

## EZPull Trap Model TVR-WP145 Setup Guide

**EZPull** Trap remote Model TVR-WP145 is a voice activated, wireless clay target release system for Trap. EZPull Trap has special setup and pairing modes intended only for the Gun Club's administrator. In order to prevent accidental access to setup modes, the unit needs to power up and detect one of the keys is pressed. This is done by opening the battery compartment, removing one of the batteries, pressing and holding a key and then replacing the battery.



**Notice:** Model TVR-WP145 is highly water resistant. To prevent water from entering the battery compartment, before opening the battery door's screw, make sure the unit is completely dry!



*Orientation during setup*

**Warning:** Always stand clear of the trap machine!

1. Using Setup Modes: Setup modes provides access to parameters that determine the operation of the device. Each setup mode is determined by the key held pressed when the unit powers up:
  - Radio code: Press the "Target" [🎯] key.
  - Voice sensitivity: Press the "Microphone" [🎤] key.
  - Pairing Mode: Press the "ON/OFF" [🔌] key.
- 1.1. Enter Setup Mode: Remove the battery door. Remove one battery. Press and hold the key for the desired setup mode and replace the battery while looking at the LEDs on the front. When both lights flash, release the key. The lights will alternate slowly indicating the unit is in Setup mode. While setting up, hold the device horizontally as shown in the picture.
- 1.2. Exit Setup Mode: When in Setup mode, simultaneously press and hold the "Target" [🎯] and "Microphone" [🎤] keys. Both lights will turn on steady. Release the keys. Unit will go to power down mode. Press the "ON/OFF" [🔌] key to turn ON.
- 1.3. Access Setup Adjustment: Simultaneously pressing and holding the [🔌] key in combination with another key, will result in both lights flashing rapidly. Keep holding the keys until both lights are turned off. Then release the keys. The setup parameter's current numeric value will be indicated by the LEDs.
- 1.4. Understanding the numbering indicators:
  - 1.4.1. Each parameter can be set to numbers in the range 1 to a maximum value specific to the parameter but never more than 16.
  - 1.4.2. The left LED indicates the "tens" digit.
  - 1.4.3. The right LED blinks the number of times corresponding to the "ones" digit.

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- 1.4.4. Examples:
  - Number **06**: left light is **off**; right light blinks **6** times.
  - Number **14**: left light is **on**; right light blinks **4** times.
- 1.5. Adjusting the Number:
  - 1.5.1. Increase: for the next value, press and quickly release the "Microphone" [🎤] key. The operation is cyclical, after you reach the maximum value, the next number is #1.
  - 1.5.2. Decrease: for the previous value, press and quickly release the "Target" [🎯] key. The operation is cyclical, after you reach #1, the next number is the maximum value.
  - 1.5.3. Verify: After each key press, observe the lights to verify the number.
- 1.6. Exit adjustment: Once you verify the correct value, press the "ON/OFF" [🔌] key to save and return to setup mode.
2. Radio code setup: The remote microphone units and base station on each Trap field must be set on the same unique radio code. The radio code is made of two numbers:
  - RCAD: The RCAD number is a common radio address for all the EZPull systems on the same venue. If you have less than 16 Trap fields you do not need to change this address.
  - RCCH: The RCCH number is the radio channel for communicating between all units and base station on the same trap field.Set the same code on all the EZPull remote units on the Trap field to match the Puller's remote and Base Station or TargetManager card reader.
  - 2.1. Follow section 1 above to enter and work in Radio Code setup mode. Before replacing the battery, press and hold the "Target" [🎯] key.
  - 2.2. Changing the RCAD: simultaneously press and hold the [🔌] + [🎯] keys until lights stop flashing. Use the [🎤] or [🎯] keys to set the RCAD to any number in the range 1 to 14. Press the [🔌] key to save and exit.
  - 2.3. Changing the RCCH: simultaneously press and hold the [🔌] + [🎤] keys until lights stop flashing. Use the [🎤] or [🎯] keys to set the RCCH to any number in the range 1 to 16. Press the [🔌] key to save and exit.
  - 2.4. To exit: Simultaneously press and hold the "Target" [🎯] and "Microphone" [🎤] keys. Both lights will turn on steady. Release the keys.
3. Voice sensitivity setup: This parameter adjusts the sensitivity to voice. Higher numbers are more sensitive. A typical value is in the range 4 to 5.
  - 3.1. Follow section 1 above to enter and work in voice sensitivity setup mode. Before replacing the battery, press and hold the "Microphone" [🎤] key.
  - 3.2. Once the lights start alternating, simultaneously press and hold the [🔌] + [🎤] keys until lights stop flashing. Use the [🎤] or [🎯] keys to set the sensitivity to any number in the range 1 to 5.
    - 3.2.1. For high sensitivity, set to 5. The down side is the unit will also be sensitive to noise and may throw targets on any speech sound.
    - 3.2.2. For average sensitivity, set to 4. This will reduce sensitivity to noise. This is the recommended value for use with TargetManager.
    - 3.2.3. Set to 2-3 in very noisy environment including gunshots echoes from nearby fields. Shooter will need to call loud and long "Pull".
  - 3.3. Press the [🔌] key to save and return to setup mode.
  - 3.4. To exit: Simultaneously press and hold the "Target" [🎯] and "Microphone" [🎤] keys. Both lights will turn on steady. Release the keys.

