ZONE Technologie Électronique Inc.

VERSION 2.1

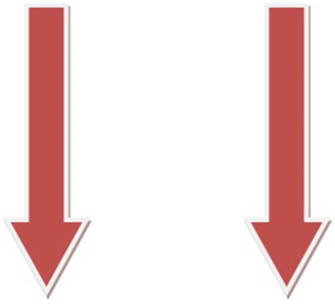
INSTALLATION GUIDE

Wig-Wag Dimmer[MC]

Headlight flasher module

IMPORTANT

Before proceeding with the system installation,
be sure to have carefully read and understood all instructions provided in this guide.



IMPORTANT

This document provides all necessary instructions for the adequate and secure installation of your **Wig-WagDimmer**[MC] module.

Before proceeding with the installation or configuration of the **Wig-WagDimmer**[MC] module, the technician installer must have read and understood the instructions provided in this guide.

This document includes important indications to prevent serious injuries both to the technician installer and to the users.

The **Wig-WagDimmer**[MC] module made by Zone Technology Inc. is programmable.

To reach technical support regarding any questions about:

PROGRAMMING OR OPERATING
modules build or distributed by *Zone Technology Inc.*,

Contact:

Technician (Maintenance and repair)
(450) 572-1476 extension: **205**

DIAGRAM CONNECTION

Contact:

Workshop
(450) 572-1476 extension: **202**

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DESCRIPTION

The **Wig-WagDimmer**[MC] module allows the headlights (Hi-Beam) to flash without alternating shutters and without losing visibility due to the black spot. An input "day/night" deactivates the attenuation mode to maximize the alternation. This input is programmable and can be converted to activate the daytime running lights black out mode. The flashes speed and lamps attenuation levels are programmable.

TECHNICAL SPECIFICATIONS

Supply voltage: .....10 to 18Vcc

Operation temperature: ..... -40°F to 167°F (-40°C to 75°C)

Electrical consummation: - Module OFF:..... 0.3 mA

Outputs:

- Lamp: 12V, 10A
- Shutter: 12V, 1A

Inputs:

- Wig-Wag activation: 12V, 10mA
- Blackout activation: 12V, 10mA
- Day/Night 12V, 10mA

FUNCTIONING

- After powered module (POS #7 and #11), apply a positive signal on the input ''wig-wag activation'' (POS #6), the outputs 1 and 3 will alternate between +12Volts (full intensity) and 4.8V (40% of the full intensity (programmable value)). The outputs 8 and 9, connected to the shutters will be steady ON to +12V and putting high beam ON.

- If the POS #5 **Day/night mode** is activated with a +12V signal, the 40% wig-wag attenuation will be activated (night mode) instead of completely turn off the headlight allowing a better visibility during the night. However, without a 12V signal, the attenuation will be deactivated and the full wig-wag will be activated (day mode) to maximize the visibility during the day.

- If the POS #10 **blackout mode** is activated with a +12V signal, the 2 cutoff relays will be activate to shutdown DRL lights (Canada only).

- If there is no +12V on the ''Wig-Wag activation'' or on the main power, the POS #1 and #2 are bypass together and same thing for POS #3 and #4 leaving vehicle in original operation condition.

WARNING

Pay particular attention to the safety and installation instructions in this guide to prevent damage to the unit or vehicle as well as serious injuries to anyone working on the vehicle, occupants or you.

The installation technician should have a good understanding of vehicular electrical and electronic systems to perform a compliant and safe installation.

To make this product works with maximum efficiency, protect all electrical and mechanical components according to standards.

Once the installation is completed, make sure the proper functioning of the system and all accessories in the vehicle.

MECHANICAL INSTALLATION

Installation of the Wig-WagDimmer^{MC} module

During the installation, be sure that the module cannot be damaged because of unsafely objects being in the vehicle and that the chosen location won't be subject to bad weather.

The module must be installed in the waterproof location.

The module is designed to tolerate a weather margin which varies from -40 C to 75 C (-40 F to 167 F).

The module can be installed under all angles (even reverse).

ELECTRICAL INSTALLATION

Install all electric protection (fuses) on the power wires, as close as possible of the battery. All wires going through a wall must be protected by a rubber or plastic washer.

