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 tapping 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 no 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: Dial and switches should be maneuvered by hand only. Do not use any tool such as a screwdriver that could damage waterproof covers.

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

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Installation (Continued)

7. Cut the brake wire \([+]\), left turn signal wire \([+]\) and right turn signal wire \([+]\) (see diagram).

8. 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 \([+]\)

9. 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 \([+]\)

10. Use the Diagram below to make your terminations to the attached red Posi-Tap/Lock connectors.

Typical Motorcycle Wire Harness

Note: If Accessory power does not exist on your model, tie the orange wire to the blue wire and attach to the Posi-tap™ connector, then to the running light.
Module Placement

Correct Placement of Smart Triple Play™ is after Signal Stabilizer™ or load EQ

Incorrect installation - Wrong Location is before Signal Stabilizer™ or load EQ

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

**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

**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 wired tracer
- Right Turn = Green w/white tracer

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

**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)
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.

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:

Pattern 0: Four Flashes then Solid

Pattern 1: Four Flashes, Solid for 3 Seconds, Repeat

Pattern 2: Seven Flashes then Solid

Pattern 3: Seven Flashes, Solid for 3 Seconds, Repeat

Pattern 4: Quad Strobe then Solid for 1 Second then Quad Strobe

Pattern 5: Quad Strobe, Solid for 1 Second, then Quad Strobe, Solid for 3 Seconds, then Repeat

Pattern 6: Blaster X Pattern for 6 seconds, then Solid

Pattern 7: Constant Blaster X Pattern

Pattern 8: Constant Fast Strobe 4 Seconds, then Solid

Pattern 9: Constant Fast Strobe Pattern

Incandescent or LED

LED Only