



**Automated Covering Systems**

## Radio Frequency Control Switch for Grain Trailer Tarp Systems

### ***Quick Start Guides:***

- 1. Safety Features***
- 2. How to Operate System***
- 3. Transmitter Pairing***
- 4. Creating Multiple Transmitters***
- 5. Maintenance and  
Troubleshooting***

Part Number 105687



# ***This Document Contains Five Quick Start Sections***

## **Product Warning (Page 3)**

### **Section One: System Safety (Page 4)**

5. Identification of Components
6. Understanding the 3 Modes of RF Operation
7. When to Use Each of the Operating Modes
8. Locking Out Tarp System During Driving
9. Transmitter "Auto Power Off" Function

**First Time Users  
Should Know all  
Safety Features**

### **Section Two: Operating the System (Page 10)**

11. The Transmitter LED Light
12. Using the Transmitter for the First Time
13. Operating the Tarp System from the Transmitter
14. Operating the Tarp System from the Receiver

**This is How to  
Operate the  
System in All  
Modes**

### **Section Three: Transmitter Pairing (Page 15)**

16. Transmitter Pairing Introduction
17. Configuration of receivers and transmitter for Grain Trailer Systems
18. Pair the Tarp Motor Receiver
21. Pairing the Front Hopper Motor Receiver
24. Pairing the Rear Hopper Motor Receiver

**These  
sections are  
used for  
System  
Service and  
System  
Maintenance**

### **Section Four: Creating Multiple Transmitters (Page 27)**

28. Master and Copy Transmitter Configurations
29. Determining if the Transmitter is a MASTER or Copy
30. Changing a MASTER Transmitter to a Copy Transmitter
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### **Section Five: Maintenance and Troubleshooting (Page 32)**

33. Changing the Transmitter Battery
34. Troubleshooting the Receiver
35. Troubleshooting the Transmitter

# **WARNING**

***Failure to Read and Follow all instructions in the Product User Guide may result in serious injury or damage to property.***



***The information icon shown above will be observed during the review of this Quick Start Guide. This information icon indicates that additional important information is in the Product User Guide (Roll Rite Instruction Part Number 105563).***

# Section One

## SYSTEM SAFETY

*AUTO-POWER-OFF FEATURE  
SYSTEM LOCK-OUT FEATURE*



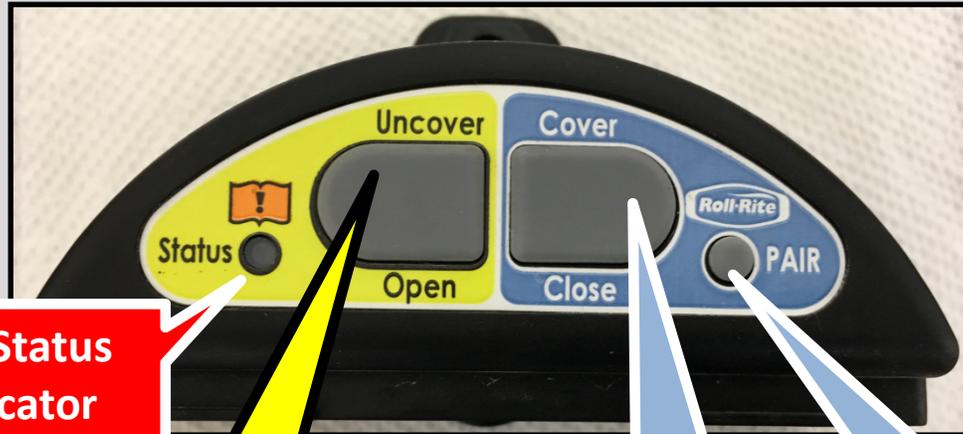
*To prevent serious damage, do not operate the tarp system while the vehicle is on the road. The features described here have been included to prevent operation of the tarp system while the vehicle is in motion.*

*DO NOT use the remote control while while the vehicle is in motion*

*DO NOT operate the tarp from the receiver while the vehicle is in motion*

# GTX Trailer RF Switch System

## RECEIVER



LED Status Indicator

Uncover Open

Cover Close

Pair Button

## TRANSMITTER



Radio OK LED

Transmitter ON

Tarp Cover

Front Hopper Close

Rear Hopper Close

Transmitter OFF

Tarp Uncover

Front Hopper Open

Rear Hopper Open

# Understanding the 3 Modes of RF Operation



1

Operate Tarp from  
Either Receiver or  
Transmitter

From  
Transmitter:  
Press On  
and Uncover  
for > 3  
Seconds

From  
Transmitter:  
Press OFF  
-OR-  
Wait 5  
Minutes

Unplug Trailer  
Power  
-OR-  
On  
Receiver:  
Press Cover +  
Uncover for >  
3 Seconds

Plug Trailer  
Power In  
-OR-  
On Receiver:  
Press Cover +  
Uncover for >  
3 Seconds

Lock Out  
Transmitter  
-----  
Operation from  
Receiver Only

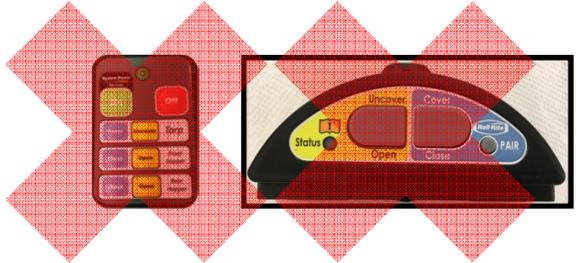
2

Lock Out Receiver  
-----  
No Operation Will  
Occur

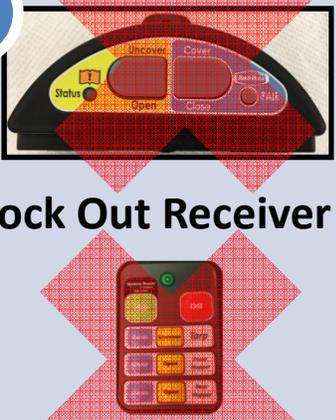
3



6



## When to Use Each of the Operating Modes

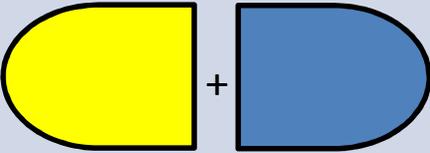
Mode 1, 2, or 3	Tarp Control	When to Use
<p><b>1</b></p>  <p><b>Normal Operation</b></p>	<p>Receiver Control is <b>Enabled</b></p> <p>Transmitter Control is <b>Enabled</b></p>	<p><i><b>Use this mode when:</b></i> Operator wants to use Receiver (outside) or Transmitter (inside truck cab)</p>
<p><b>2</b></p>  <p><b>Lock Out Transmitter</b></p>	<p>Receiver Control is <b>Enabled</b></p> <p>Transmitter Control is <b>DISABLED</b></p>	<p><i><b>Use this mode when:</b></i></p> <p>RF transmission is not allowed at a facility or within a fleet</p> <p style="text-align: center;">-or-</p> <p>The vehicle is in motion on private or public roads</p>
<p><b>3</b></p>  <p><b>Lock Out Receiver</b></p>	<p>Receiver Control is <b>DISABLED</b></p> <p>Transmitter Control is <b>DISABLED</b></p>	<p><i><b>Use this mode when:</b></i></p> <p>The vehicle is in storage or in a service bay and it is not possible to disconnect power to the tarp system</p>

## Locking Out the Tarp System During Driving

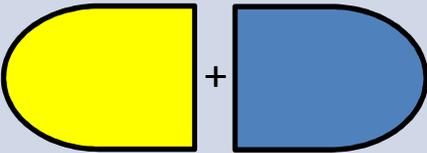
*There are two methods to prevent the tarp system from operating while the vehicle is on the road*

