



Users Guide

Copyright 2020-2021 XGuard RC. All rights reserved



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.

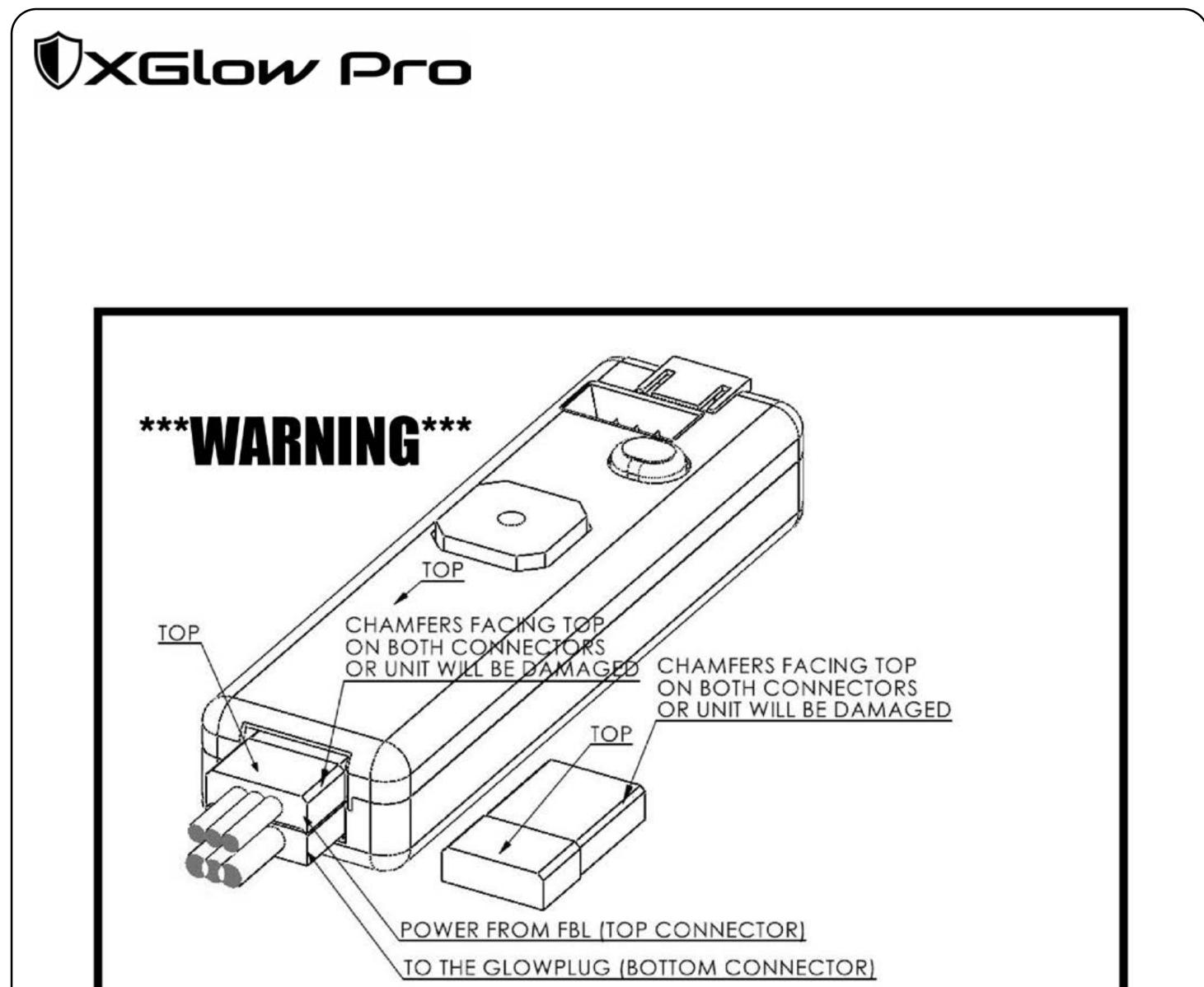
www.XGuardRC.com

Page: 2 Copyright 2020 XGuard RC. All rights reserved

| Contents | |
|--------------------------------|----|
| PORTS DIAGRAM | 5 |
| INSTALLATION MODES | 6 |
| A) SIMPLEST INSTALLATION | 6 |
| B) SWITCHED ON BY RADIO SWITCH | 7 |
| C) WITH ANTI-HOT-START | 8 |
| d) with anti-chicken-dance | 9 |
| MEANING OF THE LIGHTS | |
| PROGRAMMING THE UNIT | |
| Entering Programming mode | |
| PROGRAMMING | |
| RADIO'S SWITCH POSITIONS | 14 |

