

# "TURBULATOR"

**Newsletter**  
of the Rio Rancho  
Radio Control  
Flying Club  
AMA Club #2770

**WATERMAN FIELD**

**ELEVATION 5840 FEET**

**35° 17.2'N 106° 44.8'W**



Balloons Fly past the field



## PRESIDENT'S CORNER

### "Da Prez Sez"

Balloon Fiesta has come and gone. As usual it was a lot of work, with a lot of fun also. Conditions this year were the best in a long time, with cool mornings and warm calm days. I heard that conditions at the field were nice for a change. Someone said that Garry Wallen was having a milestone birthday soon, some real big numbers well Happy Birthday to Garry and we all hope you have many more. Cochiti is closed for the season, we did have some very good flying there while it lasted. Next year will even be better.

Nov. meeting is important as it is the last before the Christmas party hope to see you all there.

## Coming Events

1. Meeting 6 November at Wallen Club House
2. Indoor Flying at the Star 6 November 9:00-Noon
3. November 4, Sale at Hobby-Proz
4. Club Treasurer is collecting Dues.
5. Christmas Party Friday 8 Dec 2017.
6. Nominations for Club Officers is Open

# Must-Know Soldering Tips



There is always that occasional opportunity to do some soldering. When you need to add some connectors to a battery pack, or to make a set of wiring adapters for your battery charger, using heat and molten metal to join wires together is one of the oldest do-it-yourself tasks for RC hobbyists. The task is usually very simple: just add heat and solder, and you're done! But for the haven't-done-it-yet newcomers in the crowd, there's a little more to it than that. Here are a few helpful hints to get you started!

## YOU'LL NEED



For basic wire, motor terminal and speed control soldering, you'll need:

- 40/60 rosin-core solder

- 25 to 40W soldering gun or pen

- Moist sponge to clean the soldering tip

- Basic tools (clothespins and alligator clips) to hold parts, pliers, etc.

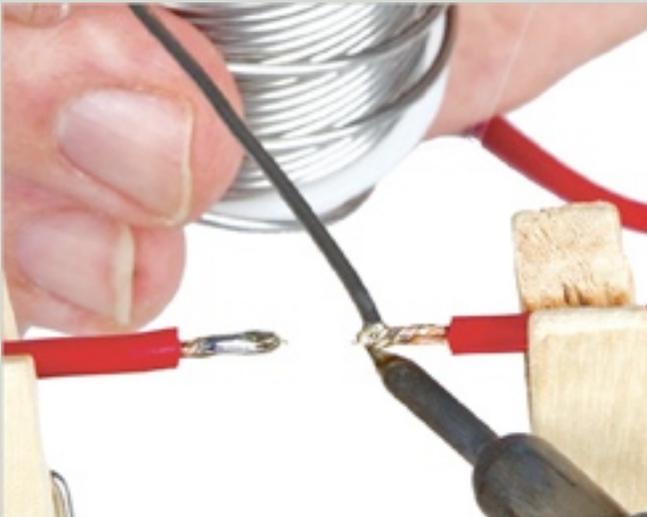
- Tube of soldering flux for soldering and tinning metal parts

- Heat-shrink tubing to insulate wire solder joints

## THE BASIC TASK



1 Start by stripping the plastic insulation off the ends of the wires (usually, 3/16- to 1/2-inch is plenty).



2 Set up the wires in your holding jig. Tin the ends of the wires by lightly applying a small amount of solder to the exposed wire and allow it to flow into its strands. Apply the heat to one side of the wire and touch the other side with the solder. When the wire is hot enough, the solder will flow into the wire braiding.

#### NEED A HAND?

A piece of pine, two wooden clothespins and some ZAP is all that's needed to make a holding jig for soldering.



You can snap off the clothespins easily and reglue for different jobs. The cost is nothing!

