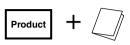
USER'S MANUAL (Product Number:) 3DA

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



Cruise & Throttle for Full Control: Acceleration, Deceleration and Resume

3 drive · α THROTTLE & AUTO CRUISE



Contents

Before Using ······ 1–2	2
Contents	2
Product Features	3
Features	2
Part Names / Display Items	3
WARNING / CAUTION	3
procedure 1 Connecting The Wires 4-5	5
Brake Switch · · · · · · · · · · · · · · · · · · ·	1
Car Speed Signal / Earth / Reverse Signal /	
Specialized Harness	5
procedure 2 Installing The Product	ŝ

procedure 3 Initial Settings (Degree of Acceleration Setting) · · · · ·	7
procedure 4 Speed Pulse Settings ·····	8
Test Drive ····	8
Basic Operation	8
How to Operate 9–	
Operating the Throttle Controller Operating the AUTO CRUISE	9
Set / Deactivate / Change the Speed Setting	10
Resume / Adjust Level·····	11
Troubleshooting	12



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 7. 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.

This product can not be installed in car models which come with standard auto-cruise control.

Set to NORMAL Mode upon Removal of Product.

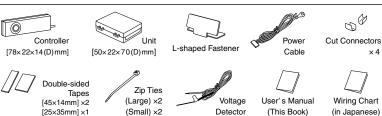
When uninstalling the product, make sure to return it to nor (NORMAL) Mode before carrying out any work. Reconnecting this product in a different mode may cause the Check Engine Light to come on.

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.

The

Please check the contents of the package





Features

Cruise & Throttle for Full Control: Acceleration, Deceleration and Resume!

AUTO CRUISE











Cruise & Throttle for Full Control: Acceleration, Deceleration and Resume Can operate the switches for SET, Acceleration, Deceleration, Resume, and Deactivate

Performance Control Advancements made have improved on speed stability.

Safety Safety First Design including instant deactivation upon braking.

Settable Speed 30-140km/h

Change Speed Setting Use the product's switch or car's accelerator pedal to change speed setting. (Each press of the switch changes setting by 2km/h, or hold down switch to make larger changes)

Comparison of Fuel Consumption

Run in AUTO CRUISE	(60 km/h)	121 cc
Variable Speed Driving using Accelerator 1	(55-65 km/h)	151 cc
Variable Speed Driving using Accelerator 2	(50-70 km/h)	183 cc

These figures were obtained through a driving test and may be different from results on actual road conditions

• WAGON R (MH23S) / Road grade: Upward slope of approx. 1.5 degrees / Running distance: 1.5 km

Note: Variable speed driving was obtained by accelerating up and down around the set speed.

7 23 sec

29 sec

19 sec

THROTTLE CONTROLLER









SPORTS & ECO Accelerator response can be adjusted to one of three modes (12 steps): SPORTS (7 steps), ECO (5 steps), and NORMAL.

Acceleration Monitor Open times of the accelerator (amount of depressing) are displayed and it is convenient for the Eco-driving etc.

Comparison of Fuel Consumption Comparison of Acceleration Time Normal □ 107 cc Normal 157 cc

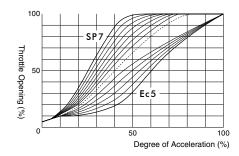
SP7: MAX. SPORTS Mode Ec5: MAX. ECO Mode

58 cc

Ec5

• HONDA STEP WGN (RG1) / Running distance: 0-400 m / Degree of acceleration: 30%

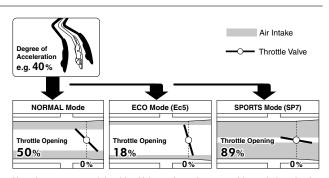
Examples of Changes in Throttle Opening



SP7: MAX. SPORTS Mode Ec5: MAX, ECO Mode

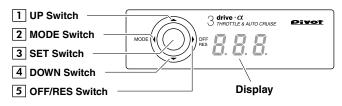
····· NORMAL

• SUZUKI SWIFT (ZC31S)



Note: In some car models with a Valvematic engine, control is carried out by the exhaust valve rather than the throttle valve.

