

XT-4

XTENDED RANGE FOUR CHANNEL SUPERVISED STATIONARY TRANSMITTER

For Use With Linear's
XR Series Xtended
Range Receivers

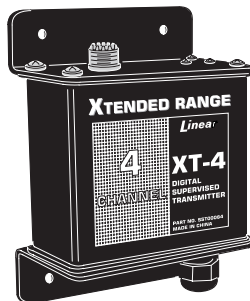
Installation Instructions

Linear®

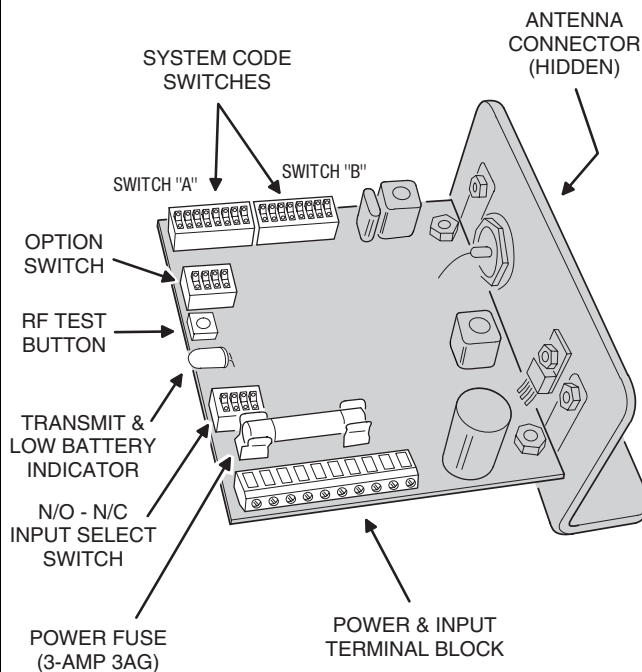
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**WARNING: THIS
PRODUCT SHOULD NOT
BE USED IN LIFE
SAFETY APPLICATIONS.**

FCC Rules allow
unlicensed high-power
transmissions at or near
the operating frequency
of this product which
may interfere with, or
even disable, normal
operation of this radio
device.



3. COMPONENT LOCATIONS



1. PRODUCT DESCRIPTION

Linear's Xtended Range FM transmitters and receivers are designed for use in various wireless remote control applications. When triggered with an external switch, the Model XT-4 transmitter will send a 10 watt, 27.255 MHz, digital encoded, FSK modulated, signal to its companion receiver. The receiver will verify the digital code, activate its output, and trigger the remote device.

The XT-4 transmitter has full supervision capabilities. If the "status" option is selected, the XT-4 sends hourly status signals to its receiver. If these signals cease, the receiver will indicate trouble by activating its status output after four hours. Contact supervision allows the receiver's outputs to follow the transmitter's inputs, staying activated as long as each transmitter input is activated. Alternately, an "auto-restore" option can be selected, causing a momentary receiver output each time any transmitter input is activated. Each input can be configured for either N/O or N/C contacts (switch selectable).