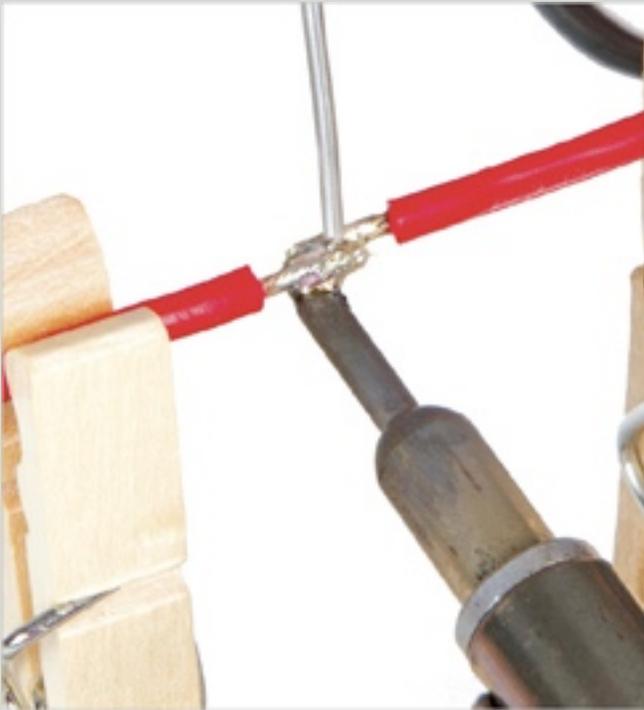


Commercial soldering jigs like this one from Tingler Innovations ([solderbuddy.com](http://solderbuddy.com)) are also a good investment.

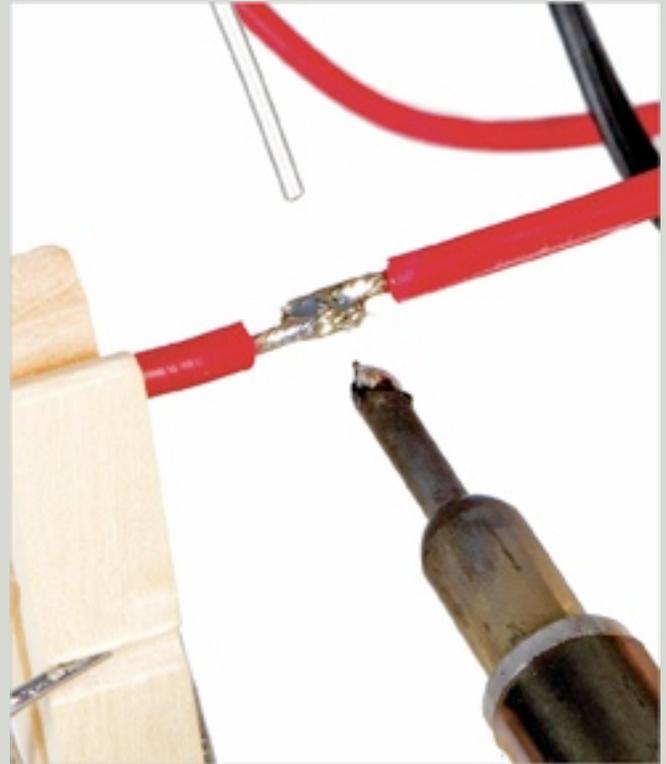


The first thing you'll learn is that to solder anything together, you'll need an extra set of hands,

especially when trying to solder two wires together. With solder in one hand and the soldering pen in the other, how do you prevent the wires from moving around? With a handy-dandy “third-hand” holding jig, of course! You can easily build such a holding aid with a wood base and a couple of wooden clothespins glued to it. A holding jig or fixture will pay off the very first time you use it—take my word for it! You can glue the clothespins in the exact placement you need for a specific job and then you can snap them off and reposition them whenever the need arises. I don’t think that you can really do a good soldering job without one!



3 Slip some heat-shrink tubing over the wires and push them away from the solder joint area. Position the ends of the wires together, then reheat the wire. Watch the solder tinning. When it liquefies and flows together, add just a little more solder to fully fill in the joint.



4 Remove the solder and the heat and allow the joint to cool off. Don’t move or budge the wires. If they move while the solder is still hot and fluid, you’ll create a weak “cold joint” that can break easily from vibration while your plane is in the air.

#### SOLDERING TIPS

When in doubt, use a bigger soldering pen. More heat is always better than not enough. If your solder takes more than two or three seconds to start flowing, you don’t have enough heat.

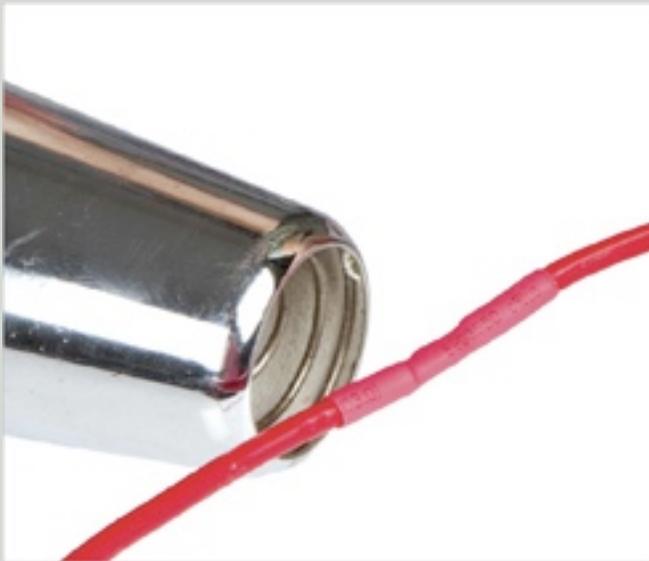
For most everyday soldering, standard rosin-core solder works great. For very fine-wire gauges (like servo leads), use thin solid-core solder and apply a dab of solder flux paste to the wires.

Keep your soldering tip clean. Use a damp sponge and wipe the tip between each use.

Use only resin-core solder or flux paste with braided wire. Liquid soldering flux can wick into the plastic insulation and cause your wires to corrode over time.



5 Once the solder joint has cooled, slide the heat-shrink tubing over the joint and shrink it into place. I like to do this with a hot air gun used for shrinking plastic covering. It's quick and easy and the heat gun won't melt the wires or the solder.



Of course, it takes practice to improve your skills so cut up some wire and solder the pieces back together. You'll be a soldering pro in no time at all!



Blue Angels at Disney by Doug Williams



# MEETING MINUTES

## Minutes from the October 2017 Club Meeting

The meeting was called to order 1900 with  
15 members present

Minutes: - accepted as published

Treasurers: Report accepted as presented

Membership Report: 14 2018 members  
41 Member total in club.

Field Report: Roads are flooded. Use 5th.

Safety Report: No issues noted

Old Business: Christmas Party - Friday 8  
Dec with a \$5/person cover. Garry to get  
raffle prizes..

New Business: Bill is collecting dues  
through end of dec on Jan 1 non-renewing  
members will be removed from the Roster.  
2. Nomination of Officers - is open. Vote at  
Dec mtg. Ken may not run for 2018. Right  
now there are no nominations for Club Officer  
positions.

Mtg ended @ 1950

Next mtg 6th of November



**HOBBY PROZ**  
**10<sup>TH</sup> ANNIVERSARY SALE**  
**SAT. NOV. 4<sup>TH</sup> 10AM - 6PM**

**20% off**  
Models, Parts, Tools, Paints, Hardware, Tires, Glue

**15 % off**  
Radios, Servos, ESC , Batteries, Chargers

**12% off**  
Car Kits, Airplanes RTF BNF and Kits, Drones,  
Vanquish Products

\*prepaid Special orders can be done on most items ask  
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### Turbulator:

Editor Don McClelland

We are always looking for articles,  
pictures and your input!

For comments, or suggestions

Please Email Don at  
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### RIO RANCHO RC CLUB

AMA Charter #2770

[www.rioranchorcflyers.org](http://www.rioranchorcflyers.org)

### Next Club Meeting

November 6th 7:00pm at the  
Wallen Club House. 5545 Lilac Pl.