

Remote Motor Control Installation Instructions and User Guide

Version 3.0

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REMOTE MOTOR CONTROL

The Remote Motor Control (RMC) is the ultimate addition to your System. It replaces the standard Rotary Drum Switch. With a touch of a finger, the entire operation can be conveniently handled by one person. The Remote Control adds a new dimension of convenience and versatility. Refer to the wiring diagrams to properly connect for the appropriate voltage.

IMPORTANT! The RMC is intended to replace any type of existing control switch. It is imperative that the RMC be the only switching device used, otherwise costly damage to the RMC, motor and/or switch is imminent.

System Components

Each RMC is comprised of:

1. Remote Motor Control Receiver/1 ea.
2. Two-button Transmitter/1 ea.

IMPORTANT! Installation Tips

1. In order for the RMC to function properly, it is critical that there is minimal line loss of voltage/ampereage between the power source and the receiver itself. Using an inadequate power line will cause the RMC to cycle on and off and will cause system damage. Generally, this problem is most common when using 120VAC and line distances of greater than 35'. In order to prevent this type of line loss, it is recommended that solid copper wire be used to bring power to the RMC. The greater the distance, the heavier the line required. Extension cords are not recommended. See chart for recommended wire sizing.
2. Do not place the RMC next to any power transformer or power lines that may cause interference.
3. Locate the unit within normal line of sight for your application.

Having the proper electrical service to your RMC is critical for satisfactory operation of the unit. As a MINIMUM, the following wire sizes for copper conductors MUST BE observed to avoid power losses and damage to the SRS motor and/or RMC:

Motor HP	100'	200'	300'	400'
	110v 220v	110v 220v	110v 220v	110v 220v
1/2	#10 #10	#8 #10	#6 #8	#4 #6
3/4, 1	#8 #8	#6 #8	#4 #6	#2 #4
1.5	#8	#8	#6	#4
2	#6	#6	#4	#3

1.0 REMOTE MOTOR CONTROL (RMC) RECEIVER

This is the heart of the system and contains the digital receiver and two contactors. It receives radio signals from the transmitter and supplies power to the motor. The RMC can handle either 120 VAC or 230 VAC. Proper wiring will determine which voltage the unit will handle.

The contents of the RMC are virtually maintenance free. To assure years of reliability, the weatherproof box is sealed at the factory to protect the electrical components from corrosion and water damage. The box may be left outdoors all year round without fear of damage from the elements. There should not be a need for you to open it.

IMPORTANT: HIGH VOLTAGE ELECTRICAL POWER IS PRESENT IN THIS BOX. FAILURE TO HEED THIS WARNING MAY RESULT IN BODILY INJURY OR DEATH.

ONLY FACTORY AUTHORIZED PERSONNEL ARE AUTHORIZED TO WORK ON ITS' CONTENTS. SHOULD THE SPECIAL SEAL ON THE OUTSIDE OF THE ENCLOSURE BE BROKEN, ANY WARRANTY WILL BE NULL AND VOID.

Normal Operation

The RMC can be operated by either the hand-held transmitter or by the receiver key-switch. The unit comes a key and one spare.

During operation, you may notice a soft "clunk" may be heard from within the RMC each time initial motor operation is called for. This sound is normal and will be heard when either directional control button is depressed. The sound is coming from the contactor movement.

It is recommended that power to the RMC be turned OFF anytime your System is not going to be used. This will completely prevent anyone from inadvertently operating the motor.

NEVER OPERATE YOUR SYSTEM WITHOUT MAKING ABSOLUTELY SURE THAT ALL MOVING PARTS ARE FREE OF PERSONS AND/OR FOREIGN OBJECTS. FAILURE TO DO SO CAN RESULT IN DAMAGE TO YOUR SYSTEM, BODILY INJURY OR DEATH.

2.0 TRANSMITTER

The compact digital transmitter is a multi-channel type with two separate buttons for directional control. To operate the system, simply press the button with the blue dot to move the dolly IN the water or press the plain button to move the dolly OUT of the water. The buttons are a dead man type and must be held down as long as dolly travel is desired. Once a button is released, the motor and dolly will stop. A built-in safety feature will not allow the motor to run if both buttons are depressed simultaneously. Range is limited to about 250'.

