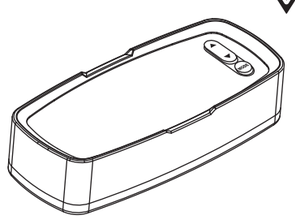


SAFE ECO SPORT PLUG & PLAY

Digipedal.Commander

⚠ The product is designed for 12v vehicle systems only.
Do not install the product on vehicles with 24v or 5v systems.

⚠ When the negative battery terminal is removed, vehicle's interior equipment; For instance clocks and audio components with internal memory, may lose their memory data. Hence, follow up the operation manual of interior equipment to reset data after the completion of the installation of the product.

⚠ Do not install the product where it obstructs driving and the safety devices of vehicle; For instance the airbag system. Improper installation or operation may cause damage to the vehicle and could be dangerous while driving.the vehicle or bring into danger while driving.

Introduction

Vaitrix Digipedal Commander has the newly designed circuitry. The amelioration of circuits and chips not only increase performance but also create a solid and rigid structure. In addition to the newly design, all motoring enthusiasts are able to tune the throttle sensitivity to suit the way they drive.

Vaitrix always meets customers' requirements and provides with the best after-market services. Vaitrix Digipedal Commander can eliminate throttle lag and enhance throttle response!

Item Check List

Multi - function monitor	X1	
Control box	X1	
Double sided sticky pads	X2	
User's manual	X1	

• Specific wiring harness is optional.

Features:

1. Sport mode: suitable for mountain and street driving andracing on track.
2. STD mode: A signal relay that functions as a safety design and activates as an alternation of factory signal setting if the product goes wrong, as well as vehicle voltage display.
3. ECO mode: suitable for in city driving, the lower fuel consumption, the more economic a vehicle is.
4. SP+ mode: driving in a very sensitive throttle response for 10 seconds.
5. 4 modes - 22 steps: Sport mode 13 steps; STD mode 1 step; ECO 7 steps; SP+ 1 step.
6. OEM factory plug easy installation (Plug and Play).
7. User-friendly and individually adjustable.
8. Fixing up poor throttle response and throttle lag.
9. Working on Petrol, Diesel, LPG and Hybrid cars are applicable.
10. Working with factory cruise system.
11. Working on all +12v electronic throttle control systems vehicles.
12. Immobilizer mode sets up under STD mode, by pressing up button for around 5 seconds to set it up.
13. Memory in embedded for power outrages and system crashes.
14. User's setting will not be deleted once the product is removed or vehicle's battery is dead.

Installation Guide

Location – Whenever possible, electronic throttle control box should be located to a suitable area with ambient temperatures and moisture. Always keep the wire harness and controllers away from electromagnetic fields (For instance, mobile antenna) that may affect the performance of electronic throttle controller.

Surface Cleanliness

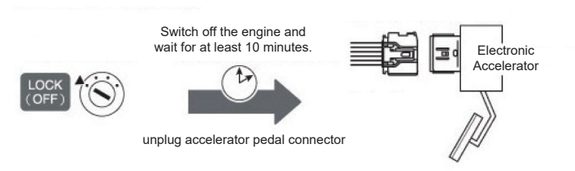
You can apply any kind of detergents to the mounting surface to remove grease and dirt to ensure the cleanliness of mounting surface. Make sure the surface is dry and clean before adhering to the electronic throttle control box and the display by using enclosed double sided sticky pads.

⚠ Notice: please ensure the device is adhered firmly and steadily to the surface to prevent it from falling off and cause damages while driving.