Action	System Response	Mode
Unplug Power on Trailer to disconnect power to system	None	<b>“Lock Out”</b> System will not respond to receiver or transmitter commands until the system is powered

*- Or -*

Action	System Response	Mode
<p>On the Receiver</p>  <p>&gt; 3seconds</p>	<p><b>Receiver LED</b> Flashes 3 Times While Buttons are Pressed</p>	<p><b>“Lock Out”</b> System will not operate from Receiver or Transmitter until the system is unlocked</p>

## Unlocking the Tarp System After Driving

Action	System Response	Mode
<p>On the Receiver</p>  <p>&gt; 3seconds</p>	<p>After 3 Seconds Has Passed the <b>Receiver LED</b> Flashes 1 Time</p>	<p><b>“Operating”</b> System will not operate from Receiver or Transmitter until the system is unlocked</p>

# Transmitter "Auto Power Off" Mode

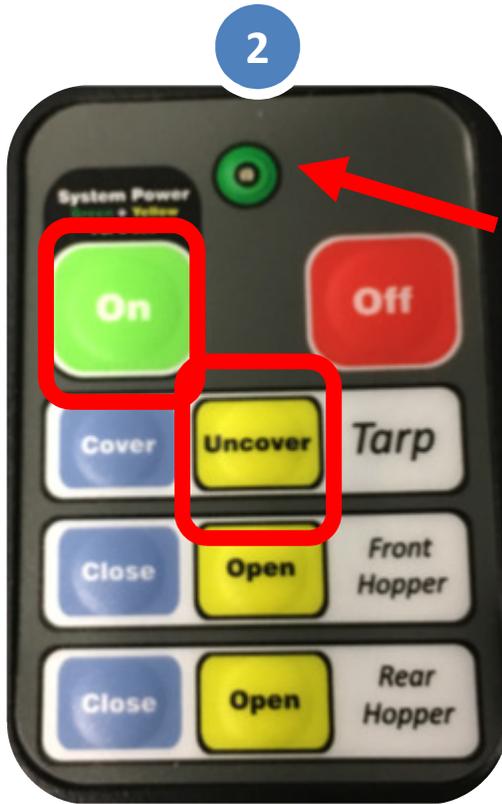
To prevent tarp system from running while on road, the Transmitter will lock out automatically after 5 minutes.

To start transmitter do the following 3 steps:



1. Make Sure the Receiver is **NOT in LOCK OUT mode** see "Locking Out Tarp System Receiver"

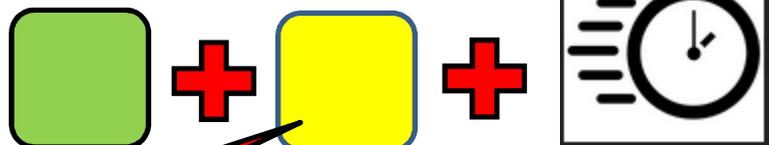
3. 5X Flash Indicates Receiver and Transmitter are Both Ready to Operate System



2. Press On + Uncover for greater than 3 seconds, then release.

The Transmitter **RED LED** will flash once buttons are pressed, then again after 3 seconds have elapsed.

3. The Receiver will flash 5 times, indicating the system is ready for Operation from Transmitter



Note: The procedure is same for Hopper Receivers: Use On + Open

# **Section Two**

## **OPERATING THE SYSTEM**

## *The Transmitter LED Light*



When the transmitter is operating, the **RED LED** flashes rapidly when a button is pressed. *This Indicates that communication is working between the transmitter and receiver.*

If the **RED LED** does not flash when a button is pressed, *the transmitter is not communicating.* Place Receiver in Operating Mode first, then place Transmitter in Operating Mode to continue.

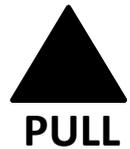
# Using the Remote Control for the First Time

**1 DO NOT PAIR THE TRANSMITTER TO THE RECEIVER.** When transmitter and receiver are shipped together, they have been paired by Roll Rite prior to shipping.

**2** Connect the Receiver to the Motor Controller per the instruction document 105563. When power is connected to the receiver, the **RED LED will FLASH ONCE.** The Receiver is **ON.**



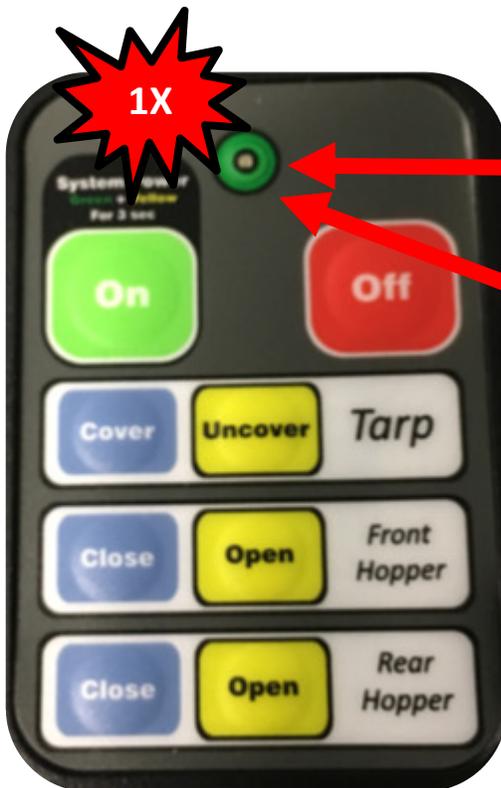
**3** Pull the battery tab out  
On the Transmitter, press and hold the GREEN and YELLOW button for 3 seconds.



The Transmitter **RED LED** will Flash **ONCE** as soon as you press the buttons.

After 3 seconds have passed, the Transmitter **RED LED** will Flash **AGAIN** indicating 3 seconds have passed.

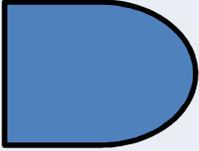
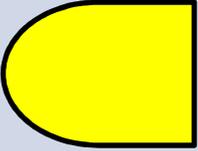
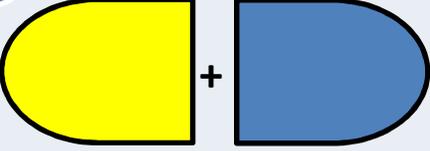
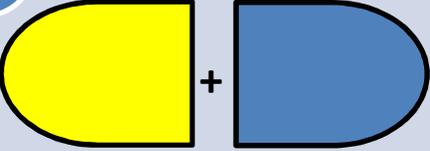
The Receiver **RED LED** will flash 5 times. The system is ready to run from the transmitter.



