



MOSFET INSTALLATION INSTRUCTIONS

Version 3 Gearbox Guide

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]

SORRY, NOT AVAILABLE
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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.

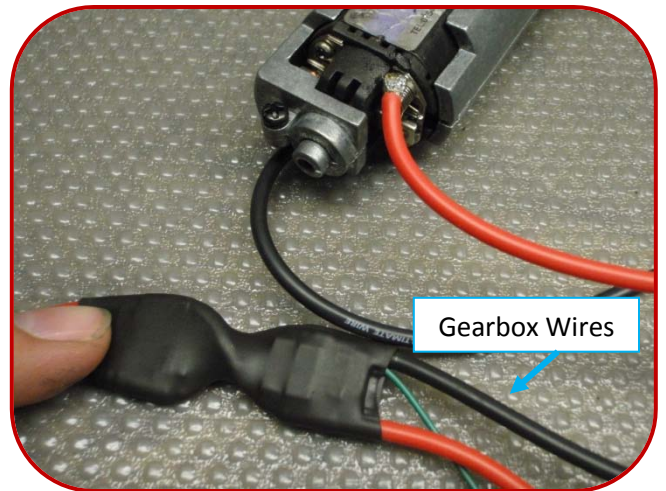
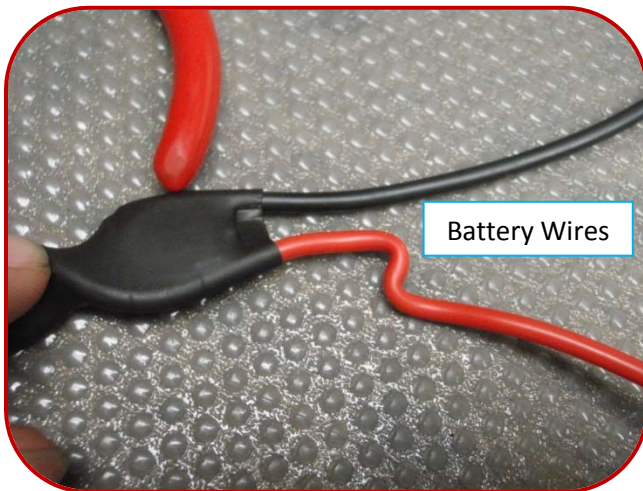


~ Step 2 ~

Disassemble your AEG
and remove the gearbox.

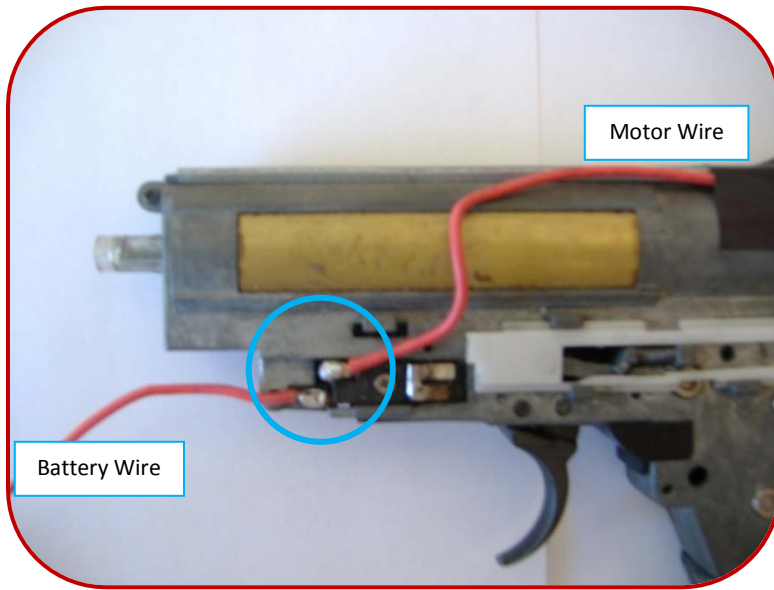
~ Step 3 ~

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*.



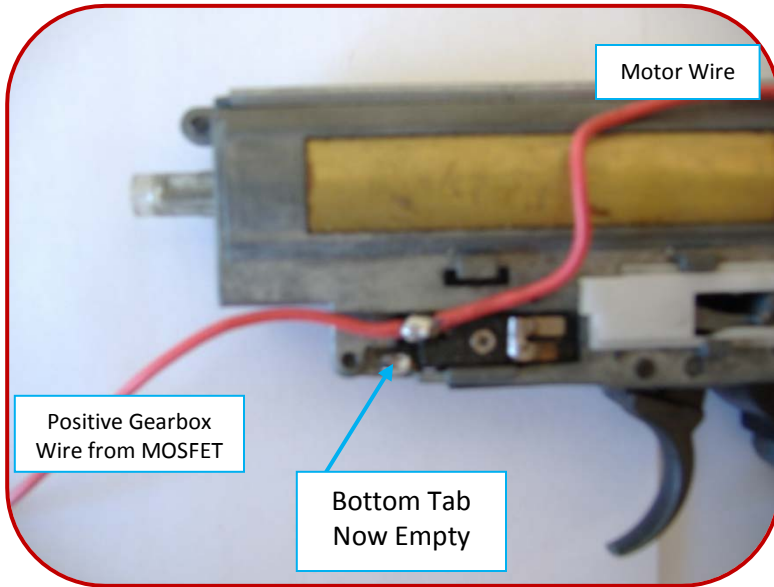
~ Step 4 ~

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.



