**Fig. 180** In Bag #6-7 are 2 Allen screws with cross drilled holes in the heads. Install these in the 2 forward holes in the battery trays, where the arrow is pointing. Do not tighten the screws all the way down, but leave them up about .025 (65mm). Then in the other 2 rear holes install the other 2 regular Allen screws. Do not tighten these all the way either, but leave them up about .080 (2mm). Now, attach the switch to the side of the chassis, as shown, with servo tape. Mount the switch down low so the toggle doesn’t hit the body.

**Fig. 180**

**Fig. 181** There should be enough room to mount the receiver between the servo and battery trays, as shown. Put about 4 layers of servo tape on the bottom of the receiver and stick it to the chassis. If you have a bigger servo or receiver, stand the receiver on its side and mount it.

**Fig. 181**

**Fig. 182** Install the wire plug from the switch into the battery socket in your receiver. Install the steering servo plug into the proper socket and then install the throttle servo plug into the proper socket per your radios instruction manual. Take the long plastic antenna tube and install it into the large hole in the #6338 antenna mount. The round end of the mount is the bottom.

The tube will fit tight, but it will go in. Now, from the bottom of the tube, feed the receiver antenna wire up through the tube, from the bottom. Push the wire up through the top about 1" (25mm) and tie a knot in it. Now attach the antenna mount in the location shown. Any excess antenna wire can be stowed by the mount, as shown. There are a few extra holes in the bottom of the chassis which will not be used. Cover these holes, from the top, with cellophane tape or the servo tape and this will help to keep the dirt out of the car.

**Fig. 182**
Fig. 183  Now we'll assemble the batteries. You'll notice there should be one positive and one negative end on each end of the battery pack. There is also a battery assembly drawing page in the back of these instructions. Attach the 2 battery sticks together with servo tape, as the photo shows so the tabs can be soldered together. If the tabs are too short, connect them with a piece of wire and rosin core solder together, as shown.

Fig. 185  In this photo, the arrow is pointing to the positive end. Solder the red wire to this tab and then bend the tabs back flush as close as possible.

Fig. 186  Now wrap both ends of the battery with strapping tape or black electrical tape, as shown.

Fig. 187  In Bag #8-6 is the #3736 battery charger cord. We'll have to solder the ends to the wires. The arrows, in the photo, are pointing to the positive (+) connection. This is the silver appearing wire, not the black wire. There is a clear plastic coating on this wire, which is very hard to see. Take your scissors, knife and scrap off this clear coating on the end for soldering. Slip the red tube on the wire. Now solder the wire to the clip as shown. If you have a small soldering iron, you'll have to hold it on awhile longer to heat up the clip. Now solder the black negative (-) wire to the other clip using the black tube. In the back of these instructions is a page on charging batteries. Read it carefully and charge the battery pack. Also make sure the batteries in your radio transmitter are charged.
Fig. 187

Fig. 188

Fig. 189

Fig. 189 Turn the car switch OFF. Plug the motor plug into the wiring socket, as shown, then tie a small tie wrap around the wiring socket and wing tube. This will keep the wires away from the tires.

**Fig. 188** Slip the charged batteries into the radio tray, as shown. In Bag #6-7 are the 2 battery straps and 4 clips. Slip the keyhole end of the straps, over the rear screws in the battery trays. Then pull them forward so the slotted end slips under the screw head. Slip the forward end of the straps over the forward screws and put 2 clips through the screw heads. Take your charged radio transmitter, pull the antenna up and turn the transmitter switch on. Plug the battery plug into the wiring plug as the arrow shows. If your servos moved then your switch was in the “ON” position. Make sure your switch is correctly marked "OFF" and "ON". Turn your switch on for ONE SECOND and turn it off. Refer to photo 175. See if your resistor arm is close to this position. If it is not, unscrew the wiper arm off the servo wheel. Turn the switch on. Advance the throttle arm on the transmitter. See if the servo arm rotates in the proper direction. If it doesn’t turn the car switch off and transmitter off.

Install the wiper arm on the servo arm in the exact location shown in photo 175. Turn the transmitter on and the car switch on. The wiper arm should now be exactly like in photo 175. Pull the throttle half way. The wiper arm should now be close to photo 176. Pull the throttle all the way open. The wiper arm now should be exactly as shown in photo 177. This can be accomplished by setting the end point adjustment on your transmitter per your radio manual. Now refer to photo 143. Turn your transmitter steering wheel to the right. Your wheels should turn to the right. If not, you’ll have to reverse the steering servo, as before. Now you’ll want to get the #6256 linkage centered, as shown. You may have to change the hole location on the servo wheel.
Fig. 190 Take the front wheels and tires out of the bag. We want to put the large plastic ring inside the tire as shown. Work the ring into the tire until it is seated evenly. Tires vary a lot. Some will go on quite easily, and some will be quite difficult to install. On the tough ones, soapy water, like dish washing soap, will help the rubber to slip easier and will make mounting the tires much easier. Be sure to rinse off the soap and then dry the tires thoroughly.

Fig. 190

Fig. 191 The front tire, #6854, with the ring inside. Make sure it's perfectly centered.

Fig. 191

Fig. 192 Take the inside half of the front wheel, as shown, and push it into the front tire making sure it is seated all the way around, and centered perfectly.

Fig. 192

Fig. 193 Turn the tire over and install the inside half of the wheel. Make sure the screw holes are in line.

Fig. 193
Fig. 194 Install the 3 Allen screws. DO NOT overtighten these screws. Install the inside and outside #6863 wheel bushings or ball bearings.

Fig. 195 Oil the bushings and slip the wheels on the front axles. Spin the wheels. They should spin true. If not, re-mount the tires. Then install the steel flat washer and the locknut on each wheel.

Fig. 196 Take the rear tires, #6804 and slip the wide plastic rings inside the tires.

Fig. 197 They then should look like this.
Fig. 198 Take the inside half of the wheel and slip it inside the inside side of the tire, as shown, and make sure it's fully seated and centered perfectly.

Fig. 199 Now take the outside half of the wheel and slip it inside the other side of the tire. Make sure the screw holes are lined up. Install the screws. Do not overtighten.

Fig. 200 Slip the wheels on the rear axles. If they go on tight, screw them on the axle making sure the slot in the wheel aligns with the pin in the axle. Screw the locknut on. Some rear wheels will go on the axles a little tighter than others. When you're ready to remove the wheel, remove the nut, hold the wheel from the backside and tap the end of the axle until the wheel moves a little bit. Then you can simply unscrew it off the axle. I know you can't wait to see if the car runs, so turn the transmitter on, hold the car up by the center of the chassis, with your hands away from the rear tires, and turn the switch on. Touch the throttle just a little way and see if the tires turn forward. If everything's O.K., go ahead and play with the car a little while, but be careful!

Fig. 201 The driver can be painted to look quite life-like. If you paint the helmet and visor on the inside, they will have a glossy appearance. Then if you paint the rest on the outside, it will be very life-like. You can use the small brush on paint bottles available in hobby stores. The driver should be trimmed as shown, then it will slide up into the body, and 2 pieces of tape will hold it in place.
Fig. 201

Fig. 202  The body can be painted before you mount it, however it might be easier for you to mount it while it's clear because it will be easier to locate the holes for the body mounts and wing tubes. This photo shows the trim lines for the front of the body and the front body mount hole.

Fig. 203

Fig. 204  Trim a little of the body and slip it on. Keep trimming a little at a time until it clears the shocks. Cut out the body mount hole and the 2 wing tube holes. When you've got the body fitted, it's time to paint the body and wing. The body is painted on the inside and the wing is painted on the underside. There are 2 different ways to paint the body. By either brushing it on or spraying it on. The body is made of [*****] polycarbonate. In hobby shops, you can find special [*****] polycarbonate paints made for these type bodies, to brush on. Do not use any other type brush-on paints. If you want to spray it on, one of the best type of spray paints for [*****] polycarbonate is Pactra, available in most hobby shops.
Fig. 205  Now you'll have to figure out your paint scheme and mask the body off. Use automotive masking tape for best results. You always want to paint the darkest color first, and the lightest color last. So, in the case of this wing, the darkest color, which is towards the top of the photo, would be painted first. This means the first thing you mask off is the section which will be painted white. The next section you mask off is the lightest color next to white and so on. After you've painted the darkest color, you peel off the next layer of masking tape and paint the next lighter color and so on. When you paint the body, put some masking tape on the outside of the body at the body mount holes and wing tube holes and at the shock cutout holes so the excess spray does not get on the outside of the body.

Fig. 206  Mount the wing as shown in the instructions in the wing bag.

Fig. 207  Mount the body, with the body clips and wing, on the car, and then pat yourself on the back. YOU DID FANTASTIC!!
#6000 BASIC KIT contains the following:
- Chassis
- Rear wheels/tires
- Front wheels/tires
- Antenna kit
- Diff Lube
- Shock wrench/ball joint tool
- Headlamp set
- Knock-off set
- Bag #6-1 Front suspension
- Bag #6-2 Servo Saver

NO BAG #6-3 REQUIRED
- Bag #6-4 Chassis parts
- Bag #6-5 Body mounts
- Bag #6-6 Servo mounts
- Bag #6-7 Battery mounts
- Bag #6-8 Rear suspension
- Bag #6-9 Rear shocks
- Bag #6-10 Front shocks
- Bag #6-11 Springs and oil
- Bag #6-12 Transmission

