



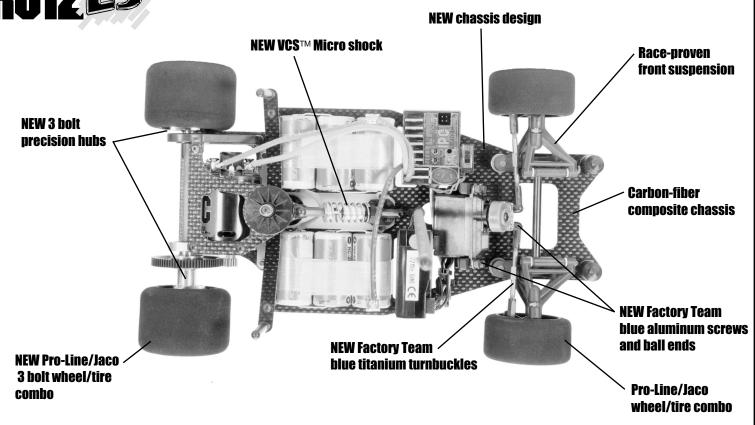
# SAVE THIS MANUAL!

Use with current catalog for future, hassle-free re-ordering of parts.



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# RC1212



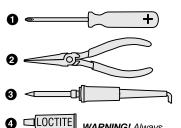
# **TOOLS**

### **KIT TOOLS SUPPLIED**

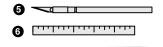
- **1** Allen wrenches, .050", 1/16", 3/32"
- 2 shock tools
- 3 metal turnbuckle wrench

### **EXTRA TOOLS NEEDED**

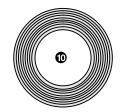
- 1 Phillips screwdriver, #2
- 2 needlenose pliers
- 3 soldering iron (40-50 watts) and a small amount of Rosin core solder. Pencil-type soldering iron is better than the gun type. DANGER! Tip is HOT!
- 4 thread locking compound (#242 Blue Loctite© or equivalent)
- 6 hobby knife WARNING! This knife cuts plastic and fingers with equal ease, so be careful.
- 6 precision ruler
- 7 file
- 8 hand drill with 3/32" (or #43) drill bit
- 9 electrician's tape
- strapping tape



WARNING! Always use hand and eye protection with cyanoacrylic glue!









### **HELPFUL TOOLS (NOT REQUIRED)**

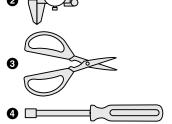
1 Allen drivers (straight Allen wrenches with hex shaped handles) such as the following made by Associated:

#6957 .050" Allen wrench 1/16" Allen wrench #6958 3/32" Allen wrench #6960 #6961 2.5mm Allen wrench

- 2 vernier calipers
- 3 hobby scissors
- 4 nut drivers (screwdriverhandled hex socket tools) such as the following from Associated: #SP-86 3/16" nut driver

#SP-85 1/4" nut driver

#SP-82 11/32" nut driver



WARNING! Do not use a power screwdriver to install screws into nylon, plastic, or composite materials. The fast rotation speed can heat up the screws being installed. They can then break or strip the threads during installation.

# **ITEMS NEEDED TO OPERATE YOUR CAR**

- 1 R/C two channel surface frequency radio system.
- 2 \*Batteries (6 cell).
- 3 Battery charger (we recommend a peak detection charger).
- 4 \*Electronic speed control.
- 5 \*R/C electric motor.
- 6 \*Pinion gear, size to be determined by type and wind of motor you will be using.
- 7 \*1:12 scale Lexan body and wing.
- \* Available from Associated. See your catalog.

### REACHING US

**CUSTOMER SUPPORT** 

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# BEFORE BUILDING

### **OPEN THE BAGS IN ORDER**

The assembly is arranged so that you will open and finish that bag before you go on to the next bag. Sometimes you will have parts remaining at the end of a bag. These will become part of the next bag. Some bags may have a large amount of small parts. To make it easier to find the parts, we recommend using a partitioned paper plate for spreading out the parts so they will be easier to find.

### MANUAL FORMAT

The following explains the format of these instructions.

