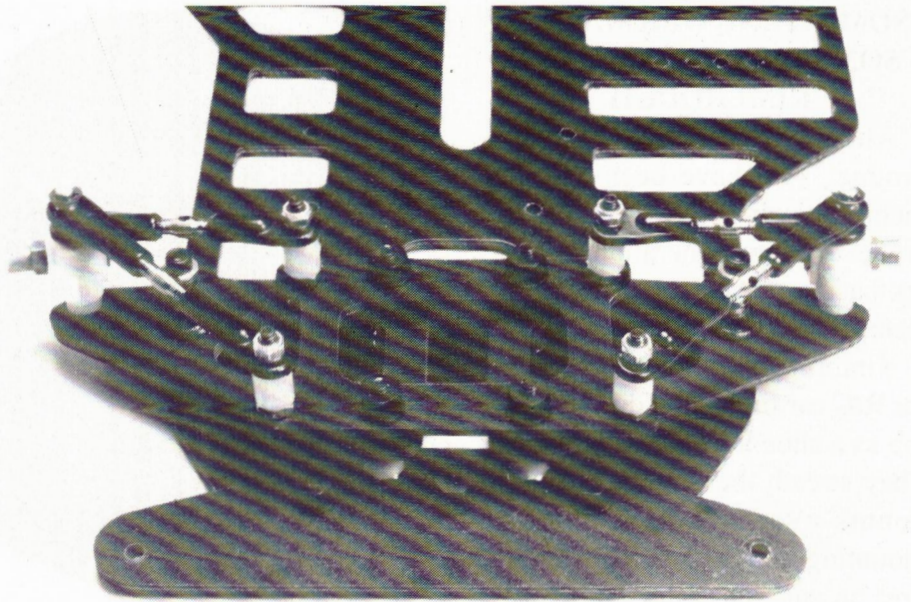
BL-5210 \$49.95 Vari-Link Front End for BoLINK's Road Pro Cars.

BL-5211 \$59.95 Vari-Link Front End for 10L SS, Trinity EV-10 and other cars that use 10L front end bolt pattern.

Includes adapter plate to bolt it on.

For our complete Catalog, send \$3 to:

BoLINK R/C Cars, 420 Hosea Rd., Lawrenceville, GA 30245 - Phone (404) 963-0252 - Fax (404) 963-7334



**MIP'S ZERO MAINTENANCE  
STEERING FOR RC10GT**

Eliminate side play and bump steer with ease. MIP steering kits are stronger, smoother and last longer than any others. Manufactured of virgin glass filled nylon, with teflon sealed ball bearings, the MIP steering kit is a direct stock replacement.

#3013 MIP Zero Maintenance Steering for RC10GT \$24.95.

MIP, 746 East Edna Place, Covina, CA 91723, (818) 339-9007 - FAX (818) 966-2901.



### TAMIYA KEEPS ON TRUCKIN' WITH NEW ADDITIONS TO POPULAR 1:14 SCALE, "BIG RIG" R/C SERIES

Two new models join the "big rig" convoy on Tamiya's super highway of scale realism. This highly detailed, new Globe Liner, is a flat-nosed cabover semi-truck with sleeper. Like the classic King Hauler, its body shell is made of injection-molded plastic, accented by metal-plated parts which include front grill, bumper, air cleaners, windshield visor, air horns and side steps as well as metal dual exhaust pipes.

The King Hauler's ladder type frame/chassis has been shortened to fit the Globe Liner's cabover body. Aluminum channel side members and engineering plastic cross members provide both lightweight and durability. There are rubber-like mud flaps, a remote release for the "fifth wheel," and a trailer hitch that's compatible with both the semi and tanker type Tamiya trailers. The Globe Liner is further authenticated with a working, scale-accurate leaf spring suspension; coil spring shocks front and rear; a die-cast metal cross beam front axle and solid double rear axles. Powered by an RX540 type motor, it has a universal shaft, propeller driven axle type drive train with working differentials. The easy-to-assemble, three-speed transmission has constant mesh gears for smooth shifting on-the-fly in forward or reverse with mid-mounted, shift rod-operated dog clutches. The fully detailed interior features high-back bucket seats, dashboard instrumentation and steering wheel. Chrome plated, one-piece wheels mount ten synthetic rubber tires — singles in front; duals in the rear, all with realistic tread pattern.

Tamiya's new 1:14 scale cab measures 19.7" long

by 7.2" wide by 10.3" high. It has a 14.1" wheelbase, a 6.1" front track and 5.4" rear track. The model weighs 5.7 pounds, fully equipped. R/C requirements include a Ni-Cd 7.2V pack battery and an electronic speed control with proportional forward and reverse. A 4-channel, 3-servo unit is recommended for use with the rig's 3-speed transmission. A 2-channel radio, however, can be used if the vehicle is fixed in one gear range.

A new 32" long, oval shaped stainless steel Tanker Trailer, #56303, is also available. It features an anodized, scratch-resistant aluminum upper deck walkway and lower mounts; metal casings and drainage pipes; plus a metal-plated rear ladder. Like Tamiya's semi-type trailer, it's equipped with functional leaf spring suspension, scale spring shocks, metal plated wheels, eight synthetic rubber tires and realistic tread pattern, a black aluminum chassis and rubber-like mud flaps. California and Nevada license plate decals are included as well as colorful "Shell" markings.