Part Names



Turning	off the	Display
iuiiiiig	011 1110	Diopius

This product is interlocked with the ECU (engine computer) power. Depending on the model of car, the display may remain on for up to 15 minutes even after the ignition has been turned to the OFF position; this is normal.

No.	AUTO CRUISE OFF	Driving in AUTO CRUISE
1	Adjusting the Change Ratio for each Mode	Raise speed setting
2	For Switching Modes Alarm Sound ON/OFF	Adjusting Level
3	Set AUTO CRUISE	Re-set to current speed
4	Adjusting the Change Ratio for each Mode	Lower speed setting
5	Resume AUTO CRUISE	Deactivating AUTO CRUISE

Display Items

Display Items

Diopidy itomo	
Display	Details
5P1-5P7	SPORTS Mode (higher number = higher response)
Ec 1 - Ec 5	ECO Mode (higher number = lower response)
nor	NORMAL (Normal Performance)
<i></i>	Degree of Acceleration
Rcc	AUTO CRUISE in Operation
H 1/Lo	Raise and lower AUTO CRUISE speed setting
r E 5	Resuming AUTO CRUISE
ЬЯс	Reverse (when in SPORTS Mode only)
	Cancel AUTO CRUISE (car speed)
- b -	Cancel AUTO CRUISE (brake)

Display for Settings

Display	Details
c R r	Initial Settings Mode
L 🗆	Position when accelerator is not pressed down
$\mathcal{H} \square \square$	Position when accelerator is fully pressed down
5 E Ł	Settings Completed
PLS	Speed Pulse Setting Mode
<i>P</i>	Speed Pulse Number
L - []	Adjust AUTO CRUISE Level
on/off	Alarm Sound ON/OFF

A WARNING

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

- 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.
- 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.
- 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.
- While driving DO NOT operate switches or pay prolonged attention to the display; it is extremely dangerous.
- Make sure that all wiring and fastening down of the product does not interfere with driving nor be done in such a way as to cause poor connections.

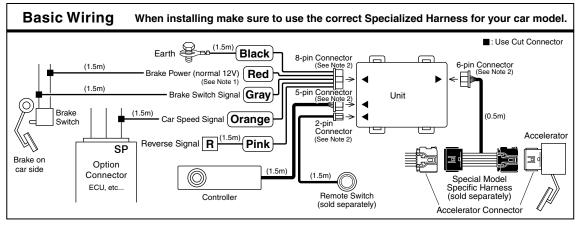
⚠ CAUTION

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

- PIVOT Corporation accepts no responsibility, in any manner whatsoever, for damage and/or trouble to your vehicle or product, nor for any accidents that are the result of the misuse of this product.
- Please confirm that the type of vehicle you wish to install into is listed in the "List of Specialized Harnesses by Car Model for 3-drive 'a".
- When installing this product, we recommend that if technical knowledge becomes necessary please consult a qualified mechanic.
- If the device is improperly installed or settings have been improperly made a Check Engine Light may go on.
- •Do not use electrotap.
- Wiring should be carried out using the attached "cut connector" or by soldering, make sure to securely insulate all wiring parts with insulation tape, and confirm that no wires are sticking out.
- Please wipe with a soft dry cloth (a lens cloth).
- Please do not use alcohol or benzine. This may cause damage to the painted surface or cracks in the plastic.
- Do not, in any manner, process, take apart, or make changes to this product.



Connecting The Wires



Note 1: Please make sure to connect the red cable to the brake switch, to cause auto-cruise to be deactivated when there is trouble with the car fuses. Note 2: After inserting the connector, pull lightly to make sure that it is securely locked.