Be sure to follow all instructions included in this guide.

CAUTION: **Before installation disconnect the negative of the vehicle's battery. Failure to follow the recommendations found in this guide could result in fire or injury.**

Please wait until all electrical connections are completed and checked before reconnecting the battery's negative.

PROGRAMMING

To activate the programming mode:

1) Supply the module and wig-wag activation input (the programming led will flash every 2 seconds).
2) Press on the two programming buttons without releasing them (during at least 3 seconds) until the programming leds flashes accordingly to the pattern of the alternative lights (you can have to use long nose tool to press on both buttons).

To change the flashing speed:

3) Set the module into programming, press the programming button written ‘’speed’’, after each depress the speed increase, once the maximum value is reach, the speed go back to its lowest value.

To change the attenuation value of the lights:

4) Set the module into programming, press the programming button written ‘’intensity’’, after each pressure the beam intensity increase, once the maximum value is reach, the intensity go back to its lowest value.

To exit the programming mode and memorize the new configuration:

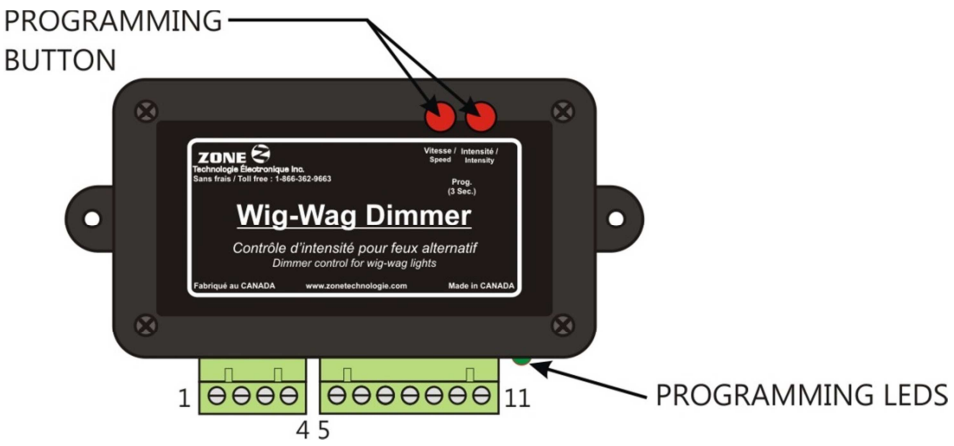
Press on the 2 programming buttons (during at least 3 seconds) until the programming leds flashes every 2 seconds.

To program the input Day/night or blackout:

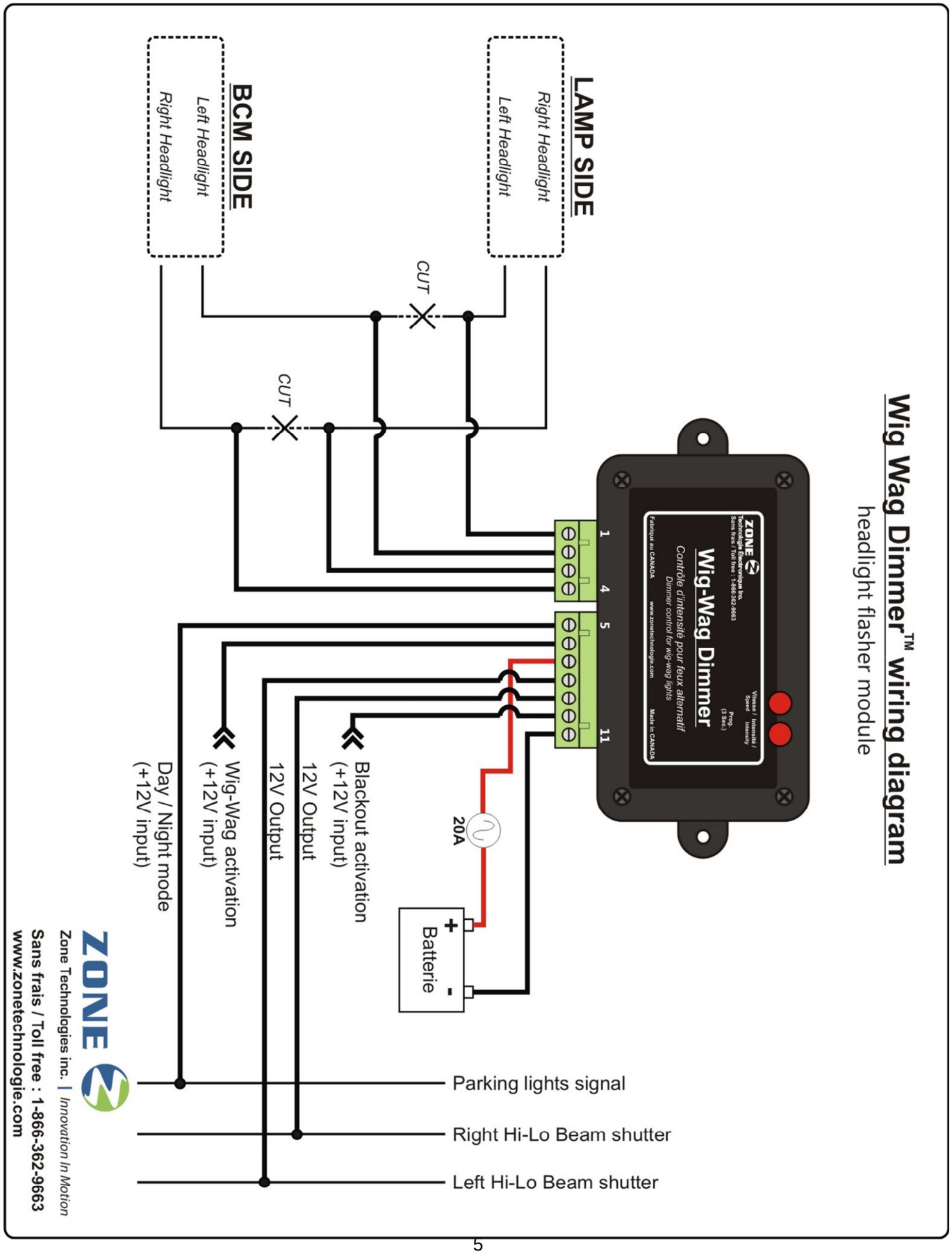
<u>You must not be programming mode</u>. Press on the “SPEED” button until the programming leds flashes simultaneously once every second (Press at least 10 sec.). After each programming you will switch between blackout and day/night input.

To change the flashing pattern:

<u>You must not be programming mode</u>. Press on the “INTENSITY” button until the programming leds flashes simultaneously once every second (Press at least 10 sec.). After each programming you will switch the flashing pattern between 2 flashing modes.



CONNECTIONS DIAGRAMS



NOTES

LIMITED WARANTY

Zone Technologie Électronique Inc. guarantees every component that it produces for a period of 24 months starting on the date of the purchase or of the delivery. The products of Zone Technologie Électronique Inc are verified, inspected and recognize as exempt of any fabrication default.

If a product is found to be defective during the warranty period of 24 months, the product will be repaired or replace at the workshop of the Zone Technologie Électronique Inc. society.

All installation, using or modification of the Zone Technologie Électronique Inc. products which is not recommended by the manufacturer leads to a voiding of the actual warranty.

Zone Technologie Électronique Inc. can't be held liable for the damages or charges that arise because of misuse, a careless maneuver or any others attempts to repair or for any reparations made by a third party. No other warranty, written or verbal, than the one from Zone Technologie Électronique Inc. will be recognized.

Zone Technologie Électronique Inc also has the right to repair or replace any defective product to its sole discretion. Zone Technologie Électronique Inc can't be held liable for the charges that arise during the installation or the removal of a product that requires maintenance and/or repairing.

It is expressly specified that we shall be committed by no other warranty (express or tacit) of intrinsic quality, marketable quality or capacity in a particular use.

For any information, please don't hesitate to communicate with us.
Phone number: 450-572-1476 • 1-866-362-9663 •Fax: 450-572-0898

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Zone Technologie Électronique Inc. can't be held liable regarding any possible mistakes and/or omissions in this document

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