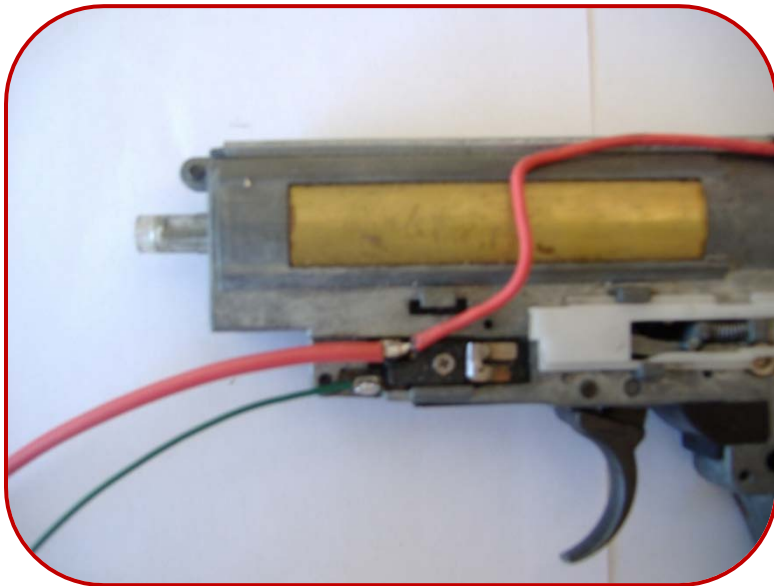
~ Step 5 ~

Notice the two red wires soldered near the trigger. Take the bottom wire and, using the soldering iron, remove it from the metal tab. This wire will no longer be used.



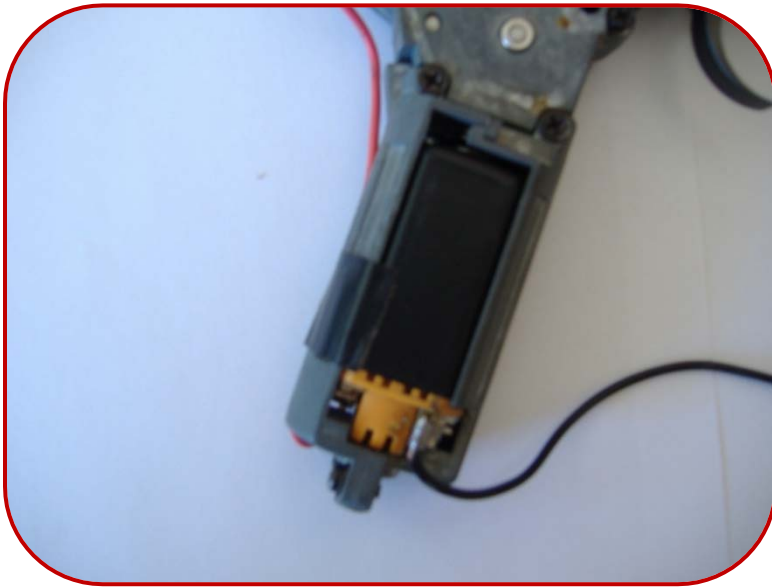
~ Step 6 ~

Solder the Positive (Red) Gearbox Wire from your new MOSFET onto the upper metal tab so that both wires are now sharing the same connection.



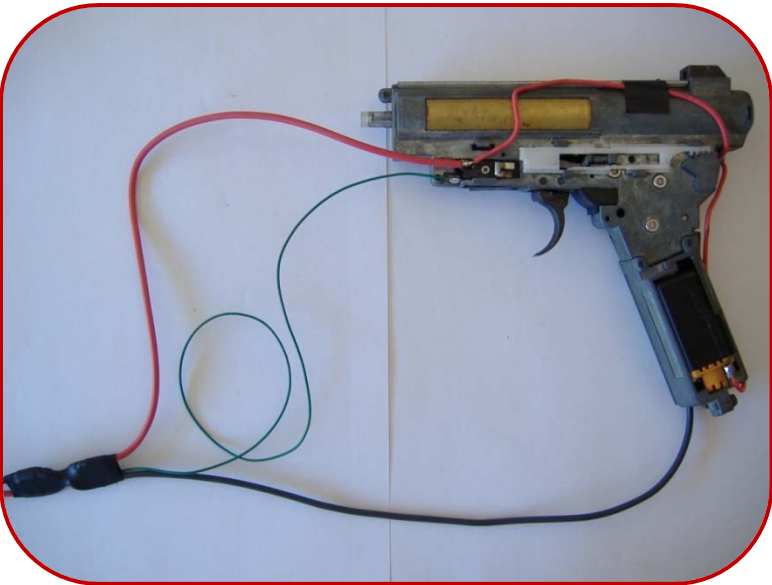
~ Step 7 ~

Now, take the green gate wire and solder it to the now-empty lower metal tab.



