

# ASSEMBLY INSTRUCTIONS

Contact Elenco™ Electronics if you have any problems. Actual colors may vary from those shown here.

**INSPECTION OF PARTS**  
Take a look at each of the parts bags and compare to the Parts List (on the other side). Be sure that nothing was damaged during shipment and handling. There should be 8 wires coming off the Circuit Board - 2 connecting to the light bulb, and 6 others that will connect to other circuits. There should also be 3 wires on the Bottom Frame (one from the ON/OFF switch, 1 from the battery section, and another between the switch and battery contacts) and 2 on each of the motors. Be sure that none of these wires have broken off. Contact Elenco™ Electronics if you have any problems (phone number is on the other side).

**1**

Remote Control Transmitter

Note: Screw in tight.

Transmitter Antenna

9V Battery Slot (Alkaline recommended)

**2**

Bottom Frame

Driving Motor

Side Tab

Slot for Side Tab

**NOTE:** The Interior Tab should not touch the metal shell of the motor. It should fit into the slot of the middle compartment, bend if necessary. The side tab may either be bent to lay along the motor shell or point out the right side.

**3**

Rear Wheels Assembly

Round Locator

Locator Slots

**NOTE:** The next 3 steps will be much easier if you elevate the car about 1" using a small object.

**4**

Rear Rod

Middle Gear

Tab

**NOTE:** Put some Vaseline or grease into the slots for the rod and some on the teeth of all the gears (motor gear, middle gear, and the rear wheels gear). This will make the car go faster.

**NOTE:** Make sure that the middle gear is to the left of the tab in the case as shown. The middle gear must lie between the rear wheels gear and the tab.

**Quick Test:** All 3 gears should be lined up and turning one of them by hand should also turn the others.

**5**

0.4" x 0.1" Screws

Rear Section Cover

**NOTE:** Align the front of the Rear Section Cover before aligning the screw holes in the rear.

**NOTE:** Make sure that the wires from the ON/OFF switch and the motor run out of the rear section cover through the slots (as shown) without being damaged.

**6**

Steering Bar

Between the Wires

Inside the Car

Outside the Car

Wires

Steering Alignment Wire/Spring

Bend wires to fit around post. They must NOT be tight (or the steering won't work), stretch the wire with your fingers to loosen it if necessary.

Post is towards front of car

Steering Alignment Post

Front of car

**Screw Used (shown actual size)**  
0.4" x 0.1" X2

**7**

0.3" x 0.1" Screws

Steering Motor Bracket

Left Front Wheel

Right Front Wheel

Steering Motor

**NOTE:** The gear should lay on the teeth of the steering bar (get assistance if it does not). Add some Vaseline or grease to the teeth.

**Quick Test:** Turning one wheel by hand should also turn the other wheel and move the gear along the steering bar.

**NOTE:** The next 3 steps will be much easier if you elevate the car about 1" using a small object.

**Screw Used (shown actual size)**  
0.3" x 0.1" X2

**8**

Front Spring

Front Wheel Shock Absorbers

Post

**9**

0.3" x 0.1" Screws

Front Wheels Section Cover

**Screw Used (shown actual size)**  
0.3" x 0.1" X2

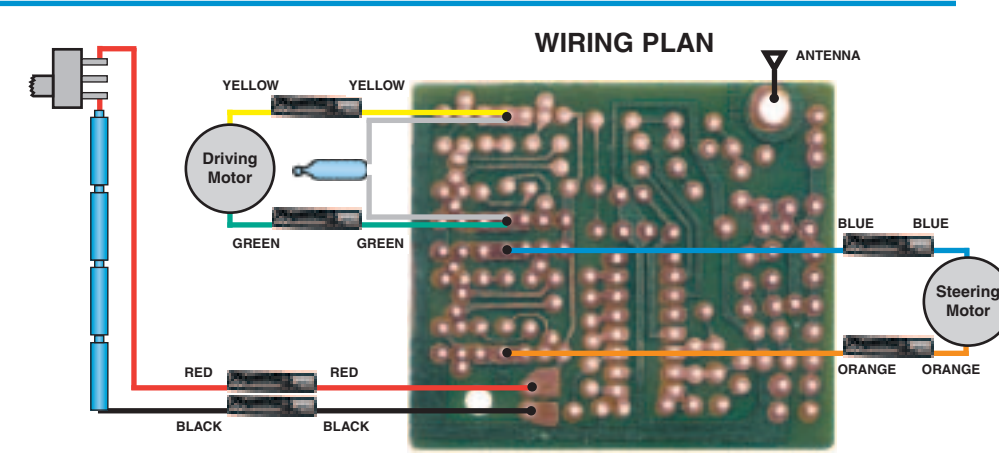
**10**

PC Board

Black Plastic Tubing

**Wiring/Tubing Assembly**

- Cut Tubing
- Slide Tubing onto wire.
- Twist wires together.
- Slide Tubing over the twisted wires.
- 



**Check Circuit Board for Shorts:** Examine the Circuit Board closely. Some of the components may have been bent during shipping and may now be touching each other. IN NO CASES SHOULD METAL FROM ONE COMPONENT BE TOUCHING METAL FROM ANOTHER COMPONENT (creating a "short circuit"). Bend apart any components that have metal touching.

**Batteries:** Be sure the ON/OFF switch is OFF. Place 4 AA batteries in the battery cage on the bottom, positioning their + and - terminals as shown there. Alkaline or rechargeable nickel-cadmium batteries are highly recommended.

**Quick Test:** Be sure none of the wires are touching or near the wheels. Flip the ON/OFF Switch to ON, extend the Transmitter Antenna, and move the remote control levers. If your car does not work initially then move the transmitter antenna right next to the car (touch it to the antenna wire on the Circuit board if necessary), because the car's antenna is not installed yet. If your car still does not work then refer to the Troubleshooting Section on the other side.

**11**

Top Cover

Light Bulb Cover

Light Bulb

0.4" x 0.1" Screw

**Screw Used (shown actual size)**  
0.4" x 0.1" X1

**NOTE:** Tape the light bulb wires to the inside of the top cover so that the light bulb stays above it.

**12**

Car Antenna

Top Cover

0.3" x 0.1" Screws

**NOTE:** Insert the antenna through the top cover before screwing it down.

0.4" x 0.115" Screw

0.4" x 0.115" Screws

**NOTE:** Be careful not to stress or break any of the wires and connections. You may also want to tape the wires down to keep them inside the car.

**13**

0.3" x 0.1" Screws

0.4" x 0.115" (4mm head) X2

0.4" x 0.115" (5.3mm head) X3

Decorative Decals: Place these on now, using your AK-870 box as a guide. Note that some models may not use all of the stickers provided.

Steering Alignment: Your car is ready for use. If it does not go straight when you release the right control lever, then adjust the steering alignment on the bottom front of the car with a screwdriver until it works properly.

Front

Steering Alignment Control

**FINISHED**

You have now completed the assembly of the AK-870 Radio Control Car Kit. Refer to **HOW TO USE IT** on the other side. If the car does not work, refer to **TROUBLESHOOTING**.

There are many other AmeriKit projects: Electronic Playground, Cassette Player, Talking Clock, Telephone, Electronic Keyboard, etc. Ask your store about these projects or call AmeriKit at (847) 541-3800 or check out our Web site!

