

The Window Valet [TM

Top Down Technologies, Inc.; 5339 Prospect Road, #338; San Jose, CA 95129-5033

# Installation

The Window Valet  $^{TM}$  can be installed in seconds. No tools are necessary. Just follow these easy steps:

1) Find the driver's side of the Corvette and open the door.

2) Find the OBD-II connector in the center under the steering column.

3) Note the orientation of the Window Valet<sup>™</sup>.
4) Plug it in.

### Features

There are two categories of features that the Window Valet  $^{\rm TM}$  provides; those accessed from the Configuration Menu, and those accessed by 'gestures'.

# Features - Group I (Configuration Menu Accessible)

Configuration Menu features are only accessed when the user explicitly accesses the feature by selecting it from the Configuration Menu.

The Configuration Menu is accessed by holding down the 'reset' button on the Driver's Information Center and pressing 'unlock' on the driver's door. The Window Valet <sup>TM</sup> will indicate Configuration Mode by causing the

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I nstrument Panel Cluster to chime three times and by causing the tachometer to read 1000 RPM. (I n all but the earliest C5 Corvette, Configuration Mode can also be achieved by simply pressing the 'reset' button three times in succession.) You should not attempt to access the Configuration Mode unless the key is absent from the ignition, or in the OFF position. Once in Configuration Mode, the following features can be directly accessed...

Panic! Mode: This feature will move the speedometer needle to 40 MPH and set the tachometer to 0 RPM. When in this mode, the tachometer and speedometer needle will NOT operate. These needles are locked in position. This feature might be useful in convincing someone that the instrumentation of the Corvette is inoperative. It's a novelty feature only. To access this feature, simply enter Configuration Mode and press the '1' button on the Driver's Information Center. Press 'reset' to escape. Do not leave this mode unattended. It is the only mode that does not have a time-out. Other features will time-out and exit on their own so the car's electronics can automatically go into power savings mode. The Panic! Mode, because of its nature, will not shut down on its own. Just press 'reset' to exit.

**High Speed Mode:** This feature will recall the highest speed that the Corvette was driven since the speed was

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#### 9. Additional Power Window Disclaimer.

By entering a portion of the following code to enable the remote control of power windows, you indicate that you have read, understand, and fully agree to all the TERMS OF USE and that you accept all the risks of bodily harm and property damage and will hold Top Down Tech harmless of any future consequence. If you do not agree to this, do not enter the code and do not use the product, instead see paragraph 1 to return the Product. The PIN code used for window access is the last

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last cleared. Speeds are recorded in the Window Valet <sup>™</sup> while the car is being driven. For speeds over 100 MPH at the track, the tachometer will read 1000 RPM to indicate that 100 MPH should be added to the speed displayed on the speedometer. For example, if the high speed is 137 MPH, the speedometer will display 37 MPH and the tachometer will display 1000 RPM. For a high speed of 65 MPH, the speedometer will display 65 MPH and the tachometer will display 0 RPM. To access the High Speed Mode feature, press '2' on the Driver's Information Center when in Configuration Mode. Press 'reset' to escape, or press '1' to clear the high speed and escape. Speeds in excess of 255km/h (or 158 MPH) may not be recorded properly and have not been tested.

**RAP On Demand:** RAP is 'Retained Accessory Power.' This feature will enable accessory power even when the key is absent. When accessory power is enabled by the Window Valet <sup>™</sup>, power to the stock radio is maintained, even when the doors are opened. In the case that both doors are closed, the power window controls on the door are also functional. This is an invaluable feature for when the driver must take the keys and leave a passenger in the car. To activate RAP On Demand, enter Configuration Mode and press the '3' key on the Driver's I nformation Center. 'Reset' will cut power, or the timer will automatically shut it off later. Pressing four digits of the serial number shown below and on the product. Entering the PIN code will be considered equivalent to signing this liability waiver.

'lock' or 'unlock' on the remote key FOB will also shut off the power.

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The RAP time-out delay for 'RAP On Demand' or for the 'RAP On Triple Unlock' feature is programmable. It can be set for 30 seconds, 5 minutes, or 15 minutes. See the Configuration Menu on page 12.

#### Features - Group II (Gesture Sensitive Features)

The second group of features are activated by gestures. A gesture is a subtle action similar to what one would normally do, but distinct enough to cause a special reaction. For example, to lock the doors, a user would normally press 'lock' on the remote key FOB. However, by pressing 'lock' three times in succession, a special function can be invoked while not interfering with the normal door locking process. Since gestures are subtle and can be invoked easily or accidentally, it is very important that each user be aware of which gesture sensitive features are enabled for his or her Window Valet <sup>TM</sup>. And because of this, the Window Valet <sup>TM</sup> ships with only one gesture sensitive feature enabled by default, RAP on Triple Unlock.

**Remote Power Window Control:** If the Remote Power Window Control feature is enabled, then anytime the user presses 'unlock' three times in rapid succession on the remote key FOB, the Window Valet <sup>TM</sup> will lower both the driver's and passenger's windows to their fully lowered positions. If more than one second of time separates any of the three 'unlock' clicks, then the window control will not activate. The windows can also be raised. Pressing 'lock' three times on the remote key FOB will cause the windows to raise to the top. A fourth 'lock' or 'unlock' click should cause the window motion to abort.

\*\*\*\* It is very important to watch the window upward motion for several reasons: 1) To be sure the windows are clear of any obstructions prior to window motion. 2) To be sure that no one or no thing gets into the windows' paths while the windows are in motion. 3) To be sure that the windows stay up when they are instructed to raise.

The Window Valet <sup>™</sup> makes an attempt to detect obstructions in the windows' paths. If its safety mechanism decides an obstruction was encountered, both windows will immediately lower. The top window seal is an obstruction. When it is reached, the Window Valet <sup>™</sup> tries to determine if the top seal was reached, or if a foreign object was encountered. Because of this, both windows must be fully lowered before the window up feature can be expected to operate properly, otherwise, the top seal will be encountered before it's

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# Configuration

Please understand the gesture sensitive features before choosing which features to enable on the Window Valet  $^{\text{TM}}$ . The following example will show how the Configuration Menu Structure can be read from the outline on page 12.

How to Read the Configuration Menu Structure: To enter configuration mode, press 'unlock' on the driver's door panel while holding 'reset' on the Driver's Information Center. It's best to do this with the key off and removed. Once in configuration mode, any feature can be activated or enabled by tracing through the Configuration Menu Structure outline.

**Note:** To enable and calibrate the windows, be sure that the coupe top is in, or the convertible top is raised. This will let the calibration sequence detect the normal position of the top window seal.

For example, to configure the remote power window option, follow through the Configuration Menu Structure. The top level has four options: 1-Panic! Mode 2-Display high speed 3-Activate accessory power 4-Enter configuration menu expected and thus determined to be a safety fault. To test this, let the windows partially up prior to activating the Window Valet's  $^{\rm TM}$  window up feature. Do not obstruct the power moving window. Re-read the legal disclaimers.

Passenger Door Unlock Assist: The Window Valet<sup>™</sup> can be programmed to unlock the doors to make it easy for the passenger to exit the car. Placing an automatic transmission in park or setting the hand brake are the two gestures that can be selectively enabled to control the door unlocking feature. Select one, the other, both, or neither. Neither is the factory default.

RAP On Exit: When enabled, the Window Valet <sup>™</sup> will maintain accessory power to the stock stereo even after the key is removed and the doors are opened. Power is shutdown after a programmed delay, or as soon as the doors are either locked or unlocked with the remote key FOB, whichever happens first. This feature becomes active whenever the ignition key is turned from the ACC position to OFF and then the key is removed. If the doors are still closed when this happens, the Corvette maintains power on its own, once the doors are opened however, the Corvette will shut off the power and the Window Valet <sup>™</sup> will immediately re-enable it. If the headlight switch is left in the on position, however, power will not be enabled so that the

You'll press '4' on the DIC to enter the configuration menu.

