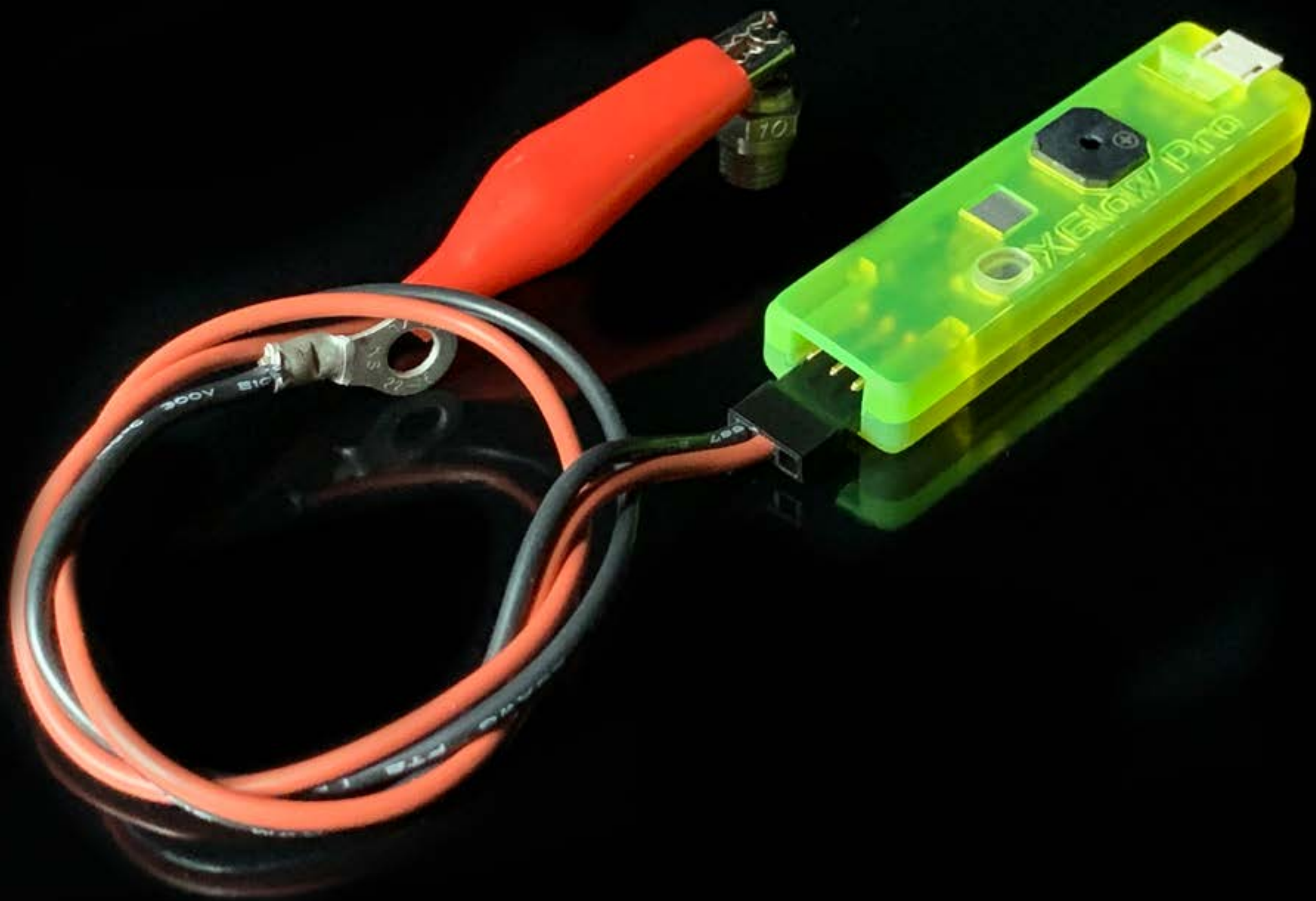




XGlow Pro



Users Guide

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LIABILITY DISCLAIMER

This device is for use exclusively on a radio controlled (RC) model. RC models are not toys. Moving parts can present a hazard to operators, bystanders and anyone or anything that could be reached by the RC model. Improper operation, maintenance or assembly can potentially cause an RC Model to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death. After leaving its facilities the manufacturer has no way of maintaining control or supervision over the assembly and/or operation of the RC model or the addition of this device to the RC Model therefore the manufacturer and/or its agents assume no responsibility or liability whatsoever for any damages including but not limited to ones generated by incidental or consequential damages. The operator of the RC Model assumes all responsibility and liability that could result from the correct or incorrect operation of the RC Model.



This product is intended to be used by experienced adult radio control model operators under controlled safety conditions and on locations properly authorized and setup for safe flying and away from other people. This product must not be operated without reasonable personal or commercial Liability Insurance.



Under no circumstance should a minor be allowed to operate any radio controlled model without the approval, supervision and direction of his parent or legal guardian who takes full responsibility and assumes full liability of every kind for the minor's actions.



Do not operate an RC models within the vicinity of homes, trees, electrical lines during inclement weather or rain or near crowds of people.

