




# Linear DXR-701 Digital Receiver User Manual

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## Linear DXR-701 Digital Receiver User Manual



## PRODUCT DESCRIPTION

The DXR-701 is a digital receiver with an isolated relay output designed for use with Linear's DX Format transmitters. This receiver can be used in a variety of remote control applications. When the receiver detects a signal from a transmitter programmed into its memory, the relay output activates. The relay has four optional output configurations. In a typical installation, the receiver is connected to an alarm control panel, door strike, camera, high current relay or some other device. A transmitter is used to activate or control the device. The receiver should be mounted with the supplied mounting bracket indoors or inside a weather-resistant non-metallic housing.

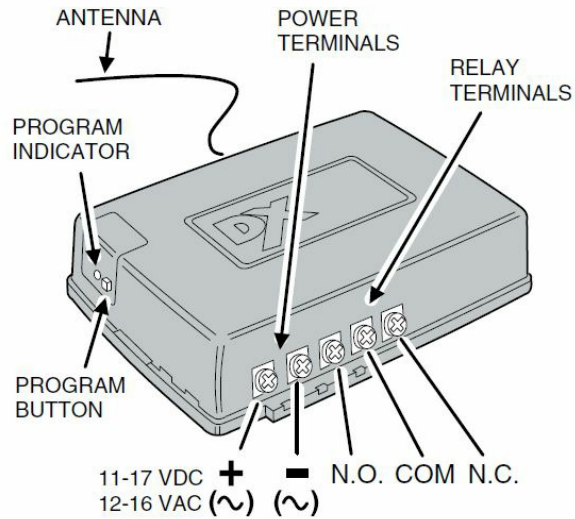
The digital DX code format features over a million possible codes. The DX transmitters are precoded at the factory to unique codes, so no field coding is required. Receivers must be programmed to the transmitter's code before system testing and operation. Up to 32 transmitters can be programmed into the receiver's memory. The memory is retained, even without power. The unit can be powered from an 11-17 VDC or 12-16 VAC power source. The relay's normally open and normally closed contacts can switch up to 1 amp at 24 volts AC/DC. Cutting jumpers select how the relay activates. The factory setting causes the relay to engage for four seconds for each activation. Optionally, the relay can be set to engage for one second, toggle on with one activation then off with the next, or latch engaged until reset by pressing the program button.

## RELAY OPTION JUMPERS

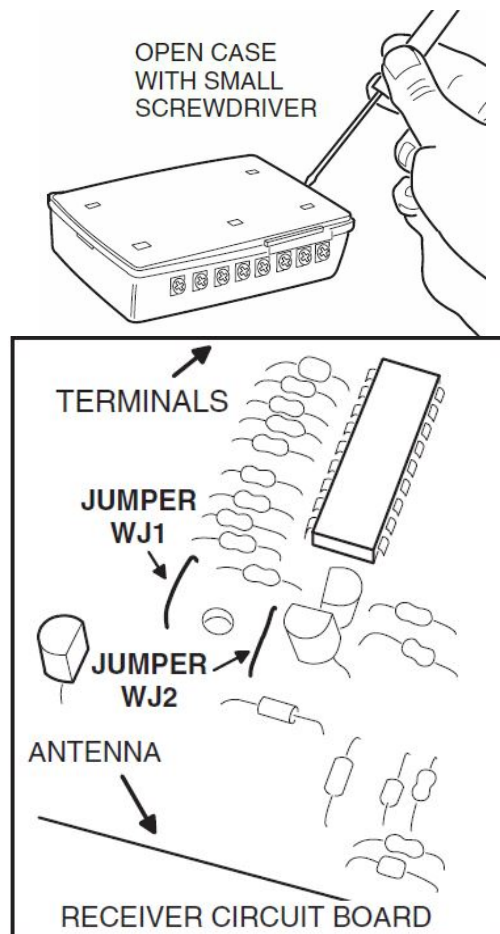
A nine-inch wire lead serves as the receiver's antenna. The red program indicator lights during RF reception. The installer can verify that signals are being sent from transmitters and diagnose interference problems by viewing the indicator. The indicator also lights during memory programming/erasing and flashes to count the number of transmitters in memory. The program button and indicator function as follows:

| FUNCTION           | PROGRAM BUTTON   | PROGRAM INDICATOR   |
|--------------------|--|---|
| NORMAL OPERATION   | RELEASES LATCHED RELAY                                       | LIGHTS AS TRANSMITTERS ARE RECEIVED, BLINKS AS INTERFERENCE IS RECEIVED |
| PROGRAMMING MEMORY | PRESS AND RELEASE  | LIGHTS FOR 3 SECONDS FOR PROGRAMMING                                    |
| CHECKING MEMORY    | PRESS UNTIL BLINK AND RELEASE                                | BLINKS THE NUMBER OF TRANSMITTERS IN MEMORY                             |
| ERASING MEMORY     | PRESS AND HOLD THROUGH THE COUNT AND HOLD FOR 4 SECONDS MORE | AFTER BLINKING COUNT. A PAUSE THEN A SINGLE BLINK AS MEMORY IS ERASED   |

## DXR-701 FEATURES



## RELAY OPTION JUMPERS

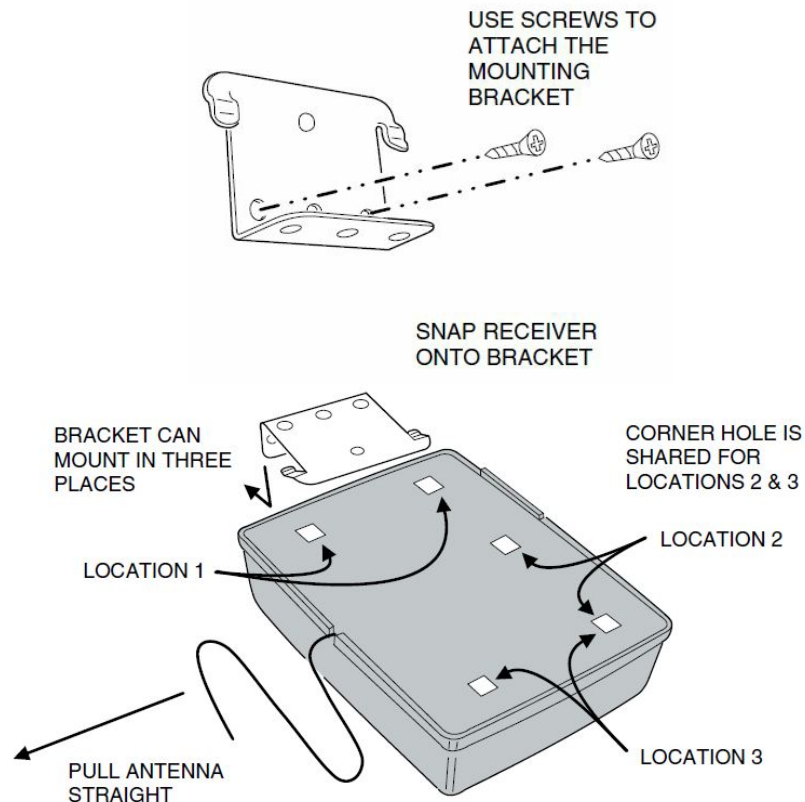


| RELAY OPTION                                     | JUMPER WJ1 | JUMPER WJ2 |
|--|------------|------------|
| 4 SECOND LATCH                                   | SOLID      | SOLID      |
| 1 SECOND LATCH                                   | CUT        | SOLID      |
| LATCH UNTIL RESET ++                             | SOLID      | CUT        |
| TOGGLE ON AND OFF ++                             | CUT        | CUT        |
| <b>BE SURE POWER IS OFF WHEN CUTTING JUMPERS</b> |            |            |

