### Starter Switch ENGINE STARTER SWITCH

# **USER'S GUIDE**

Thank you for purchasing PIVOT "ENGINE STARTER SWITCH". Please read these instructions carefully before installing or using this device. Please do not lose this user's guide, as you will held liable for the cost of reissuing it. (ES/ESS As of June, 2008 No.1)

# **ENGINE** STARTER SWITCH

Something to

write on plastic ,



with approximately a φ 5 bit

# FEATURES

with Cover ×1

### Versatile Switch : Use to Start Engine and Use Flashing Light for Protection

Resistor ×2

Tape imes 1

#### Press Switch to Start Engine

Starting the engine can be done with the push type starter after the key has been put into the ON position. (this does not apply to standard push type starters)

#### New Random Flashing Light means **Increased Theft Prevention**

When engine is stopped, the random flashing light of the switch button brings about a greater threat than one which blinks at a set interval and hence better prevention.

#### Switch Button Lights Up

While the engine is on the switch button remains lit, and for easy locating when the engine is off the switch remains flashing.

#### Easy to Install

By purchasing a specialized harness for the Turbo Timer it is possible to install simply by connecting the coupler. (Wiring may be necessary for some types of harne

#### Can be installed in a Variety of Places

By making a hole for the switch button, it can be installed in places such as shown below. (A drill is necessary for making the hole)



Normal Flashing

'If no drill is'

available

# **USING THE ENGINE STARTER SWITCH**





### 2 Press switch to start engine



Auto Dimmer

### How to use the Engine Starter

• Can be used in conjunction with starting by key. Wiring method available that allows you to start only by the installed switch

High Speed Flashing

% For details, see Page2 [CONNECTING THE WIRES]

# **CONNECTING THE WIRES**



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## SWITCH INSTALLATION

Place the circular part of the package at the spot where you wish to open a hole and with a marking pen draw an outline of the necessary size of circle.

**1** Decide the Place for Installation

**Note on Installation** ES (Standard Size) = Hole Diameter  $\phi$  22 Outer diameter of nut  $\phi$  25 Necessary size for each type ESS (Small Size) = Hole Diameter  $\phi$  16 Outer diameter of nut  $\phi$  18

#### **2** Opening a Hole



### TROUBLESHOOTING

| Trouble   | Possible Causes  |   |  | Possible Solutions   |
|---|--|---|--|--|
| The starter does not turn over<br>when the key is switched ON.                                | There is a sound.  | Improper ⊕B<br>(Normal Power)<br>wiring connection.   | If directly connected  | <ul> <li>Check the RED wire connections or conditions.</li> <li>Check to make sure of a proper connection to the ⊕B.</li> </ul>                                    |
|   |  |   | If connected with a<br>3- pin coupler  | <ul> <li>Check the wire connections or conditions.</li> <li>Make sure you are using the proper harness for your car model.</li> </ul>                              |
|   |  | Improper ST<br>(Starter Power)<br>wiring connection.  | <ul> <li>Check the WHITE wire connections or conditions.</li> <li>Check to make sure of a proper connection to the ST. (If you have only processed the switch)</li> <li>Check the WHITE wire is connected to the car harness side.</li> <li>If there are 2 ST wires, make sure they have been processed properly.</li> </ul> |  |
|   | There is no sound.   | Improper IG<br>(Ignition Power)<br>wiring connection. | If directly connected  | <ul> <li>Check the YELLOW wire connections or conditions.</li> <li>Check to make sure of a proper connection to the IG.</li> </ul>                                 |
|   |  |   | If connected with a<br>3- pin coupler  | <ul> <li>Check the wire connections or conditions.</li> <li>Make sure you are using the proper harness for your car model.</li> </ul>                              |
|   |  | Improper wiring between Relay Box and switch.         | <ul> <li>Make sure that the WHITE and BLACK wire coming out of the relay box (with female connector) is<br/>connected securely to the male connector of the WHITE and BLACK wire coming from the switch.</li> </ul>  |  |
|   |  | Improper GND wiring connection.                       | <ul> <li>Check the contact of the BLACK wire (GND wire).</li> <li>Make sure there is a connection to place that is earthed.</li> </ul>   |  |
| The starter turns over by pushing the switch when the key is on ACC (engine will not start).  | The YELLOW wire is connected to the ACC (Accessory Power). |   | If directly connected  | • Check to make sure of a proper connection to the IG.   |
|   |  |   | If connected with a<br>3- pin coupler  | <ul> <li>Make sure you are using the proper harness for your car model.<br/>(The wire connected to the YELLOW wire of the 3-pin coupler goes to the ACC</li> </ul> |
| The switch illumination does not come on.   | Improper ⊕B (Normal Power) wiring<br>connection.           |   | If directly connected  | <ul> <li>Check the RED wire connections or conditions.</li> <li>Check to make sure of a proper connection to the ⊕B.</li> </ul>                                    |
|   |  |   | If connected with a<br>3- pin coupler  | <ul> <li>Check the wire connections or conditions.</li> <li>Make sure you are using the proper harness for your car model.</li> </ul>                              |
|   | Improper wiring between Relay Box and switch.              |   | Check the RED and BLACK wire connections or conditions.  |  |
|   | Improper GND wiring connection.                            |   | <ul> <li>Check the contact of the BLACK wire (GND wire).</li> <li>Make sure there is a connection to place that is earthed.</li> </ul>   |  |
| IF THE ILLUMINATION IS 1  | OO BRIGHT AT   | NIGHT   |  |  |
| Connect a brightness-adjusting<br>the brightness.<br>% If there is improper contact, the illu |  |   | Swite  | ch RED RED Relay<br>Either side is possible.   |
| Cut the red cable on the switch<br>side.<br>Cut<br>RED switch wire                            | Peel off the vinyl<br>15mm from the c                      | ut ends. sides sec                                    |  | Be sure to insulate and secure<br>with vinyl electrical tape.  |