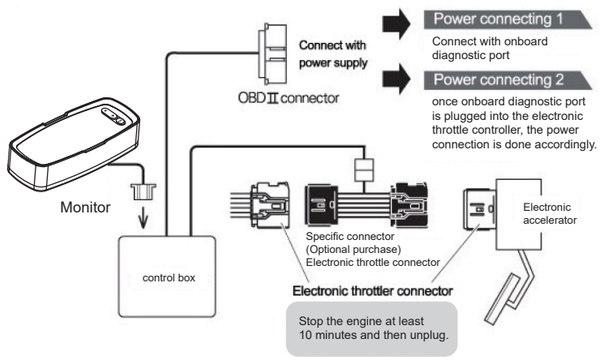
Safety Precaution & Quick Start Guide

As modern European cars are equipped with smart key system, keyless remotes contain a short-range radio transmitter and activate within a certain range of the car to work. Once the driver draws close to vehicle the vehicle's computer will receive radio signals to unlock the vehicle and activate engine management system.

Therefore, in respect of European cars electronic throttle controller installation, the driver must open driver's side door and take the smart key away from the car out of range more than 10 minutes in order to install the product.
Except from European cars, before you get started installation what you have to do is switch off the engine at least 10 minutes and then get down to work.
Please follow up the preparatory steps below to avoid triggering check engine light.

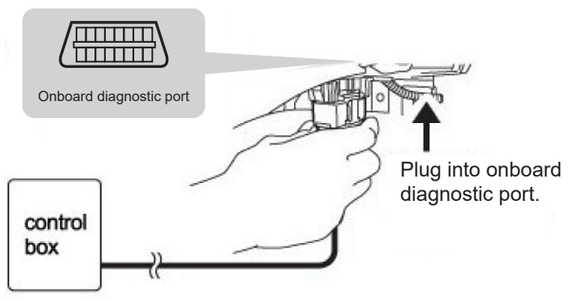


Wiring Harness



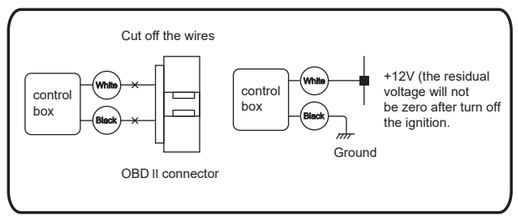
Power Connection 1

Turn off the ignition and plug OBDII connector into onboard diagnostic port.



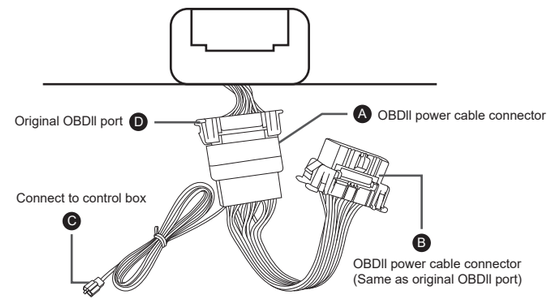
Power Connection 2

There is a white and a black wire on control box OBDII connector. The white is connected to positive pole and the black is connected to negative pole.
Please cut off these two wires first.

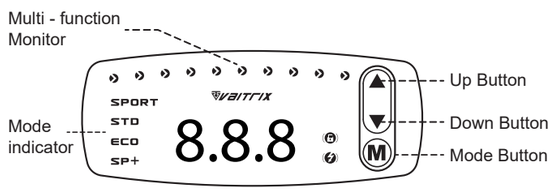


Power Connection 3 (Optional)

OBDII power cable:
Connect OBD II power cable connector Ⓐ to the original OBD II port. The other end of connector Ⓑ can replace the original OBDII port.



Illustrated Outline



Power On / Off

The power supply of electronic throttle controller is based on vehicle's battery. Thus, the device will be turned on & off depending on the engine management system.

Accelerator Pedal Position & Throttle Position Setting

For the first time using, complete preliminary setup is required.

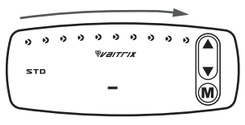
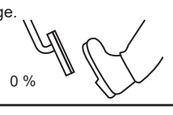
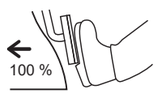
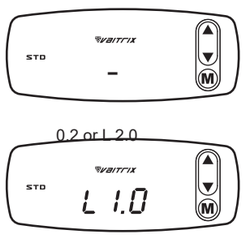
Furthermore, if you remove the product from vehicle and install it onto another vehicle,you have to complete the initial setup process again.