- When connecting to the car side wires, do not only use "electrotap" as this may result in a poor electrical connection. Please use the supplied "cut connectors" or solder the wires together and make sure to use insulation tape to securely insulate the wire connection.
- •The Brake Switch Connectors will differ depending upon the car model, grade and year, so please sure to check the design in the "Wiring Chart".
 •Remove the battery cables from the minus terminals before carrying out the wiring.

Brake Switch (Brake Power and Brake Switch Signal)

Red

To Brake Power (normal 12V)

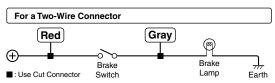
Gray

To Brake Switch Signal



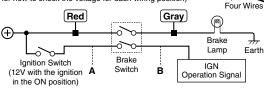
 There may be two or four(or more) wires coming from the Brake Switch Connector. Check the wiring position in the "Wiring Chart" and after testing the voltage, carry out the wiring.

 After having completed the wiring confirm that the Brake Lamp is working properly.



For a Four(or more)-Wire Connector

When there are four(or more) wires, do not wire to positions A and B as shown below. (See below for how to check the voltage for each wiring position)



: Use Cut Connector

How to Test (Refer to page 5 [Reference 1] "How to use the Voltage Detector")

- Turn the ignition to OFF. Please put gear into P (Parking) or N (Neutral).
- Check the terminal for each of the connections as designated in the separate sheet "Wiring Chart".

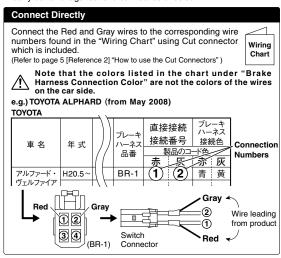
	Not Press Down on Brake Pedal		
Red	🌦 (12V)	🌦 (12V)	Brake Power
Gray	O (0v)	🍥 (12V)	Brake Switch Signal

Note: If there are four(or more) wires, do not wire the remaining (OFF 0V).

Select a Wiring Method

Select from either "Connect Directly" or "Connect using Brake Harness" and carry out directions as stated.

- After having tested voltage at the positions to be wired, connect as directed.
- In case of the car model which is blank of Wire Numbers or Brake Harness Connection Color of "Wiring Chart", please make sure to carry out a voltage test and connect as directed.





Car Speed Signal

Orange

Confirm the positions on the "Wiring Chart" and then connect using Cut Connectors.

Wiring Chart (Refer to [Reference 2] "How to use the Cut

Note: Some MITSUBISHI, SUZUKI and NISSAN models require a separate speed pulse adapter.

Connectors" below.)

Connect only to the cables on the car side as directed. (Do not wire the speed signal to the CAN-BUS adaptor.)

Earth

with earth Black terminal

Fasten to a screw of a metal part which is earthed.



Note: Painted screws and screws connected to plastic parts are not earthed; make sure to connect only to a place which is earthed.

Reverse Signal

By wiring to reverse, it is possible when in SPORTS Mode to automatically switch to NORMAL Mode when the gear is put into R (Reverse). Also, during this time it will become impossible to set to AUTO CRUISE.

Note: When put into reverse, the degree of acceleration is small and quick acceleration will not occur; it is not necessary to wire for reverse. This does not operate when in ECO Mode or NORMAL Mode.

Pink

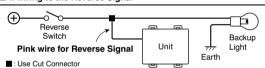
Gear Position

When in \mathbf{R} (Reverse) = 12V, other positions = 0V

(How to Test) With the ignition in the ON position (engine not operating) put gear into reverse.

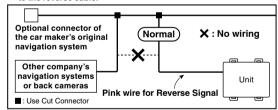
(How to Wire) Cut the black tube of the wire tip and connect referring the diagrams below.

If wiring to the Reverse Signal



If wiring to the optional connector of the car maker's original navigation system

When using a different company's navigation system do not wire to the reverse cable.



(Check Wiring) If in SPORTS Mode, when the reverse signal is input the display will read bac and the unit will switch to NORMAL Mode.

After inserting the connector, pull lightly to make sure that it is securely locked.

Power Cable

niq-8 Connector

Connect to the side of the unit

Controller

5-pin Connector Connect to the side of the unit.