| RADIO'S SWITCH POSITIONS | | 5 |
|--------------------------|---|---|
| MUSICAL TONES MEANING | 1 | 6 |

Page: 3 Copyright 2020 XGuard RC. All rights reserved

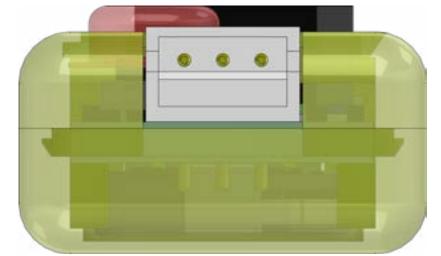


FAILURE TO CONNECT THEM CORRECTLY WILL DAMAGE THE UNIT IN A WAY THAT WON'T BE COVERED BY THE WARRANTY

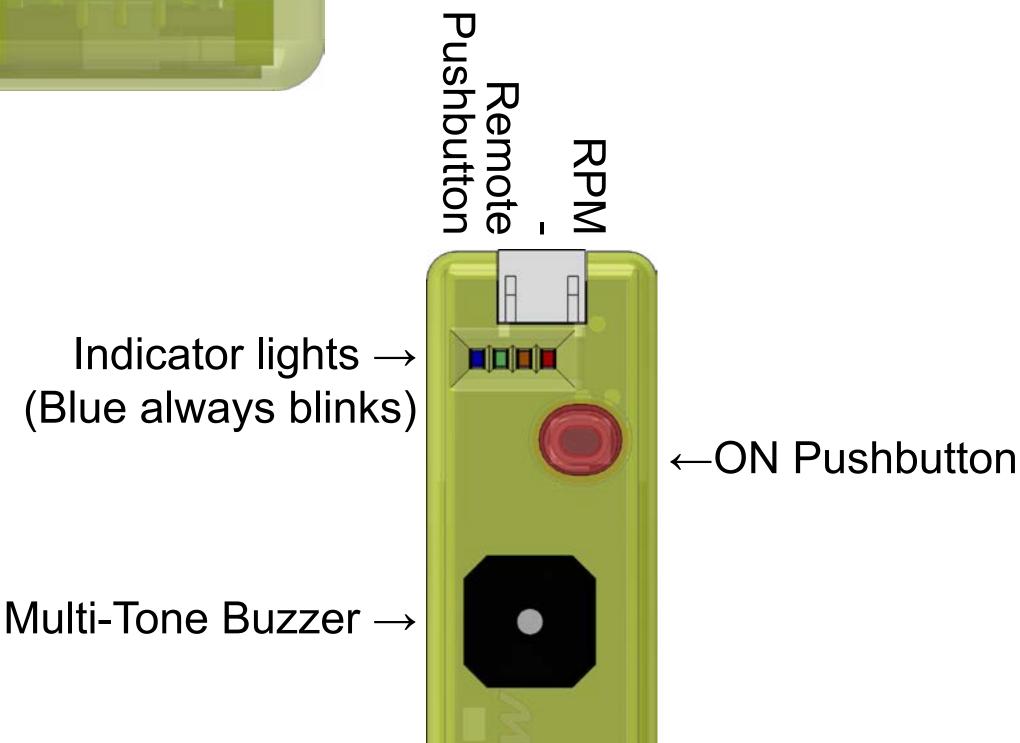
> Page: 4 Copyright 2020 XGuard RC. All rights reserved

