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Use Series 5 Models For Pre-CAN-BUS
BMW Motorcycles And Others.

READ Through BEFORE Starting Please!

INSTRUCTIONS

This device is designed to control aftermarket auxiliary headlights using a timed pulse of the Turn Signal Cancel Button on CAN-BUS BMW Motorcycles 2005 up R1200GS, 2006up R1200RT, R1200R, R1200ST, R1200S. Works for 2006up K series confirmed on 1200GT which should apply to all K. F series to be determined.

VOLT OHM METER USE STRONGLY SUGGESTED
Referring to the web page install pictures suggested

Thank you for buying Autoswitch. The better smarter way to control your auxiliary lights on motorcycles, Cars, ATVs etc

FAST FACTS For The Experienced Installer:

Red wire to 12volt source switched by ignition switch*, Orange-Yellow wire to blue-white wire pin-8 chassis computer block connector OR TSC Button, Violet wire to your light relay COIL.. Black to ground. WIRING DIAGRAM ON REVERSE SIDE OF PAGE. Use your VOM to find ground and power. *BMW R-Bike Plug 61132316621 Helpful At the Accessory jack.

MORE DETAILED INFORMATION, GENERALIZED FOR VARIOUS CAN-BUS BMW MOTORCYCLES:

1. If not previously installed, install your auxiliary lights per manufacturer instructions, including the relay they supply. AUTOSWITCH CONTROLS A RELAY. MUST BE USED WITH A RELAY NOT INCLUDED.
 2. There are 2 places to connect to the TSC wire. Less intrusive, easier is inside the TSC button housing. The better install might be at chassis computer block connector. R-bike (1200GS proved) it is under the tank. K-bike (1200GT proved) it is front right side behind fairing panel.
 3. Use a VOLTMETER to Locate a 12 volt wire that gets power when you turn on the ignition. A good tap point is the wire feeding the charge/accessory jack. To avoid splicing into that wire plus a ground use the BMW Y-Harness **61132316621** (R-bike) available from your dealer at low cost (aprox \$16-21) and modify with connectors. Pictures on the web page. This will be the Autoswitch main power. Connect the **RED Autoswitch wire** to it. **NOTE! Be sure you used a wire which is NOT switched OFF DURING bike operation for any reason.** Note: This wire stays power up aprox 30 seconds after ignition is turned off
- WARNING! BE SURE** You check your work. Check all connector blocks, wire harnesses and be sure nothing is left different than original. Autoswitch only taps into existing lines and does not affect any electrical circuits. Be sure all the new wires are properly tied with supplied tie-wraps and away from high heat sources. **WARNING!** The wire selections we made **MUST** be confirmed on your bike before making connections. There "could" be a difference! Use a Volt-Ohm meter.
4. Sensor Wire Install: At computer find the large connector aprox 1.5"X3" with a ½" diameter taped wire bundle going into it. On K bike it's the one with a flat cover not 2-step cover. Pull side tab out while and connector raises out at same time. Connector cover must be removed. To slide off the cover use flat blade screwdriver and separate end lip as you pull slide cover away from cable bundle. Detailed pictures on the web page. Looking at the back (wire harness upward) of the connector block (wire side) find the teal/blue-white stripe wire at the lower right of the right most row. It is the last thin wire in a square hole. Looking at the pin side of the block will show it is pin-8. It is on the black inserted sub block (2 rows of pins) for reference. (Details on web page)

Next, push the large red and black wires left, out of the way. Select and pull up our blue/white stripe wire and connect the Autoswitch orange-yellow striped wire there. Our method is to use a razor blade and cut the sheath 1" distant from the pin hole and use tweezes to pull back the sheath a bit and expose the copper wire. Tin it with solder using small soldering pencil. Pre tin the sensor wire as well, for quick soldering once you join them. Now apply the black moldable paste included to cover and secure your connection next to the rest of the wires. Now, use a tie wrap to fasten the orange-yellow sensor wire to the outside of the thick bundle and away from the plug towards Autoswitch. (See web page for picture details).

5. Sensor Wire Alternate tap point: Find the same wire under the cover behind the TSC. It's the second from the right (R-bike) (confirm the colors) on front row of the switch side of the 8-pin connector. Solder the sensor wire on as described before and run the wire out a slot downward between covers. then tie-wrap the sensor wire along underneath the wire bundle going to the frame. This tap point is favored if future bike warranty issues arise. This point is less intrusive plus the whole button cluster can be replaced to discard the modified wire. On the K-bike find the wire in the bundle exposed under the plastic cover. Look for it going towards the TSC button. Details on web page.

6. Now locate your light kit's auxiliary relay. Connect AS violet wire to one side of the relay coil wire. The other side of the relay coil would be connected to ground. Finally, connect the BLACK wire from Autoswitch to chassis ground or the negative battery terminal.

7. Take the LED cable and route along to a convenient location on the bike near your instrument pod or handlebars. The LED should point at your eyes for brightest light. Fasten with a tie-wrap 1" down from the LED itself so you can adjust for best angle depending on your preference for night and day brightness. Tie the wire along securely and be sure the tank will not be pinching it when it is replaced! This LED can also be mounted in a small hole.

8. Now wrap up the wires you just connected for Autoswitch and tuck the Autoswitch into an out-of-the-way place and use the larger tie-wraps to secure it. **OR** find a clean flat spot and stick the housing to it using double sided adhesive tape. Secure the wires with the small tie-wraps and cut off excess. The tape adhesion increases over time.

9. Now test Autoswitch for proper operation! The LED shines RED when AS is powered. (Aux lights OFF). Push and hold the TSC button over 1.2 seconds (LED flashes red-green fast) and release. Now your lights should turn ON or turn off.. For model AS6B2 it takes 2 quick pulses instead of the single long pulse.

WIRE CONNECTIONS: We provide the RED Multi-Taps for faster installs. Connections should be soldered and covered with a slit piece of scrap thick wire jacket tied on each end with a small tie wrap. All splices soldered and heat shrink covered. Alternatively use the included excellent moldable paste which waterproofs, seals and protects connections.

WARNING: Keep these wires away from heat, just as your wiring harness is protected, these wires' insulation will melt with high engine/exhaust heat.

BMW WARRANTY: This product should NOT void your warranty unless the dealer proves it due to a faulty installation, short circuit or other anomaly as with any other accessory installed on your bike.

Responsible Party: Installation is assumed to be conducted by a knowledgeable person and Antenna World (manufacturer of this product) will not assume liability for any damages, BMW warranty issues or failures arising from its installation and use.

HELP For help or questions please check www.autoswitch.com and **use email. 7-Days! 7AM-11PM.** I will be glad to help! Now enjoy your new Autoswitch. Tell your friends about it. Give us feedback, good or bad!

OPERATION AS6B

PUSH AND HOLD THE TURN SIGNAL CANCEL BUTTON UNTIL THE LED STARTS FLASHING FAST. DURING THE FAST FLASHING, **RELEASE** THE TURN SIGNAL CANCEL BUTTON. DO THIS AGAIN TO TURN OFF THE LIGHTS!

OPERATION AS6B2

TAP TWICE QUICKLY THE TURN SIGNAL CANCEL BUTTON WHILE IT FLASHES FAST. DO THIS AGAIN TO TURN OFF THE LIGHTS!

Block Diagram.
See Text For Details

Visit
autoswitch.com
For More
Installation
Information
And Pictures!

Basic Tech:

**Current Draw: 15mA OFF State
130-200mA ON State due
to relay coil draw.**

Voltage: 8-16 Volts