These accessories fuel the add-on realism that was started by Tamiya's Rig Light Set, #56501, which includes roof lights, headlights, turn lights, brake lights, and hazard lights, plus an audible back-up alarm that sounds when the rigs are driven in reverse. A single circuit board, which is powered by the truck's main battery, electrifies both the cab and trailer. The unit installs easily inside the sleeper car and comes complete with a circuit breaker to protect against shorts.

Tamiya America, Inc., 2 Orion, Aliso Viejo, CA 92656-4200 - 714-362-2240



# NOBODY KNOWS GAS

A lot of people would like you to think they created the whole concept of RC gas racing.

But with over 25 years of experience racing RC gas cars and winning two IFMAR Gas World Championships, Team Associated knows gas racing. That's why the

Team built the RC10GT.

Our RC10GT is the real thing, designed and engineered by the same racers that brought you the original RC10 and the RC10T.

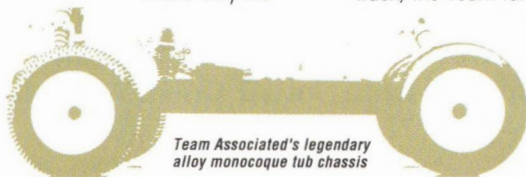
While it might be enough for some to simply drop an engine and a fuel tank into an electric truck, the Team takes this kind of



IFMAR World Champion factory drivers Brian Kinwald and Cliff Left teamed with Curtis Husting in designing, track testing and racing our RC10GT prototypes.

The most advanced, high performance vehicle of its kind, the RC10GT features competition proven, four wheel suspension with precision, coil-over shock dampening. Our World Famous Team Associated Stealth ATC gearbox is also adapted to the RC10GT, to get all that nitro power to the ground and our race-ready disc brake gets it all slowed down in a hurry. And like all our kits, hardware and materials are nothing but the best. And because Team Associated understands RC racers, and their

powertrain transfusion seriously. The RC10GT is a completely integrated package created to take maximum advantage of gas power yet versatile enough to accommodate all popular .12 and .15 size engines.



Team Associated's legendary alloy monocoque tub chassis

The RC10GT is based on our Championship RC10T Team Truck.



# RACING LIKE THE TEAM.

budgets, the RC10GT is available with either bushings or ball bearings and for both pull and non-pull start engines.

Enjoy the sound and power that makes gas RC racing come alive. The RC10GT is the ONLY RC gas truck with Team Associated's proven performance and reliability. Because no one knows RC gas racing like the Team.

The RC10GT is available in several Sport and Competition versions for most .12 or .15 engines. We highly recommend the .12 size for scale performance and reliability.



*All terrain tires developed by Pro-Line specifically for the RC10GT*

*Wide track, long throw suspension, molded from dyeable virgin nylon*

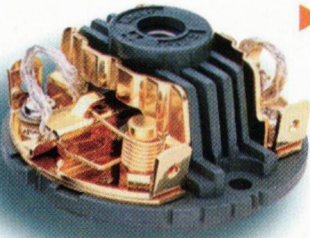


# RC10GT

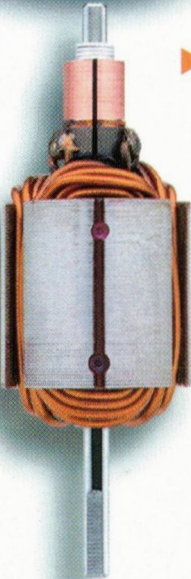
Associated Electrics 3585 Cadillac Avenue, Costa Mesa, CA 92626

# "The Fastest Motor I've Ever Run!"

— Brian Kinwald  
Current I.F.M.A.R.  
World Champion



▶ The new "UniFlow"™ endbell, runs cooler and weighs less. The Kinwald ExTech motors feature high performance "Serrated Face"™ motor brushes. Enhanced cooling for the brushes is provided by the sculptured "UniFlow" heatsinks that also carry the index holes for the brush hood alignment pins. These pins provide solid alignment regardless of use or abuse. The hardware removes easily and quickly for switching to a "LayDown"™ brush system.



▶ All ExTech motors incorporate Trinity's Armature Balance Concentrator™, high temperature copper wire and special polyester insulation to maximize performance and motor life. The Kinwald series is available in 5 popular offroad winds:

TK1011 - 11 Turn Triple  
TK1012 - 12 Turn Double  
TK1013 - 13 Turn Single  
TK1014 - 14 Turn Double  
TK1015 - 15 Turn Triple



▶ The new Kinwald ExTech motor features a 1.3 mm thick, (ROAR legal) can that seriously intensifies the motor's magnetic field. Top-of-the-line v5.1 wet magnets provide maximum magnetic strength and life. Motor cooling is maximized by "air tunnels"

that draw hot air out of the motor. This method of venting preserves the magnetic field integrity, increases motor life and delivers superior performance.



Brian Kinwald became the I.F.M.A.R. Offroad World Champion through determination, talent and a lot of hard work. His total dedication to RC Racing took him to the top of the offroad world. It took Trinity to build a motor good enough to be called Kinwald.

"This is the ONLY motor officially authorized to use my name. Beware of imitations!"

*Brian Kinwald*

# TRINITY®