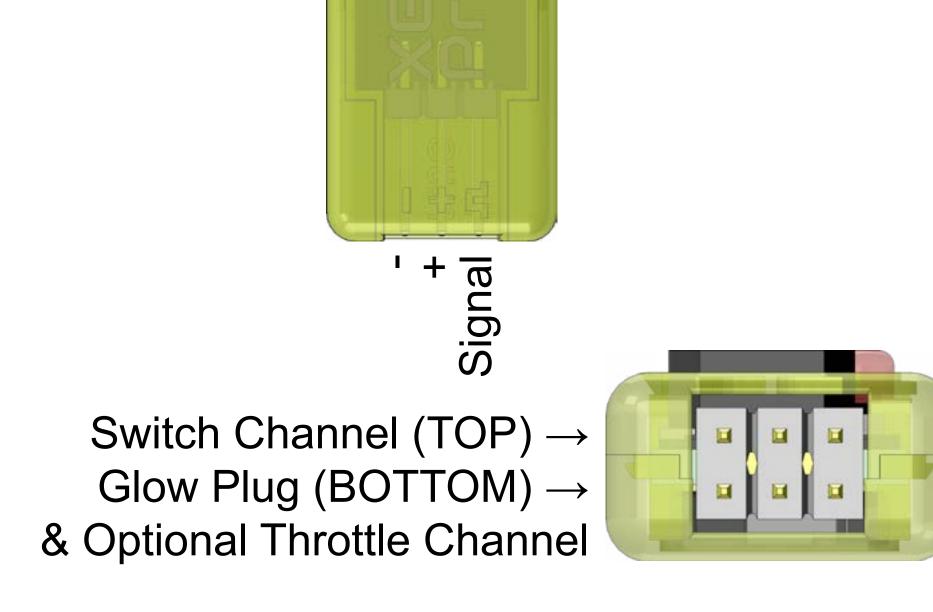


PORTS DIAGRAM



← RPM Sensor and Remote Pushbutton cable connector



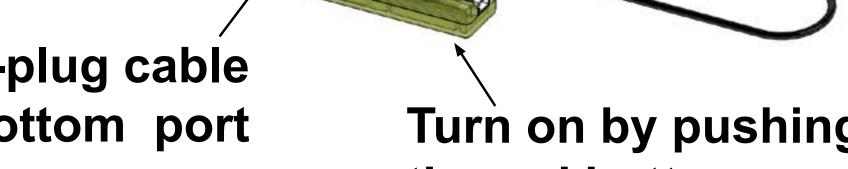




INSTALLATION MODES

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

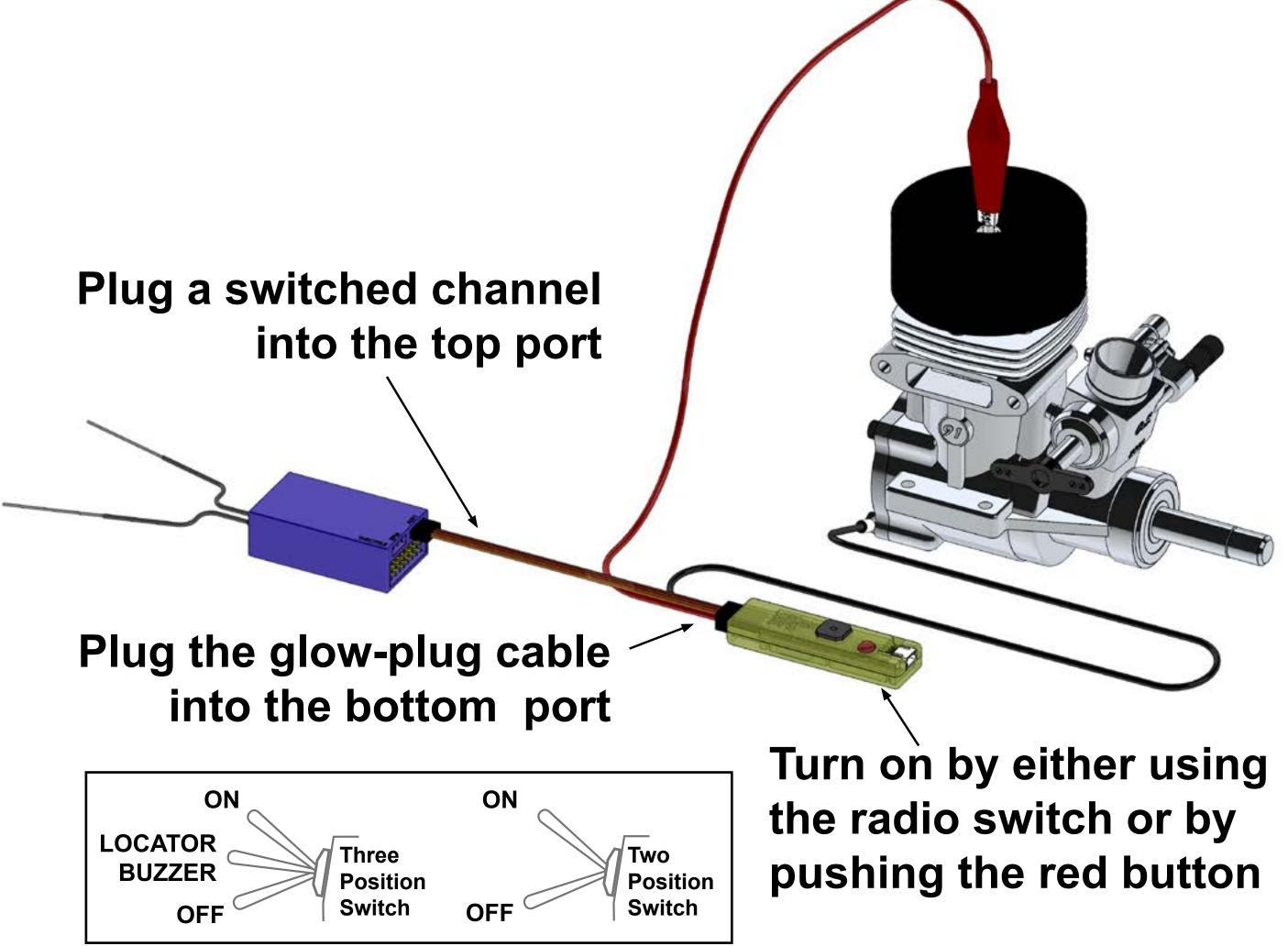
Using this configuration out-of-the-box the unit will use the default Factory settings.

