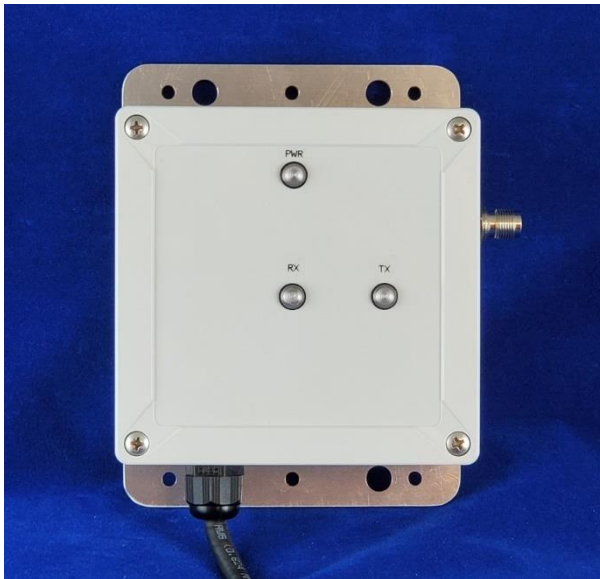

AIR-EAGLE XLT

441-4500-DC

900 MHz RF Repeater



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Product Rev: 0

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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.

SIGNAL RANGE

Max range statements are estimates based on a clear line of sight with few interferences. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting and receiving antennas, weather conditions, electronic interference, terrain, and physical obstacles, including but not limited to; walls, building structures, trees (foliage), metal objects, and landscape (hills, mountains).



WIRELESS STOP, ASTOP, and E-STOP SYSTEMS

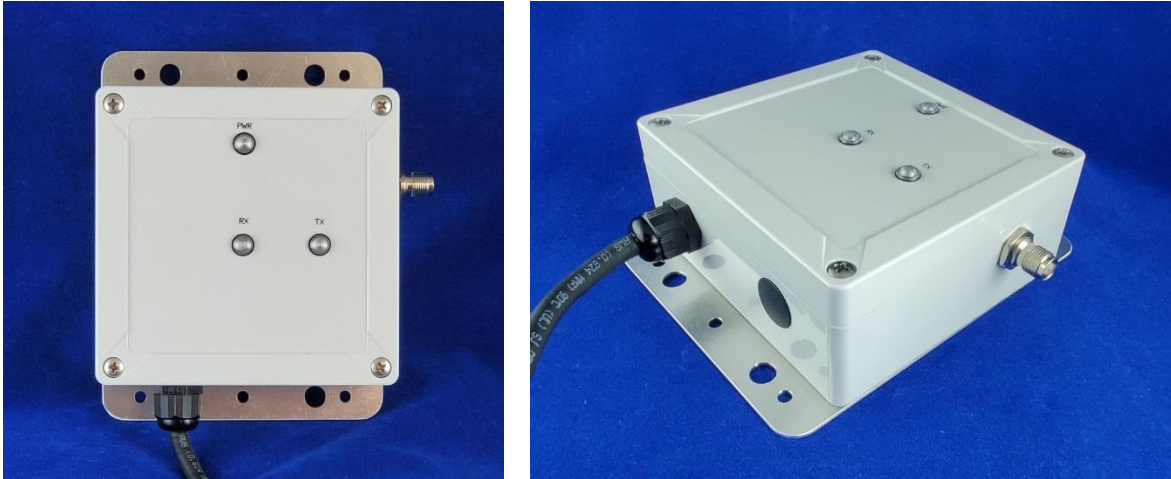
Wireless E-STOP systems should never be considered a primary life-saving device. At least one hard-wired switch must be available in the event the wireless system is not operational. Failure to comply may result in serious injury or death to personnel and damage to equipment.



Wireless STOP and ASTOP transmitters are not failsafe emergency stop controls. They are NOT to be used as a life-saving device. They are designed for wireless control of equipment or vehicle remote operation. Failure to use as intended may result in serious injury or death to personnel and damage to equipment.



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INTRODUCTION

The Air-Eagle XLT RF Repeater is designed to retransmit an RF signal from any Air-Eagle XLT Transmitter. When placed in an area where the signal is weak, this unit will pick up the weak signal and retransmit it at full power facilitating greater distances and allowing the RF signal to reach around corners, through tunnels, over hills, and through valleys.

INSTALLATION

1. **DISCONNECT** power from all equipment before proceeding with installation.
2. Mount the repeater in a convenient location.
3. Attach rubber duck antenna or coax from external antenna to connector on side of enclosure.
4. Connect supplied power input cable to external power source.