## BE SURE POWER IS OFF WHEN CUTTING JUMPERS

CAN BE RESET BY PUSHING THE PROGRAM BUTTON ONCE PROGRAMMING MEMORY

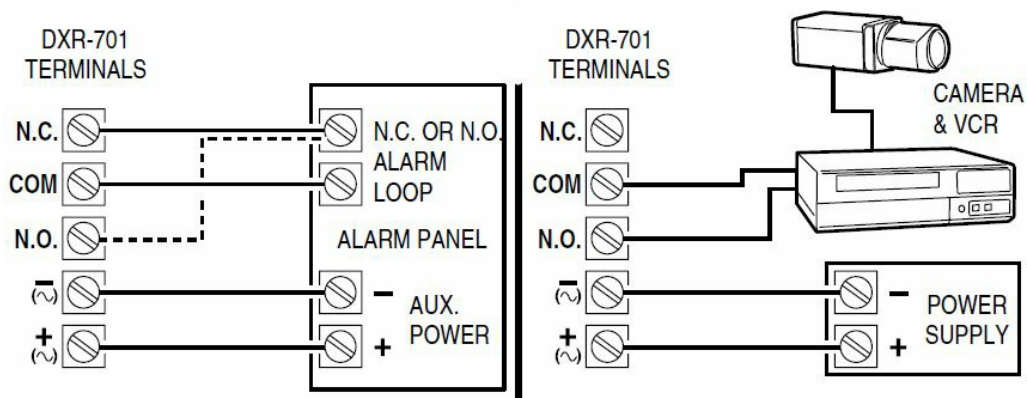
## MOUNTING RECEIVER



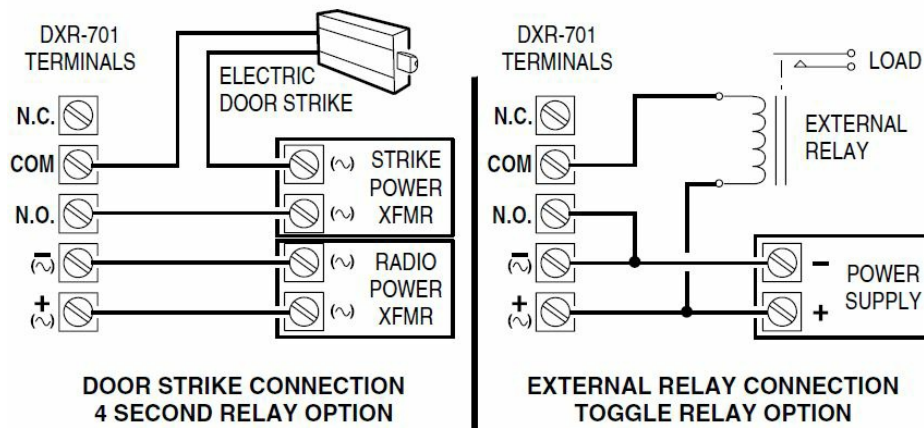
## MOUNTING NOTES

1. MOUNT THE RECEIVER AS HIGH AS POSSIBLE FOR THE BEST RADIO RANGE
2. KEEP THE RECEIVER AWAY FROM METAL OBJECTS THAT CAN DECREASE RADIO RANGE BY SHIELDING THE SIGNAL
3. KEEP RECEIVER AWAY FROM MOTORS, FANS AND OTHER ELECTRICAL DEVICES THAT MAY CAUSE INTERFERENCE AND REDUCE RADIO RANGE

## TERMINAL CONNECTIONS

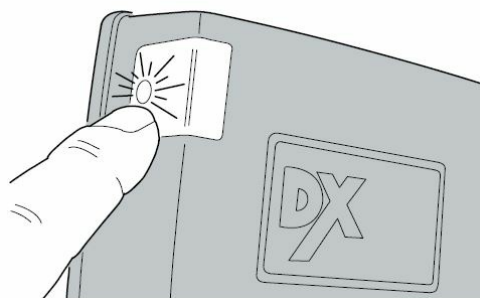


## ALARM PANEL CONNECTION 1 SECOND RELAY OPTION

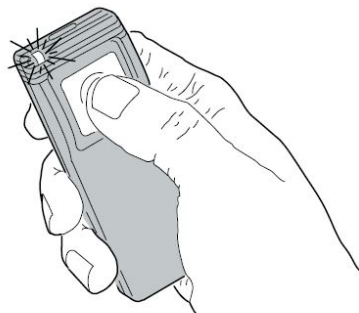


## PROGRAMMING MEMORY

1. PRESS AND RELEASE PROGRAM BUTTON.



2. PROGRAM INDICATOR WILL LIGHT IF THERE IS ROOM IN MEMORY FOR ANOTHER TRANSMITTER. (32 TRANSMITTERS MAX.)



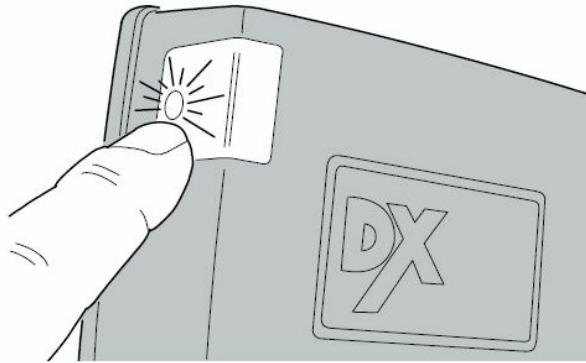
3. SEND SIGNAL FROM TRANSMITTER, INDICATOR WILL FLICKER AS SIGNAL IS RECEIVED.
4. REPEAT THE ABOVE THREE STEPS FOR EACH ADDITIONAL TRANSMITTER.

