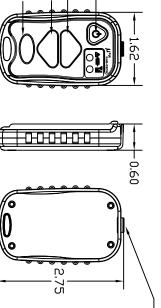
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Kar-Tech will void the user's authority to operate the equipment.

Micro USB charger port.



OUTPUT 1

OUTPUT 2

OUTPUT 3

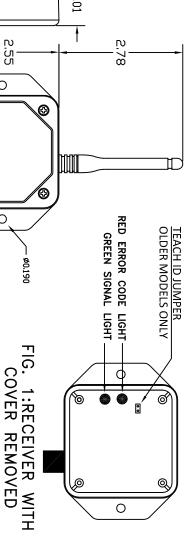
P/N: 3A2036D

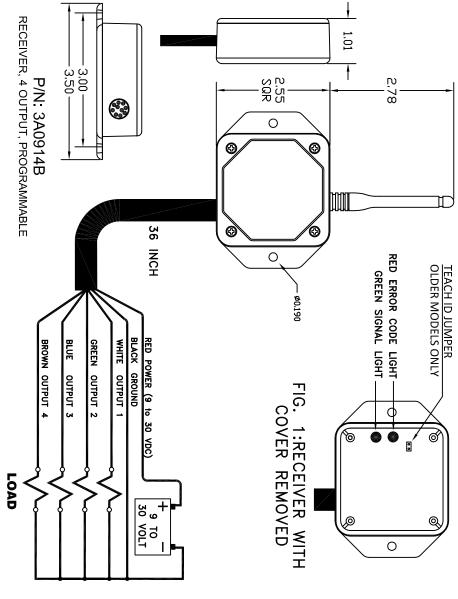
only use approved chargers:
Micro wall charger/110-240VAC (B20172A)
Micro car charger/ 12-24VDC (B20173A) than 5 lb. of force USB charger plug. Do not insert with more Check orientation before inserting Micro

TRANSMITTER, MICRO, 3 BUTTON

ERROR CODES

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.	ERROR	ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.	ERROR (1 3A0914B RECIVER
-	5 FAULTY CIRCUIT TO OUTPUT 4	5 FAULTY CIRCUIT TO OUTPUT 4	5	1 3A2036D TRANSMITTER
FAULTY CIRCUIT TO OUTPUT 3	4	FAULTY CIRCUIT TO OUTPUT 3	4	INCLUDING:
3 FAULTY CIRCUIT TO OUTPUT 2	3	FAULTY CIRCUIT TO OUTPUT 2	3	KIT, MICRO PROGRAMMABLE, 3 FUNCTION
2 FAULTY CIRCUIT TO OUTPUT 1	2	2 FAULTY CIRCUIT TO OUTPUT 1	2	P/N: 3A2037D
LOW BATTER	Ь	RF COMMUNICATION PROBLEM	1	
PROBABLE CAUSE	ERROR CODE	PROBABLE CAUSE	CODE	
ιŞ	TRANSMITTER ERROR CODE CHART	RECEIVER ERROR CODE CHART	RECE	





load diagnostics. For unused outputs or high input impedance applications like a PLC, add a 1K resistor (P/N: 210-003-1001) to ground for each. This will eliminate the error code and leakage voltage NOTE: The output control circuit is designed with open

OPERATION:

Press and hold the power button on the transmitter until both LEDs turn on, then release. The green LED will flash rapidly when communication has been established with the receiver. The LED flashes slowly if the receiver is off or there is no communication between the transmitter and receiver. Turn the receiver on and press the corresponding buttons on the transmitter keypad to turn on and off each

lug the charging connector into the port at the top of the transmitter. Observe orientation and do not use force. A solid red LED indicates battery is charging. Once the internal battery is fully charged, the red LED

The transmitter has two LED indicators, the red **BATTERY/DIAGNOSTIC** indicator and the green **TRANSMIT**

INDICATOR LIGHTS: vill turn off and the green LED will turn on. A fully discharged unit will take up to 3 hours to recharge. Use only approved chargers.

The green TRANSMIT indica tlasnes rapidly whenever

receiver is on, count the number of blinks and refer to the ERROR CODE CHART tables for additional inform Note: The red LED will stay on while charging and when the charge is completed the green LED will stay on.

The red BATTERY/DIAGNOSTIC indicator starts blinking once every second when the battery voltage is low and requires charging. It also blinks when there is a problem with the system in the form of an error code. Refer to the ERROR CODE CHART tables for more information. Note: To check for low battery, turn the receiver off and leave the transmitter on. If the transmitter red LED continues to blink, the battery is low and requires charging, if the red LED blinks only when the

Vote: It will take longer to charge if the transmitter is on during charging.

To synchronize a new transmitter and receiver together, use the following procedure: TEACH ID CODE:

2. To get the transmitter into TEACH ID mode, press and hold the POWER button for 10 seconds. Both LEDs start blinking. I um both transmitter and receiver off

Turn on the receiver

Teach complete On older models, Place a jumper across the TEACH ID jumper inside the receiver. The green LED will go from blinking to steady. Remove the jumper and store it on one pin

CLONING TRANSMITTERS

WARNING! - ONLY ONE TRANSMITTER CAN BE ON AT A TIME, THEY CANNOT BE USED SIMULTANEOUSLY - use with CAUTION! Occasionally, it is desirable to have more than one transmitter work with a single receiver. This is accomplished by a process called cloning. Cloning allows an additional transmitter (B) to have the same ID code as the original transmitter (A). If this feature is desired, use the following procedure:

- On Transmitter A, press and hold POWER buttons for more than 10 seconds until both LEDs start blinking then release POWER button.
 On Transmitter B, press and hold buttons 1, 2 and POWER button simultaneously until both LEDs start toggling then release buttons.
 Wait for ~1 seconds until both LEDs stop blinking on both units.
 Cloning complete

1. Make sure both transmitters and the receiver are of

- If the cloning feature has been invoked and is no longer desired, the ID code of one of the transmitters needs to be changed. This will unclone the transmitters. If
- this is desired, use the following procedure:
- Make sure the receiver and transmitter are OFF
 Press and hold buttons 1, 2, 3 and POWER simultaneously until both LEDs start toggling then release buttons
- 3. Press any button again to select a new ID

5. Follow the SYNCHRONIZING TRANSMITTER AND RECEIVER procedure above to link the uncloned transmitter to a new receiver uncloning complete

OUTPUT CONFIGURATION PROGRAMMING:An eight button (P/N: 3A2032B) or a five button (P/N: 3A2033B) transmitter is required to perfrom the following procedure.

- Turn the receiver off. Turn the transmitter on (press and hold POWER until both LEDs turn on, then
- 3. Turn the receiver on. Be sure all outputs are connected to a load and that there are no error codes present (NOTE: outputs may cycle on and off while programming) Press and hold 1, 4, and 5 and release. Red LED should be blinking on the transmitter
- 4. Are any outputs to be latched (push on/push off)? If yes, continue. If no, skip to step 6
- 6. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance 5. One at a time, press and hold each button 1-4 corresponding to output 1-4 that is to be latched, until the green LED goes on, then off
- 7. Are any outputs to be disabled (no output and no error code)? If yes, continue, if no, skip to step 9
- 8. One at a time, press and hold each button 1-4 corresponding to output 1-4 that is to be disabled, until the green LED goes on, then off

- Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
 Is it desired to use the pump or e-stop functionality (see descriptions below)? If yes, continue, if no, To engage the pump functionality, press button 1 until the green LED goes on, then off. Alternation skip to step 15 ely, to engage the e-stop functionality, press button 2 until the green LED goes on, then off
- 13. If e-stop functionality was chosen, skip to step 16. If pump functionality was chosen, continue 12. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
- One at a time, press and hold each button 1-3 corresponding to output 1-3 that is to be associated with the pump output, until the green LED goes on, then off
 Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
 Turn receiver off, then on again. Programming complete

When using Pump or E-Stop functionality, do not disable output 4

- 2. Pump functionality: output 4 will turn on with any outputs that have been associated with it
- 3. E-stop functionality: output 4 will be on as long as the transmitter is on. If the transmitter is turned Turn the transmitter back on and re-engage outputs to continue off, POWER is pressed, or it goes out of range, output 4 will go off along with all latched outputs.
- 4. If pump or e-stop functionality is chosen, output 4 will be used for this. Button 4 on the transmitter 5. If 4 blinks after each sequence is not seen as described above, the programming was not accepted will then have no function. A maximum of 3 outputs can be controlled with the transmitter buttons for that section. Start from the beginning and go slowly. Keep a distance of 2-3 feet from the

TRANSMITTER SLEEP TIME PROGRAMING

The transmitter is factory set to turn off (sleep) after 15 minutes. To change the time the transmitter waits before going to sleep, use the following procedure: Press and hold buttons 2, 3, and POWER simultaneously

- Next, press one of the following buttons to adjust the sleep time: Release the buttons. At this point, both lights will blink once per second
- Button 2 = 30 minButton 1 = 15 min
- Button 3 = 1 hr
- Sleep time programming complete

SPECIFICATIONS:

RF Transmit power (EIRP): 10 mW RF Frequency: 902-928 MHz

Power: Rechargeable 3.7V Lithium Polymer battery Operation time with full charge: 30 to 40 hours continuous

Power: 9 to 30 Volts DC Outputs: 5A max each (20A system max)

Transmitter: -20C to +60C Receiver: -40C to +85C Vibration: 3G to 200Hz

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