TEE SENTRY®

OPERATION & INSTALLATION MANUAL

42519 Wireless Tee Sentry

42520 Hardwire Tee Sentry

Equipment List

- Main Control Unit with 6’ power cable
- Red pushbutton box
- Green pushbutton box
- Sign for hitting area
- Sign for landing Area
- Additional Accessories as Ordered

Thank you for your purchase of the Tee Sentry from Reliable Golf Supplies. If you have any questions about this product or need technical assistance please call us at 1-800-274-6815.

Standard Tee Sentry Operation

The Standard Tee Sentry uses two remote buttons to control the red and green LED lights in the main control unit. The red button is usually located at the tee-off or initial blind shot area and turns the red LEDS on and the green LEDS off. The green button is placed in the landing area and turns the green LEDS on and the red LEDS off. Additional remote buttons can be added with the possibility to have up to a total of four remote buttons per main unit when using the standard receiver.

Red Button - Prior to hitting a blind tee or fairway shot that is protected by the Tee Sentry make sure to check the LED lights on the main unit. IF THE RED LEDS ARE ILLUMINATED, STOP! THE PREVIOUS PARTY HAS NOT LEFT THE LANDING AREA AND IT IS NOT SAFE TO HIT. If the GREEN LEDS are illuminated this indicates a clear landing area. After all members of the party have hit their shot, push the red button and this will turn the GREEN LEDS off and illuminate the RED LEDS in the main control unit. You may then proceed to the landing area.

Green Button - After the last member of the party has hit their next shot and has left the landing area push the green button in the landing area. This will switch the Red LEDS in the main control unit off and turn the green LEDS on indicating to the next party that it is okay to proceed with their shots. The red LED indicators in the main unit will automatically switch back to green after an adjustable pre-set time limit even if the green button is not pushed. This setting can be adjusted from 1 minute to 15 minutes of duration in 30 second increments. Fig 1 has a diagram to show these adjustments.

Tee Sentry Installation

In addition to the items supplied with your Tee Sentry the following additional items will be needed: mounting posts and fasteners in the desired locations for the remote pushbutton boxes, signs, and main control unit. A 12 volt battery or 110 VAC to 12 VDC power supply to power the main unit is also required.

Cable to connect the remote green pushbutton to the main control unit will also be needed if you have purchased the hardwire version of the Tee Sentry. The hardwired main control unit and green pushbutton box are delivered with 6’ pigtails to splice in a junction box or direct connection to your connecting cable. In all cases preserve the water tightness of the provided junction boxes and or connections and utilize the watertight strain relief connectors where provided. We recommend the use of a 2 conductor 18 gauge outdoor rated direct burial grade cable for this purpose.

1. Mount the main unit to a post in a location that is a safe distance away yet visible to the players making the “blind shot”. The red and green LEDS can easily be seen from 100 feet away.

2. Mount the remote red pushbutton box and included sign in a location that will be convenient to the players to use after making their shot.

3. Mount the remote green pushbutton box and included sign in a location that will be easy for players to push as they exit the landing area. If you ordered the hardwire version you must complete the cable connection from the 6' green pushbutton box pigtail to the interconnect cable from the main control unit 6' pigtail. Polarity does not matter.

4. Connect the main unit to a 12 volt DC power source. Attach any ordered accessories such as a solar charger panel if applicable to the battery as well. Respect polarity when making any power connections.

5. On power up the Tee Sentry will default to showing the green LEDS. Test the installation by pressing the red button and making sure the main unit changes to showing the red LEDS. Make sure the signal from the green remote button is being received by testing it as well. In some instances a remote button may need to be relocated due to localized interference or blocking of the radio signal by terrain and or objects in the vicinity. Please relocate as needed to ensure optimum reception.

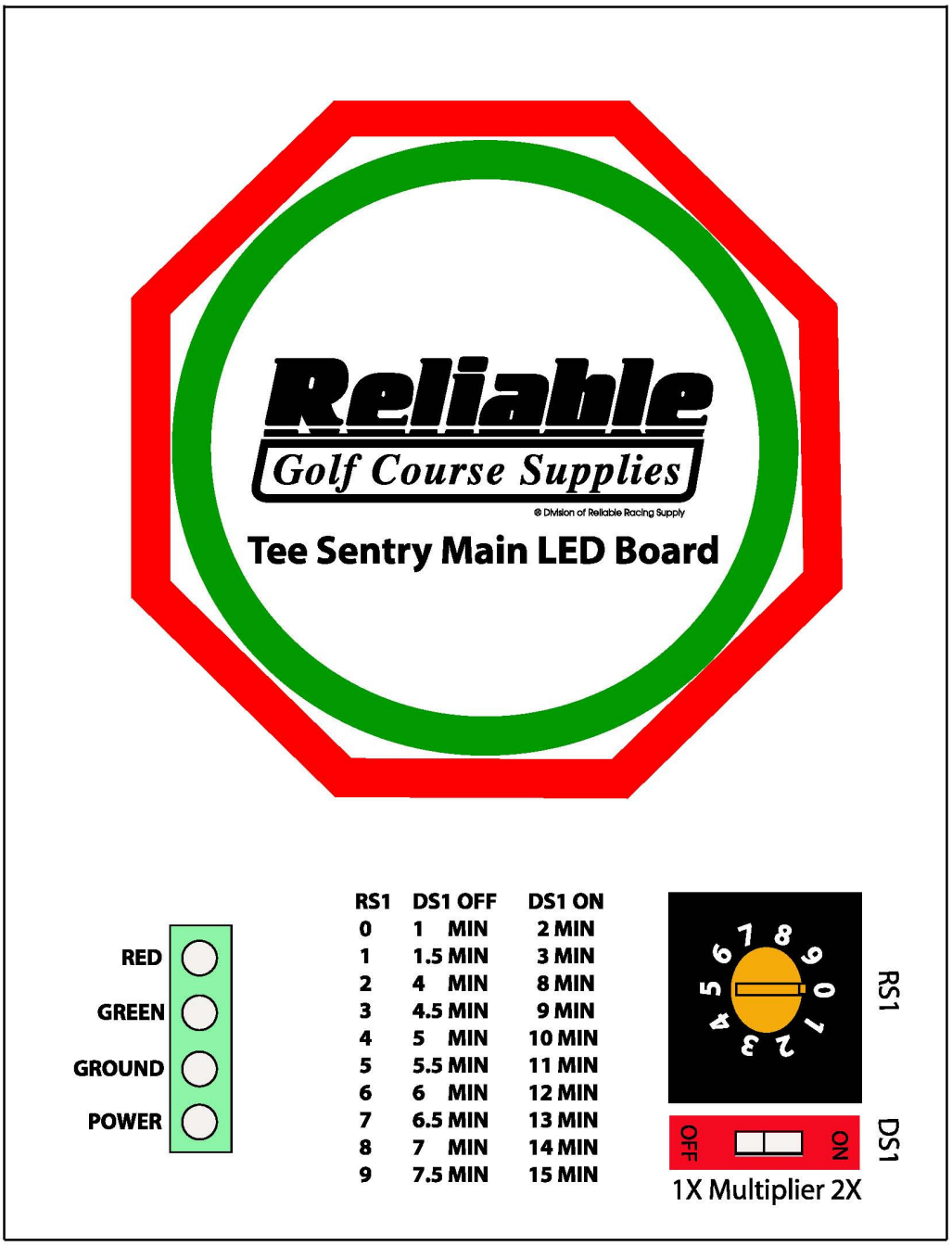
6. The Tee Sentry comes with a selectable time out function which will automatically reset the main control unit to green even if the green button is not used. It is delivered pre-set to 9 minutes and can easily be changed by utilizing the rotary switch and slide switch on the main circuit board. Fig 1 of this manual has a diagram to show these adjustments. This information can also be found on the LED circuit board itself inside the main unit of the Tee Sentry.

7. Test all functions and the time out duration after initial power up. Your Tee Sentry is now ready for use.

Technical Specifications:

- Main Control Unit – 12VDC Bat. Or 1 Amp Regulated Power Supply.
- Wireless Pushbuttons – 3.0 V Lithium (approx. 3-4 yr. life)
- Radio Frequency (Wireless Model) - Spread Spectrum 902-928 MHz (USA)
- Radio Receiver Current Consumption – 135-400mA
- LED Board Current Consumption – green - 220 mA, red - 140 mA
- Operating Environment - 0 C to 60 C (32 – 140F)
- Main Unit – Outdoor Fiberglass NEMA 8 X 6 X 4 Enclosure
- Pushbutton – 4 X 4 X 2 PVC Junction Box

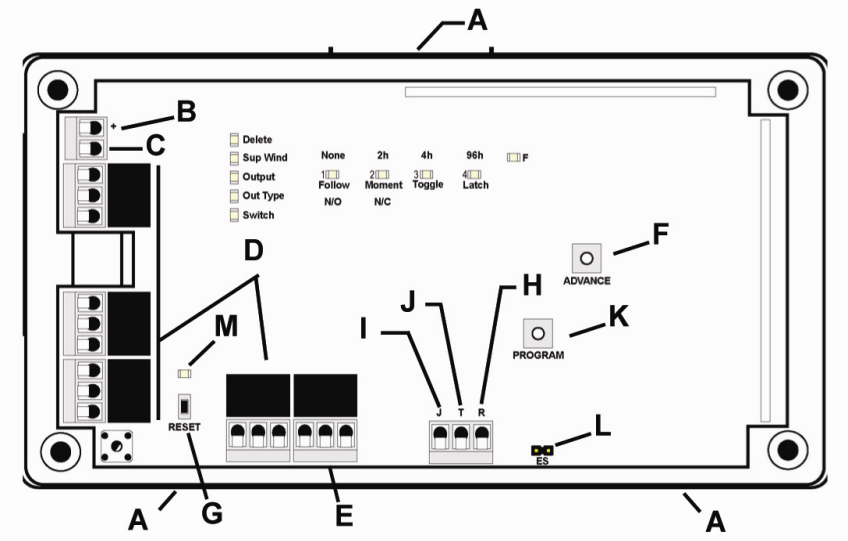
Tee Sentry Main Board Figure 1



The red and green terminals are connected to the appropriate output of the wireless receiver or directly connected by wire to the red and green buttons. The power connection is used to power the wireless receiver unit if present in the main unit as well. Ground is common to all connections.

Note: The Wireless Receiver and Transmitter are used in the Wireless Version of the Tee Sentry and are not included in the Hardwire Version.

Wireless Receiver / Main Unit Figure 2

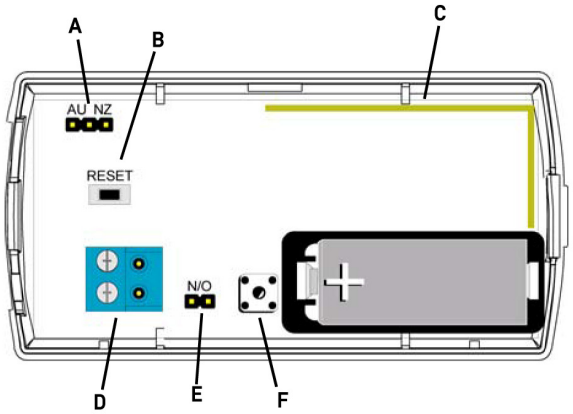


Components

A. Housing Release Tabs
B. Power + (11-14 VDC)
C. GND Connection (-)
D. Output Terminals
E. Fault Output
F. Frequency Selection Pins
G. Reset Button
H. Reset Input
I. Jam output
J. Tamper Output
K. Program Button

The power and ground connections are shared with the main LED board. Up to four wireless transmitters can be assigned to one receiver. The outputs are assigned to the corresponding remote buttons to change the LEDs from green to red and from red to green. These outputs are wired to the corresponding connection on the main LED board. The fault, rest, jam, and tamper connections are not used. The frequency is preset to USA (902-928 MHZ) and should not be changed. The reset, program, and advance buttons are used when assigning transmitters to the receiver.

Wireless Transmitter / Remote Button Figure 3



Components

A. Frequency Selection Pins
B. Reset Button
C. Antenna
D. Input Terminal (Red or Green Button Connection)
E. N/O – N/C Selection Pins
F. Tamper Button and Spring

The transmitter comes preset to USA frequency (902-928 MHZ) and normally open contact. To replace the battery use your thumb to depress the housing release tab on the bottom of the transmitter; separate the housing. Use the hole in the back of the housing to push out the old battery if necessary. Install the new battery observing the correct polarity. Press the rest button to initialize the transmitter. Use a 3.0 Volt CR123A lithium battery or the equivalent for replacement. (3-4 year life)