

Richmond RC

Richmond RC Supply Ltd
#114 -7350 72nd Street
Delta, B.C., V4G 1H9, Canada
Phone (604) 940-1066 Fax (604) 940-1063
email: sales@richmondrc.com website: www.richmondrc.com



Main Gear - After Market Modification - VMAR ARF Kits

From: Richmond RC Tech Support
Date: 08 Aug 1998 Time: 23:51:39



Check out our web site at www.richmondrc.com
General > Discussion Groups for tips & comments about VMAR ARF's!

Many of the new VMAR ARF kits come with a new Aluminum main gear. We have had some requests for information on how to make this new main gear even stronger. There are some rough strips and rougher landings out there and we've worked up a solution that will handle just about anything.

Use 5/32" wire such as SUL-260 and a wire bender to make a wire based reinforcement to attach beneath the aluminum main gear. The aluminum provides great strength in the fore and aft direction... the wire reinforcement provides strength in the vertical. Here is how to make and mount the wire reinforcement. This is a very low cost improvement that you can make in about an hour.

- 1) Apply masking tape to the bottom of the aluminum main gear. Mark on the tape where each bend occurs.
- 2) Remove the tape and apply it to 5/32" wire such as #SUL-260. Wrap it around the wire and then use an Xacto knife to trim the excess tape so that you have a neat wrap of tape around the length of wire.
- 3) Use a wire bender and the taped wire to form a wire main gear that parallels the bottom shape of the Aluminum main gear. Suggest you start from the middle and work out to each end, checking frequently as you go to ensure a neat snug fit. You can cut the wire gear so that it ends just above the axle holes in the aluminum or you can make right angle bends in the wire and bring the ends out through the aluminum axle holes to serve as new axles.
- 4) Attach the wire gear to the underside of the aluminum main gear using four nylon 5/32" landing gear clamps such as Goldberg #GOL-287 (these come four to pack). These should be mounted on the main leg of the aluminum gear about 1-1/2" in from the top and lower bends. Suggest you apply masking tape to the aluminum main gear about 1-1/2" from the bends, mark out the mounting holes for the clamps, centre punch the marks and drill them out with a 1/8" or 3/32" drill.
- 5) Use 2-56" lock nuts such as Dubro #DUB-168 and 2-56 X 1/2" socket head cap screws such as Dubro #DUB-310 to fasten the clamps and the wire to the Aluminum Gear. The lock nuts come 8 to a pack... the screws come 4 to pack.
- 6) Install the bolts with the socket heads facing up and the nuts beneath the landing gear. Tighten the bolts and nuts snugly and then cut the excess bolt length off flush with the outer surface of the nuts.
- 7) Now mount the new stronger Aluminum plus wire gear assembly to the fuselage and reinstall your wheels. That's about it. You'll have a much stronger landing gear that will handle all but the most violent of landings. If you bend this gear... you need to consider working on your approaches a bit!