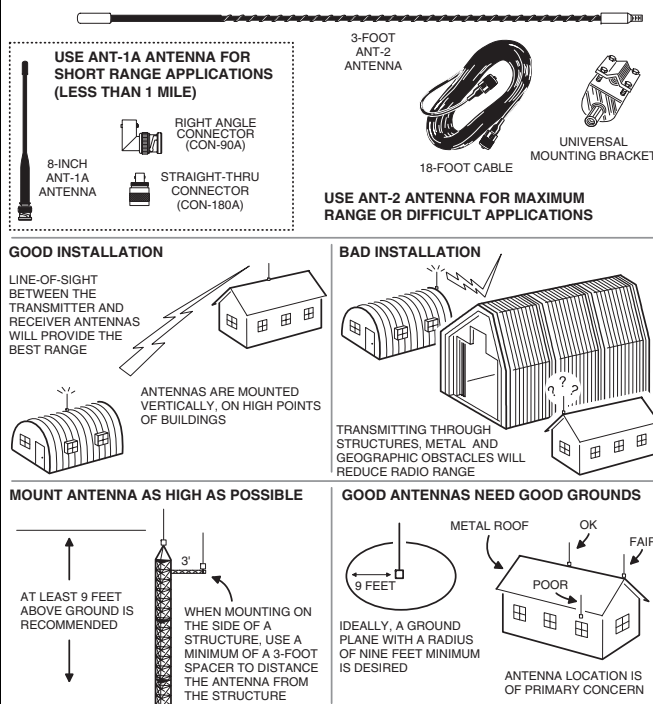
Power for the XT-4 transmitter can come from an external regulated 12 VDC power supply (Linear Model T-1224DC) or from a 12-volt battery. A 3-amp fuse protects the unit from reverse power polarity. The XT-4 draws about 15 μ A standby, and about two amps during transmissions. If the power supply voltage drops below 10.5 volts, a low battery message will be included with any signal transmitted, causing the receiver's low battery output to activate.

Two antennas (sold separately) are available for the XT-4. The Model ANT-1A is an 8-inch "rubber duck" antenna for short range applications (less than 1 mile). The ANT-1A requires a CON-180A (straight) connector to mate the antenna to the transmitter. For a right angle antenna, use the CON-180A plus the CON-90A. The Model ANT-2 is a 3-foot whip antenna for use in long range or difficult installations where more range from the XT-4 is required. A common 9-foot 1/4 wave CB whip antenna can also be used with the XT-4 for maximum range.

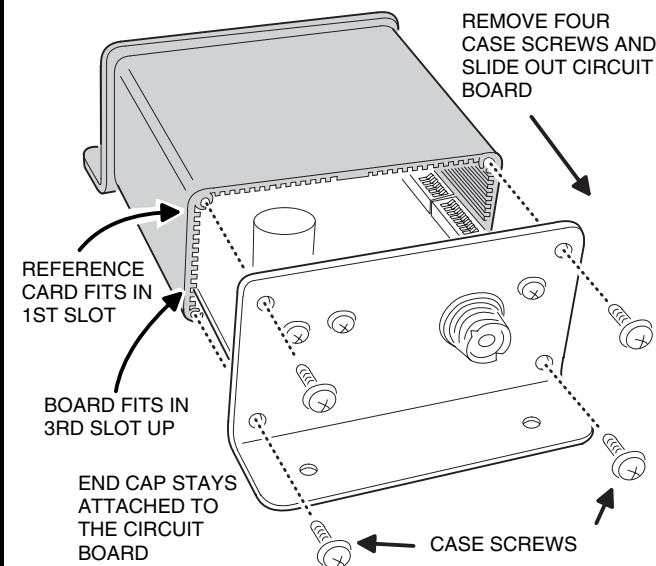
Two 8-position switches set the unit's system code. This code must be matched in the XT-4's receiver. There are 65,536 different system codes possible. The 4-position option switch selects the receiver's bank (for XR-16 receiver only), and options for status and auto-restore transmissions.

The transmitter is housed in a rugged weather-resistant metal enclosure with a sturdy SO-239 antenna connector and a water-tight wiring strain relief bushing. During transmissions, the red operation indicator (visible through a window on the case) lights. If the XT-4's input voltage is low, the indicator will blink during transmissions.

4. INSTALLATION TIPS



2. OPEN TRANSMITTER



5. MOUNT TRANSMITTER CASE

If using the ANT-1A antenna: For best range mount the XT/XR unit to a metal plate with a minimum size of 12" x 12". The ANT-1A antenna should extend above the mounting plate and be free of obstructions. If the ANT-1A antenna cannot be mounted in the open, consider using an extension coaxial cable with PL-259 connectors to move the antenna's location.

The XT/XR series of radios operate in the 27 MHz Citizens Band (CB) and may use any CB antennas or CB antenna accessories. Antennas, PL-259 extension cables and other adapters are available at Radio Shack® or other electronics stores.