NO BAG #6-13 REQUIRED
- Bag #6-14 Ball ends
- Bag #6-15 Gears

#6012 FULL KIT contains the following additional items:
- Motor
- Servo tape
- Wire ties
- Bag #6-13 Electrical items
- Bag #806 Charge cord

#6010 FULL KIT contains all of the above plus the following:
- Body
- Wing kit

#6016 FULL KIT is a #6010 kit with ball bearings
#6020 FULL KIT is a #6010 kit with a 6-cell nicad pack

RC10 KIT CONTENTS

BAG 6-1 - Front Suspension Bag

6206 Front A arms "wide track" pr
6207 Front Suspension Mount pr

6213 Front Block Carrier 15 deg pr
6217 In line Axle Steering Blk pr
6218 In line Front Axle pr
6223 King Pin pr
  4-40 shcs special for front shock mounting pr
6226 Inner Hinge Pin pr
6227 Outer Hinge Pin pr
6231 Front Shock Strut Wide "A" arms 4-40 x 1 3/4 Turnbuckle pr
6242 4-40 Nylon Insert Locknut pr
3216 #4 Steel Washer pr
6280 8-32 x 1/2 100 deg Alum Ftdh Phillips Green 6
  4-40 x 1/2 S.H.C.S. 2
6299 E Clips 16

BAG #6-2 - Servo Saver and Steering Linkage

6255 Servo Saver Plastic Only
6256 Linkage
  Z Bend 1/16 Piano Wire 2
  1/8 set screw Collar 2
  4-40 x 1/8 Setscrew 2
  4-40 x 2.06 Turnbuckle (Tie Rod) 2
  4-40 x 1.00 Turnbuckle 1
6281 8-32 x 7/8 100deg Alum Ftdh Phillips Green 2
  8-32 Nylon Locknut 2
  #10 Alum Washer 2

BAG #6-4 - Chassis Parts

6310 Nose Piece
6320 Nose Brace Tubes
6323 Rear Bulkhead
6325 Transmission Brace
6327 Wing Tubes
6280 8-32 x 1/2 100deg Alum Ftdh Phillips Green 2
  8-32 x 1/4 100deg Steel F.H.P. Silver 1
6288 4-40 x 1/4 B.H.C.S. 4
  4-40 x 1/2 S.H.C.S. 6
  #4 Alum Washer 4

6378 Rear Shock Strut
BAG #6-5 - Body Mount Kit

6330 Plastic Body Mount Post 2
6332 Hood Pins 4
  #10 Alum Washer 4
6280 8-32 x 1/2 100deg Alum F.H.P. Green 2
6281 8-32 x 7/8 100deg Alum F.H.P. Green 1

BAG #6-6 - Servo Mount Kit

6336 Servo Mount Plastic 4
6292 4-40 x 3/8 F.H.S.C. 4
  4-40 x 5/16 B.H.C.S. 8
  #4 Alum Washer 10

BAG #6-7 - Battery Cup

6334 Battery Cup pr
6335 Battery Hold Down Strap 2
6332 Hood Pins 4
  4-40 x 1/2 F.H.S.C. 4
  4-40 x 3/8 S.H.C.S. Whole 2
  4-40 x 3/8 S.H.C.S. Pin 2

BAG #6-8 - Rear Suspension Kit

6355 Rear A Arms pr
6360 Rear Suspension Mounts pr
6366 3deg Rear Hub Carriers 2
6370 Rear Dogbones 2
6372 Dogbone Spring/Spacer 2
6374 Rear Stub Axle 2
6375 Stub Axle Roll Pin 2
6380 Rear Inner Hinge Pins pr
6381 Rear Outer Hinge Pins pr
  4-40 x 1 3/4 Turnbuckles 2
6387 Bronze Oi1te Bushing/w Washer pr
6388 Cone Washer pr
6280 8-32 x 1/2 100 deg Alum Flathead 4
  4-40 x 5/16 S.H.C.S. 4
6299 E Clip 16
  8-32 Nylon Insert Alum Locknut 2

BAG #6-9 - Rear Shock Bag

6452 Rear Shock Body .4x132 2
6463 End Cap 2
6458 Shock Shaft 1.32 Stroke 2
6464 Piston 2
6467 Rebuilt Kit ("O" ring washer bag) #6458 Nylon Gasket 2
  Nylon Spacer 2
  Large Washer 2
  Small Washer 2
  Snap Ring 4
  50 Shore Silicone "O" Ring 4
  #6299 E Clips 8
6470 Mounting Kit Includes
  6471 Rod Ends w/.230 Balls 2
  6473 Cap Bushings 2
  4-40 x 3/4 S.H.C.S. 4
  4-40 Plain Hex Nut 4
  4-40 Nylon Insert Locknut 4
  #4 Alum Washer 4
  Nylon Spacers 6