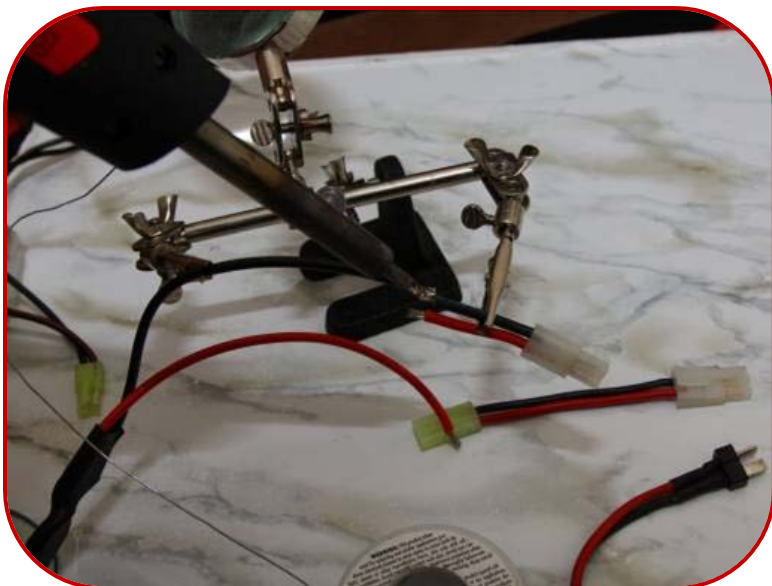
~ Step 8 ~

De-solder the Negative (black) wire that was attached to your motor. You will no longer need that wire.



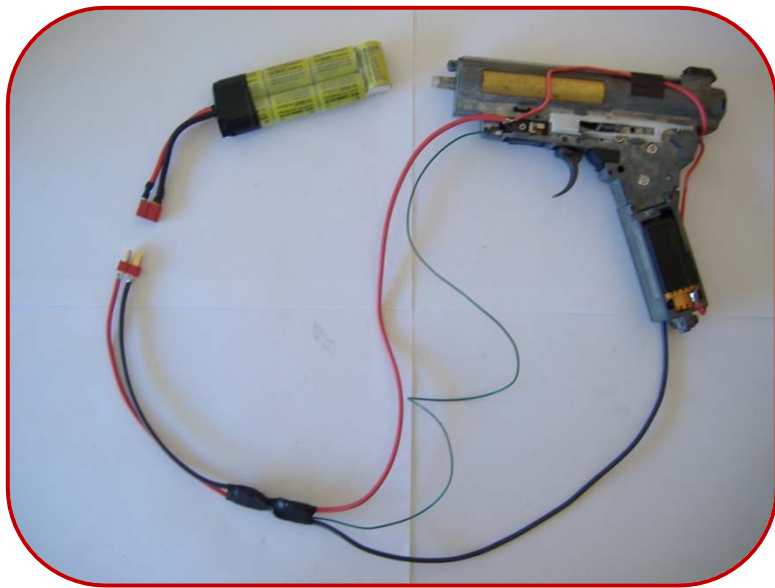
~ Step 9 ~

Solder the Negative (Black) Gearbox Wire from your new MOSFET onto the now-empty negative battery terminal. You should now have 3 wires going from your MOSFET into your gearbox (as shown at left).



~ Step 10 ~

Solder your desired battery connector (tamyia, deans, etc.) onto the positive and negative battery wires of your MOSEFT unit.



~ Step 11 ~

Check all connections and look for any short circuits you might have (this includes exposed wires touching the gearbox shell). Your completed assembly should resemble the picture at left.

~ Step 12 ~

Attach your battery and test your gearbox trigger to ensure the MOSFET is installed correctly and that the entire assembly is working properly. Heat shrink or electrical tape should be used to cover all exposed wires and soldering joints to prevent shorts.

~ Step 13 ~

Re-install your gearbox and new MOSFET unit into your gun. Ensure a proper fit of all wires and check that no wires are being pinched by any part of the gearbox or AEG shell.

~ Step 14 ~

Once your gun is completely re-assembled, attach your battery and test your gearbox trigger once again.

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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