## Operating Tarp System from the TRANSMITTER

ACTION	Receiver LED & Transmitter LED	TARP SYSTEM MODE
<p><b>1</b></p> <p>Plug in Nose Plug on Trailer to connect power to system</p>	<p><b>Receiver LED</b> Flashes 1 Time</p>	<p><b>“Operating”</b> System is now ready for command</p>
<p><b>2</b></p> <p><b>PRESS AND HOLD</b></p> <div style="display: flex; align-items: center; justify-content: center;">  <span style="margin: 0 10px;">+</span>  </div> <p><b>&gt; 3 Seconds</b></p>	<p><b>Transmitter LED</b> <i>flashes once</i> when pressed then flashes again after 3 seconds</p> <p><b>Receiver LED</b> flashes 5 times</p>	<p><b>“Operating”</b> System is ready to take commands from Transmitter</p>
<p><b>3</b></p> <p><b>Press Cover</b></p> 	<p><b>Transmitter LED</b> will flash rapidly</p> <p><b>Receiver LED</b> will flash 5 times</p>	<p><b>“Cover/Close”</b></p>
<p>or</p> <p><b>3</b></p> <p><b>Press Uncover</b></p> 	<p><b>Transmitter LED</b> will flash rapidly</p> <p><b>Receiver LED</b> will flash 5 times</p>	<p><b>“Uncover/Open”</b></p>
<p><b>4</b></p> <p><b>Press Transmitter Off &gt; 1 sec</b></p> 	<p>No LED Lights</p>	<p><b>“Transmitter OFF”</b> Tarp System will Not Operate Using Transmitter</p>

## Operating the Tarp System from RECEIVER

ACTION	RECEIVER LED INDICATOR	TARP SYSTEM MODE
<b>1</b> Plug in Nose Plug on Trailer to connect power to system	<b>Receiver LED</b> Flashes once indicating power is <b>ON</b>	<b>“Operating”</b> System is now ready for command
<b>2</b> Press the Cover  Button	<b>Receiver LED</b> Illuminated SOLID while system is operating	<b>“Covering”</b> System Follows One-Touch Operation if connected to One-Touch Motor Relay
or		
<b>2</b> Press the Uncover  Button	<b>Receiver LED</b> Illuminated SOLID while system is operating	<b>“Uncovering”</b> When Used System Follows One-Touch Operation if connected to One-Touch Motor Relay
<b>3</b> PRESS and HOLD  For 3seconds	<b>Receiver LED</b> Flashes 3 Times while the buttons are pressed	<b>“Lock Out”</b> System will not operate from Receiver or Transmitter
<b>4</b> PRESS and HOLD  > 3seconds	After 3 seconds, the <b>Receiver LED</b> Flashes 1 Time	<b>“Operating”</b> System will respond to Receiver or Transmitter commands

# Section Three

## PAIRING A REPLACEMENT TRANSMITTER



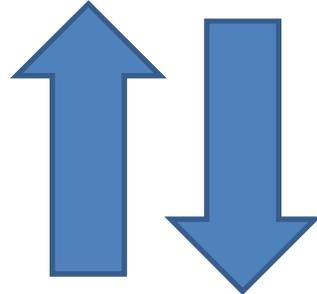
*Use this section only when replacing an old RF  
Transmitter with a new RF Transmitter*

*When Receiver and Transmitter are purchased as a set,  
they are paired prior to shipping*



# Pairing the Tarp Motor and Hopper Motor Receivers to the Transmitter

**IMPORTANT NOTE: When Transmitter and Receiver shipped together they have been paired prior to shipping.**

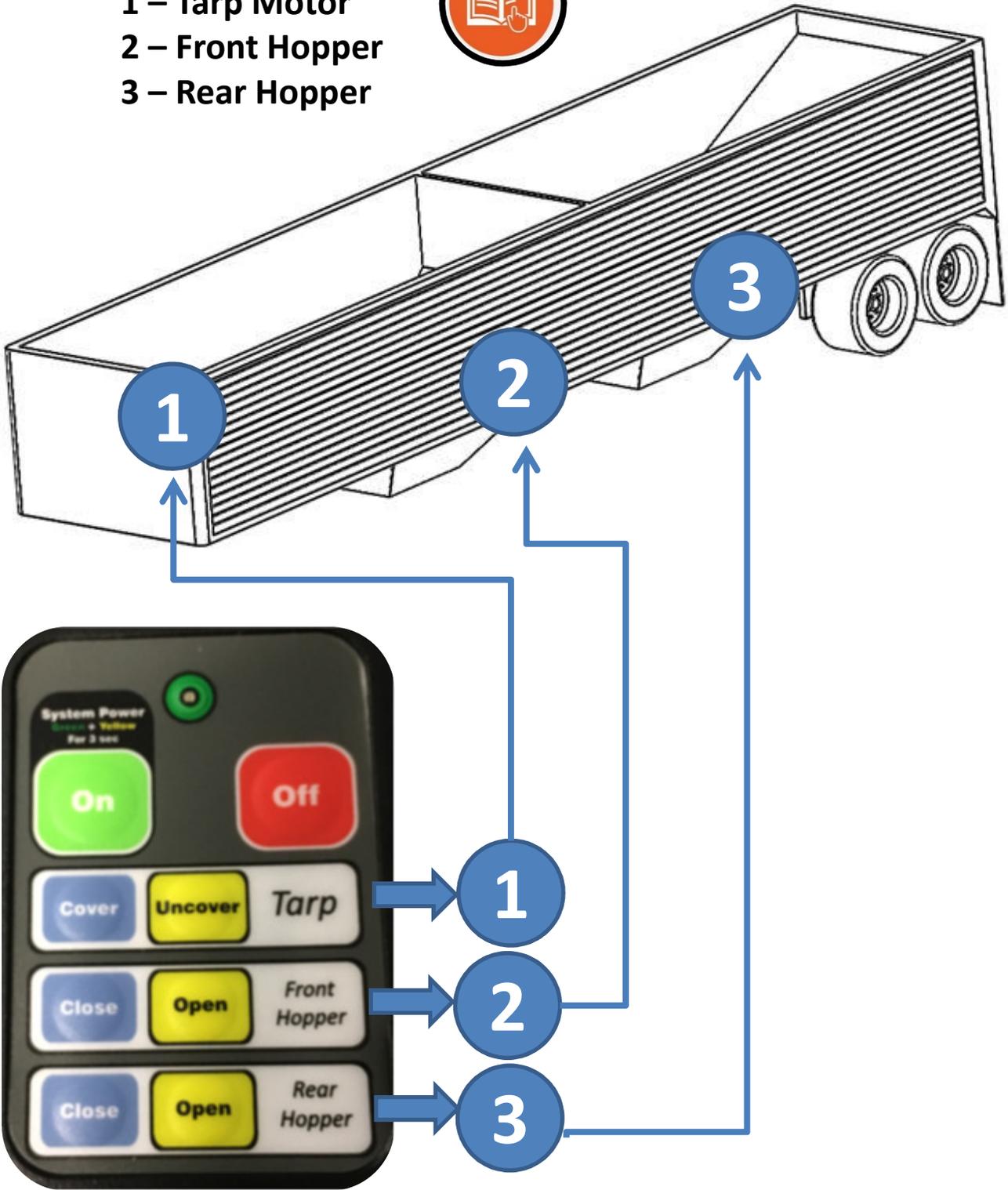


MASTER

**Prior to Pairing a new FIRST REPLACEMENT transmitter to the Receiver, make sure the Transmitter is configured as a MASTER TRANSMITTER, see next section**

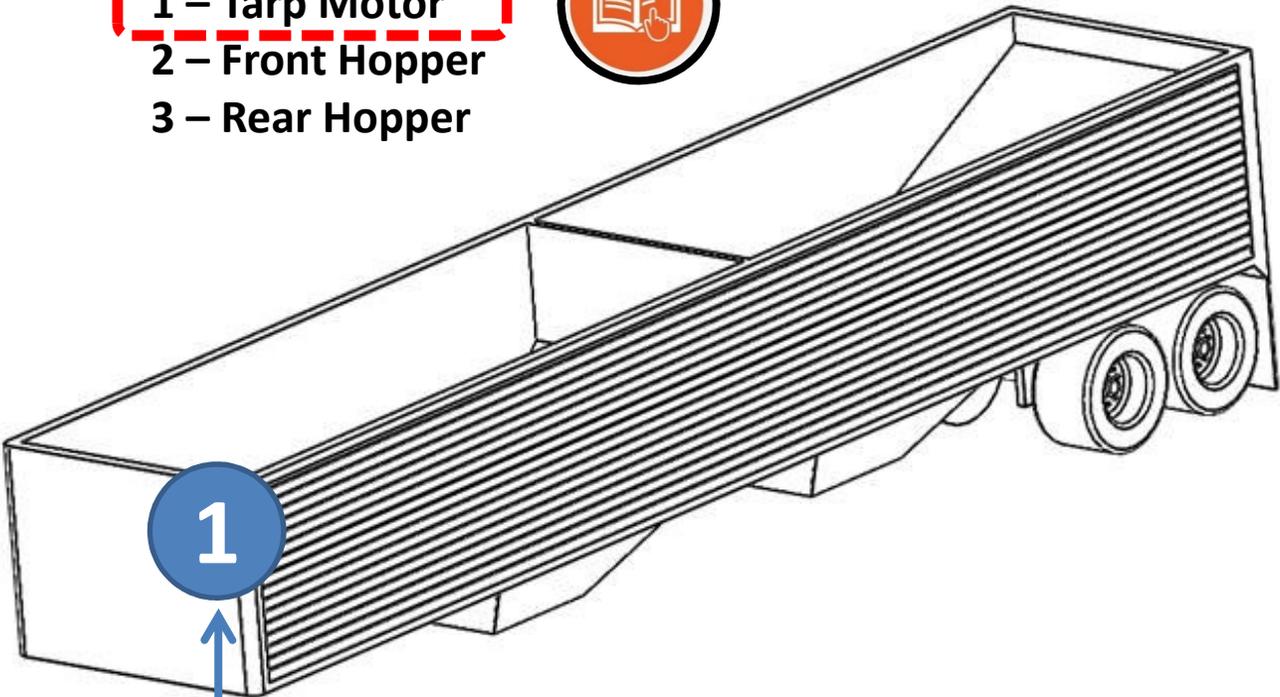
# Configuration of Receivers for Grain Trailer Application

- 1 – Tarp Motor
- 2 – Front Hopper
- 3 – Rear Hopper



# Pairing the Tarp Motor Receiver

- 1 – Tarp Motor
- 2 – Front Hopper
- 3 – Rear Hopper



# 1. Pairing the Transmitter with Tarp Motor



**1** Connect Receiver to Tarp System

Connect terminals to their corresponding color.  
*Cover = Blue*  
*Uncover = Yellow*  
*BAT+ = Red*  
*GND = Black*



**2** Place TARP MOTOR Receiver in Pairing Mode

Hold the pair button and uncover button on the receiver until the Red LED flashes SIX times (about seven seconds). *The LED will continue to flash after buttons are released, indicating pairing mode has started.*



**3** Place GTX Transmitter in Pairing Mode

Use a paper clip to tap the pairing button on the transmitter for less than one second. *A blue LED will begin flashing rapidly, indicating pairing mode has started.*

# 1. Pairing the Transmitter with Tarp Motor

**4** Pair *Tarp* Control Buttons to Receiver



The image shows a transmitter keypad with several buttons. The 'Cover' button is highlighted with a red box. To the right, a tarp motor is shown with a red starburst containing '1x' next to the 'Uncover' button.

**4** Pair *Tarp* Control Buttons to Receiver

Once Red LED and Blue LED stop flashing (about 30 seconds), press the TARP COVER button on the transmitter to associate the Receiver with the Tarp function. *The Receiver LED will blink ONCE for Tarp Motor.*

**5** Check Tarp Receiver Power On Function

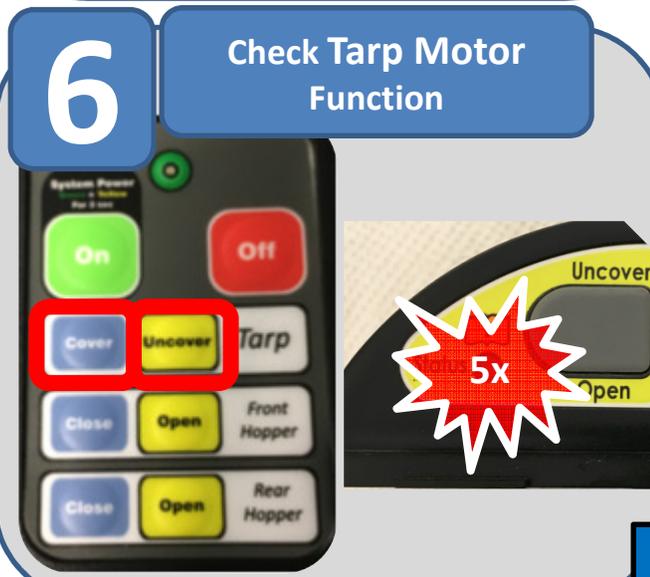


The image shows the transmitter keypad with the 'On' and 'Uncover' buttons highlighted in red. The tarp motor to the right has a red starburst with '5x' next to the 'Uncover' button.

**5** Check Tarp Receiver Power On Function

Hold the ON and UNCOVER buttons for more than three seconds. The Transmitter LED will blink once when pressed, then once after 3 seconds. The Receiver LED will blink 5 times.

**6** Check Tarp Motor Function



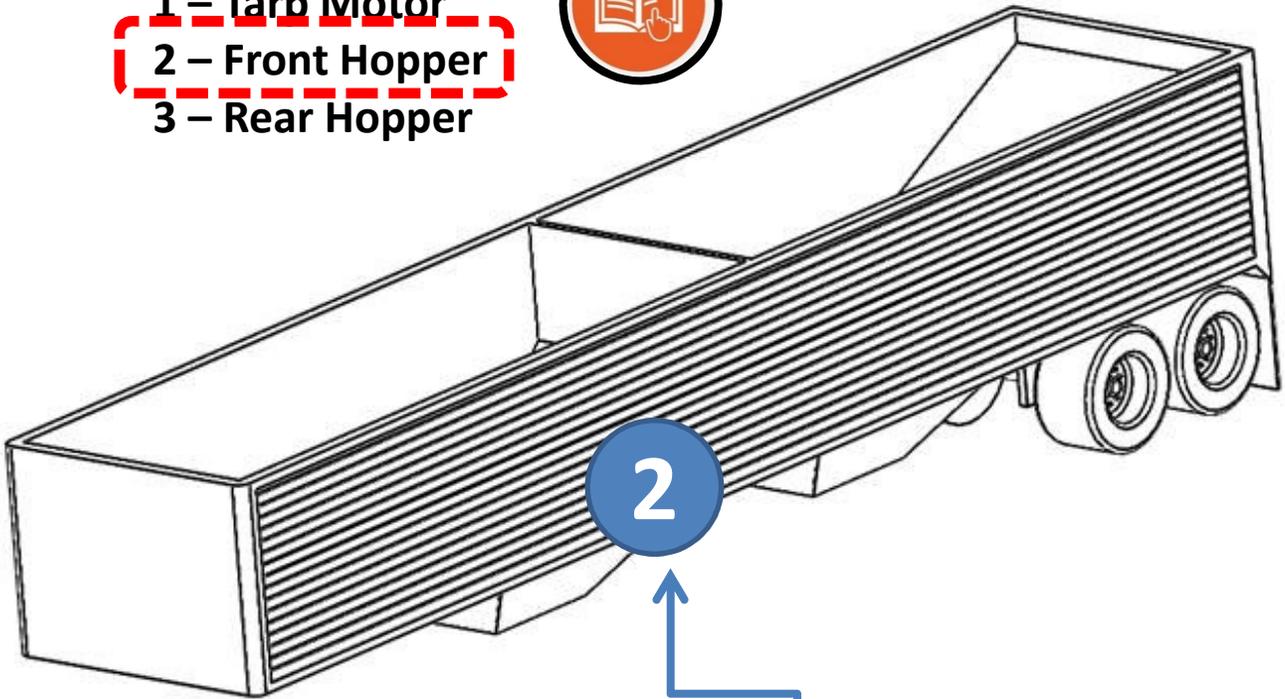
The image shows the transmitter keypad with the 'Cover' and 'Uncover' buttons highlighted in red. The tarp motor to the right has a red starburst with '5x' next to the 'Uncover' button.

**6** Check Tarp Motor Function

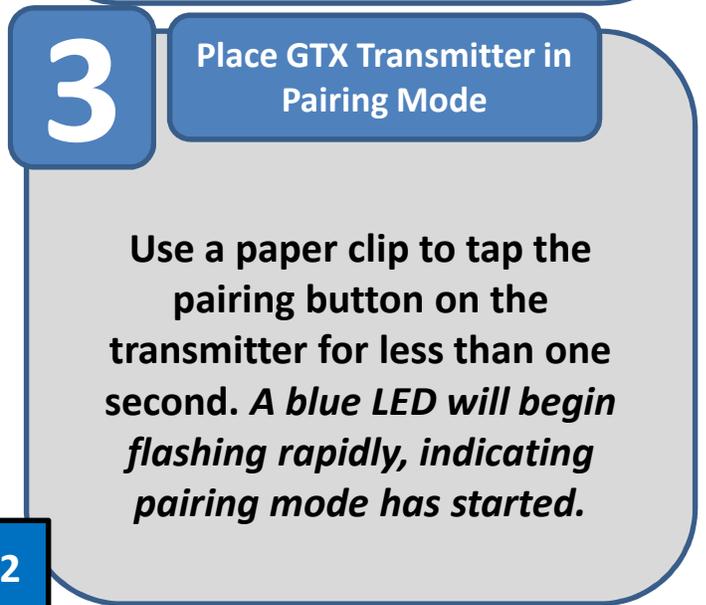
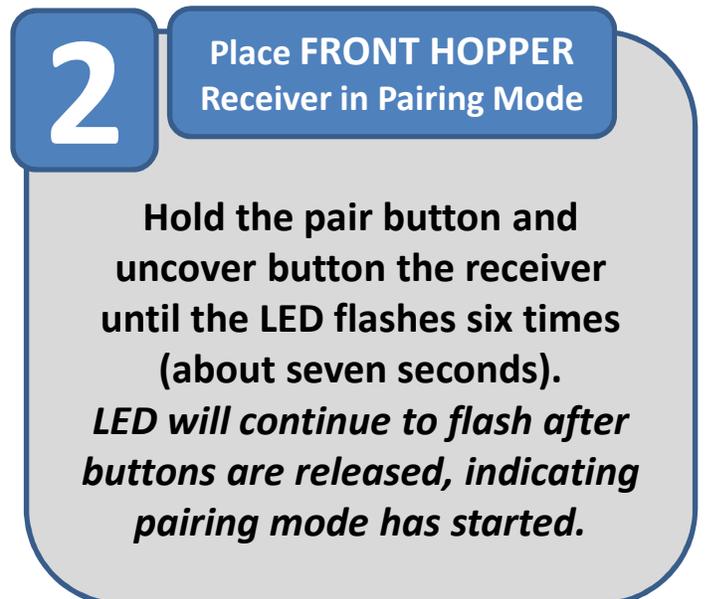
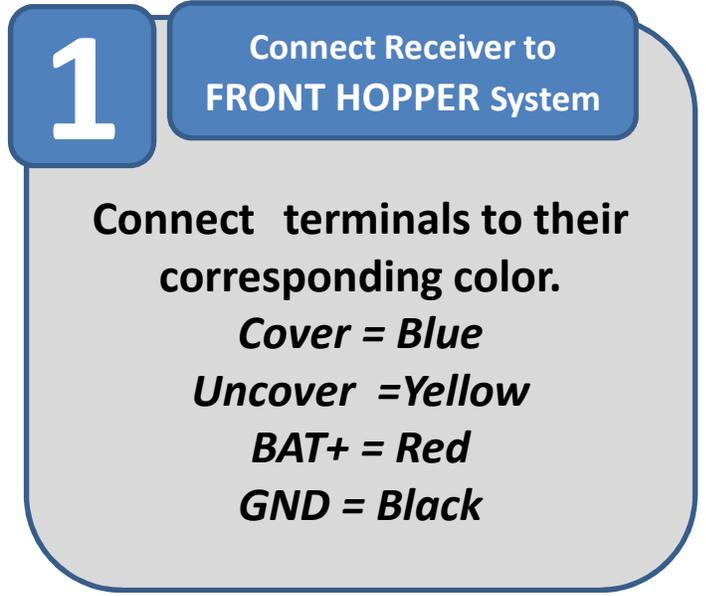
While *Covering* or *Uncovering* the Tarp System the Receiver LED will be solid and the Transmitter LED will flash GREEN. After the action is complete, the receiver will blink 5 times.

# Pairing the Front Hopper Receiver

- 1 – Tarp Motor
- 2 – Front Hopper
- 3 – Rear Hopper



## 2. Pairing the Transmitter with Front Hopper Receiver



## 2. Pairing the Transmitter with Front Hopper Receiver

4

Pair FRONT HOPPER Control Buttons to Receiver



4

Pair FRONT HOPPER Control Buttons to Receiver

Once Red LED and Blue LED stop flashing (about 30 seconds), press the *FRONT HOPPER CLOSE* button on the transmitter to associate the receiver with the transmitter Tarp function. *The receiver LED will blink TWICE, indicating Front Hopper.*

5

Check FRONT HOPPER Receiver Power On Function



5

Check FRONT HOPPER Receiver Power On Function

Hold the ON and OPEN buttons for more than three seconds. The Transmitter LED will blink once when pressed, then once after 3 seconds. The Receiver LED will blink 5 times.

6

Check FRONT HOPPER Motor Operation



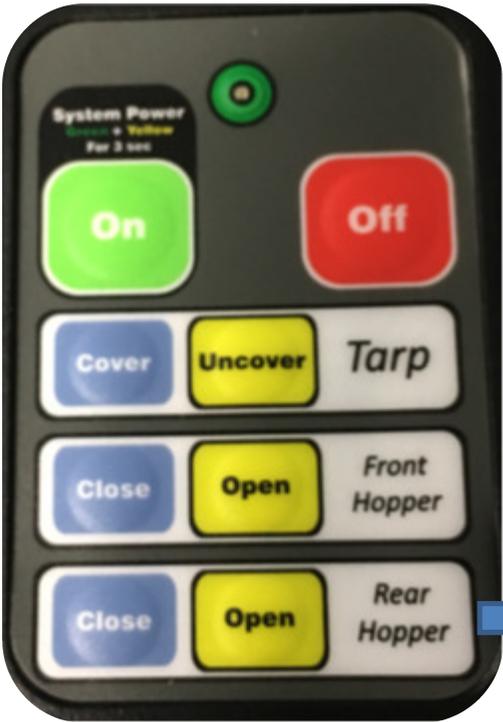
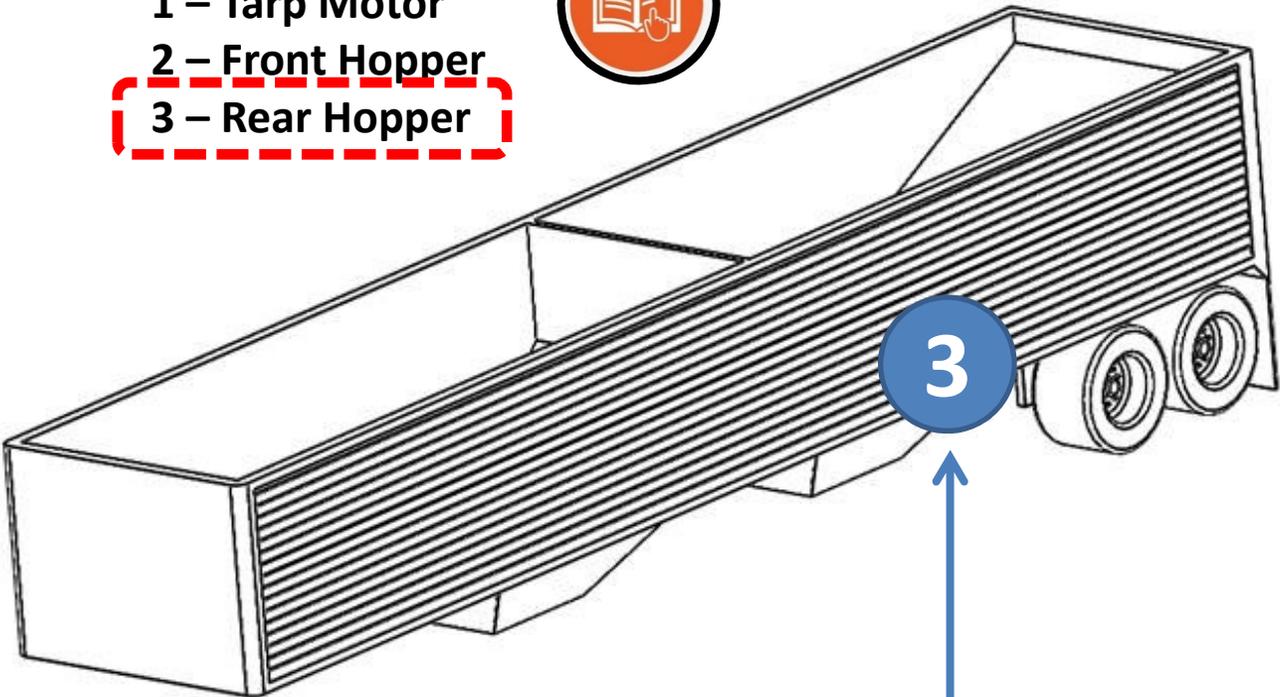
6

Check FRONT HOPPER Motor Operation

While *OPENING* or *CLOSING* the Hopper, the Receiver LED will be solid and the Transmitter LED will flash GREEN. After the action is complete, the receiver will blink 5 times

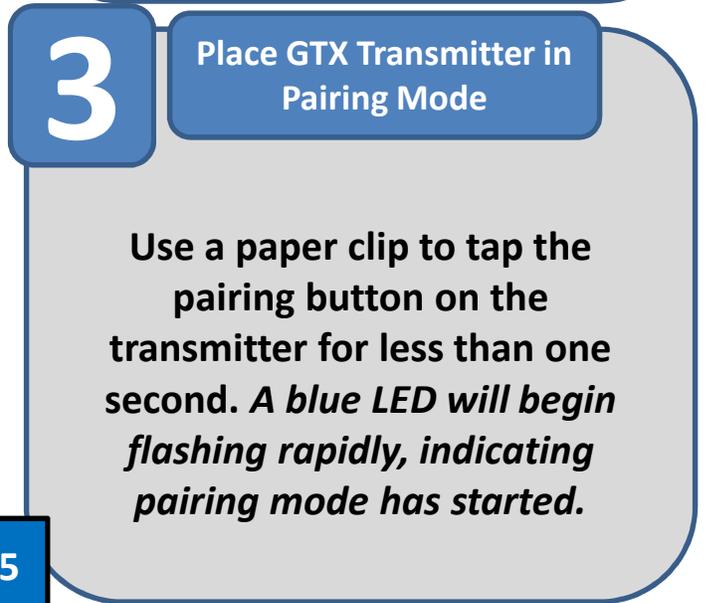
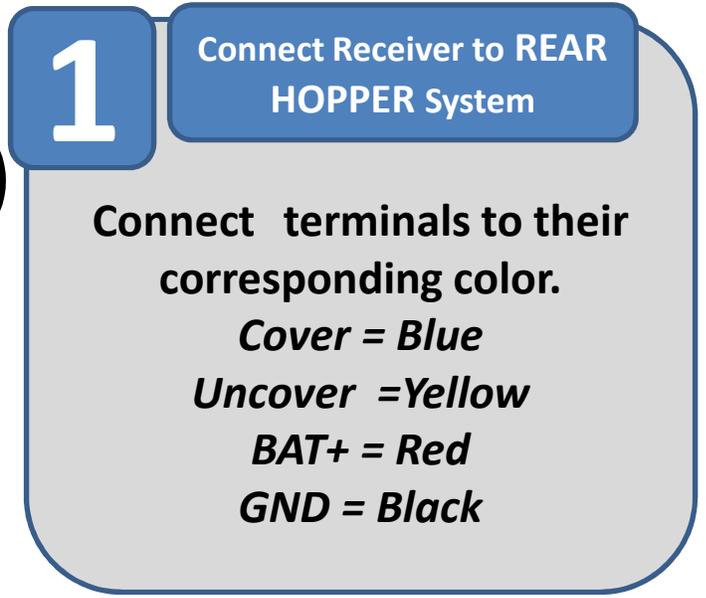
# Pairing the Rear Hopper Receiver

- 1 – Tarp Motor
- 2 – Front Hopper
- 3 – Rear Hopper**



3

### 3. Pairing the Transmitter with Rear Hopper Receiver



## 2. Pairing the Transmitter with REAR Hopper Receiver

4

Pair REAR HOPPER Control Buttons to Receiver



4

Pair REAR HOPPER Control Buttons to Receiver

Once Red LED and Blue LED stop flashing (about 30 seconds), press the *REAR HOPPER CLOSE* button on the transmitter to associate the receiver with the transmitter Tarp function. *The receiver LED will blink three times, indicating REAR Hopper.*

5

Check REAR HOPPER Receiver Power On Function



5

Check REAR HOPPER Receiver Power On Function

Hold the ON and OPEN buttons for more than three seconds. The Transmitter LED will blink once when pressed, then once after 3 seconds. The Receiver LED will blink 5 times.

6

Check REAR HOPPER Motor Operation



6

Check REAR HOPPER Motor Operation

While *Opening or Closing* the REAR Hopper Door, the Receiver LED will be solid and the Transmitter LED will flash rapidly. After the task is complete, the receiver will blink 5 times.

# Section Four

## CREATING MULTIPLE TRANSMITTERS



*Use this section only when creating two or more transmitters for one receiver*

*NOTE: When Receiver and Transmitter are purchased as a set, they are paired prior to shipping*



# Master and Copy Transmitter Configurations

Standard Systems Include One Paired Transmitter and One Receiver



**MASTER**



*In this configuration, the transmitter will always be set up as a MASTER transmitter*

*It is possible to have multiple transmitters with one receiver*



**MASTER**

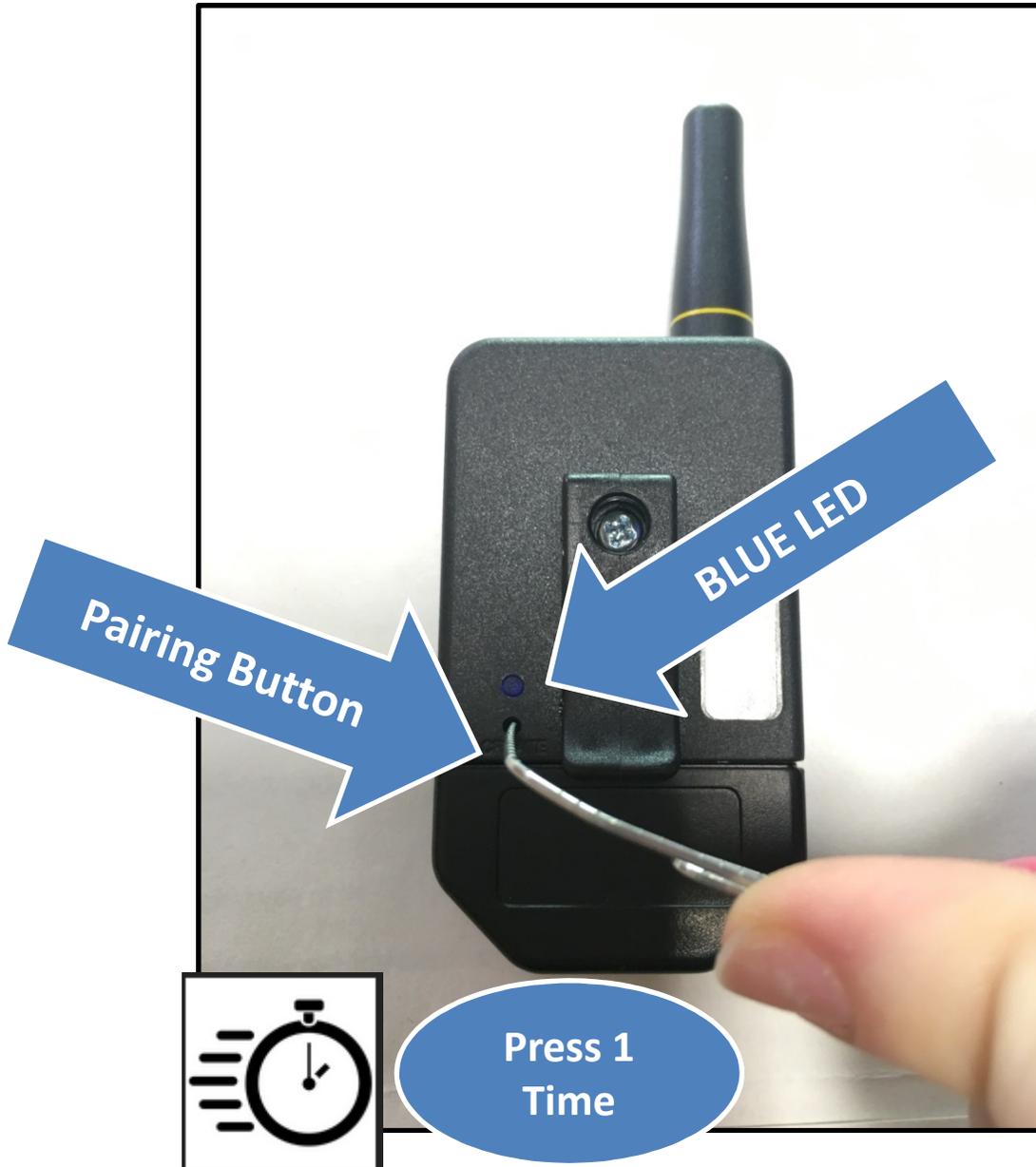


**Copy**



*In this configuration, there is one MASTER transmitter. All other transmitters will be configured as Copy configured from the MASTER transmitter*

## ***Determining if the Transmitter is a MASTER OR Copy***

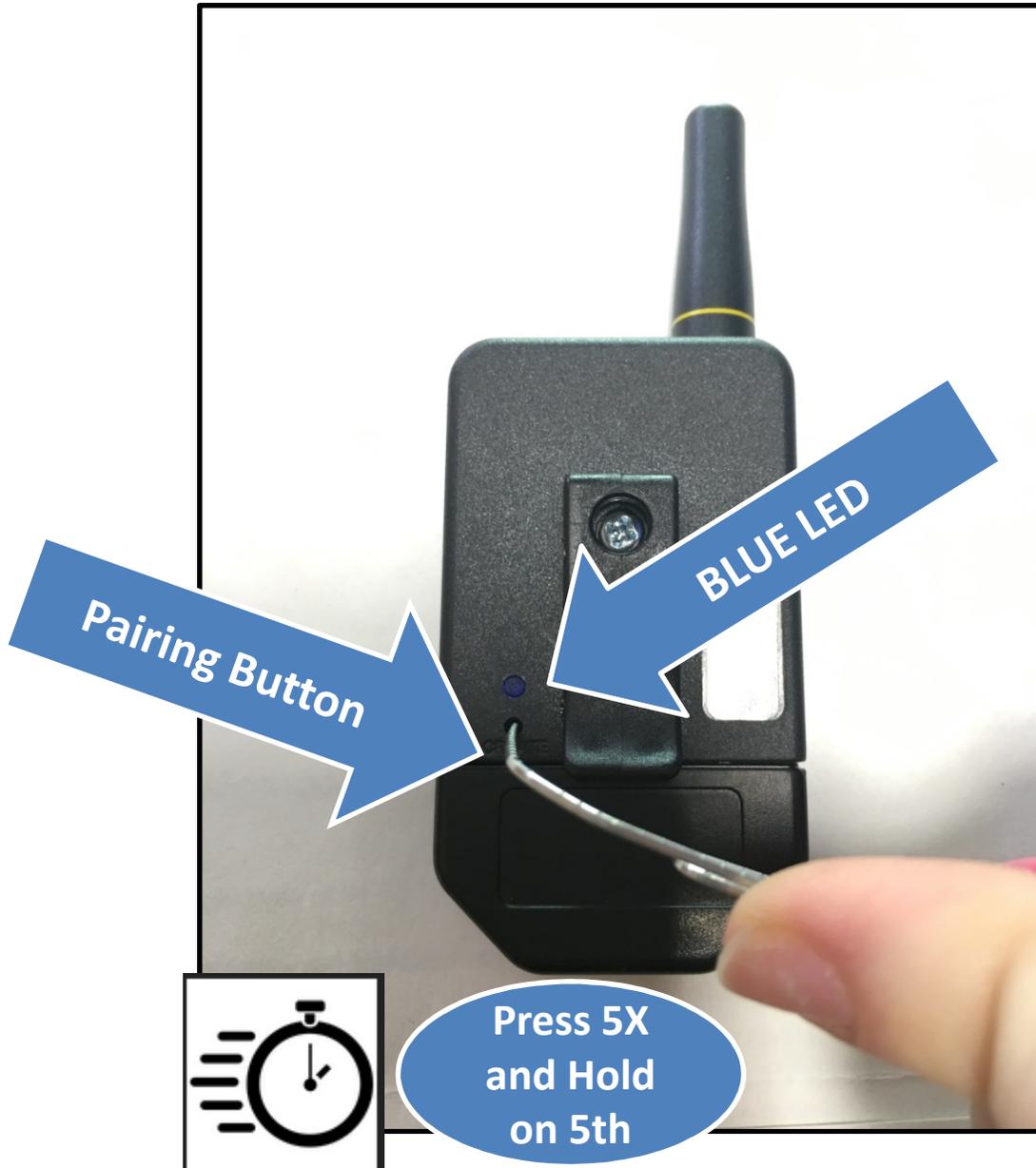


- 1. Press the pairing button 1 time and release***
- 2. Watch the BLUE LED. The BLUE LED will flash 1 or 2 pattern flashes repeatedly for about 10 seconds***

***One Flash Pattern on LED Indicates the Transmitter is a Copy  
Two Flash Pattern on LED Indicates the Transmitter is a Master***

