

Target Impact Signal System Wireless Flash Trigger

Introduction

The Target Impact Signal System Wireless Flash Trigger is a powerful yet durable device to command external flashes wirelessly. Target Impact Signal System Wireless Flash Trigger consists of a transmitter with the motion sensor imbedded in its housing, and a receiver. The transmitter is to be attached to the non-impact side of your steel target. When the target is struck by your bullet the transmitter is activated, it emits a radio signal to the receiver that will work with any Target Impact Signal System strobe. A single transmitter can control as many receivers/strobes if you wish.

Each Target Impact Signal System Wireless Flash Trigger has four selectable channels and advanced anti-interference features that allow the device to work within the effective area without interference by other channels. Interference from the environment is still inevitable, try moving the receiver and the misfiring problem should be resolved. If the firing persists, switch to a different channel, on both the transmitter and the receiver.

Set Up

1. Assembly of the Transmitter

Place a small piece of tape, either masking or Magic, over the TEST button. This will keep you from having to chase down the TEST button after the transmitter is opened. Open up the transmitter unit by removing a single machine screw, using a "0" tip Phillips screw driver. (This is a very small screw, 0-80 x 5/16, set the screw aside in a safe place.) Slide the top cover of the transmitter up, and toward the rear, exposing the internal circuit board. Insert the A23 12v battery, between the battery contacts. Positive "+" end of the battery to the positive contact, "+" printed on circuit board. (Be sure to check the battery voltage, it should be above 11.6 volts. If it is below replace with a new battery, dispose properly. The cost to replace the battery will be less than the rounds you will shoot when you at the range.)

Replace the top cover, the cover hooks into the bottom, once the top cover is in position, replace the screw. Do not over tighten the screw. Remove the small piece of tape. (Everything is plastic, and is easily striped.)

2. Installation of Transmitter.

Select a place on the non-impact side of your target, roughly in the center of mass of your steel target. Be sure the area you have selected will not interfere with any of your targets support system. Use isopropyl alcohol (IPA) to remove all grease and grime, be sure the mounting area is dry before mounting the insulated shoe. Do Not Mount the Insulated Shoe if the temperature is below 50°F (10°C). Remove the "Red" protective liner from the insulated shoe, firmly press the adhesive side to the back of your target; this should be done 72 hours before your planned use of the system. The Transmitter should be roughly in the center of mass of your target.

3. Be sure your steel target has the appropriate thickness and hardness for the type and velocity of the ammunition you will be using so that your shots do not flex or go through target. Equu-Pulse Company/Spencer Instrumentation, Inc. recommends the use of 3/8 inch thick minimum, 500 Brinell hardness plate or 3/8 inch thick minimum, AR500. Target Impact Signal System/Spencer Instrumentation, Inc. highly recommends that you do not use mild steel targets.
4. Assembly of the Receiver

Remove the back cover of the receiver; insert the CR2 3v battery between the batter contacts. Outline of the battery is printed on the circuit board. (Be sure to check the battery voltage, it should be above 2.5 volts. If it is below replace with a new battery, dispose properly. The cost to replace the battery will be less than the rounds you will shoot when you at the range.) This is a good time to check the channel that the receiver and the transmitter are set the same. There is a pair of "Dip Switches" that is next to the battery, compare the positions of the switches, to the switches that are on bottom of the transmitter. Both sets of switches should be in identical positions.

Replace the back cover of the receiver. Word "OPEN" needs to be at the bottom for the cover to fit properly.

Install the Mini Flexi Pod to the bottom of the receiver, turn clock-wise to tighten, counter clockwise to loosen.

Remove the accessory shoe from the bottom of the flash unit. Now slide the flash unit into the top of the receiver, and lock into position.

5. Using your Target Impact Signal System Wireless Flash Trigger system.

At the Range

NOTE! Your Target Impact Signal System Wireless Flash Trigger Signal unit is **NOT WATERPROOF**; using this product in **wet** conditions may **VOID** the **WARRANTY**. Please see the documentation for Soda Bottle Umbrella, drawing number 001-TISS-SK. It is not recommended to leave any of your Target Impact Signal System products, in the field, or in the POWER on position overnight.

Set your target at the desired distance.

Attach the transmitter to the non-impact side of your target

Set the receiver/flash assembly in a position that it will not be hit by bullet splatter or by a direct hit from a bullet.

Turn on the flash unit and the receiver, by sliding the power switches into the ON positions. Turn on the transmitter by moving the switch baton either up or down.

Go back to the transmitter and press the "TEST" button. The system should flash.

WARRANTY

Target Impact Signal System/Spencer Instrumentation, Inc. warrants the Target Impact Signal System Wireless Flash Trigger unit to be free from defective materials or workmanship for life of the product. Providing that any of the parts of the system have not been abused, strobe unit, target box, i.e. no bullet strikes.

All items returned to Target Impact Signal System/Spencer Instrumentation, Inc. that have been subject to abuse, misuse damage or accident; have been connected, installed or adjusted contrary to the instructions furnished by Target Impact Signal System/Spencer Instrumentation, Inc., or repaired by unauthorized persons will not be covered by this warranty.

NOTE! Your new Target Impact Signal System Wireless Flash Trigger is **NOT WATERPROOF**; using this product in **wet** conditions will **VOID** the **WARRANTY**.

Target Impact Signal System/Spencer Instrumentation, Inc. reserves the right to discontinue models; change specifications, price, design of this device at any time without notice and without incurring any obligation whatsoever.

The purchaser agrees to assume all liabilities for any damages and/or bodily injury which may result from use or misuse of this device by the purchaser, his employees, or agents.

Target Impact Signal System/Spencer Instrumentation, Inc. shall not be liable in any way for consequential damage resulting from the use of this device. With respect to component parts Target Impact Signal System/Spencer Instrumentation, Inc. makes no warranty whether express, implied is statutory or otherwise included any warranty of merchantability and fitness for a particular purpose.

This warranty is in lieu of all other warranties, expressed or implied, and of all obligations or liabilities on part of Target Impact Signal System/Spencer Instrumentation, Inc. No person or corporation is authorized to assume any liability on behalf of Target Impact Signal System /Spencer Instrumentation, Inc.

Items not covered under warranty expressed by Target Impact Signal System/Spencer Instrumentation, Inc. are Target Cables, batteries, or any item that has been struck by bullet fire.

REPAIRS

To return the Target Impact Signal System/Spencer Instrumentation, Inc. for repairs simply ship the unit back to Target Impact Signal System/Spencer Instrumentation, Inc. with a check in the amount of \$25.00 to cover the cost of handling and return shipping. Units will be repaired and returned to you as quickly as possible. If for any reason your unit can't be repaired, Target Impact Signal System/Spencer Instrumentation, Inc. will contact you, and you will be apprised whether the failure of your Target Impact Signal System Wireless Flash Trigger unit is covered under warranty.

Return repairs to either of following address:

Spencer Instrumentation, Inc.
17286 Citron
Irvine, CA. 92612

Phone: 949-786-4011

Email: bspencer@spencerinst.com

Web site: www.targetimpactsignal.com

OTHER PRODUCTS

TISS I	Order Number DK8-001-I
TISS II	Order Number DK8-001-II
TISS III	Order Number DK8-001-III
Target Box	Order Number DK8-002
Target Cable, 10ft	Order Number DK8-003-10
Target Cable, 20ft	Order Number DK8-003-20
Target Cable, Custom Length	Order Number DK8-003-XX
Target Splitter Box	Order Number DK8-004
Velcro Mounting pads	Order Number DK8-005 (Package of 5 sets)
Cradle Mounts w/ Cable Ties	Order Number DK8-006 (package of 10 sets)
Strobe Mounting Rod	Order Number DK8-007
Wireless Transmitter/Receiver	Order Number DK8-010

TROUBLE SHOOTING

No Flash when target is hit:

Check the transmitter, receiver, or the strobe unit to make sure that the power switches are in the ON position.

Check to be sure that the strobe unit is tightly attached to the receiver.

Check batteries for low voltage. Press the test button on the transmitter, and on the strobe unit, the strobe unit should fire, if it does not fire, replace the batteries in each unit, one unit at a time, and test the system again. If all units have fresh batteries, and your unit still will not flash when the test button(s) are pressed, please send your unit to **Target Impact Signal System** /Spencer Instrumentation, Inc. for evaluation.

Revision H, March 29, 2018