Special Model Specific Harness (sold separately)

6-pin Connector

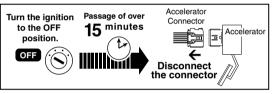
Connect to the side of the unit.



Щ

Only disconnect the accelerator connector after having waited at least 15 minutes from the time that the ignition was turned OFF.

Depending on the type of vehicle, if the connector is disconnected before the ECU power is switched OFF, the Check Engine Light may go on. (If the Light comes on: Refer to Page 12, "How to Turn Off the Check Engine Light")



Note: For details about connecting the specialized harness, please refer to the user's manual that came with that harness.



2-pin Connector

Connect to the side of the unit.



Product number : LSW

Wiring for when you wish not use AUTO CRUISE

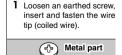
Red Normally 12V (OK for other than brake)

Black Farth

Gray Orange Do not connect to anywhere

 In some car models, voltage detector which is supplied with product doesn't work because of the current capacity shortage. Please use analog multimeter and others in this case.

[Reference 1] How to use the Voltage Detector (supplied with product)

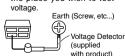


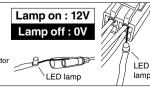
Wire tip

Note: As an earthing screw, only use a screw that is fastened to a metal part. Painted screws and screws connected to plastic parts become insulated and cannot carry electricity.

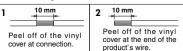


2 Connect the tip of the LED to the place you wish to test

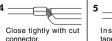




[Reference 2] How to use the Cut Connectors









When crimping, please use crimpers or use pliers to bend and then solder together.



Installing The Product



Do not use magnetic holders, such as for a smartphone, to prevent malfunction.

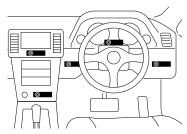


Please be sure to bundle away all wires with tape not to get damaged by any steel plate or screws as this may cause short circuit.

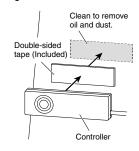
Installing The Controller

Install the Controller to a position which is easy to see.

(Example of Installation)

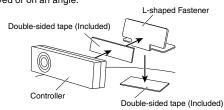


Fastening to a Flat Place



Using the L-shaped Fastener

By using the L-shaped Fastener that comes with this product, it is possible to install the unit on the dashboard even if it is curved or on an angle.

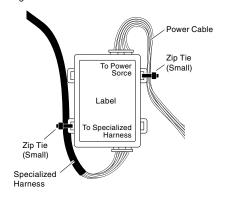






Cable processing of the Unit

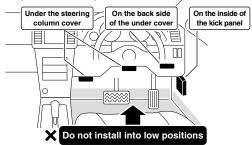
Fasten the cables not to disconnect connectors by getting caught on cables.



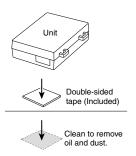
Installing The Unit

As shown in the diagram below, fasten the unit into positions not usually affected by water.

(Example of Installation)

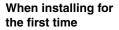


Fastening to a Flat Place



procedure 3

Initial Settings (Degree of Acceleration Setting) Make sure to carry out these settings.





Initial Settings

When installing into a different car



Initial Settings

- This operation sets the car's accelerator characteristics into the controller unit.
- •If the "Initial Settings" are not carried out, the unit will remain in NORMAL Mode even if the Mode is switched.
- · If this settings have been improperly made a Check Engine Light may go on.

Before making the "Initial Settings"



1. Make settings only after having completed all wiring (connector installation).

2. Make settings with the *ignition in the ON position (engine not running)* and the gear in P (Parking) or N (Neutral).

[Making the Settings]



: Controller Display Area, () contains additional explanation

Turn the ignition ON. (Engine not running)

nor will

appear.





(NORMAL Mode)



If nor does not appear, press the MODE switch until nor appears.

Press the UP switch for 10 seconds or longer to change the display to \mathbb{O} .













(Count down from 5 to 0 after the cRr blink.)

