Custom Dynamics® Smart Triple Play® Installation Instructions

Part Numbers

CD-STP-UNV

Package Contents

Custom Dynamics® Smart Triple Play® Module (1)
6" Cable Ties (6)
Instructions (1)

Fitment

Universal 12VDC negative ground systems.

Suggested Tools

Safety Glasses
Small Phillips Screwdriver
Wire Strippers
Test Light or Volt Meter (Optional)

Installation

Warning

Rider and passenger safety depend upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a qualified technician perform the installation. Improper installation of this kit could result in death or serious injury.

1. Confirm the ignition switch is in the off position.
2. Remove the seat and locate rear lighting connectors to the rear fender.
3. Disconnect the battery negative cable from the battery.
4. Locate the motorcycles wiring harness, then select a good place for the Smart Triple Play® module that will not interfere with the placement of the seat and allows access to the rotary dial. Secure with supplied Cable Ties to keep the wires from being cut, frayed or pinched.
5. Locate the 6 wires going to the rear of the motorcycle, listed below. Confirm each wire with a test light or volt meter prior to cutting or tapping any wires:

    - Ground
    - Power
    - Accessory Power
    - Brake
    - Left Turn
    - Right Turn

6. Label wires to identify if needed.

Questions? Email: Info@CustomDynamics.com or Call us at: 1(919)554-0949 M-TH 8:30AM-5:30PM, F 9:30AM-5:30PM EST

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7. Cut the brake wire [+], left turn signal wire [+] and right turn signal wire [+]. Shown in **Figure 1.**
8. Identify the Input wires of the module, they are in the shrink tubing with 6 wires, each wire function is as follows:

- Black (1) = 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 wires of the module, they are in the shrink tubing with 3 wires, they go to the rear of the motorcycle:

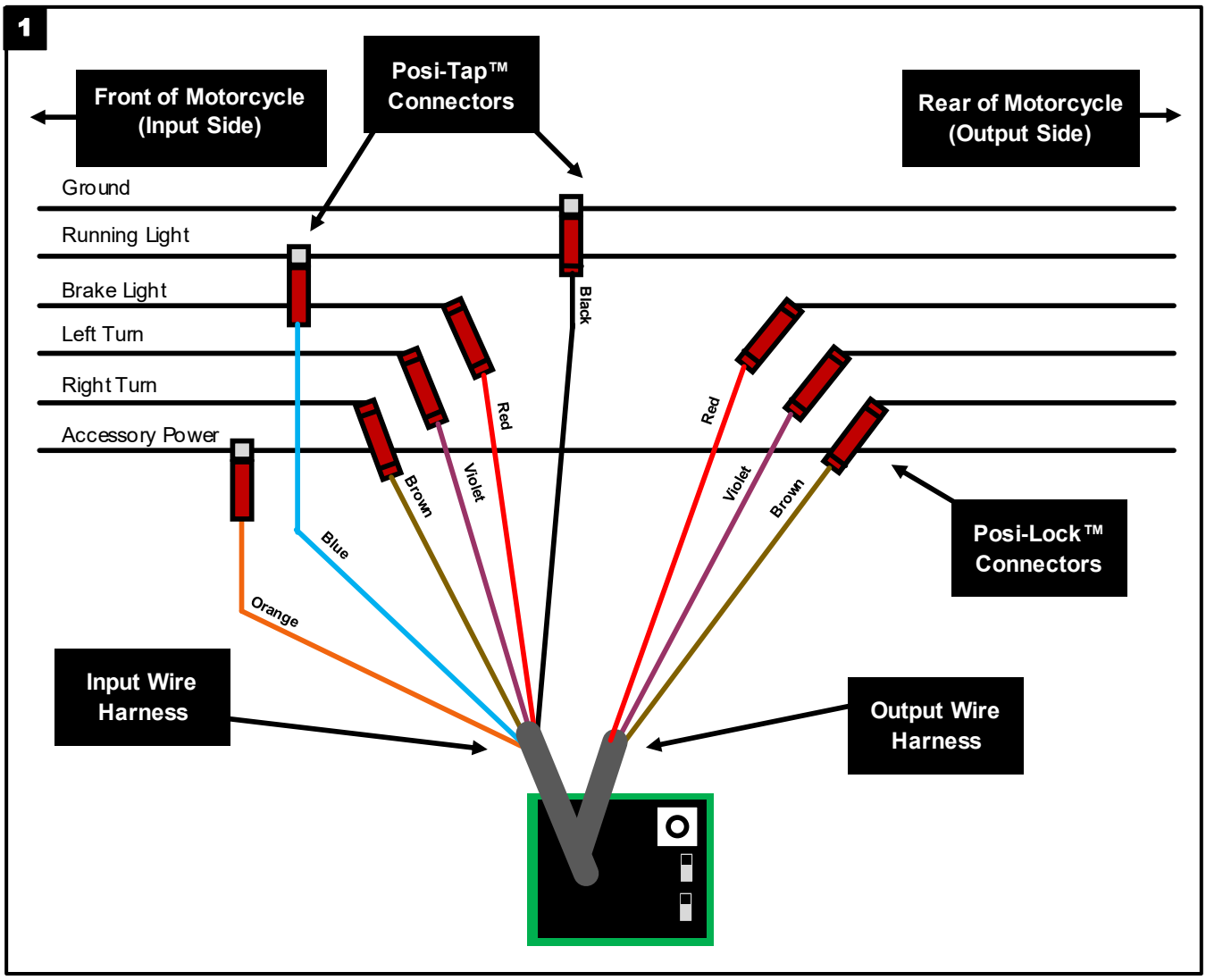
- Red = Brake [+]
- Purple = Run/Brake/Left Turn power [+]
- Brown = Run/Brake/Right Turn Power [+]

10. Use the **Wire Diagram in Figure 1** to make your terminations to the attached red Posi-Tap™ connectors.

Wire Diagram

Important

If accessory power does not exist on your model, connect the **orange** wire to the **blue** wire with a Posi-Tap™ connector, then attach to the running light.



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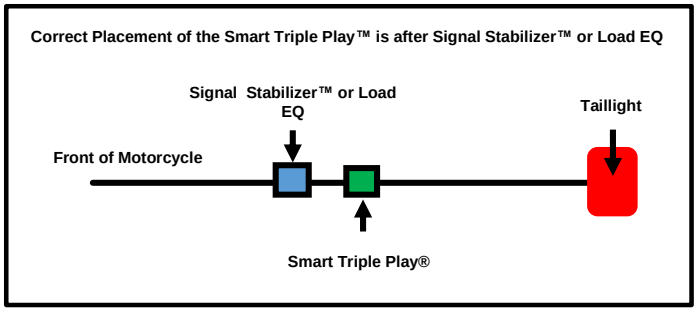
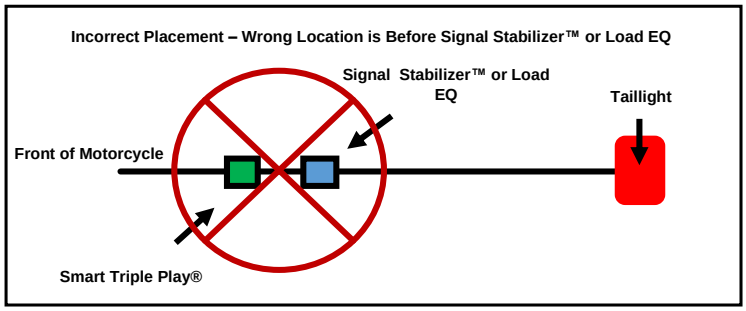
Module Placement





Note

Manufacturers Typical Wire Color

Harley-Davidson®	Honda®	Kawasaki®	Suzuki®	Yamaha®	Triumph®
Ground = Black	Ground = Green	Ground = Black/Yellow	Ground = Black/White	Ground = Black	Ground = Black
Running = Blue	Running = Brown	Running = Red	Running = Brown	Running = Blue	Running = Red
Brake = Red	Brake = Green/Yellow	Brake = Blue/Red	Brake = White/Black	Brake = Yellow	Brake = Blue
Left Turn = Violet	Left Turn = Orange	Left Turn = Green	Left Turn = Black	Left Turn = Brown	Left Turn = Green/Red
Right Turn = Brown	Right Turn = Light Blue	Right Turn = Gray	Right Turn = Light Green	Right Turn = Dark Green	Right Turn = Green/White

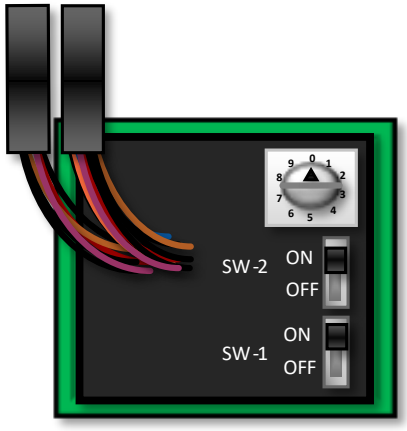
Initial Setup and Operation

Important

SW-1 and SW-2 should be maneuvered by hand only. Do not use any tool such as a screwdriver that could damage waterproof covers. Use a small Phillips screwdriver to maneuver the rotary dial.

11. Locate the two switches and rotary dial. Be sure the rotary dial is set to position 0. There is a 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. Shown in **Figure 2.**
12. Perform a BCM turn signal sync by turning the ignition on, turn the 4 way hazards on for three sets of 10 flashes to Sync the BCM to eliminate the rapid flash in the dash. (Only for BCM Harley-Davidson® motorcycles).
13. Turn the ignition key on and check operation as follows:
    - Running Lights: Turn signals and taillight should now be illuminated. If your rear turn signals are not illuminating as a running light, or you would like to change the brightness, please refer to Step 14.
    - 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 and check to see that all 3 lights flash 4 times then remain bright.
    - Apply left turn signal then apply brake and check to see that only center light flashes 4 times then remains bright.

2



Scan QR code/Click Link to the right to be directed to a video showing how to enter Program Mode and adjust the running light intensity of your rear turn signals.

STP Program

14. The Smart Triple Play® allows you to program the running light brightness of the turn signals so they match the brightness of your center taillight. You can also select to have the turn signals operate as brake/turn only with no running light.

Program Turn Signal intensity

- Turn ignition key off, be sure Switch 1 and Switch 2 are in the OFF position and the Rotary Dial is in the 0 position.
- Turn ignition key on, immediately turn Switch 2 On-Off-On. Then turn Switch 1 On-Off-On. Do not depress Brake or Turn Signals during this action.
- The turn signals should now slowly fade from dim to bright, do not proceed unless this confirmation takes place.
  Option 1 - Turn the rotary dial clockwise to increase the brightness of the running lights, 0-being the dimmest setting and 8-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.
  Option 2 - To disable the run function and receive only brake and turn signal function on the rear turn signals (output brown and violet wires), turn the rotary dial to 9. Press and hold the brake for a couple of seconds. The setting will now be saved.

15. Turn ignition key OFF and set switches for desired strobe operation.
16. Clear DTC's (Diagnostic Trouble Codes)

Note

Clear DTC's only if feature is available.

- Press and hold the trip odometer reset switch located on the left handlebar control, while turning the IGN ON.
- Release the trip odometer reset switch when **"**DIAG**"** appears on the ODOMETER DISPLAY.
- Press and release the trip odometer reset switch until **"**BCM**"** is displayed on the odometer display. **"**BCM Y**"** = Yes DTC set. **"**BCM N**"** = No DTC set.
- If **"**BCM Y**"** is displayed, press and hold the trip odometer reset switch until the code is displayed and release.
- Press and hold the odometer reset switch while the DTC is displayed until **"**CLEAR**"** appears on odometer display.
- Turn the IGN OFF to exit the diagnostic mode.

Strobe Operation Switch Functions

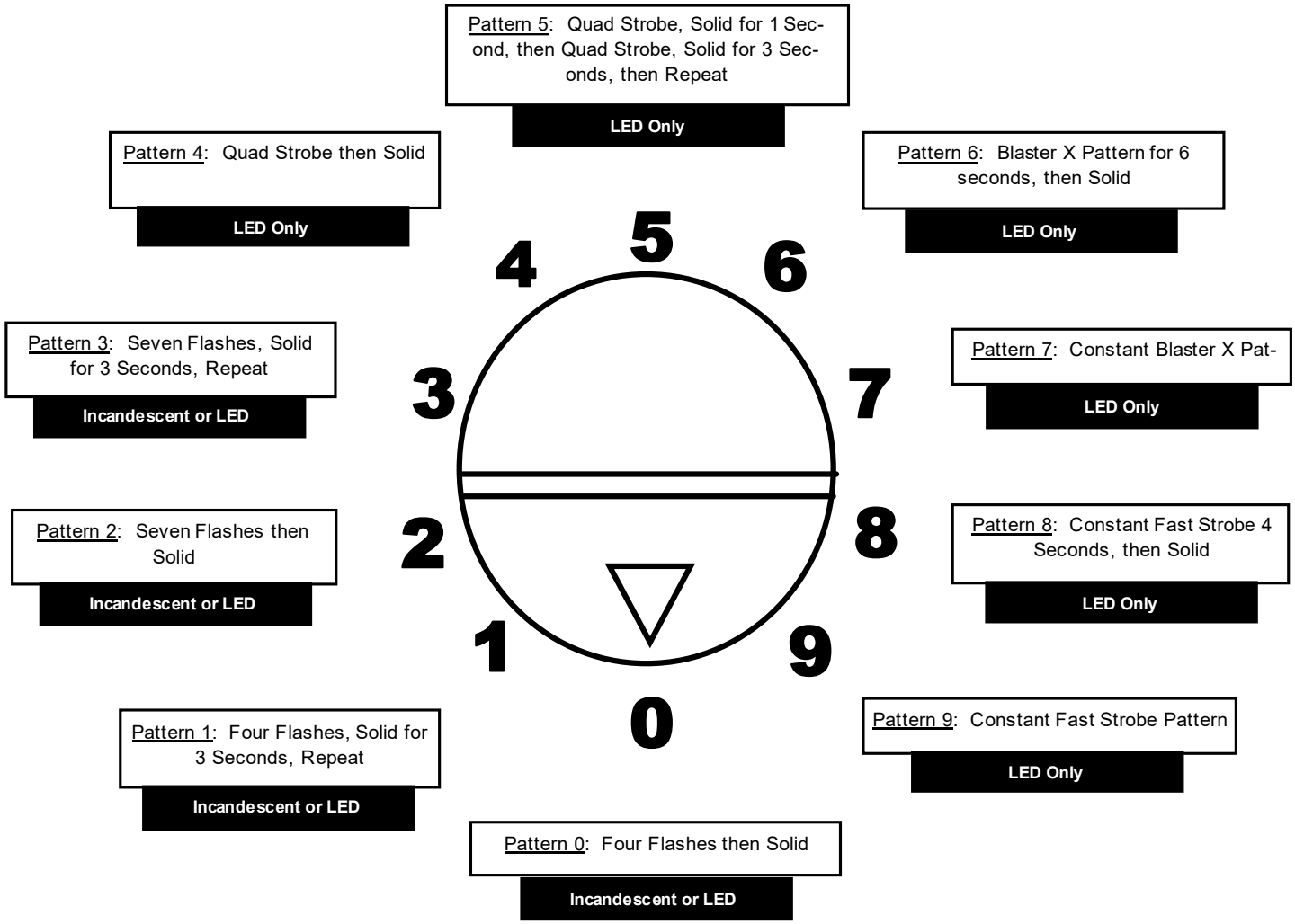
- Switch 1 On, Switch 2 On: Strobes/Flashes on all three Rear Lights.
- Switch 1 On, Switch 2 Off: Strobes/Flashes on rear turn signals only.
- Switch 1 Off, Switch 2 On: Strobes/Flashes on center light only.
- Switch 1 Off, Switch 2 Off: No Strobes/Flashes.

Note

Patterns 0-3 are compatible with incandescent bulbs. Shown in **Flash Pattern Diagram.**

17. Turn ignition key on and Test Operation based on your desired switch settings. Once programming is complete, reinstall the seat and all necessary parts. Installation is complete.

Flash Pattern Diagram



Caution

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

Note

Product is Not DOT approved.