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←RPM Sensor and Remote Pushbutton cable connector

RPM
Remote
Pushbutton

Indicator lights →
(Blue always blinks)

←ON Pushbutton

Multi-Tone Buzzer →



- +
Signal

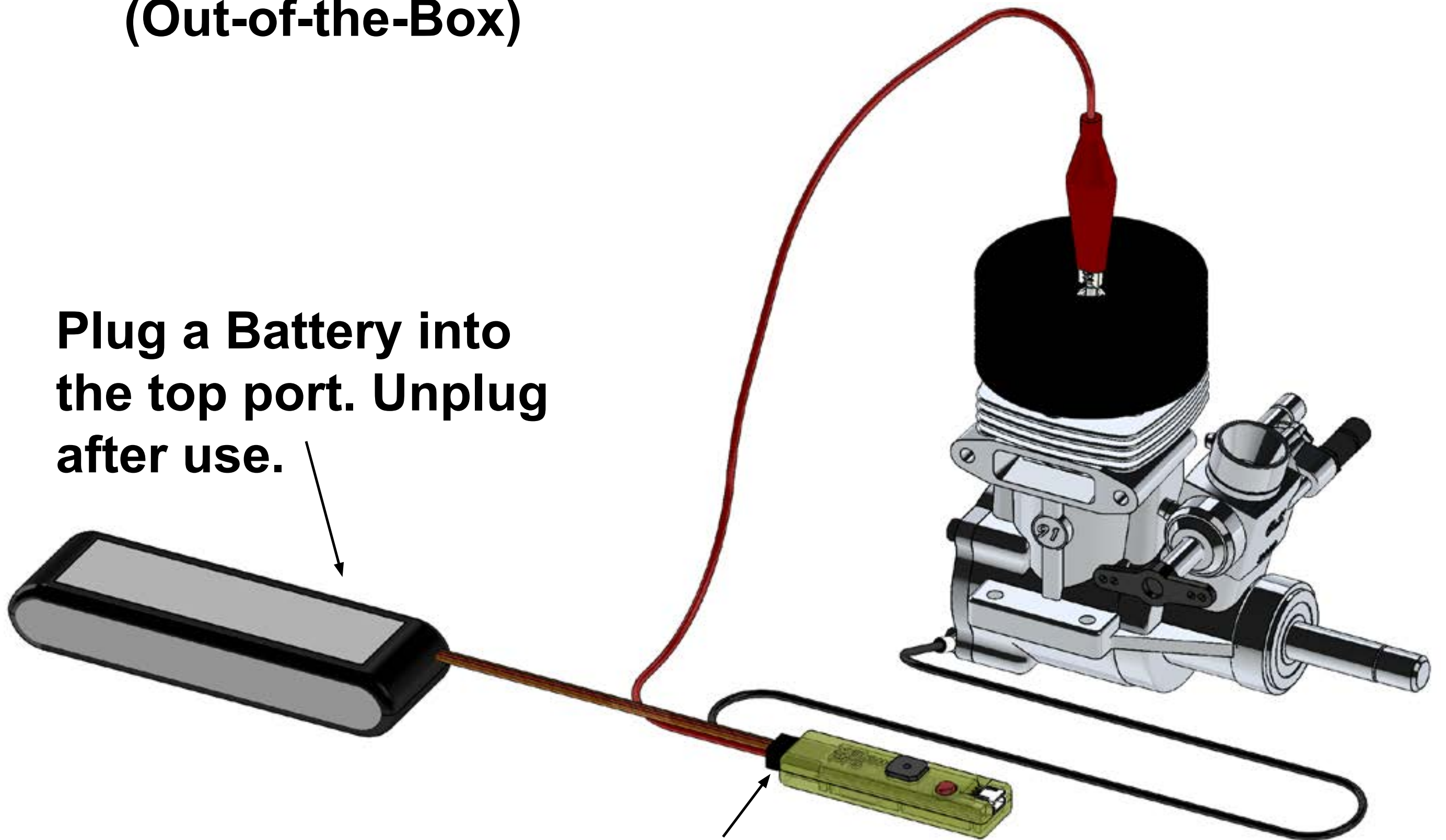
Switch Channel (TOP) →
Glow Plug (BOTTOM) →
& Optional Throttle Channel



INSTALLATION MODES

A) SIMPLEST INSTALLATION (Out-of-the-Box)

