

Long Range Systems, Inc.

Dual Wireless Trap Release

Installation and Operating Instructions

Complete Dual System includes:

- One 3-Button Programmable Transmitter
- Two Programmable Receivers w/ 10' Cable
 - 7" Flexible Antenna

(Single System includes one receiver)

MADE IN THE USA

Changing Receiver Codes

1. Disconnect power from receiver.
2. Remove all 4 screws on top of the receiver. You should see a "DIP SWITCH" as shown below.



Switches 1,2,3 - Trap Number
Switches 4,5- Field ID Number (Each field can have up to eight traps)

3. Using a pencil or small screwdriver, set the Trap Number (Switch #1,2,3) so that it corresponds to one of the transmitter's 3-position DIP SWITCHES. ** Remember the transmitter will have to be set the same in order to release trap.

TRAP NUMBER	DIP # 1	DIP # 2	DIP # 3
1	OFF	OFF	OFF
2	ON	OFF	OFF
3	OFF	ON	OFF
4	ON	ON	OFF
5	OFF	OFF	ON
6	ON	OFF	ON
7	OFF	ON	ON
8	ON	ON	ON

4. If you are not using multiple fields, skip to step 6.
5. Using the same pencil or small screwdriver, set the Field ID number (Switch #4,5) so that it corresponds to the 2-position DIP SWITCH #1 & 2 in the transmitter shown below. Remember the transmitter will have to be set to the same number in order to fire trap.

Field ID Number	DIP # 4 (TRANSMITTER DIP #1)	DIP # 5 (TRANSMITTER DIP # 2)
1	OFF	OFF
2	ON	OFF
3	OFF	ON
4	ON	ON

6. Replace receiver cover and tighten screws.

WARNING!!!

IN CASE OF ACCIDENTAL MISFIRE, ALWAYS DISCONNECT REMOTE CONTROL BEFORE WORKING ON TRAP.

TRAP CONFIGURATIONS

The Long Range receivers have 4 wires coming from them; Red, Black, Yellow and Green. Red and Black are for power to the receiver and must be connected to +12V AC or DC (Do not exceed 15V!). The yellow and Green wires simply make a connection when you press the transmitter button, just like your pull cord does when you press the button. With that in mind, we normally say Red and Black should connect to your 12V battery and Yellow and Green should go to your Pull Cord Connector. That's the simple method, however, all machines seem to be wired differently and therefore care should be taken when connecting to them.

For all traps, the RED and BLACK wires should connect to 12VDC or 12VAC. Do not exceed 15V! In the case of 24V machines (2 car batteries) you must split the power and use only one battery to power the receiver. If you do not own a battery operated trap, you can purchase a 12VAC adapter from Radio Shack (Radio Shack Catalog Number 273-1610). You will need to cut off the connector on the 12V adapter and connect wires from adapter to Black and Red wires on receiver (+ or - does not matter since it is 12V AC). If you use +12V DC, then connect red to + and black to -.

For all 24VAC and 110VAC machines, you will need to purchase a 12VAC adapter from Radio Shack (see above for part number). The wires from the adapter should connect to RED and BLACK on the receiver. YELLOW and GREEN simply make a connection when the transmitter button is pressed (just like your pull cord).

Below are some traps and the proper connections for the Long Range Systems receivers.

Long Range Systems receiver wires

Machine	Black	Red	Yellow	Green
12V Laporte	Release Pin 2	Release Pin 1	Release Pin 1	Release Pin 3
Winchester by LaPorte	12VAC Adapter		Pin #1	Pin #3
Western Trap	12VAC Adapter		either pull cord wire	either pull cord wire
Western Skeet	12 VAC Adapter		Red Release wire	White release wire
Parker of England	-12V (GND)	+12V	+12V	Release (middle pin)
Whitesides				
Pat Trap				
Parker Boss				
Beomat				
Outers (auto-Flightmaster)	Center (GND)		Narrow Blade(+12)	Narrow Blade(+12) Wide Blade (Release)

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 IF YOU ARE UNSURE ABOUT CONNECTIONS, PLEASE CONTACT YOUR LOCAL DEALER OR LONG RANGE SYSTEMS AT 800-987-6749! WARRANTY IS VOID IF IMPROPERLY CONNECTED.

WARNING!!!