When $\[0 \]$ appears release 3 the UP switch.





Accelerator pedal is not

pressed down. (Release the accelerator to 0%)



(Voltage Display: e.g., 1.5V. The values shown in the display will vary depending on the type of car.)

With the accelerator at 5 0%, press the SET switch.







Pedal is completely pressed down.

> (Press in on the accelerator to 100%)



(Voltage Display: e.g., 4.5V. The values shown in the display will vary depending on the type of car.)

With the accelerator at 100%, press the SET switch.





appear.

• SEŁ will

/!\ If Err is displayed

If after the \mathcal{E}_{rr} is shown the display returns to as shown in $\boxed{4}$ (L 15 or so on), it means that the degree of acceleration settings have not been confirmed properly. Re-do the settings from step 4.

Press down on the accel-8 erator pedal until 100 appears.





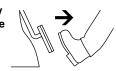






Once the display 9 changes to 100 release the accelerator.





10 Setting Completed

If the device is re-installed into a different vehicle, make sure to carry out these settings again.

After having finished settings and the battery or wires have been disconnected it is not necessary to carry out "Initial Settings".

Check the Settings

(If the display is incorrect start again from step 2 above.)





Note: Depending on characteristics of the accelerator or on how the accelerator is stepped on the display may read 895 (95%).

3



Speed Pulse Settings

For details about Pulse settings, see the "Wiring Chart".

Turn tha ignition to ON. 1 (Engine not running) · nor will nor appear.

START

Without braking. press down twice

If nor does not appear, press the MODE switch until nor appears.

Press the DOWN switch 2 for 3 seconds.



• PL S will appear.



(NORMAL Mode)

· The pulse number will appear.



Press the UP / DOWN switches to select 4 the desired pulse setting.

(Factory Setting)

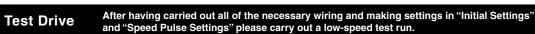


If no operation is 5 carried out for 3 seconds, the display will begin blinking.

If no operation is carried out for 5 seconds, the display will change from blinking to NORMAL Mode.



Make sure to set the car's speed pulse settings correctly. If the pulse settings are incorrect, the AUTO CRUISE setting may be impossible even within the usual setting range of 30 to 140 km/h.



Please carry out the test drive in a safe spacious area away from pedestrians and traffic.

Please make sure to carefully read this manual and understand how to operate the unit before taking a test run.

Engine 1 START Start.

AUTO CRUISE kicks in at the set speed. Off Recappears.



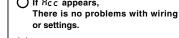
 If -b- appears, Poor connection of Gray wire. See page 4-5. Improper wiring of Pink wire. See page 5.



Start the Test Run. 2 (35-40 km/h)

SET switch.

3



• If --- appears, The pulse setting is incorrect. See page 8. Improper wiring of Orange wire. See page 5.



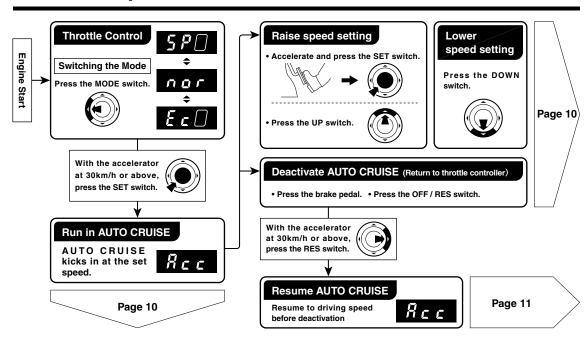
X If \Re_{CC} does not appear, Check the items to the right. Press the

· If the display does not change despite pressing the switch.

The "Initial Settings" are incorrect See page 7.

Deactivating AUTO CRUISE • Press the brake pedal. • Press the OFF / RES switch.

Basic Operation



Operating the Throttle Controller

Switching Response Levels

Make settings for response in each Mode.

Switching the Mode





The Mode will change with each pressing of the MODE switch.





Higher Response Normal Conditions

ECO Mode

Lower Response

Note: For safety, when changing modes always go through nor (NORMAL) one time.

About the Relay sound

When switching to nor for safety reasons the relay will go into operation and you will hear a clicking sound.

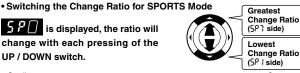
Adjusting the Change Ratio for each Mode

When making adjustments to the change ratios, begin at the lowest setting and slowly make changes while continually checking acceleration.

is displayed, the ratio will change with each pressing of the UP / DOWN switch.

Smallest

Greatest



Greatest Change Ratio

Switching the Change Ratio for ECO Mode

is displayed, the ratio will change with each pressing of the UP / DOWN switch.



Change Ratio

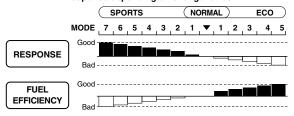
Smallest

Eε

✓ Saving Settings

All settings are saved even after the ignition has been turned OFF. However, if the ignition is turned OFF in 2 seconds or less after the last setting operation was carried out, the settings will not be saved.

[Reference 1] Examples of changes in fuel consumption and response depending on change ratios



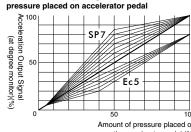
Note: In ECO Mode, because response is less than the standard fuel efficiency can be improved. However, if rapid acceleration is purposefully carried out fuel efficiency will be reduced.

The changes in response will be greater as the vehicle's power is greater.

[Reference 2] Basic Control Features

The changes throughout each Mode will be controlled smoothly without perceptible steps.

Acceleration output signal based on amount of



the accelerator pedal (%)

Degree of Acceleration Monitor

Displays the amount of pressure placed on the accelerator pedal. (output signal) [15-100%, 5% unit]

Degree of Acceleration Monitor shows the rate of acceleration output to the ECU where 0 represents the pedal not being pressed in and 100 equals when the pedal is fully pressed down.

Note: When in ECO Mode, even if the accelerator is stepped on a full 100% the output signal will only be 80%.

Depending on characteristics of the accelerator or on how the accelerator is stepped on the display may read up to 95%. (When in SPORTS Mode and NORMAL Mode only)



Rcc

While in AUTO CRUISE (no degree display)

USE 1 Check acceleration during ECO driving

To ensure reduced fuel consumption during acceleration the degree of acceleration should be between 15% and 25%. To further improve results use ECO Mode when wishing to save fuel



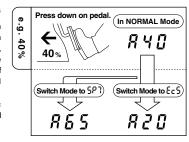
USE 2 | Check acceleration during regular driving

Please use to check the degree of acceleration for any type of driving, not just ECO Mode.

USE 3 | Check control status

With the ignition in the ON position and under NORMAL Mode press in the pedal until it reaches 40% (RYD), if the Mode is changed to 597 the display should read 65% (885) and if placed in Ec5 the display should change to 20% (R20).

[See the above Graph of "Basic Control Features"] Note: The actual display may differ slightly.



Operating the AUTO CRUISE

After setting to AUTO CRUISE, you can drive automatically at the set speed even without pressing down on the accelerator pedal.

- AUTO CRUISE is nothing more than an aid to assist drivers. Please make sure to follow all speed limits and practice safe driving.
- AUTO CRUISE can be dangerous if activated in the following conditions; do not use under these conditions.
 - 1. On slippery Roads (snow and ice) 2. In traffic jams
- 3. Around sudden curves and/or slopes
- Upon climbing a sudden slope, it is not possible to accelerate beyond the capability of the engine. Moreover, when going down a sudden decline the engine can not force deceleration other than from the engine brake; please use the brake when necessary.
- To avoid an increase in engine revolutions, do not put the gear in N (neutral) or any other gear other than D (drive) while in AUTO CRUISE.

[Settable Speed]

Approximately 30-140 km/h

Due to differences in some standard meters, the setting will fall in the range of between 35 and 145 km/h.



Set

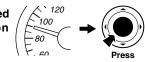




Mode Display.



When at the desired speed press in on the SET switch.



Note 1: Please try to set when there is as little change in speed as possible.

Note 2: When setting during a sudden hill climb the car will run more stably after decelerating a little.

When setting make sure not to quickly depress the accelerator.

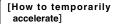
About the Relay sound (clicking noise)

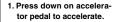
If you set under NORMAL Mode (nor) you will hear a noise from the relay working. If this bothers you, please set while in SPI or Ecl.

5 AUTO CRUISE kicks in at the set speed

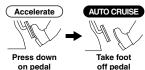
Do not depress the accelerator for any other reason than for acceleration.







2. By taking foot off the pedal will return to AUTO CRUISE speed as in 5.



Deactivate

AUTO CRUISE can be deactivated using any of the following:

Press the OFF switch.



Press the brake pedal.





This deactivates AUTO CRUISE and returns to the throttle controller

[Auto-Deactivation]

· When the speed declines to 15 km/h or less

> Raise the Speed

Lower the

Speed

Change the Speed Setting

It is possible to use of the following methods to change the speed setting while driving in AUTO CRUISE.

Raise Speed Setting by Accelerating



(While Running in AUTO CRUISE Mode)

Press down on the accelerator pedal to reach the speed you wish to set.



Press the SET switch.



AUTO CRUISE kicks 3 in at the set speed.



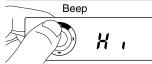
Change Speed Setting by Pressing UP / DOWN Switch

Яcс

(While Running in AUTO CRUISE Mode)

- Press the UP switch.
- H appears and the setting can be raised.
- Press the DOWN switch.
 - Lo appears and the setting can be lowered.

Each press is 2 km/h Press twice and the change is 4 km/h, press 3 times and the change is 6 km/h.



Upon each press you will hear a "beep" and the speed will be raised or lowered by 2 km/h. The speed will be raised or lowered according to the number of times the switch is pressed and will automatically drive at that speed.

Press down until you reach the desired speed



After one beep, the sound will change to consecutive beeps. Speed will be raised or lowered while the switch is being pressed down and will automatically run at the speed when the switch is released.

Note: If the alarm sound has been turned OFF, the beep will not sound.

This cannot reduce speed more than using the engine brake; when going down steep slopes speed may be unable to be lowered.





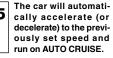








rES appears for 5 seconds and then changes to Acc. r E 5 ⇒ Rcc





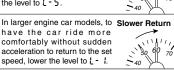
Note: For safety purposes, if after deactivation of AUTO CRUISE, the car runs at 10km /h or less (meter shows 15 km/h or less) the speed setting will be reset to 0 and AUTO CRUISE will not resume.

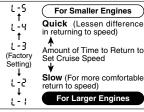
Adjust Level

Depending on the size of your car's engine the amount of time it takes to return to the set cruising speed after a hill climb or other such condition will differ. By adjusting the level it is possible to change the amount of time for returning to the set cruising speed to be faster or slower to match your car's performance and desired ride. Level adjustments may differ depending on car model or driving conditions; please use the following as a simple guideline and adjust to fit your needs. (The factory default setting is L-3)



Quicker Return In car models with smaller engines, to have the car return to the set speed faster raise the level to L-5.





[Setting Examples] L-5 ALTO 1-4 MARCH, FIT, DEMIO, WAGON R VOXY, PRIUS, CARAVAN, SERENA, INSIGHT, STEP

WGN, SWIFT

VELLFIRE, CROWN, HIACE, ELGRAND, LAGACY, MPV, RX-8

Operating switches or checking the display while driving may cause accidents; please use with the utmost consideration for safety.

[Making the Settings]

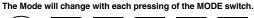














Troubleshooting

Concerning Basic Operations and Car Problems

Trouble	Possible Causes	Possible Solutions
The ignition is set to the ON position but	Brake fuse is burned out.	Please reconfirm whether wiring and connections
the display of the Main Unit will not light up. OR the display goes OFF while in use.	The Red and Black wire may have been improperly wired or there is a poor connection.	are correct or not.
	Poor connection of (5-pin Connector), (8-pin Connector) and (6-pin Connector).	
	Poor connection of Specialized Harness .	
	Specialized Harness being used is incorrect.	
With the ignition switched to ON, only the dot appears.	The Black wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.
A Check Engine Light 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 OFF.	Re-connect the disconnected connector and turn off the Light (See page 12 of this manual).
2, ¹ 1,0/ ₂	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 7 of this manual) and turn off the Light (See page 12).
	The product was in a mode other than NORMAL Mode when removed from a car and installed into a different car.	After returning it to NORMAL Mode, carry out the "Initial Settings" (See page 7 of this manual) and turn off the Light (See page 12).
It will not go into "Initial Settings" or "Speed Pulse Settings".	The Orange wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.
	The car is being driven.	Carry out after stopping the car.
While making "Initial Settings" an Err appears in the display.	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 7 of this manual).

Concerning the Throttle Controller

Trouble	Possible Causes Possible Solutions	
Even if the Mode is changed, the changes cannot be felt.	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 7 of this manual).
The Mode and/or the setting of change ratios can not be saved.	The ignition has been turned to the OFF position immediately after having finished the setting of change ratios or changing the Mode.	After having made settings of change ratios or changing the Mode, wait for at least two seconds before turning the ignition to the OFF position.
While in SPORTS X & R C	The Pink wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.
into reverse the display does not show bac.	The unit is connected to the reverse wire of a navigation system from another company.	Carry out Wiring to Reverse (See page 5 of this manual).
S.S. G.I.C.	The backup lights have been changed to LED lamps.	Replace the backup lights with the car maker's original lights. Do not carry out wiring for Reverse Gear.

Concerning AUTO CRUISE

Concerning ACTO Choise				
Trouble		Possible Causes	Possible Solutions	
-b- appears in display and AUTO CRUISE will	ь-	The Gray and Pink wires may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.	
not operate.		The brake lamp bulbs have been changed to LED lamp bulbs.	Replace with standard brak	e lamp bulbs.
appears in display and AUTO CRUISE will		The Orange wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not and that the speed is within the	
not operate.		The setting is outside the allowable range.	setting range.	
		"Speed Pulse Settings" have not been properly carried out.	Make the "Speed Pulse Settings" (See page 8 of this manual).	
The display does not chang when the SET switch is p and AUTO CRUISE will not o	ressed	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 7 of this manual).	
AUTO CRUISE is automatically deacti- vated and the display	No sound	The Gray wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct	Note: To use AUTO CRUISE again, first turn the ignition to the OFF position and after you have made sure that the display has gone off, start the engine again.
switches to throttle controller.	Hear	The Orange and Pink wires may have been improperly wired or there is a poor connection.	or not.	
	"beep" sound	The "Initial Settings" have not been properly carried out.	Make the "Initial Settings" (See page 7 of this manual).	
		It will be automatically deactivated when speed drops to 15 km	n/h or less.	
When climbing a hill, the speed is much slower than the set cruise speed.		The AUTO CRUISE Level has been adjusted to a lower level (lowest is £- 1).	Carry out "Adjusting AUTO CRUISE Level" (See page 11 of this manual).	
		The AUTO CRUISE Level has been adjusted to a higher level (highest is £ - 5).		

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 minus terminal of the battery for about 10
- 3. If that does not turn off the lamp, please consult your local car dealer and have them turn it off.



How to turn OFF the Alarm Sound

If you wish to turn off the alarm sound while making AUTO CRUISE settings, press the MODE switch for a long time.

(When engine has been started) Long press on MODE switch







Note: This setting cannot be changed while running in AUTO CRUISE. If you wish to return to having the alarm sound, carry out the same procedure again.

Even if the alarm sound has been turned to OFF, it will come back ON when carrying out "Initial Settings" or "Speed Pulse Settings".

- (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.