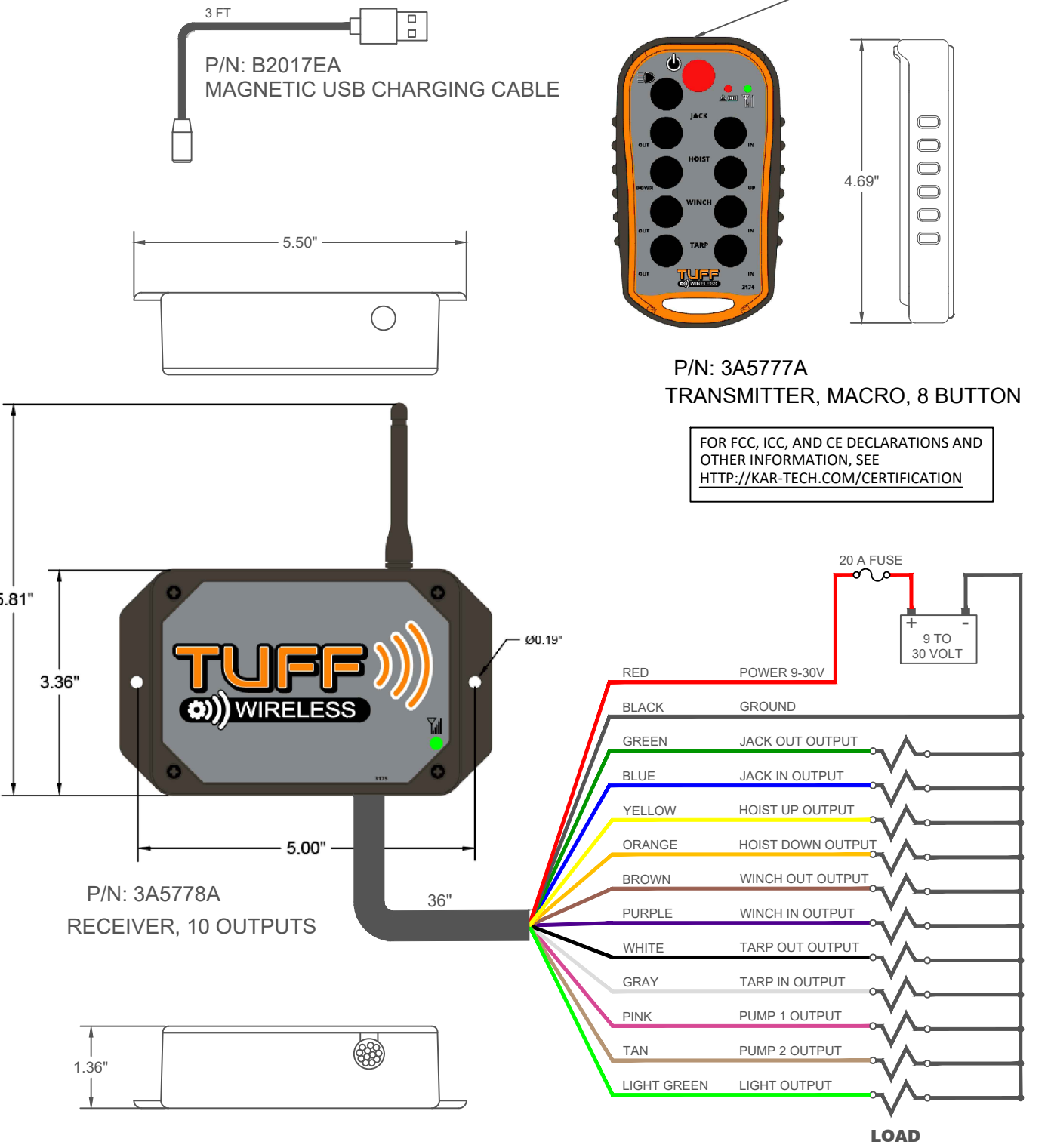


SALES KIT 3A577AA
CONTAINS
1x 3A5777A MACRO TRANSMITTER
1x 3A5778A RECEIVER
1x 036-001-0577 LANYARD



OPERATION

- To turn on the transmitter, Press and hold the POWER button for at least 2 seconds until both red and green LEDs turn on then release.
- The transmitter is designed with a power saving feature which turns the transmitter off after 15 minutes if no buttons are pressed, regardless of receiver status.
- PUMP 1 output comes on along with the JACK functions.
- PUMP 2 output comes on along with the HOIST functions.
- There are red and green LEDs on the front of the transmitter and a green LED on the receiver front. The green LED will blink 2 times per second when the transmitter and receiver are communicating. It will blink 1 time per second if there is no communication (i.e. - no power to the receiver)
- The transmitter's red LED blinks 1 time per second if the battery is low and needs to be charged.
 - The red LED will stay on while charging and when the charge is completed the green LED will stay on.
 - It will take longer to charge if the transmitter is on during charging.
- Transmitters' and receivers' green LEDs will turn on solid for 1 second at power up

SYNCHRONIZING TRANSMITTER AND RECEIVER

Each transmitter and receiver pair is synchronized together at the factory. If a new transmitter is needed, synchronizing is required. Use the following procedure:

1. Turn both transmitter and receiver off
2. With the transmitter off, press and hold the POWER button for more than 10 seconds. LEDs start blinking.
3. Turn on the receiver
4. Wait for a few seconds until just the green LED begins to blink rapidly on the transmitter
5. Teach complete

SLEEP TIME

All transmitters have the ability to change the sleep time from the default to user's preference. The transmitter is factory set to turn off (sleep) after 15 minutes when no buttons are pressed. To change the time the transmitter waits before going to sleep, use the following procedure:

1. With the transmitter off, press and hold buttons TARP OUT, TARP IN, and POWER.
2. Release the buttons. At this point, both lights will blink once per second
3. On the transmitter, press one of the following buttons to adjust the sleep time:
 - a. JACK OUT = 15 minutes
 - b. JACK IN = 30 minutes
 - c. HOIST DOWN = 60 minutes
 - d. HOIST UP = 120 minutes
