



MOSFET INSTALLATION INSTRUCTIONS

Version 7 Gearbox Guide

FOR: M14

WIRING DIAGRAM BEFORE: WIRING DIAGRAM AFTER:

SORRY, NOT AVAILABLE
AT THIS TIME

[IF YOU ARE INTERESTED IN
CREATING A WIRING DIAGRAM
FOR US TO USE IN THIS GUIDE,
PLEASE EMAIL US AT
HHAIRSOFT@GMAIL.COM]

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ATTENTION: HH Airsoft recommends that our custom MOSFET products be installed by professional airsoft gunsmiths. The installation process assumes the buyer is able to disassemble and reassemble the AEG and Gearbox for which the MOSFET is being installed. Rewiring and Soldering is required for installation; therefore, some electrical and mechanical skills are necessary. If you are unsure of your abilities, please seek the help of an experienced airsoft technician. Proper installation is the sole responsibility of the individual performing the modification to their gearbox. HH Airsoft is not responsible for any damage caused by incorrect installation. And always remember to be safe with your guns!

NOTE: THE DISASSEMBLY OF AIRSOFT GUNS, ESPECIALLY THE GEARBOX, GENERALLY VOIDS THE MANUFACTURE'S WARRANTY.

DO SO AT YOUR OWN RISK!!!



Tools Required:

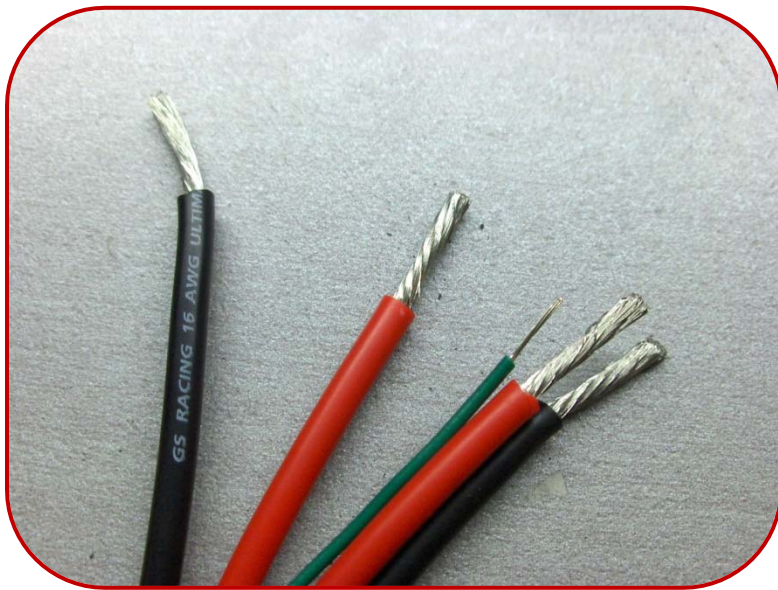
- Soldering Iron or Soldering Gun
- Solder (larger gauge is better)
- Wire Strippers
- Set of screwdrivers for gearbox removal

CAUTION: This product contains components that are easily damaged by electrostatic discharge (ESD). To reduce the chance of ESD damage, work over a non-carpeted floor, use a static dissipative work surface (like a conductive foam pad), and wear an ESD wrist strap that is connected to a grounded surface, like the metal frame of your workbench.



~ Step 1 ~

Decide where you want to put the MOSFET. Its location doesn't matter in the slightest, as long as the green gate wire reaches the gearbox.



