



## Compatibility with high-ROF and high-power builds

Perun MOSFET can work with even the most demanding setups, both regarding rate of fire and muzzle velocity.

### Fuse

Never run your replica without a fuse. It protects the battery, motor, as well as the electronics. We recommend using automotive fuses with current range from 25A to 40A, as they are best suited for use in airsoft replicas. Perun MOSFET with wiring comes with already soldered fuse connectors and a 30A mini automotive fuse.

### Battery connector type

Perun MOSFET in its version with wiring comes with an already soldered T-Plug connector.

## 2. Installation

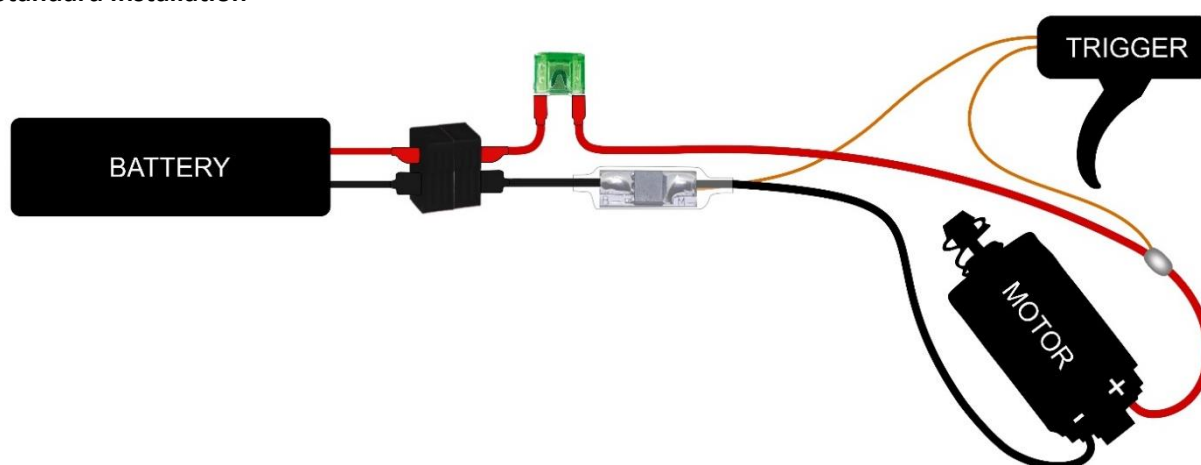
Put wires together according to one of the schemes below. It is important to carefully follow the instructions below. Any deviations may result in permanent damage to the mosfet and warranty loss.

- All the soldering pads that are separate, should remain separate after soldering. Make sure you do not solder together things, that were not on the same pad before soldering.
- Make sure to insulate all exposed electrical elements that move freely or may touch other parts. Some examples of parts that need to be insulated are listed below, but in some cases that list may not be full:
  - Wire-to-wire joints (especially positive motor wire to signal wire)
  - Motor connectors
  - Battery connector soldering pads
  - Fuse connectors
  - The MOSFET itself

In some cases, it is better to also insulate the trigger contacts soldering pads for safety

- For insulation use heatshrink tubes wherever possible or insulation tape in other cases.
- Recommended soldering temperature is around 300° Celsius.
- When soldering trigger contacts, it does not matter which signal wire you connect to which soldering pad of the contacts.

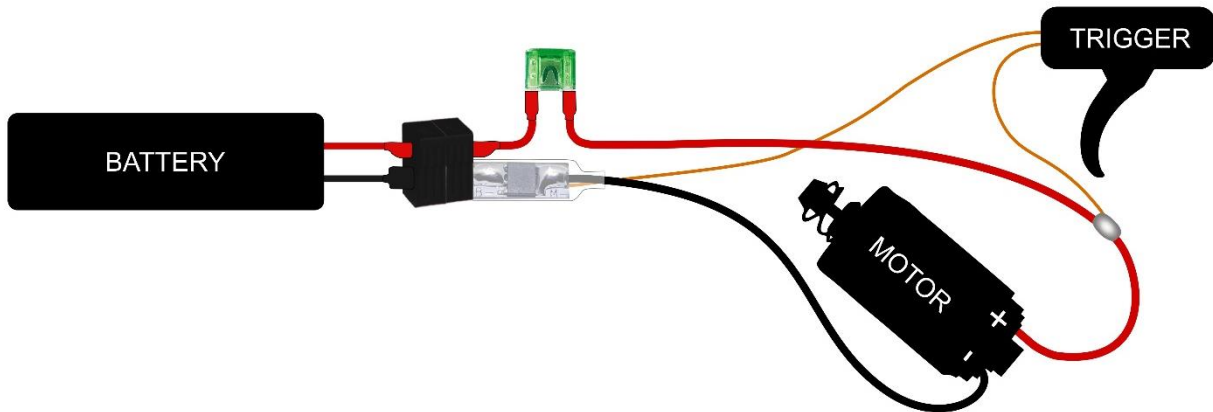
### Standard installation



This is the standard installation scheme. If you are using a version 2 gearbox and would like to make it easier, please have a look at the “One signal wire” scheme. Before cutting the wires, make sure you got the lengths right!

### With Perun MOSFET soldered directly to the Deans plug

This is how Perun MOSFET with wiring arrives. Perun MOSFET in version without wiring can also be soldered this way, but it needs skill and experience in soldering. The benefit here is, that the mosfet takes a little bit less space, you need one soldering joint less... and it looks cool.



### One signal wire

When installing Perun MOSFET in version 2 gearboxes, you can get rid of one signal wire and avoid making a wire-to-wire connection, that might be difficult to do properly if you are not experienced in soldering. The other benefit is, that there is only one wire passing below the motor gear and no stiff joints between the fuse and the contacts.

Follow these steps:

1. Lead the positive motor wire (red, thicker one) from the battery to the contacts.
2. Remove a fragment of the insulation in mid of the positive motor wire (**without cutting it into two pieces**) and solder it to one of the soldering pads on the trigger contacts.
3. Channel the positive motor wire back and further to the motor.

