



LOCK N RELEASE

HOPPER DOOR CONTROL SYSTEM

SIoux CITY TARP, INC.

ONE OF NATION'S LARGEST SUPPLIERS OF
NEW AND REPLACEMENT TARPS AND PARTS!

LOCK-N-RELEASE

INSTALLATION MANUAL

GETTING STARTED

IMPORTANT:

PLEASE READ MANUAL THOROUGHLY AND COMPLETELY.

This manual explains how to install, operate & maintain the Sioux City Tarp LOCK-N-RELEASE safely.

SAFETY NOTICES:

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met. For Questions Call: **888.256.6939**

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

UNPACKING YOUR SYSTEM:

After the box arrives at your facility. Remove the contents and spread them out on an open surface to ensure that everything has arrived properly. The following items should be included in your Sioux City Tarp LOCK-N-RELEASE kit*.

**Kits may vary depending on trailer.*



REVIEW THE PACKING LIST

THESE PARTS WILL INCLUDE :

Description	Part Number
The hopper drive unit with 12-volt power	SCT-LNR-001
The mounting motor cover	SCT-LNR-002
The hinge bracket attached to the motor	SCT-LNR-003
The mounting motor bracket	SCT-LNR-004
The direct replacement bracket	SCT-LNR-005
The bearings that mount to the replacement bracket	SCT-LNR-006
The control box and inside it is the wireless remote control	SCT-LNR-007
Control box wireless remote control	SCT-LNR-008
The hard wire manual switch	SCT-LNR-009
3/4" shrink wrap kits	SCT-LNR-011
A package of wire clamps and screws	SCT-LNR-012
A tractor wiring kit including a 50-amp breaker, eyelets both 3/8 and 1/4, 25' wire	SCT-LNR-013
Eyelets for the motor	SCT-LNR-014
A package of 2 1/4 inch grade 8 mounting bolts with lock nuts and washers	SCT-LNR-015
Female plugs	SCT-LNR-016
U-joints	SCT-LNR-017
A manual crank adapter (Wilson only)	SCT-LNR-019
A package of rubber grommets	SCT-LNR-020
Wireloom	SCT-LNR-021
1/4" bolts, washers and lock nuts	SCT-LNR-022
Drive couplers	SCT-LNR-023
New axles if replacement is needed	SCT-LNR-024
Hex weldments	SCT-LNR-025

REQUIRED TOOLS

NEEDED FOR INSTALLATION INCLUDE:

A drill with a 3/8" drill bit
A 3/8" sized impact wrench
A Sawzall with a metal blade
A two-pound hammer
A socket set
Cable cutters
A standard screwdriver
Two vice clamps
Two 7/16", one 9/16" and one 1/2" wrenches
7/32nd allen wrench
A grinder with a buffing wheel/ cutting wheel
A tape measure
Welding equipment
A heating torch
Safety glasses and gloves

NOT ALL APPLICATIONS REQUIRE YOU TO USE EVERY PART LISTED. SOME MODIFICATIONS MAY BE NECESSARY.

*Note: When installing hopper kit, mount brackets so motor and axle shaft is as level as possible.

You may need to configure brackets differently than noted in instructions.

Check axle shaft and u-joint to see if they need replaced. These parts are included in the kit.

STEP 1

Remove manual crank gearing from bracket on your hoppers. Remote bracket also. If possible, remove everything from hopper axle so only the shaft is left.

Locate the direct replacement bracket and place on knock rail where the old manual bracket was located. Vice grip to knock rail.

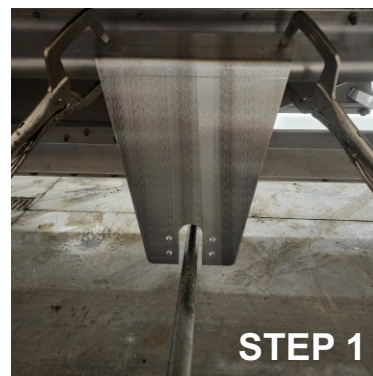
Depending on the trailer model, you may need to re-use the existing bracket, and if so, you will need to remove the manual crank gearing and lock. In most cases, you will be using the direct replacement bracket that comes with the kit.



STEP 2

Hold up the hopper axle shaft in the slot on the bracket. Slide the bushing onto the axle shaft so it is up tight against the bracket. Measure out 1"-1/2" from bushing and place a mark on the shaft. Cut shaft on the mark.

Repeat process for the other hopper.