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

> Copyright 2020 XGuard RC. All rights reserved Page: 6



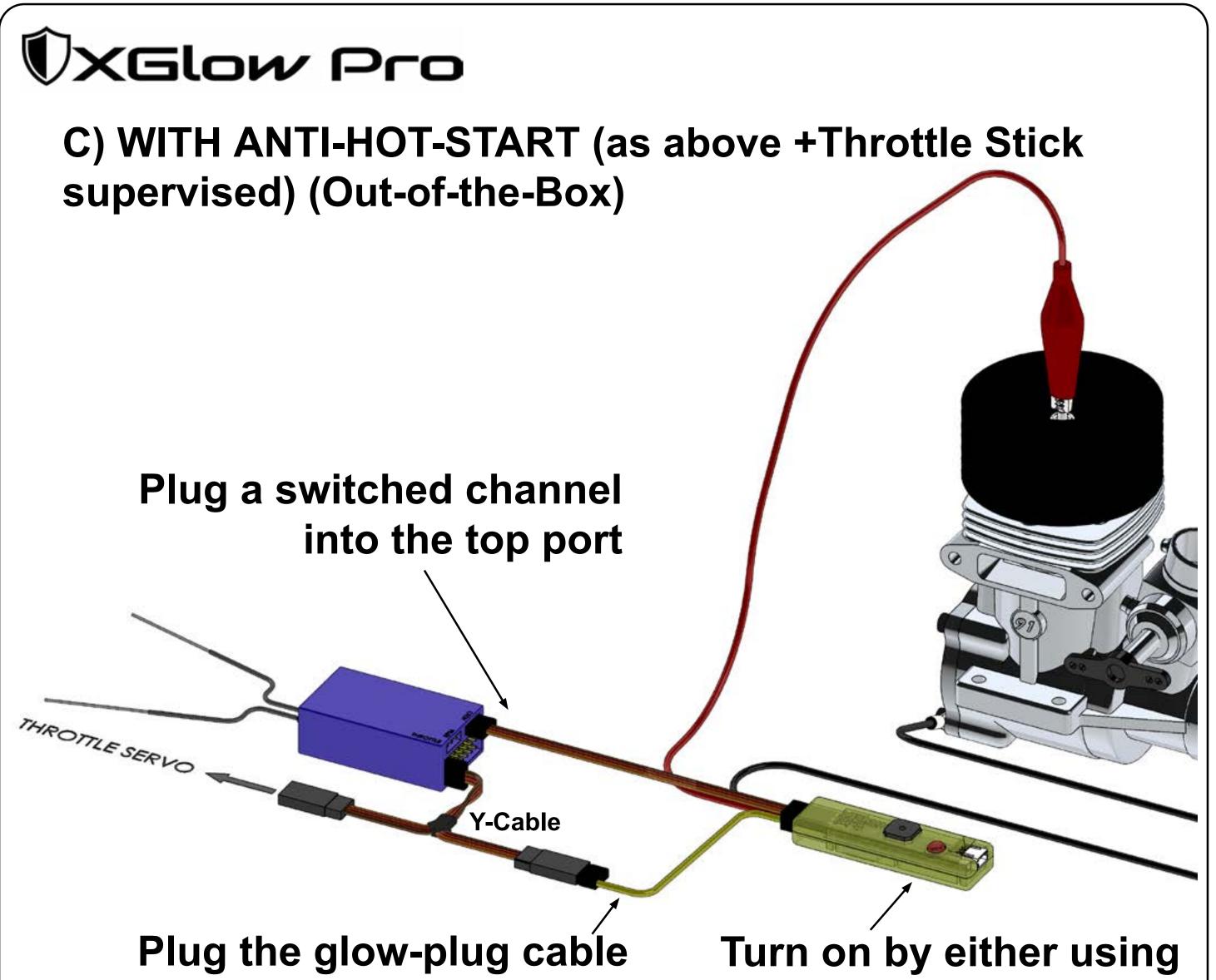
B) SWITCHED ON BY RADIO SWITCH (as above+Switch) (Out-of-the-Box)