One of 512 discrete codes is set up during manufacture to assure that no two units operate on the same code. Power for the transmitter comes from a common 9 volt radio battery. It is recommended that the battery be replaced every 12 months or when transmission range decreases. Alkaline batteries will give the longest service.

It is a good idea to have a spare transmitter on hand just in case the original is lost or accidentally dropped in the water. In the absence of a hand-held transmitter, the key switch can still be used.

FOR FUTURE REFERENCE, WRITE DOWN YOUR THREE-DIGIT CODE HERE:

288- _____

3.0 TROUBLE SHOOTING GUIDE

Problem #1: The motor does not run when either transmitter button is pushed.

- The key-switch is turned "OFF".
- Check transmitter battery and replace if necessary.
- Check the power source by plugging in another electrical device into the receptacle used by the motor. If test device operates, the voltage should be ok.
- Motor may be overloaded. Wait 5 to 10 minutes and try again.

Problem #2: The motor and RCU rapidly cycle on and off when either transmitter button is pushed. It seems to be worse when the system is under load as when powering "IN" to shore.

- Power to the RMC is inadequate due to too light of power cord. Replace extension cord or power line with #8, #6 or #4 depending on the voltage and distance covered.

Problem #3: The transmitter does not seem to have enough operating range.

- Check the battery and replace it if necessary.
- Be sure that nothing is obstructing the line of sight to the RMC.
- Adjust the range of the transmitter:

Step 1. Operate your transmitter to determine the current maximum range.

Step 2. Step back from the RMC an additional 10 feet and fine tune the transmitter.

Step 3. Remove the bottom cover from the transmitter and gently lift off the upper cover that surrounds the two pushbuttons.

Step 4. Located at the top center of the circuit board is a screw-like frequency tuner. It may be colored blue. To maximize transmission range, turn the tuner SLIGHTLY to the right with a screwdriver. If increased range is not obtained, then SLOWLY turn the tuner to the left.

Step 5. Continue increasing distance from the RMC until maximum range is reached. Replace both covers.

Problem #4: My new replacement transmitter does not operate my system.

- Check the battery and replace it if necessary.
- The dip switch on the new transmitter may not be set properly. To do so:
 1. Determine the correct code for your receiver. This can be determined from your old transmitter or by looking on the outside bottom of the receiver box. On the receiver, you will see a number such as 288-???. The last three digits are the three number code that needs to be set in the transmitter. IMPORTANT: THE EXACT SAME CODE MUST BE SET ON BOTH THE TRANSMITTER AND RECEIVER. IF JUST ONE SWITCH IS MISMATCHED, THE CONTROLS WILL NOT FUNCTION.

2. Remove the lower cover from the front of the transmitter by sliding it away from the two buttons.
3. Directly above the battery is a blue rectangular switch with eight white "dip switches". They are numbered 1 thru 8. Each switch can be slid up or down with a small screwdriver or bent paperclip.
4. Set the code to match the receiver.
Example: 288-246. The first three numbers are the frequency and the next three are the settings of your dip switches. To set this code, be sure that the numbers 1, 3, 5, 7 and 9 are slid up (+) and that the switches numbered 2, 4 and 6 are slid down (-). Obviously, your code may be different and must be set accordingly.
5. Slide the cover back on and test the transmitter.

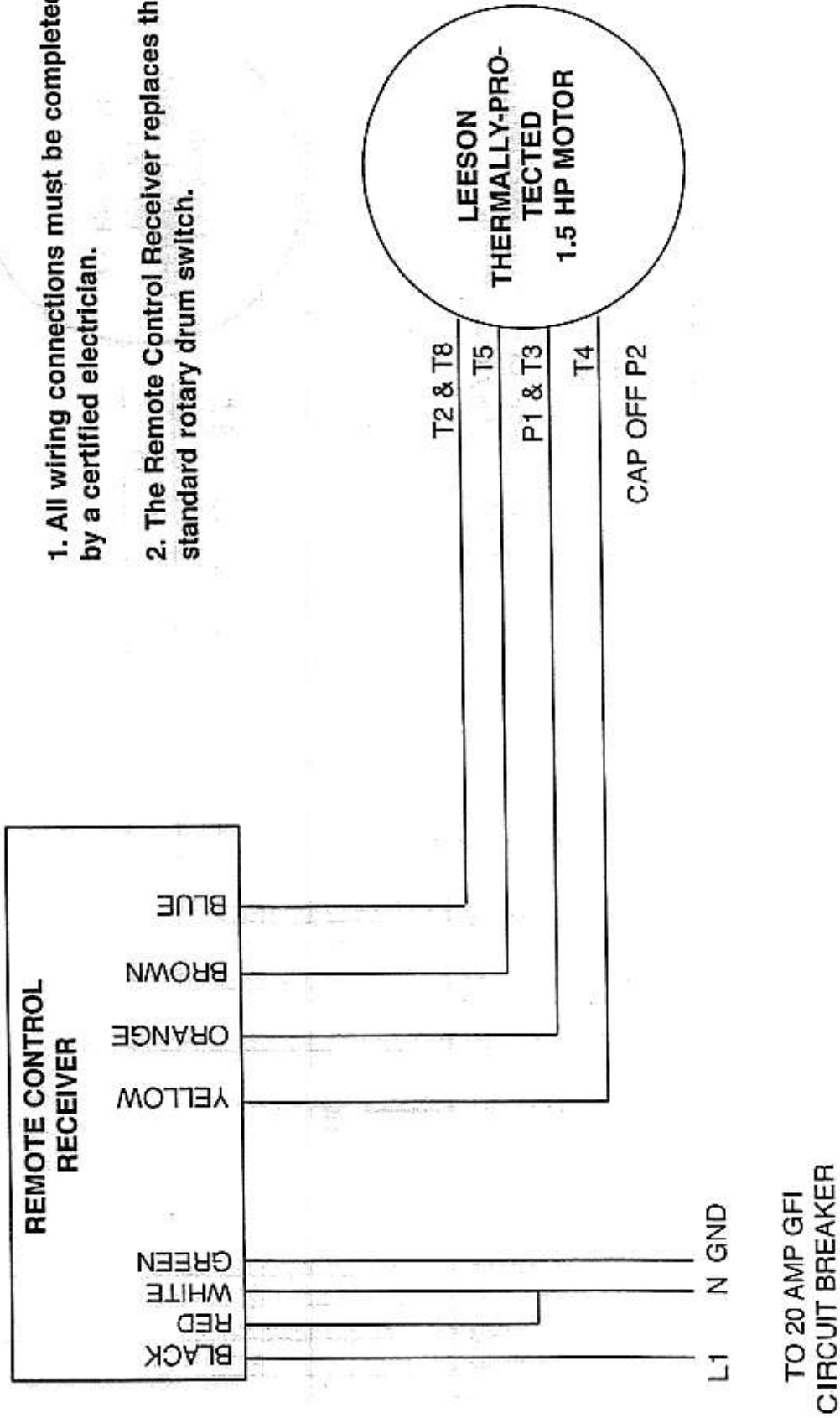
4.0 REMOTE MOTOR CONTROL LIMITED WARRANTY

This product is warranted to the consumer against defects in material and workmanship for 90 days from the date of purchase. This warranty applies to first retail buyers of new devices. Warrantor will repair, or at its' option, replace, any device it finds that requires service under this warranty, and will return the repaired or replaced device to the consumer at the warrantor's cost. For warranty service and shipping instructions, contact the warrantor at the address below. Devices must be sent to warrantor for service at owner's expense. The remedies provided by this warranty are exclusive. Implied warranties under state law are limited to the one year period of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Warrantor will not be liable for consequential or incidental or inconsequential damages, so the above limitation of exclusion may not apply to you. In order to be protected by this warranty, save your proof of purchase and send a copy with the equipment should repair be required. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Wiring Diagram for Remote Control 120 VAC

IMPORTANT!

1. All wiring connections must be completed by a certified electrician.
2. The Remote Control Receiver replaces the standard rotary drum switch.



Wiring Diagram for Remote Control 220 VAC

IMPORTANT!

1. All wiring connections must be completed by a certified electrician.
2. The Remote Control Receiver replaces the standard rotary drum switch.