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RECEIVER DIP SWITCH SETTINGS

FIELD	TRAP	DIP1	DIP2	DIP3	DIP4	DIP5
1	1	OFF	OFF	OFF	OFF	OFF
1	2	ON	OFF	OFF	OFF	OFF
1	3	OFF	ON	OFF	OFF	OFF
1	4	ON	ON	OFF	OFF	OFF
1	5	OFF	OFF	ON	OFF	OFF
1	6	ON	OFF	ON	OFF	OFF
1	7	OFF	ON	ON	OFF	OFF
1	8	ON	ON	ON	OFF	OFF
2	1	OFF	OFF	OFF	ON	OFF
2	2	ON	OFF	OFF	ON	OFF
2	3	OFF	ON	OFF	ON	OFF
2	4	ON	ON	OFF	ON	OFF
2	5	OFF	OFF	ON	ON	OFF
2	6	ON	OFF	ON	ON	OFF
2	7	OFF	ON	ON	ON	OFF
2	8	ON	ON	ON	ON	OFF
3	1	OFF	OFF	OFF	OFF	ON
3	2	ON	OFF	OFF	OFF	ON
3	3	OFF	ON	OFF	OFF	ON
3	4	ON	ON	OFF	OFF	ON
3	5	OFF	OFF	ON	OFF	ON
3	6	ON	OFF	ON	OFF	ON
3	7	OFF	ON	ON	OFF	ON
3	8	ON	ON	ON	OFF	ON
4	1	OFF	OFF	OFF	ON	ON
4	2	ON	OFF	OFF	ON	ON
4	3	OFF	ON	OFF	ON	ON
4	4	ON	ON	OFF	ON	ON
4	5	OFF	OFF	ON	ON	ON
4	6	ON	OFF	ON	ON	ON
4	7	OFF	ON	ON	ON	ON
4	8	ON	ON	ON	ON	ON

TRANSMITTER DIP SWITCH SETTINGS (3-BUTTON TRANSMITTERS)

FIELD	TRAP	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
1	1/2	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
1	3/4	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
1	5/6	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
1	7/8	OFF	ON	ON	ON	ON	ON	OFF	OFF
2	1/2	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
2	3/4	OFF	ON	OFF	ON	ON	OFF	ON	OFF
2	5/6	OFF	OFF	ON	ON	OFF	ON	ON	OFF
2	7/8	OFF	ON	ON	ON	ON	ON	ON	OFF
3	1/2	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
3	3/4	OFF	ON	OFF	ON	ON	OFF	OFF	ON
3	5/6	OFF	OFF	ON	ON	OFF	ON	OFF	ON
3	7/8	OFF	ON	ON	ON	ON	ON	OFF	ON
4	1/2	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
4	3/4	OFF	ON	OFF	ON	ON	OFF	ON	ON
4	5/6	OFF	OFF	ON	ON	OFF	ON	ON	ON
4	7/8	OFF	ON	ON	ON	ON	ON	ON	ON

SINGLE BUTTON TRANSMITTER SETTINGS

FIELD	TRAP	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
1	1	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
1	2	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
1	3	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
1	4	ON	ON	OFF	ON	ON	OFF	OFF	OFF
1	5	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
1	6	ON	OFF	ON	ON	OFF	ON	OFF	OFF
1	7	ON	ON	OFF	ON	ON	OFF	OFF	OFF
1	8	ON	ON	ON	ON	ON	OFF	OFF	OFF

CALL FOR SETTINGS NOT PRINTED

Troubleshooting

If your wireless release doesn't fire the trap properly, here are some suggestions:

If the receiver fires only at close range:

1. Be sure transmitter has a 9V battery and antenna installed. Red light in should flash on top of the transmitter. Lights should stay lit only when any button is pressed.
2. Be sure receiver connector is making the proper connections. Sometimes you may try disconnecting and reconnecting your receiver.
3. If the receiver is too close to the transmitter, you may be overpowering it. Try lowering the receiver antenna.
4. Is receiver being blocked by a large metal object? If so, you'll need to move it.
5. **Never** grab antenna when transmitting. This will cause a weak signal.

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NOTE

OPERATING RANGE DOES VARY RECEIVER TO RECEIVER BUT YOU SHOULD SEE AT LEAST 150 YARDS
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If the receiver does not fire at all:

1. The codes in the receiver and transmitter may not match. Use the instructions for changing codes enclosed and be sure DIP SWITCH #1,2,3 in receiver matches either one of the transmitter's 3-position DIP SWITCHES and receiver DIP #4,5 match the transmitter's smaller DIP SWITCH #1,2.