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Under the '4' option, there's four more items:

- 1 configure windows
- 2 configure door locks
- 3 configure accessory power
- 4 restore factory defaults

You'll press '1' on the DIC to access the window configuration options.

Under the '1' options, there's four more items: 1 - disable

- 2 enable and calibrate
- 3 window up strength, normal
- 4 window up strength, strong

You'll press '2' on the DIC to enable and calibrate the windows. This option requires a pin number. The last paragraph of the disclaimer describes the relationship between the PIN number and the serial number. The serial number is on the disclaimer page and on the unit. Please be sure you've read the disclaimer.

To enter the pin number, just key it in on the DIC.

I nstrument Panel Cluster's chime can be heard as a reminder that the lights are still on.

RAP on Triple Unlock: When approaching or entering the car, the remote key FOB can be used to give power to the stock radio by pressing 'unlock' three times. The is the same gesture that can be used to control the lowering of the power windows. This means that the Window Valet <sup>™</sup> can be configured to (a) do nothing, (b)lower the windows, (c) turn on the radio, or (d) both lower the windows and turn on the radio in response to the triple unlock gesture. Pressing 'lock' or pressing 'unlock' a fourth time will disable the Retained Accessory Power.

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Here's what you'll see and hear as you configure the

1) Get into configuration mode by holding 'reset' and

2) Press the '4' button. Tachometer goes to 2K RPM.

3) Press the '1' button. Tachometer goes to 3K RPM,

4) Press the '2' button. Tachometer goes to 6K RPM,

5) Enter the PIN number. (See the disclaimer.). Each

increase by about 10 MPH. If you press a digit and the

If all is accepted, the windows will drop to the bottom

are about to go up. The windows will go up completely.

Once everything is settled, you should be able to raise

and lower the windows with three clicks of the remote

(three 'locks' to raise; three 'unlocks' to lower).

completely. The horn will toot to warn that the windows

time a digit is read, the speedometer needle will

needle doesn't move. Press it again, completely.

pressing 'unlock.' You'll hear a triple chime and see the

windows.

The sequence:

tach move to 1K RPM.

speedometer goes to 10 MPH.

speedometer goes to 40 MPH.

#### **Configuration Menu Structure**

To enter Configuration Menu Mode: Hold the DIC 'reset' while pressing the door panel 'unlock.' Do not do this while driving or while the key is ON. Press 'reset' to exit and abort any incomplete changes.

- 1 Panic! mode
- 2 Display high speed
  - 1 clear high speed from memory
- 3 Activate accessory power 4 - Enter configuration menu
- Enter configuration ment
   1 configure windows
  - \*1 disable
  - 2 enable and calibrate windows [requires PIN]
  - 3 window up strength, normal [requires PIN]
  - 4 window up strength, strong [requires PIN]
- 2 configure door locks
  - \*1 disable
  - 2 active on hand brake
  - 3 active on transmission in PARK
- 4 active for both 2 and 3
- 3 configure accessory power 1 - disable control
  - 2 activate power on exit
  - \*3 activate power on triple unlock via FOB
  - 4 active for both 2 and 3
  - 5 adjust accessory power timeout
    - 1 30 seconds 2 - 5 minutes
    - \*3 15 minutes
- 4 restore factory defaults (factory defaults are marked with \*'s) 1 - restore now

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Other gesture sensitive features (Group II features) are configured in the same way, by choosing '4' from the top level menu and tracing through the outline to the appropriate goal. The Group I features are selected by choosing '1' thru '3' from the top level and these choices have immediate results, such as enabling power, or entering Panic! Mode.

Thank you for choosing Top Down Technologies, Inc.

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