



Roll Rite Automated Tarp System Remote Control Owner's Guide

Component Photos

[Radio Frequency Transmitter \(figure\)](#)

[Radio Frequency Receiver \(figure\)](#)

Connecting RF Receiver to Motor Controller

Installation Requirements

- All electrical terminals shall be coated with dielectric grease, Synthetic NLGI Grade 2 or equivalent
- Remove negative electrical terminals of all chassis batteries prior to installation of Roll Rite components
- Roll Rite motor relay and Radio Frequency Receiver shall be installed on a vertical plane with the wires from terminals facing down. This is the only approved installation orientation for Roll Rite electrical components
- Torque Motor Relay Terminal 7/16" fasteners to 8 ft.lb (11 Nm)

Installation Procedure



Roll Rite Automated Tarp Systems contain potentially hazardous energy which must be isolated prior to service and installation of components. Failure to complete all instructions in the order stated may result in injury or destruction of property

1. Disconnect all Main Negative Battery Terminals from the Vehicle Battery System, thereby isolating stored electrical energy from Roll Rite tarp system components
2. Connect Roll Rite Motor Controller
 - a. Connect Positive Power to Bat+ Terminal, Slide Red Boot over Terminal connection
 - b. Connect Negative Power to GND Terminal, Slide Black Boot over Terminal connection
 - c. Connect Blue Motor Cable to M1 Terminal, Slide Blue Boot over Terminal connection



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- d. Connect Yellow Motor Cable to M2 Terminal, Slide Yellow Boot over Terminal connection
3. Connect Radio Frequency Receiver to Roll Rite Motor Controller
 - a. Add dielectric grease to all ¼" terminals of the Radio Frequency Receiver and Motor Controller
 - b. Connect ¼" Flag Terminal of Red Wire to BAT+ Terminal
 - c. Connect ¼" Flag Terminal of Black Wire to GND Terminal
 - d. Connect ¼" Flag Terminal of Yellow Wire to FWD Terminal
 - e. Connect ¼" Flag Terminal of Blue Wire to REV Terminal
4. Install Motor Relay and RF Receiver on vehicle chassis, following installation requirements in this document
5. Connect Main Negative Battery Terminals to Main Negative Wires on Chassis Wiring Harness

Wiring Diagram (figure)

Pairing the Single Function Transmitter with One Receiver

1. Complete all electrical connections between Radio Frequency Receiver and
2. Install Radio Frequency Receiver on vehicle body
3. On the receiver, press *Uncover* and *Pair* at the same time, the Receiver LED will flash indicating pairing has started (figure)
4. Press the pair button the transmitter, the Receiver LED will illuminate solid, indicating the receiver has paired with the transmitter (figure)
5. On the transmitter, Press the *Cover* and *Uncover* buttons simultaneously to set the receiver as the primary motor controller. The receiver LED will illuminate once indicating the pairing has completed. (figure)

Pairing the Multi-Function Transmitter With More Than One Receiver

The Roll Rite Transmitter can be configured to drive between 1 and 3 receivers. This is implemented when more than one motor is working on a truck or trailer. For example, a typical grain trailer will have one motor operating the tarp and one motor per automated hopper door. The total motors and receivers is three in this example.

Tarp Motor Pairing:

1. On the receiver/relay connected to the tarp motor, press *Uncover* and *Pair* at the same time, the Receiver LED will flash indicating pairing has started (figure)
2. Press the pair button the transmitter, the Receiver LED will illuminate solid, indicating the receiver has paired with the transmitter (figure)



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3. On the transmitter select the “Tarp” Cover and Uncover button simultaneously (figure)
4. The receiver LED will flash 1 time, indicating the transmitter has paired with the Tarp Motor Receiver

Front Hopper Motor Pairing:

1. On the receiver/relay connected to the hopper motor at the front of the trailer, press *Uncover* and *Pair* at the same time, the Receiver LED will flash indicating pairing has started (figure)
2. Press the pair button the transmitter, the Receiver LED will illuminate solid, indicating the receiver has paired with the transmitter (figure)
3. On the transmitter select the “Front Hopper” Cover and *Uncover* button simultaneously (figure)
4. The receiver LED will flash 2 times, indicating the transmitter has paired with the receiver operating with the Front Hopper Door

Rear Hopper Motor Pairing:

1. On the receiver/relay connected to the rear hopper motor at the rear of the trailer, press *Uncover* and *Pair* at the same time, the Receiver LED will flash indicating pairing has started (figure)
2. Press the pair button the transmitter, the Receiver LED will illuminate solid, indicating the receiver has paired with the transmitter (figure)
3. On the transmitter select the “Rear Hopper” Cover and *Uncover* button simultaneously (figure)
4. The receiver LED will flash 3 times, indicating the transmitter has paired with this receiver

Operating the System

Turning the Receiver On (figure)

Uncovering the Tarp (figure)

Using the Receiver Buttons to Uncover (figure)

Using the Transmitter to Uncover (figure)

Covering the Tarp (figure)

Turning the Receiver Off (figure)



Specifications

FCC Statement of Compliance

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

IC Statement of Compliance - English

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC: [IC Company number of your product]) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

IC Déclaration de Conformité

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la



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puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (IC: [IC Company number of your product]) de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.