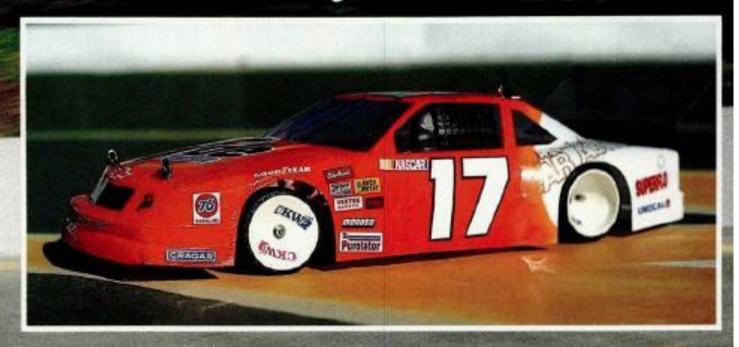


Great Expectations



combination antenna mount/shock pivot, and is then connected to the top of the graphite rear pod with a ball joint.

The rear pod pivots on the T-bar system, its side-to-side movement controlled by two damper plates, one on each side of the motor pod's upper bracket. The pod is offset so that the motor can be located toward the center of the chassis. The 10L is topped by a graphite axle with aluminum hubs, Two ball

manual, I wasn't disappointed. In the photos, the parts were clearly numbered and arrowed, so I was in no danger of going blind trying to find the right ones!

Assembly starts with chassis preparation. To avoid slicing through the shrink wrap of the cells, use a small file or a Dreme! Moto-Tool to round off the rough edges of the battery slots. As an additional precaution, wrap a small amount of electrical tape around the

graphite between
each slot. Any tear in
the shrink wrap could
cause a short because graphite can
conduct electricity.
Also, to prevent the
strapping tape from
being cut, file the
edges of the chassis
where the tape will



bearings and three thrust bearings provide smooth differential operation.

ASSEMBLY: I've owned an RC10 for two years, and I've built manyAssociated kits for other people, so I've come to expect a well-organized assembly process spearheaded by a clear, concise manual with well-executed photographs. When I opened this kit's

I made a modification to the chassis that you may want to consider if you go oval racing. While there's much debate about the need to offset the batteries on the inside of the car, I had a more practical reason for running my batteries along my car's left side: all my packs were in stick configuration! There's no way to run the packs across

ASSOCIATED

RCTOL
Type On-road Scale //o Sug. Retail Price \$235
DIMENSIONS: 20 inches Overall Length 20 inches Width 9.25 inches Height 5 inches Wheelbase 10.25 inches Front Track 7 inches Rear Track 7.25 inches
WEIGHT: Gross w/bat.)44 ounces
BODY: Type
CHASSIS: TypePar MaterialGraphite
DRIVE TRAIN: Primary Pinion/sput Transmission Direct drive Differential Ball Bearings Ball bearings
SUSPENSION: Front: Type
WHEELS: Front: TypeOne-piece nylor Dimensions (DxW)1.8x1.125 inches
Rear: TypeOne-piece nylor Dimensions (DxW) 1.8x2 inches
TIRES: Front/RearFoan

ELECTRICS: Battery 6- or 7-cell* Speed Controller Electronic*

OPTIONS AS TESTED:

Futaba Magnum JR radio; Novak T1X electronic speed controller; Reedy Modified Yellow Dot motor and 6-cell SCE Team pack; Associated Chevy Lumina; Scale Racing Products center-point steering; JG Mfg. foam tires, body posts, and graphite lower pod brace; CKW cap tires.

COMMENTS:

The RC10L worked right off the work table. It can be placed anywhere on the track, and it almost broke the track record on its first time out. The car stays very consistent from track to track, without needing adjustment. I hope the broken T-bars and axle were due to a tough track. Overall, a good value/performance ratio.

* not included



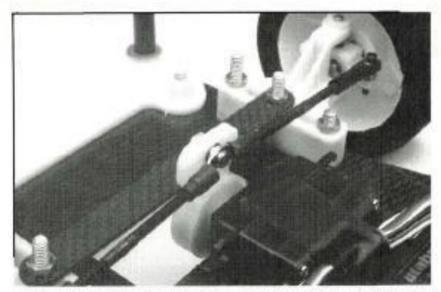
the chassis, so I enlarged the small slot for the strapping tape (toward the front of the chassis) to the size of a battery cell. This allowed me to have all six cells on one side of the chassis. I cut a new slot to allow me to tape the batteries into place.

