

FIG. 1: TRANSMITTER INSIDE COVER

WIRED ATB SWITCH TRANSMITTER (P/N: 3A108CA)

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.

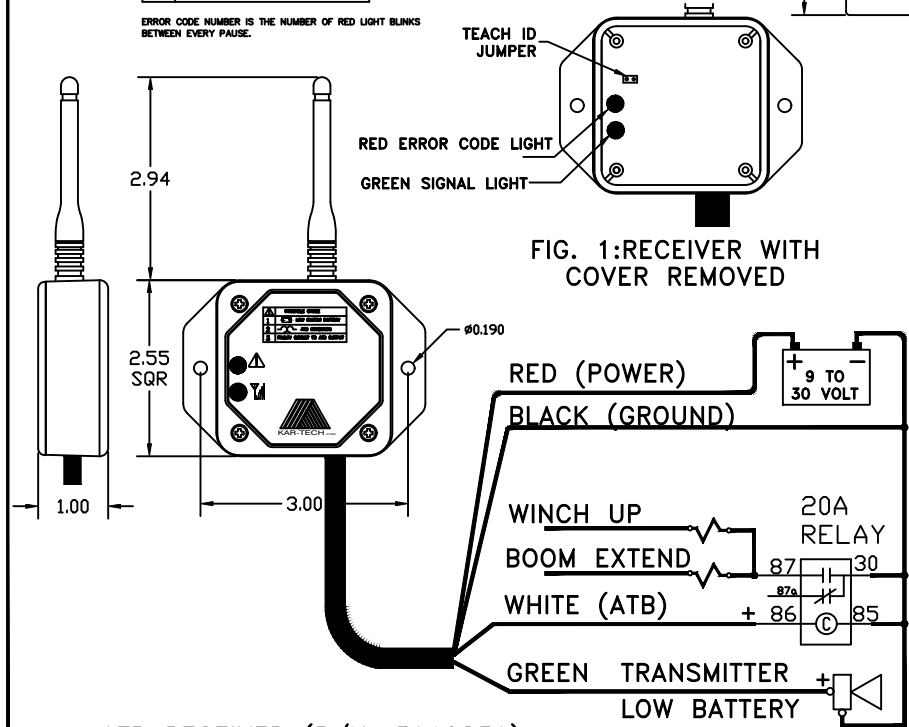


FIG. 1: RECEIVER WITH COVER REMOVED

ATB RECEIVER (P/N: 3A1083A)

**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

REL	CHK	DATE	RELEASED	TITLE	IMPLIED TOLERANCE
		02-23-09		WIRELESS ATB W/EXTERNAL SWITCH KIT	XX ± .1
					XXX ± .06
					XXXX ± .05
					FRACTIONAL ± 1/8
					ANGULAR ± .05 deg
DO NOT SCALE PRINT				SCALE	DRAWING NO.
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