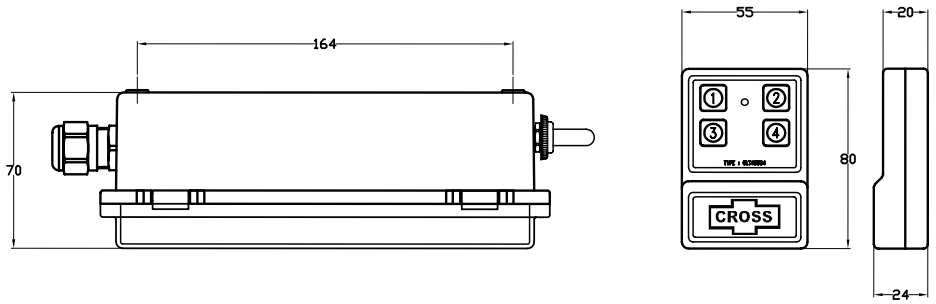
CROSS HYDRAULICS

REM4

Setup and Programming Instructions
For the 4 Channel Receiver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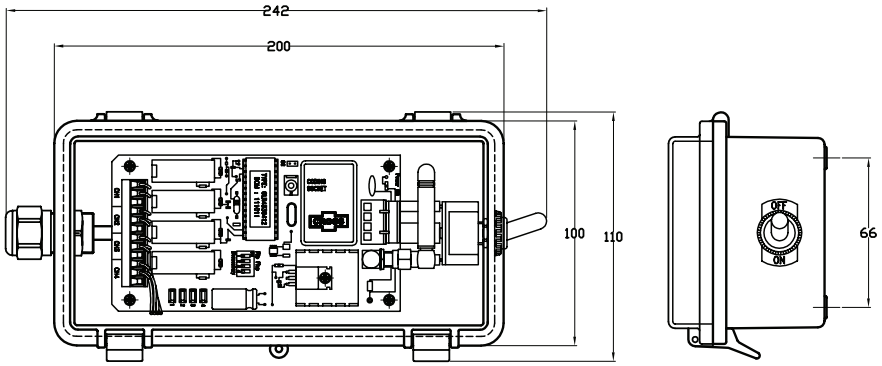
24
CROSS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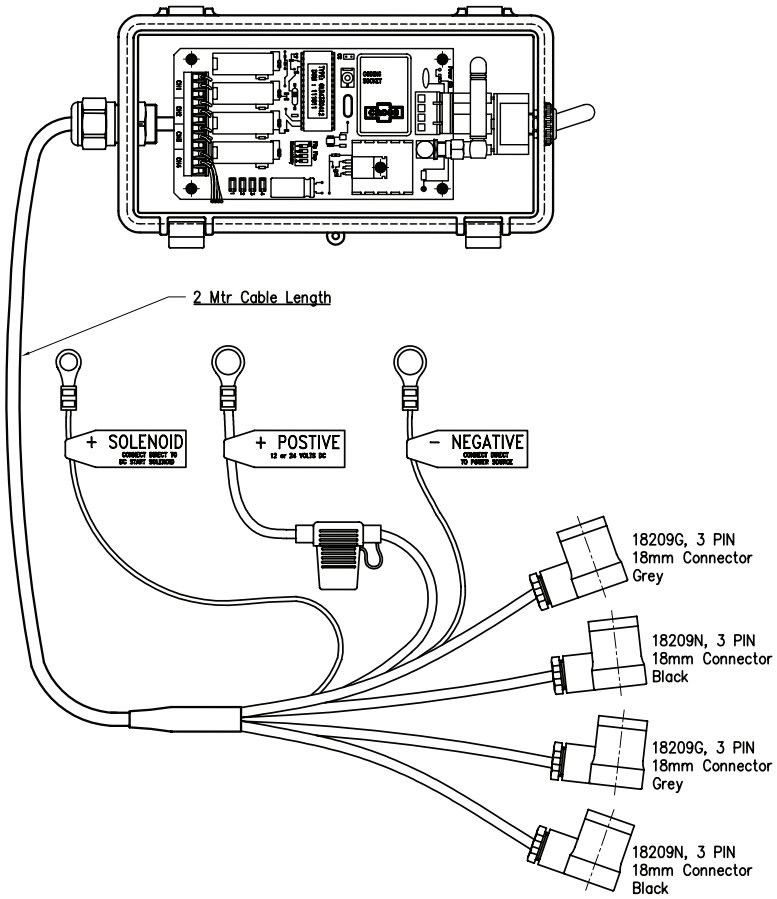

