

SFX Remote Control

This transmitter / receiver is designed to remote control Look Product's Tiny S and Tiny Fogger machines. It gives on/off control remotely. These foggers do not support variable output levels.

OPERATION

Use the either the 2.5mm x 3.5mm or straight 3.5mm 3 conductor male extension cable to connect the remote to the fogger.

Press the buttons on the remote as needed to operate.

- 1) The top button turns on the fogger and it stays on.
- 2) The bottom button turns it off.
- 3) The middle button turns on the fogger only as long as it is pushed.

If the battery voltage drops too low for proper operation, the receiver turns the fogger off. This low voltage lockout lasts for 20 seconds and the LED blinks fast during this time.

PAIRING

Each receiver has to be paired to a remote transmitter to work. The receiver learns the code of the remote transmitter unit. As such, each receiver can learn only one transmitter. Learning a new transmitter erases the previous one. This allows one transmitter to control many receivers.

Learning a new transmitter takes place only when first powered on. To do this:

- 1) Power the receiver from the fogger.
- 2) The LED starts blinking at ½ second intervals.
- 3) Press and hold any button on the transmitter key fob.
- 4) In about 3 seconds the LED should come on solid for 3 seconds and then go out.
- 5) Release the button on the transmitter, the new code has been learned.
- 6) You have 15 seconds to complete this.

Once a transmitter has been learned, the receiver retains this until reprogramed to learn a different transmitter.

LOW VOLTAGE LOCKOUT

The remote receiver monitors the supply voltage from the device it is controlling. When the battery drops too low to work properly, the receiver turns off the fogger and locks out for 20 seconds. The LED blinks fast during this time. It is time to replace or recharge the battery. This prevents running the battery down to a level that will damage it. The receiver allows for the fact that the different foggers run on 2 different battery voltages.

LIMITS

This is a radio controlled device. As such it is subject to interference and limitations.

The range should be about 40 feet, but could be as short as 20 feet and up to 75 feet depending on conditions. Range is affected by how many things interfere with the signal. If the receiver or person using the transmitter is behind walls, around corners, inside metal enclosures, blocks of concrete, or such the range will be limited. Open areas with nothing between the operator and the receiver will have maximum range. Using a longer connection

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cable to raise the receiver higher or to move the receiver out from behind obstructions will help increase range.

Other transmitters will also interfere. This unit works on 418 or 433 MHZ. Anything else transmitting on this frequency will jam reception. Some other remote controls and car key fobs work on this frequency. Only ONE remote control can be used at the same time. Pushing buttons on 2 different remotes at the same time will cause nothing to happen.

On set there may be many other devices transmitting on other frequencies as well. Even though these devices are on other frequencies they may cause range reduction as well. This problem is comparable to trying to carry on a conversation in a noisy room. Even though you can hear the other person, the background noise can be loud enough to make it hard to understand the person.

NOTES

A) There is a recessed button in a small hole on the back of the transmitter key fog, with the word 'create' next to it. **DO NOT** push the button in this hole, it will create a new address code. **DO NOT** do it! Every transmitter already has a unique code and does not need to be changed.

B) **DO NOT** use 4 conductor cables (they have 4 connections on the plugs) as they will short out part of the circuit.

C) If you open the receiver box, you will see a button on the circuit board. This is for test purposes and there is no reason the push it.

LED

The LED blinks in 5 different ways depending on the state of the receiver.

- 1) Blinking at ½ second intervals when in startup learn mode.
- 2) A quick blink once every 2 seconds when the fog output is off.
- 3) A quick blink every ¾ of a second when the fog output is on.
- 4) Turns on solid for 3 seconds when a new remote is learned.
- 5) A fast blink when the fogger battery is too low for proper operation.

POWER

The receiver works on 2.5 - 12VDC. This power comes from the controlled device through the 3.5mm jack. In the 3.5mm plugs the sleeve is common (ground), the tip is positive power, and the middle ring is the signal back to the controlled device. Power draw is low, about 12ma.

The transmitter key fob uses a lithium coin battery # 2032.

FCC INFO

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There are 2 different frequencies that are allowed for this type of device, 418 MHZ and 433 MHZ, normally a 418MHZ unit is shipped. This is a good choice for use in the USA. This frequency is not allowed in Europe. The 433MHZ unit is available for that market, or if a person wants to have 2 units on different frequencies. The 418 units have a blue sticker on the case and the key fob should be labeled on the back. The 433 ones have a red sticker. If the stickers are gone, the case can be opened and there is a paint color on the antenna coil inside.

315 MHZ is also allowed, but is not used much anymore. These remotes are not available at that frequency.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARRANTY

The remote transmitter / receiver is warrantied for 1 year from date of purchase. This covers manufacturing defects. It does not cover:

- A. Physical damage to the box or circuit board.
- B. Connection jacks that are damaged from the cord being pulled out at an angle.
- C. Corrosion damage from being contaminated with fog fluid or water. Keep it dry!
- D. Failure to operate due to radio interference or low battery voltage.
- E. Replacement battery for transmitter.

Replacement key fob, cables, and enclosure box are available.