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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT PLUS 900 MHz RF Transmitter MODEL 461-HH-9

DESCRIPTION

The AIR-EAGLE XLT PLUS TX is a handheld R.F. transmitter capable of sending up to sixteen unique digital commands to an Air-Eagle XLT Receiver located up to 5000 feet away. Any number of transmitters and receivers can be combined to create a long-range radio frequency system that operates hazardous or hard-to-reach equipment from safe, convenient locations. Seven user-programmable frequencies allow multiple systems to operate simultaneously in the same area without interference. This transmitter will automatically go into "sleep" mode when no buttons are being depressed on the unit to dramatically extend battery life.

INITIAL SET-UP

This transmitter comes ready to operate, with batteries installed, and factory programmed to Frequency #1. No setup is necessary unless you wish to change frequencies.

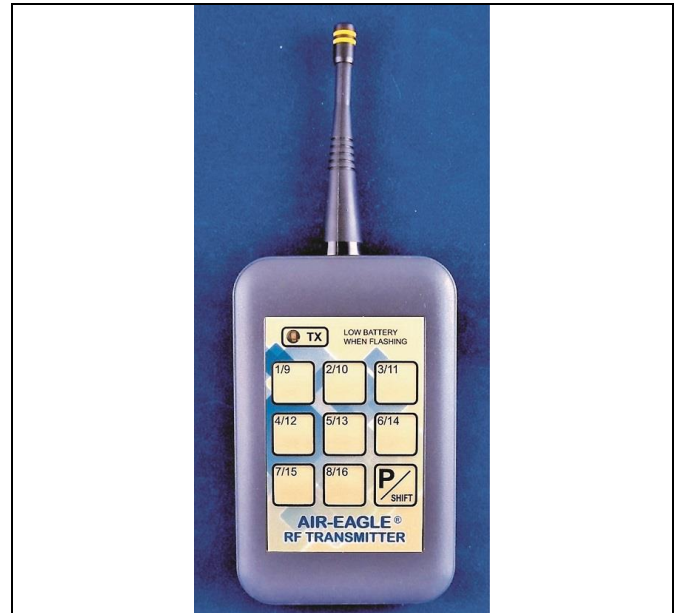
For example, if you are setting up this transmitter to use with an existing system that is operating on Frequency #1, no change in this setting is necessary. However, if you wish to operate this unit with a receiver on another network, follow the programming procedure on the next page to change the frequency setting appropriately.

GENERAL OPERATION

This transmitter sends up to 16 independent commands. Each button sends an RF Code for that channel. Button 1 transmits channel 1 commands, button 2 transmits channel 2 commands etc. To send commands 9 thru 16, the P/Shift button must be used. As noted under CONTROLS & INDICATORS, the P/Shift button serves two purposes. As the "P" button, it allows you to program the transmitter to operate on a different frequency. As the "Shift" button, it allows you to send commands 9 thru 16 to the receiver.

To use as the "P" button, you must press and hold the button for approximately 5 seconds to enter programming mode. (See PROGRAMMING section for more details).

To use as the "Shift" button, press the P/Shift button momentarily. The TX LED will begin to flash rapidly indicating you're in the Shift mode. While in shift mode pressing buttons 1 thru 8 transmit the higher numbered code for that button. The transmitter will stay in the Shift mode as long as buttons are being depressed within 10 seconds of one another. During this time, the TX LED gives visual confirmation that you're in Shift mode by continuously flashing GREEN/RED rapidly. After 10 seconds has elapsed with no buttons depressed, the transmitter will revert back to standard mode and the TX LED will extinguish. If, while in Shift mode, you wish to transmit a button 1 thru 8 command and don't want to wait for the Shift mode to time out, you can simply press the P/Shift button momentarily to revert back to the standard mode.