**Plug a Battery into
the top port. Unplug
after use.**



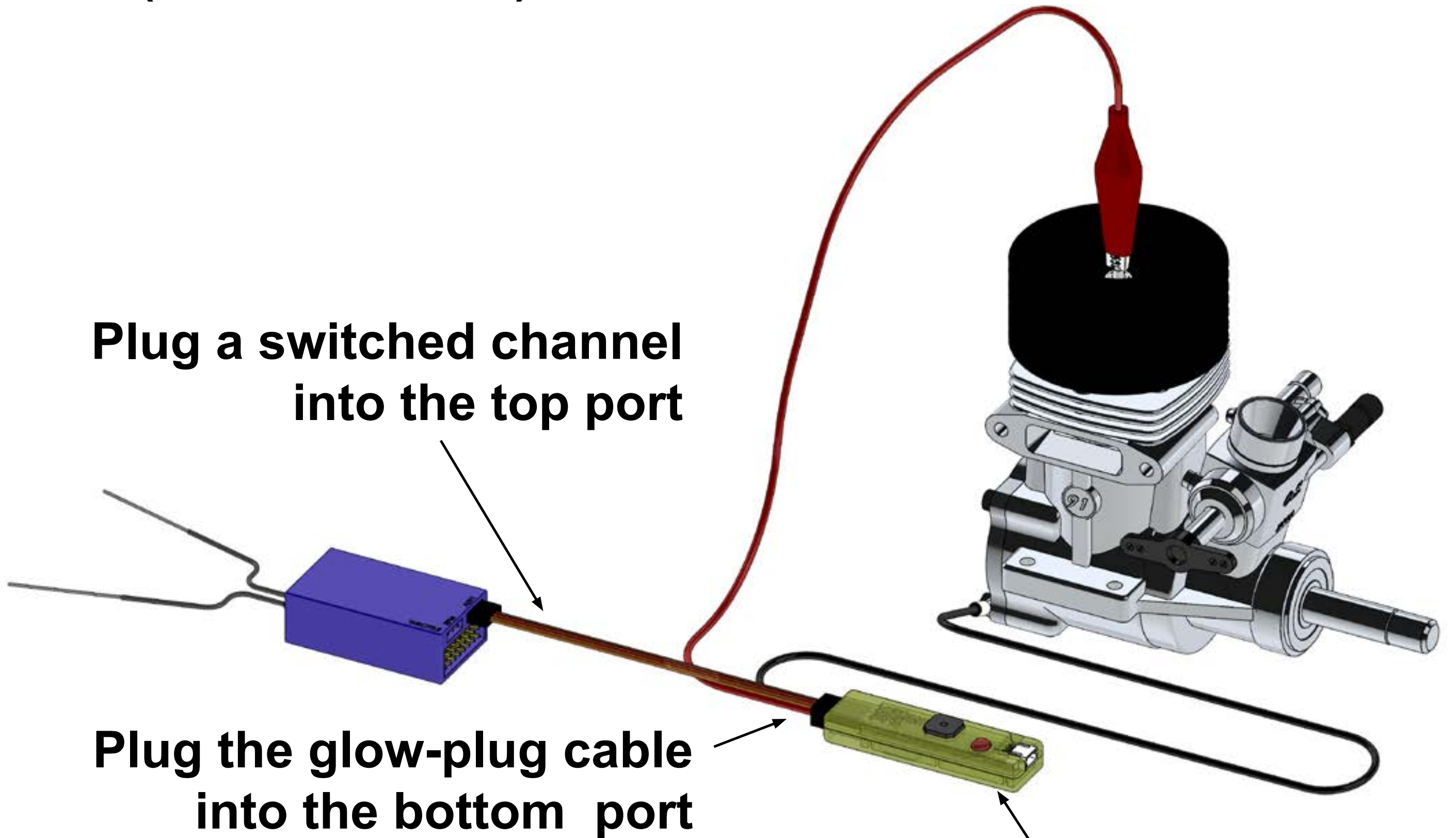
**Plug the glow-plug cable
into the bottom port**

**Turn on by pushing
the red button**

Using this configuration out-of-the-box the unit will use the default Factory settings.

If interested, see programming section for an explanation of the available settings.

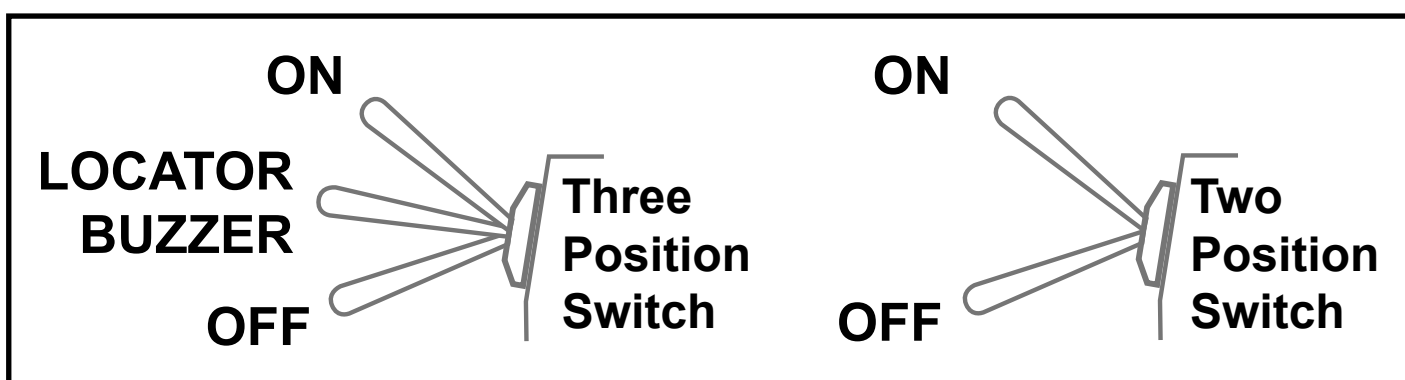
B) SWITCHED ON BY RADIO SWITCH (as above+Switch) (Out-of-the-Box)



**Plug a switched channel
into the top port**

**Plug the glow-plug cable
into the bottom port**

**Turn on by either using
the radio switch or by
pushing the red button**



Using this configuration out-of-the-box the unit will use the default Factory settings.

If interested, see programming section for an explanation of the available settings.

