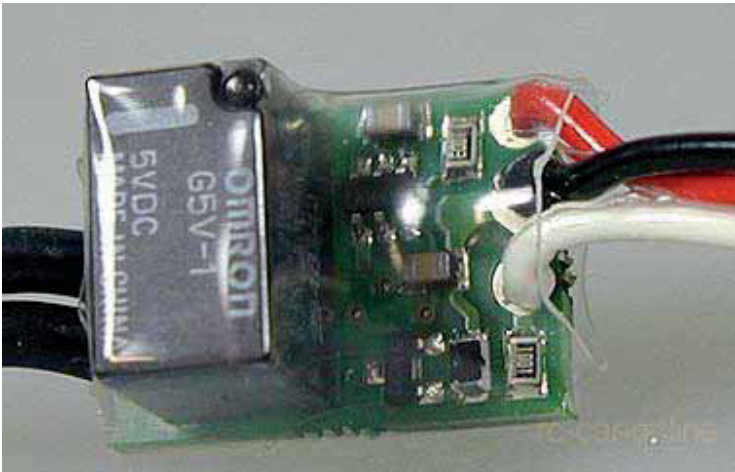


## Operation / Features

- Engine stop with failsafe activation
- Engine stop via 3rd or 4th channel
- Engine when signal too weak
- Engine stop at faulty signal
- Engine stop when voltage of the receiver battery drops below ~ 4.7 volts
- Engine stop in case of complete loss of receiver voltage supply
- With status indicator to analyze disturbances occurred
- Compatible with all RC systems including Futaba HRS and Spectrum DX3R with 5.5ms frame rate
- Connectors for motor included
- Integrated reverse polarity protection for the module



## Technical Data

- Voltage range: 5V - 12V
- Power consumption at 6-volt operation: Min 4mA - 46mA normal - Max 61 mA
- Operating temperature: -10 °C - +60 °C
- Dimensions (LxWxH): 18mm x 14mm x 12mm
- Weight: 20g.
- Micro mechanical relay
- Operation: ignition kill switch (relays)
- Monitoring principle: Microprocessor controlled signal and voltage measurement
- Display: status LED's red and blue

## The minimum requirements for the operation:

For the operation of this module your model and rc-system must fulfill the following requirements:

- A gasoline engine with magneto ignition and stop switch



- An rc-system with a free channel on the transmitter (3rd channel in case of a single brake servo or 4th channel if you use two mixer controlled brake servos)



## Functional principle:

This module constantly reviews microprocessor controlled the signals from the receiver for glitches and the receiver power supply for sufficiently high voltage (min. ~ 4.7 volts). If the signals or the power supply fall under the level required for safe operation the module shuts the engine off by briefly closing the ignition via the integrated relay.

## Installation and connection

Place the module in the splash protected rc box and route the two black cables to the engine stop switch.

Connect each of the two black cables, to a terminal of the stop switch; you don't need to care for polarity at this connection.

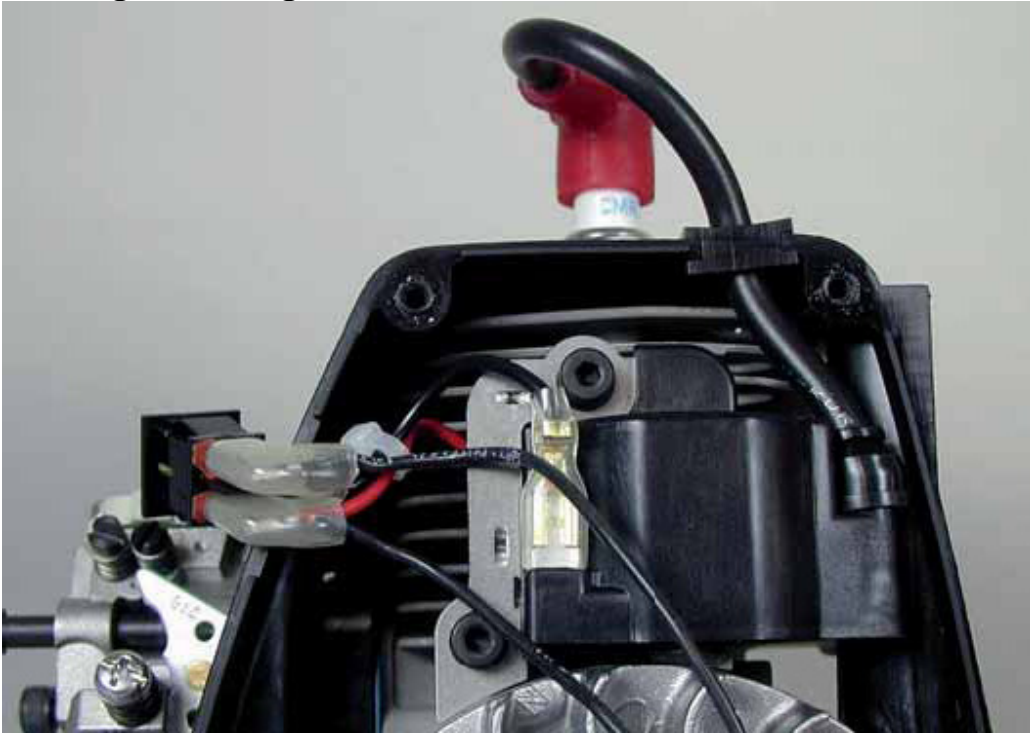
The connection should be best served by soldering t the existing connectors or done with the supplied connector plugs. In that case the original connectors must be cut and the new ones crimped on the cables.