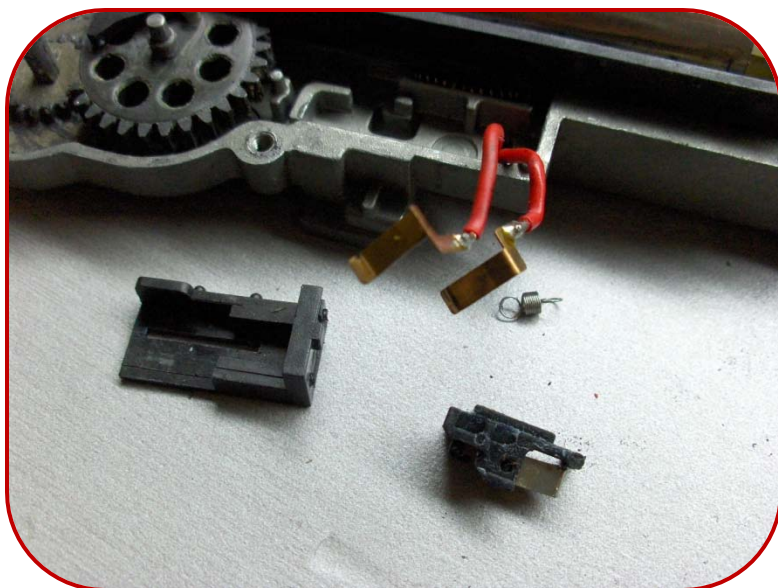
~ Step 2 ~

Strip approximately 1/4in. - 1/2in. from the ends of each of the 5 wires coming from the MOSFET Unit and pre-solder the ends of each.



~ Step 3 ~

Disassemble your M14 and remove the gearbox. Then remove the screws holding the gearbox together and split it in half.



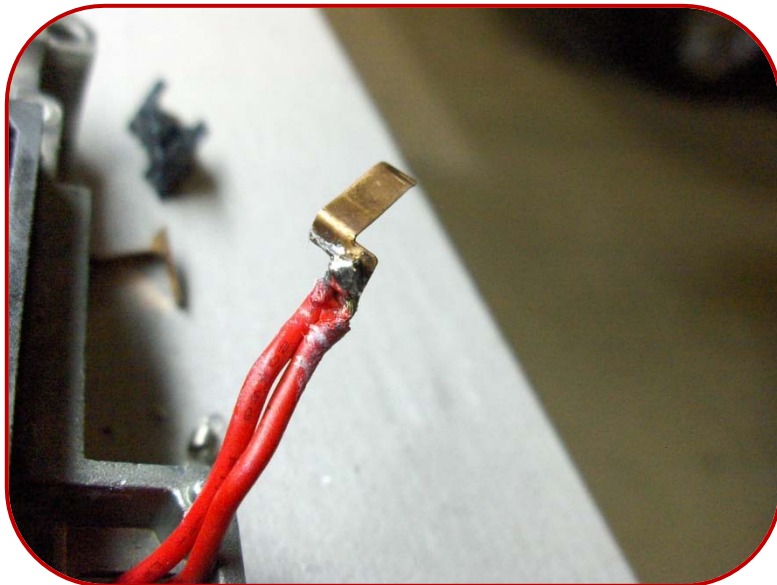
~ Step 4 ~

Disassemble the trigger contact assembly by removing the 2 screws on the side.



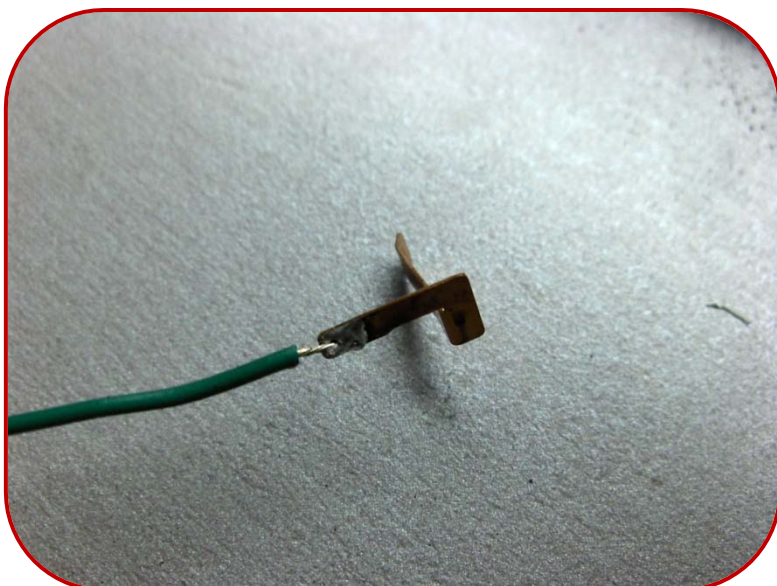
~ Step 5 ~

Unsolder the wires from the trigger contacts. Remember which wire attaches to each contact.



