Throttle Controller

## USER'S MANUAL (Product Number: 3DL-VW/3DL-BM)

Thank you for purchasing PIVOT product.

Please read this manual carefully and keep it for future reference.

If this product is given to another user, make sure to include this User's Manual.







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Please check the contents of the package



## After installation, make sure to carry out "Initial Settings".

After having installed this product, make sure to make settings for your car's special characteristics by carrying out the "Initial Settings" on page 3. If the "Initial Settings" are not carried out, a **Check Engine Light** may go on. Also, the unit will remain in **NORMAL Mode** even if the Mode is switched.

## Worried about Installation?

If you are worried about carrying out wiring or other installation procedures please consult your dealer.

## Only use 3-drive Specialized Harness.

Using another type of harness will cause troubles and failure; use only the 3-drive specialized harness.

## Set to NORMAL Mode upon Removal of Product.

When uninstalling the product, make sure to return it to **NORMAL Mode** before carrying out any work. Reconnecting this product in a different mode may cause the Check Engine Light to come on.

## Modifying this Product is Forbidden.

Under no circumstances should modifications or changes be made to this product. Doing so may cause damage not only to the product, but to the car and the operation of the car in which it is installed.

# Part Names



### Easy Direct-to-Accelerator Connection

Special Euro-Design model for Audi, VW, BMW and MINI comes with specialized harness.

#### Select the kind of response to match your driving.

3-drive · LIGHT enables changing the response for electronic throttle car models and gives you, the driver, the freedom to select the type of acceleration response you need or desire: quick acceleration for speedy driving to slower acceleration for ECO-driving.

### **Basic Features**

#### Easy Installation

Simply connect specialized harness cable to accelerator cable and 6-pin connector to Controller.

#### Low-current Circuitry For Stable Operation

The 7mA circuitry gives stabilized control by preventing trouble from voltage drops.

#### Adjustable Response To Match Driving

Choose from 5 types of response to fit your driving situation. 2 for ECO Mode and 3 for SPORTS Mode.

#### Set To Prevent Malfunction

Making accelerator characteristic settings for each type of model car prevents malfunction and provides high precision control.

#### Digital Control

Digital control prevents trouble from heat and effects from noise.

#### Compact All-in-one Body

Compact all-in-one body is simple to install.

#### **Specialized Harness**

Includes specialized harness for each type of car model.

#### Safety

1. Prevents sudden starts by reverting to same response as under normal setting.

- 2. Returns to Normal in case of faulty wiring or circuitry.
- 3. Discrete 2 Signal Control for Safety.

### Connecting procedure The Wires



The response of SPORTS Mode is good and ECO Mode is bad. Fuel efficiency will be good on ECO mode and bad on SPORTS mode.



Note: Even in ECO Mode, if rapid acceleration is carried out over and over again fuel efficiency will not increase.

#### Examples of Throttle Opening



Note: Fine tune control with 3 steps for SPORTS Mode and 2 for ECO Mode. And In some car models with a Valvematic engine, control is carried out by the exhaust valve rather than the throttle valve.



## Installing The Product



oil and dust.

Note: Use extension cable (separately sold) for BMW and MINI if installing on the steering column cover 

Under Cover



# How to Operate

After completing operations, do not turn the ignition to the OFF position for at least two seconds. The settings will not be saved.

### Switching the Mode

OFF Green Green Blue Blue Red
Ec2 Ec1 SP1 SP2 SP3

Note: Please refer to "Features" on page 2 for characteristic of each setting .

## Troubleshooting

Trouble	Possible Causes	Possible Solutions	
The ignition is set to the ON position but the display will not light up.	Poor connection of <b>Specialized Harness</b> ).	Please reconfirm whether wiring and connections are correct or not.	
The display will not light up by pressing the switch.	Poor connection of <b>Specialized Harness</b> ).	Please reconfirm whether wiring and connections are correct or not.	
	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 3 of this manual).	
A Check Engine Light in vehicle has gone on.	The accelerator connector or Specialized Harness was disconnected with the ignition in the ON position or within 15 minutes after having turned the ignition to the OFF position.	Re-connect the disconnected connector and turn off the Check Engine Light (See page 4 of this manual).	
	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 3 of this manual) and turn off the Check Engine Light (See page 4 ).	
LED will not light up properly during making "Initial Settings".	The "Initial Settings" have not been properly carried	Make the "Initial Settings" (See page 2 of this manual)	
Even if the mode is changed, the changes cannot be felt.	out.	Make the "Initial Settings" (See page 3 of this manual).	
The engine seems to stall easily.	The change ratio under ECO Mode is too great.	Set the change ratio under ECO Mode to a smaller value.	
The mode and/or the setting can not be saved.	The ignition has been turned to the OFF position immediately after having finished the settings or changing the mode.	After having made settings or changing the mode, wait for at least two seconds before turning the ignition to the OFF position.	
The ignition has been turned to the OFF position but the display remain on.	This product is interlocked with the ECU (engine comp may remain on for up to 15 minutes even after the ignitic	buter) power. Depending on the model of car, the display on has been turned to the OFF position; this is normal.	

## How to Turn Off the Check Engine Light.

If the Check Engine Light comes on due to some operational mistake, please follow the directions below to turn it off. 1. Under normal conditions, start and stop the engine several times.



2. If that does not turn off the lamp, disconnect the cable from  $\ominus$  terminal of the battery for about 10 minutes.

3. If that does not turn off the lamp, please consult your local car dealer and have them turn it off.

WARNING Improper use or disregard of these warnings may result in the injury or death of people.	<ul> <li>When making initial settings make sure to stop the engine and place in Parking or Neutral. It is dangerous to carry out these settings while the engine is running.</li> <li>Do not work in areas where there is excessive exhaust. Due to vehicle exhaust emission poisoning or fire may result in a damage to humans.</li> </ul>	• Do not crush the cable. Please be careful that the cable does not get crushed by the seat rail or car door steel plate, nor cut by any sharp steel plate as this may cause a poor connection or an electric short leading to fire or other danger.	or pay pr it is extre • Make su down of with drivi	iving DO NOT operate switches colonged attention to the display; mely dangerous. re that all wiring and fastening the product does not interfere ng nor be done in such a way as poor connections.
CAUTION Improper use or disregard of these warnings may cause injury to persons, damage the product and/or other things.	<ul> <li>PIVOT Corporation accepts no responsibility manner whatsoever, for damage and/or try your vehicle or product, nor for any accide are the result of the misuse of this product.</li> <li>Please confirm that the type of vehicle you install into is listed in the "List of Spec Harnesses by Car Model for 3-drive - LIGHT"</li> <li>When installing this product, we recommen technical knowledge becomes necessary consult a qualified mechanic.</li> </ul>	buble to         settings have been imprope           check Engine Light may go         Do not use electrotap.           wish to         Wiring should be carried ou attached "cut connector" or ing, make sure to securely wiring parts with insulation	rly made a on. t using the by solder- insulate all tape, and	<ul> <li>Please wipe with a soft dry cloth (a lens cloth).</li> <li>Please do not use alcohol o benzine.</li> <li>This may cause damage to the painted surface or cracks in the plastic.</li> <li>Do not, in any manner, process take apart, or make changes to this product.</li> </ul>

(Note) • Our products have already been recognized as our Industrial Property or are in the process of receiving Industrial Property status.
• We plan in the near future to take all possible legal measures to protect against unfair competition from look-alike products using similar designs, regulating characteristics, circuitry and circuitry layout.

• We strictly prohibit the unlicensed use of the PIVOT trademark and the unauthorized use of PIVOT User's Manual.

## Audi & VW Installing the Specialized Harness

# Only disconnect the accelerator connector after having waited at least fifteen minutes from the time that the ignition turned to the OFF position



## BMW & MINI Installing the Specialized Harness

### 1 Turn the ignition to the OFF position and remove the accelerator pedal

To ensure that the specialized harness is installed properly, make sure to only carry out the installation after the accelerator pedal has been disconnected. (See below for details)



Only disconnect the accelerator connector after having waited at least fifteen Accelerator pedal minutes from the time that the ignition turned to the OFF position

After the engine has been stopped for at least fifteen minutes, pull off the accelerator connector by pressing on the hooks on the sides of the connector (female side).





Insert the male side of the specialized harness into the

🕈 Press the connector Insert the female side of the 4 specialized harness into the male side of the accelerator

connector

Disconnect



