



## Custom Dynamics® Smart Triple Play® Installation Instructions

We thank you for purchasing the Custom Dynamics® Smart Triple Play®. Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

**Part Number: GEN-SMART-TPU-UNV**  
(U.S. Patent # 8,588,997)

### Package Contents:

- Smart Triple Play® Module (1)
- Instructions

**Fits:** Compatible with 12VDC Motorcycles with 2 Rear 1156 or 7507 Turn Signals.

### Installation

1. Secure motorcycle on level surface.
2. Remove seat to allow access to the battery and wire harness.
3. Disconnect negative battery cable from the battery.
4. Locate the bikes wiring harness, then select a good place for the Smart Triple Play® unit that will not interfere with the placement of the seat. Secure with tie-wraps, tape or other means so that unit will not move, but still allow access to the program rotary dial and switches.
5. Locate the 6 wires going to the rear of the bike, listed below. Consult your service manual, or the Manufacturer list on page 3. It is a good idea to confirm each wire with a test light and/or volt meter prior to cutting or taping any wires:
  - Ground
  - Power (Running light/constant power)
  - Accessory power (if equipped)
  - Brake
  - Left Turn
  - Right Turn
6. Mark the wires to identify if needed.



## ATTENTION



Please read all warning Information below before Installation

**Important:** For this system to be legal you must use RED rear turn signal lamps.

**Important:** This system is designed to work with single intensity rear turn signals, if you do not have single intensity rear turn signals do not install this module. Contact Technical Support.

**Important:** Remove any existing Run-Brake-Turn or similar modules prior to installing this unit.

**Important:** A load equalizer or Signal Stabilizer™ is required for the SMART Triple Play® to function properly. The load equalizer MUST be installed on the input side of the triple play unit. NEVER install a load equalizer downstream of this unit. (See diagram on page 3)

**Caution:** Never install a trailer adapter, trailer harness or trailer controller downstream of this unit, a trailer adapter, harness or controller must be installed on the input side of this unit.

**Caution:** This unit is designed for a maximum load of 27 watts per channel. Do not exceed 27 watts per left turn signal output, 27 watts per right turn signal output, and 27 watts per brake signal output. Overloading unit could cause damage to the unit and cause the unit to malfunction.

**Important:** This module is not compatible with CANBUS electrical systems.

**Important:** This module requires 12V DC power to operate, it is not compatible with bikes with lower voltage.

**Important:** If you are eliminating the center tail light, the Red wire on the output of the module must be capped off to prevent shorting.

**Important:** Module must be secured after installation. Find safe area away from any moving parts and out of the way of normal operation of the bike. Use Tie-wraps, tape, or other means to secure. Custom Dynamics® is not liable for damage to the module or the bike as a result of improperly securing the module.

**Notice:** Product is Not DOT approved.

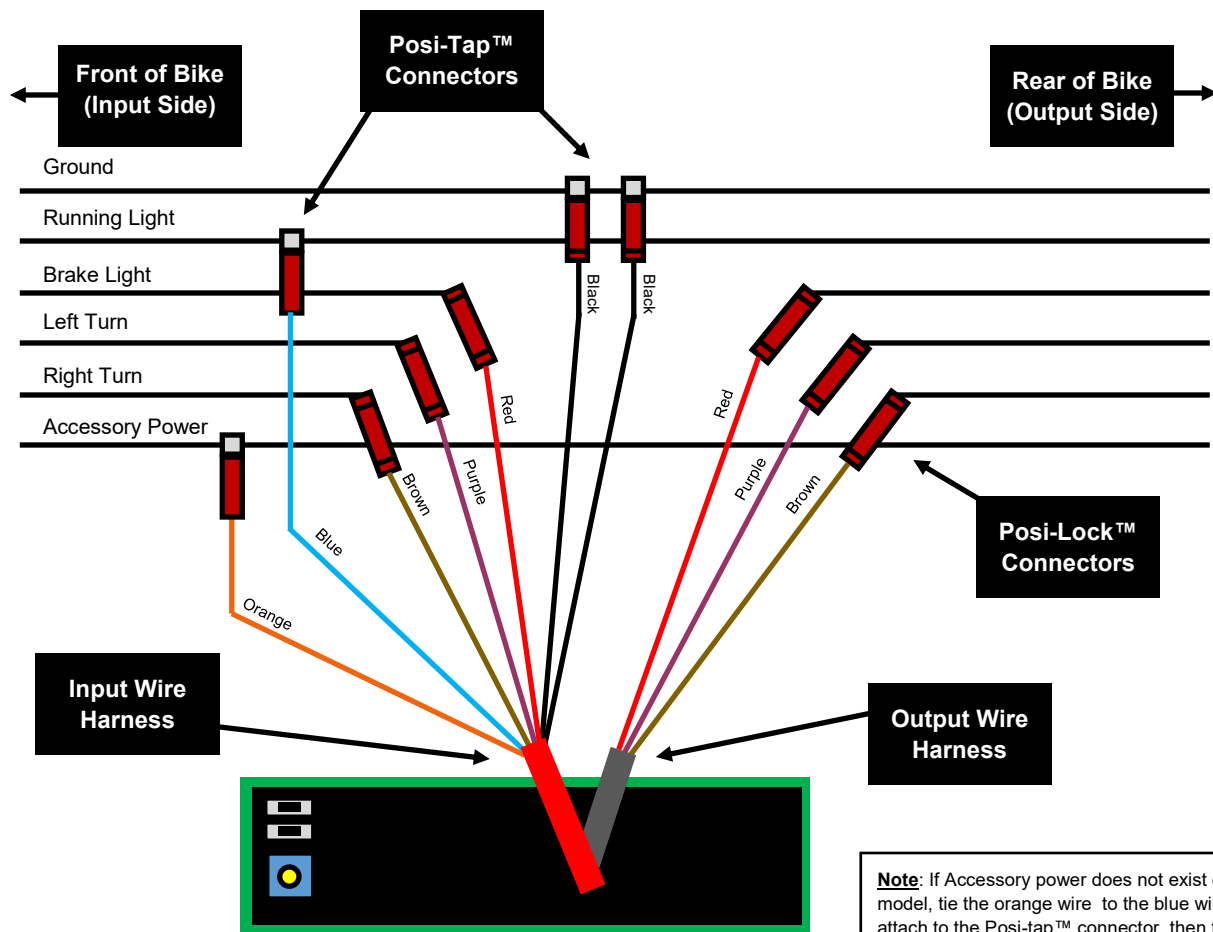
Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

## Installation Instructions - Page 2

### Installation (Continued)

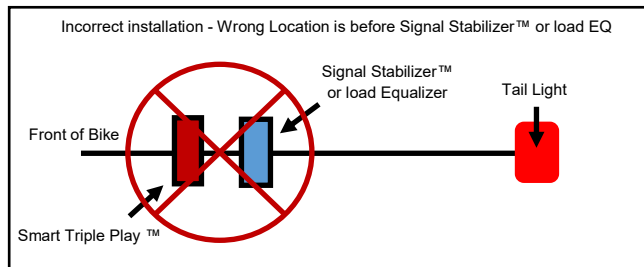
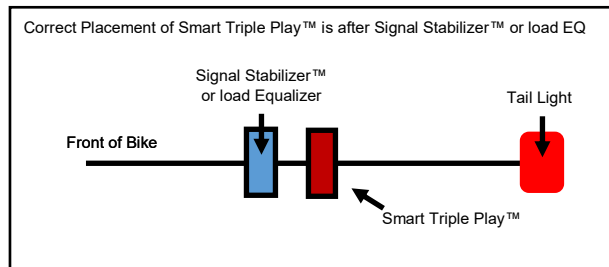
- Cut the brake wire [ + ], left turn signal wire [ + ] and right turn signal wire [ + ] (see diagram).
- Identify the Input wires of the module, noted by the RED Shrink tubing over the wires. Each wire function is as follows:
  - Black (x2) = Grounds [ - ]
  - Orange = Accessory Power [ + ] ( if no secondary power, tie this to the blue wire on module)
  - Blue = Running light Power [ + ]
  - Red = Brake [ + ]
  - Purple = Left Turn power [ + ]
  - Brown = Right Turn Power [ + ]
- Identify the Output side wires of the module, there are only 3...they go to the rear of the bike:
  - Red = Brake [ + ]
  - Purple = Left Turn power [ + ]
  - Brown = Right Turn Power [ + ]
- Use the Diagram below to make your terminations to the attached red Posi-Tap/Lock connectors.

### Typical Motorcycle Wire Harness



# Installation Instructions - Page 3

## Module Placement



## Typical Wire Colors by Manufacturer

These wire colors are typical but not specific for every make, model and year. Please verify the wiring on your bike with a test light and/or volt meter to confirm. This is only a guide.

### Harley Davidson

Ground = Black  
Running = Blue  
Brake = Red  
Left Turn = Purple  
Right Turn = Brown

### Kawasaki

Ground = Black w/yellow tracer  
Running = Red  
Brake = Blue w/red tracer  
Left Turn = Green  
Right Turn = Gray

### Triumph

Ground = Black  
Running = Red  
Brake = Blue  
Left Turn = Green w/red tracer  
Right Turn = Green w/white tracer

### Honda

Ground = Green  
Running = Brown  
Brake = Green w/yellow tracer  
Left Turn = Orange  
Right Turn = Light Blue

### Suzuki

Ground = Black w/white tracer  
Running = Brown  
Brake = White w/black tracer  
Left Turn = Black  
Right Turn = Light Green

### Yamaha

Ground = Black  
Running = Blue  
Brake = Yellow  
Left Turn = Brown  
Right Turn = Dark Green

**Posi-Tap™ TAP CONNECTOR**

**QUICK & EASY**

- 1 Insert Hot Wire
- 2 Tighten
- 3 Strip Leads
- 4 Insert & Tighten

• TAPS WIRES WITHOUT CUTTING  
• TOTAL WIRE INTEGRITY IS MAINTAINED  
• INSTALLS IN SECONDS BY HAND  
• NO CRIMPING OR TOOLS REQUIRED  
• REUSABLE OR PERMANENT  
• LESS RESISTANCE  
• VIBRATION PROOF  
• FULLY INSULATED

POWERS UP TO (4) LEADS AT ONCE!

NO CRIMPING  
NO TOOLS NEEDED

**Posi-Lock™ Connectors**

**EASY AS 1 2 3**

- 1 Strip wire 1/2"
- 2 Insert
- 3 Hand tighten

CONNECTION COMPLETE!

## Initial Setup & Operation

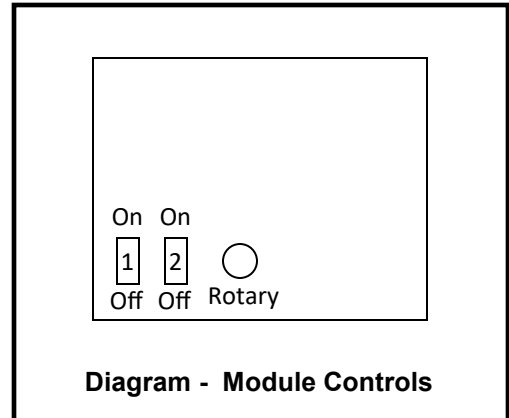
1. Locate the two switches and rotary dial. Be sure the rotary dial is set to position 0. There is small arrow on the dial, this is the pointer that should now be at position 0. Be sure Switch 1 and Switch 2 are both in the ON position. (See Diagram on next page)

Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

## Installation Instructions - Page 4

2. Turn the ignition key on and check operation as follows:

- Running Lights: Turn Signals and Taillight are now illuminated dimly.
- Apply Right Turn Signal and check operation of right turn signal, should flash off to bright. Disable turn.
- Apply Left Turn Signal and check operation of left turn signal, should flash off to bright. Disable turn.
- Apply Brake Light. Check to see that all 3 lights flash 4 times then remain bright.
- Apply Left Turn Signal then Apply Brake, Check to see that Only Center Light Flashes 4 times then remains bright.



**Diagram - Module Controls**

### Program Mode

The Smart Triple Play® allows you to program the running light brightness of the turn signals so they are a match to your center taillight. To enter the modules program mode:

- Turn ignition key off, be sure Switch 1 and Switch 2 are in the OFF position and the Rotary Dial is at position 0.
- Turn ignition key on, immediately turn Switch 2 On-Off-On. Turn Switch 1 On-Off-On. Do not depress Brake or Turns Signals during this action.
- The turn signals should now fade up and down slowly, do not proceed unless this confirmation takes place.
- Turn the rotary dial clockwise to increase the brightness of the running lights, 0-being the dimmest setting and 9-being the brightest. Match the running light brightness to the taillight. Once happy with the setting, press and hold the brake for a couple of seconds. The setting will now be saved.

Turn ignition key OFF and set switches for desired Operation.

### Program Menu

#### Switch Functions:

Switch 1 On, Switch 2 On: Strobes/Flashes on all three Rear Lights

Switch 1 On, Switch 2 Off: Strobes/Flashes on rear turn signals only

Switch 1 Off, Switch 2 On: Strobes/Flashes on center light only

Switch 1 Off, Switch 2 Off: No Strobes/Flashes

**Dial Strobe Functions:** (Note that Patterns 0-3 are compatible with incandescent bulbs) See Diagram on page 3.

### Test & Finish

Turn ignition key on and test operation based on your desired switch settings. Once programming is complete, re-install the seat. Installation is complete.

## Flash Pattern Information:

