RC401

BOAT LIFT REMOTE CONTROL INSTRUCTION MANUAL

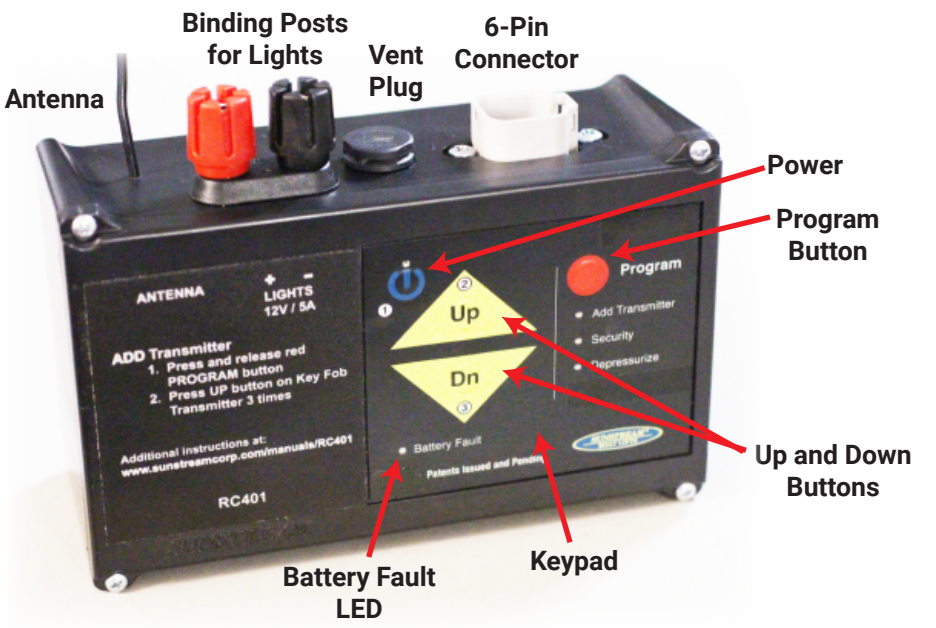

Photo is NOT to scale

LA-RCT4B Transmitter

WARNING: Only operate the boat lift when in clear sight of moving parts. Keep people away from moving parts.

CAUTION: Always leave your lift in the fully up and over-center position. For additional safety, secure your boat with dock line.

NOTICE: RC401 is only to be used on Sunstream SunLift™ and FloatLift™ models and is not to be used for other purposes. Opening enclosure voids warranty.

REMOTE CONTROL RC401 BASIC INSTRUCTIONS

Note: Exit 'PROGRAM MODE' to operate the lift.

Add Transmitter: Press and release the Red 'Program' button once so the 'Add Transmitter' light flashes, then press 'Up' on the transmitter three (3) times.

Clear Memory: Press and hold 'PROGRAM' button for 15 seconds.

Security Mode: This mode disables the keypad on the controller. To turn on the Security Mode, press 'PROGRAM' twice to scroll to 'Security'. Enter the security code and press 'PROGRAM' (combination of 1, 2 and 3). The 'Security' light will remain lit when the keypad is disabled. To enable the keypad, enter the correct security code and press 'PROGRAM'.

Depressurize: This feature depressurizes the hydraulics on SunLift™ and some FloatLift™ models for hose removal. Press 'PROGRAM' three (3) times to scroll to 'DEPRESSURIZE'. Press 'Up' then 'Dn' on the keypad or the transmitter key FOB.

For Manual and Accessory updates, see www.sunstreamcorp.com/manuals/RC401

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INSTALLATION INSTRUCTIONS (if not installed by factory)

The RC401 is compatible for lifts that use the previous RC306, RC308, RC400 and RC400B. However, the transmitters used with RC306 are not interchangeable with the others.

1. Connect the RC401 to the 6-pin connector of the hydraulic pump wire harness. LA-RCX12 wire extension is available.*
2. Attach the RC401 to the reservoir of the hydraulic pump with the included Velcro strips. (For metal Powerpack boxes, attach to inside of Powerpack box).
3. Position the antenna away from the electric motor motor of the hydraulic pump. (For metal Powerpack boxes, or if Powerpack is located in a metal enclosure, extension antenna LA-RCA1 is required).