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.

> Copyright 2020 XGuard RC. All rights reserved Page: 7



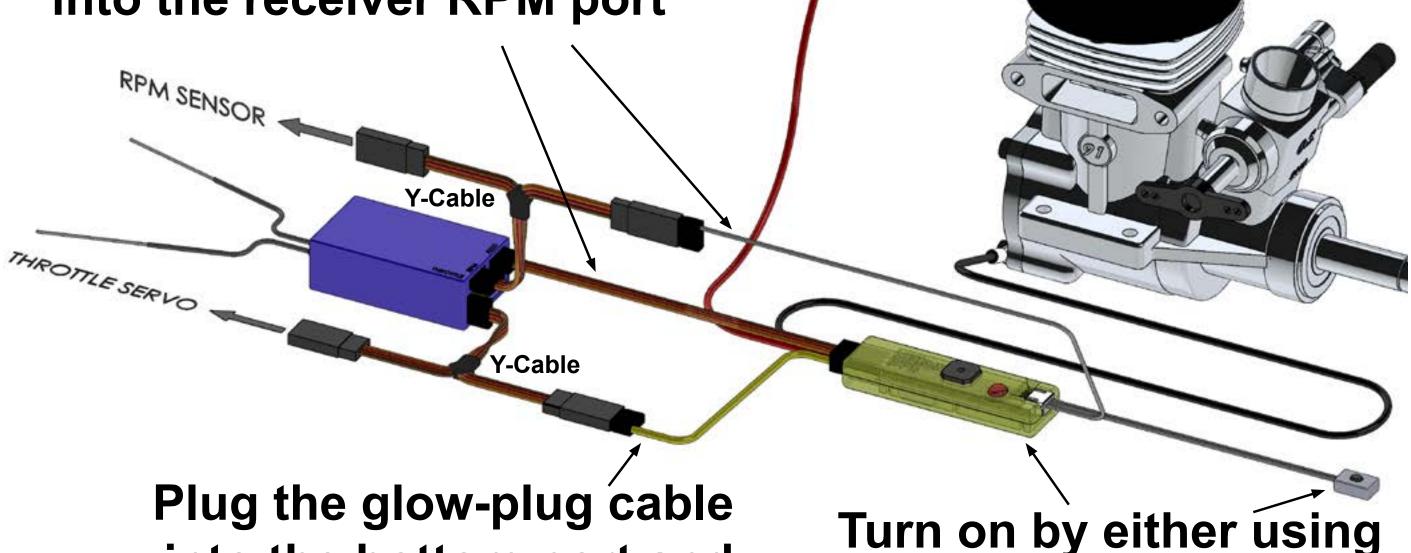
into the bottom port and add the throttle pickup wire (SKU: AAVXG0204) the radio switch or by pushing the red button