Dimensions: 4.71" L x 2.99" W x 1.12" D
(Note – belt clip adds .43" to depth)

CONTROLS & INDICATORS

TX LED	LED illuminates RED continuously while button is depressed and unit is transmitting. When this LED blinks briefly following a transmission, the battery needs to be replaced. See Note #1
Note #1 – The low battery notification signals have been improved to provide more noticeable indications and to safely disable communications BEFORE a low battery condition can corrupt internal memory causing device failure. When a low battery is first detected, the TX LED will blink several times after all buttons are released. If it is possible to replace the batteries now, please do so. If not, the operator has approximately 15 more button activations. During this time, when a button is depressed and held, the TX LED will blink SLOWLY. The slow blinking will continue several more times after all buttons are released. Transmissions are still being sent to the receiver during this time. When a button is depressed and the TX LED is RAPIDLY blinking, the RF output is disabled and NO signal will reach the receiver. The batteries MUST NOW BE REPLACED to resume normal functions.	
Pushbuttons 1 thru 8	Transmit individual button RF codes to the receiver
Pushbutton P/Shift	The P/Shift button performs two functions: 1. If button is depressed momentarily and another button is then pressed within 10 seconds, the higher code for that button is transmitted. This allows for transmission of pushbutton codes 9 thru 16. 2. If button is depressed for longer than 5 seconds, the transmitter will enter "programming" mode. See PROGRAMMING section.
Pushbuttons 9 thru 16	Used to communicate with a second receiver – will activate Relays 1 thru 8 INDIVIDUALLY in the second receiver (no dual relay activation capability)

AIR-EAGLE® XLT PLUS

900 MHz RF Transmitter

MODEL 461-HH-9

PROGRAMMING

Please read through these instructions completely before beginning programming procedure!

At any time, you can check the current frequency setting by depressing the P/Shift button, for approximately 5 seconds, until the TX LED is illuminated **"RED"**. Then release the button and watch until the TX LED begins to blink. The TX LED will blink **"RED"** one, two, three or four times for Frequencies 1 thru 4, or will blink **"GREEN"** one, two or three times for Frequencies 5 thru 7 accordingly. See table below for clarification.

LED Flashes:	Indicates Unit is Operating On:
RED – one time	Frequency 1
RED – two times	Frequency 2
RED – three times	Frequency 3
RED – four times	Frequency 4
GREEN – one time	Frequency 5
GREEN – two times	Frequency 6
GREEN – three times	Frequency 7

To change the setting, follow these steps:

To select from Frequencies 1 thru 7:

1. Depress the P/Shift button until the TX LED is illuminated **"RED"**. (Approximately 5 seconds)
2. Release the P/Shift button, then while the TX LED is still illuminated **"RED"**, depress button #1 to select "Frequency 1" or button #2 to select "Frequency 2" etc. If the transmit LED goes out before you have selected a network, no settings will have changed, **and** the LED will blink corresponding to the frequency that the TX is currently set to. You must then begin again at step 1 if you wish to change the current setting.
3. The TX LED will blink to confirm that your frequency selection has been accepted, and then will go out. For instance, if you have selected Frequency #1, the TX LED will blink **"RED"** once to confirm. If you have selected Frequency #6, the TX LED blinks **"GREEN"** two times to confirm.

Programming is now complete and the transmitter is active for normal operation.

You may repeat the above procedure if you wish to change the frequency at any time. See note* in SPECIFICATIONS.

DOCUMENT DATE: 03/01/2019 / PRODUCT REV. 11



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SPECIFICATIONS

Keypad	Durable Sealed Membrane Keypad – Eliminates Dust, Dirt and Moisture Failures	
Enclosure	ABS UL94 HB	Enclosure with ring is rated IP54 *Not Waterproof
Protective Ring	SEBS (TPE)	
Power Requirements	3.0 VDC	
Battery Type	(2) 1.5V lithium each, size AA, to equal 3.0VDC nominal.	
*Note: Current frequency settings are maintained in flash memory during battery replacement. No reprogramming of frequency settings is necessary!		
Battery Life(Active Usage)	Up to 6 months	
Battery Life(Sleep Mode)	Up to 1 Year	
Transmit Frequency	900 MHz Spread Spectrum	
RF Output Power	1W	
Transmit Channels	Seven Independent Network Frequencies	
Transmit Range	Approximately 5000 Feet	
Operating Temperature	-40° F to +185° F	
Weight	Approx .28 lbs. (w/belt clip)	

APPROVALS

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

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 warranty also does not cover water damage to any handheld transmitter. 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.