~ Step 6 ~

Solder both wires to the contact that was originally attached to the wire leading from the motor.



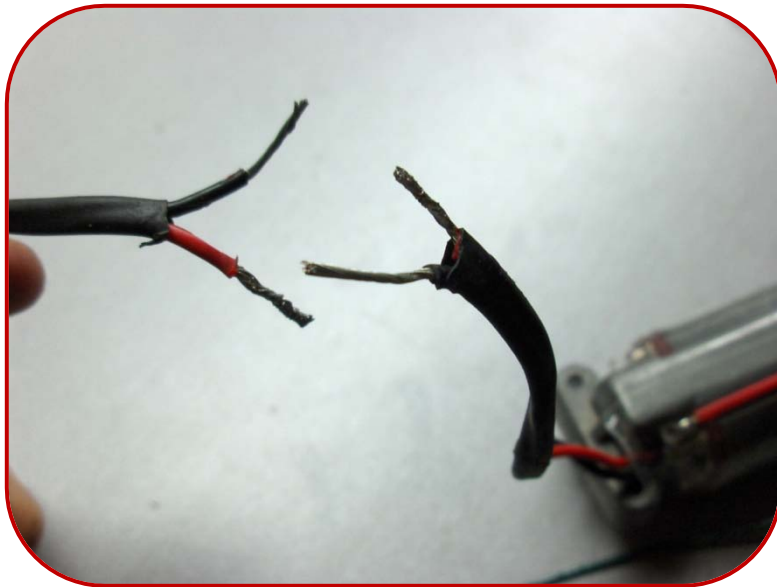
~ Step 7 ~

Solder the green gate wire leading from the MOSFET unit to the other contact.



~ Step 8 ~

Re-assemble the trigger contact assembly. It may need some modification to fit. Ensure a proper fit of all wires and check that no wires are being pinched by any part of the



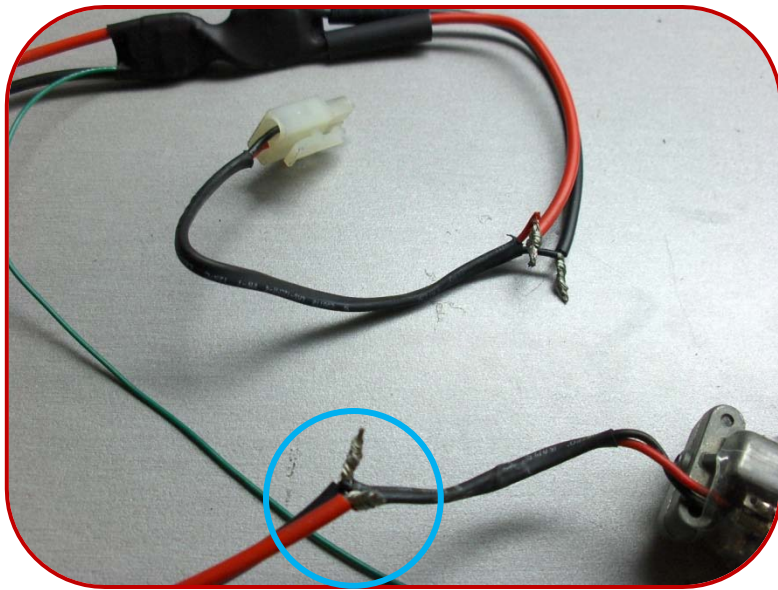
~ Step 9 ~

Re-assemble the gearbox. Then, cut the wires leading from your gearbox to the battery and strip the ends of each them.

