



105 Bonnie Drive  
Butler, PA 16002  
724-283-4681  
724-283-5939 (fax)  
www.bwieagle.com

# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT 900 MHz RF Transceiver MODEL 44-4170-4B-DC

### DESCRIPTION

The AIR-EAGLE XLT RF TRANSCEIVER IS a four pushbutton unit designed to remotely operate a Cummins Diesel Powered Pump, located up to 2500 feet (or more) away. This model communicates specifically with the model 44-4370-DC Transceiver. It 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.

### APPROVALS

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

### 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 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	Not Used	7	Not Used	13	(-) 9-36 VDC INPUT
2	Not Used	8	Not Used	14	(+) 9-36 VDC INPUT
3	Not Used	9	Not Used		
4	Not Used	10	Not Used		
5	Not Used	11	Not Used		
6	Not Used	12	Not Used		



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

### CONTROLS & INDICATORS

Power	Illuminates GREEN when DC power is applied to the unit.
"Ignition" Button	Transmits an "On/Off" Signal to energize Relay #1 in the receiver.
"Start" Button	Transmits momentary signal to start engine when "Glow Plug Ready" signal is received.
"Throttle Down" Button	Transmits momentary signal to decrease engine speed.
"Throttle Up" Button	Transmits momentary signal to increase engine speed.
"Ignition" LED	Illuminates GREEN to confirm that ignition signal was received.
"Glow Plug" LED	Illuminates RED during glow plug warm up cycle. Turns GREEN when it is safe to start the engine.
"Run" LED	Illuminates GREEN while engine is running.

# AIR-EAGLE® XLT

900 MHz RF Transceiver

**MODEL 44-4170-4B-DC**

## 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			

## 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

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	44-4172-4B-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 of 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.

DOCUMENT DATE: 13-Feb-10 / REV.1



105 Bonnie Drive  
Butler, PA 16002  
(724) 283-4681  
Fax (724) 283-5939  
[www.bwieagle.com](http://www.bwieagle.com)