BAG #6-10 - Front Shock Bag

6454 Shock Body .71 Stroke 2
6463 End Cap 2
6460 Shock Shaft .71 Stroke 2
6464 Piston 2
6467 Rebuild Kit (See Bag 6-9)
6470 Mounting Kit (See Bag 6-9)
  Nylon Spacers

BAG #6-11 - Oil, Springs, Clamps

5414 30 wt Shock Oil
6478 Spring Rear 2.75 x .042 Silver 2
6479 Spring Rear 2.75 x .045 Gold 2
6496 Spring Front 1.3 x .042 Silver 2
6497 Spring Front 1.3 x .045 Gold 2
6474 Clamps and Cups includes
  Spring Clamp 4
  Spring Cup 4
  4-40 x 3/8 S.H.C.S. 4

BAG #6-12 - Transmission Bag

6605 Gear Case Housing
6606 Bearing Adapters
6607 Motor Mount Plate
6608 Dust Cover w/Plastic Plug
6609 Drive Gear Pivot w/Nut,Roll Pin
6610 Idler Gear Pivot w/washer,clip
#6635
6611 Spine Plate
6612 Axle Drive Gear
6614 Idler Gears w/0-80 x 3/16
S.H.C.S. 10
6617 Dif Tube
6618 Dif Shaft w/6620
6621 Dif Pinion Right goes w/6617
6623 Bushings
6624 Dif Outer Bushings
6625 Dif Drive Rings
6626 1/8 Grade 25 Chrome Steel
Balls 8
6627 Thrust Bearing Set includes
    Thrust Washers w/small hole
    Thrust Washers w/large hole
    1/8 Thrust Bearing
6628 Dif Spring
6629 5-40 Locknut
6630 Oiltite Bushing Set includes
    3/16 x 5/16 Short 3
    3/16 x 5/16 Long 2
    1/4 x 3/8 Thin 1
6633 Felt Seal Retainer w/Seals
6280 8-32 x 1/2 100deg Alum
    F.H.P. 4
    4-40 x 1 S.H.C.S. 3
    4-40 x 5/8 S.H.C.S. 1
    4-40 X 3/16 B.H.C.S. 2
6285 4-40 x 1/4 S.H.C.S. 2
6299 E Clips
    Snap Rings 4
    Small Pattern 4-40 Nut 1

BAG #6-13 - Electrical Bag

6711 Resistor
6712 Wiper Arm
6713 Resistor Mounting Brkt incl.
    Straight Bracket 1
    "L" Bracket 2
6714 Bypass includes
    Bronze Bypass 1
    Nylon Mounting Block 1
    3' Wire 1
    4-40 x 3/8 S.H.C.S. 1
    4-40 x 1/2 S.H.C.S. 1
2 #4 Alum Washer 1
6744 Wire Harness Input
6745 Wire Harness Output
Misc Hardware includes
    Yellow Bypass

4 Nylon Spacers
#2 x 1/4 Panhead Screw 2
4-40 x 1/2 F.H.S.C. 2
4-40 x 3/8 F.H.S.C. 2
4-40 Nylon Insert Locknt 4
#2 Washers 2

BAG #6-14 - Ball End W/Cups

6273 Ball End Long 6
6270 Ball End Short 8
    4-40 Plain Hex Nut 8
6274 Plastic Ball Cup 14

BAG #6-15 - Gear Bag

6653 54T Gear Spur
6660 14Tooth Pinion Gear
    4-40 x 1/8 S.S.
6955 Turnbuckle Shock Wrench
6191 Headlights & Knockoffs
6338 Antenna Mount and Tube
6636 Dif Lube
6950 Allen Wrench Set
    Wire Ties 4" 3714 Servo Tape

6500 Stock Motor w/Leads
6300 Chassis
6173 Protech II Body
6182 High Down force Wing Kit
6180 Clear Driver

REAR WHEEL
6804 3 pc Low Profile Rim 2
    Rear Tire 2
    4-40 x 3/8 S.H.C.S. 6

FRONT WHEEL
6854 3 pc Low Profile Rim 2
    Front Tires 6
    3/16 x 3/8 Bushing Bronze 4
    Oilite 6
    4-40 x 3/8 S.H.C.S.

page 56
NOTE: Use green and black radio leads with 6-cell pack. Use red and black radio leads with 7-cell pack.
BATTERY WIRING

STEP 1
Join cell sticks with servo tape.

STEP 2
Wrap with strapping tape at two places.

STEP 3
Join and solder tabs at one end of pack.

STEP 4
Solder connector wires to tabs at other end.

STEP 5
Tape wires to pack as shown. Use 3/8" tape where indicated.

Fig. 209

RC10 CIRCUIT SCHEMATIC

Fig. 210

All wire is 18 gauge or heavier except for radio leads.
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