~ Step 10 ~

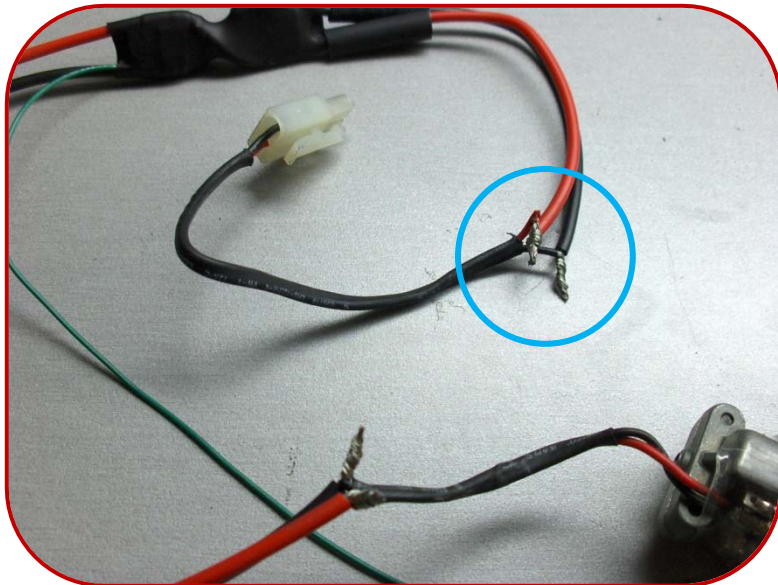
Take a moment and look at the MOSFET unit. There are a total of 5 wires coming out from the unit. The side with only 2 wires (one negative and one positive) are your new battery wires. The side with 3 wires (Positive, Negative, and green "Gate" wire) are the wires that go to your gearbox. We will call these the gearbox wires.





~ Step 11 ~

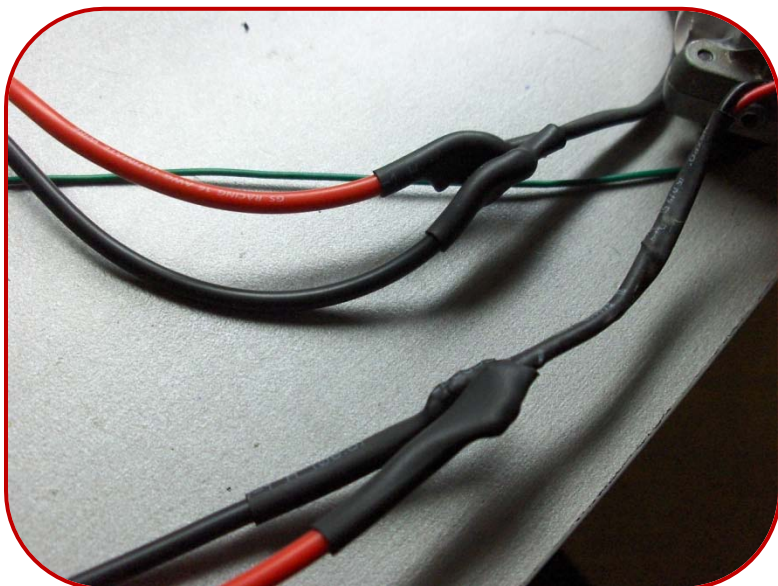
Solder the Positive and Negative MOSFET Gearbox Wires to the wires leading from your motor. (Optional: If you wish, the Gearbox wires can be soldered directly to your battery contacts)



~ Step 12 ~

Solder the Positive and Negative MOSFET Battery Wires to your old battery connector.

(FYI: Deans connectors are a great addition to any AEG)



~ Step 13 ~

Heat shrink or electrical tape should be used to cover all exposed wires to prevent shorts.

~ Step 14 ~

Re-install your gearbox and new MOSFET unit into your gun. Once your gun is completely re-assembled, attach your battery and test your gearbox trigger to ensure the MOSFET is installed correctly and that the entire assembly is working properly..

Your MOSFET is now successfully installed and your AEG is ready for use!

Questions ???

If you have any questions about the installation process please feel free to email us at hhairsoft@gmail.com.



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