

# Wireless Gasoline Engine Control System

# SWENSON

The wireless gasoline engine controller is intended to control the start/stop, throttle increase/decrease, and electric clutch on/off functions. The control system consists of a transmitter and a receiver. The receiver is mounted on the spreader near the gasoline engine. The transmitter is intended to remain in the vehicle cab or with the operator.

## OPERATION

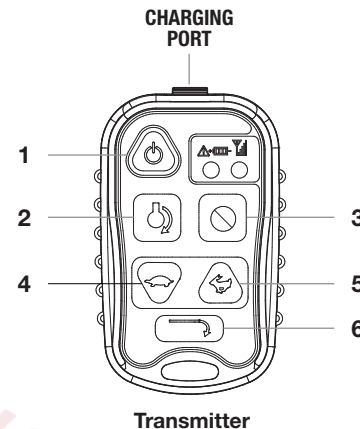
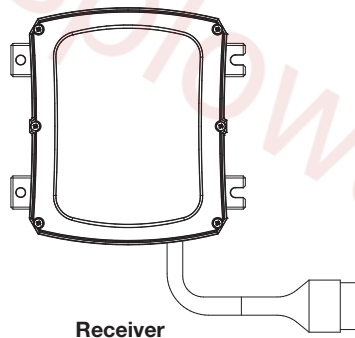
1. Press and hold the POWER button for at least two seconds to turn on the transmitter. The green LED will begin to blink.
2. Set engine throttle to choke by pressing and holding the throttle INCREASE button for at least three seconds.
3. Press and hold the engine START button until the engine starts. Note: continuing to hold the engine start button after the engine starts will result in damage to the engine.
4. Once engine starts, press the throttle DECREASE button to remove throttle from the choke position.
5. Press the throttle INCREASE or throttle DECREASE button until the desired engine RPM is achieved.
6. Engage the electric clutch by pressing the CONVEYOR button once. Pressing the CONVEYOR button a second time will disengage the clutch. Note: the green LED will turn solid whenever the clutch is engaged.
7. Engine can be stopped by pressing the engine STOP or POWER buttons. Note: pressing the engine STOP or POWER buttons will automatically disengage the electric clutch.

## SPECIFICATIONS

- 12 Volt
- Frequency 902-928 MHz FHSS 10mW
- Transmitter battery: Requires standard micro USB wall or car charger

## BUTTON FUNCTIONS

1. Power ON/OFF
2. Engine Start
3. Engine Stop
4. Throttle Decrease
5. Throttle Increase
6. Conveyor ON/OFF



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## Synchronizing Transmitter and Receiver

Each transmitter and receiver pair are synchronized at the factory. If a new transmitter is needed use the following procedure to synchronize the transmitter and receiver:

1. Make sure both the transmitter and receiver are powered off.
2. Press and hold the POWER button on the transmitter for at least 10 seconds. Both the red and green LED lights will begin to blink.
3. Apply power to the receiver. Wait for a few seconds until only the green LED begins to blink. The transmitter and receiver are now synchronized.

## Sleep Time Adjustment

The sleep mode will automatically shut off the transmitter, disengage the electric clutch, and stop the gasoline engine. The transmitter is factory set to go into sleep mode after 15 minutes of inactivity. Use the following procedure to change the sleep time or disable the sleep mode:

1. With the transmitter powered off, press and hold the POWER, throttle DECREASE, throttle INCREASE, and CONVEYOR buttons.

2. Release the buttons. At this point both the red and green LED lights will blink once per second.
3. On the transmitter press one of the following buttons for the desired sleep time:
  - a. ENGINE STOP = 15 minutes (default setting)
  - b. ENGINE START = 30 minutes
  - c. THROTTLE INCREASE = 1 hour
  - d. THROTTLE DECREASE = 2 hours
  - e. CONVEYOR = Disable sleep mode
4. Sleep time programming is now complete.



Transmitter

## Transmitter LED Light Codes

Red LED blinks once per second = Low Battery

Green LED blinks once per second = Transmitter on but no communication with the receiver

Green LED blinks twice per second = Transmitter is on and communicating with the receiver

Green LED solid = Clutch is engaged

**Note:** the green LED located inside the receiver under the cover will blink rapidly when receiving a signal from the transmitter, otherwise it will be off.