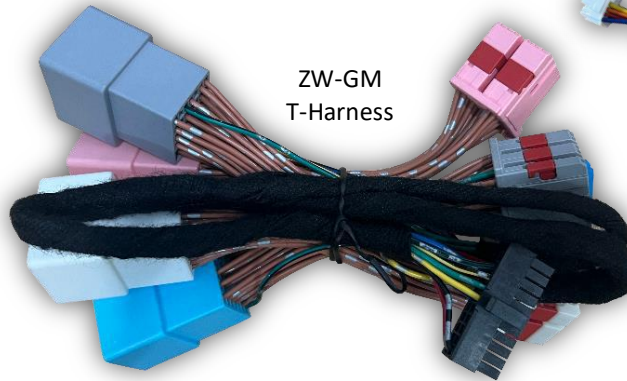


Z-WAGZ

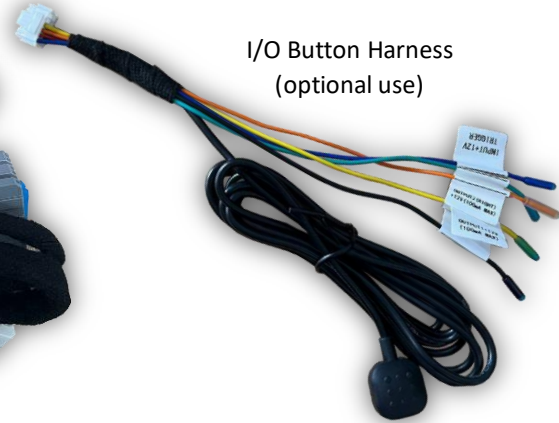
ZW-GM



Plug & Play, BCM-Controlled, OE Light Flash Module



ZW-GM
T-Harness

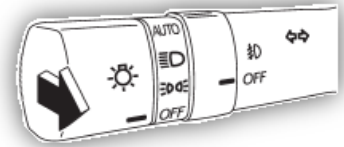


I/O Button Harness
(optional use)

Thank you for purchasing a genuine Z-WAGZ unit, the simplest BCM-module for flashing OEM lights with a press of a button. This unit comes pre-programmed with 8 different light patterns, some for halogen systems & some for LED systems – see below for full operation information including on-board LED status.

Operation for all GM vehicles is the same:

1. Install the Z-WAGZ unit to the OE BCM unit. Follow instructions on page 2 for all vehicles.
2. Turn Ignition ON (Ignition must be on for proper operation). Leave vehicle in Park.
3. **To activate Z-WAGZ:**
 - Press and HOLD the **high beam** lever (5 sec) OR
 - Press and HOLD the provided push button (3 sec) OR
 - Send a latched 12v (+) signal to the **blue wire** (designed to be extended for OE up-fitter switches)

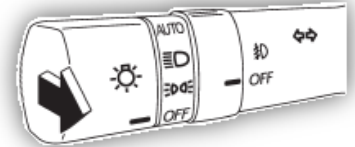


Pattern 1 will begin to flash. Once pattern 1 begins, the hazards in the gauge cluster will blink 1 time, indicating Pattern 1 has been selected and the LED on the unit will blink **BLUE**. See chart for remaining pattern color indication.

4. **To switch to Pattern 2:** (Pattern 1 must be currently active)
 - Engage either turn signal, then press and HOLD the **high beam** lever once more (5 sec). OR
 - Press & release the provided push button

The hazards will blink twice indicating Pattern 2 has been selected. Repeat this process to switch to the next pattern.

5. **To deactivate Z-WAGZ:**
 - Press and HOLD the **high beam** lever OR
 - Press and HOLD the provided push button OR
 - Release 12v (+) signal to the **blue wire** (if connected this way)



NOTES:

- Vehicles equipped with LED lights should use LED patterns. Vehicles equipped with standard bulbs should use bulb patterns.
- Not all lights on the vehicle are necessarily used, some lights are not controllable via BCM CAN data.
- Z-WAGZ will retain the last used pattern, even after being disconnected from the BCM (if ever).
- When flashing is active: *turn signals, headlights & reverse lights* will override pattern flashing, until turned off again.
- When on some patterns, in some vehicles, the reverse camera image may show up/flash on the OE screen (if equipped). This is a factory limitation and is normal. If you want to avoid this, keep DIP (3) OFF.
- 'Plow Mode', when active (INPUT 2), disables High & Low beam flashing and slows the pattern down so that the relay box (plow module) can keep up with the flashing (prevents overheating).

GM Vehicle Installation

1. Locate the BCM unit. The chart below indicates the BCM location in various vehicles.
2. With the vehicle OFF: disconnect the (4) highlighted plugs shown. Connect the male side of each T-Harness to the BCM and the (removed) plugs into the female side of the Z-WAGZ BCM harnessing. These connectors can only fit in one place and connect in one way and are color matched to the OE plugs.
3. Connect the Z-WAGZ BCM unit to the 22-pin connector, tie-wrap the unit to another harness if desired.
4. Return to page (1) for operation instructions.