C) WITH ANTI-HOT-START (as above +Throttle Stick supervised) (Out-of-the-Box)

Plug a switched channel into the top port

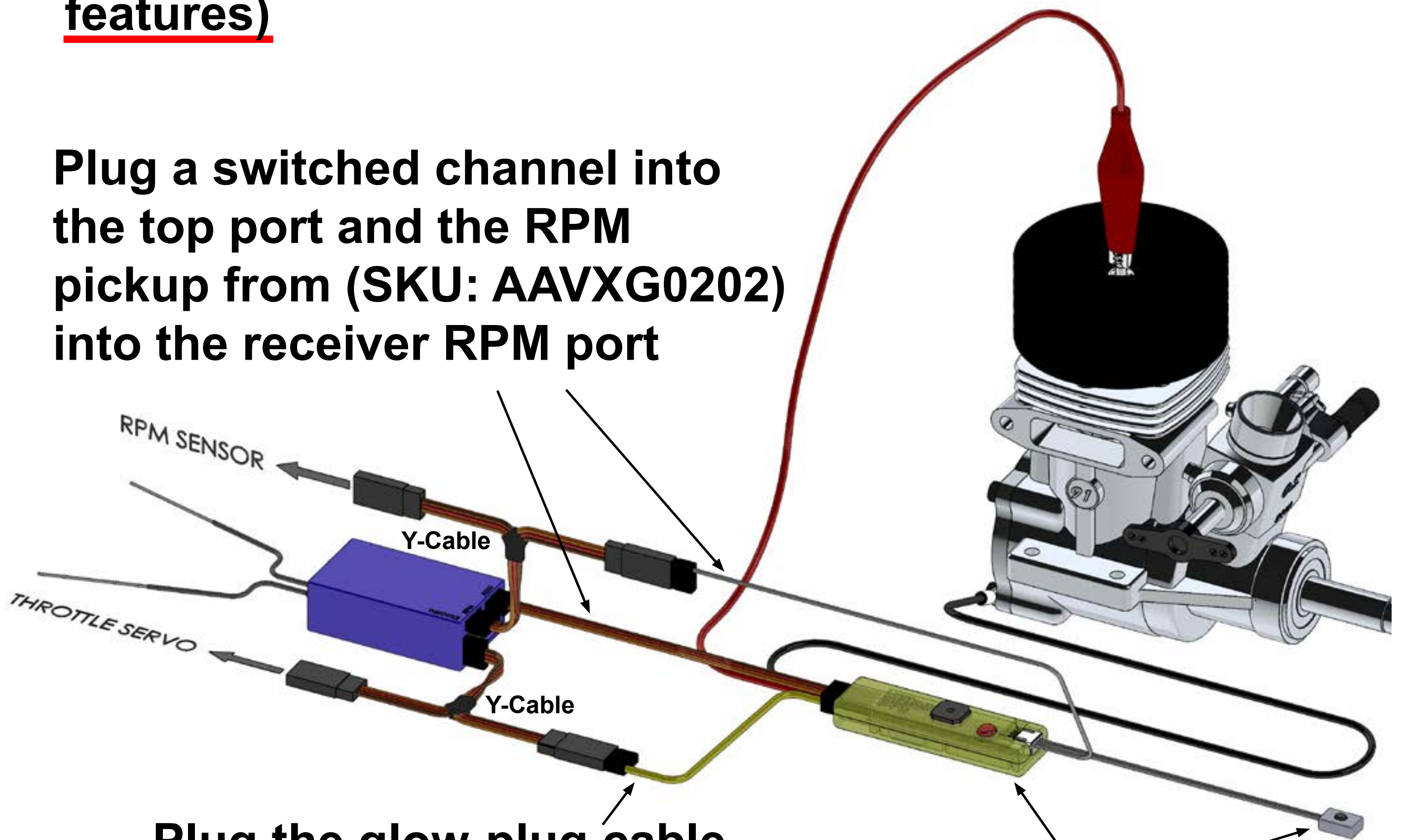
Plug the glow-plug cable into the bottom port and add the throttle pickup wire (SKU: AAVXG0204)

Turn on by either using the radio switch or by pushing the red button

Using this configuration out-of-the-box the unit will use the default Factory settings. It won't turn on unless the throttle is above standard (not reversed) throttle idle. **For reversed throttle idle, see programming section** for an explanation on how to change it.

D) WITH ANTI-CHICKEN-DANCE (as above+RPM supervised) (Out-of-the-Box + Additional programmable features)

Plug a switched channel into the top port and the RPM pickup from (SKU: AAVXG0202) into the receiver RPM port



Plug the glow-plug cable into the bottom port and add the throttle pickup wire (SKU: AAVXG0204)

Turn on by either using the radio switch, pushing the red button or the remote button

Using this configuration out-of-the-box the unit will use the default Factory settings and **won't activate the anti-chicken dance unless programmed to do so**. Please check the programming section to learn how to do it