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.

Page: 8 Copyright 2020 XGuard RC. All rights reserved

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



into the bottom port and add the throttle pickup wire (SKU: AAVXG0204) 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

Page: 9 Copyright 2020 XGuard RC. All rights reserved



MEANING OF THE LIGHTS

Meaning of lights when driving the plug

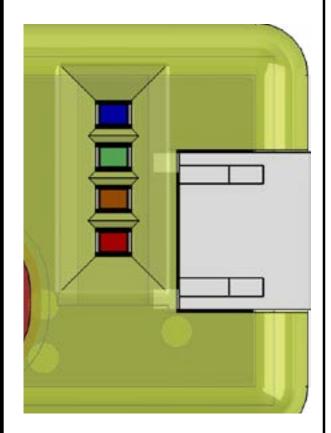
BLUE: Blinks indicating it's powered ON

GREEN: No meaning in this mode

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

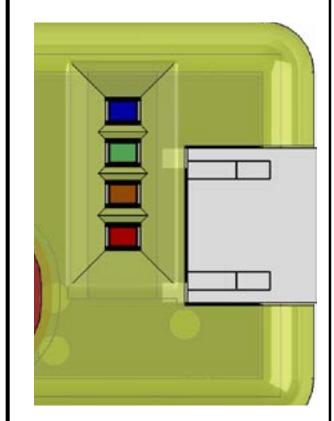


BLUE: Blinks indicating it's powered ON

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

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

RED: THROTTLE signal from the receiver is present.



Page: 10 Copyright 2020 XGuard RC. All rights reserved



PROGRAMMING THE UNIT

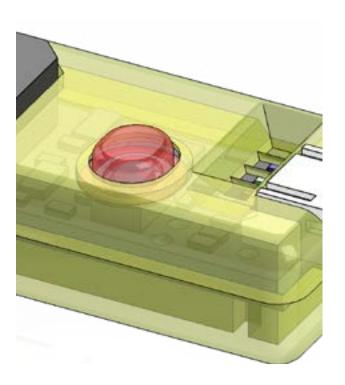
(Engine needs to be off do not attempt when engine running)

The unit has the following programmable settings:

- 1) THROTTLE IDLE POSITION (MOVE STICK TO BOTTOM)
- 2) GLOWING TIME (10, 20 secs or until switched OFF)
- 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)
- 6) CURRENT FOR BAD PLUG DETECTTION (LOW, MID, HIGH)

Entering Programming mode

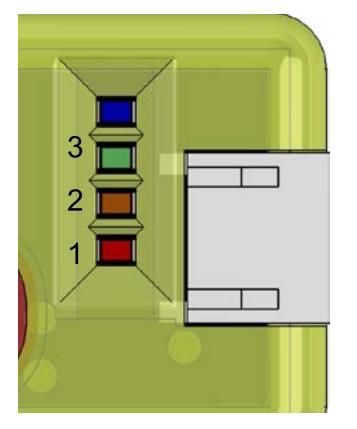
*** IMPORTANT *** Before you enter programming mode make sure your throttle is in normal mode so that the throttle servo moves from idle to full as you move the throttle stick. To enter programming mode PUSH AND HOLD the red button WHILE POWERING UP. As soon as you hear the first beep release the red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