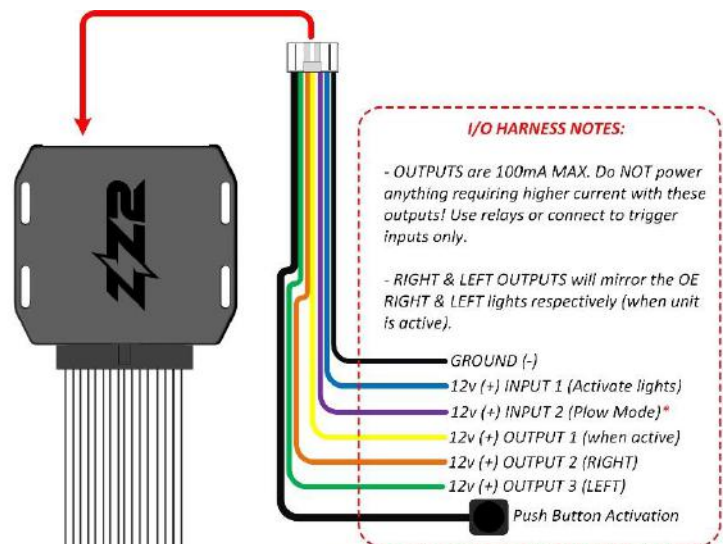
OE GM Body Control Module

GM BCM Locations:

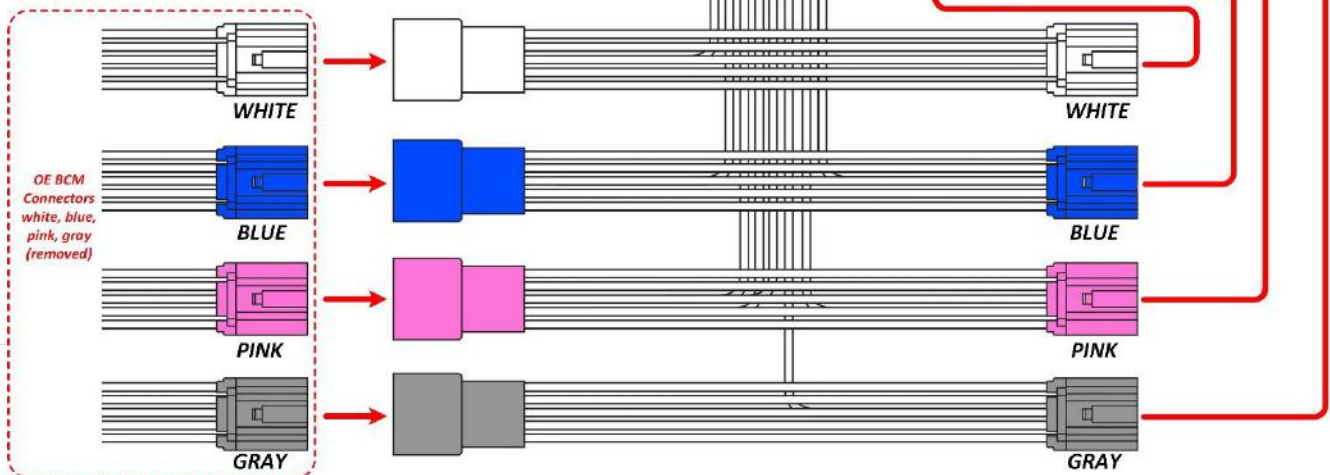
MODEL	LOCATION
Silverado/Sierra/Colorado	Underneath steering wheel / dash area

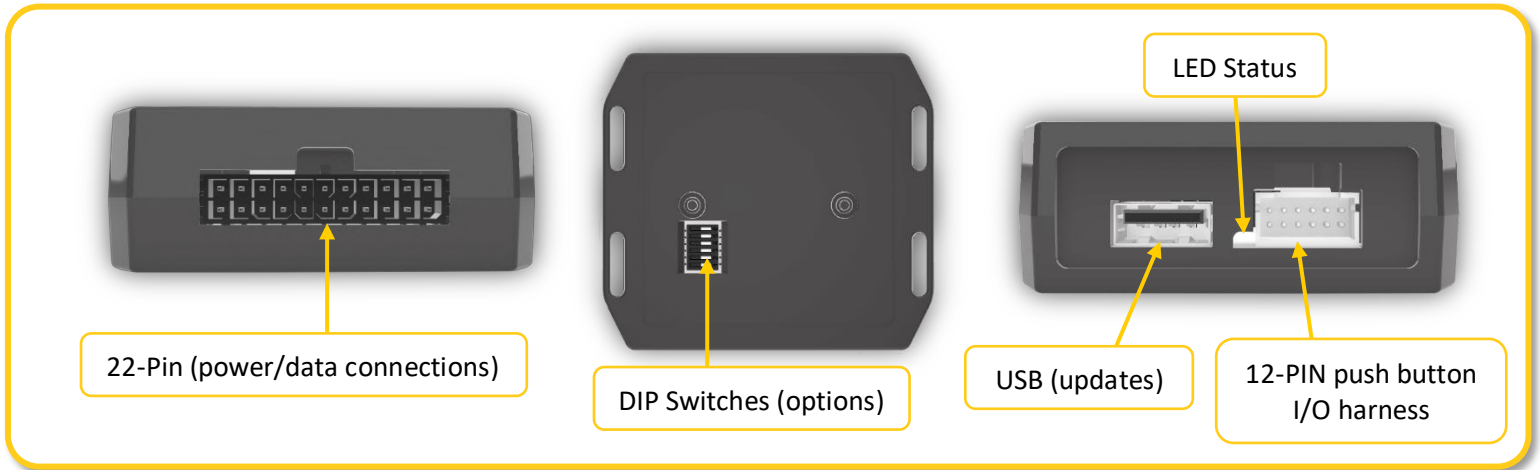
Confirmed Vehicles:

MAKE	MODEL	YEAR
GM	Silverado / Sierra	2014- 2022.5
	Colorado / Canyon	2018-2022.5
	Silverado	2014-2022.5
	Sierra 2500/3500 HD	
	Tahoe/Suburban	2018-2020

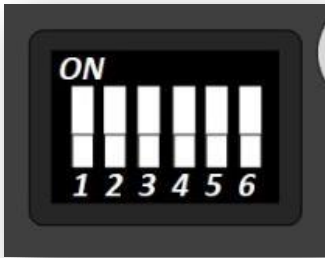


*'Plow Mode', when active (INPUT 2), disables High & Low beam flashing and slows the pattern down so that the relay box (plow module) can keep up with the flashing (prevents overheating). This should be enabled whenever a plow is connected.

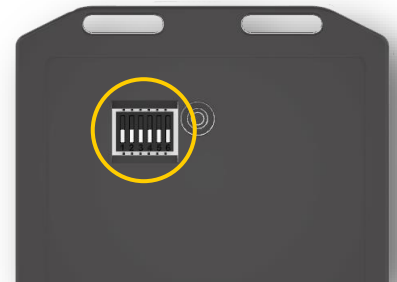




DIP Switch Settings, Extra Features



Located on the back side of the unit is a bank of (6) dip switches – you will need a pick-tool to adjust.



All dip switches are LIVE, do not unplug the module to adjust.

DIP	1	2	3	4	5	6
ON	Disable High Beam	Disable Low Beam	Enable Reverse Light <i>(May cause reverse camera to show on screen while active)</i>	For HALOGEN equipped (slower)	Disable STROBE Mode <i>(Removes strobe every 3 seconds)</i>	N/A
OFF	Enable High Beam	Enable Low Beam	Disable Reverse Light	For LED equipped (faster)	Enable STROBE Mode	N/A

'Plow Mode', when active (INPUT 2), disables High & Low beam flashing and slows the pattern down so that the relay box (plow module) can keep up with the flashing (prevents overheating). This should be enabled whenever a plow is connected.

GM LED Status / Patterns

START-UP INDICATION		
Description	LED Status	More Information
Initial Wake Up	Blinks BLUE (1 time)	Upon initial power connection
Unit recognizes CAN bus (car side ONLY)	Blinks BLUE (3 times)	Upon CAN data wake
Unit recognizes CAN bus (module side ONLY)	Blinks GREEN (3 times)	Upon CAN data wake
Unit recognizes CAN bus (properly)	Blinks BLUE, GREEN (x3)	Upon CAN data wake
Unit detects ACC info	Blinks GREEN (1 time)	Upon Turning Ignition ON
Unit detects GEAR info	Blinks VIOLET (1 time)	Upon switching gears
Unit detects HIGH BEAM pull OR External button press (for activation)	Solid GREEN	Upon pressing High Beam lever or provided push button
Unit receives negative response for light commands	Blinks VIOLET (x3)	--Contact ZZ2--
Unit not receiving confirmation for light commands	Blinks RED (x1)	--Contact ZZ2--
When unit goes to sleep	Blinks WHITE (x1)	--
CAN bus communication problem	Blinks RED + GREEN	While Z-WAGZ is activated
PATTERN INDICATION		
Description	LED Status	More Information
Pattern 1	Blinks BLUE	BASE PATTERN
Pattern 2	Blinks GREEN	WATERFALL PATTERN
Pattern 3	Blinks RED	DOUBLE BLINK PATTERN
POWER CONSUMPTION / ADDITIONAL SPECS		
Description	Specification	More Information
Current Draw Active:	100mA max	
Current Draw idle:	7mA max	
INPUT 1 or 2 Trigger wire act:	12V (+)	Hardwire activation trigger
OUTPUT 1: 12v (+)	100mA max	Outputs 12v (+) whenever unit is active
OUTPUT 2 (RIGHT): 12v (+)	100mA max	Mimics RIGHT turn signal pattern
OUTPUT 3 (LEFT): 12v (+)	100mA max	Mimics LEFT turn signal pattern
Trigger wire idle:	3.3V	
Current limit:	10mA	