WARNING!!!

IN CASE OF ACCIDENTAL MISFIRE, ALWAYS DISCONNECT REMOTE CONTROL BEFORE WORKING ON TRAP.

Changing Transmitter Codes:

1. Remove antenna and battery and then unscrew the four (4) small Phillips head screws on back of transmitter.
 2. Now remove the front cover by unscrewing the silver buttons on the top of the transmitter and pull the cover off.
 3. You should now see:
 - (1) 8-position "DIP SWITCH" which sets the field number ID if you are using multiple fields.
 4. Using a small screwdriver or pencil, set #1,2,3 to correspond to the TRAP1 receiver's DIP SWITCH #1,2,3 (see CHANGING RECEIVER CODES section). Your transmitter DIP SWITCH #4,5,6 should match TRAP2 receiver DIP SWITCH #1,2,3.
 5. Set the Transmitter DIP SWITCH #7 & 8 so that it corresponds to each receiver's DIP SWITCHES #4 & 5, respectively (see CHANGING RECEIVER CODES section).
- **** NOTE: If you have a single button Transmitter, be sure DIP switch #1,2,3 match DIP 4,5,6 respectively. For example if #1 is off, then #4 should be off, etc.**
6. Replace front cover making sure battery leads are not crimped by cover. Tighten 4 screws on transmitter back.
 7. Now reconnect battery and turn transmitter safety switch ON. You should now be operational. Any questions please call (800) 987-6749.

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About your system:

With your Wireless Release System you can fire any two traps at a given time. Codes are selectable to avoid interference with other shooters. By changing codes internally, this system can operate a total of 32 traps. As an example, you may be shooting traps 1&2 on one field and someone else can be shooting traps 1&2 on a different field without any interference.

Installation Instructions:

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YOUR SYSTEM COMES CONFIGURED FOR ALL TRAPS. IF YOU ARE USING ANY OTHER TRAP, PLEASE CONTACT YOUR NEAREST DEALER AND ASK FOR PROPER HOOKUP.
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1. Remove your receiver from the case and place in a convenient location near your trap machine. Try to avoid placing it where any metal objects may lie between it and your shooting location.
2. Rotate receiver antenna upward and extend antenna to its full length of about 32". If your receiver is within 100 feet of the transmitter, you probably will not need to extend your receiver antenna.
3. Connect +12V (AC or DC) to your receiver. If you only have access to 110VAC you can either purchase the Long Range Systems 12VAC adapter or go to Radio Shack and purchase catalog number 273-1610. Red and Black wires should connect to the output wires of the adapter. For +12VDC adapters or batteries, connect Red to +12V and Black to Ground (-12VDC). The Yellow and Green wires provide a contact when fired. This is exactly the same as your current wired release.
4. PLEASE BE AWARE, YOUR RECEIVER IS NOW OPERATIVE! DO NOT STAND IN FRONT OF TRAP IN CASE OF ACCIDENTAL MISFIRE!
5. If you own a second trap, repeat steps 1-4 for the second receiver.

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RECEIVERS ARE NOT WATER PROOF!! IF YOU PLAN ON LEAVING THEM OUTSIDE, PRECAUTIONS MUST BE TAKEN. AFTER YOU CONFIRM OPERATION, YOU SHOULD REMOVE LID AND APPLY A BEAD OF SILICON AROUND THE RIM TO SEAL CASE. YOU SHOULD ALSO APPLY SILICON AROUND HOLE OF ANTENNA.

FOR ADDED PROTECTION AGAINST WATER DAMAGE, TURN THE RECEIVER CASE UPSIDE DOWN.

WARRANTY IS VOID IF WATER DAMAGE IS PRESENT.

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6. Attach flexible antenna by aligning grooves in the antenna connector with pins around barrel of transmitter. Push and twist antenna onto connector until antenna locks into place.
 7. Open battery compartment in rear of case and put in a fresh 9V battery. Now turn your transmitter ON. The light by the toggle switch should be flashing. This means the transmitter is ready to fire.
 8. Test each button on transmitter as follows:
 - TRAP 1 fires one receiver
 - TRAP 2 fires the other receiver
 - DOUBLES fires both receivers together.