* A 12 inch 6-pin extension wire harness is available (LA-RCX12) if existing pump wire harness is too short (for example: Dual Mini). If a small amount of extension is needed, the existing wire harness can be adjusted by rerouting the wires and trimming the existing wire shrink wrap.

RF TRANSMITTER (KEY FOB)

The RC401 only accepts a Sunstream LA-RCT4B (or LA-RCT4) transmitter, as well as the Sunstream Hands-Free Controller LA-HF4. The Key Fob transmitter is sealed. Previous Sunstream transmitters are not compatible. Transmitter control includes:

Channel 1: Up (momentary)
Channel 2: Down (momentary)
Channel 3: Lights (timed - 5 min)
Channel 4: Auxiliary circuit for custom applications

LA-RCT4B Transmitter

Add Transmitter: Press and release the Red ‘Program’ button on the RC401 box once. While the ‘Add Transmitter’ light is flickering, press the ‘UP’ button on the transmitter key fob three (3) times. The ‘Add Transmitter’ light will double flash when the transmitter is enrolled.

Add the Hands-Free Controller: Use the same process, but also repeat with the ‘Down’ button.

Note: Up to eight (8) transmitters can be enrolled. The 9th transmitter will erase the 1st transmitter.

Erase transmitters: Press program for approximately 15 seconds until the ‘Add Transmitter’ light double flashes.

If the **‘Battery Fault’** light is on, the battery voltage is below 12V. If the voltage drops below 10V, the **transmitters will stop working** by design to give indication of the problem. The lift can be operated using the controller keypad. Charging your Powerpack battery with an AC Charger usually corrects a battery fault. If not, replace your Powerpack battery.

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SECURITY MODE

The keypad can be locked to prevent tampering with the lift. The transmitter still functions in Security Mode. The factory setting of the security code is 1223, but this may be changed.

The keypad has only numbers 1, 2 and 3 which are selected by pressing 'Power', 'Up' or 'Down' respectively.

To Enable Security Mode:

- Press the 'Program' button twice (to 'Security'). Enter security code (factory setting 1223 or your custom code) and press 'Program'.
- Turn Security Mode 'Off' by entering the security code and pressing the 'Program' button.

To Customize your Security Code:

- Press 'Progam' twice (to 'Security'), then press and hold 'Program' for about five (5) seconds until the Program light flashes in a 2-flash pattern.
- Enter the old security code and press 'Program'. Light will flash in a 3-flash pattern.
- Enter the new security code and press 'Program'. Light will flash in a 4-flash pattern.
- Enter the new security code again and press 'Program'. New code is programmed. Record your new security code in a secure place. Your dealer can reset your code back to factory settings if needed.

DEPRESSURIZE

The Depressurize feature will depressurize the hydraulic lines (for all SunLift™/FloatLift™ models except FL6, FL10 and FL13 FloatLifts™). With no pressure in the lines, the quick disconnect can often be unscrewed by hand (after breaking free with wrench).

To Depressurize: Press the 'Program' button three (3) times to light up the 'Depresssurize' LED, then press 'Up' to depressurize one side, and 'Dn' to depressurize the other.

- The 'Up' button activates the up valve and depressurizes the cylinder extend (in SunLifts™). The 'Down' button activates the down valve and depressurizes the cylinder retract (in SunLifts™).
- In FL6, FL10 and FL13 FloatLifts™, pressure is maintained by the pilot-operated check valves and cannot be depressurized by this feature. Depressurize these systems by briefly runnning the lift in the opposite direction than was pressurized.

BATTERY MONITORING

The 'Battery Fault' indicator lights when the battery voltage is low. Charge the battery with an AC charger if the 'Battery Fault' light is on. Solar panels will not charge a dead battery.

LIGHTS PLUG

Optional underwater or Dock LED lights are available for SunLifts™ and FloatLifts™(LA-LP1), and are connected directly to the 'LIGHTS' plug on the side of the RC401. The lights are controlled with the 'LIGHT' button on the transmitter and are latched on for 5 minutes or may be toggled 'Off' by pressing the 'Light' button again. Do not exceed 5A (protected by the auto-resetting circuit).

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SPECIFICATIONS

Dimensions	6.3" x 4.0" x 2.5"	**Volts**	12 Volts
Enclosure	Sealed	**Max Amps**	12 Amps
Transmitter	Sealed	**Transmitter Battery**	CR2032 (3 Volts)
Transmitter Compatibility	LA-RCT4, LA-RCT4B LA-RCH4 (Hands-Free Controller)	**Lights Output**	5 Amps
RF Frequency	433.92 MHz	**Lights Voltage**	12 Volts

ACCESSORIES

LA-LP1	Light Package	LED ring for underwater or dock. Activated with transmitter.
LA-RCA1	RC401 antenna extension	Increases range if antenna needs to be moved to get clearer signal. Includes wire, butt connector, antenna mast, mount.
LA-RCH4	Hands-Free Controller	When docking or departing, keep your head up and hands on the wheel and throttle with this foot control for Up & Dn.
LA-RCX12	12 inch 6-pin extension wire harness	Extension wire harness to relocate RC (if needed).

TROUBLESHOOTING

Issue:	**Solution:**
No 'Power' light and lift does not operate with keypad or transmitter	- Check battery connection - Press Power Button on control box - Check fuse in hydraulic pump wire harness - Check battery voltage Voltage should be 12VDC or higher
No lift operation with transmitter, but works with keypad on control box	- If 'Battery Fault' on controller, charge battery - Enroll transmitter using 'Add Transmitter' instructions - Verify Power light is on (see No 'Power' light solutions above) - Replace battery in transmitter
Lift does not operate with keypad but does with transmitter	- If 'Security' light is on, keypad is locked with Security Mode. See Security Mode instructions
Battery drains in Solar mode	- Verify lift is not being overused for the number of solar panels connected - Verify sun has direct contact with solar panel for maximum number of hours - Clean solar panel
Transmitter has limited range	- Reposition antenna away from electric motor or any metal inside box - Try touching transmitter to your chin while operating (yes, it works!) - Add LA-RCA1 extension antenna

*** For all other issues call the factory or dealer.**

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NOTES:

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FCC Compliance and Advisory Statement. This hardware device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation. 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 or 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: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

Canadian SDOC Statement. This digital device does not exceed the Class B limits for radio noise emissions from digital apparatus specified in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of the Department of Communications.

This device complies with Industry Canada’s license-exempt RSSs. Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

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Déclaration FCC. Cet équipement a été testé et déclaré conforme à la section 15 du règlement de la FCC. Son fonctionnement est soumis aux conditions suivantes: 1) l'équipement concerné ne doit pas causer d'interférences dangereuses, et 2) il doit accepter toute interférence reçue, y compris les interférences risquant d'engendrer un fonctionnement indésirable. Cet équipement a été testé et déclaré conforme aux limitations prévues dans le cadre de la catégorie B des appareils numériques défini par la section 15 du règlement de la FCC. Ces limitations sont stipulées aux fins de garantir une protection raisonnable contre les interférences gênantes en installation résidentielle. Cet équipement génère, utilise et diffuse des ondes radio, et s'il n'est pas installé ni utilisé en conformité avec les instructions dont il fait l'objet, peut causer des interférences gênantes avec les communications radio. Cependant, nous ne pouvons vous garantir qu'une interférence ne se produira pas dans une installation particulière. Si cet équipement produit des interférences graves lors de réceptions radio ou télévisées qui peuvent être détectées en allumant et en éteignant l'équipement, vous êtes invités à les supprimer de plusieurs manières: 1) Réorienter ou déplacer l'antenne de réception; 2) Augmenter la distance séparant l'équipement et le récepteur 3) Connecter l'équipement à un circuit différent de celui auquel le récepteur est connecté; 4) Contacter votre revendeur ou un technicien radio/TV qualifié. Toutes modifications ou tous changements effectués sans l'accord exprès de la partie responsable de la conformité aux normes pourraient contraindre l'utilisateur à ne plus utiliser son équipement. Afin d'assurer la conformité avec les règlements FCC, les câbles d'interface blindés fournis avec le produit doivent être utilisés, ainsi que tout autres composants ou accessoires également spécifiés, lors de l'installation du produit.

Déclaration du Ministère des Communications Canadien. Cet appareil numérique est conforme aux limitations concernant l'émission d'interférences radio par des appareils numériques de catégorie B, telles que stipulées dans le cadre de la norme Appareils numériques ICES-003 édictée par le Ministère canadien de l'industrie.

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