



*Roll Rite, LLC and its entire staff would like to not only Thank You but congratulate you on your purchase of what we feel to be the finest line of tarping systems in the industry. In this booklet you will find:*

## **DC Series Owners Manual**

*If you have any questions or concerns we would love to hear from you:  
800-297-9905*

*Questions? Contact Customer Service @ 800-297-9905  
Or  
Parts Diagrams see "Parts and Diagrams" section on web at [www.rollrite.com](http://www.rollrite.com)*

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# DC Series Operating Manual

## *Arm Style Systems*

Roll Rite, LLC designs our tarping systems to be as simple as possible to operate. However there are some things that operators need to know.

***Warning – always watch for overhead hazards, tower and arms can potentially come into contact with overhead wires.***

### *To Cover Container:*

- 1) On all systems with remote control operation you must turn on the control box. To activate (power up or down) the control box you must press and hold buttons one and two on the control box or the key fob for 3 seconds (see Fig. 1). Non remote control systems are always active.

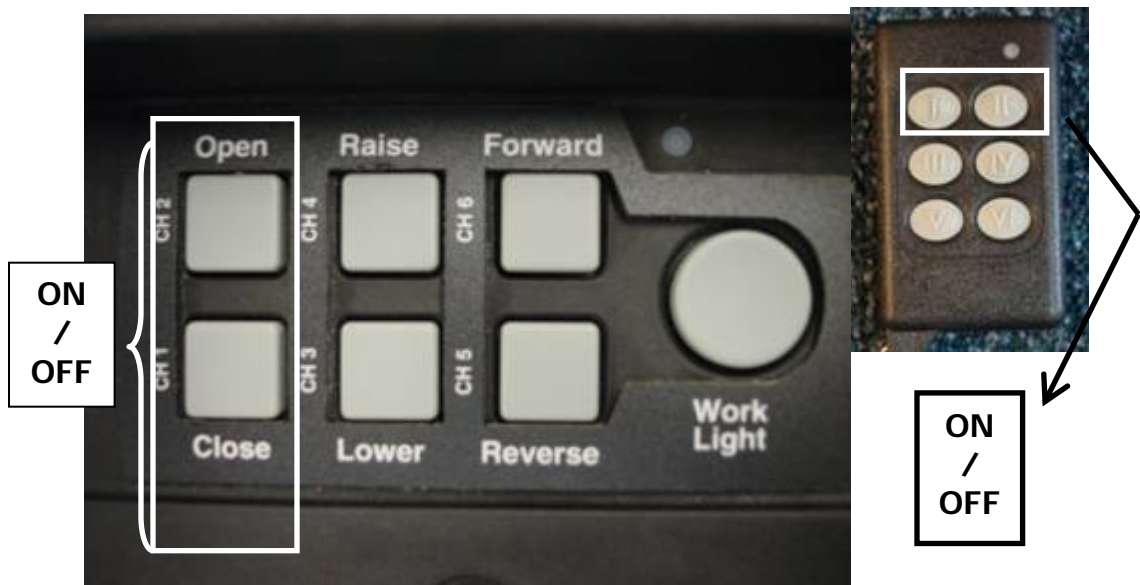


Figure 1

- 2) Always deploy 2-3 feet of tarp before moving the tower and/or pivots. To deploy tarp press & hold button 1 on the control box or the key fob (see Fig. 2), or on non remote systems there will be switch to wind and unwind your tarp. In rare cases with stationary pivot systems you may have to do this before pulling container all the way onto the truck/trailer.

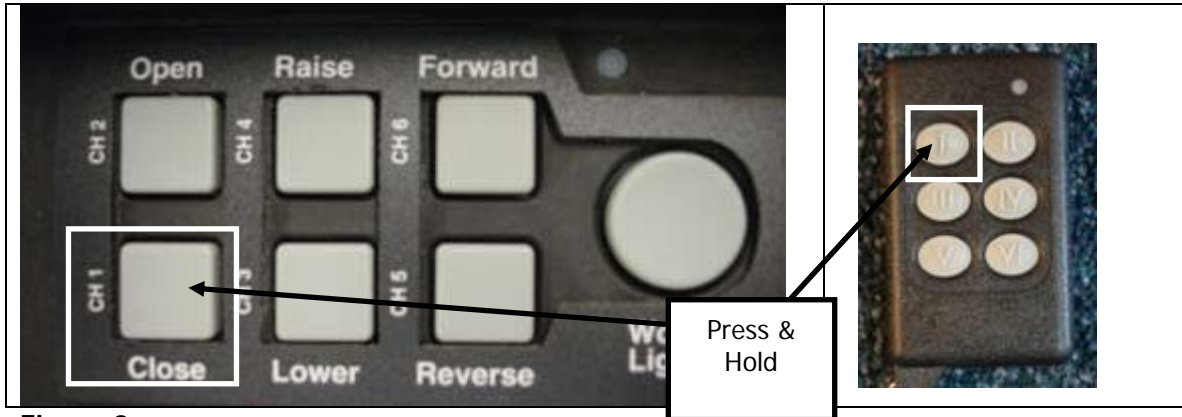


Figure 2

- 3) If you have an adjustable tower raise tower as high as possible to keep tarp from dragging on the load in the container. To raise tower press & hold button 4 on the control box or the key fob (see Fig. 3). On non remote control systems there will be a manual valve to operate you tower.