STEP 3

With direct replacement bracket clamped to knock rail, mark and drill holes to attach bracket with a 11/32 bit. You may be able to use existing holes from old bracket. Attach with 3/8" self tapping bolts.

STEP 4

Attach bushing with axle shaft inserted to the direct replacement bracket. (You will want the axle shaft as level as possible.)



STEP 5

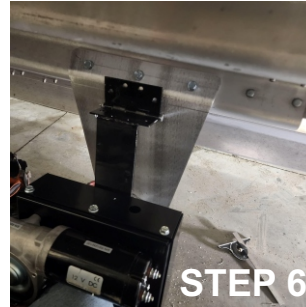
Weld the hex weldment to end of the axle shaft.



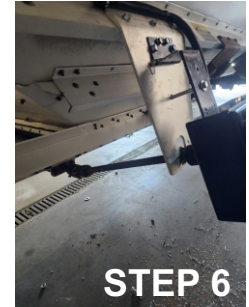
STEP 6

Place hopper motor coupler onto hex weldment. While holding in place, take hinge bracket and test fit so hinged part is against aluminum bracket and other end is flat against black gearbox.

Once motor/gearbox and hinge bracket are square, mark holes on both ends and drill with 11/32 bit. Use 3/8 self taper bolts to attach.



STEP 6



STEP 6

STEP 7

Start by routing 2 strand molded cable from back hopper motor, up to front of the trailer. Be sure to label rear hopper wire. Repeat for front hopper motor. Do not attach to trailer yet.



STEP 7

STEP 8

Mount the manual switch bracket in the center of the trailer between the hoppers. Bracket usually is mounted to bottom of frame rail on trailer. Attach manual switch to bracket.



STEP 8

STEP 9

Route manual switch cable towards front of trailer. Using the black wire loom, put over all wiring going to hopper motors and manual switch box.

Attach loom with wire clamps and screws, along frame rail and knock rails. Wire will end up running to the control box on the front bottom corner of the trailer.



STEP 9

STEP 10

Mount the control box on the front of the trailer, towards bottom corner. A 1 1/4" hole will need to be drilled in the front skin of the trailer for the motor and power wires to go through. Install a rubber grommet before putting wires through.

STEP 11

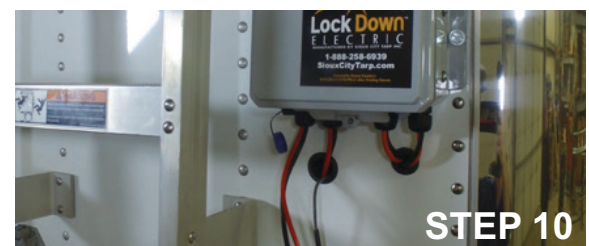
Connect hopper motor wires to corresponding pre-wired connections. Once all wires are connected, secure any additional wires with zip ties.

STEP 12

Install female plug if one isn't installed already. A 2" hold saw will be needed for plug installation. Put plug in front near air and other electrical hook ups. Connect power wires to female plug, use heat shrink and electrical tape to protect.

STEP 13

With the manual switch box mounted and plugged in, open the box lid, then press and hold the on button for five seconds. Now all the functions of your system can be controlled from this location. Simply push the open and close buttons marked for each feature your system has.



STEP 10

SWITCHING TO MANUAL MODE

Switching to the manual crank is easy. On the motor, disconnect the wiring, pull the cotter pin out, pull out the motor from the shaft and slide out the release pin out. The manual crank fits into the nut so that the hopper door can then be manually opened and closed.



REMOTE CONTROL

You will also have a wireless remote that is pre-programmed to your control box. (If you lose your remote) or to set-up a new wireless remote, open the lid of the front control panel. In the center is a button, push and hold until the red light comes on, and release the button. After the red light goes off, press and release any button on the remote control. The light on the panel will come back on again, wait for it to go back off, then on the remote control hold the on button for five seconds. The motor will jump indicating that it is on.



You have two different ways to control both your hopper doors and your roll tarp system. With the Lock-N-Release system, you'll have years of carefree operation. If you have any further questions, please contact Sioux City Tarp at **712-258-6939**.



Wilson Strap Trap Mounting Orientation



The entire system including the Lock-N-Release system and the Lockdown Electric Tarp system are controlled by the manual switch box that can be located either in the truck cab or on the trailer itself. In this example, the manual switch box will be mounted towards the center of the trailer.





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"Quality tarp systems & replacement parts for over 44 years"



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