Page: 11 Copyright 2020 XGuard RC. All rights reserved

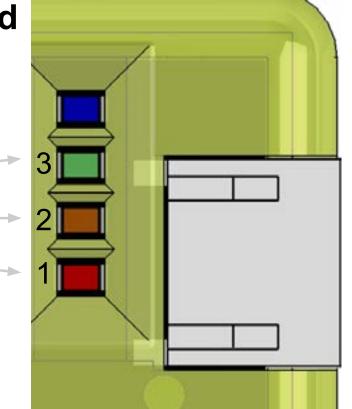
1 THROTTLE IDLE POSITION

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. Note: If your throttle stick is at the idle position and you srtill no get a cear RED or GREEN LED light on it means you need adjust you throttle linkages so that the the throttle pulse width gets into the red LED or GREEN LED are so it can be stored, otherwise the ORANGE LED will be ignored and not programmed. 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:

GREENfor unlimited until switched back OFF.YELLOWfor 20 seconds glowing time.REDfor 10 seconds glowing time (DEFAULT)



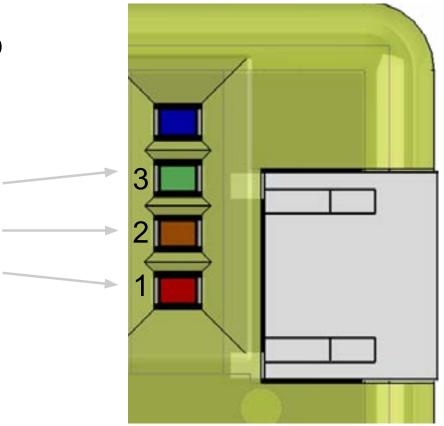
Push the red button [•] to memorize and go to next step



| 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

Page: 12 Copyright 2020 XGuard RC. All rights reserved



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:

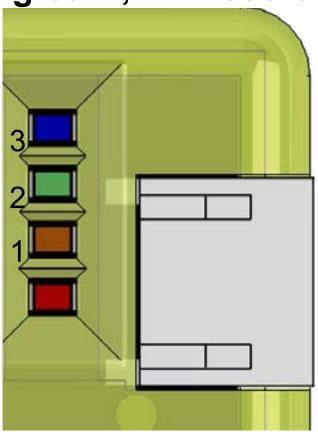
2) The throttle signal goes to idle such as when the pilot tries to stop or idle the engine while at the same time the RPM sensor indicates that the engine is still under high RPM indicating the servo might be disconnected.

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



Page: 13 Copyright 2020 XGuard RC. All rights reserved



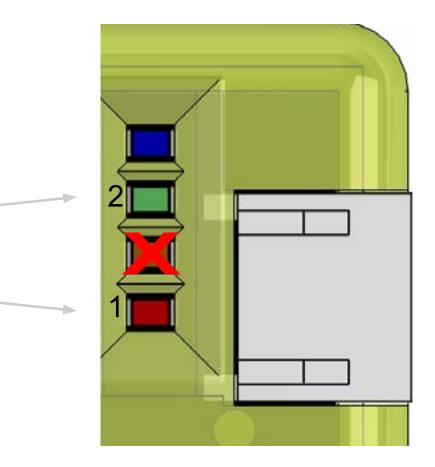
5 NUMBER OF ACTIVE RPM SENSOR MAGNETS

Set the throttle or three-position switch to:

GREEN for 2 active magnets

RED for 1 active magnets (DEFAULT)

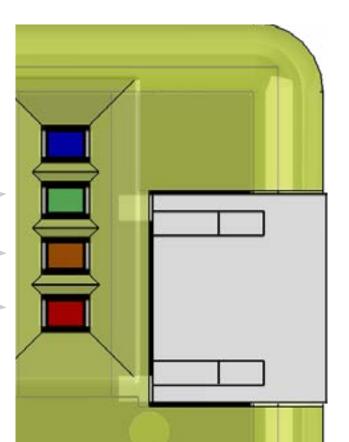
Push the red button [•] to memorize and finish.