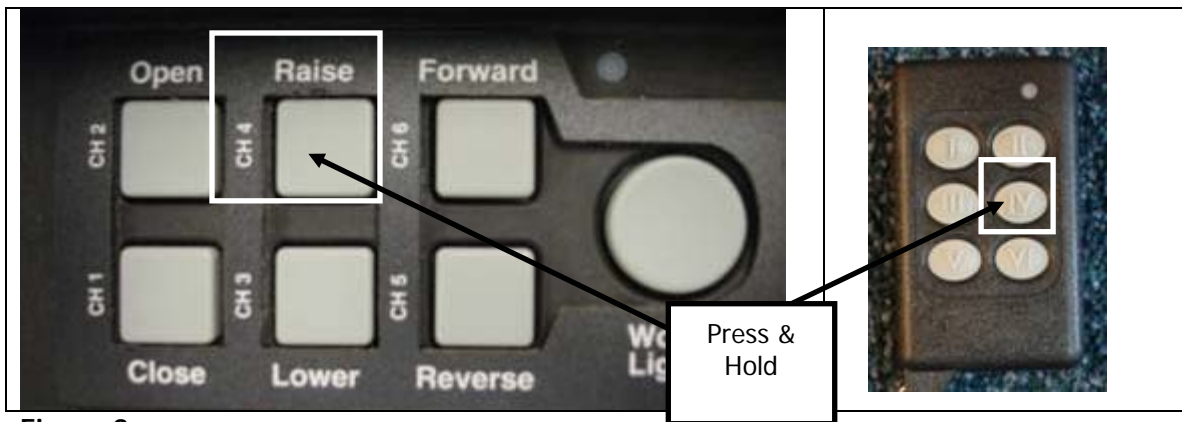


Figure 3

- 4) Deploy tarp over container the rest of the way. If you have sliding pivots adjust forward and backward as needed. Buttons 5 & 6 on your control box or key fob will operate your sliding pivots for and aft (see Fig. 4). On non remote control systems there will be a manual valve to operate your sliding pivots.

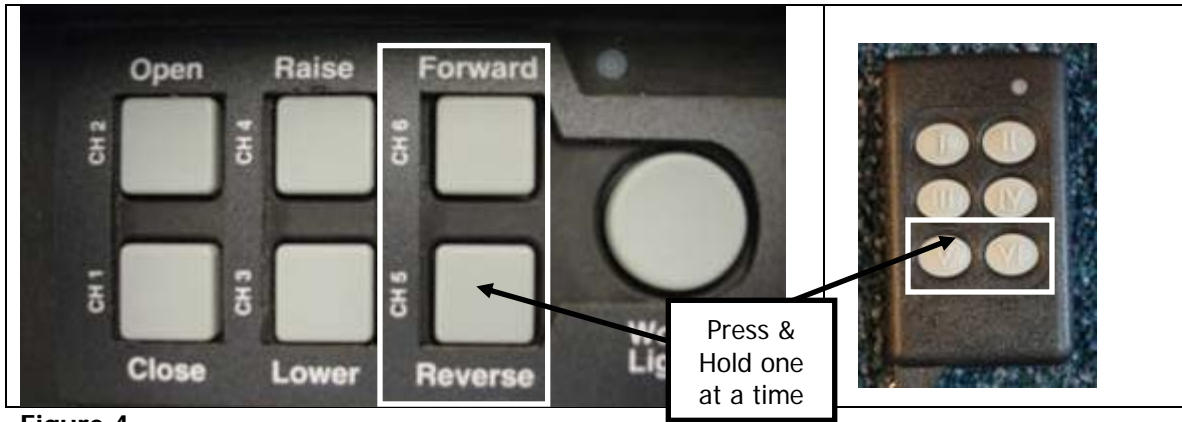


Figure 4

- 5) Lower tower so that tarp wraps neatly around front of container. To lower the tower press & hold button 3 on the control box or the key fob (see Fig. 5). On short cans you may have to pull tarp down to the top of the container and secure it with bungee cords.

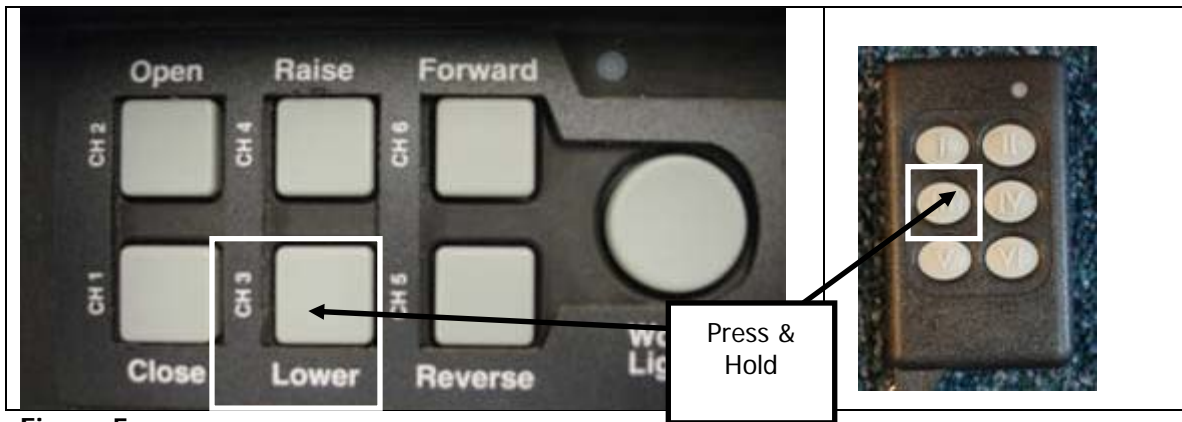


Figure 5

- 6) Tie tarp down as needed.

## To Uncover Container:

- 1) Un-tie/un-bungee the tarp.
- 2) If you have an adjustable tower, raise tower to maximum height to prevent the tarp from dragging on the load. To raise tower press & hold button 4 on your control box or key fob (see Fig. 6). For non remote control systems there will be a manual valve to operate your tower.

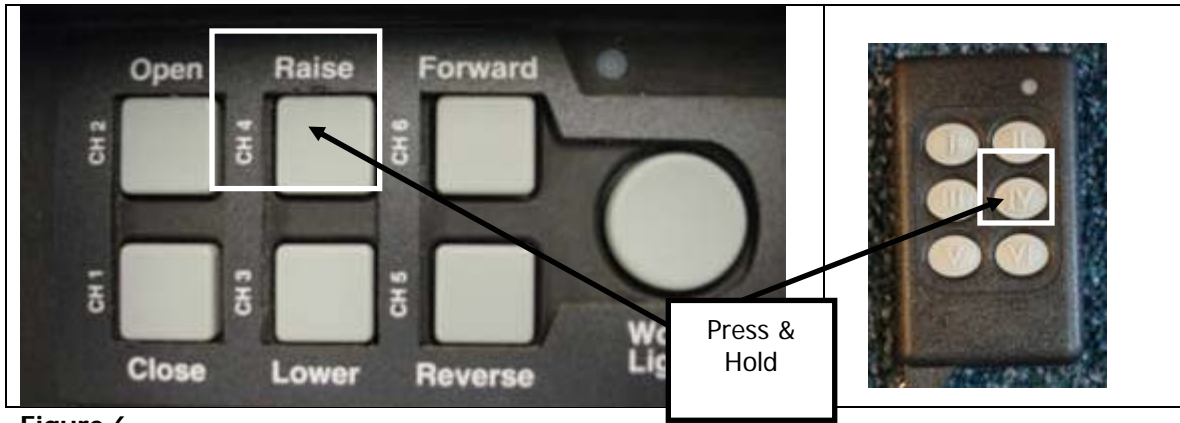


Figure 6

- 3) Wind the tarp in far enough to clear the container as it is dumped or unloaded. To wind the tarp press & hold button 2 on your control box or key fob (see Fig. 7). On non remote control systems there will be a switch to operate you tarp in and out. If you have sliding pivots you may wish to adjust these also to give more container clearance. Buttons 5 & 6 on your control box or key fob will operate your sliding pivots for and aft (see Fig. 8).

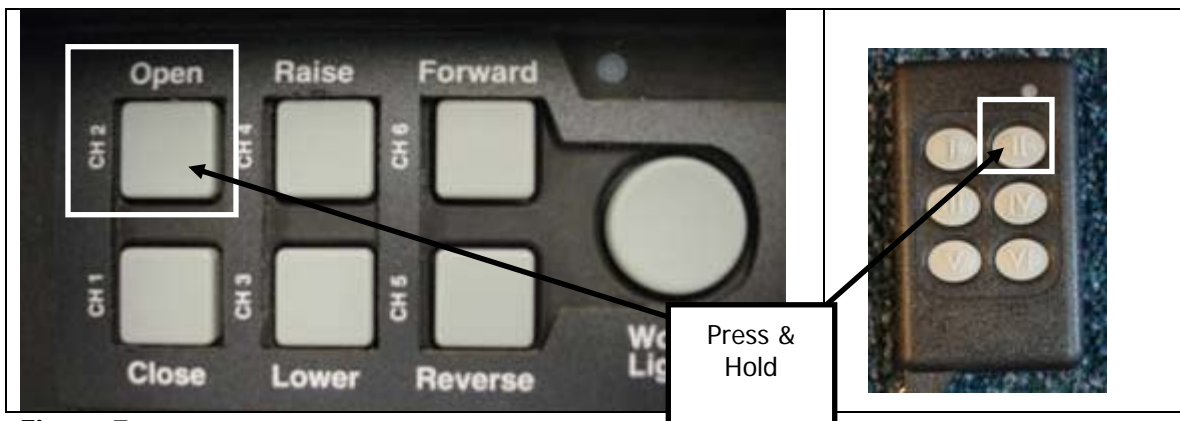


Figure 7

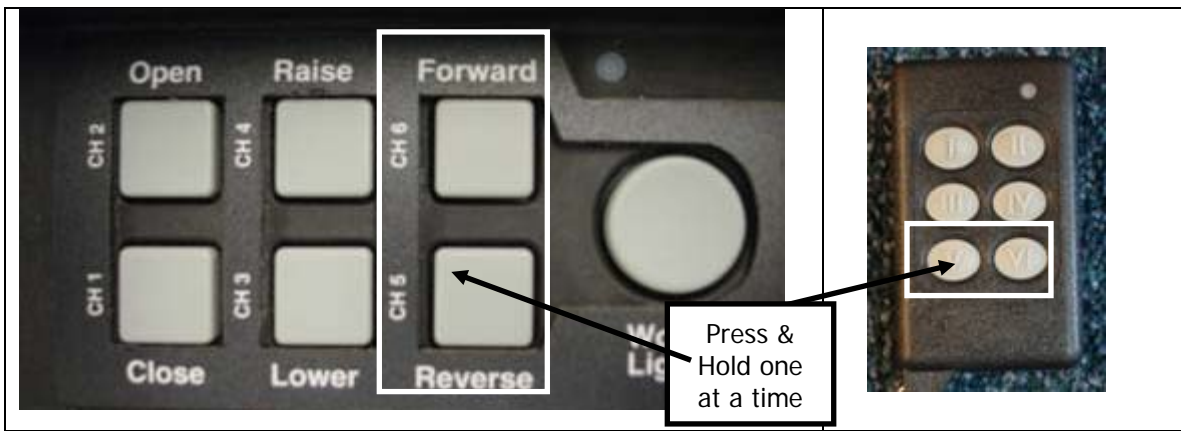


Figure 8

- 4) If you are dropping the can and traveling with no can or an empty can, return the tarp system to its home position. A standard home position is with the tower all the way down and the sliding pivots all the way to the back. On non remote control systems there will be a manual valve to operate your tower and another to operate your sliding pivots.

# Armless Systems:

## To Cover Container:

- 1) On all systems with remote control operation you must turn on the control box. To activate (power up or down) the control box you must press and hold buttons one and two on the control box or the key fob (see Fig. 9). Non remote control systems are always active.

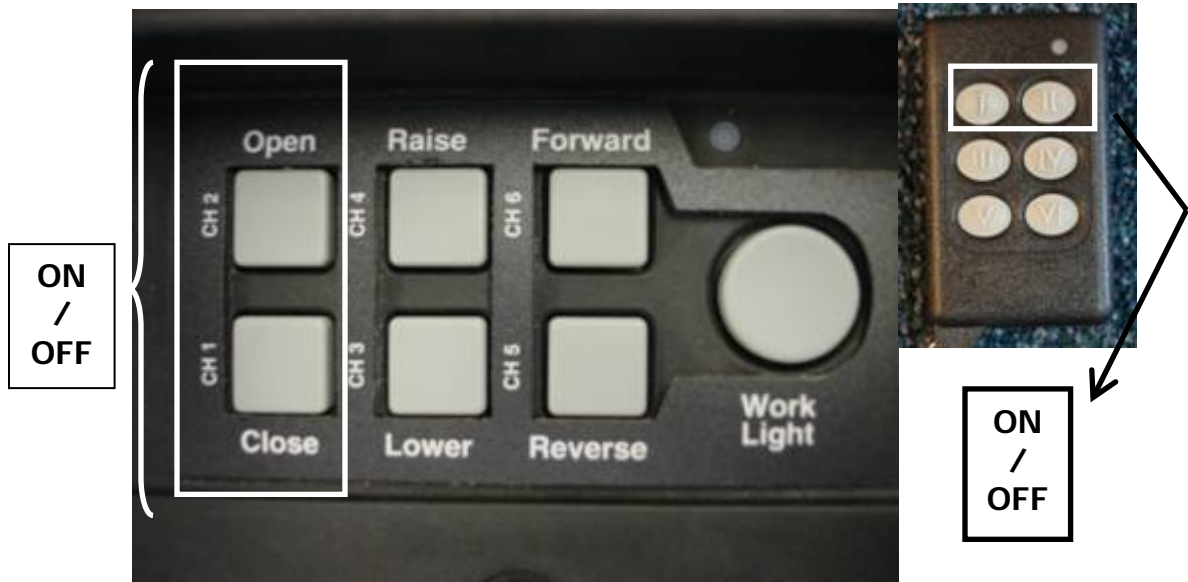


Figure 9

- 2) Raise tower as high as possible to keep tarp from dragging on the load in the container. To raise tower press & hold button 4 on the control box or the key fob (see Fig. 10).

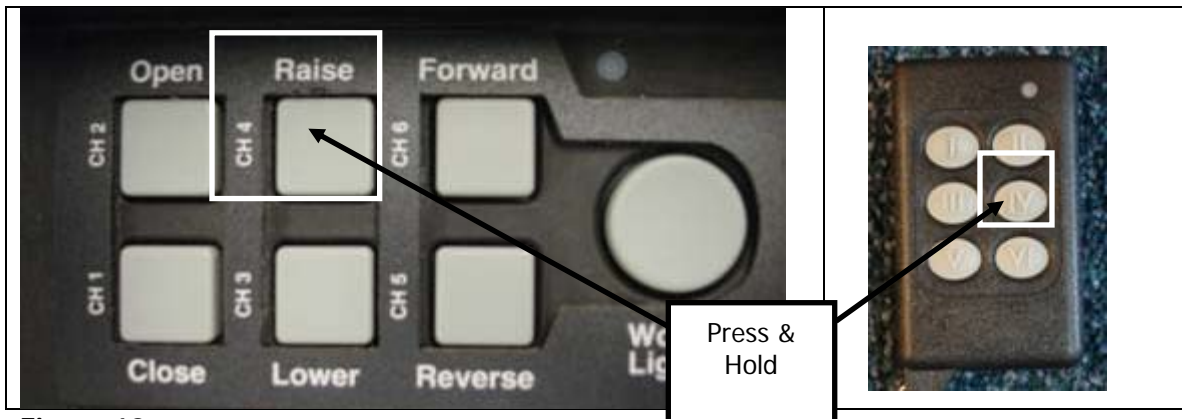


Figure 10



- 3) Deploy tarp and walk tarp to rear of container. To deploy tarp press & hold button 1 on the control box or the key fob (see Fig. 11), or on non remote systems there will be switch to wind and unwind your tarp. In rare cases with stationary pivot systems you may have to do this before pulling container all the way onto the truck/trailer.

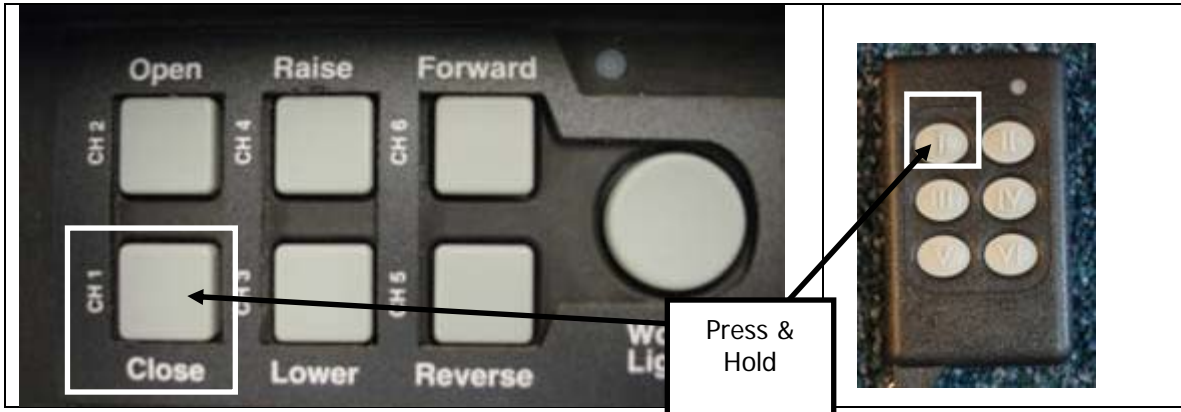


Figure 11

- 4) Secure tarp at rear of the container.
- 5) Lower tower by pressing & holding button 3 on the control box or the key fob (see Fig. 12).

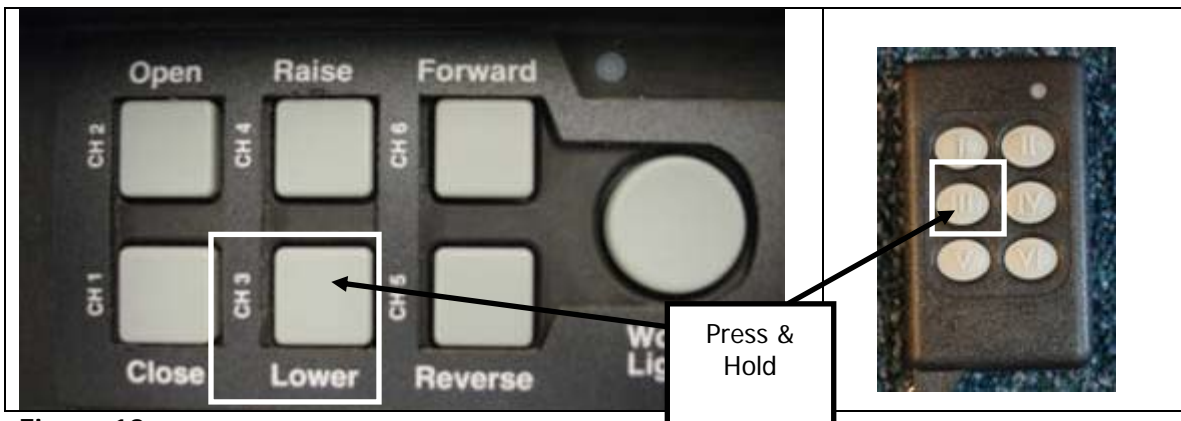


Figure 12

- 6) Tighten tarp by pressing and holding button 2 on the control box or on the key fob until the tarp is tight (see Fig. 13).

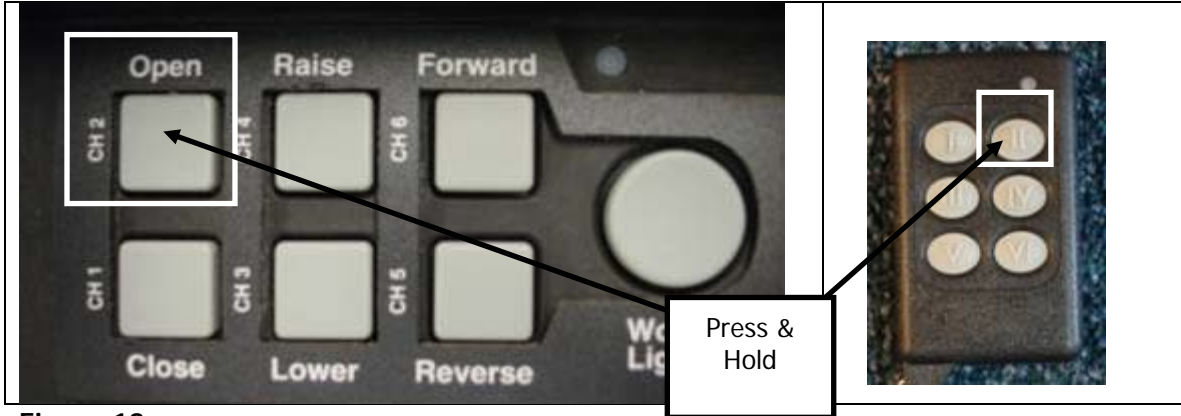


Figure 13

*To Uncover Container:*

- 1) Loosen the tarp, uncoil several feet of tarp. To loosen the tarp press & hold button 1 on the control box or the key fob (see Fig 14).

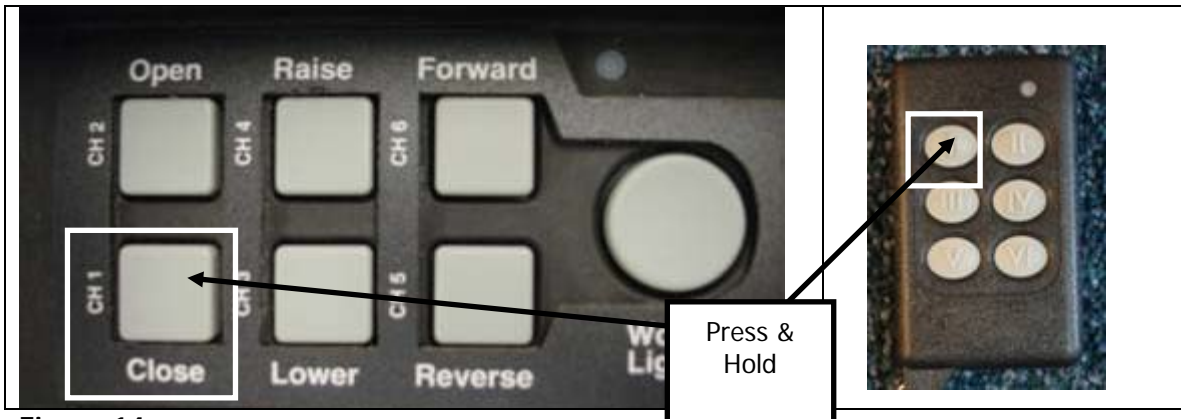


Figure 14

- 2) Raise tower as high as possible to keep tarp from dragging on the load in the container. To raise tower press & hold button 4 on the control box or the key fob (see Fig. 15).

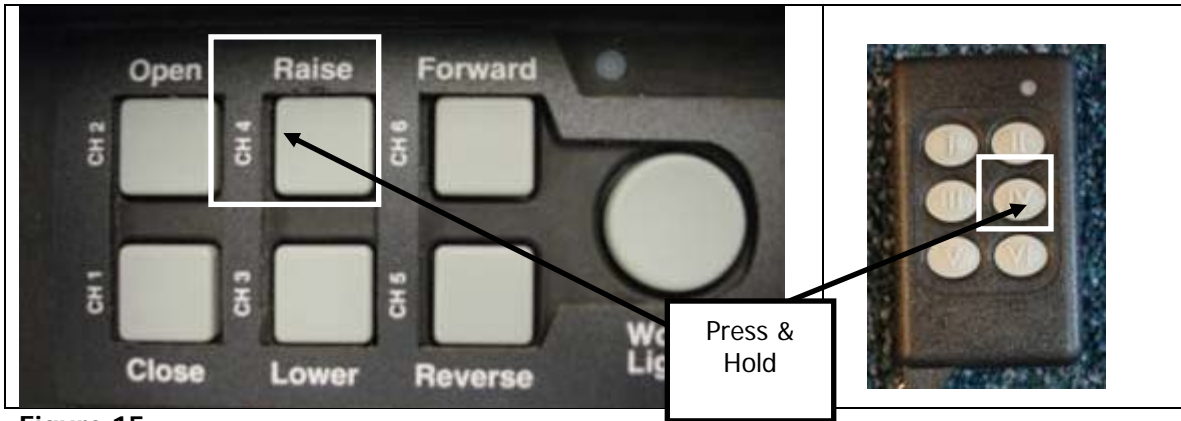


Figure 15

- 3) Walk tarp in as you wind it. To wind the tarp press & hold button 2 on the control box or on the key fob (see Fig. 16).

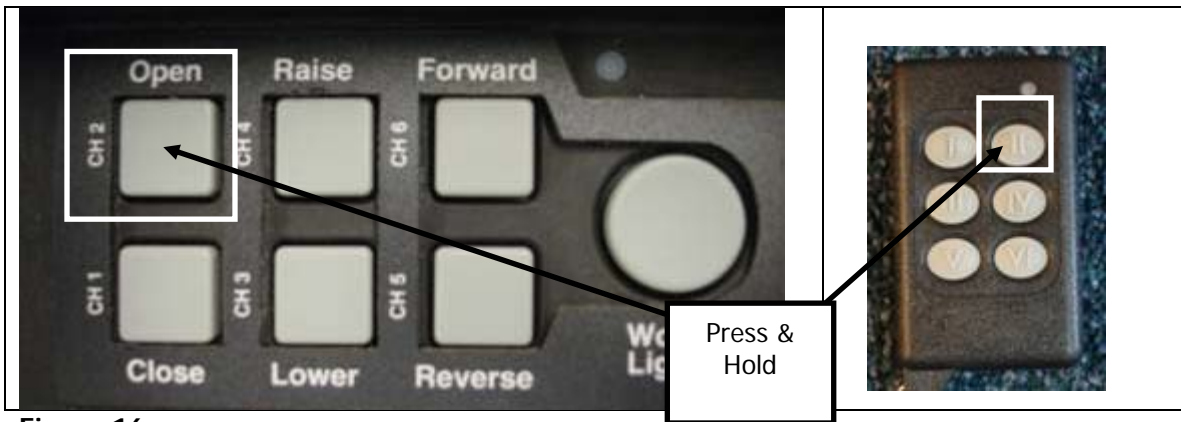


Figure 16

- 4) Unload or dump container. If you are traveling with an empty or no container return the system to its home position. Home position is typically with the tower in the lowered position. To lower the tower press & hold button 3 on the control box or the key fob (see Fig. 17).

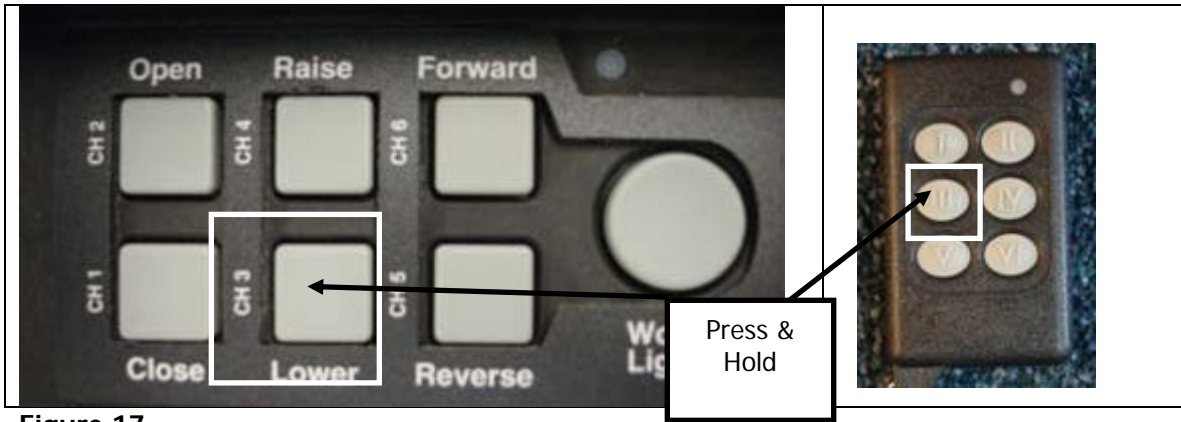


Figure 17

# Maintenance Manual

*Roll Rite, LLC designs its tarping systems and power kits to be as maintenance free as possible, contributing to the overall value of the product.*

## **Maintenance intervals vary based on environmental conditions.**

Roll Rite, LLC recommends that:

- All electrical connections should be cleaned and greased regularly to prevent corrosion (fill all electrical boots, limit switch boots, etc. with dielectric grease). Electrical connections can be found at all motors, switches, contactors, limit switches, control boxes and batteries.
- All bearings with grease fittings and tower legs must be greased regularly.
- Check and tension all set screws. Set screws should be tightened until they touch and then torque them  $\frac{3}{4}$  of a revolution beyond that.
- Check motor mounting bolts and torque to 70 in-lbs (5.8 ft-lbs).
- All mounting hardware should be checked to insure all system components are securely fastened.
- Visually inspect all moving parts for abnormal or excessive wear.

*Questions? Contact Customer Service @ 800-297-9905*

*Or*

*Parts Diagrams see "Parts and Diagrams" section on web at [www.rollrite.com](http://www.rollrite.com)*

# Roll-Rite "Black Box" Troubleshooting

## LED Diagnostics, Unit @ Rest

No Light	-----	No Power or box is locked out (see Lock out feature)
Green	Continuous	Everything is OK
Green	Single Blink	Low Battery Warning. Recharge your Battery soon
Green	Double Blink	Battery is nearly dead and must be recharged before unit will operation
Yellow	Continuous	Fuse 1 (5 Amp – see fig. 10) is Blown
Yellow	Single Blink	Fuse 2 (10 Amp – see fig. 10) is Blown
Yellow	Double Blink	Fuse 3 (15 Amp – see fig. 10) is Blown
Yellow	Triple Blink	Fuse 4 (15 Amp – see fig 10) is Blown
Red	Continuous	Unit is in Program Mode

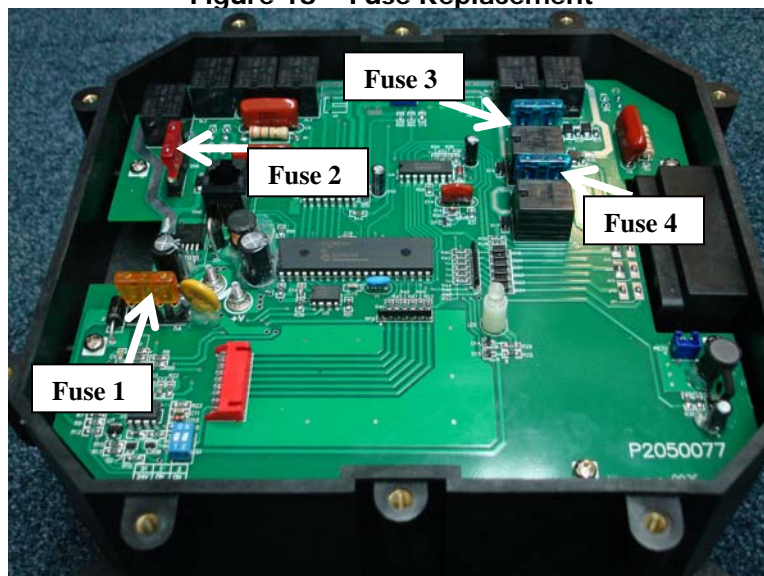
## LED Diagnostics, Unit in Operation

Red	Continuous	Confirms it is in operation
Red	Single Blink	Low Battery warning. Recharge soon
Red	Double Blink	Battery is nearly dead – unit will not operate until charged

## Fuse Replacement:

- 1) Using the codes above to diagnose which fuse is blown
- 2) Remove the 10 bolts that hold the lid in place
- 3) Carefully lift lid and unplug switch leads
- 4) Do not touch circuit board any more than necessary
- 5) Carefully locate (see Fig. 10) & remove the blown fuse and replace it with a fuse that is the same size
- 6) Replace the lid
  - a. Plug switch leads in
  - b. Arrange so that they will not be pinched as lid is replaced
  - c. Insure that gasket is in place in groove in lid
  - d. Press lid back into place and replace 10 lid bolts
  - e. Tighten lid bolts in a star pattern to insure lid tightens evenly

**Figure 18 – Fuse Replacement**



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## Application Programming

This section is for reference only. All boxes come preprogrammed for the application. This box has 2 programming modes. Program mode 1 all functions should be off for this type of application. For details on settings in program mode 2 see the application table below for channel settings.

Application	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6
Construction/Ag	Off	On	Off	Off	Off	Off
Waste	Off	On	Off	On	Off	Off

- 1) Confirm that the box is turned on (the status LED should be green).
- 2) Press and release the work light button 6 times within 6 seconds – The green LED will flash 3 times and then change to Red.
- 3) Press and release the work light button one additional time – The LED will flash red and change again to Solid Red.
- 4) Press and release each channel button to verify the correct setting for each (see table above for application specific channel settings). The LED will flash green once to confirm that the setting is turned on or it will flash green twice to indicate that the setting is turned off.
- 5) Wait 8 seconds for the box to exit programming mode – the LED will turn green.

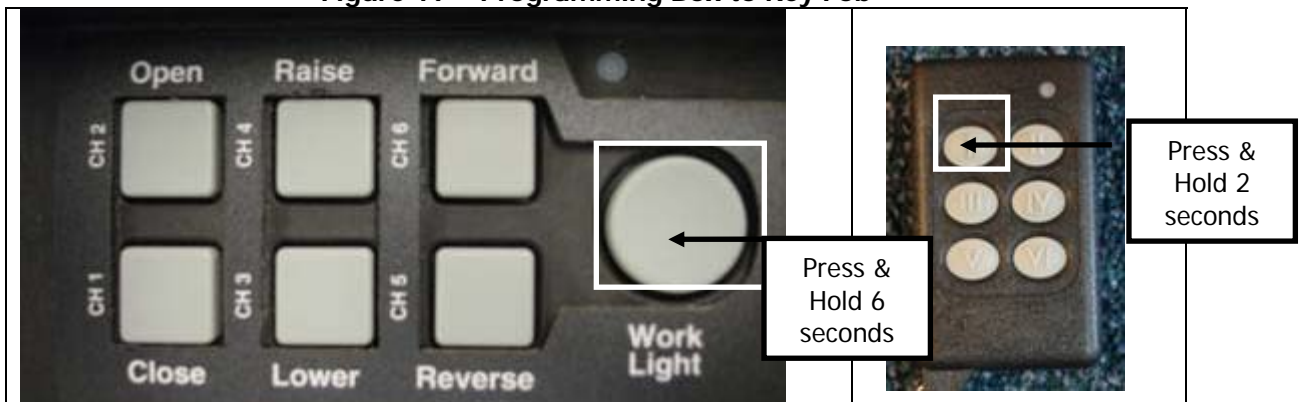
## Key fob Programming

The control box comes preprogrammed to the two supplied remote key fobs. If for any reason you should need to re-program them or additional key fobs follow the following procedure:

- 1) Confirm that the box is turned on (the status LED should be lit green).
- 2) Press and hold the round work light button for 6 seconds. The LED will flash red 3 times to indicate program mode.
- 3) Press and hold button I (see figure 9 below) on the first key fob for 2 seconds then release. Press button I for 2 seconds on the second key fob. Repeat for each additional key fob that is to be programmed.
- 4) Let box stand until Status LED returns to green. Programming is complete.

The control box will learn a maximum of 4 key fobs. All key fobs must be programmed at the same time. Programming an additional key fob at a later date will erase all previously stored key fobs.

Figure 19 – Programming Box to Key Fob



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### **Lock Out Feature:**

The control box incorporates a safety feature to shut off automatically after 6 minutes\* of inactivity. Press buttons 1 & 2 simultaneously on the box or remote for two seconds (as described above) to power the unit back up.

To lock the box down manually (shut off), press 1 & 2 simultaneously on the box or remote for two seconds as described above.

\*Boxes produced after 8-10-09 may have programmable time out feature.