### The beginning of each section indicates:

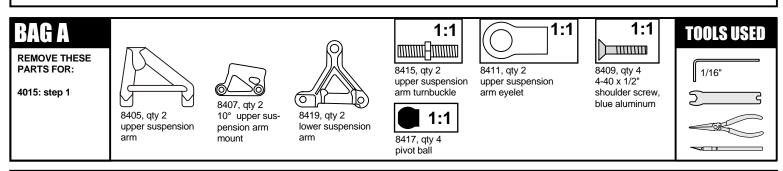
- 1 Which bag to open ("BAG A").
- **2** Which parts you will use for those steps. Remove only the parts shown. "1:1" indicates an actual size drawing; place your part on top and compare it so it does not get confused with a similar part.
- 3 Which tools you should have handy for that section.
- 4 In some drawings, the word "REAR" with an arrow indicates which direction is the rear of the car to help keep you oriented.

- **5** The instructions in each step are ordered in the order you complete them, so read the words AND follow the pictures. The numbers in circles are also in the drawing to help you locate them faster.
- **6** When we refer to left and right sides of the car, we are referring to the driver's point of view inside the car.

### SUPPLEMENTAL SHEETS

We are constantly developing new parts to improve our kits. These changes, if any, will be noted in supplementary sheets located in a parts bag or inside the kit box. Check the kit box before you start and each bag as it is opened. When a supplement is found, attach it to the appropriate section of the manual.

**Now clear off your workbench,** line up some partitioned plates, grab your hot dog, root beer, bag o'chips, hang up your DO NOT DISTURB sign, and let's go!





# ASSEMBLE UPPER SUSPENSION ARM

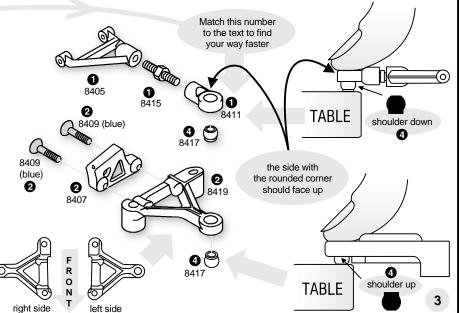
 Assemble parts #8405, 8415, and 8411.

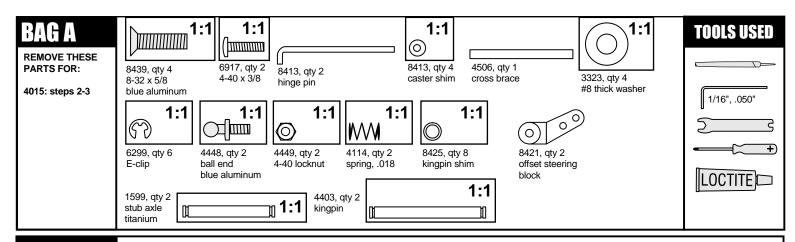
### ATTACH UPPER ARM MOUNT TO LOWER ARM

Attach #8407 10° mount to the #8419 lower suspension arm using two #8409 screws. WARNING! Screws are difficult to screw in. Turn carefully so you do not strip out the head.

### **INSTALLING UPPER AND LOWER PIVOT BALLS**

- **3** Before popping in the pivot balls, make sure there are no burrs inside the pivot ball holes.
- Pop the #8417 pivot balls into the suspension arms as shown. Make sure that the shoulders of the pivot balls in the lower suspension arms are facing upward and the pivot balls in the upper arm are facing downward as shown. Orient ball to the rounded side of the upper arm as shown.
- **5** Now assemble the right side.



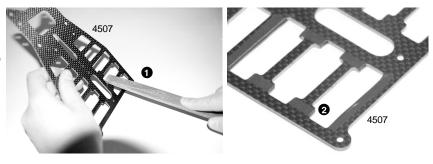


### **FILE THE CHASSIS**

Use your file to bevel the slots on the top of the chassis so the edges won't cut through the battery cell wrap. WARNING! Graphite dust can be harmful to your health. File in a well ventilated area. Then wash the chassis with running water and dry with paper towels. Wash your hands afterward with cold water and soap. Deposit graphite filings in trash.

### TAPE THE CHASSIS

Insulate the battery slots by wrapping the slots with electrical tape where the batteries will touch the chassis.



NOTE: The bottom of the chassis has the screw holes countersunk.

### step 3 LEFT SIDE

### SUSPENSION ARMS TO CHASSIS

• Bolt the #8419 suspension arm to the chassis with two #8439 blue aluminum screws from underneath the chassis, with one #3323 washer (between arm and top of chassis) for each screw. Do the other side.

### MOUNT THE CROSS BRACE

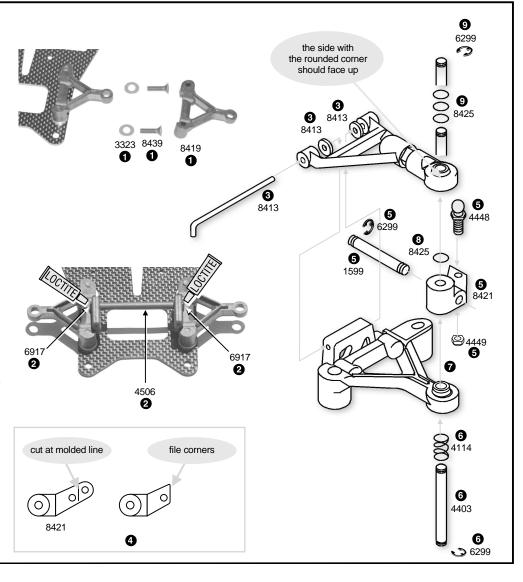
2 Mount the #4506 cross brace to the front suspension using two #6917 button head screws.

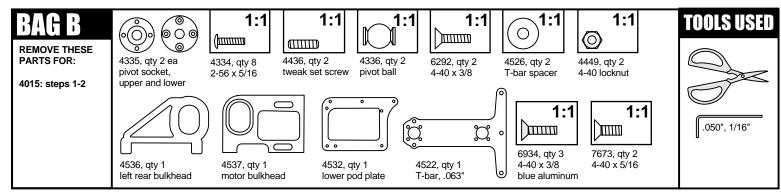
# UPPER ARM TO THE SUSPENSION MOUNT

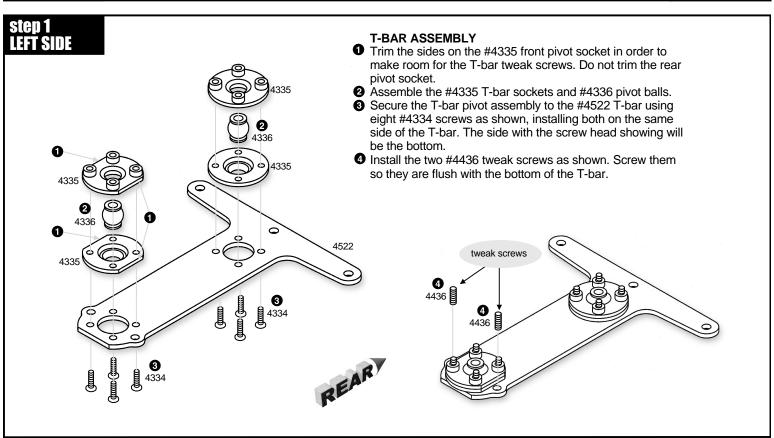
Assemble the upper arm assembly to the suspension mount as shown, using the #8413 hinge pin and shims.

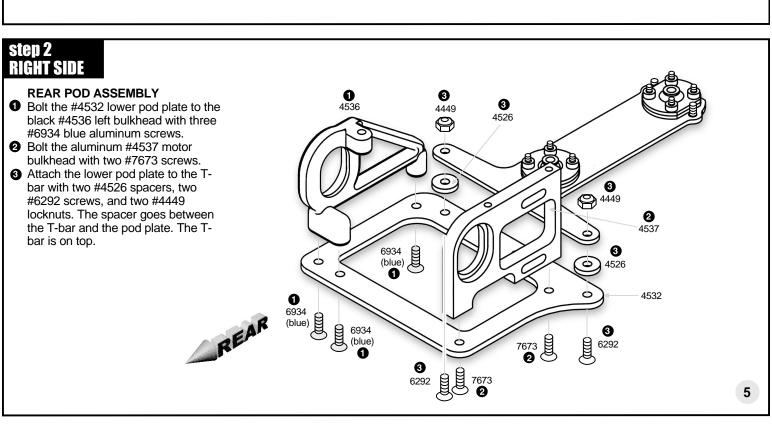
### FINAL FRONT SUSPENSION ASSEMBLY

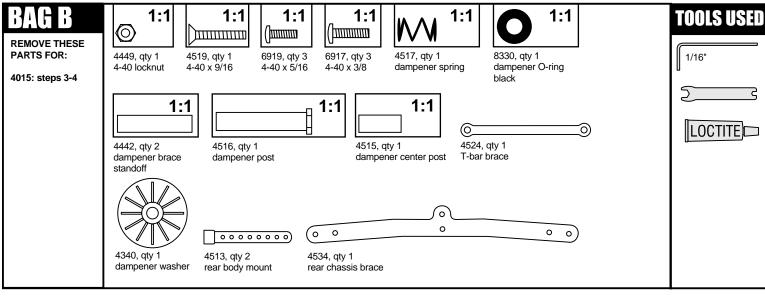
- Out and file the #8421 steering block as shown.
- Assemble the #8421 steering block as shown using parts #1599, 6299, 4448, and 4449.
- Place one #6299 E-clip on the bottom of the #4403 kingpin then slide the #4114 spring
- Slide the #4403 kingpin completely through the bottom of the suspension arm and up through the steering block.
- Place one #8425 shim on top of the #8421 steering block.
- Now push the upper arm over the kingpin. Place three #8425 shims over the kingpin and secure with a #6299 E-clip.
  - 10 Do the other side.

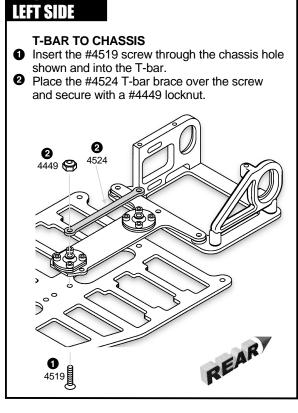


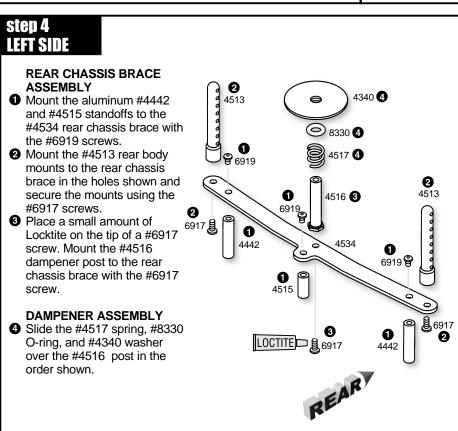


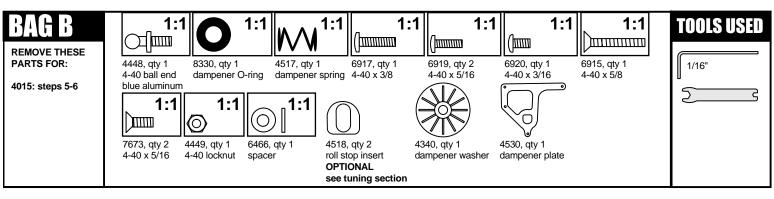




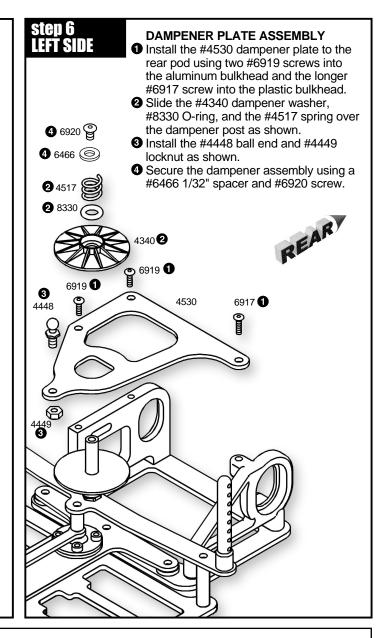








# T-BAR MOUNTING Insert the #6915 screw up through the chassis and into the rear part of the T-bar, and screw it into the center chassis brace standoff tube. Secure the outside aluminum standoffs to the chassis with the #7673 screws.