Otherwise, check engine light will come on and the product will not work.

After completing the initial setup process, the product will automatically adapt to the vehicle's ECU and manipulate electronic throttle and accelerator pedal signals.

Quick Start Guide
Setting Procedure

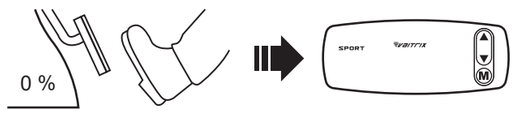
VAITRIX Digipedal Commander initial setting sets up under STD mode. The jumper setting must be under Type 0.
1. Please check cables and connectors thoroughly to confirm they are connected.
2. Turn on the power and shift the gear to P or N without igniting the engine.

Operating Instructions	Multi-Function Monitor
Turn on the power without starting the engine. The preliminary setting is under STD mode only. Make sure the gauge monitor indicates STD before continuing. 	
Hold mode button, the 10 lamps on the gauge monitor will light up one after another. Then, the 10 lamps will be off and meanwhile release the mode button. After this, the gauge monitor will flash L0.2 - L2.0 voltage. 	L 0.2 - L 2.0 
Do not step on the accelerator pedal at this moment. Instead, press the mode button just once to go to next.	
Afterwards, the gauge monitor will flash H with numbers. Next, press down the accelerator pedal to the floor, the numbers on the gauge monitor will build up between H2.6 - H4.8 voltage. 	H 2.6 - H 4.8
Finally, press mode button just once. The completion of the initial setting will display dash symbol "-" on the gauge monitor after pressing the mode button. If the initial setting process went wrong, it would get back to the phase of flashing L over and over till the completion of the initial setting. 	

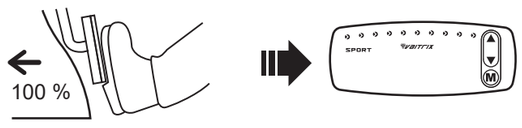
⚠ Notice:
The new product is locked in STD mode and indicates USE on the multi-function monitor. Once the product is used, the display will no longer show USE.

Setting Confirmations

After completing the above setting procedure, please reconfirm before you drive!
Please remain in "SPORT mode" and release the accelerator pedal to make sure you have done correctly.



Please remain in "SPORT mode" and release the accelerator pedal to make sure you have done correctly.



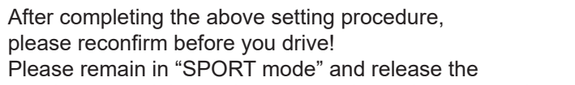
1. Then, press down the accelerator pedal to the floor to make sure the 10 signals are lighting one after another. If not, please check up the setting procedure.

2. There comes another scenario. If you just press down half of the accelerator pedal but the monitor shows 10 signals, you also have to check up the setting procedure again.

3. If you have not pressed down the accelerator pedal at all, the monitor shows 0 LED. If not, you also have to check up the setting process.

Instructional Functions

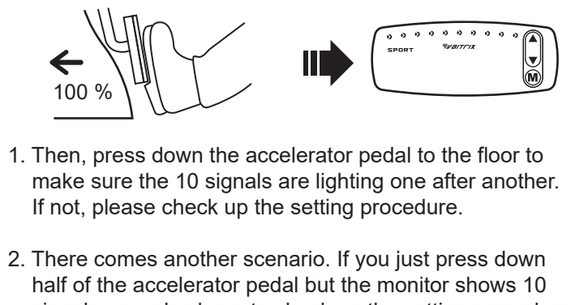
Mode options:
SPORT ; STD ; ECO ; SP+
Turn on the power and start the engine
Press mode button and select one



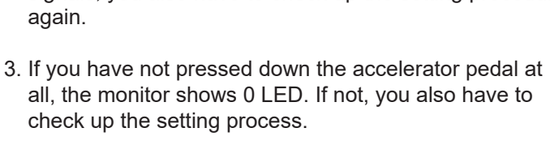
*Mode selection is saved automatically even if the power is off it will restore user's mode selection once the driver turns on the power.