6 CURRENT FOR BAD PLUG DETECTION

Set the throttle or three-position switch to:

Push the red button [•] to memorize and go to next step

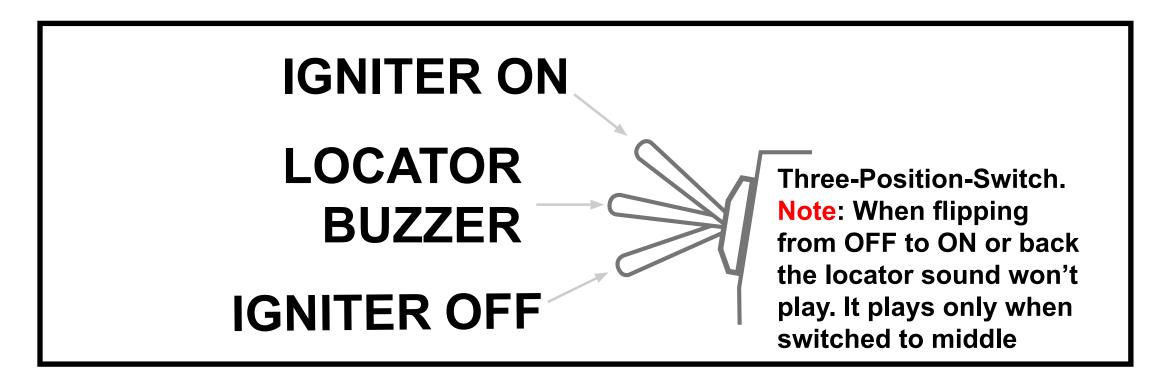


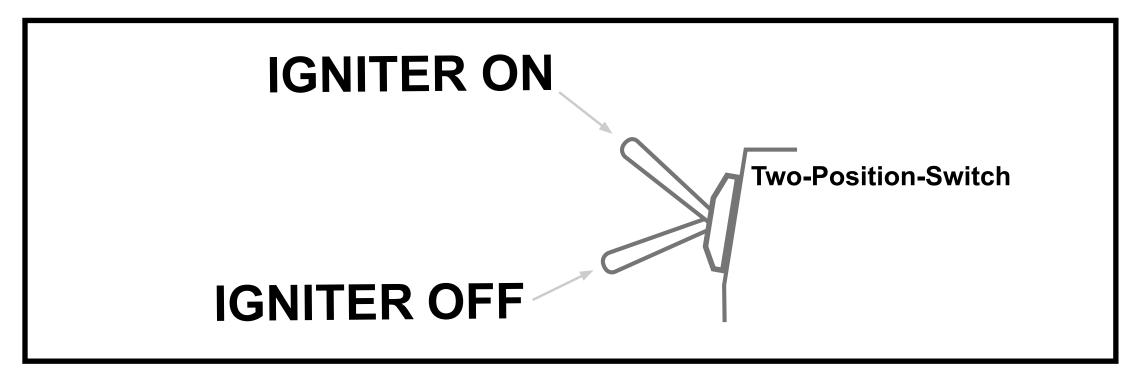
RADIO'S SWITCH POSITIONS

Page: 14 Copyright 2020 XGuard RC. All rights reserved



RADIO'S SWITCH POSITIONS





Note: If the positions are reversed go to the radio's

setting screen and reverse the switch channel.

Page: 15 Copyright 2020 XGuard RC. All rights reserved



MUSICAL TONES MEANING

NORMAL OPERATION:

- 1) Power UP tone
- 2) Plug being drive by the XGlow Pro
- 3) Locator Alarm tone



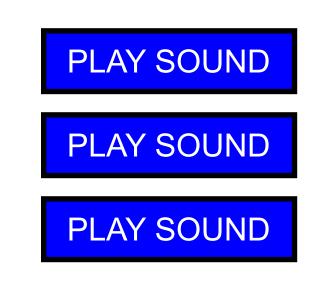
PLAY SOUND

PLAY SOUND

PLAY SOUND

ERROR TONES:

- 1) Throttle not in idle tone
- 2) Bad Plug or Plug Disconnected
- 3) Deffective Plug or Alligator clip shorting with engine



DURING PROGRAMMING:

- 1) Enter Programming Section
- PLAY SOUND
- 2) Programing steps:

