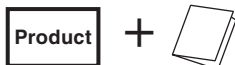


USER'S MANUAL

Thank you for purchasing this PIVOT product.
Please read this manual carefully before installation and use.
Please keep this manual for future reference.

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



SECURITY AUTO TIMER



Contents

| | |
|--|-----|
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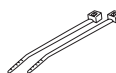
Please check the contents of the package



Unit
[86×21×55(D)mm]



Cut Connectors
Large x3
Small x1



Zip Ties
x2



Double-sided
Tape



User's Manual
(This Book)



- Please be sure to check that this product operates properly before fastening it in the car or drilling holes for installation.
- This product can not be installed in car models which come with a maker-installed push start system.
- This product is designed solely for 12V models and cannot be installed in 24V models.
- The following devices may not work properly while the Turbo Timer is in operation. If this occurs please use the devices after the Turbo Timer has completed operation.
 - Keyless Entry System or Wireless Door Lock System
 - Models equipped with a Security System (Security Alarm System)

WARNING

Improper use or disregard of these warnings may result in the injury or death of people.

- Do not use the Turbo Timer in the following places or under the following conditions.
 - In places with poor ventilation
 - Near flammable items
 - When people or animals are in the car
 - When the parking brake is not fully engaged
 - When an AT model car is a gear other than P (Parking) or an MT model is in other than N (Neutral)
- Do not wire the cables in places susceptible to shorts, such as below.
 - Near moving parts of the brake or steering wheel
 - Near sharp metal parts that may sever the cable
- Please be sure to remove the minus (-) battery cable terminal from the battery before wiring.
- Do not run the car while the Turbo Timer is in operation.
- Do not use if small children may be left alone in car while parked.

CAUTION

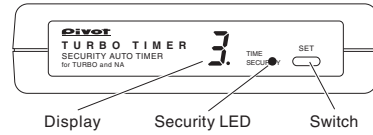
Improper use or disregard of these warnings may cause injury to persons, damage the product and/or other things.

- When installing this product, we recommend that if technical knowledge becomes necessary please consult your dealer.
- This product is not waterproof; do not install to places susceptible to splashing water.
- Make sure to securely insulate all direct connection with tape or other means.
- In models equipped with an Auto-Light system, make sure to use only after turning Auto-Light to OFF. If the setting is at AUTO, the lights will remain ON even after the engine has been turned off. This may cause the battery to go dead.
- Do not, in any manner, process, take apart, or make changes to this product.
- Do not use electrotap.

Features

- Fully automatic turbo timer with built-in security system.
- Auto setting of idling time in accordance to running time.
- After stopping the engine, a flashing blue LED helps guard your car. But upon any shock or impact to the body this switches to an intimidating high-power high-speed light for a determined amount of time.
- Countdown to operation and alarm notification.
- Possible to make desired idling time settings.
- Timer allows up to 15-minute warm-up running for air conditioner etc...
- Two 360W high capacity relays guarantee stable operation.
- The 21mm-thin compact body.

Part Names



SPECS

- For DC12V vehicles
- Average Power Consumption in Standby
Security Mode=8mA
Power Saving Security Mode=3mA

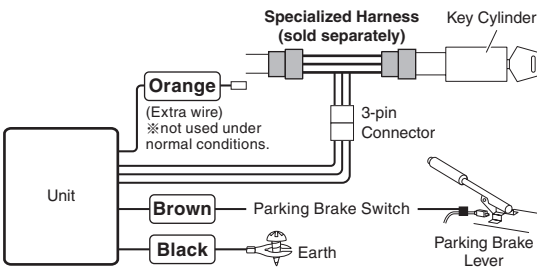
Connecting The Wires

For safety purposes remove the battery cables from the minus terminals before carrying out the wiring.

❗ Select one of the following two wiring methods.

❗1 The Model Specific Turbo Timer Harness (sold separately) makes installation a snap.

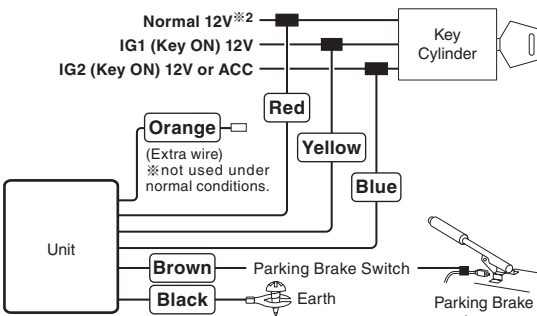
Wiring Method A Wiring Method Used With Specialized Harness ❗1



■: Use Cut Connector (Small)

- ① Remove the connector connected to the Key Cylinder and in the middle connect the **Specialized Harness (sold separately)**.
- ② Connect the 3-pin connector from the Unit to the 3-pin connector on the specialized harness.
- ③ Fasten down the **Black** wire using a screw on the car body that carries earth.
- ④ Using one of the supplied connectors (or by soldering) securely connect the **Brown** wire to the wiring of the parking brake switch.
(Refer to **[Reference 1] How to use the Cut Connectors** and **[Reference 2] Checking the Parking Brake Connection Spot** at the bottom of page)

Wiring Method B Direct Wiring Method (Without Specialized Harness)



■: Use Cut Connector (Large) ■: Use Cut Connector (Small)

- ① Cut off the 3-pin connector from the Unit.
- ② While referring to the diagram to the left, connect the **Red**, **Yellow** and **Blue** wires to the specified places.
- ③ Fasten down the **Black** wire using a screw on the car body that carries earth.
- ④ Using one of the supplied connectors (or by soldering) securely connect the **Brown** wire to the wiring of the parking brake switch.
(Refer to **[Reference 1] How to use the Cut Connectors** and **[Reference 2] Checking the Parking Brake Connection Spot** at the bottom of page.)

❗2 If there are two 12V wires, connect to the thicker of the two.

3-pin connector wiring **Red** Normal 12V **Yellow** IG1 (Key ON) 12V **Blue** IG2 (Key ON) 12V If there is no IG2, use ACC

[Reference 1] How to use the Cut Connectors

| | | |
|---|--|--|
| 1 Peel off of the vinyl cover at connection. | 2 Peel off of the vinyl cover at the end of the product's wire. | 3 Wrap around both wire coils. |
| 4 Close tightly with cut connector. | 5 Insulate with vinyl tape. | ❗ When crimping, please use crimpers or use pliers to bend and then solder together. |

[Reference 2] Checking the Parking Brake Connection Spot

With the key switch ON (but not the engine) pull up to cut voltage and push down to engage 12V power.

- With brake pulled up: 0V
- With brake down: 12V



❗ In AT models, instead of connecting to the parking brake, a connection can be made to the foot brake.

- With foot off the brake: 0V
- With brake pressed down: 12V

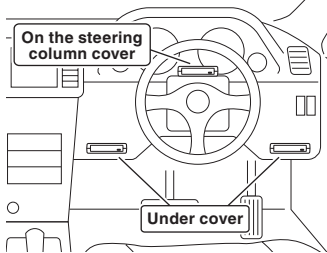
❗ Same for the parking brake pedal.

Fastening The Product

Installing The Unit

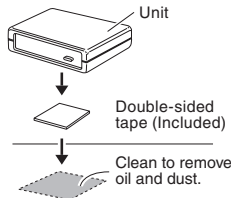
As shown in the diagram below, use the double-sided tape to fasten the unit into positions not usually affected by water.

(Example of Installation)



(How to Install)

Affix with double-sided tape to a position which is easy to see and which allows for easy operation.



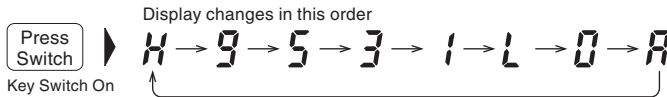
⚠ Please be sure to bundle away all wires with tape, etc...

While in use if wires become free they may interfere with driving and cause accidents.

Also, pulling on wires may cause them to short and is extremely dangerous.

Settings

Time Settings

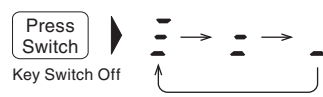


| | | | |
|-------------------------------------|----------------------|-----------------------|-----------------|
| H = 15 minutes (For Warm-up) | 5 = 5 minutes | 1 = 1 minutes | 0 = OFF |
| 9 = 9 minutes | 3 = 3 minutes | L = 30 seconds | A = Auto |

Stopping The Security Mode



Switching The Security Mode

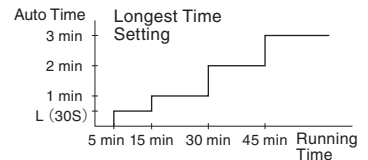
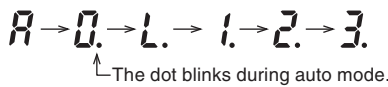


| | |
|------------|--|
| --- | = Security Mode (Cautionary blinking + Intimidating blinking) |
| - - | = Power Saving Security Mode (Cautionary blinking only) |
| - | = Security Mode OFF (All blinking OFF) |

Explanation Of Function Settings

Auto Mode

Auto setting of idling time in accordance to running time from key switch ON.



Manual Mode

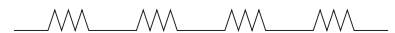
Possible to make desired idling time settings.

Security Mode

When key switch is OFF, the LED helps guard your car. But upon any shock or impact to the body this switches to an intimidating high-power and high-speed light for a determined amount of time (about 5 seconds).

Cautionary Blinking

The LED will continually blink 3 times at regular intervals.

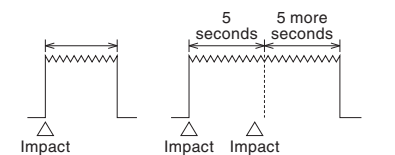


Intimidating Blinking

Upon any shock or impact to the body the LED blinks high-power and highly-speed light for a determined amount of time.

NOTE 1. The intimidating blink will not be activated for 30 seconds after the key is switched OFF to allow you to get out of the car.

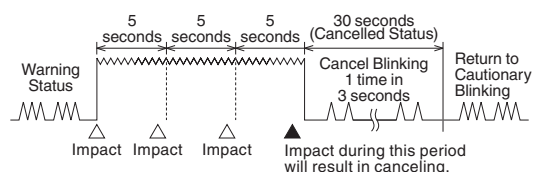
2. If the vibration of getting into to the car causes the intimidating blink to be activated, turn the key to ON to stop the blinking.



Cancel Blinking

If there is a reoccurring impact such as heavy rain, the intimidating blink will be automatically shut off for a period of time to save battery power.

NOTE: If during cancelled status, a strong impact occurs, the cancelled status will be continued from 30 seconds after the impact.



Opening Display

When the key is turned ON, the display will show the number of intimidating blinking cycles from the time the key was turned OFF until switched ON.

(Example) 0 → 3 → 2 = 32 times

- NOTE 1. The number of cycles is not the number of blinks, but 1 cycle represents the number of times the blinking continued for 5 seconds due to impact or shock.
2. The cycle number will depend on the area where your car is parked, with the number becoming larger in places where there is heavy traffic or heavy rain. If there is no need for the intimidating blink, please change the setting to a different mode.

Warning about Mistaken Take Off

1. If emergency brake is released when timer is in operation the safety mechanism will be activated stopping the engine and "P" will be shown in the display.
2. If the Turbo Timer does not work, when the key is turned OFF and "P" is shown in the display, the emergency brake has not been pulled up far enough. Make sure to activate the emergency brake.

Troubleshooting

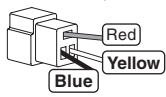
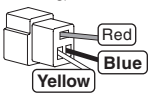
(Troubleshooting for some special car models)

The following devices may not work properly while the Turbo Timer is in operation. If this occurs please use the devices after the Turbo Timer has completed operation.

1. Keyless Entry System or Wireless Door Lock System
2. Models equipped with a Security System (Security Alarm System)

Cars with Automatic Light Controller

When using the Timer in a car equipped operating with an auto light control system, the lights may not turn off when using the Timer with auto light turned on even after the engine has stopped. If this is the case, when using the Timer make sure to not use Auto Mode for the light control system.

| Trouble | Possible Causes | Possible Solutions |
|--|---|---|
| The key switch is set to ON but the display will not light up. | An improper harness for your car model has been used. The Red , Yellow , Blue or Black wires may have been improperly wired or there is a poor connection. | Please reconfirm whether wiring and connections are correct or not. |
| The Turbo Timer does not light up. | An improper harness for your car model has been used. The Red , Yellow , Blue or Brown wires may have been improperly wired or there is a poor connection. The Turbo Timer setting is set to OFF. (If the Turbo Timer is set to [AUTO].) Engine operation time is short. | Please reconfirm whether wiring and connections are correct or not. Turn the key switch to OFF after running the engine at least 5 minutes. |
| The display lights up, but the engine stops. | An improper harness for your car model has been used. The Red , Yellow or Blue wires may have been improperly wired or there is a poor connection. The polarity of the special harness is incorrect. ● In some special harnesses the IG1 (Yellow) and IG2 (Blue) positions are reversed. If this is the case, try switching the Yellow and Blue wires of the 3-pin connector coming out from the unit. Note, that doing this in other car models will render the Timer inoperative, so please return the wires to their original connection positions. | Please reconfirm whether wiring and connections are correct or not. Switch the Yellow and Blue wires on the 3-pin connector coming out from the unit. How to Re-connect Pull out the wire while pressing in (Figure as seen from the terminal side) (Present Condition)  (After Fixing)  |
| | The engine stops if the during idling torque is too weak. | In order to increase the torque, increase the engine rotation to 1200-1500 rpm and turn off the key switch to start the Turbo Timer operation. |

"P" is shown in the display and the Turbo Timer does not work.

The emergency brake has not been pulled up far enough. Make sure to activate the emergency brake.

- ※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.