Plug the rx-connector of the module in the free 3rd or 4th channel of the receiver.

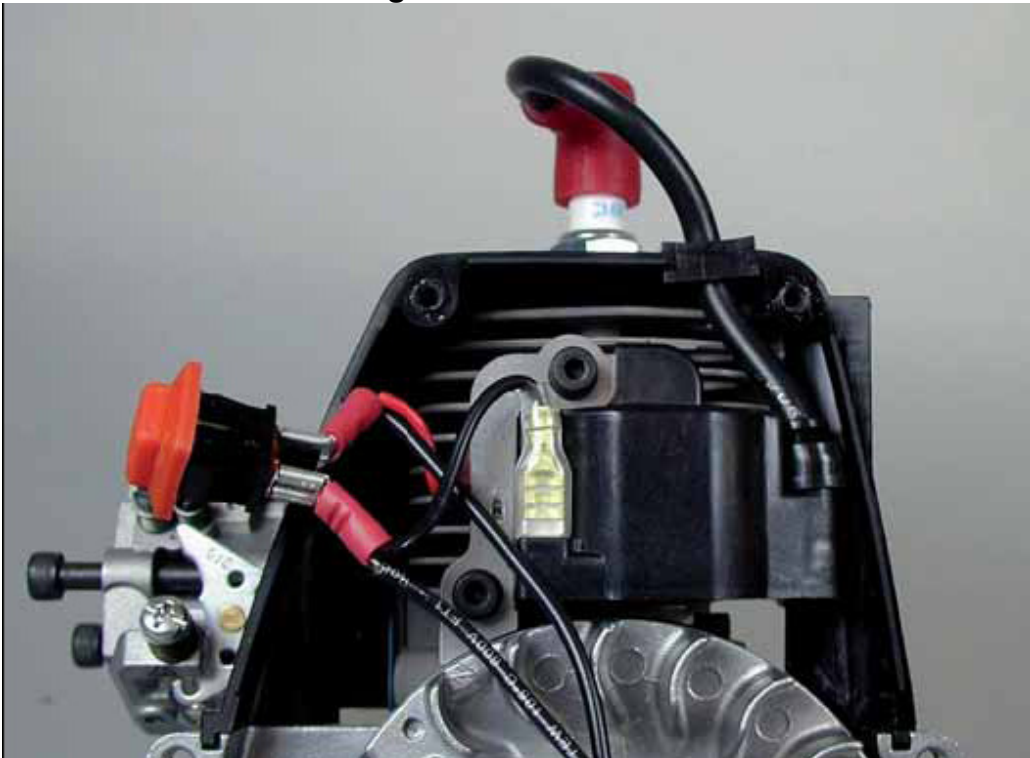
After turning the rc system on, the servo travel for the selected channel must be set to assure that in one position of the controller on the transmitter the blue status LED is on (engine can be started), while the red LED is on with the controller in the opposite position (kill switch is activated, engine cannot be started).



## Wiring the engine



**Cables soldered to existing connectors**



**Using the supplied new crimp connectors**

## Functioning of the status display

Status	LED Indicator	Cause / Display
normal operation	blue on / red off	signal and power supply OK
signal failsafe	blue off / red on	signal faulty or too weak
signal failsafe within the last 30 seconds	blue on / red blinking	failsafe activated within the last 30 seconds
battery failsafe	blue off / red blinking rapidly	voltage too low (below ~4,7V)
engine stop	blue off / red off	rx voltage supply interrupted

If you have any further technical questions please contact us:

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