REMOVE THESE PARTS FOR:

4015: steps 1-2



897, qty 2 1/4 x 3/8 flanged bearing



6626, qty 6 1/8" diff ball

1:1



§7673

4349, qty 2 ride height adjuster, #1 down



4460, qty 1 diff gear 75 tooth

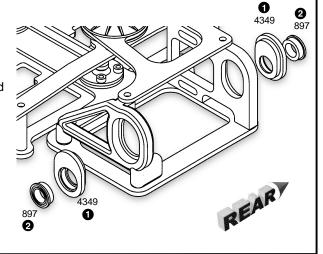


### step 1 LEFT SIDE

# DIFFERENTIAL ASSEMBLY

- Tind the #4349
  adjusters that have a small #1 on them, and insert them into the rear pod, hole down.

  (For more info on these, see the tuning tips later in the manual.)
- 2 Insert two #897 ball bearings into the ride height adjusters as shown.

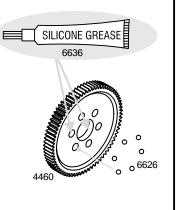


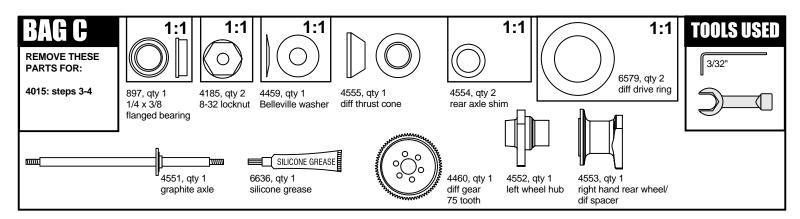
# step 2

### **DIFF GEAR**

Add #6636 silicone grease to the #4460 diff gear ball holes and center hole.

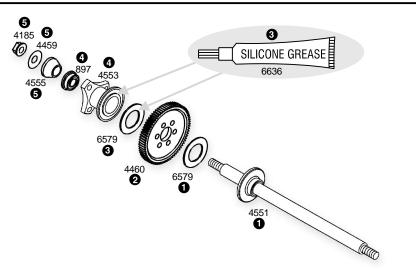
2 Push the six #6626 diff balls into the holes.





### **FINAL DIFF ASSEMBLY**

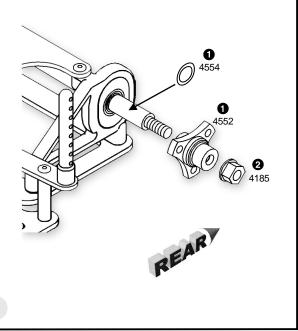
- Hold the #4551 axle upright and slide the #6579 diff ring over the axle and onto the aluminum hub of the axle.
- Slide the #4460 spur gear over the axle and center it on the hub.
- Apply a small amount of #6636 grease to the second #6579 diff ring as shown. Slide it over the axle, greased side towards the gear. This will keep the diff ring in place while assembling.
- Insert a #897 flanged bearing into the outside end of the #4553 wheel hub. Add a little #6636 grease to the smaller end, then slide the #4553 wheel hub over the axle.
- Install the #4555 cone so that the smaller end is facing the bearing. Place the #4459 Belleville washer over the axle so that the smaller end faces away from the cone, and secure with a #4185 locknut. We will adjust the diff after we put the wheels on.

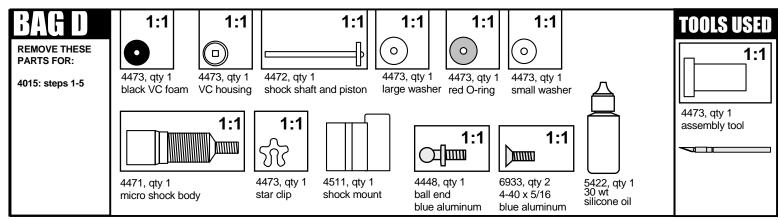


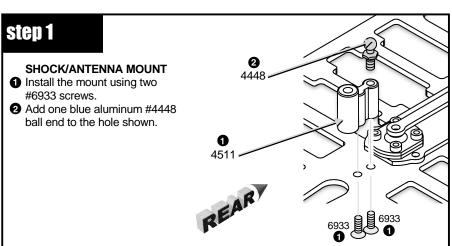
### step 4

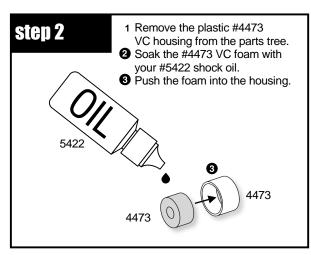
### **CHECK THE END PLAY**

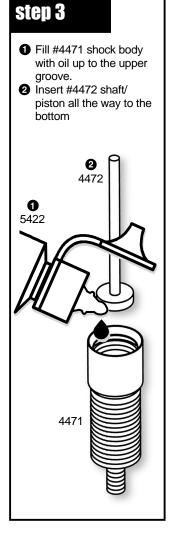
- Screw on the #4552 left wheel hub, then check the axle for side to side end play. Use the #4554 shims to take up any excess end play.
- When you have finished setting the axle end play, install the #4185 locknut to secure the left wheel hub.

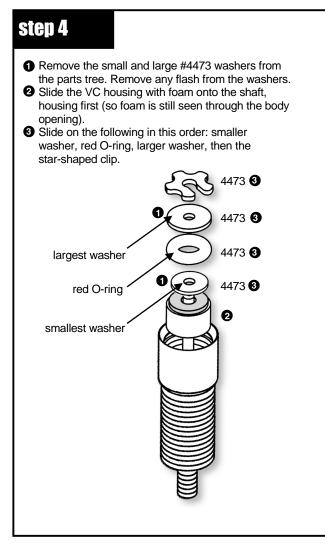


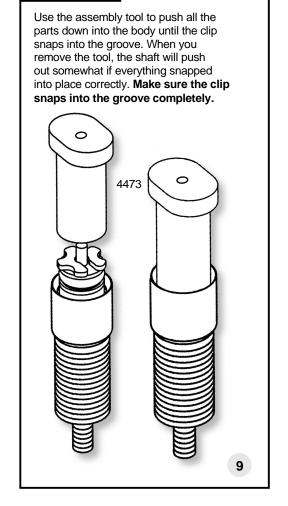












REMOVE THESE PARTS FOR:

4015: steps 6-8



4473, qty 1 6274, qty 2 ball cup spring adjusting nut



shock shaft end

6951, qty 1

set screw

green spring

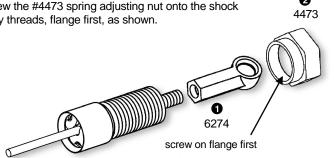
TOOLS USE

.050"

disassembly rod

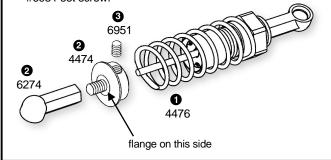
# step 6

- Remove the assembly tool and screw on the ball cup where shown.
- 2 Screw the #4473 spring adjusting nut onto the shock body threads, flange first, as shown.



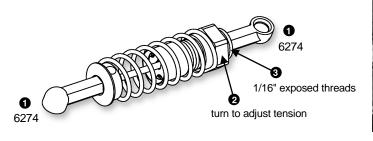
# step 7

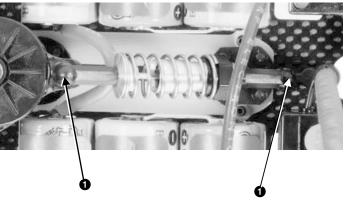
- 1 Slide the #4476 spring over the body and up against the #4473 adjusting nut.
- 2 Screw the #6274 ball cup onto the #4474 shock shaft end.
- 3 Tighten the #4474 shock shaft end to the shaft with the #6951 set screw.



## step 8

- 1 Pop the #6274 ball cups on the ball ends of your kit.
- 2 Turn the spring adjusting nut to adjust spring tension.
- 3 Adjust spring nut to 1/16" from threaded end.





# **DISASSEMBLY**

- 1 To remove the parts from inside the shock, first loosen the #6951 set screw of the #4474 shock shaft end (see step 7 above), then slide off the shaft end and spring.
- 2 Now carefully insert your disassembly rod into one of the rounded grooves of the star clip and pop it out.