MEANING OF THE LIGHTS

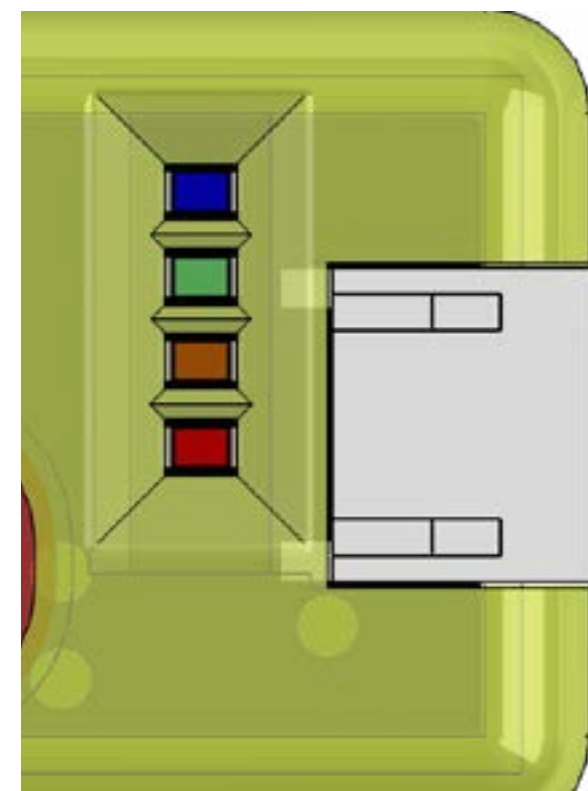
Meaning of lights when driving the plug

BLUE: Blinks indicating it's powered ON

GREEN: Glow plug is glowing normally

YELLOW: Glow plug is pulling too much current. Element is bent and touching the plug's body. Replace the plug.

RED: Glow plug is bad or alligator clip is disconnected.



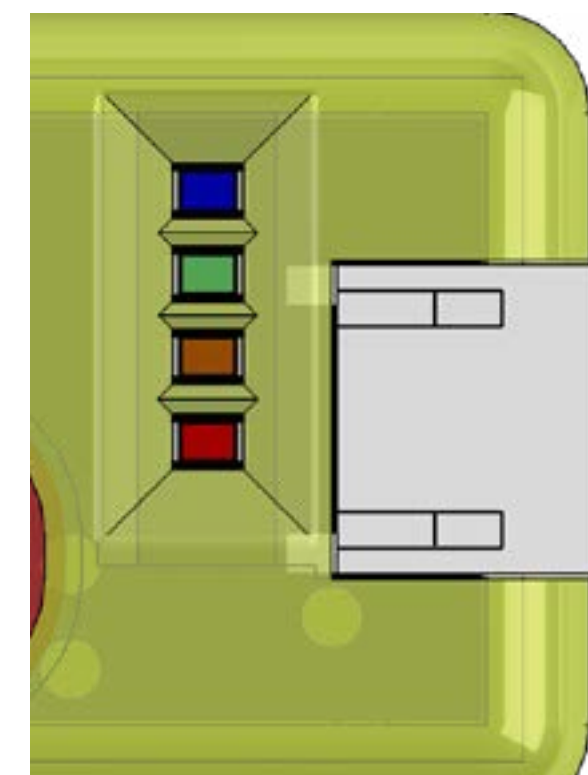
Meaning of lights when NOT driving the plug

BLUE: Blinks indicating it's powered ON

GREEN: RPM sensor signal is present.
(only when engine is running)

YELLOW: THROTTLE signal from the receiver is present.

RED: MODE Switch signal from the receiver is present (OFF/LOCATOR/ON)



PROGRAMMING THE UNIT

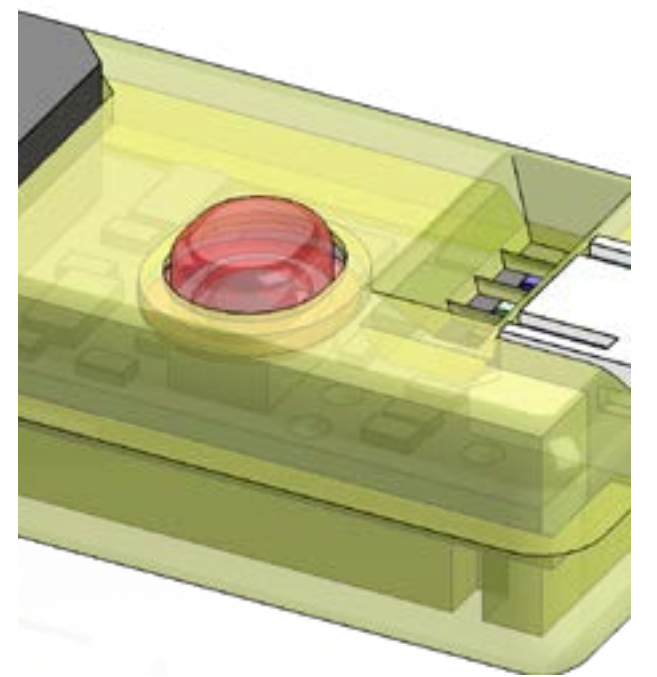
(Engine needs to be off do not attempt when engine running)

The unit has the following programmable settings:

- 1) THROTTLE IDLE POSITION (MOVE STICK TO BOTTOM)
- 2) GLOWING TIME (10,20 or 30 seconds)
- 3) GLOW DRIVING POWER LEVEL (LOW,MID,HIGH)
- 4) ANTI CHICKEN DANCE LEVEL (1, 2 or 3)
- 5) NUMBER OF ACTIVE MAGNETS (1 or 2)

Entering Programming mode

***** IMPORTANT ***** Before you enter programming mode make sure your throttle is in normal mode **so that the throttle servo moves from idle to full as you move the throttle stick**. To enter programming mode **PUSH AND HOLD** the red button **WHILE POWERING UP**. As soon as you hear the first beep release the red button.