The front end is installed next. You have a choice of two bumpers: the large one is for the wide GTP or Can-Am bodies, and the smaller one is for stock Cars

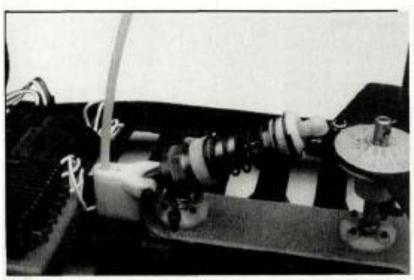
I was extremely disappointed to find that the 10L uses E-clips to hold the wheels onto the front axles. I've seen Eclips fail too many times to trust a race to them. I substituted Bolink* front axles, which are threaded on the end and use locknuts to keep the wheels on. It's been said that I can "drive the wheels d a car," but I don't want to take this liter ally.

The front end is finished with toughlooking suspension arms that offer support to the top and bottom of the kingpin. No snapped kingpins on this car! The kingpins didn't need polishing to get a smooth up-and-down movement i conjunction with the small coil springs.

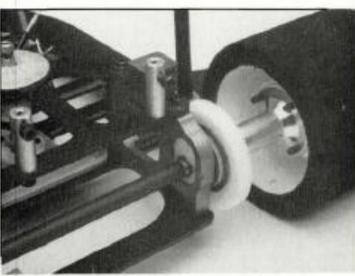
Each suspension arm is mounted to the chassis with three, long, aluminum screws. A nylon spacer goes between the chassis and the arm, along with a 2degree caster wedge if needed. (Associ-



Beefy, center-point steering replaced the stock linkages. To clear the linkages, the bolts had to be cut. You won't have to do this if the front ride height isn't changed.



The fiberglass T-bar pivots on two rocker balls. Tweak screws, located next to the front rocker ball, are easily accessible.



The Litespred Litesink, a bolt-on accessory, replaces the stock motor mount. The ride-height adjusters are set to give maximum ground clearance for humpy tracks.

ated recommends that you start without any caster.)

Construction continues with the rear of the car—the assembly of the T-bar and rocker balls, and their installation on the chassis. There are a couple of things to watch for in these sections:

- Don't overtighten the screws on the rocker balls, or you'll inhibit the T-bar's movement.
- The instructions' "Racers' Tips" recommends that you CA two pieces of brass shim stock where the tweak screws make contact with the chassis. Otherwise, the screws may bore into the chassis, changing the critical tweak setting.
- The aluminum tube that's the pivot point for the T-bar and dampener plates must be securely tightened on the screw that comes up through the chassis and Tbar. Although I used thread-locking

compound, there was no way to tighten the tube without crushing it, I drilled a small hole through the top of the tube and inserted a small Allen wrench. This allowed me to really tighten the tube onto the screw and prevent it from vibrating loose.

The rear pod goes together quite easily. Although the right-hand motor bulkhead is aluminum, I wanted to get more cooling for the motor, so I used a Litespeed* Litesink, which is a bolt-on part. The Litesink's big fins become warm during use, helping to dissipate heat more effectively.

Some have reported a problem with the aluminum lower brace, which can bend on bumpy tracks, throw the



A Yellow-Dot modified motor and a 6-cell SCE Team Pack, both from Reedy, powered the RCIOL. A Sassy Chassis motor spacer kept the proper distance between the motor pinion and the spur gear.

A hole was drilled so that the post can be tightened more securely. The post had a tendency to vibrate loose before this modification was made.

"tweak" way off and cause alignment problems for the rear axle. To eliminate this, JG Manufacturing* has introduced a graphite lower brace, which definitely won't bend.

Assembly continues with the graphite axle and diff; building and mounting the oil-filled, coil-over shock; and mounting the radio gear. These steps go according to the instructions.

(Continued on page 139)

ASSUCIATED RC10L

(Continued from page 13)

For smooth differential operation, I used diff balls and silicone lube from Bud's Racing Products*, and Hyperring diff rings from Hyperdrive*. To lube the diff, I dump the balls into a 35mm film container, squirt in a little silicone lube, close the top and shake the container to coat the balls properly. I then pluck out the slipper diff balls and insert them into the spur.

I use Robinson Racing Products* white, machined, 64-pitch spur gears along with the new machined-steel pinion gears. They're available in a large range of teeth to give an almost infinite number of ratios.

