ForceFlash Programming Guide
For Corvette Models C5 & C6

Contents

Overview

While the ForceFlash is delivered with a configuration that will meet the needs of most users, it can be further customized to behave the way that you see fit. For example, if you want the ForceFlash to flash the tail lamps 15 times every time you apply the brakes, you can configure this behavior. If you want to lower the G-Force level required to activate flashing, or change the rate of the flashing itself, you can also change this.

Support

While customizing the ForceFlash is a very simple process, we offer no active support. If you have questions about a specific configuration, we are glad to answer those questions but cannot actively troubleshoot a configuration you are working with. The only supported configuration is the out of the box configuration defined in the Default Configuration section of this document. This includes the mounting orientation defined in the Installation Guide.

Specifications

The Forceflash contains a three axis accelerometer and must be mounted exactly the way it's specified in the installation guide. Failure to mount the ForceFlash properly will result in erratic behavior and tail lamps that fail to flash the way as expected with the default configuration. Changing the orientation of the ForceFlash is possible, but not supported. No damage will occur if you change the position. If you

elect change the orientation of the ForceFlash, you must configure Index 1 with the correct value so the ForceFlash knows what position it's in. See the programming steps below for details.

The ForceFlash is designed to handle the load (Amperage) of the factory electrical system only. The ForceFlash is rated at 8 Amps or 100 Watts only, more than enough to support the two inner tail lamps and CHMSL on C5 & C6 Corvettes.

Default Configuration

The table below defines the default configuration of the ForceFlash. It can be used as a reference to return to the original configuration. Please see the programming section for configuration steps.

Index	Setting	Value			
1	ForceFlash Position	3			
2	Global Operation Behavior	1			
3	Lockout Configuration	1			
4	Braking mode to configure.	4 – Heavy Braking	3 – Medimum Braking	2 – Not Used	1 - Normal Braking
5	G-Force Setting	8	5	N/A	N/A
6	Light Flashing Behavior	1	1	4	1
7	Number of Flashes	15	5	N/A	2
8	Flash Rate	5	9	N/A	7
9	Repeat Mode	1	1	1	1

* Index 4 sets the mode you are configuring for indices 5 – 9. If you select Value 3 under Index 4, you are configuring Medium Braking options for Index 5 – 9.

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Programming

Overview

ForceFlash configuration can easily be changed using the programming procedures below. Before getting started, please read through the table and possible values to get a better understanding of the possibilities. When programming the ForceFlash, it's important to keep track of where you are by memorizing the Index number as you step through the options. If you lose track of which area of the settings you are in, you can simply start over. This is done by releasing the brake pedal, and reapplying.

Configuration Table

Index	Setting	Value	Description
1	ForceFlash Position	1 – Position #1 2 – Position #2 3 – Position #3 4 – Position #4	The position the ForceFlash is installed in. The default and supported position is position #3. See pictures for the definition of the other positions in the appendix.
2	Global Operation Behavior	1 – Normal 2 – DO NOT USE 3 – DO NOT USE 4 – DO NOT USE	Normal - ForceFlash activates as soon as the brakes are depressed.
3	Lockout Configuration	1 – No lockout 2 – Dynamic Mode 1 3 – Dynamic Mode 2 4 – 3 Seconds 5 – 6 Seconds 6 – 9 Seconds 7 – 15 Seconds 8 – 25 Seconds 9 – 35 Seconds	Lockout mode is used to disable flashing during high frequency brake usage. Default configuration is set to 1. If this value is changed to 4 and the brakes released and reapplied within 3 seconds, the tail lamps will be steady on. Dynamic Mode 1 – Lockout period is equal to the amount of time the brakes were used. If brakes were engaged for 15 seconds, lockout period will be 15 seconds up to a max of 25 seconds. Dynamic Mode 2 – Lockout period will be shorter the longer the brakes are applied. If the brakes are applies for 20 seconds, the lockout period will be 5 seconds.

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4	Braking mode to configure	1 – Normal Braking 2 – Power applied during lockout period 3 – Medium Braking 4 – Heavy Braking	Select the braking mode to configure. The value chosen here applies to Index 5-9. If you select 3, indices 5 – 9 will now apply to the medium brake behavior.
Index 5 – 9 relate to what you mode you chose for index 4			
5	G-Force Setting	1 – 5 levels if the Medium Braking option is chosen in Index 4. (0.25 – 0.50 G). 2 – 10 levels if the Heavy Braking option is chosen in Index 4. (0.25 – 0.80 G)	Select the G-Force setting desired. If you select value #3 for Index 4, you are configuring G-Forces for Medium Braking. These settings do not apply if values 1 & 2 are chosen for index 4.
6	Light Flashing Mode	1 – Steady Flash 2 – Configured rate then 3x slower. 3 – Progressively Slower 4 – Flashing is Disabled	Steady Flash – Flashes at rate set for Index 8. Configured Rate then 3x slower – Flashes at configured rate, then repeats 3x slower. Progressively Slower – Flashes at configured rate, then descreease 1x with each cycle. Flashing is Disabled – steady tail lamp.
7	Flash Quantity	1 – 20	Number of flashes
8	Flash Rate	1 – 30	Rate of flash. Fast to Slow.
9	Continuous Mode	1 – Disabled 2 – Repeat after 4 sec 3 – Repeat after 8 sec 4 – Repeat after 12 sec 5 – Repeat after 16 sec 6 – Continues flashing cycle.	Disabled – Lights only flash for 1 cycle. 2 – 5 – Lights repeat flashing pattern after time specified. 6 – Continuous cycle no delay. Any configured lockout mode will be disabled.

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Configuration Steps

After you have installed the ForceFlash and confirmed successful operation, you can use these steps to enter configuration mode and change the options defined in the configuration table. If at any point you want to go back to the default configuration, you can follow these steps and refer to the default configuration section for the values.

ForceFlash must be configured while it's connected to the vehicle so that it has a power supply.

To configure the ForceFlash, you will need access to the two white wires with that have shrink tubing on the ends. Simply remove the shrink tubing to expose the wire. You will use these wires to enter configuration mode by shorting them together.

If at any time you're unsure of your position in the steps, simply start over. Settings are saved as you move to each step and immediately become active. As you enter each index, the lights will flash that indicate which option is currently chosen.

You will need to reference the table above to complete the following steps.

Step-by-Step

1. Apply the brakes so that the tail lamps are illuminated. The brakes must be applied for the entire programming process.
2. Short the two white wires together for ~1 second then release. You should see the lights flicker quickly then flash the number of times for the current value chosen for index 1.
    a. At this point you can quickly touch the wires together and the value will increment to the next value for the currently select index. The lights will flash a number of times equal to the value in the table. Remember that for Index 1, value 3 is the supported position option.
    b. If you just want to proceed to the next index, just short the white wires for 2 seconds.
3. Once you are done changing the values for the selected index, simply short the wires for two seconds and the changes will be saved and increment to the next index. Each time you enter an index, the lights will flash to tell you which value is currently chosen.
4. Keep repeating steps 2-3 as needed. When you complete index 9, the ForceFlash will go back to normal mode. If you want to continue programming, simply start at step 2 again.
5. When finished, DO NOT connect the white wires together. Leave them separated and secure with wire nuts, shrink tubing, or electrical tape. If they are connected, the expected configuration will not be active.

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Disclaimer

This guide is provided to help users change the default behavior of the ForceFlash unit. While no damage will occur if done properly, we do not actively support or troubleshoot customization changes. The only supported configuration is the default configuration and mounting positions defined in the installation guide. We are happy assist with any questions but cannot actively troubleshoot your configuration.