2 Mtr Cable Length
+ SOLENOID
+ POSTIVE
– NEGATIVE
18209G, 3 PIN
18mm Connector
Grey
18209N, 3 PIN
18mm Connector
Black
18209G, 3 PIN
18mm Connector
Grey
18209N, 3 PIN
18mm Connector
Black

Features

- Wide Supply Voltage, 11.0 to 28.0 Volts AC/DC
- Three or four relay outputs. All outputs can be operated simultaneously
- Low current consumption
- Over 4 billion code combinations
- Crystal controlled for high reliability
- Can store unlimited number of transmitters
- Uses micro-controller technology that can be re-programmed to suit unique applications
- Momentary, Latching and Security Latching modes are all user selectable

Description

This Gigalink™ receiver gives you four relay outputs that can switch currents up to 8 Amps each. There is an onboard LED to indicate when the relay is "on". The receiver has a power "on" LED to indicate that the correct supply voltage is connected. The receiver's micro-controller can store unlimited number of transmitters with a high security level using the encrypted 32-bit digital code. Included with the receiver is the Gigalink™ programming cable.

Technical Data

Supply Voltage	11.0 to 28.0 Volts AC/DC.
Operating Frequencies	433.920 (Standard), 433.664, 433.408, 433.152MHz
Output	Relays, rated at 8 Amps / 240V
Recommended Antenna	ANT433 series (433MHz Series)
Compatible Transmitters	GLT433 MHz

Receiver Setup Instructions

The transmitter and receiver can be multi or single channel programmed.

Multi-channel Programming

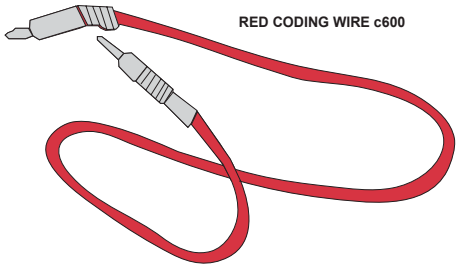
This is used to program all channels from a multi-channel receiver to a multi-channel transmitter. Multi-channel programming can be achieved by following the steps below:

Step 1:	Connect power to the GIGALINK™ receiver. **Make sure all switches on the mode dipswitch are off.**
Step 2:	Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be re-programmed when CC pins are shorted. **Do not do this step if you want to keep previously programmed transmitters.**
Step 3:	Connect the multi channel transmitter to the multi-channel receiver b y inserting the GIGALINK™ cable into the transmitters and receivers 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED), on the transmitter that must remain “on”).
Step 4:	**Activate any two channels simultaneously** on the multi-channel transmitter for one second, LED should blink twice to confirm code programming and then switch “off”.
Step 5:	Disconnect GIGALINK™ cable.

Repeat steps 3 to 5 to program another multi-channel transmitter.

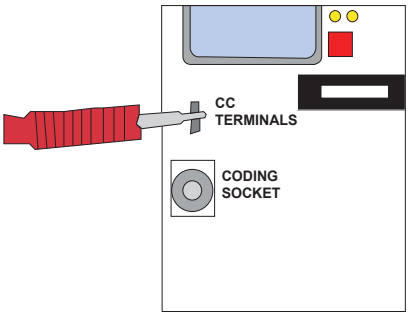
If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