 - e. WINCH OUT = sleep disabled
4. Sleep time programming complete

OUTPUT PROGRAMMING

The user has the ability to program the receiver as desired for activating PUMP 2 output. By default the receiver is programmed to be in POWER DOWN mode (PUMP 2 turns on with HOIST UP AND HOIST DOWN). To program it to be in GRAVITY DOWN mode (PUMP 2 only turns on with HOIST UP) follow this procedure:

1. Make sure receiver is off and transmitter is on
2. Press and hold HOIST UP and HOIST DOWN buttons for five seconds until the red LED starts to blink. Release the buttons.
3. Apply power to the receiver
4. Press HOIST DOWN button for Gravity Down or press HOIST UP button for Power Down. The receiver's green LED will turn on solid for three seconds when programming is complete and accepted.
5. Programming complete

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:

1. Make sure both transmitters and the receiver are off
2. On Transmitter A, press and hold the POWER button for 10 seconds until LEDs blink, then release. Green and red LEDs will blink together at this point
3. On Transmitter B, press and hold buttons WINCH IN, TARP IN, and POWER simultaneously until both LEDs start to blink
4. Wait for few seconds until the green LED starts to blink on transmitter A and transmitter B.
5. Turn both of the transmitters off
6. Synchronize one of the transmitters to the receiver using SYNCHRONIZING TRANSMITTER AND RECEIVER instructions above

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:

1. Make sure the receiver and transmitter are OFF
2. Press and hold buttons JACK OUT, JACK IN, HOIST DOWN, and POWER buttons simultaneously until both LEDs start toggling then release
3. Press any button again to select a new ID
4. Uncloning complete. Follow the SYNCHRONIZING TRANSMITTER AND RECEIVER procedure above to link the uncloned transmitter to a new receiver

SPECIFICATIONS

- RF: 2.4GHz FHSS 100mW
- Temperature: Receiver: -40 to +85°C Transmitter: -20 to 60°C
- Output Rating: 5A each (sourcing) 20A system maximum
 - LIGHT OUTPUT: 16A RELAY
- Encapsulated electronics inside receiver
- Transmitter Power: 3.7V LiPo rechargeable battery
- Battery life: 30-40 hours continuous
- Receiver Power: 9-30V DC, 14mA current draw at 12V

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.

CONNECT PUMP 1 AND PUMP 2 OUTPUTS FOR USE
WITH 4 BUTTON HYDRO PUMP

