

FIG. 1: TRANSMITTER INSIDE COVER

WIRED ATB SWITCH TRANSMITTER

ERROR CODE CHART	
PROBABLE CAUSE	
1	LOW SWITCH BATTERY
2	ATB CONDITION
3	FAULTY CIRCUIT TO ATB OUTPUT

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.

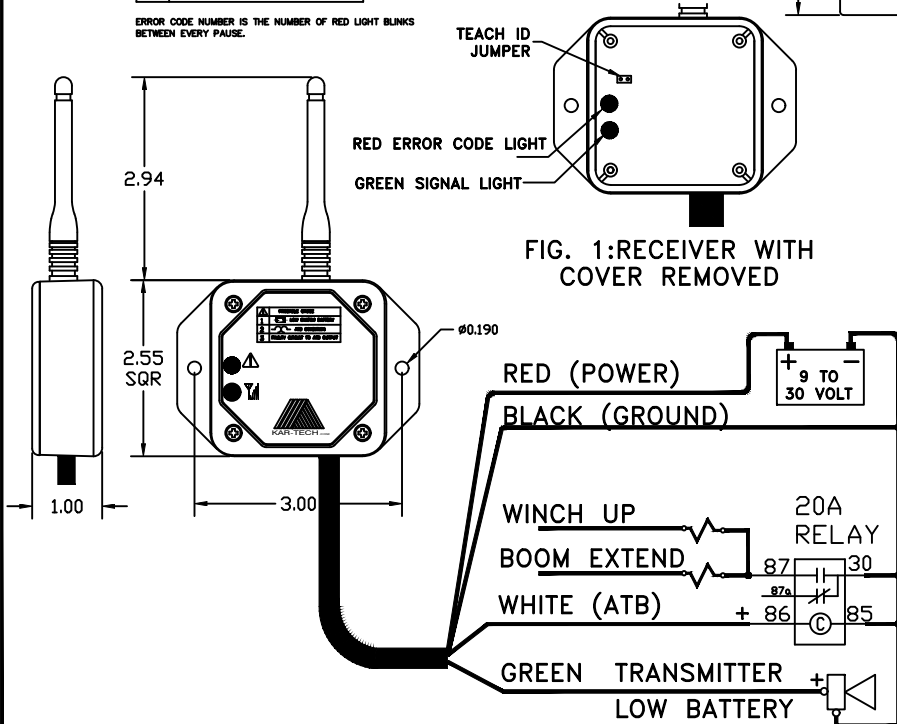


FIG. 1: RECEIVER WITH COVER REMOVED

ATB RECEIVER

INSTALLATION

- Mount the transmitter on top of the boom. Do not cover or shield the transmitter with any metal which may reduce RF range.
 - Remove cover
 - Remove battery connector
 - Install base on crane using 8-32 screws
 - Reconnect battery connection
 - Replace cover
 - Connect the ATB transmitter Green and white wire to ATB switch N.O. and COM. (FIG. 1) per above
- Mount the receiver and connect the wiring as shown
 - The ATB output can be connected directly to the ATB input on any Kar-Tech systems, or through a relay for a non-Kar-Tech system - see diagram
 - The LOW TRANSMITTER BATTERY output should be connected to an alarm or light

OPERATION

- Under normal conditions, the receiver ATB (white wire) output is ON (short to power). When the ATB condition is present, ATB switch opens, the ATB output will turn OFF
 - TRANSMITTER:
 - Green blinking fast - normal condition
 - Green blinking slow - receiver is off
 - Green off - ATB condition present
 - RECEIVER:
 - Green blinking fast - normal condition
 - Green off - ATB or fault condition - see red LED
 - Red blinking - ATB or fault condition - count blinks and check receiver decal
 - 1 blink - transmitter battery is below 2.5V and must be replaced
 - 2 blinks - ATB condition
 - 3 blinks - ATB output shorted or open

SYNCHRONIZING TRANSMITTER AND RECEIVER

There are over 64000 different addresses (ID codes) available for each transmitter and receiver pair. Each transmitter and receiver pair is synchronized together at the factory. If a new transmitter is needed, synchronizing is required. Refer to Figure 1 and use the following procedure:

- Remove transmitter and receiver cover
- Apply power to the receiver and be sure the batteries are installed in the transmitter
- In the receiver (FIG. 2), place the jumper across the TEACH ID pins wait for 5 seconds. At this point the red and green LEDs will toggle. Remove the jumper and place it on one pin
- Close the ATB switch (i.e. twist the WHITE and BLACK wires together).
- In the transmitter (FIG. 1), place the jumper across the TEACH ID pins wait for 5 seconds. At this point the green LED will turn on steady. Remove the jumper and place it on one pin
- Wait until the green and red LEDs stop toggling on the receiver
- Open the ATB switch (i.e. untwist the WHITE and GREEN wires)
- Teach complete

SPECIFICATIONS

RF: 900 MHz FHSS 10 mW
 Temperature: Operation: -40 to +85°C Storage: -55 to 100°C
 Output Rating: 5A maximum each (sourcing) 20A system maximum
 Battery Life:
 700 hours of crane operation
 3,500 hours with switch close and receiver off
 3 years with switch open.

Encapsulated electronics inside ATB transmitter and receiver

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TITLE	IMPLIED TOLERANCE				
WIRELESS ATB W/EXTERNAL SWITCH KIT	XX				
	XXX				
	XXXX				
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