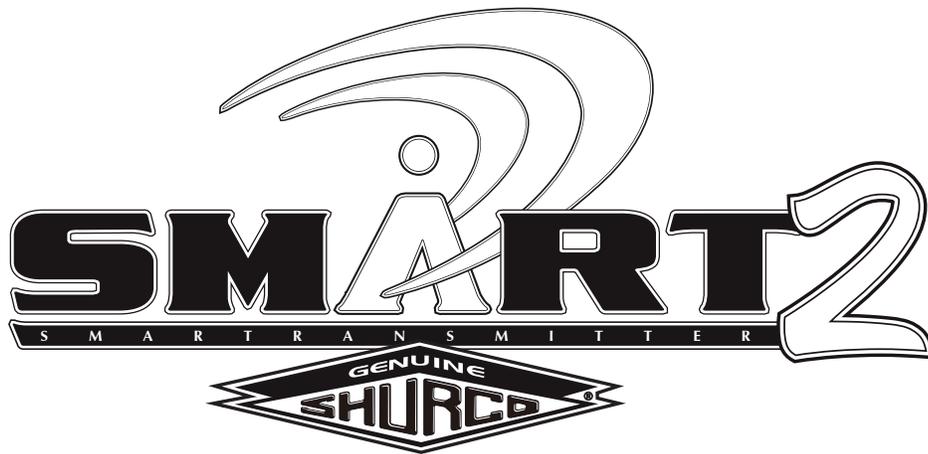




ENGINEERED TARPING SOLUTIONS

P/N 1123396 Rev. A

OPERATING INSTRUCTIONS

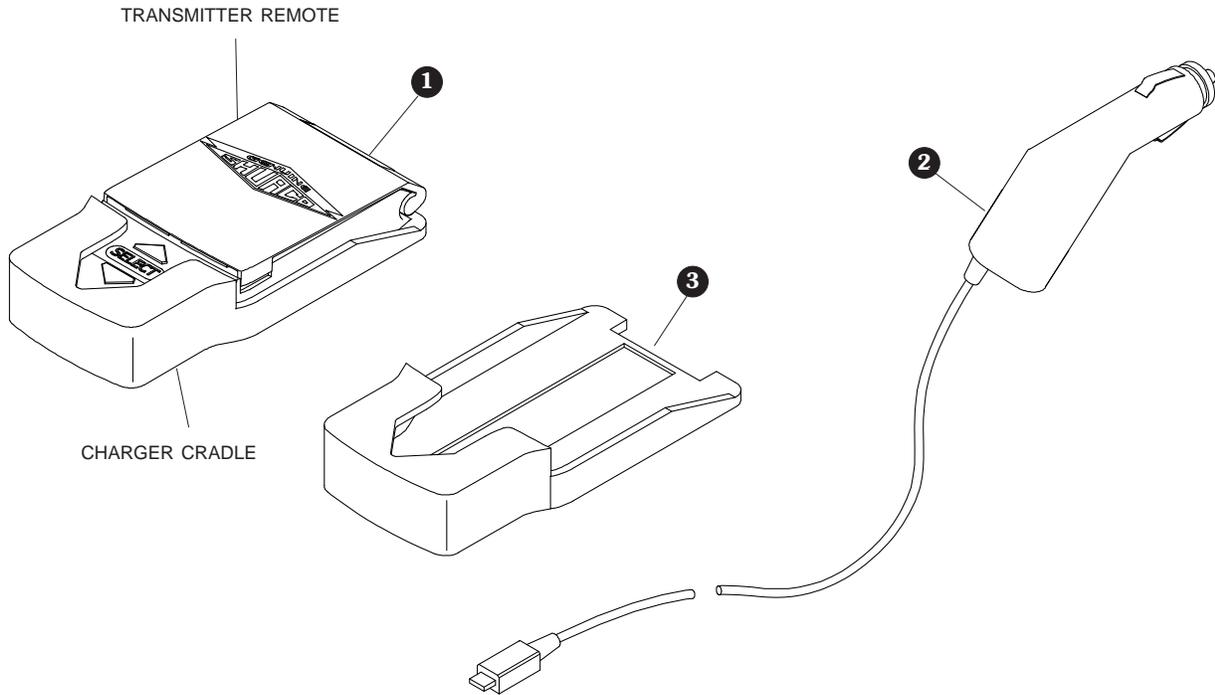


Wireless SMART2™ Remote (Version 9 Remote)

READ BEFORE INSTALLING

PO BOX 713 ■ 2309 SHUR-LOK STREET ■ YANKTON, SD 57078-0713
PHONE 1-800-4-SHUR-LOK (1-800-474-8756) ■ FAX 605-665-0501
www.shurco.com

SHOP ONLINE: www.shopshurco.com



Item	Part #	Description
	1122108	SMART2™ Transmitter Remote Kit (includes remote, cradle and charging cable)
1.	1122231	SMART2™ Replacement Transmitter Remote w/Cradle
2.	1704958	SMART2™ Transmitter Charger Cable
3.	1704957	SMART2™ Replacement Cradle



NOTICE

Do not power SMART2™ or any Shur-Co® wire-
less system with battery charger alone, as this will
likely cause system abnormalities and/or system
malfunction. Instead, use a 12-volt truck/automobile
battery to provide power to trailer.

Power-up/down:

Remote will power up when lid is opened. If lid is already open and remote is off, power up remote by pressing either of operational buttons.

Remote will power down when lid is closed or when lid is left open for three minutes after last button is pushed.

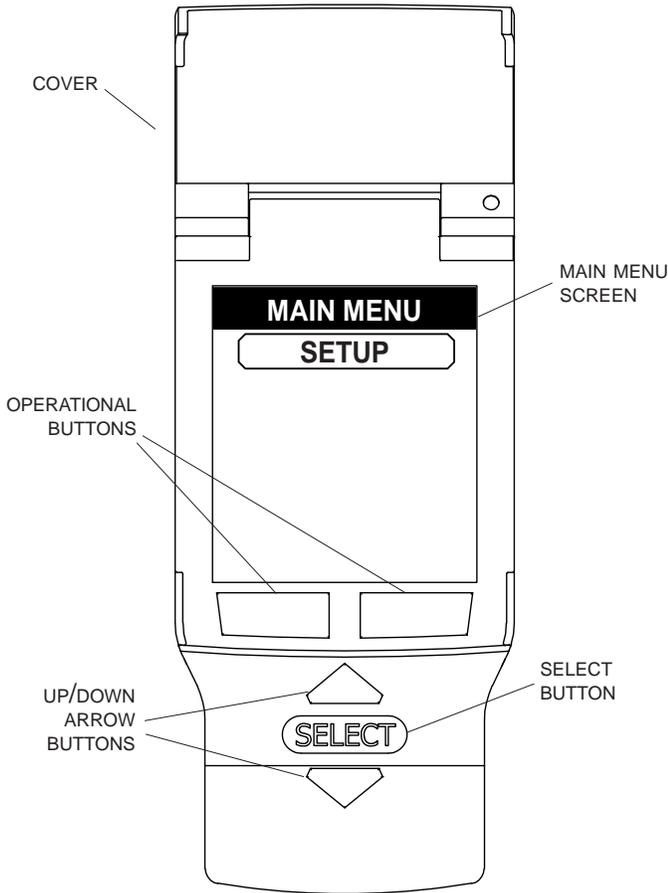


FIGURE 1

Standard operation:

When lid is opened, remote will default to Main Menu screen. Any paired (introduced) devices will appear on home screen if connected to power and within range (see Figure 2).

NOTE: If you ordered an upgrade kit, remote may not be paired with device yet. See section on pairing (introducing) devices.

NOTE: First time you use transmitter, devices on trailer will show up with default names like TARP00000093. Rename each device as you choose (example: TRLR4 TARP or FRNT HOPPER) by using SETUP menu on remote. See section on renaming devices.

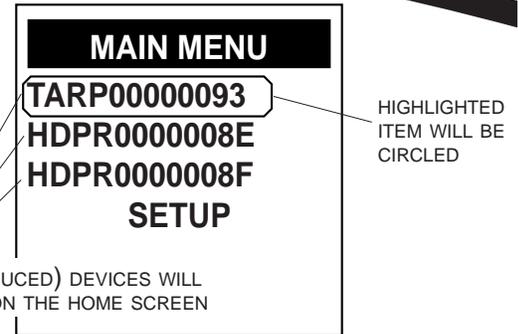


FIGURE 2

Use up/down arrow keys to highlight device you wish to operate. In Figure 2, tarp system is highlighted. Press Select to get to Manual Mode screen for this device.

NOTE: First time you use remote, it will default to Main Menu. If desired, you can choose a default device. This causes remote to skip Main Menu and jump directly to desired device for immediate operation. See section on setting a default device.

You can operate motorized devices, like tarps or trap doors, in two different modes. In Manual Mode, you hold Open or Close button down as long as you want motor to run. Motor stops when you release button. In Express mode, motor runs automatically until it reaches end of travel or until you press any remote button to stop it.

Standard operation (Manual Mode - motorized devices): Selected device can be operated from Manual Mode screen by pressing and holding Open or Close buttons.

While motorized device is operating, current position of device will be displayed on screen. Once motor reaches end of travel, screen will show tarp or trap is fully open or closed.

NOTE: Travel stops must be set before position indicator will be displayed. See section on setting travel stops.

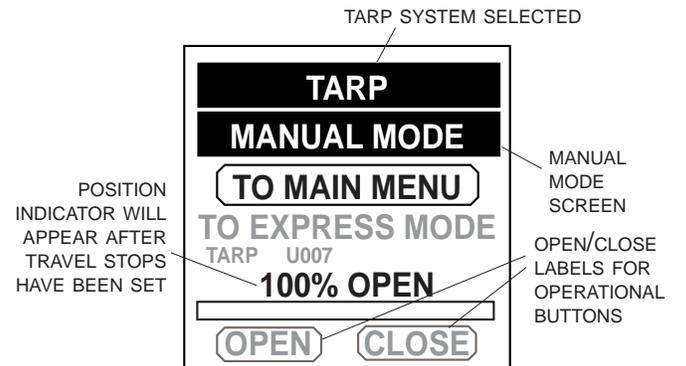


FIGURE 3

Standard operation (Express Mode - motorized devices):
To switch to *Express Mode*, use down arrow key to highlight TO EXPRESS MODE line and press SELECT.

HIGHLIGHT TO EXPRESS MODE & PRESS SELECT

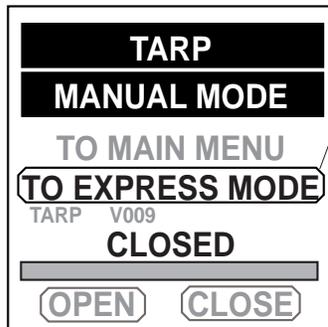


FIGURE 4

NOTE: You must first set travel stops before Express Mode can be used. Once travel stops are set, remote can also display whether system is fully open, closed or in between with a percentage-open indicator.

In *Express Mode*, simply press and release OPEN or CLOSE button. To stop operation before reaching end, just press any button or close lid.

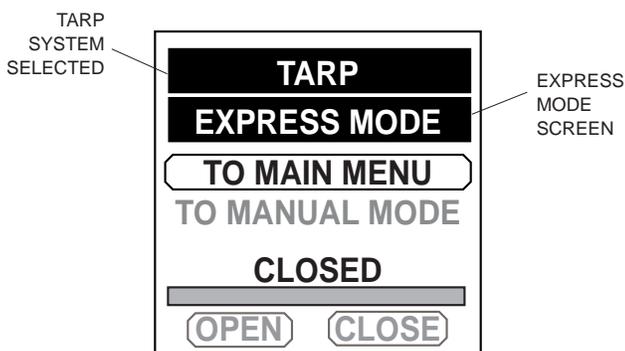


FIGURE 5

NOTE: If you always use Express Mode, you can select it as default operating mode. Default operating mode can be set individually for each system (tarp, front hopper, back hopper, etc.). See section on setting default operating mode.

While motorized device is operating, current position of device will be displayed on screen. Once motor reaches end of travel, screen will show tarp or trap is fully open or closed.

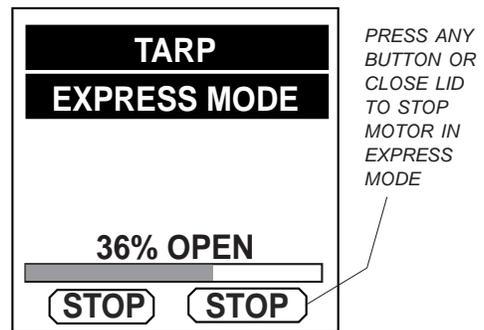


FIGURE 6

NOTE: If motor cannot travel to full open or closed position (due to a heaped load or other obstruction) motor will travel as far as it can and stop automatically. Display will then show system is partially open.

Standard operation (LiteALL™ module and latching devices):
For lights and other latching type devices, press operational button labeled ON/OFF to turn output on and off.

Display on remote will indicate whether output is currently on or off. Refer to device manual for additional information.

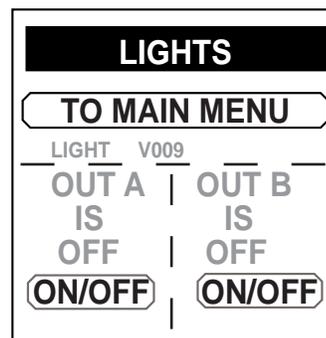


FIGURE 4A

Setting travel stops for motorized devices:

Smart2™ can learn and remember where you want each motorized device to stop. After installing system, installer can teach motor controller where travel stops are. Unless something changes on your trailer, you will only need to do this once.

NOTE: Travel stops can only be set on Shur-Co® motors that have an encoder cable, such as 4500 Series HD and Protrap® motors.

STEP 1: From main menu, arrow to **SETUP** and press **SELECT**.



FIGURE 7

STEP 2: Arrow to **EDIT DEVICE** and press **SELECT**.



FIGURE 8

STEP 3: Arrow to highlight desired device and press **SELECT**.

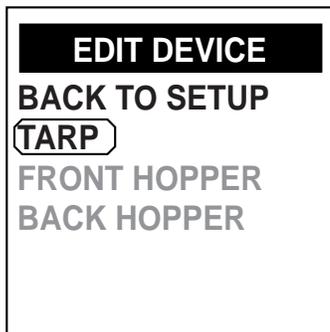


FIGURE 9

STEP 4: Arrow to **SET STOPS** and press **SELECT**.

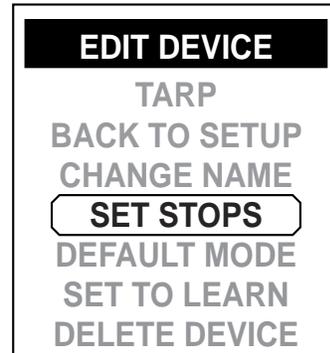


FIGURE 10

STEP 5: Select **ACCEPT** option.

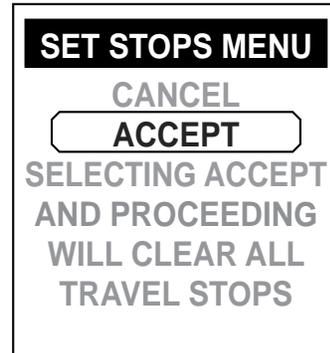


FIGURE 11

STEP 6: Use **CLOSE** button to move device (tarp, hopper door, etc.) to fully closed position. Hold **CLOSE** button until motor automatically turns off. Make sure there are no abnormal conditions that might stop device from fully closing, like a heaped load or ice buildup on trap door. Verify device (tarp, hopper door, etc.) is fully closed. Press **SELECT** to save this position.

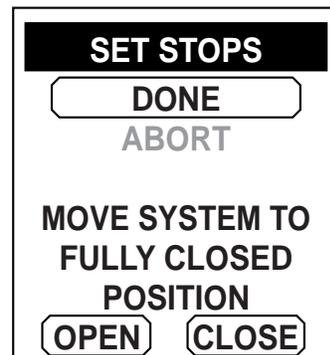


FIGURE 12

STEP 7: Setting travel stops for motorized devices - *continued*:

Use **OPEN** and **CLOSE** buttons to move device to desired open side location. Open side travel stop should be set so device will stop prior to making contact with any mechanical stop (tarp stops, hopper door stop, etc.). This will save on system wear and tear. Press **SELECT** to save this position.

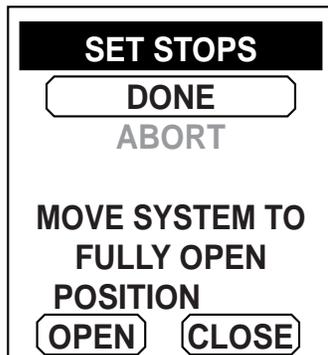


FIGURE 13

STEP 8: Press **SELECT** after confirmation screen is displayed.

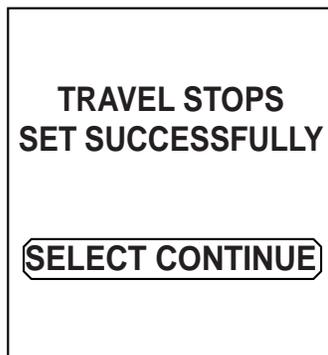


FIGURE 14

Pairing your devices (introducing remote to receivers):

Each remote and receiver has a unique security code to prevent unauthorized operation. Before a remote can operate a receiver module, they must be paired or introduced. This is typically done at factory before shipping. If remote must be introduced to a receiver, or if a second remote is being added to system, follow instructions below.

For motor control receivers (tarp, hopper, etc.) remove fasteners holding gray cover on receiver assembly. Pull gently on cover to prevent damage to wires connected to cover. Make sure power is supplied to receiver.

STEP 1: From *Main Menu* on remote, arrow to **SETUP** option and press **SELECT**.

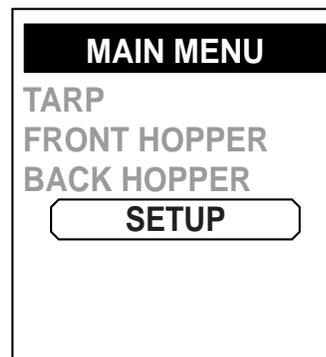


FIGURE 15

STEP 2: Arrow to **ADD DEVICE** and press **SELECT**.

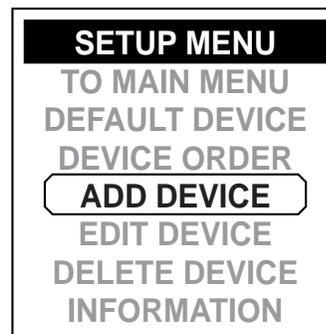


FIGURE 16

STEP 3: Remote will now be waiting for a receiver to enter pairing mode.

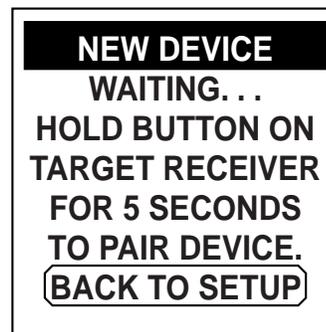


FIGURE 17

STEP 4A: For motor control receivers (tarp, hopper, etc.) there is a blue button inside gray cover you will need to reach. Press and hold blue button for approximately five seconds. Release after red LED starts flashing.

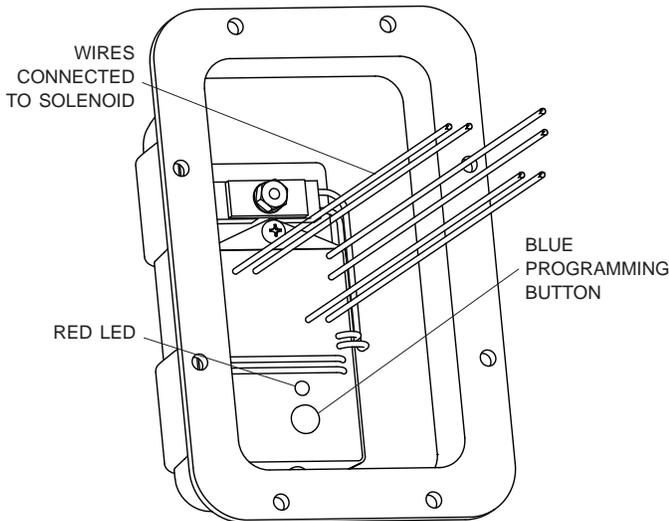


FIGURE 18

STEP 4B: For LiteALL™ control module, press and hold **OUTPUT A** button for approximately five seconds. Release button after green LEDs start flashing.

STEP 5: Remote will confirm it has detected receiver. Verify device type (tarp, hopper, etc.) is correct and press **SELECT**.