### NOTE

THE RECEIVER CAN MEMORIZE EACH TRANSMITTER MORE THAN ONCE. TO PREVENT DUPLICATE ENTRIES, PROGRAM EACH TRANSMITTER INTO RECEIVER ONLY ONCE.

## CHECKING MEMORY

1. PRESS THE PROGRAM BUTTON AND HOLD FOR ABOUT TWO SECONDS UNTIL THE INDICATOR LIGHTS RELEASE.

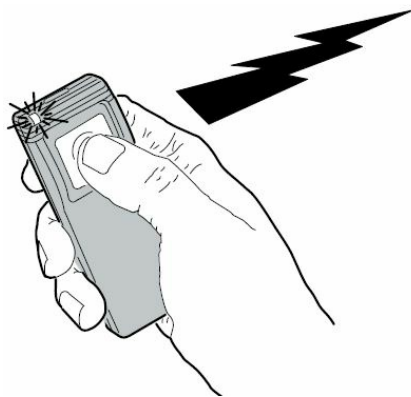


2. COUNT THE NUMBER OF INDICATOR BLINKS, THIS IS THE TOTAL NUMBER OF TRANSMITTERS PROGRAMMED.

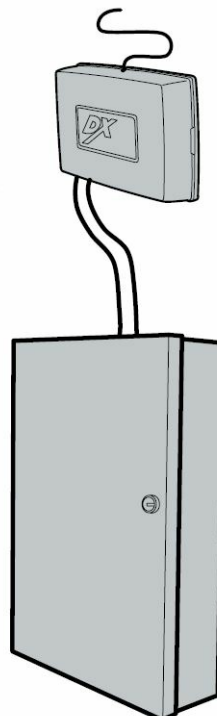
**NOTE**

DO NOT CONTINUE TO PRESS THE BUTTON OR THE MEMORY WILL BE ERASED

**SYSTEM TESTING**

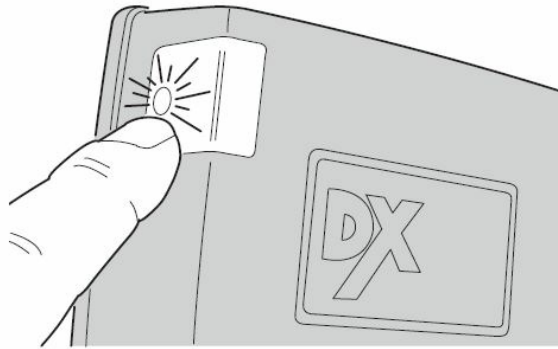


1. ACTIVATE EACH TRANSMITTER, ONE AT A TIME.



2. LISTEN FOR THE RELAY CLICK IN THE RECEIVER.
3. VERIFY THAT THE DEVICE CONNECTED TO THE RECEIVER RESPONDS.
4. TEST PORTABLE TRANSMITTERS IN VARIOUS LOCATIONS TO DETERMINE SYSTEM PERFORMANCE.

## ERASING MEMORY



1. PRESS THE PROGRAM BUTTON AND CONTINUE TO HOLD IT THROUGH THE COUNT OF THE TRANSMITTERS.
2. CONTINUE TO HOLD THE BUTTON AFTER THE COUNT UNTIL THE INDICATOR BLINKS ONE MORE TIME (ABOUT FIVE SECONDS AFTER THE COUNT).
3. ALL TRANSMITTERS PROGRAMMED INTO MEMORY WILL BE ERASED.
4. PUSH AND HOLD THE BUTTON FOR FIVE SECONDS AFTER THE TRANSMITTER COUNT

## LINEAR LIMITED WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labelled on the product. This warranty extends only to wholesale customers who buy directly from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages concerning the loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.

All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until the Warranty Expiration Date as labelled on the product. This Linear Corporation Warranty is instead of all other warranties express or implied. All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Service at 1-800-421-1587 for an RPA# and other important details.

## IMPORTANT

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signalling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- General knowledge of radio and its vagaries should be gained before acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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## References

- [User Manual](#)