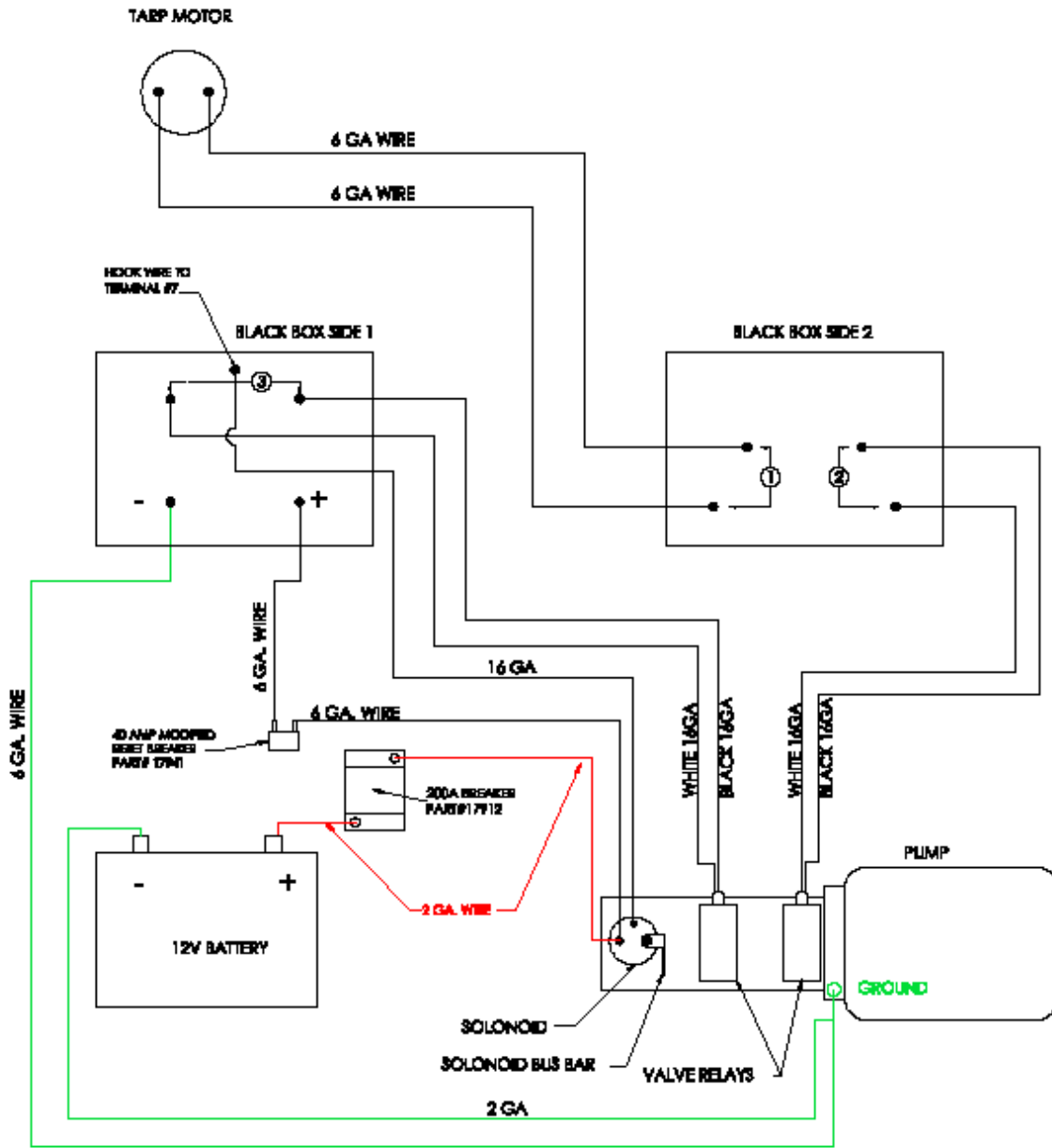
To adjust the time delay before automatic shut off:

- 1) Turn the box on
- 2) Press and release the work light button 6 times, wait until the light stops flashing press the work light button again, the LED will flash once, press the work light button a final time, LED will flash once – you are now in the program mode you need to be in to adjust the automatic shut down time.
- 3) Reference diagram below, # indicated on the button represents minutes until the box automatically shuts down. "0" means it will never shut down automatically.
- 4) After selecting shut down time wait for the LED to return to green. Programming complete.





# System Wiring Diagram



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# Quick Reference Guide - (Detach and Put in truck)

## Black Box Operation:

- ❖ **ON/OFF** – To turn the control box on or off, press CH1 and CH2 simultaneously for 2 seconds. This can be done from the box itself (see figure 6) or from the key fob (see figure 7) by pressing buttons I & II simultaneously.
- ❖ **Work Light** – If your system is equipped with work lights, turn the control box on and then press the Work Light button to turn them on or off. **THIS IS NOT THE ON/OFF BUTTON FOR THE CONTROL BOX!**
- ❖ **CH1 and CH2** – control buttons for output #1 on the control box (typically connected to the tarp motor). These two buttons correspond to buttons I and II respectively on the remote key fob. Pressing these two buttons at the same time and holding for 2 seconds will turn the control box on and off.
- ❖ **CH3 and CH4** – control buttons for output #2 on the control box (typically connected to hopper door or tower up/down). These two buttons correspond to buttons III and IV respectively on the remote key fob. Press and release these two buttons at the same time on the key fob to operate the work light from the remote.
- ❖ **CH5 and CH6** – control buttons for output #3 on the control box (typically connected to hopper door or sliding pivots). These two buttons correspond to buttons V and VI respectively on the remote key fob.

## Lock Out Feature:

The control box incorporates a programmable safety feature which shuts it off automatically after a given period of inactivity. This feature is programmable, see "Lock Out Feature" section in your operating instructions. Press buttons 1 & 2 simultaneously on the box or remote for two seconds (as described above) to power the unit back up.

To lock the box down manually (shut off), press 1 & 2 simultaneously on the box or remote for two seconds as described above.

If you have any issues please call Roll Rite – 800-297-9905