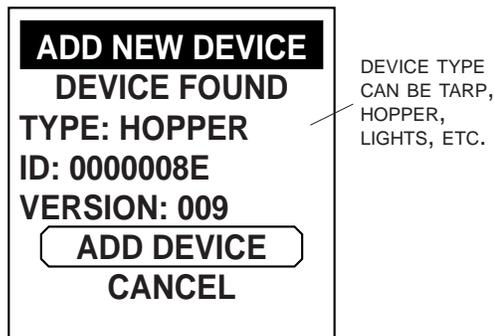


FIGURE 19

NOTICE
 If device type is incorrect, call Shur-Co® Help Line. You can damage your system if you operate wrong device-type receiver on your system.

STEP 6: You can rename device at this time. If you choose to, see section on renaming your device. This can be done later, if desired. If current name is acceptable, highlight **ACCEPT** and press **SELECT** to continue.



FIGURE 20

STEP 7: For motor control receivers (tarp, hopper, etc.) press **SELECT** to confirm and add device. You will see a message confirming information has been saved.



FIGURE 21

STEP 8: If you have additional Smart2™ devices on your trailer that need to be paired, repeat process for remaining devices. Remember to press blue button on each new receiver. When you are done, all new devices should show home screen as soon as you open lid.

STEP 9: Refasten gray cover onto receiver assembly.

Renaming your devices:

Name of each device displayed on remote can be changed by following this procedure.

NOTE: On LiteALL™ module, both outputs can be given a custom name also (see LiteALL™ Owner's Manual).

STEP 1: From *Main Menu*, arrow down to **SETUP** and press **SELECT**.



FIGURE 22

STEP 2: Arrow down to **EDIT DEVICE** and press **SELECT**.

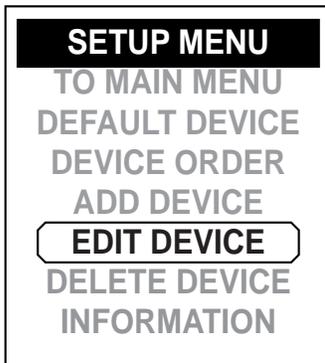


FIGURE 23

STEP 3: Use arrow buttons to highlight device you wish to rename, then press **SELECT**.



FIGURE 24

STEP 4: Highlight **CHANGE NAME** and press **SELECT**.

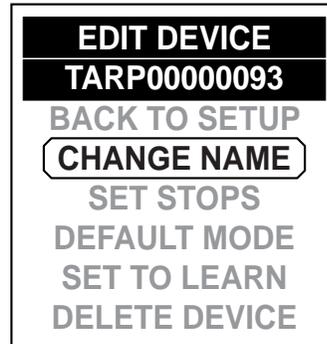
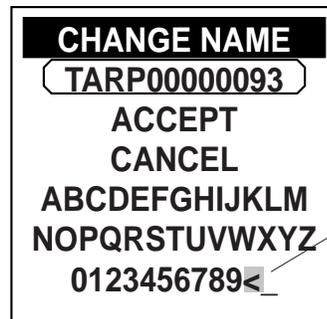


FIGURE 25

STEP 5: Arrow to highlight back arrow symbol and press **SELECT** to delete unwanted characters.



DELETE UNWANTED CHARACTERS WITH THIS SYMBOL

FIGURE 26

STEP 6: Arrow up or down to desired characters and enter by pressing **SELECT**. When done, arrow to **ACCEPT** and press **SELECT**.



FIGURE 27

STEP 7: Remote will confirm that name has been changed. Press **SELECT** button to finish.

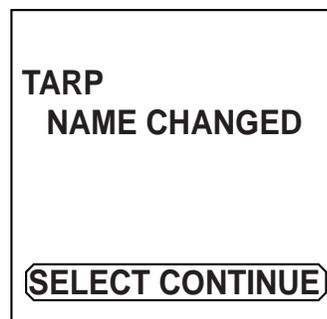


FIGURE 28

Setting a default device:

From the factory, the remote defaults to the *Main Menu* when the lid is opened. If desired, a default device can be selected so that the remote jumps directly to that device for immediate operation when the lid is opened.

NOTE: Default device will only be ready for immediate operation if receiver on trailer is connected to power and within range.

Setting a default device can save time by eliminating unnecessary button presses in the following situations:

- There is only one SMART2™ device being used with remote.
- A particular SMART2™ device is always used first when remote lid is opened.
- A particular SMART2™ device is used more frequently than other devices.

Follow instructions below to set a default device on SMART2™ remote.

STEP 1: From *Main Menu*, arrow down to highlight **SETUP** and press **SELECT**.

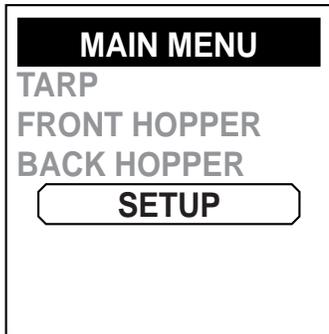


FIGURE 29

STEP 2: Highlight **DEFAULT DEVICE** and press **SELECT**.

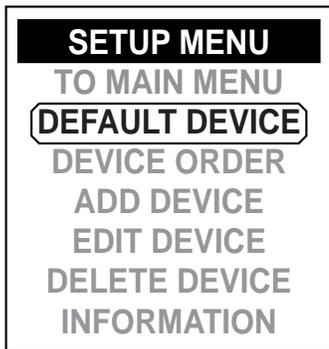


FIGURE 30

STEP 3: Highlight desired default device and press **SELECT**.

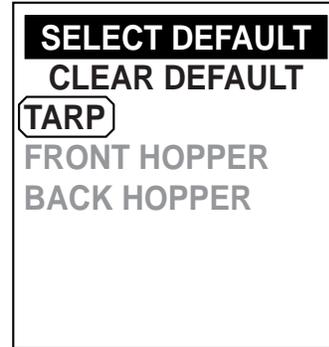


FIGURE 31

STEP 4: Remote will confirm that default device has been changed. Press **SELECT** to finish.

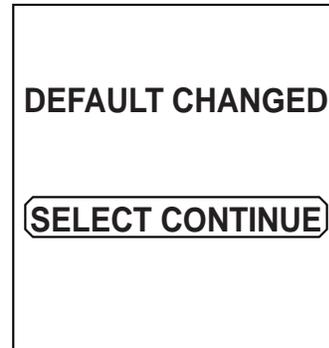


FIGURE 32

Setting default operating mode (for any motorized device):
 After pairing device to remote, remote will automatically default operating mode to *Manual Mode*. At any time, default operating mode can be set to either *Express Mode* or *Manual Mode*.

NOTE: See section on *Standard Operation* for details on *Express Mode* and *Manual Mode*.

NOTE: For *Express Mode* to function, travel stops must first be set. See section on *setting travel stops*.

Setting default operating mode to *Express Mode* can save time by eliminating unnecessary button presses in following situations:

- A particular device will typically be operated in *Express Mode*.
- The operator is comfortable running the device in *Express Mode*.

Follow instructions below to change default operating mode of a device using SMART2™ remote.

STEP 5: From main menu, arrow down to highlight **SETUP** and press **SELECT**.

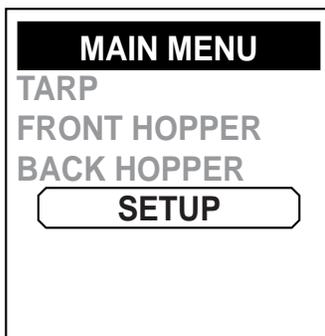


FIGURE 33

STEP 1: Highlight **EDIT DEVICE** and press **SELECT**.

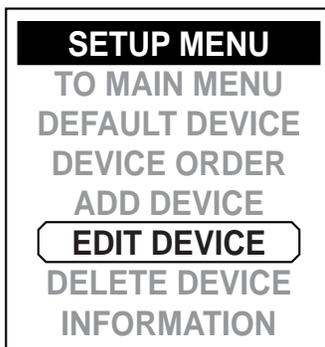


FIGURE 34

STEP 3: Select device for which you want to change default operating mode.

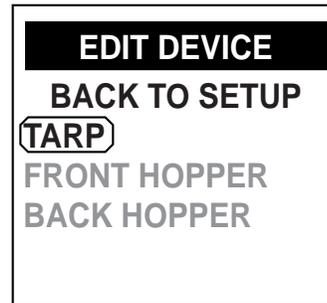


FIGURE 34

STEP 4: Highlight **DEFAULT MODE** and press **SELECT**.

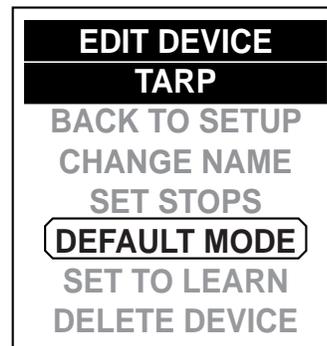


FIGURE 35

STEP 5: Highlight desired default operating mode, *Manual* or *Express*, then press **SELECT**.

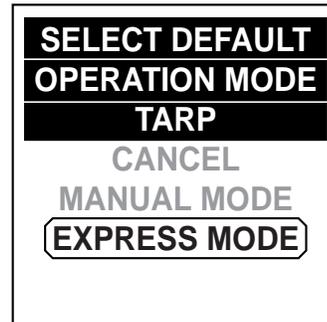


FIGURE 36

STEP 6: Remote will confirm that default has been changed. Press **SELECT** to finish.

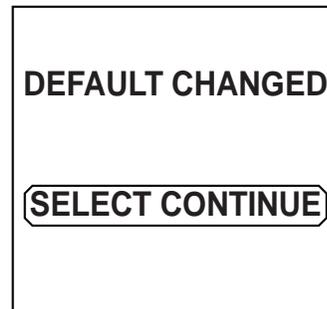


FIGURE 37

Changing device order on Main Menu:

If you have more than one device, it is possible to change order in which devices will be listed on *Main Menu* screen.

Changing device order can save time by eliminating unnecessary button presses in these situations:

- A particular SMART2™ device is used more frequently than other devices.
- A particular SMART2™ device is typically used first when remote lid is opened.

STEP 1: From *Main Menu*, select **SETUP**.

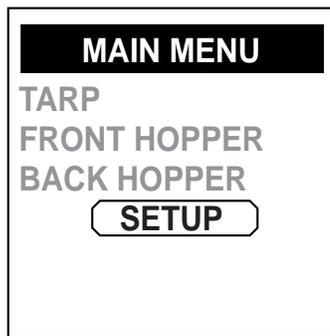


FIGURE 38

STEP 2: Arrow down to **DEVICE ORDER** and press **SELECT**.

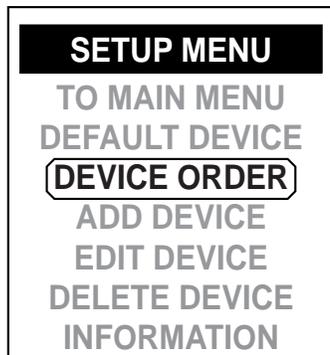


FIGURE 39

STEP 3: Arrow to device you want to move on list. Press **SELECT**. Selected device will be highlighted.

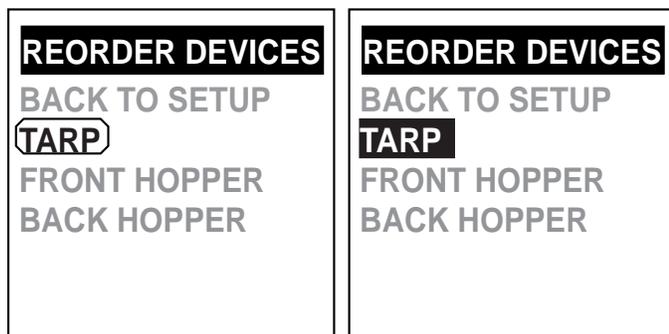


FIGURE 40

STEP 4: Use arrow buttons to move device up or down list. When you have highlighted device in desired place, press **SELECT** to set and save new order.

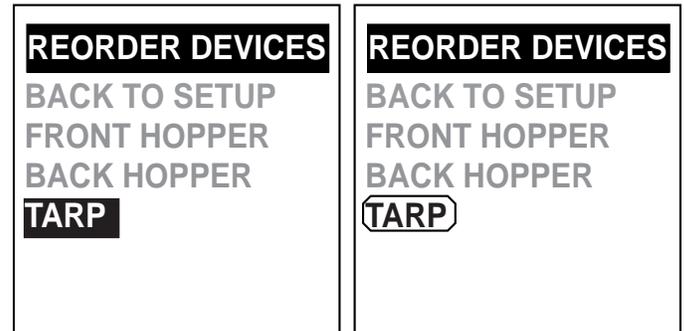


FIGURE 41

STEP 5: Repeat process if desired for any other devices. When finished, highlight **BACK TO SETUP** and press **SELECT**.

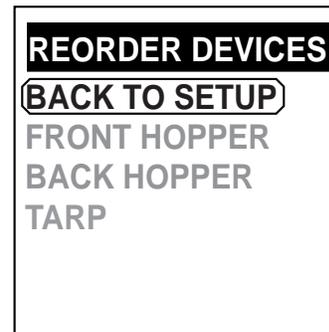


FIGURE 42

STEP 6: Close and then open remote lid. Your devices should be listed in updated order.

Deleting device:

Any paired device on a remote can be deleted, or erased, from remote's memory.

STEP 1: From *Main Menu*, highlight **SETUP** and press **SELECT**.

STEP 2: Arrow to **DELETE DEVICE** and press **SELECT**.

STEP 3: Arrow down to highlight device you want to delete and press **SELECT**.

STEP 4: Arrow down to highlight **YES** and press **SELECT** to confirm. You will see a message confirming information has been saved.

Our Advanced Troubleshooting Guide is available on our website: <http://www.shurco.com>, or call our Help Line: 1-866-748-7435.

PROBLEM:	TRY THIS:
<p>The SMART2™ remote is not working; the display is totally dead and is not displaying anything.</p>	<ol style="list-style-type: none"> 1. If the remote lid has been left open, the remote may have powered down. Wake the remote up by closing the lid and then re-opening it. Alternatively, you can wake the remote up by pressing an operational button (Open/Close). 2. The battery may be dead. Place the remote in the charging cradle and open the lid. Make sure the charging cable is properly connected to the power source and to the cradle. If the remote works in the cradle, allow the remote to charge. 3. The remote may be damaged. Call Shur-Co's Help Line.
<p>The SMART2™ remote is not working; the display is working, but the device I want to control is not listed on the Main Menu screen. OR I have set a default device, but the device screen is displaying Searching...</p>	<ol style="list-style-type: none"> 1. For the device you are trying to control, bring the remote near the receiver. Make sure the SMART2™ receiver is connected to power. One way to verify that the receiver has power is to remove the grey cover on the trailer and check if the red LED turns on when you press the blue programming button. 2. Close the lid on your remote for 15 seconds and re-open the lid, then try again. <i>NOTE: Waiting for 15 seconds with the lid closed will not always be necessary, but this allows the remote enough time to find the best possible communication channel.</i> 3. Re-introduce the remote to the receiver. 4. The remote or receiver may be damaged. Call Shur-Co's Help Line.
<p>I have a motorized system, and it is running backwards.</p>	<ol style="list-style-type: none"> 1. Is the device running backwards when controlled with the remote and the buttons on the receiver box? Remove the gray cover from the receiver assembly. Swap the green and yellow wires. 2. Is the device running backwards only with the buttons on the receiver box, and the remote is operating in the correct direction? Swap the positions of the push-button switches in the gray cover of the receiver assembly.
<p>I have a motorized system, and it will run in one direction but not the other.</p>	<ol style="list-style-type: none"> 1. Remove the gray cover from the receiver assembly. Make sure the green and yellow wires are connected to the solenoid and are making good contact. 2. Do the push buttons on the gray cover work in both directions? If so, the remote may be damaged. If not, the receiver or solenoid may be damaged. Call Shur-Co's Help Line.

PROBLEM:	TRY THIS:
<p>I have a motorized system and:</p> <p>The system will not run with the push-button switches on the gray receiver box; I can hear a click from the gray cover when I press the buttons on the box.</p> <p style="text-align: center;">OR</p> <p>The system is stuttering when I try to operate it.</p>	<ol style="list-style-type: none"> 1. There may be a bad battery or poor battery connection. Try hooking up power from a different 12-volt battery and re-test the system. 2. Is a battery charger or power supply being used to power the system? If so, hook the system/trailer to a truck battery and try again. Battery chargers alone will most likely cause the system to malfunction. 3. Remove the gray cover from the receiver assembly. Make sure the green and yellow wires are connected to the solenoid and are making good contact. 4. Check system wiring for corrosion, including any circuit breakers near the truck battery. If corrosion is present, you may get 12 volts to the receiver, but a motorized system may not function due to the resultant voltage drop in the wiring or circuit breaker when the open/close button is pressed. <p><i>NOTE: Bypass circuit breaker and test system to verify breaker is not corroded inside.</i></p> <ol style="list-style-type: none"> 5. Verify that you have 12 volts at the motor while an operational button is being held. If you have 12 volts and the motor is not running, there may be a problem with the motor. If the voltage at the motor drops below 8 volts, check the system wiring for corrosion. You may also have a bad truck battery. Start the truck and try again. Call Shur-Co's Help Line. 6. The receiver or solenoid may be damaged. Call Shur-Co's Help Line.
<p>I have a motorized system and it will not run with the push-button switches on the gray receiver box; I can't hear a click from the gray cover when I press the buttons on the box.</p>	<ol style="list-style-type: none"> 1. Remove the gray cover from the receiver assembly. Verify that 12V is being applied to the motor control module in the gray cover of the receiver box. <p><i>NOTE: Make sure voltmeter reads +12 volts and not -12 volts. Do this while red voltmeter lead is contacting red wire ring terminal from module and black voltmeter lead is contacting black wire ring terminal from module.</i></p> <ol style="list-style-type: none"> 2. The receiver may be damaged. Call Shur-Co's Help Line.
<p>I have a motorized system and it is displaying that it is still slightly open, but it is actually closed.</p>	<ol style="list-style-type: none"> 1. Make sure there is no obstruction to the system (heaped load, ice, etc.). <p><i>NOTE: For tarp systems, it is normal for remote to display that it is slightly open if there is a heaped load. Heaped loads will settle, so be sure to check for tarp tension after driving a short distance! After unloading trailer and closing tarp, remote should display that it is closed.</i></p> <ol style="list-style-type: none"> 2. Reprogram your travel stops. Make sure you do not program the stops while there are any obstructions in the way (heaped load, ice, etc.). If this problem occurs again, call Shur-Co's Help Line.

Our Advanced Troubleshooting Guide is available on our website: <http://www.shurco.com>, or call our Help Line: 1-866-748-7435.

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- **Genuine Replacement Parts**

- **Agriculture Products**
 - Value Series Shur-Lok®
 - Super Duty Shur-Lok®
 - Shur-Lok® Junior
 - Premium Belt 'n Ratchet
 - Cable-Lok™
 - Turning Point™ Bow System

- **SMARTrailer™ Accessories for Agriculture Products**
 - SMART2™ Remote
 - SMART1 +™ Remote
 - SMARTransmitter®
 - Shur-Link Pro™
 - 4500 Series HD Electric
 - ProTrap® Hopper Opener
 - LiteALL™ Work Lights
 - Cable-Lok™ Electric Upgrade
 - Electric Turning Point™ Bow System
 - Value Series Electric
 - Solar Power Pack

- **Flatbed Products**
 - ShurTite™ Retractable Tarps
 - Lumber Tarps
 - Steel Tarps
 - Coil Tarps
 - Cargo Control

- **Construction Products**
 - Super Duty Shur-Lok®
 - Premium Belt 'n Ratchet
 - Shur-Trak II™
 - Cover-Pro II®
 - UltraSteel Econo-Pull
 - UltraSteel Arm - Basic
 - UltraSteel Arm - Premium
 - Arm-Matic™
 - Turning Point™ Bow System
 - IronSide™ Side Arm System
 - DuraPull™ Tarp System

- **SMARTrailer™ Accessories for Construction Products**
 - SMARTransmitter®
 - 4500 Series HD Electric w/Gate Flex™
 - Shur-Trak II™ Electric Upgrade
 - Cover-Pro II® Electric Upgrade
 - Electric Turning Point™ Bow System
 - Solar Power Pack

- **Custom Products**
 - Fitted Truck Covers
 - Flat Utility Tarps
 - Bean Drill Covers
 - Hopper Extension Covers
 - Auger Boots
 - Shur-Lok® Tarp Cords

ENGINEERED TARPING SOLUTIONS