Mode Change & Performance Tuning

Mode changes and performance tunes between SPORT mode and STD mode and ECO mode and SP+ mode.
Performance tuning parameters vary from mode to mode.



Reverse Shut-off Functions



Troubleshooting Methodology

Please refer to the table below to identify the problem

Problems	Causes	Solutions
Turn on the power but the product does not work or display at all.	It might be caused by loosing harness, wires , connectors or poor conductivity at the power source.	Check up the wires, harness and the connectors. Make sure the power supply works.
Check engine light comes on.	It might be caused by unplugging the product's connector before turning off the power.	Use onboard diagnostic tools to diagnose the error codes and eliminate the check engine light.
The monitor displays USE.	Skip the initial setting.	Use onboard diagnostic tools to diagnose the error codes and eliminate the check engine light first. And then follow the initial setting to complete the procedure.
The monitor displays nothing.	It might happen due to the crash or a malfunction to the products. At this moment, the accelerator pedal will work in factory default as the product has a unique safety design and will not have dire consequence to the driver, for example lose control of the accelerator pedal.	Reset the products and go over all the connections and power supply thoroughly. You might have to complete the setting procedure again if necessary.

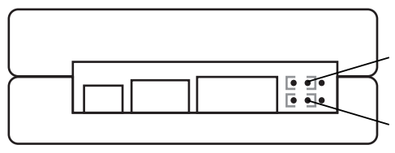
Technical Support

If the check engine light cames on, please follow up the procedure below to erase the check engine light caused by faulty installation and faulty operation:
1. Start and stop the engine several times as usual. Then, the check engine light might be gone automatically.
2. Remove vehicle's battery power supply about 10 minutes. Next, restore the vehicle's battery power supply. The check engine light might be off.
3. Use specific diagnostic OBD2 tools to recall error codes and eliminate the check engine light.

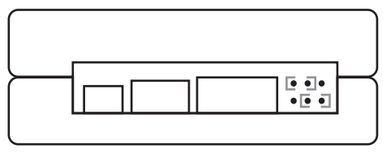
Signal Mode Setting

VAITRIX Digipedal Commander revises the design to fit with an electronic component to control the electronic accelerator pedal dynamic signal stability.

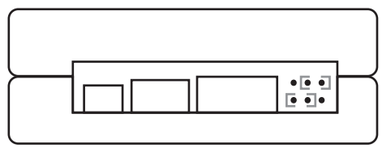
Follow up the initial setting to place jumper caps into pins header to complete the initial setting. There is a dual row 2x3 pins male header on PCB. To put it simply, the operator must locate jumper caps as shown below, otherwise you will result in malfunction of the products.



Type 0: dual rows jumper caps locate on the left hand side as a default setting.



Type 1: row 2 jumper cap moves right hand side one pin header when H number is less than 2.5. row 1 jumper cap remains unchanged.



Type 2: row 1 jumper cap moves right hand side one pin header when H number is more than 2.5. row 2 remains unchanged.

Return & Exchange Policy

If the products are defective within warranty period, you may collect all the products with accessories and send back to us.
(Please note that shipping fee for the returned items should be paid by customers)

Received Something Faulty?

If something is faulty or incorrectly described or different from the sample shown, we will happily meet our legal and good natured obligations which may include providing a replacement product provided the item is returned within 14 days upon receiving the products with proof of purchase.

Shipping costs can't be refunded if there are other items listed on the original invoice that you aren't returning.

Privacy Policy

Your personal information will be used according to our Privacy Policy to process your refund or return.