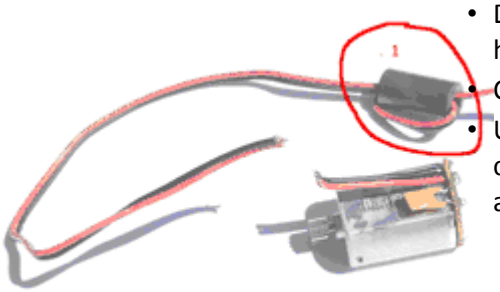
Repairing motor wires

The following 6 simple steps show you how to repair your motor wires. This is legal in New Zealand> We are waiting for confirmation that this will be legal at the World Championships.

STEP 1:



- Disassemble the motor assembly and remove the motor from the housing.
- Cut the motor cable where the insulation has split.
- Using a Stanley knife or similar, cut the heat shrink from the ferrite choke, and move the choke away from the cut ends of the motor cable, and toward the plug end (1.)

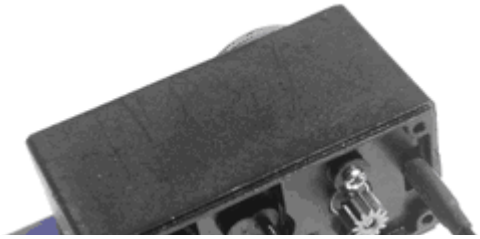
STEP 2:

- Cut two pieces of 1.5mm diameter heat shrink about 15mm long, and one piece of 3.0mm diameter heat shrink about 15mm long.
- Split the red and black wires of the motor cable about 40mm, and strip about 1mm of insulation from the end of each.
- Twist the copper strands and tin with solder.
- Slide the 3.0mm diameter heat shrink over the cable (1) and one each of the 1.5mm diameter heat shrink pieces over each of the wires (2).

STEP 3:

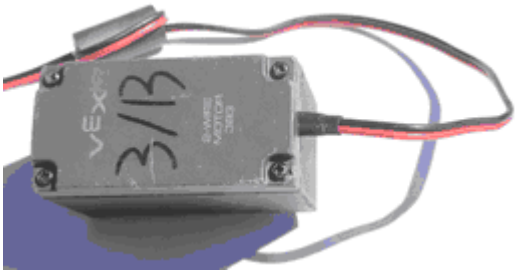
- Using a heat gun, heat the two 1.5mm diameter heat shrink tubes.
- When they have cooled, slide the 3.0mm heat shrink tube about three quarters of the way over them and shrink it with the heat gun.
- This will prevent the red and black wires from separating any further.

STEP 4:



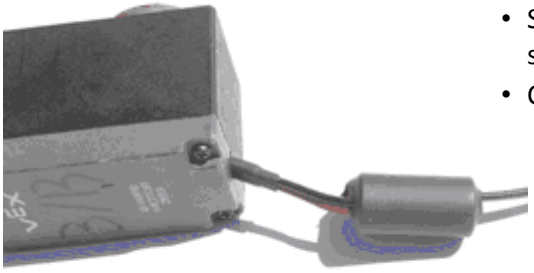
- Feed the cable through the hole in the motor housing, and re-solder it to the motor.
- Reassemble the motor into the motor housing.

STEP 5:



- Replace the rear cover of the motor assembly.

STEP 6:



- Cut a 25mm long piece of 10mm diameter heat shrink.
- Slide the ferrite choke back up to the motor housing, slide the heat shrink over it, and shrink the heat shrink with a heat gun.
- Complete the reassembly of the motor assembly as normal.