The Hyperrings have a shiny side (for contact with the diff balls) and a rough side, and this precludes the need to glue the rings to the hubs. A Cheetah Racing* diff-centering kit, which has a small plastic spacer with a ridge to fit into the Belleville washer, combines with these products to make a silky-smooth diff, even when it's adjusted tightly!

I wasn't thrilled with the kit's steering links; each side is to use two thin pieces

of piano wire with a locking collar to adjust toe-in and Z-bends at each end. They looked entirely too flimsy. Perhaps the team drivers don't touch the walls, but for the average racer, this setup is inadequate. I chose the center-point steering system from Scale Racing Products*. It has easyto-adjust turnbuckles with eyelets on the servo ends that join at the center hole of the servo-saver.

Associated does include an awesome, spring-loaded Kimbrough* servo-saver that's the same size as those used on 1/4scale cars. There's no way this thing will damage the servo, which is held to the chassis with double-sided servo tape.

To round out the RC10L, Associated sent along a painted Chevy Lumina body that's detailed to look just like Darrell Waltrip's Tide machine. I replaced the stock body posts (which are too short for stock-car bodies) with the new, machined Delrin body posts from JG Manufacturing. They're long enough for the highroofed stock cars and are rock solid, yet flexible, to avoid breaking.

For power, Associated included a 6-cell SCE Team Pack and a Reedy* Yellow Dot modified motor. I used a Sassy Chaspinion on the motor shaft correctly. A Futaba* Magnum Jr. radio system and a Novak* NESC T1X electronic speed ening moment, however, as the graphite controller are used to guide the RC10L.

PERFORMANCE: The track test for the RC10L consisted of three phases. The initial phase took place at RC Speedworld, which is the unofficial "official" test track for the Car Action staff, Located just along Route 7 in Danbury, CT, RC Speedworld is a large, slightly banked, concrete tri-oval, with tight turns offering differ- and also to the high speeds of the Thunent degrees of banking and radii.

Right off my kitchen table, the 10L was spot-on. The soft-compound stock tires time will tell. A titanium axle may be the gave plenty of bite but were worn away after only a few runs. The track's surface was just too abrasive for these gummy winners' circle, so give it a try. tires. I switched to a set of JG Mfg. firm foam tires, which provided ample traction and lasted longer.

Because of some surface bumps, the chassis dragged on the ground in a few spots. To combat this, I removed the spacers under the front-suspension arms, and I installed the axle-height adapter with the bearing toward the chassis. These two changes raised the ride height enough to prevent any further chassis problems. I had to cut the front-suspension screws to allow the front steering rods to have proper movement.

During its first competitions, the 10L was only one section of the track away from beating the track record for most

The second phase of the test took place at Car Action's East-West Shootout at the RC Thunderdrome. Without changing the setup, I ran the car there. Following advice from Team Associated's Kent Clausen, to avoid "hopping," I used some Bud's* silicone lube on the dampener plates of the rear suspension. I noticed that although many cars were occasionally thrown off by bumps, my slightly higher setup was very stable. CKW* rubber-cap tires did the trick for traction, and they

The third, and most frustrating phase, of the test took place at Megatrack in Browns Mills, NJ. I was absolutely "ballistic" on this high-banked concrete trioval. Unfortunately, I broke two T-bars in my qualifiers. I think that I may have overtightened the screws that hold the Tbar to the rear pod; this could have caused the failures. Still, I was able to make and

sis* aluminum motor spacer to space the lead the C-Main at the New Jersey Concrete Oval Championships.

> My two-lap lead vanished in one, sickaxle sheared off at the wheel. I've been told that other 10L owners have also suffered broken axles.

> The RC10L is a great car. It handled perfectly, right off the work table. I was able to put it anywhere on the track and still hold a good line. It held up during many weeks of racing at my home track derdrome. I hope that the car's problems were the result of a tough track, but only answer.

I know that this car will get you to the

*Here are the address of the companies mentioned in this article:

Associated Electrics, Inc., 3585 Cadilloc Ave., Costa Mesa, CA 92626

Dremel, 4915 21st St., Racine, WI 53406.

Bolink R/C Cars, Inc., 420 Hosea Rd., Lawrenceville, GA 30245

Litespeed, P.O. Box 4765, Spokane, WA 99202 IG Manufacturing, P.O. Box 6014, Whittier, CA