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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT 900 MHz RF Transceiver MODEL 44-4370-DC

### DESCRIPTION

The AIR-EAGLE XLT RF TRANSCEIVER IS a four I/O unit designed to operate a Cummins Diesel Powered Pump. It receives communications from up to three model 44-4170-4B-DC transmitter(s), located up to 2500 feet (or more) away. This unit is user-programmable for up to seven network frequencies to allow multiple systems 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.

### INSTALLATION

DISCONNECT DC 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 or coax for external antenna to this connector.
3. Connect DC power and control to the proper terminals in your control circuit.

### TERMINAL STRIP WIRING – BOTTOM PCB

1	N/O Relay #1	7	N/O Relay #3	13	(-) 9-36 VDC INPUT
2	C Relay #1	8	C Relay #3	14	(+) 9-36 VDC INPUT
3	Not Used	9	Not Used		
4	N/O Relay #2	10	N/O Relay #4		
5	C Relay #2	11	C Relay #4		
6	Not Used	12	Not Used		

Relay 1 – “Ignition” output, toggle latch  
Relay 2 – “Start” output, momentary  
Relay 3 – “Throttle Down” output, momentary  
Relay 4 – “Throttle Up” output, momentary

### TERMINAL STRIP WIRING –TOP PCB

1	-12VDC from Glow Plug Circuit	6	Not Used
2	+12VDC from Glow Plug Circuit	7	Not Used
3	-12VDC from Run Input Circuit	8	Not Used
4	+12VDC from Run Input Circuit	9	Not Used
5	Not Used	10	Not Used



Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

### FREQUENCY SET-UP

This transceiver is factory programmed to Frequency #1. This setting can be changed by the user **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.

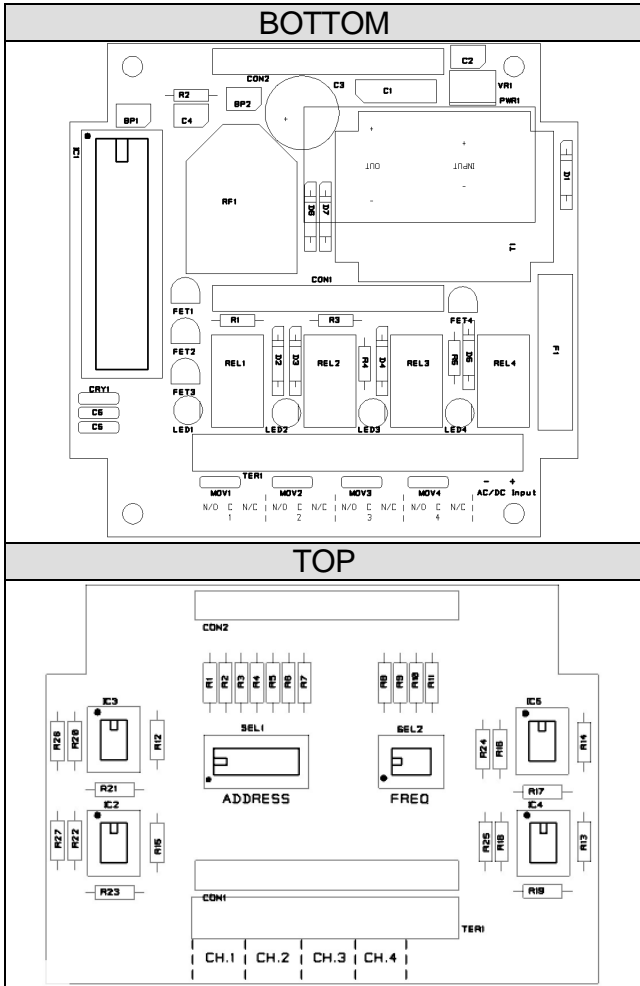
SEL1 (ADDRESS)	Not used on this model			
SEL 2 (SW 1-3):  (NETWORK FREQUENCY)	Network Address	SW1	SW2	SW3
	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
	OPEN		CLOSED	
SEL2 (SW4)	Reserved for future use			

# AIR-EAGLE® XLT

## 900 MHz RF Transceiver

### MODEL 44-4370-DC

### CONTROLS AND INDICATORS



LED1 – LED4	Will be illuminated when the corresponding relay is energized
Inputs 1 thru 4	12VDC Inputs
REL1 thru REL4	Four SPDT output control relays

### SPECIFICATIONS

DC Input	9 – 36 VDC @ 10 Watts
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

### APPROVALS

United States (FCC)	MCQ-XBEEESC
Canada (IC)	1846A-XBEEESC

### REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	44-4372-DC
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 (XX = # of Feet)
Inline Lightening 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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