IF RECEIVER DOES NOT RESPOND TO TRANSMITTER YOU MAY NEED TO RECODE



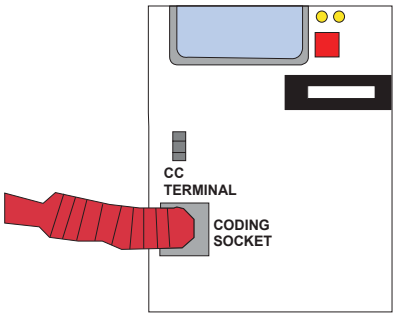
STEP 1

TO DO THIS YOU WILL NEED RED CODING WIRE



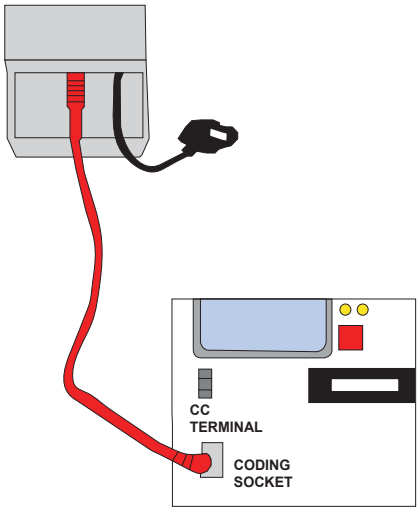
STEP 2

TEMPORARILY SHORT CIRCUIT "CC" TERMINALS WHICH RESETS RECEIVER



STEP 3

CONNECT CABLE TO RECEIVER SOCKET



STEP 4

CONNECT OTHER END TO TRANSMITTER, RED LIGHT WILL ILLUMINATE, PUSH TOP TWO BUTTONS UNTIL RED LIGHT GOES OFF. DISCONNECT AND USE.

Single Channel Programming

This is used for programming one channel at a time to the transmitter. Single channel programming can be achieved by following the steps below:

Step 1: Connect power to the GIGALINK™ receiver. Make sure all switches on the mode dipswitch are off.

Step 2: Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be re-programmed when CC pins are shorted. Do not do this step if you want to keep previously programmed transmitters.

Step 3: Select the receiver channel, to be programmed, by setting the 4-way dipswitch. See dipswitch table below.

Dipswitch Setting				Receiver Channel
1	2	3	4	
Off	Off	Off	Off	1
On	Off	Off	Off	2
Off	On	Off	Off	3
On	On	Off	Off	4

Step 4: Connect the transmitter to the receiver by inserting the GIGALINK™ cable into the transmitters and receivers 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED) on the transmitter that must remain “on”).

Step 5: **Activate one of the selected channels** on the transmitter for approximately one second, LED should blink twice to confirm code programming and then switch “off”.

Step 6: Disconnect GIGALINK™ cable.

Repeat steps 3 to 6 to program another transmitter channel.

If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

Forward Programming

GIGALINK™ receivers have an additional programming feature, known as forward programming. This feature allows the user to program the transmitter code into the receivers. This will enable the transmitters to activate unlimited number of receivers simultaneously.

Forward Programming Steps:	
Step 1:	Connect power to the receiver and transmitter.
Step 2:	Place a jumper across the CC pins of the receiver.
Step 3:	Connect the transmitter and receiver using the coding cable.
Step 4:	Press the transmitter button for 2 seconds.
Step 5:	Remove the coding cable.
Step 6:	Remove the jumper from the CC pin.

The receiver is now programmed with the transmitter's code. Repeat the above steps to program another receiver.

Differrent Modes for the Output

Modes are user selectable from the 4-way dipswitch. Dipswitch 1 corresponds to output channel 1 and dipswitch 2 corresponds to output channel 2 and so on.

Momentary Mode	If the dipswitch is "off" the output will be in the momentary mode. (Relay is active for as long as the transmitter button is pressed).
Latching Mode	If the dipswitch is "on" the output will be in latching mode. (Relay is activated when the transmitter button is pressed and will switch off only after the transmitter button is pressed again
Security Latching Mode	If security latching is required (Relay stays on until power is removed) the latching link should be inserted and soldered into the two holes to the right of the 4-way dip switch. This will enable the corresponding outputs to security latching.

Troubleshooting

This section contains helpful troubleshooting tips and solution.

Symptom	Solution
Receiver not responding to transmitter after programming.	Try to program the transmitter again, but this time with the battery connected to the transmitter. Check if GIGALINK ™ cable is inserted correctly.
Transmitter activates wrong channel on a multi-channel receiver.	Wrong dipswitch setting while programming the receiver. Use the dipswitch table and program again.
Transmitter has short range.	Check receiver antenna connection. If you are using a shielded coax cable, check that the shield is connected to the negative and the coaxial core to the antenna terminal.
LED is flashing on the transmitter.	Replace battery.

Notes

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