APPROVALS

| | |
|---------------------|---------------------|
| United States (FCC) | MCQ-XB900HP |
| Canada (IC) | 1846A-XB900HP |
| Australia | RCM |
| Brazil | ANATEL 3727-12-1209 |

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TERMINAL STRIP WIRING

| | |
|-------------|-------------------------|
| Terminal 1 | (-) 9-36 VDC Input |
| Terminal 2 | (+) 9-36 VDC Input |
| Terminal 3 | Not used on this model. |
| Terminal 4 | |
| Terminal 5 | |
| Terminal 6 | |
| Terminal 7 | |
| Terminal 8 | |
| Terminal 9 | |
| Terminal 10 | |
| Terminal 11 | |
| Terminal 12 | |
| Terminal 13 | |
| Terminal 14 | |
| Terminal 15 | |
| Terminal 16 | |
| Terminal 17 | |
| Terminal 18 | |

FREQUENCY SETUP

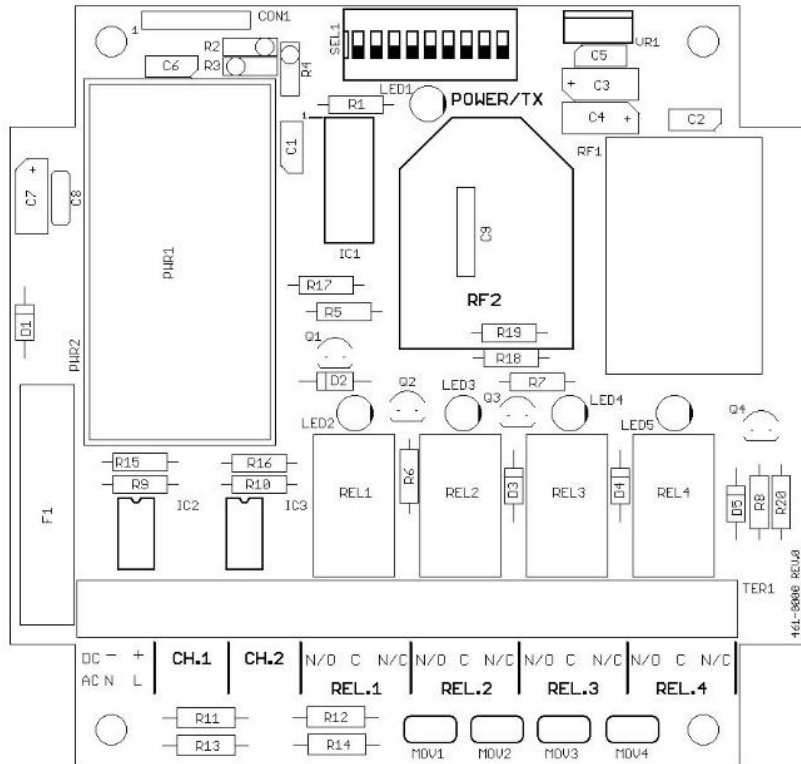
The unit is shipped from the factory with SEL1 switches in the open positions. The unit is operating on frequency 1. To change default setting, follow the instructions below:

1. ***IMPORTANT***
Disconnect power from unit.
2. Remove top cover.
3. Select desired frequency using the table.
4. Reattach cover.
5. Reconnect power to unit.
6. Programming is complete.

| NETWORK FREQUENCY | SW5 | SW6 | SW7 |
|--|--------|--------|--------|
| 1 (default) | 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 |
| 8 | CLOSED | CLOSED | CLOSED |
| Note: SW1, SW2, SW3, SW4, SW8, and SW9 are not used on this model. Leave in the OPEN position. | | | |

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CONTROLS & INDICATORS



| | |
|------------------|--|
| RX LED | Yellow LED illuminates while remote signals are being received. |
| POWER LED | Green LED illuminates while power is applied. |
| TX LED | Red LED illuminates while remote signals are being re-transmitted. |
| RF1 | RF Module that transmits/receives data |
| SEL1 | Used to set frequency |

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SPECIFICATIONS

| | |
|---|---------------------------------------|
| Power Supply | 9-36 VDC, 16 W, 50/60 Hz |
| Fuse Protected | 2 amp |
| Receiver Frequency | 900 MHz Spread Spectrum |
| Receiver Range | Up to 2500 feet * |
| RF Networks | Eight Independent Network Frequencies |
| RF Output Power | 250mW |
| Operating Temperature | -40° F to +185° F |
| Enclosure | Polycarbonate, IP66 (NEMA 4) |
| <p>*Note: Max range statements are estimates based on a clear line of sight with few interferences. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting and receiving antennas, weather conditions, electronic interference, terrain, and physical obstacles, including but not limited to; walls, building structures, trees (foliage), metal objects, and landscape (hills, mountains).</p> | |

ACCESSORIES

| | |
|---|---------------------------------------|
| STANDARD ANTENNA (INCLUDED) | |
| 900MHz TNC Portable "Rubber Duck" Antenna | 49-1103 |
| MOBILE/BASE ANTENNAS (OPTIONAL) Used to help achieve max range in non-line-of-sight and line-of-sight applications. Contact BWI Eagle for recommendations. | |
| 900MHz Thru-Hole/Bracket Mount Mobile Antenna | 49-2101 |
| 900MHz Magnet Mount Mobile Antenna | 49-2102 |
| 900MHz Omni Directional Base Antenna | 49-3101 |
| 900MHz Yagi Directional Base Antenna | 49-3102 |
| HIGH QUALITY COAX CABLE Used to connect external antennas to control unit. | |
| Flex Coax Cable w/Connectors (Available in 5', 15', 25', 30', 40', 60', 80', and 100' lengths) | 49-4000-XX (XX = length in feet) |
| BULKHEAD EXTENSION Used to provide an external antenna connection when mounting control unit inside another enclosure. | |
| TNC Male to TNC Bulkhead Cable Assembly (Available in 2', 4', and 7' lengths) | 49-5004-X-ISO (X = length in feet) |

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DIMENSIONS

