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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT 900 MHz RF Transceiver MODEL 44-4000-2BFB-120VAC

### DESCRIPTION

The Air-EAGLE XLT RF TRANSCEIVER is a dual pushbutton transmitter and dual LED receiver in one compact unit. Designed to work with another Air-Eagle XLT Transceiver, located up to 2500 (or more) feet away, this unit allows the user to transmit information and then receive, by visual LED status, a confirming signal back that the operation was performed. The Air-Eagle XLT TRX is user-programmable for up to 128 digital addresses and seven network frequencies to allow multiple transceivers to operate simultaneously in the same area and utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

### APPROVALS

|                     |                |
|---------------------|----------------|
| United States (FCC) | MCQ-XBEEEXSC   |
| Canada (IC)         | 1846A-XBEEEXSC |

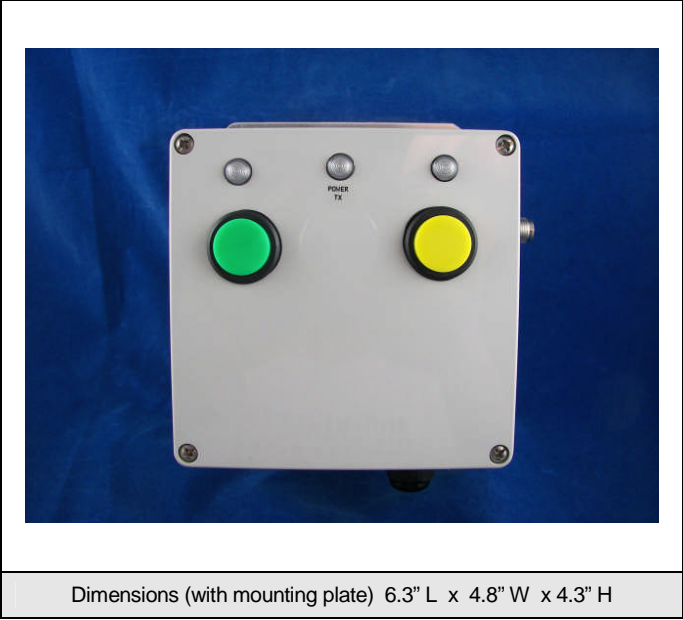
### INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT TRANSCEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect AC power and control to the proper terminals in your control circuit.

### TERMINAL STRIP WIRING – BOTTOM PCB

|   |          |    |          |    |                     |
|---|----------|----|----------|----|---------------------|
| 1 | Not Used | 7  | Not Used | 13 | 120 VAC - (Neutral) |
| 2 | Not Used | 8  | Not Used | 14 | 120 VAC - (Hot)     |
| 3 | Not Used | 9  | Not Used |    |                     |
| 4 | Not Used | 10 | Not Used |    |                     |
| 5 | Not Used | 11 | Not Used |    |                     |
| 6 | Not Used | 12 | Not Used |    |                     |



### CONTROLS & INDICATORS

|                    |                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Power/TX LED       | Illuminates GREEN when power is applied to the unit. Illuminates RED while any button is depressed and unit is transmitting. |
| Pushbutton 1 and 2 | Transmits individual button commands to the receiver                                                                         |
| LED 1              | Illuminates BLUE when Button #1 command has been performed                                                                   |
| LED 2              | Illuminates BLUE when Button #2 command has been performed                                                                   |

# AIR-EAGLE® XLT

900 MHz RF Transceiver

**MODEL 44-4000-2BFB-120VAC**

## DIGITAL ADDRESS & FREQUENCY SET-UP

This transceiver is factory programmed to Frequency #1 and Digital Address "0". These settings can be changed by the user in any combination **but must match its corresponding transceiver.**

- 1) Remove power from unit
- 2) Remove top cover.
- 3) Select desired address and/or network frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

| SEL1 (ADDRESS)                             | Seven dip switches for selecting digital address of this transmitter (Maximum of 128 combinations) |        |        |        |
|--------------------------------------------|----------------------------------------------------------------------------------------------------|--------|--------|--------|
| SEL 2 (SW 1-3):<br><br>(NETWORK FREQUENCY) | Network Address                                                                                    | SW1    | SW2    | SW3    |
|                                            | 1                                                                                                  | OPEN   | OPEN   | OPEN   |
|                                            | 2                                                                                                  | CLOSED | OPEN   | OPEN   |
|                                            | 3                                                                                                  | OPEN   | CLOSED | OPEN   |
|                                            | 4                                                                                                  | CLOSED | CLOSED | OPEN   |
|                                            | 5                                                                                                  | OPEN   | OPEN   | CLOSED |
|                                            | 6                                                                                                  | CLOSED | OPEN   | CLOSED |
| 7                                          | OPEN                                                                                               | CLOSED | CLOSED |        |
| SEL2 (SW4)                                 | Reserved for future use                                                                            |        |        |        |

## SPECIFICATIONS

|                       |                                            |
|-----------------------|--------------------------------------------|
| DC Input              | 120 VAC, 16 W, 50/60 Hz                    |
| Relay Contacts        | SPDT 5 amp @ 120 VAC or 50 VDC             |
| Fuse Protected        | 1 amp                                      |
| Transceiver Frequency | 900 MHz Spread Spectrum                    |
| RF Output Power       | 100 mW                                     |
| Transceiver Range     | Approximately 2500 feet w/standard antenna |
| Transceiver Channels  | 7 Independent Network Frequencies          |
| Antenna Connection    | TNC Bulkhead                               |
| Enclosure             | Polycarbonate / NEMA 4, 4x, 12 + 13        |
| Operating Temperature | -40° F to +185° F                          |

## REPLACEMENT PARTS & ACCESSORIES

|                                                                              |                                |
|------------------------------------------------------------------------------|--------------------------------|
| PC Board (Main)                                                              | 44-4002-2BFB-120VAC            |
| Standard Antenna (Included):                                                 |                                |
| 900MHz Portable Antenna (For distances up to 2500 feet*)                     | 49-1103                        |
| Optional Antennas and Accessories:                                           |                                |
| 900MHz Omni Directional Antenna (For distances up to 2 miles*)               | 49-3101                        |
| 900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 4 miles*) | 49-3102                        |
| Flex Coax Cable w/Connectors                                                 | 49-4000-XX<br>(XX = # of Feet) |
| Inline Lightning Arrestor                                                    | 49-5002                        |
| * = Line of Sight                                                            |                                |

## LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

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