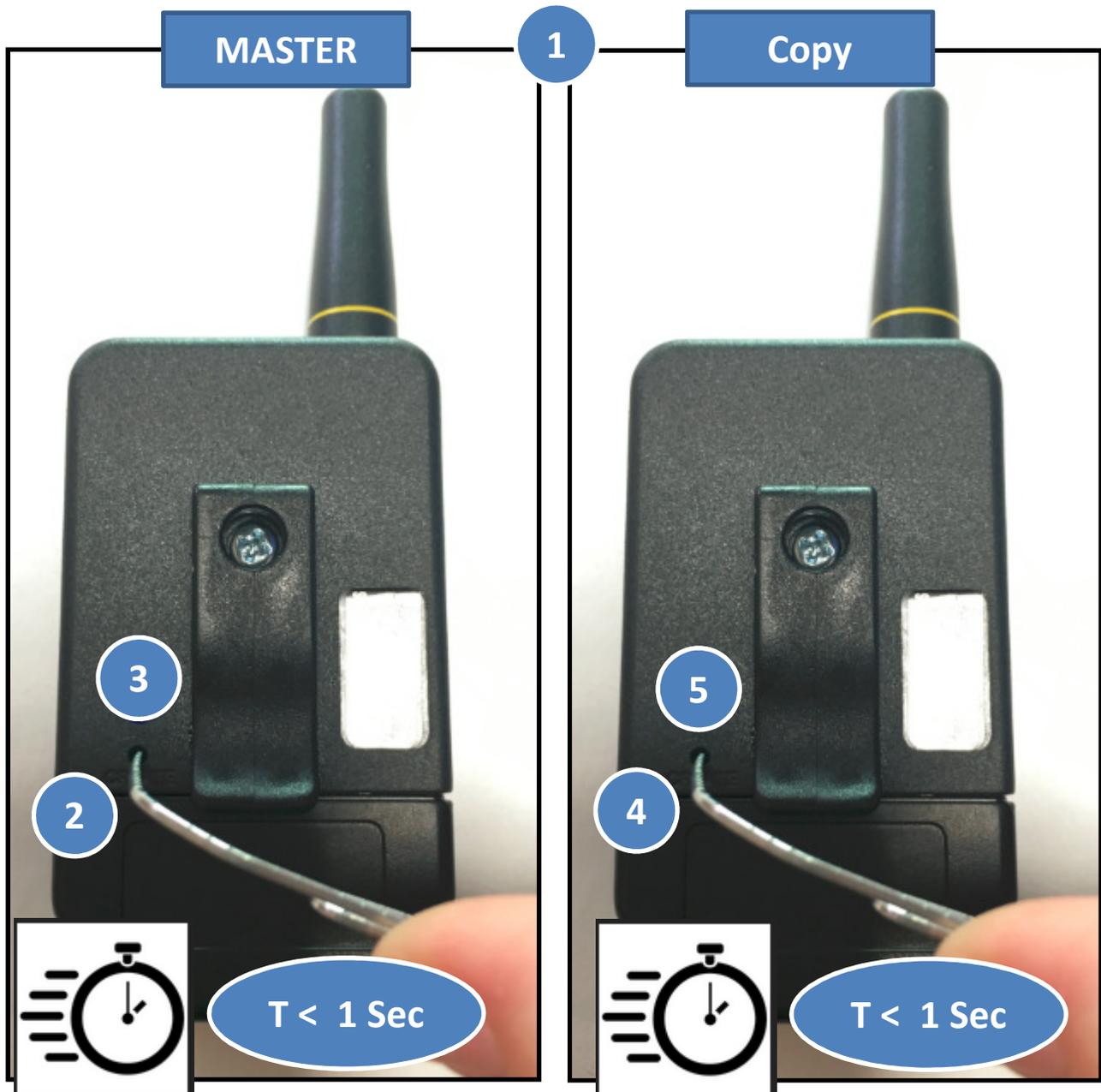
***Note: All transmitters are shipped by Roll Rite as MASTER Transmitters***

## ***Changing a MASTER Transmitter to a Copy Transmitter***



- 1. Press the pairing button on the MASTER transmitter for 5 times and hold on the 5<sup>th</sup> time until the BLUE LED flashes twice. The configuration will change from MASTER to Copy.**
- 2. Check to be sure the transmitter is now a Copy: Press the pairing button once. The blue LED will flash one time and repeat single flash pattern for 10 seconds.**
- 3. Continue to directions to create the Copy Transmitter by copying the pairing data from the MASTER Transmitter**

## Creating a Copy Transmitter from a MASTER Transmitter



1. Set the two transmitters side by side on flat surface as shown.
2. Press the **MASTER** pairing button for less than one second
3. Observe the **MASTER** transmitter **BLUE LED** will begin to flash
4. Press the **Copy** pairing button for less than one second
5. Observe the **Copy** transmitter **BLUE LED** will begin to flash
6. After the flashing stops on both transmitters, the Copy pairing is complete. Both transmitters will now operate the same receiver

# **Section Five**

## **MAINTENANCE AND TROUBLESHOOTING**

# Changing the Transmitter Battery

**NOTE: Changing the Battery DOES NOT AFFECT STORED PAIRING. It is not necessary to pair the transmitter to receiver after changing the battery.**



1

Remove the Rubber Protective Cover from the RF Transmitter

Replace the Key FOB battery when transmitter performance is inconsistent or the transmitter Red LED becomes dim

### Battery Specification:

- CR2032 Coin Cell
- Voltage = 3 Volts when battery is new
- Positive Terminal Faces Upward in Battery Bracket

2

Remove the Battery Cover from the Transmitter. Press at the center and slide down

3

Remove the Battery from the Battery Bracket by sliding the battery downward.

## Troubleshooting the Receiver

Problem	Possible Cause	Solution
System does not operate from Receiver switches	Truck Battery has low voltage	Turn off all vehicle accessories and running lights. Disconnect negative terminal from truck batteries. Wait 10 minutes. Check the vehicle battery voltage. If vehicle battery voltage is less than 12.0 Volts, replace vehicle batteries.
System does not operate from Receiver switches	Truck - to - Trailer harness or plug issue	With trailer plug inserted, using a multi-meter, check the Voltage between the BAT+ and GND terminals of the Motor Relay. It should be greater than 12V. Compare this value to battery voltage. If the motor relay input voltage is more than 2V lower than the battery voltage, isolate the problem to one or more components in the Truck to Trailer circuit and replace that circuit component.
System does not operate from Receiver switches	Motor Relay internal fault	With trailer plug inserted, using a multi-meter, check the Voltage between the BAT+ and GND terminals of the Motor Relay. This value should be greater than 12V. Next, check the voltage between the RF power Spade Terminals BAT+ and GND. The value at the RF power terminals should be the same as the value of the BAT+ and GND. If they are not, replace the Motor Relay.
System does not operate from Receiver switches	After running the first three tests presented in this table, the possible cause is the RF Receiver	Check all Power and Ground connections between vehicle battery and RF Receiver. Check motor relay operation. Assure the device is being powered up properly – see “Starting the System”. If the receiver LED does not flash once when power is connect, replace the RF Receiver

## Troubleshooting the Transmitter

Problem	Possible Cause	Solution
System operates from receiver switches but does not operate from transmitter	Transmitter is not in operational mode	Turn the transmitter on
System operates from the Transmitter intermittently	Transmitter Battery is low	Change Transmitter Battery
System operates from the Transmitter intermittently	Transmitter turned OFF while in use	Do not turn the transmitter off while running the system
Transmitter does not power up	Transmitter Battery	Change Transmitter Battery
Transmitter does not power up	Receiver is in Lock Out Mode	Turn receiver on to Operating mode
Transmitter does not power up	Transmitter is not paired	Pair transmitter to receiver.