PROGRAMMING

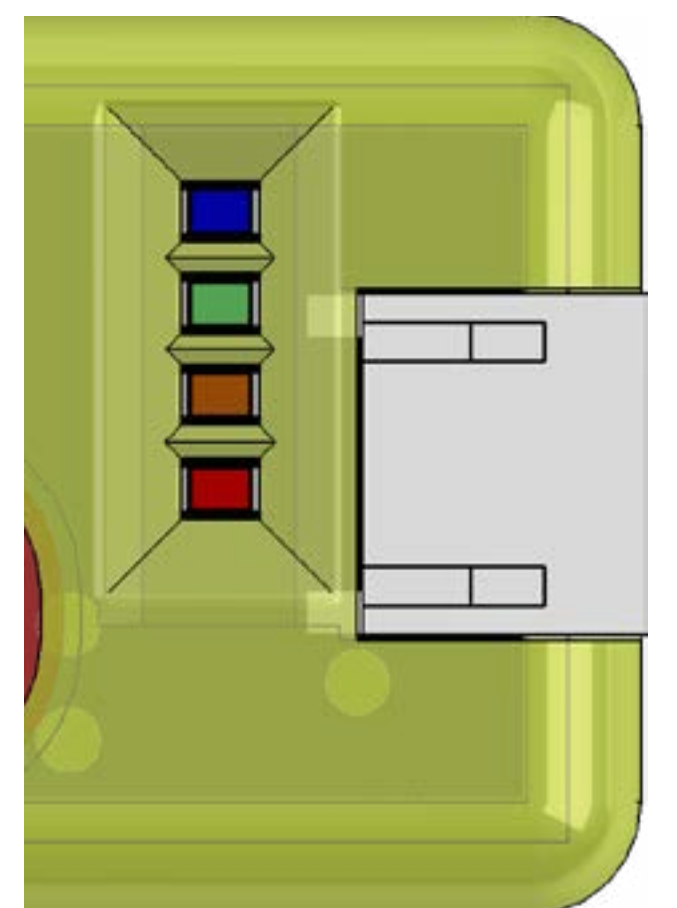
Once in programming mode you can use the throttle or if no throttle connected the three-way channel switch for selecting the red, yellow or green light to select the option's value and then followed by one short push to the red button to memorize that setting value.

BLUE: Blinks to indicate program step #



GREEN: Top setting selection

YELLOW: Middle setting selection

RED: Bottom setting selection



1 THROTTLE IDLE POSITION

If you're not using a throttle channel skip this step, if you are then after the unit enters programming mode it will beep once indicating step 1. The blue light will also blink once continuously to indicate you're programming the throttle idle stick position. Set the throttle stick to idle and press the red button . The unit will memorize where your throttle minimum is. Push the red button  to memorize and go to next step

2 GLOWING TIME

Set the throttle or three-position switch to:

- GREEN** for 30 seconds glowing time.
- YELLOW** for 20 seconds glowing time.
- RED** for 10 seconds glowing time (DEFAULT)

Push the red button  to memorize and go to next step

3 GLOW DRIVING POWER LEVEL

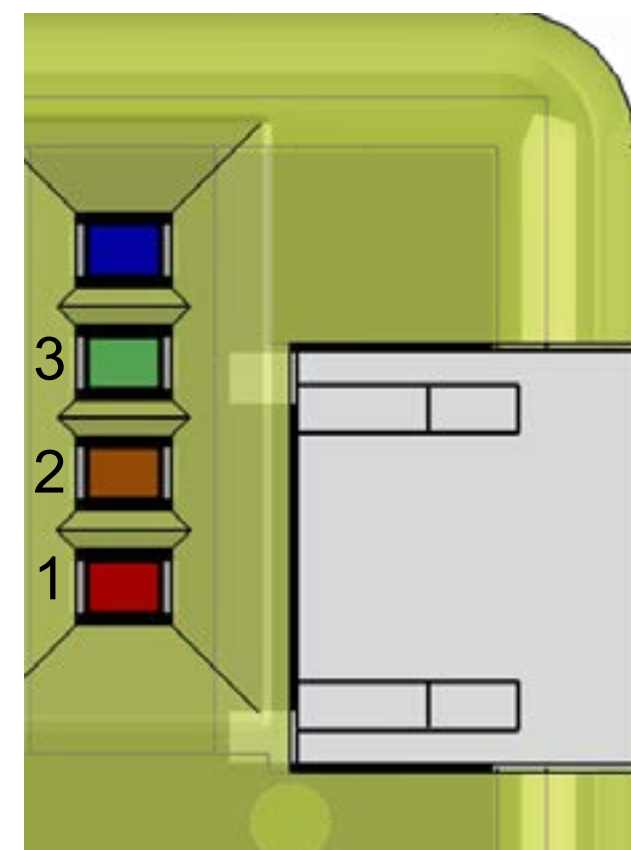
Set the throttle or three-position switch to:

- GREEN** for HIGH driving power level (ENYA 3)
- YELLOW** for MID driving power level (DEFAULT)
- RED** for LOW driving power level

Push the red button  to memorize and go to next step

4 ANTI CHICKEN DANCE MODE

If installed with RPM sensor cable (SKU: AAVXG0202). The



XGlow has the exclusive ability to attempt to stop a runaway engine when one of two engine runaway conditions are detected as follows:

The first set of conditions is:

1) The throttle signal disappears such as a disconnected throttle cable from the receiver while at the same time the RPM sensor indicates the engine is in high RPM with no throttle control.

In this case the XGlow Pro if programmed to attempt throttle control will first attempt to control the engine by generating the missing throttle stop signal to make the engine stop. It waits about a second and if there is no change in the RPM then, if programmed to do glow plug burn, will resort to burning the plug to force the engine to stop.

The second set of conditions is:

2) The throttle signal goes to idle such as when the pilot tries to stop or idle the engine while at the same time the RPM sensor indicates that the engine is still under high RPM indicating the servo might be disconnected.

In this case the XGlow Pro, if programmed to do glow plug burn, will resort to burning the plug to force the engine to stop.

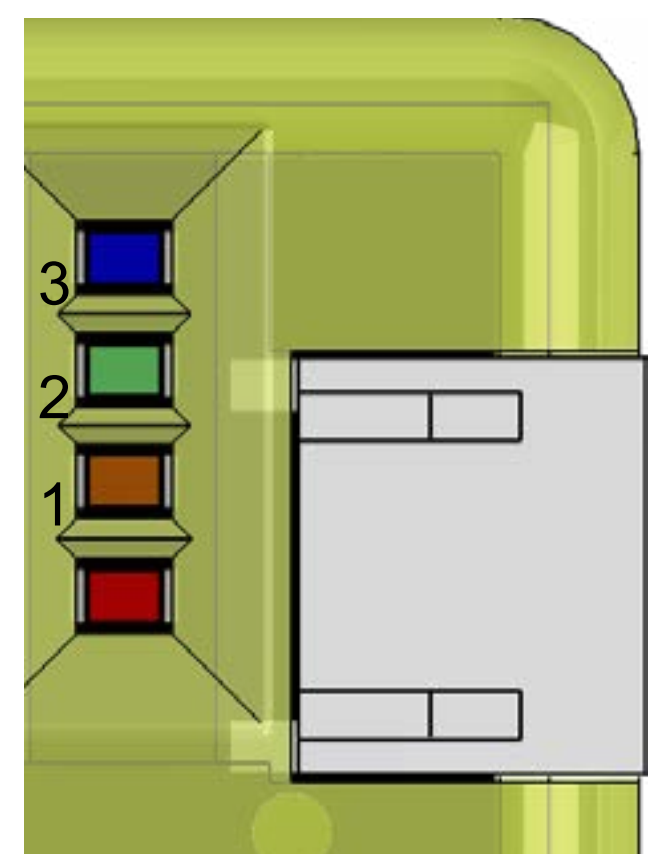
Set the throttle or three-position switch to:

GREEN for THROTTLE SERVO + BURN THE PLUG

YELLOW for THROTTLE SERVO ONLY (DEFAULT)

RED for NO ANTI-CHICKEN-DANCE ATTEMPT

Push the red button  to memorize and go to next step



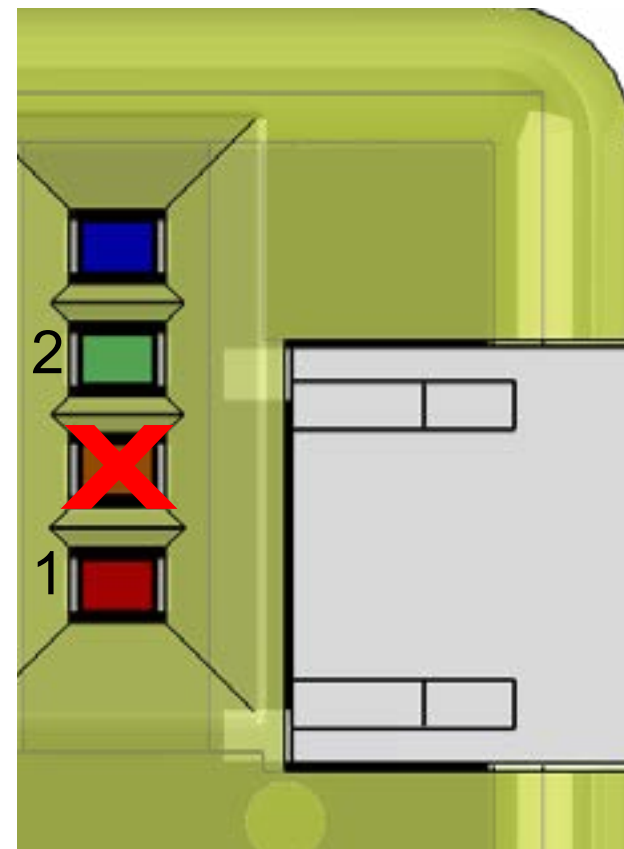
5 NUMBER OF ACTIVE RPM SENSOR MAGNETS

Set the throttle or three-position switch to:

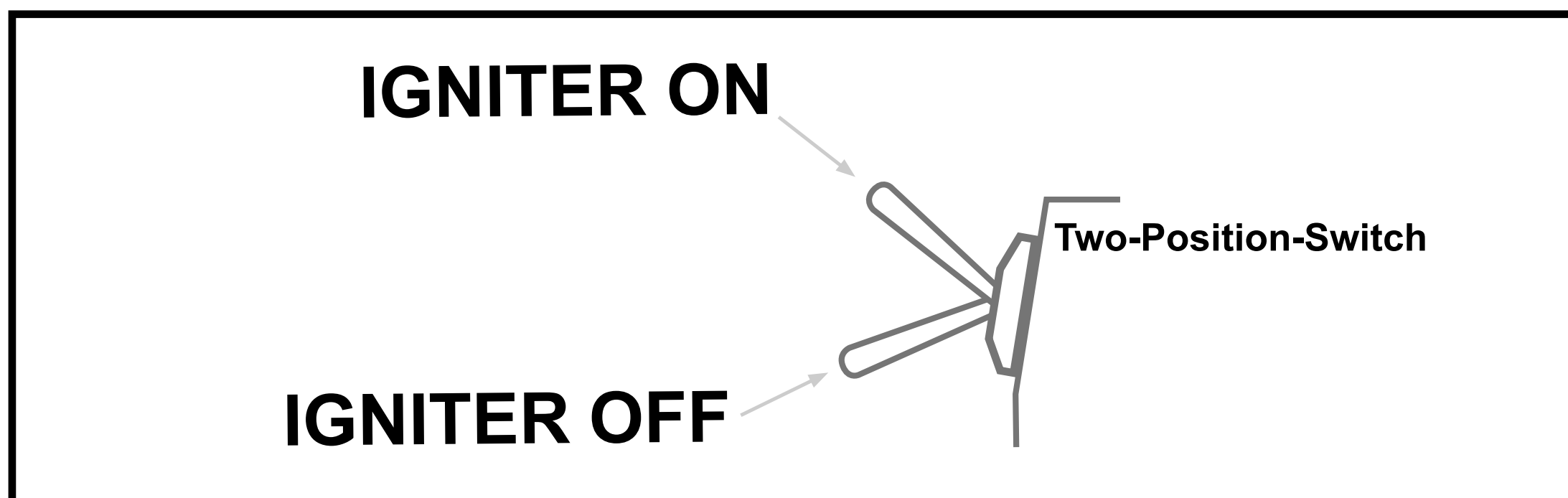
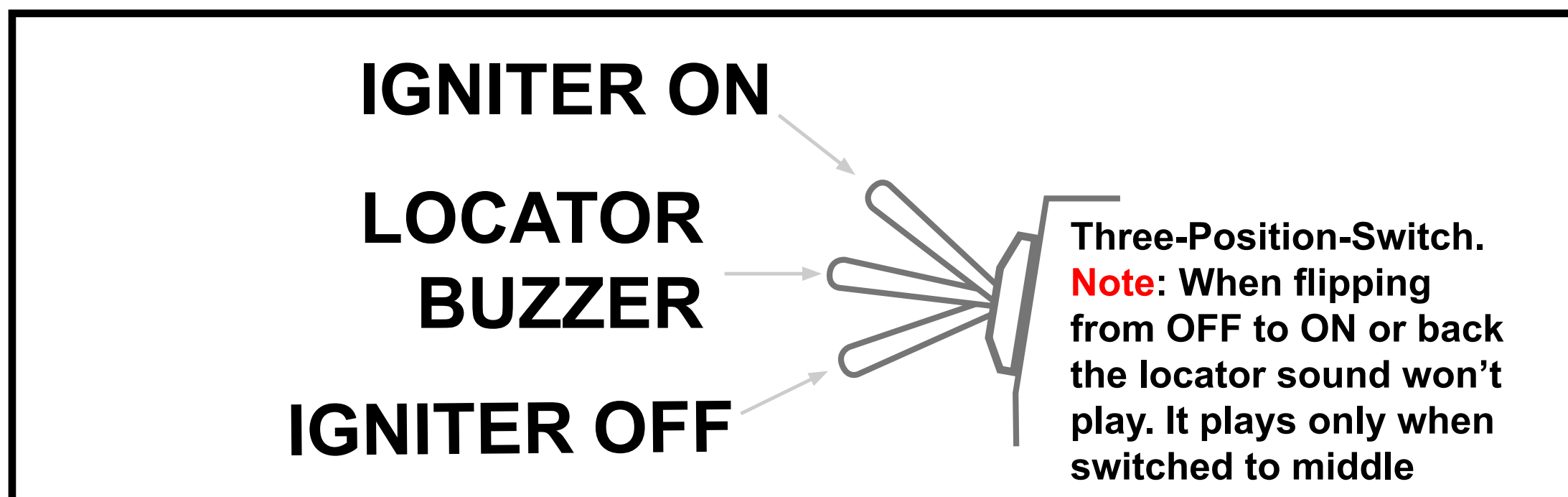
GREEN for 2 active magnets

RED for 1 active magnets (DEFAULT)

Push the red button  to memorize and finish.



RADIO'S SWITCH POSITIONS



Note: If the positions are reversed go to the radio's setting screen and reverse the switch channel.

MUSICAL TONES MEANING

NORMAL OPERATION:

- 1) Power UP tone

PLAY SOUND

- 2) Plug being drive by the XGlow Pro

PLAY SOUND

- 3) Locator Alarm tone

PLAY SOUND

ERROR TONES:

- 1) Throttle not in idle tone

PLAY SOUND

- 2) Bad Plug or Plug Disconnected

PLAY SOUND

- 3) Deffective Plug or Alligator clip shorting with engine

PLAY SOUND

DURING PROGRAMMING:

- 1) Enter Programming Section

PLAY SOUND

- 2) Programing steps:

Enter 1

1

Enter 2

2

Enter 3

3

Enter 4

4

Enter 5

5

Exit 1

1

Exit 2

2

Exit 3

3

Exit 4

4

Exit 4

4

- 3) Exit Programming Section

PLAY SOUND