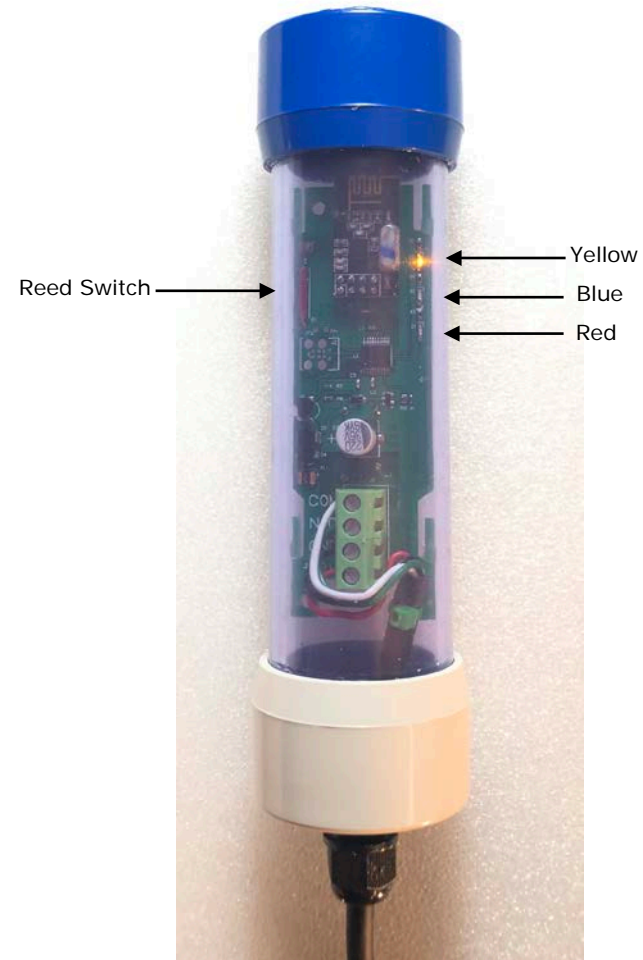
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### 4. Pairing the TVR-WP145 with a Base Station:

- 4.1. Turn off all the remote units.
- 4.2. Disconnect the Base unit from the Trap or any high voltage source.  
**Warning:** working while high voltage source is connected, can be hazardous and may result in serious injury.
- 4.3. Set the Base Station in pairing mode.
  - 4.3.1. Place a small magnet next to the magnetic switch (looks like a red bar) on the left side of the base station.
- 4.4. The Red LED will blink for 2 seconds, then the Yellow LED will blink rapidly and then both lights will glow steady. Remove the magnet at once. Both Red and Yellow LEDs will flash indicating the base station is waiting for a Pairing call from the remote.
- 4.5. Set one of the remote units in Pairing Mode:  
Remove the rubber boot. Remove the battery door. Remove one battery.  
Press and hold the On/Off key [⏻] and replace the battery. Both lights should flash. Release the key. Observe the LED indicators on the base station and release the key.
- 4.6. If Pairing is successful you will see the following light flashing sequence on the base station: Blue, Red, and Yellow followed by slow flashing of the Yellow LED indicating normal operation mode.
- 4.7. Following a successful pairing, the remote unit should be in sleep mode (no lights). If lights are still flashing, remove one battery, press any key and replace the battery.
- 4.8. Verify pairing: Press and release the [⏻] on the remote. Observe the lights on the base station. Press and release the "Target" [🎯] key. The Blue light on the base station should turn on momentarily.



5. Pairing the TVR-WP145 with The TargetManager card reader:  
Check the radio code on the TargetManager and follow instruction in section 2 above to set each voice release remote on the same radio code.